

Valves



Installation material



Filters Sight glasses



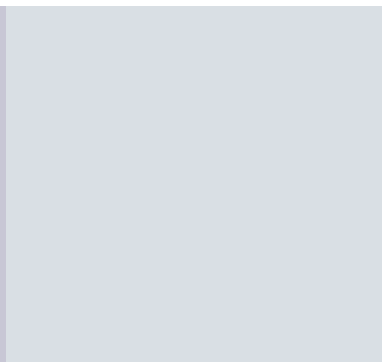
Tank equipment



Product recovery system (Pigging system)



Additions



valves



I. Valves

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1.1 Butterfly valves

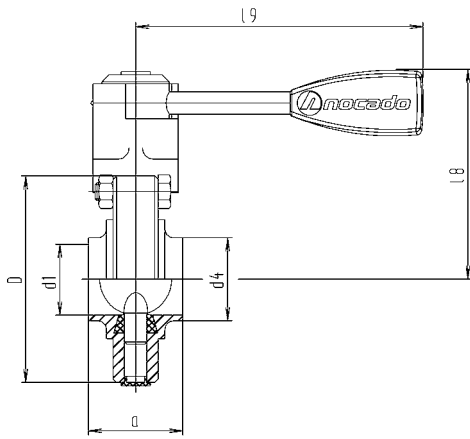
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I.1 Butterfly valves

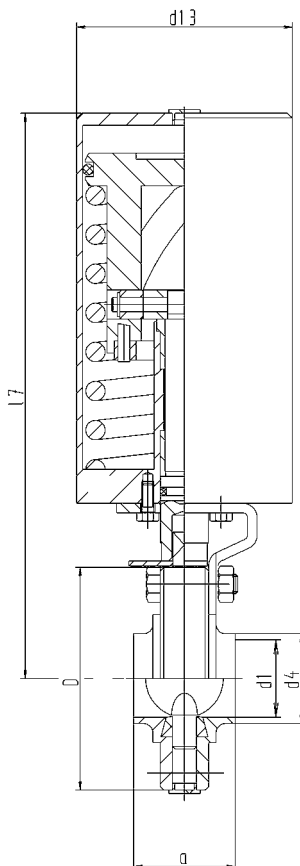
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butterfly valve, weld ends (for tubing acc. DIN 11850 line 2) (622N)



DN	a	d1	d4	D	18	19	weight (kg)
15	40	16	19	87	89	102	1,350
20	40	20	23	87	89	102	1,350
25	40	26	29	87	89	132	1,350
32	42	32	35	92	91	132	1,420
40	50	38	41	97	94	132	1,520
50	50	50	53	110	100	132	1,800
65	50	66	70	127	109	132	2,180
80	60	81	85	142	124	165	3,950
100	64	100	104	162	135	165	4,800
125	112	125	129	200	162	216	8,100
150	124	150	154	230	177	216	10,300

butterfly valve, weld ends, air/spr. (NC)(for tub. acc. DIN 11850 line 2) (622N)



DN	a	d1	d4	D	d13	17	weight (kg)
15	40	16	19	87	89	231	4,300
20	40	20	23	87	89	231	4,300
25	40	26	29	87	89	231	4,300
32	42	32	35	92	89	234	4,320
40	50	38	41	97	89	236	4,480
50	50	50	53	110	89	242	4,790
65	50	66	70	127	89	251	5,210
80	60	81	85	142	89	260	6,610
100	64	100	104	162	89	270	7,460
125	112	125	129	200	133	369	16,040
150	124	150	154	230	133	384	18,300

butterfly valve, weld ends (for tubing acc. DIN 11850 line 2) (622N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
15	○ 161.06.11E.0068	○ 161.06.11H.0068	○ 161.06.11S.0068	○ 161.06.11V.0068
20	○ 161.07.11E.0068	○ 161.07.11H.0068	○ 161.07.11S.0068	○ 161.07.11V.0068
25	○ 161.08.11E.0068	○ 161.08.11H.0068	○ 161.08.11S.0068	○ 161.08.11V.0068
32	○ 161.09.11E.0068	○ 161.09.11H.0068	○ 161.09.11S.0068	○ 161.09.11V.0068
40	○ 161.10.11E.0068	○ 161.10.11H.0068	○ 161.10.11S.0068	○ 161.10.11V.0068
50	○ 161.11.11E.0068	○ 161.11.11H.0068	○ 161.11.11S.0068	○ 161.11.11V.0068
65	○ 161.12.11E.0068	○ 161.12.11H.0068	○ 161.12.11S.0068	○ 161.12.11V.0068
80	○ 161.14.11E.0068	○ 161.14.11H.0068	○ 161.14.11S.0068	○ 161.14.11V.0068
100	○ 161.15.11E.0068	○ 161.15.11H.0068	○ 161.15.11S.0068	○ 161.15.11V.0068
125	○ 161.16.11E.0068	○ 161.16.11H.0068	○ 161.16.11S.0068	○ 161.16.11V.0068
150	○ 161.17.11E.0068	○ 161.17.11H.0068	○ 161.17.11S.0068	○ 161.17.11V.0068

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, weld ends (for tubing acc. DIN 11850 line 2) (622N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
15	○ 161.06.12E.0068	○ 161.06.12H.0068	○ 161.06.12S.0068	○ 161.06.12V.0068
20	○ 161.07.12E.0068	○ 161.07.12H.0068	○ 161.07.12S.0068	○ 161.07.12V.0068
25	○ 161.08.12E.0068	○ 161.08.12H.0068	○ 161.08.12S.0068	○ 161.08.12V.0068
32	○ 161.09.12E.0068	○ 161.09.12H.0068	○ 161.09.12S.0068	○ 161.09.12V.0068
40	○ 161.10.12E.0068	○ 161.10.12H.0068	○ 161.10.12S.0068	○ 161.10.12V.0068
50	○ 161.11.12E.0068	○ 161.11.12H.0068	○ 161.11.12S.0068	○ 161.11.12V.0068
65	○ 161.12.12E.0068	○ 161.12.12H.0068	○ 161.12.12S.0068	○ 161.12.12V.0068
80	○ 161.14.12E.0068	○ 161.14.12H.0068	○ 161.14.12S.0068	○ 161.14.12V.0068
100	○ 161.15.12E.0068	○ 161.15.12H.0068	○ 161.15.12S.0068	○ 161.15.12V.0068
125	○ 161.16.12E.0068	○ 161.16.12H.0068	○ 161.16.12S.0068	○ 161.16.12V.0068
150	○ 161.17.12E.0068	○ 161.17.12H.0068	○ 161.17.12S.0068	○ 161.17.12V.0068

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, weld ends, air/spr. (NC)(for tub. acc. DIN 11850 line 2) (622N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
15	○ 162.06.11E.0068	○ 162.06.11H.0068	○ 162.06.11S.0068	○ 162.06.11V.0068
20	○ 162.07.11E.0068	○ 162.07.11H.0068	○ 162.07.11S.0068	○ 162.07.11V.0068
25	○ 162.08.11E.0068	○ 162.08.11H.0068	○ 162.08.11S.0068	○ 162.08.11V.0068
32	○ 162.09.11E.0068	○ 162.09.11H.0068	○ 162.09.11S.0068	○ 162.09.11V.0068
40	○ 162.10.11E.0068	○ 162.10.11H.0068	○ 162.10.11S.0068	○ 162.10.11V.0068
50	○ 162.11.11E.0068	○ 162.11.11H.0068	○ 162.11.11S.0068	○ 162.11.11V.0068
65	○ 162.12.11E.0068	○ 162.12.11H.0068	○ 162.12.11S.0068	○ 162.12.11V.0068
80	○ 162.14.11E.0068	○ 162.14.11H.0068	○ 162.14.11S.0068	○ 162.14.11V.0068
100	○ 162.15.11E.0068	○ 162.15.11H.0068	○ 162.15.11S.0068	○ 162.15.11V.0068
125	○ 162.16.11E.0068	○ 162.16.11H.0068	○ 162.16.11S.0068	○ 162.16.11V.0068
150	○ 162.17.11E.0068	○ 162.17.11H.0068	○ 162.17.11S.0068	○ 162.17.11V.0068

matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

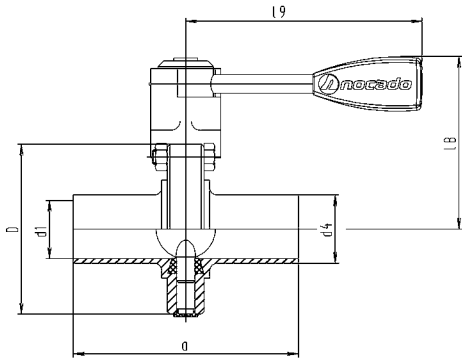
butterfly valve, weld ends, air/spr. (NC)(for tub. acc. DIN 11850 line 2) (622N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
15	○ 162.06.12E.0068	○ 162.06.12H.0068	○ 162.06.12S.0068	○ 162.06.12V.0068
20	○ 162.07.12E.0068	○ 162.07.12H.0068	○ 162.07.12S.0068	○ 162.07.12V.0068
25	○ 162.08.12E.0068	○ 162.08.12H.0068	○ 162.08.12S.0068	○ 162.08.12V.0068
32	○ 162.09.12E.0068	○ 162.09.12H.0068	○ 162.09.12S.0068	○ 162.09.12V.0068
40	○ 162.10.12E.0068	○ 162.10.12H.0068	○ 162.10.12S.0068	○ 162.10.12V.0068
50	○ 162.11.12E.0068	○ 162.11.12H.0068	○ 162.11.12S.0068	○ 162.11.12V.0068
65	○ 162.12.12E.0068	○ 162.12.12H.0068	○ 162.12.12S.0068	○ 162.12.12V.0068
80	○ 162.14.12E.0068	○ 162.14.12H.0068	○ 162.14.12S.0068	○ 162.14.12V.0068
100	○ 162.15.12E.0068	○ 162.15.12H.0068	○ 162.15.12S.0068	○ 162.15.12V.0068
125	○ 162.16.12E.0068	○ 162.16.12H.0068	○ 162.16.12S.0068	○ 162.16.12V.0068
150	○ 162.17.12E.0068	○ 162.17.12H.0068	○ 162.17.12S.0068	○ 162.17.12V.0068

matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, weld ends for orbital weld. (for tub. acc. DIN 11850 line 2)

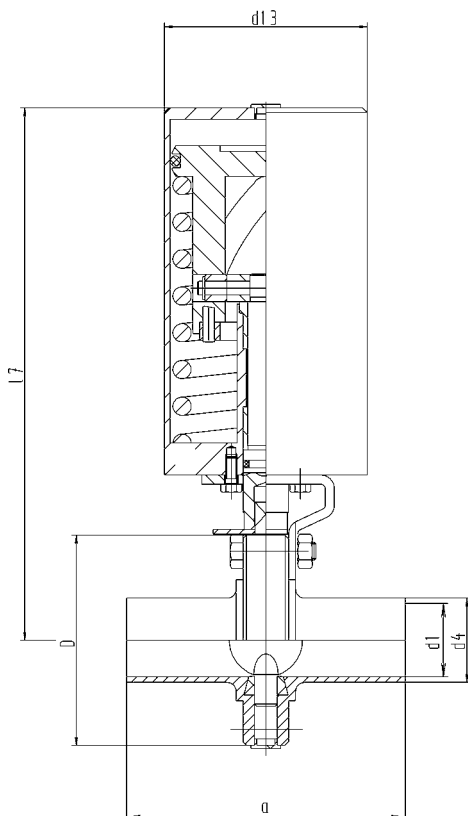
nocapius



DN	a	d1	d4	D	l8	l9	weight (kg)
25	125	26	29	87	89	132	1,430
32	125	32	35	92	91	132	1,520
40	125	38	41	97	94	132	1,640
50	125	50	53	110	100	132	1,950
65	125	66	70	127	109	132	2,455
80	160	81	85	142	124	165	4,408
100	170	100	104	162	135	165	5,353

butterfly valve, weld ends f. orbital weld. air/spr. (NC)(for tub. acc. DIN 11850 line 2)

nocapius



DN	a	d1	d4	D	d13	l7	weight (kg)
25	125	26	29	87	89	231	4,383
32	125	32	35	92	89	234	4,490
40	125	38	41	97	89	236	4,600
50	125	50	53	110	89	242	5,060
65	125	66	70	127	89	251	5,630
80	160	81	85	142	89	260	7,060
100	170	100	104	162	89	270	8,050

butterfly valve, weld ends for orbital weld. (for tub. acc. DIN 11850 line 2)

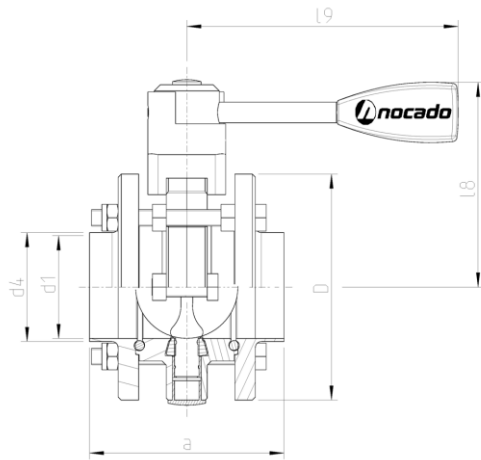
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25	○ 161.08.12E.0132	○ 161.08.12H.0132	○ 161.08.12S.0132	○ 161.08.12V.0132
32	○ 161.09.12E.0132	○ 161.09.12H.0132	○ 161.09.12S.0132	○ 161.09.12V.0132
40	○ 161.10.12E.0132	○ 161.10.12H.0132	○ 161.10.12S.0132	○ 161.10.12V.0132
50	○ 161.11.12E.0132	○ 161.11.12H.0132	○ 161.11.12S.0132	○ 161.11.12V.0132
65	○ 161.12.12E.0132	○ 161.12.12H.0132	○ 161.12.12S.0132	○ 161.12.12V.0132
80	○ 161.14.12E.0132	○ 161.14.12H.0132	○ 161.14.12S.0132	○ 161.14.12V.0132
100	○ 161.15.12E.0132	○ 161.15.12H.0132	○ 161.15.12S.0132	○ 161.15.12V.0132

butterfly valve, weld ends f. orbital weld. air/spr. (NC)(for tub. acc. DIN 11850 line 2)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0132	○ 162.08.12H.0132	○ 162.08.12S.0132	○ 162.08.12V.0132
32	○ 162.09.12E.0132	○ 162.09.12H.0132	○ 162.09.12S.0132	○ 162.09.12V.0132
40	○ 162.10.12E.0132	○ 162.10.12H.0132	○ 162.10.12S.0132	○ 162.10.12V.0132
50	○ 162.11.12E.0132	○ 162.11.12H.0132	○ 162.11.12S.0132	○ 162.11.12V.0132
65	○ 162.12.12E.0132	○ 162.12.12H.0132	○ 162.12.12S.0132	○ 162.12.12V.0132
80	○ 162.14.12E.0132	○ 162.14.12H.0132	○ 162.14.12S.0132	○ 162.14.12V.0132
100	○ 162.15.12E.0132	○ 162.15.12H.0132	○ 162.15.12S.0132	○ 162.15.12V.0132

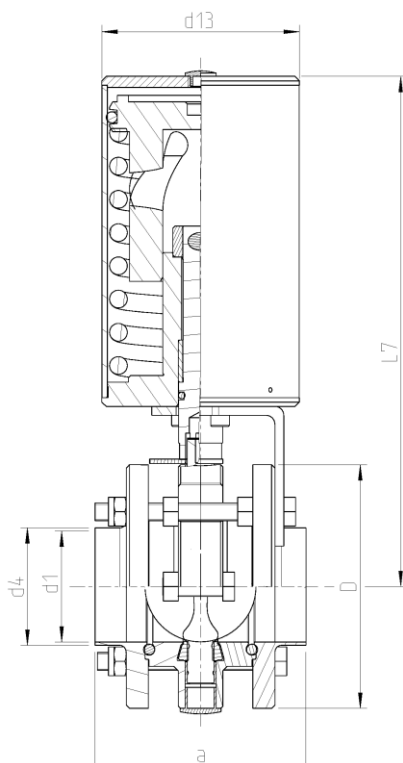
available in version spring/air (normally closed) and air/air

Butterfly valve DIN, between flanges EHEDG, weld ends, handle 90° (tubes acc. to DIN 11850-line 2) [660E]



DN	a	d1	d4	D	l8	l9	weight (kg)
25	87	26	29	87	89	132	2,430
32	87	32	35	92	91	132	2,570
40	97	38	41	97	94	132	2,780
50	97	50	53	110	100	132	3,350
65	97	66	70	127	109	132	4,070
80	133	81	85	142	124	165	7,400
100	133	100	104	162	135	165	8,800
125	165	125	129	200	162	216	15,100
150	175	150	154	230	177	216	18,400

Butterfly valve DIN, between flanges EHEDG, weld ends, actuator normally closed (NC) (for tubes acc. to DIN 11850-line 2) [660E]



DN	a	d1	d4	D	d13	l7	weight (kg)
25	87	26	29	87	89	231	5,380
32	87	32	35	92	89	234	5,540
40	97	38	41	97	89	236	5,740
50	97	50	53	110	89	242	6,340
65	97	66	70	127	89	251	7,100
80	133	81	85	142	89	260	10,060
100	133	100	104	162	89	270	11,490
125	165	125	129	200	133	369	23,040
150	175	150	154	230	133	384	26,400

Butterfly valve DIN, between flanges EHEDG, weld ends, handle 90° (for tubes acc. DIN 11850-line 2) [660E]

DN	304L EPDM bright Article no.	304L HNBR bright Article no.	304L VMQ bright Article no.	304L FKM bright Article no.
25	● 161.08.11E.0085	● 161.08.11H.0085	● 161.08.11S.0085	● 161.08.11V.0085
32	○ 161.09.11E.0085	○ 161.09.11H.0085	○ 161.09.11S.0085	○ 161.09.11V.0085
40	● 161.10.11E.0085	● 161.10.11H.0085	● 161.10.11S.0085	● 161.10.11V.0085
50	● 161.11.11E.0085	● 161.11.11H.0085	● 161.11.11S.0085	● 161.11.11V.0085
65	● 161.12.11E.0085	● 161.12.11H.0085	● 161.12.11S.0085	● 161.12.11V.0085
80	● 161.14.11E.0085	● 161.14.11H.0085	● 161.14.11S.0085	● 161.14.11V.0085
100	● 161.15.11E.0085	● 161.15.11H.0085	● 161.15.11S.0085	● 161.15.11V.0085
125	○ 161.16.11E.0085	○ 161.16.11H.0085	○ 161.16.11S.0085	○ 161.16.11V.0085
150	○ 161.17.11E.0085	○ 161.17.11H.0085	○ 161.17.11S.0085	○ 161.17.11V.0085

Without handle: at 3rd digit, number 9 in article no. (z. B. 169.11.11E.0085)
 Matt surface: at 6th digit, number 2 in article no. (z. B. 161.11.22E.0085)

Butterfly valve DIN, between flanges EHEDG, weld ends, handle 90° (for tubes acc. DIN 11850-line 2) [660E]

DN	316L EPDM bright Article no.	316L HNBR bright Article no.	316L VMQ bright Article no.	316L FKM bright Article no.
25	● 161.08.12E.0085	● 161.08.12H.0085	● 161.08.12S.0085	● 161.08.12V.0085
32	○ 161.09.12E.0085	○ 161.09.12H.0085	○ 161.09.12S.0085	○ 161.09.12V.0085
40	● 161.10.12E.0085	● 161.10.12H.0085	● 161.10.12S.0085	● 161.10.12V.0085
50	● 161.11.12E.0085	● 161.11.12H.0085	● 161.11.12S.0085	● 161.11.12V.0085
65	● 161.12.12E.0085	● 161.12.12H.0085	● 161.12.12S.0085	● 161.12.12V.0085
80	● 161.14.12E.0085	● 161.14.12H.0085	● 161.14.12S.0085	● 161.14.12V.0085
100	● 161.15.12E.0085	● 161.15.12H.0085	● 161.15.12S.0085	● 161.15.12V.0085
125	○ 161.16.12E.0085	○ 161.16.12H.0085	○ 161.16.12S.0085	○ 161.16.12V.0085
150	○ 161.17.12E.0085	○ 161.17.12H.0085	○ 161.17.12S.0085	○ 161.17.12V.0085

Without handle: at 3rd digit, number 9 in article no. (z. B. 169.11.11E.0085)
 Matt surface: at 6th digit, number 2 in article no. (z. B. 161.11.22E.0085)

Butterfly valve DIN, between flanges EHEDG, weld ends, actuator normally closed (NC) (for tubes acc. DIN 11850 line-2) [660E]

DN	304L EPDM bright Article no.	304L HNBR bright Article no.	304L VMQ bright Article no.	304L FKM bright Article no.
25	● 162.08.11E.0085	● 162.08.11H.0085	● 162.08.11S.0085	● 162.08.11V.0085
32	○ 162.09.11E.0085	○ 162.09.11H.0085	○ 162.09.11S.0085	○ 162.09.11V.0085
40	● 162.10.11E.0085	● 162.10.11H.0085	● 162.10.11S.0085	● 162.10.11V.0085
50	● 162.11.11E.0085	● 162.11.11H.0085	● 162.11.11S.0085	● 162.11.11V.0085
65	● 162.12.11E.0085	● 162.12.11H.0085	● 162.12.11S.0085	● 162.12.11V.0085
80	● 162.14.11E.0085	● 162.14.11H.0085	● 162.14.11S.0085	● 162.14.11V.0085
100	● 162.15.11E.0085	● 162.15.11H.0085	● 162.15.11S.0085	● 162.15.11V.0085
125	○ 162.16.11E.0085	○ 162.16.11H.0085	○ 162.16.11S.0085	○ 162.16.11V.0085
150	○ 162.17.11E.0085	○ 162.17.11H.0085	○ 162.17.11S.0085	○ 162.17.11V.0085

Design of valve with actuator NO (normally open) or NS (non static, air/air) available.
 Matt surface: at 6th digit, number 2 in article no. (z. B. 162.11.22E.0085)

Butterfly valve DIN, between flanges EHEDG, weld ends, actuator normally closed (NC) (for tubes acc. DIN 11850 line-2) [660E]

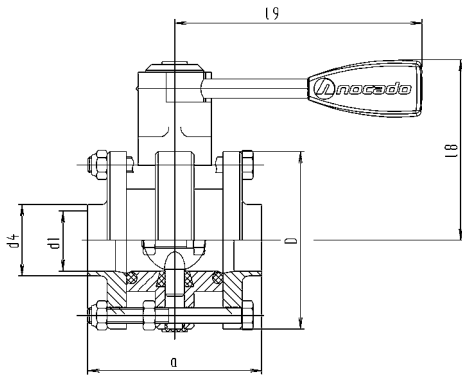
DN	316L EPDM bright Article no.	316L HNBR bright Article no.	316L VMQ bright Article no.	316L FKM bright Article no.
25	● 162.08.12E.0085	● 162.08.12H.0085	● 162.08.12S.0085	● 162.08.12V.0085
32	○ 162.09.12E.0085	○ 162.09.12H.0085	○ 162.09.12S.0085	○ 162.09.12V.0085
40	● 162.10.12E.0085	● 162.10.12H.0085	● 162.10.12S.0085	● 162.10.12V.0085
50	● 162.12.12E.0085	● 162.12.12H.0085	● 162.12.12S.0085	● 162.12.12V.0085
65	● 162.12.12E.0085	● 162.12.12H.0085	● 162.12.12S.0085	● 162.12.12V.0085
80	● 162.14.12E.0085	● 162.14.12H.0085	● 162.14.12S.0085	● 162.14.12V.0085
100	● 162.15.12E.0085	● 162.15.12H.0085	● 162.15.12S.0085	● 162.15.12V.0085
125	○ 162.16.12E.0085	○ 162.16.12H.0085	○ 162.16.12S.0085	○ 162.16.12V.0085
150	○ 162.17.12E.0085	○ 162.17.12H.0085	○ 162.17.12S.0085	○ 162.17.12V.0085

Design of valve with actuator NO (normally open) or NS (non static, air/air) available.
 Matt surface: at 6th digit, number 2 in article no. (z. B. 162.11.22E.0085)

Old version with gaskets acc. to DIN 11851-G between butterfly valve and outer flanges on request.

butterfly valve DIN between flanges o-form

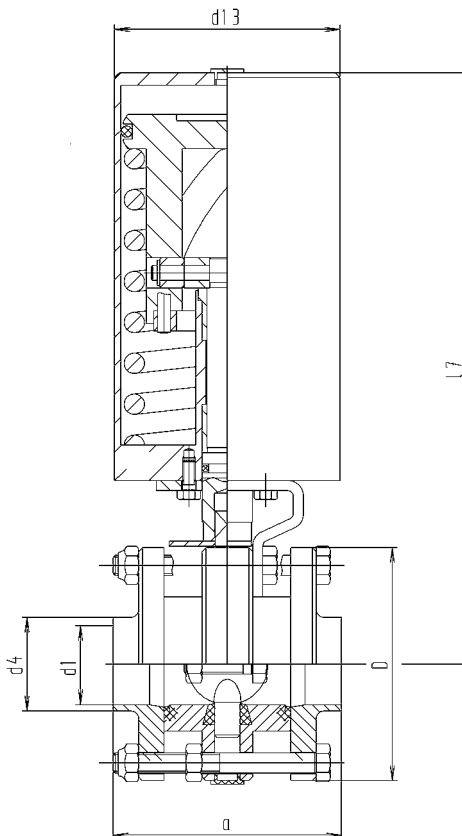
nocapius



DN	a	d1	d4	D	l8	l9	weight (kg)
25	90	26	29	87	89	132	2,430
32	90	32	35	92	91	132	2,570
40	100	38	41	97	94	132	2,780
50	100	50	53	110	100	132	3,350
65	100	66	70	127	109	132	4,070
80	136	81	85	142	124	165	7,400
100	136	100	104	162	135	165	8,800
125	168	125	129	200	162	216	15,100
150	178	150	154	230	177	216	18,400

butterfly valve DIN between flanges o-form air/spring (NC)

nocapius



DN	a	d1	d4	D	d13	l7	weight (kg)
25	90	26	29	87	89	231	5,410
32	90	32	35	92	89	234	5,550
40	100	38	41	97	89	236	5,760
50	100	50	53	110	89	242	6,330
65	100	66	70	127	89	251	7,050
80	136	81	85	142	89	260	9,670
100	136	100	104	162	89	270	11,430
125	168	125	129	200	133	369	23,060
150	178	150	154	230	133	384	26,310

butterfly valve DIN between flanges o-form

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 161.08.11E.0072	○ 161.08.11H.0072	○ 161.08.11S.0072	○ 161.08.11V.0072
32	○ 161.09.11E.0072	○ 161.09.11H.0072	○ 161.09.11S.0072	○ 161.09.11V.0072
40	○ 161.10.11E.0072	○ 161.10.11H.0072	○ 161.10.11S.0072	○ 161.10.11V.0072
50	○ 161.11.11E.0072	○ 161.11.11H.0072	○ 161.11.11S.0072	○ 161.11.11V.0072
65	○ 161.12.11E.0072	○ 161.12.11H.0072	○ 161.12.11S.0072	○ 161.12.11V.0072
80	○ 161.14.11E.0072	○ 161.14.11H.0072	○ 161.14.11S.0072	○ 161.14.11V.0072
100	○ 161.15.11E.0072	○ 161.15.11H.0072	○ 161.15.11S.0072	○ 161.15.11V.0072
125	○ 161.16.11E.0072	○ 161.16.11H.0072	○ 161.16.11S.0072	○ 161.16.11V.0072
150	○ 161.17.11E.0072	○ 161.17.11H.0072	○ 161.17.11S.0072	○ 161.17.11V.0072

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve DIN between flanges o-form

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0072	○ 161.08.12H.0072	○ 161.08.12S.0072	○ 161.08.12V.0072
32	○ 161.09.12E.0072	○ 161.09.12H.0072	○ 161.09.12S.0072	○ 161.09.12V.0072
40	○ 161.10.12E.0072	○ 161.10.12H.0072	○ 161.10.12S.0072	○ 161.10.12V.0072
50	○ 161.11.12E.0072	○ 161.11.12H.0072	○ 161.11.12S.0072	○ 161.11.12V.0072
65	○ 161.12.12E.0072	○ 161.12.12H.0072	○ 161.12.12S.0072	○ 161.12.12V.0072
80	○ 161.14.12E.0072	○ 161.14.12H.0072	○ 161.14.12S.0072	○ 161.14.12V.0072
100	○ 161.15.12E.0072	○ 161.15.12H.0072	○ 161.15.12S.0072	○ 161.15.12V.0072
125	○ 161.16.12E.0072	○ 161.16.12H.0072	○ 161.16.12S.0072	○ 161.16.12V.0072
150	○ 161.17.12E.0072	○ 161.17.12H.0072	○ 161.17.12S.0072	○ 161.17.12V.0072

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve DIN between flanges o-form air/spring (NC)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 162.08.11E.0072	○ 162.08.11H.0072	○ 162.08.11S.0072	○ 162.08.11V.0072
32	○ 162.09.11E.0072	○ 162.09.11H.0072	○ 162.09.11S.0072	○ 162.09.11V.0072
40	○ 162.10.11E.0072	○ 162.10.11H.0072	○ 162.10.11S.0072	○ 162.10.11V.0072
50	○ 162.11.11E.0072	○ 162.11.11H.0072	○ 162.11.11S.0072	○ 162.11.11V.0072
65	○ 162.12.11E.0072	○ 162.12.11H.0072	○ 162.12.11S.0072	○ 162.12.11V.0072
80	○ 162.14.11E.0072	○ 162.14.11H.0072	○ 162.14.11S.0072	○ 162.14.11V.0072
100	○ 162.15.11E.0072	○ 162.15.11H.0072	○ 162.15.11S.0072	○ 162.15.11V.0072
125	○ 162.16.11E.0072	○ 162.16.11H.0072	○ 162.16.11S.0072	○ 162.16.11V.0072
150	○ 162.17.11E.0072	○ 162.17.11H.0072	○ 162.17.11S.0072	○ 162.17.11V.0072

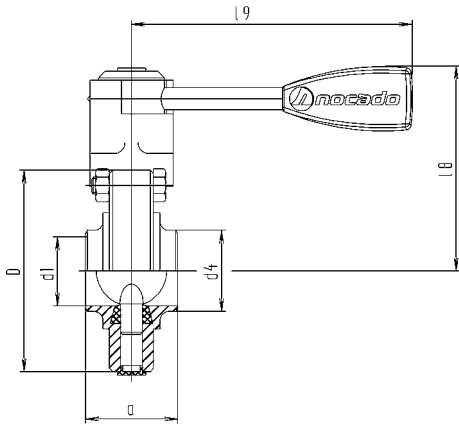
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve DIN between flanges o-form air/spring (NC)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0072	○ 162.08.12H.0072	○ 162.08.12S.0072	○ 162.08.12V.0072
32	○ 162.09.12E.0072	○ 162.09.12H.0072	○ 162.09.12S.0072	○ 162.09.12V.0072
40	○ 162.10.12E.0072	○ 162.10.12H.0072	○ 162.10.12S.0072	○ 162.10.12V.0072
50	○ 162.11.12E.0072	○ 162.11.12H.0072	○ 162.11.12S.0072	○ 162.11.12V.0072
65	○ 162.12.12E.0072	○ 162.12.12H.0072	○ 162.12.12S.0072	○ 162.12.12V.0072
80	○ 162.14.12E.0072	○ 162.14.12H.0072	○ 162.14.12S.0072	○ 162.14.12V.0072
100	○ 162.15.12E.0072	○ 162.15.12H.0072	○ 162.15.12S.0072	○ 162.15.12V.0072
125	○ 162.16.12E.0072	○ 162.16.12H.0072	○ 162.16.12S.0072	○ 162.16.12V.0072
150	○ 162.17.12E.0072	○ 162.17.12H.0072	○ 162.17.12S.0072	○ 162.17.12V.0072

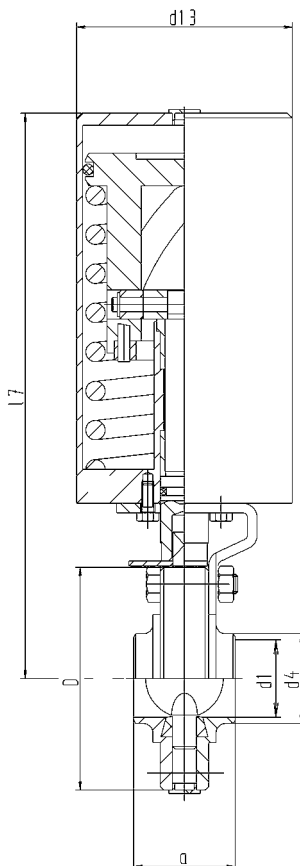
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, weld ends (welding bevel for tubing acc.DIN 11850) (622)



DN	a	d1	d4	D	l8	l9	weight (kg)
15	40	16	21	87	89	102	1,350
20	40	20	25	87	89	102	1,350
25	40	26	31	87	89	132	1,350
32	42	32	37	92	91	132	1,420
40	50	38	43	97	94	132	1,520
50	50	50	55	110	100	132	1,800
65	50	66	72	127	109	132	2,180
80	60	81	87	142	124	165	3,950
100	64	100	106	162	135	165	4,800
125	112	125	132	200	162	216	8,100
150	124	150	157	230	177	216	10,300

butterfly valve, weld ends, air/spr. (NC) (welding bevel acc. DIN 11850) (622)



DN	a	d1	d4	d13	D	l7	weight (kg)
15	40	16	21	89	87	231	4,300
20	40	20	25	89	87	231	4,300
25	40	26	31	89	87	231	4,300
32	42	32	37	89	92	234	4,390
40	50	38	43	89	97	236	4,480
50	50	50	55	89	110	242	4,790
65	50	66	72	89	127	251	5,210
80	60	81	87	89	142	260	6,610
100	64	100	106	89	162	270	7,490
125	112	125	132	133	200	369	16,040
150	124	150	157	133	230	384	18,300

butterfly valve, weld ends (welding bevel for tubing acc. DIN 11850) (622)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
15	● 161.06.11E.0000	○ 161.06.11H.0000	● 161.06.11S.0000	● 161.06.11V.0000
20	● 161.07.11E.0000	○ 161.07.11H.0000	● 161.07.11S.0000	● 161.07.11V.0000
25	● 161.08.11E.0000	● 161.08.11H.0000	● 161.08.11S.0000	● 161.08.11V.0000
32	● 161.09.11E.0000	● 161.09.11H.0000	● 161.09.11S.0000	● 161.09.11V.0000
40	● 161.10.11E.0000	● 161.10.11H.0000	● 161.10.11S.0000	● 161.10.11V.0000
50	● 161.11.11E.0000	● 161.11.11H.0000	● 161.11.11S.0000	● 161.11.11V.0000
65	● 161.12.11E.0000	● 161.12.11H.0000	● 161.12.11S.0000	● 161.12.11V.0000
80	● 161.14.11E.0000	● 161.14.11H.0000	● 161.14.11S.0000	● 161.14.11V.0000
100	● 161.15.11E.0000	● 161.15.11H.0000	● 161.15.11S.0000	● 161.15.11V.0000
125	○ 161.16.11E.0000	○ 161.16.11H.0000	○ 161.16.11S.0000	○ 161.16.11V.0000
150	○ 161.17.11E.0000	○ 161.17.11H.0000	○ 161.17.11S.0000	○ 161.17.11V.0000

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, weld ends (welding bevel for tubing acc. DIN 11850) (622)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
15	● 161.06.12E.0000	○ 161.06.12H.0000	● 161.06.12S.0000	● 161.06.12V.0000
20	● 161.07.12E.0000	○ 161.07.12H.0000	● 161.07.12S.0000	● 161.07.12V.0000
25	● 161.08.12E.0000	● 161.08.12H.0000	● 161.08.12S.0000	● 161.08.12V.0000
32	● 161.09.12E.0000	● 161.09.12H.0000	● 161.09.12S.0000	● 161.09.12V.0000
40	● 161.10.12E.0000	● 161.10.12H.0000	● 161.10.12S.0000	● 161.10.12V.0000
50	● 161.11.12E.0000	● 161.11.12H.0000	● 161.11.12S.0000	● 161.11.12V.0000
65	● 161.12.12E.0000	● 161.12.12H.0000	● 161.12.12S.0000	● 161.12.12V.0000
80	● 161.14.12E.0000	● 161.14.12H.0000	● 161.14.12S.0000	● 161.14.12V.0000
100	● 161.15.12E.0000	● 161.15.12H.0000	● 161.15.12S.0000	● 161.15.12V.0000
125	○ 161.16.12E.0000	○ 161.16.12H.0000	○ 161.16.12S.0000	○ 161.16.12V.0000
150	○ 161.17.12E.0000	○ 161.17.12H.0000	○ 161.17.12S.0000	○ 161.17.12V.0000

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, weld ends, air/spr. (NC) (welding bevel acc. DIN 11850) (622)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
15	○ 162.06.11E.0000	○ 162.06.11H.0000	○ 162.06.11S.0000	○ 162.06.11V.0000
20	● 162.07.11E.0000	○ 162.07.11H.0000	● 162.07.11S.0000	● 162.07.11V.0000
25	● 162.08.11E.0000	● 162.08.11H.0000	● 162.08.11S.0000	● 162.08.11V.0000
32	● 162.09.11E.0000	● 162.09.11H.0000	● 162.09.11S.0000	● 162.09.11V.0000
40	● 162.10.11E.0000	● 162.10.11H.0000	● 162.10.11S.0000	● 162.10.11V.0000
50	● 162.11.11E.0000	● 162.11.11H.0000	● 162.11.11S.0000	● 162.11.11V.0000
65	● 162.12.11E.0000	● 162.12.11H.0000	● 162.12.11S.0000	● 162.12.11V.0000
80	● 162.14.11E.0000	● 162.14.11H.0000	● 162.14.11S.0000	● 162.14.11V.0000
100	● 162.15.11E.0000	● 162.15.11H.0000	● 162.15.11S.0000	● 162.15.11V.0000
125	○ 162.16.11E.0000	○ 162.16.11H.0000	○ 162.16.11S.0000	○ 162.16.11V.0000
150	○ 162.17.11E.0000	○ 162.17.11H.0000	○ 162.17.11S.0000	○ 162.17.11V.0000

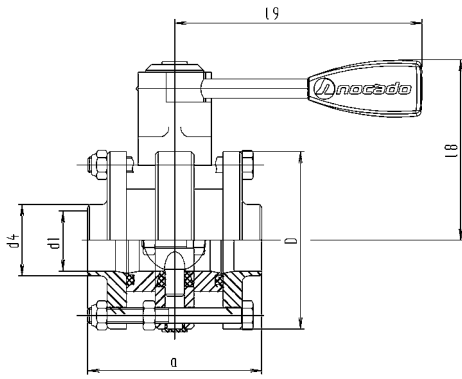
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, weld ends, air/spr. (NC) (welding bevel acc. DIN 11850) (622)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
15	○ 162.06.12E.0000	○ 162.06.12H.0000	○ 162.06.12S.0000	○ 162.06.12V.0000
20	● 162.07.12E.0000	○ 162.07.12H.0000	● 162.07.12S.0000	● 162.07.12V.0000
25	● 162.08.12E.0000	● 162.08.12H.0000	● 162.08.12S.0000	● 162.08.12V.0000
32	● 162.09.12E.0000	● 162.09.12H.0000	● 162.09.12S.0000	● 162.09.12V.0000
40	● 162.10.12E.0000	● 162.10.12H.0000	● 162.10.12S.0000	● 162.10.12V.0000
50	● 162.11.12E.0000	● 162.11.12H.0000	● 162.11.12S.0000	● 162.11.12V.0000
65	● 162.12.12E.0000	● 162.12.12H.0000	● 162.12.12S.0000	● 162.12.12V.0000
80	● 162.14.12E.0000	● 162.14.12H.0000	● 162.14.12S.0000	● 162.14.12V.0000
100	● 162.15.12E.0000	● 162.15.12H.0000	● 162.15.12S.0000	● 162.15.12V.0000
125	○ 162.16.12E.0000	○ 162.16.12H.0000	○ 162.16.12S.0000	○ 162.16.12V.0000
150	○ 162.17.12E.0000	○ 162.17.12H.0000	○ 162.17.12S.0000	○ 162.17.12V.0000

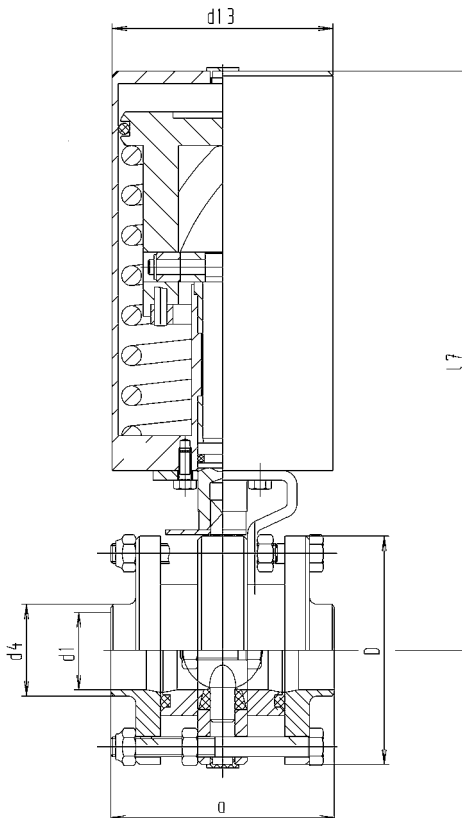
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, betw. flanges, (for tubing acc. DIN 11850) (660)



DN	a	d1	d4	D	l8	l9	weight (kg)
20	90	20	25	87	89	102	2,430
25	90	26	31	87	89	132	2,430
32	90	32	37	92	91	132	2,570
40	100	38	43	97	94	132	2,780
50	100	50	55	110	100	132	3,350
65	100	66	72	127	109	132	4,070
80	136	81	87	142	124	165	7,400
100	136	100	106	162	135	165	15,100
125	168	125	132	200	162	216	15,100
150	178	150	157	230	177	216	18,400
200	112	200	208	316	221	276	28,400

butterfly valve, betw. fl. air/spring (NC) (weld. bevel acc. DIN 11850) (660)



DN	a	d1	d4	D	d13	l7	weight (kg)
20	90	20	25	87	89	231	5,380
25	90	26	31	87	89	231	5,380
32	90	32	37	92	89	234	5,540
40	100	38	43	97	89	236	5,740
50	100	50	55	110	89	242	6,340
65	100	66	72	127	89	251	7,100
80	136	81	87	142	89	260	10,060
100	136	100	106	162	89	270	11,490
125	168	125	132	200	133	369	23,040
150	178	150	157	230	133	384	26,400
200	112	200	208	316	133	428	36,320

butterfly valve, betw. flanges, (for tubing acc. DIN 11850) (660)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
20	○ 161.07.11E.0018	○ 161.07.11H.0018	○ 161.07.11S.0018	○ 161.07.11V.0018
25	● 161.08.11E.0018	● 161.08.11H.0018	● 161.08.11S.0018	● 161.08.11V.0018
32	● 161.09.11E.0018	● 161.09.11H.0018	● 161.09.11S.0018	● 161.09.11V.0018
40	● 161.10.11E.0018	● 161.10.11H.0018	● 161.10.11S.0018	● 161.10.11V.0018
50	● 161.11.11E.0018	● 161.11.11H.0018	● 161.11.11S.0018	● 161.11.11V.0018
65	● 161.12.11E.0018	● 161.12.11H.0018	● 161.12.11S.0018	● 161.12.11V.0018
80	● 161.14.11E.0018	● 161.14.11H.0018	● 161.14.11S.0018	● 161.14.11V.0018
100	● 161.15.11E.0018	● 161.15.11H.0018	● 161.15.11S.0018	● 161.15.11V.0018
125	○ 161.16.11E.0018	○ 161.16.11H.0018	○ 161.16.11S.0018	○ 161.16.11V.0018
150	○ 161.17.11E.0018	○ 161.17.11H.0018	○ 161.17.11S.0018	○ 161.17.11V.0018
200	○ 161.18.11E.0018	○ 161.18.11H.0018	○ 161.18.11S.0018	○ 161.18.11V.0018

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, betw. flanges, (for tubing acc. DIN 11850) (660)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
20	○ 161.07.12E.0018	○ 161.07.12H.0018	○ 161.07.12S.0018	○ 161.07.12V.0018
25	● 161.08.12E.0018	● 161.08.12H.0018	● 161.08.12S.0018	● 161.08.12V.0018
32	● 161.09.12E.0018	● 161.09.12H.0018	● 161.09.12S.0018	● 161.09.12V.0018
40	● 161.10.12E.0018	● 161.10.12H.0018	● 161.10.12S.0018	● 161.10.12V.0018
50	● 161.11.12E.0018	● 161.11.12H.0018	● 161.11.12S.0018	● 161.11.12V.0018
65	● 161.12.12E.0018	● 161.12.12H.0018	● 161.12.12S.0018	● 161.12.12V.0018
80	● 161.14.12E.0018	● 161.14.12H.0018	● 161.14.12S.0018	● 161.14.12V.0018
100	● 161.15.12E.0018	● 161.15.12H.0018	● 161.15.12S.0018	● 161.15.12V.0018
125	○ 161.16.12E.0018	○ 161.16.12H.0018	○ 161.16.12S.0018	○ 161.16.12V.0018
150	○ 161.17.12E.0018	○ 161.17.12H.0018	○ 161.17.12S.0018	○ 161.17.12V.0018
200	○ 161.18.12E.0018	○ 161.18.12H.0018	○ 161.18.12S.0018	○ 161.18.12V.0018

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, betw. fl. air/spring (NC) (weid. bevel acc. DIN 11850) (660)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
20	○ 162.07.11E.0018	○ 162.07.11H.0018	○ 162.07.11S.0018	○ 162.07.11V.0018
25	● 162.08.11E.0018	● 162.08.11H.0018	● 162.08.11S.0018	● 162.08.11V.0018
32	● 162.09.11E.0018	● 162.09.11H.0018	● 162.09.11S.0018	● 162.09.11V.0018
40	● 162.10.11E.0018	● 162.10.11H.0018	● 162.10.11S.0018	● 162.10.11V.0018
50	● 162.11.11E.0018	● 162.11.11H.0018	● 162.11.11S.0018	● 162.11.11V.0018
65	● 162.12.11E.0018	● 162.12.11H.0018	● 162.12.11S.0018	● 162.12.11V.0018
80	● 162.14.11E.0018	● 162.14.11H.0018	● 162.14.11S.0018	● 162.14.11V.0018
100	● 162.15.11E.0018	● 162.15.11H.0018	● 162.15.11S.0018	● 162.15.11V.0018
125	○ 162.16.11E.0018	○ 162.16.11H.0018	○ 162.16.11S.0018	○ 162.16.11V.0018
150	○ 162.17.11E.0018	○ 162.17.11H.0018	○ 162.17.11S.0018	○ 162.17.11V.0018
200	○ 162.18.11E.0018	○ 162.18.11H.0018	○ 162.18.11S.0018	○ 162.18.11V.0018

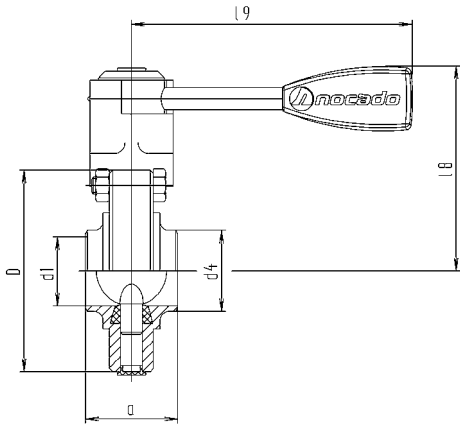
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, betw. fl. air/spring (NC) (weid. bevel acc. DIN 11850) (660)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
20	○ 162.07.12E.0018	○ 162.07.12H.0018	○ 162.07.12S.0018	○ 162.07.12V.0018
25	● 162.08.12E.0018	● 162.08.12H.0018	● 162.08.12S.0018	● 162.08.12V.0018
32	● 162.09.12E.0018	● 162.09.12H.0018	● 162.09.12S.0018	● 162.09.12V.0018
40	● 162.10.12E.0018	● 162.10.12H.0018	● 162.10.12S.0018	● 162.10.12V.0018
50	● 162.11.12E.0018	● 162.11.12H.0018	● 162.11.12S.0018	● 162.11.12V.0018
65	● 162.12.12E.0018	● 162.12.12H.0018	● 162.12.12S.0018	● 162.12.12V.0018
80	● 162.14.12E.0018	● 162.14.12H.0018	● 162.14.12S.0018	● 162.14.12V.0018
100	● 162.15.12E.0018	● 162.15.12H.0018	● 162.15.12S.0018	● 162.15.12V.0018
125	○ 162.16.12E.0018	○ 162.16.12H.0018	○ 162.16.12S.0018	○ 162.16.12V.0018
150	○ 162.17.12E.0018	○ 162.17.12H.0018	○ 162.17.12S.0018	○ 162.17.12V.0018
200	○ 162.18.12E.0018	○ 162.18.12H.0018	○ 162.18.12S.0018	○ 162.18.12V.0018

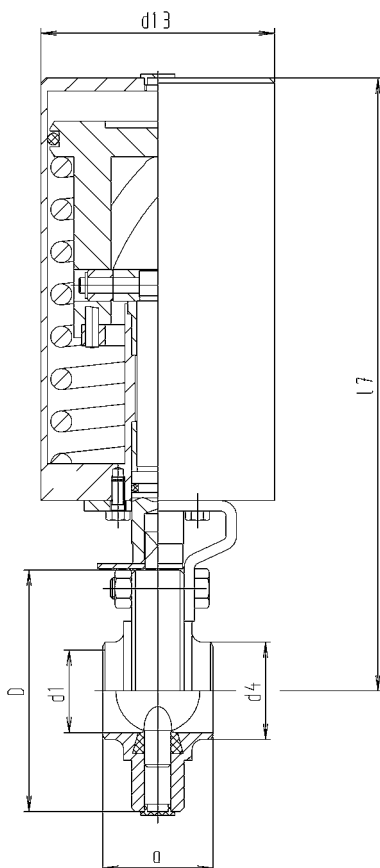
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, weld ends, inch OD (623)



DN	a	d1	d4	D	l8	l9	weight (kg)
1"	40	22.1	25.4	87	89	132	1,310
1¼"	42	28.5	31.8	92	91	132	1,420
1½"	50	34.8	38.1	97	94	132	1,520
2"	50	47.5	50.8	110	100	132	1,800
2½"	50	60.2	63.5	127	109	132	2,180
3"	60	72.9	76.2	142	124	165	4,150
4"	64	97.4	101.6	162	135	165	4,800

butterfly valve, weld ends, air/spring (NC), inch OD (623)



DN	a	d1	d4	D	d13	l7	weight (kg)
1"	40	22.1	25.4	87	89	231	4,260
1¼"	42	28.5	31.8	92	89	234	4,390
1½"	50	34.8	38.1	97	89	236	4,480
2"	50	47.5	50.8	110	89	242	4,790
2½"	50	60.2	63.5	127	89	251	5,210
3"	60	72.9	76.2	142	89	260	6,810
4"	64	97.4	101.6	162	89	270	7,490

butterfly valve, weld ends, inch OD (623)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 161.08.11E.0001	● 161.08.11H.0001	● 161.08.11S.0001	● 161.08.11V.0001
1¼"	● 161.09.11E.0001	● 161.09.11H.0001	● 161.09.11S.0001	● 161.09.11V.0001
1½"	● 161.10.11E.0001	● 161.10.11H.0001	● 161.10.11S.0001	● 161.10.11V.0001
2"	● 161.11.11E.0001	● 161.11.11H.0001	● 161.11.11S.0001	● 161.11.11V.0001
2½"	● 161.12.11E.0001	● 161.12.11H.0001	● 161.12.11S.0001	● 161.12.11V.0001
3"	● 161.13.11E.0001	● 161.13.11H.0001	● 161.13.11S.0001	● 161.13.11V.0001
4"	● 161.15.11E.0001	● 161.15.11H.0001	● 161.15.11S.0001	● 161.15.11V.0001

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, weld ends, inch OD (623)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 161.08.12E.0001	● 161.08.12H.0001	● 161.08.12S.0001	● 161.08.12V.0001
1¼"	● 161.09.12E.0001	● 161.09.12H.0001	● 161.09.12S.0001	● 161.09.12V.0001
1½"	● 161.10.12E.0001	● 161.10.12H.0001	● 161.10.12S.0001	● 161.10.12V.0001
2"	● 161.11.12E.0001	● 161.11.12H.0001	● 161.11.12S.0001	● 161.11.12V.0001
2½"	● 161.12.12E.0001	● 161.12.12H.0001	● 161.12.12S.0001	● 161.12.12V.0001
3"	● 161.13.12E.0001	● 161.13.12H.0001	● 161.13.12S.0001	● 161.13.12V.0001
4"	● 161.15.12E.0001	● 161.15.12H.0001	● 161.15.12S.0001	● 161.15.12V.0001

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, weld ends, air/spring (NC), inch OD (623)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 162.08.11E.0001	● 162.08.11H.0001	● 162.08.11S.0001	● 162.08.11V.0001
1¼"	● 162.09.11E.0001	● 162.09.11H.0001	● 162.09.11S.0001	● 162.09.11V.0001
1½"	● 162.10.11E.0001	● 162.10.11H.0001	● 162.10.11S.0001	● 162.10.11V.0001
2"	● 162.11.11E.0001	● 162.11.11H.0001	● 162.11.11S.0001	● 162.11.11V.0001
2½"	● 162.12.11E.0001	● 162.12.11H.0001	● 162.12.11S.0001	● 162.12.11V.0001
3"	● 162.13.11E.0001	● 162.13.11H.0001	● 162.13.11S.0001	● 162.13.11V.0001
4"	● 162.15.11E.0001	● 162.15.11H.0001	● 162.15.11S.0001	● 162.15.11V.0001

matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

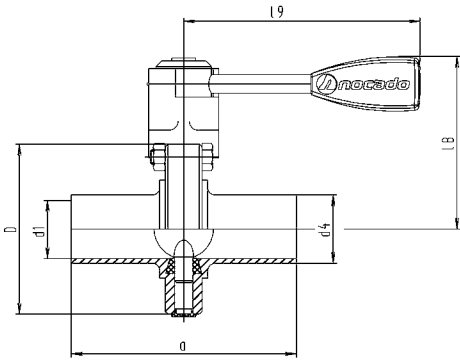
butterfly valve, weld ends, air/spring (NC), inch OD (623)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 162.08.12E.0001	● 162.08.12H.0001	● 162.08.12S.0001	● 162.08.12V.0001
1¼"	● 162.09.12E.0001	● 162.09.12H.0001	● 162.09.12S.0001	● 162.09.12V.0001
1½"	● 162.10.12E.0001	● 162.10.12H.0001	● 162.10.12S.0001	● 162.10.12V.0001
2"	● 162.11.12E.0001	● 162.11.12H.0001	● 162.11.12S.0001	● 162.11.12V.0001
2½"	● 162.12.12E.0001	● 162.12.12H.0001	● 162.12.12S.0001	● 162.12.12V.0001
3"	● 162.13.12E.0001	● 162.13.12H.0001	● 162.13.12S.0001	● 162.13.12V.0001
4"	● 162.15.12E.0001	● 162.15.12H.0001	● 162.15.12S.0001	● 162.15.12V.0001

matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, weld ends for orbital welding, inch OD (6220)

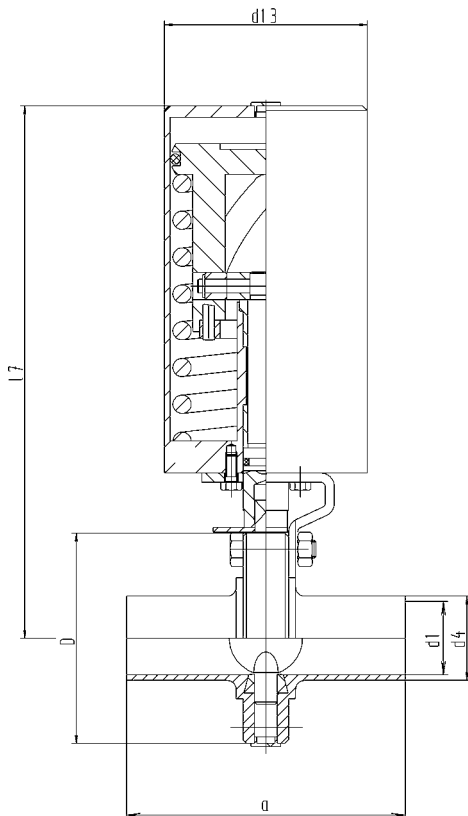
nocapius



DN	a	d1	d4	D	l8	l9	weight (kg)
1"	125	22.1	25.4	87	89	132	1,410
1 1/4"	125	28.5	31.8	92	91	132	1,497
1 1/2"	125	34.8	38.1	97	94	132	1,635
2"	125	47.5	50.8	110	100	132	1,955
2 1/2"	125	60.2	63.5	127	109	132	2,370
3"	160	72.9	76.2	142	124	165	4,360
4"	170	97.4	101.4	162	135	165	5,345

butterfly valve, weld ends for orbital welding, air/spring (NC), inch OD

nocapius



DN	a	d1	d4	D	d13	l7	weight (kg)
1"	125	22.1	25.4	87	89	231	4,360
1 1/4"	125	28.5	31.8	92	89	234	4,465
1 1/2"	125	34.8	38.1	97	89	236	4,670
2"	125	47.5	50.8	110	89	242	5,060
2 1/2"	125	60.2	63.5	127	89	251	5,550
3"	160	72.9	76.2	142	89	260	7,210
4"	170	97.4	101.4	162	89	270	8,040

butterfly valve, weld ends for orbital welding, inch OD (6220)

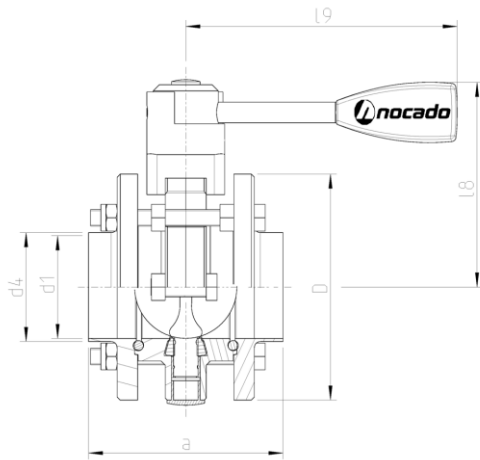
DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	o 161.08.12E.0133	o 161.08.12H.0133	o 161.08.12S.0133	o 161.08.12V.0133
1 1/4"	o 161.09.12E.0133	o 161.09.12H.0133	o 161.09.12S.0133	o 161.09.12V.0133
1 1/2"	o 161.10.12E.0133	o 161.10.12H.0133	o 161.10.12S.0133	o 161.10.12V.0133
2"	o 161.11.12E.0133	o 161.11.12H.0133	o 161.11.12S.0133	o 161.11.12V.0133
2 1/2"	o 161.12.12E.0133	o 161.12.12H.0133	o 161.12.12S.0133	o 161.12.12V.0133
3"	o 161.13.12E.0133	o 161.13.12H.0133	o 161.13.12S.0133	o 161.13.12V.0133
4"	o 161.15.12E.0133	o 161.15.12H.0133	o 161.15.12S.0133	o 161.15.12V.0133

butterfly valve, weld ends for orbital welding, air/spring (NC), inch OD

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	o 162.08.12E.0133	o 162.08.12H.0133	o 162.08.12S.0133	o 162.08.12V.0133
1 1/4"	o 162.09.12E.0133	o 162.09.12H.0133	o 162.09.12S.0133	o 162.09.12V.0133
1 1/2"	o 162.10.12E.0133	o 162.10.12H.0133	o 162.10.12S.0133	o 162.10.12V.0133
2"	o 162.11.12E.0133	o 162.11.12H.0133	o 162.11.12S.0133	o 162.11.12V.0133
2 1/2"	o 162.12.12E.0133	o 162.12.12H.0133	o 162.12.12S.0133	o 162.12.12V.0133
3"	o 162.13.12E.0133	o 162.13.12H.0133	o 162.13.12S.0133	o 162.13.12V.0133
4"	o 162.15.12E.0133	o 162.15.12H.0133	o 162.15.12S.0133	o 162.15.12V.0133

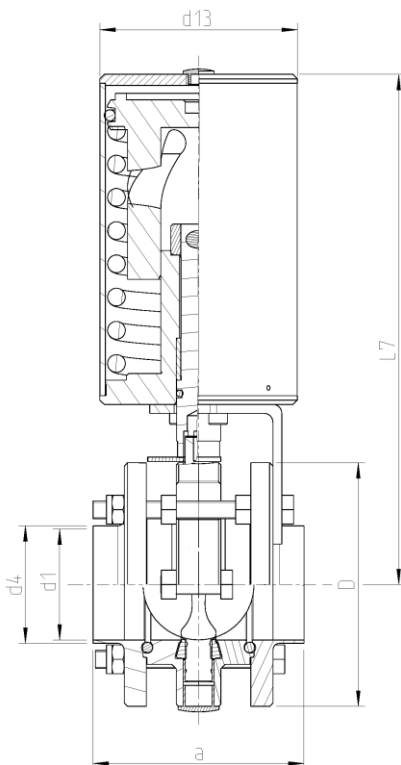
available in version spring/air (normally open) and air/air

Butterfly valve Inch/ASME-BPE, between flanges EHEDG, weld ends, handle 90° [660EZ]



DN	a	d1	d4	D	l8	l9	weight (kg)
1"	87	22,10	25,4	87	89	132	2,430
1½"	97	34,80	38,1	97	94	132	2,780
2"	97	47,50	50,8	110	100	132	3,350
2½"	97	60,20	63,5	127	109	132	4,070
3"	133	72,90	76,2	142	124	165	7,200
4"	133	97,38	101,6	162	135	165	8,800

Butterfly valve Inch/ASME BPE, between flanges EHEDG, weld ends, actuator normally closed [660EZ]



DN	a	d1	d4	D	d13	l7	weight (kg)
1"	87	22,10	25,4	87	89	231	5,380
1½"	97	34,80	38,1	97	89	236	5,740
2"	97	47,50	50,8	110	89	242	6,340
2½"	97	60,20	63,5	127	89	251	7,100
3"	133	72,90	76,2	142	89	260	9,860
4"	133	97,38	101,6	162	89	270	11,490

Butterfly valve Inch OD, between flanges EHEDG, weld ends, handle 90° [660EZ]

DN	304L EPDM bright Article no.	304L HNBR bright Article no.	304L VMQ bright Article no.	304L FKM bright Article no.
1"	○ 161.08.11E.0088	○ 161.08.11H.0088	○ 161.08.11S.0088	○ 161.08.11V.0088
1½"	○ 161.10.11E.0088	○ 161.10.11H.0088	○ 161.10.11S.0088	○ 161.10.11V.0088
2"	● 161.11.11E.0088	● 161.11.11H.0088	● 161.11.11S.0088	● 161.11.11V.0088
2½"	● 161.12.11E.0088	● 161.12.11H.0088	● 161.12.11S.0088	● 161.12.11V.0088
3"	● 161.13.11E.0088	● 161.13.11H.0088	● 161.13.11S.0088	● 161.13.11V.0088
4"	● 161.15.11E.0088	● 161.15.11H.0088	● 161.15.11S.0088	● 161.15.11V.0088

Without handle: at 3rd digit, number 9 in article no. (z. B. 169.11.11E.0085)

Matt surface: at 6th digit, number 2 in article no. (z. B. 161.11.21E.0085)

Butterfly valve Inch OD, between flanges EHEDG, weld ends, handle 90° [660EZ]

DN	316L EPDM bright Article no.	316L HNBR bright Article no.	316L VMQ bright Article no.	316L FKM bright Article no.
1"	○ 161.08.12E.0088	○ 161.08.12H.0088	○ 161.08.12S.0088	○ 161.08.12V.0088
1½"	○ 161.10.12E.0088	○ 161.10.12H.0088	○ 161.10.12S.0088	○ 161.10.12V.0088
2"	● 161.12.12E.0088	● 161.12.12H.0088	● 161.12.12S.0088	● 161.12.12V.0088
2½"	● 161.12.12E.0088	● 161.12.12H.0088	● 161.12.12S.0088	● 161.12.12V.0088
3"	● 161.13.12E.0088	● 161.13.12H.0088	● 161.13.12S.0088	● 161.13.12V.0088
4"	● 161.15.12E.0088	● 161.15.12H.0088	● 161.15.12S.0088	● 161.15.12V.0088

Without handle: at 3rd digit, number 9 in article no. (z. B. 169.11.11E.0085)

Matt surface: at 6th digit, number 2 in article no. (z. B. 161.11.21E.0085)

Butterfly valve Inch OD, between flanges EHEDG, weld ends, actuator normally closed (NC) [660EZ]

DN	304L EPDM bright Article no.	304L HNBR bright Article no.	304L VMQ bright Article no.	304L FKM bright Article no.
1"	○ 162.08.11E.0088	○ 162.08.11H.0088	○ 162.08.11S.0088	○ 162.08.11V.0088
1½"	○ 162.10.11E.0088	○ 162.10.11H.0088	○ 162.10.11S.0088	○ 162.10.11V.0088
2"	● 162.11.11E.0088	● 162.11.11H.0088	● 162.11.11S.0088	● 162.11.11V.0088
2½"	● 162.12.11E.0088	● 162.12.11H.0088	● 162.12.11S.0088	● 162.12.11V.0088
3"	● 162.13.11E.0088	● 162.13.11H.0088	● 162.13.11S.0088	● 162.13.11V.0088
4"	● 162.15.11E.0088	● 162.15.11H.0088	● 162.15.11S.0088	● 162.15.11V.0088

Design of valve with actuator NO (normally open) or NS (non static, air/air) available.

Matt surface: at 6th digit, number 2 in article no. (z. B. 162.11.21E.0088)

Butterfly valve Inch OD, between flanges EHEDG, weld ends, actuator normally closed (NC) [660EZ]

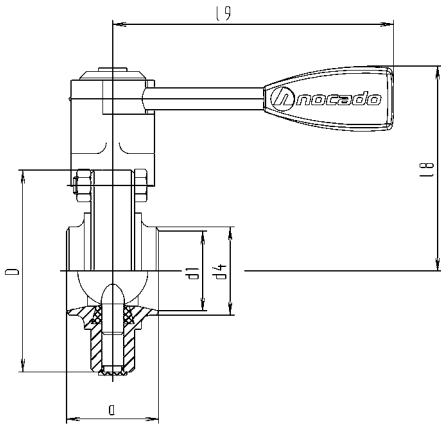
DN	316L EPDM bright Article no.	316L HNBR bright Article no.	316L VMQ bright Article no.	316L FKM bright Article no.
1"	○ 162.08.12E.0088	○ 162.08.12H.0088	○ 162.08.12S.0088	○ 162.08.12V.0088
1½"	○ 162.10.12E.0088	○ 162.10.12H.0088	○ 162.10.12S.0088	○ 162.10.12V.0088
2"	● 162.11.12E.0088	● 162.11.12H.0088	● 162.11.12S.0088	● 162.11.12V.0088
2½"	● 162.12.12E.0088	● 162.12.12H.0088	● 162.12.12S.0088	● 162.12.12V.0088
3"	● 162.13.12E.0088	● 162.13.12H.0088	● 162.13.12S.0088	● 162.13.12V.0088
4"	● 162.15.12E.0088	● 162.15.12H.0088	● 162.15.12S.0088	● 162.15.12V.0088

Design of valve with actuator NO (normally open) or NS (non static, air/air) available.

Matt surface: at 6th digit, number 2 in article no. (z. B. 162.11.21E.0088)

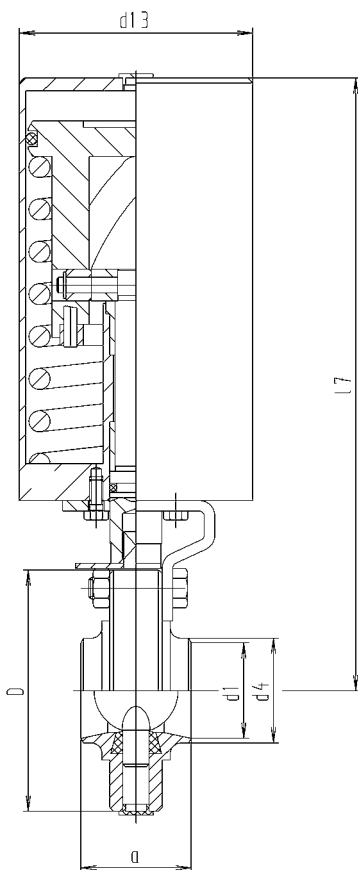
Old version with gaskets acc. to DIN 11851-G between butterfly valve and outer flanges on request.

butterfly valve, weld ends, ISO (622I)



DN	a	d1	d4	D	l8	l9	weight (kg)
25	40	29.7	33.7	87	89	132	1,310
32	42	38	42	92	91	132	1,420
40	50	44.3	48.3	97	94	132	1,520
50	50	56.3	60.3	110	100	132	1,800
65	50	72.9	76.1	127	109	132	2,180
80	60	84.9	88.9	142	124	165	3,950
100	64	109.7	114.3	162	135	165	4,800

butterfly valve, weld ends, air/spring (NC), ISO (622I)



DN	a	d1	d4	D	d13	l7	weight (kg)
25	40	29.7	33.7	87	89	231	4,340
32	42	38	42	92	89	233	4,450
40	50	44.3	48.3	97	89	236	4,595
50	50	56.3	60.3	110	89	242	4,860
65	50	72.9	76.1	127	89	251	5,200
80	60	84.9	88.9	142	89	260	6,575
100	64	109.7	114.3	162	89	270	7,550

butterfly valve, weld ends, ISO (6221)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 161.08.11E.0115	○ 161.08.11H.0115	● 161.08.11S.0115	● 161.08.11V.0115
32	○ 161.09.11E.0115	○ 161.09.11H.0115	● 161.09.11S.0115	● 161.09.11V.0115
40	○ 161.10.11E.0115	○ 161.10.11H.0115	● 161.10.11S.0115	● 161.10.11V.0115
50	○ 161.11.11E.0115	○ 161.11.11H.0115	● 161.11.11S.0115	● 161.11.11V.0115
65	○ 161.12.11E.0115	○ 161.12.11H.0115	● 161.12.11S.0115	● 161.12.11V.0115
80	○ 161.14.11E.0115	○ 161.14.11H.0115	● 161.14.11S.0115	● 161.14.11V.0115
100	○ 161.15.11E.0115	○ 161.15.11H.0115	● 161.15.11S.0115	○ 161.15.11V.0115

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, weld ends, ISO (6221)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0115	○ 161.08.12H.0115	● 161.08.12S.0115	○ 161.08.12V.0115
32	○ 161.09.12E.0115	○ 161.09.12H.0115	● 161.09.12S.0115	○ 161.09.12V.0115
40	○ 161.10.12E.0115	○ 161.10.12H.0115	● 161.10.12S.0115	○ 161.10.12V.0115
50	○ 161.11.12E.0115	○ 161.11.12H.0115	● 161.11.12S.0115	○ 161.11.12V.0115
65	○ 161.12.12E.0115	○ 161.12.12H.0115	● 161.12.12S.0115	○ 161.12.12V.0115
80	○ 161.14.12E.0115	○ 161.14.12H.0115	● 161.14.12S.0115	○ 161.14.12V.0115
100	○ 161.15.12E.0115	○ 161.15.12H.0115	○ 161.15.12S.0115	○ 161.15.12V.0115

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, weld ends, air/spring (NC), ISO (6221)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 162.08.11E.0115	○ 162.08.11H.0115	● 162.08.11S.0115	○ 162.08.11V.0115
32	○ 162.09.11E.0115	○ 162.09.11H.0115	● 162.09.11S.0115	○ 162.09.11V.0115
40	○ 162.10.11E.0115	○ 162.10.11H.0115	● 162.10.11S.0115	○ 162.10.11V.0115
50	○ 162.11.11E.0115	○ 162.11.11H.0115	● 162.11.11S.0115	○ 162.11.11V.0115
65	○ 162.12.11E.0115	○ 162.12.11H.0115	● 162.12.11S.0115	○ 162.12.11V.0115
80	○ 162.14.11E.0115	○ 162.14.11H.0115	● 162.14.11S.0115	○ 162.14.11V.0115
100	○ 162.15.11E.0115	○ 162.15.11H.0115	● 162.15.11S.0115	○ 162.15.11V.0115

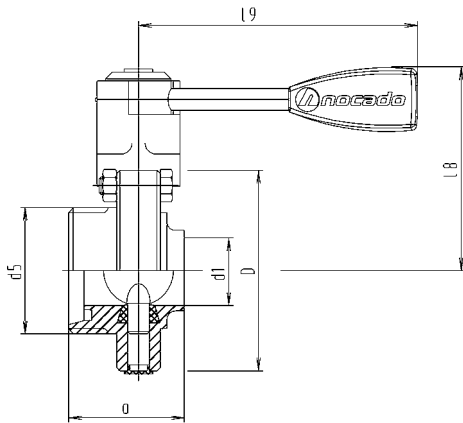
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, weld ends, air/spring (NC), ISO (6221)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0115	○ 162.08.12H.0115	● 162.08.12S.0115	○ 162.08.12V.0115
32	○ 162.09.12E.0115	○ 162.09.12H.0115	● 162.09.12S.0115	○ 162.09.12V.0115
40	○ 162.10.12E.0115	○ 162.10.12H.0115	● 162.10.12S.0115	○ 162.10.12V.0115
50	○ 162.11.12E.0115	○ 162.11.12H.0115	● 162.11.12S.0115	○ 162.11.12V.0115
65	○ 162.12.12E.0115	○ 162.12.12H.0115	● 162.12.12S.0115	○ 162.12.12V.0115
80	○ 162.14.12E.0115	○ 162.14.12H.0115	● 162.14.12S.0115	○ 162.14.12V.0115
100	○ 162.15.12E.0115	○ 162.15.12H.0115	○ 162.15.12S.0115	○ 162.15.12V.0115

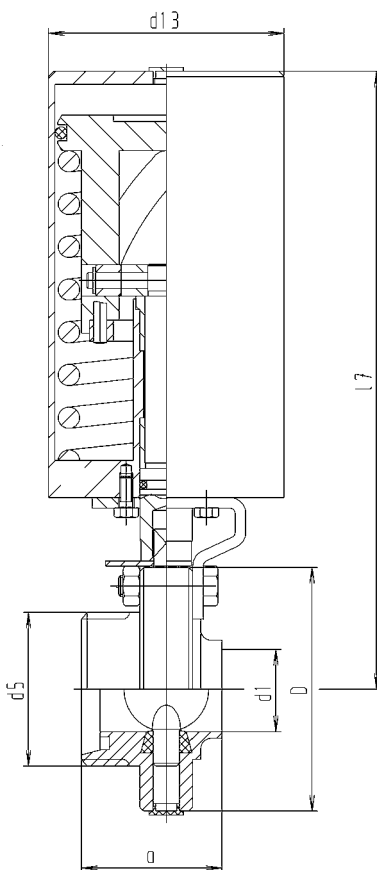
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11851 male / weld end (for tub. acc. DIN 11850 line 2) (652N)



DN	a	d1	d5	D	l8	l9	weight (kg)
25	52	26	52x1/6"	87	89	132	1,490
32	53	32	58x1/6"	92	91	132	1,580
40	61	38	65x1/6"	97	94	132	1,780
50	61	50	78x1/6"	110	100	132	2,120
65	63	66	95x1/6"	127	109	132	2,560
80	80	81	110x1/4"	142	124	165	4,620
100	84	100	130x1/4"	162	135	165	5,600
125	112	125	160x1/4"	200	162	216	9,200
150	124	150	190x1/4"	230	177	216	12,200

butterfly valve, male / weld end, air/spr. (NC)(for tub. acc. DIN 11850 line 2) (652N)



DN	a	d1	d5	D	d13	l7	weight (kg)
25	52	26	52x1/6"	87	89	231	4,440
32	53	32	58x1/6"	92	89	234	4,550
40	61	38	65x1/6"	97	89	236	4,740
50	61	50	78x1/6"	110	89	242	5,110
65	63	66	95x1/6"	127	89	251	5,590
80	80	81	110x1/4"	142	89	260	7,280
100	84	100	130x1/4"	162	89	270	8,290
125	112	125	160x1/4"	200	133	369	17,140
150	124	150	190x1/4"	230	133	384	20,200

butterfly valve, DIN 11851 male / weld end (for tub. acc. DIN 11850 line 2) (652N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 161.08.11E.0069	○ 161.08.11H.0069	○ 161.08.11S.0069	○ 161.08.11V.0069
32	○ 161.09.11E.0069	○ 161.09.11H.0069	○ 161.09.11S.0069	○ 161.09.11V.0069
40	○ 161.10.11E.0069	○ 161.10.11H.0069	○ 161.10.11S.0069	○ 161.10.11V.0069
50	○ 161.11.11E.0069	○ 161.11.11H.0069	○ 161.11.11S.0069	○ 161.11.11V.0069
65	○ 161.12.11E.0069	○ 161.12.11H.0069	○ 161.12.11S.0069	○ 161.12.11V.0069
80	○ 161.14.11E.0069	○ 161.14.11H.0069	○ 161.14.11S.0069	○ 161.14.11V.0069
100	○ 161.15.11E.0069	○ 161.15.11H.0069	○ 161.15.11S.0069	○ 161.15.11V.0069
125	○ 161.16.11E.0069	○ 161.16.11H.0069	○ 161.16.11S.0069	○ 161.16.11V.0069
150	○ 161.17.11E.0069	○ 161.17.11H.0069	○ 161.17.11S.0069	○ 161.17.11V.0069

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, DIN 11851 male / weld end (for tub. acc. DIN 11850 line 2) (652N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0069	○ 161.08.12H.0069	○ 161.08.12S.0069	○ 161.08.12V.0069
32	○ 161.09.12E.0069	○ 161.09.12H.0069	○ 161.09.12S.0069	○ 161.09.12V.0069
40	○ 161.10.12E.0069	○ 161.10.12H.0069	○ 161.10.12S.0069	○ 161.10.12V.0069
50	○ 161.11.12E.0069	○ 161.11.12H.0069	○ 161.11.12S.0069	○ 161.11.12V.0069
65	○ 161.12.12E.0069	○ 161.12.12H.0069	○ 161.12.12S.0069	○ 161.12.12V.0069
80	○ 161.14.12E.0069	○ 161.14.12H.0069	○ 161.14.12S.0069	○ 161.14.12V.0069
100	○ 161.15.12E.0069	○ 161.15.12H.0069	○ 161.15.12S.0069	○ 161.15.12V.0069
125	○ 161.16.12E.0069	○ 161.16.12H.0069	○ 161.16.12S.0069	○ 161.16.12V.0069
150	○ 161.17.12E.0069	○ 161.17.12H.0069	○ 161.17.12S.0069	○ 161.17.12V.0069

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male / weld end, air/spr. (NC)(for tub. acc. DIN 11850 line 2) (652N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 162.08.11E.0069	○ 162.08.11H.0069	○ 162.08.11S.0069	○ 162.08.11V.0069
32	○ 162.09.11E.0069	○ 162.09.11H.0069	○ 162.09.11S.0069	○ 162.09.11V.0069
40	○ 162.10.11E.0069	○ 162.10.11H.0069	○ 162.10.11S.0069	○ 162.10.11V.0069
50	○ 162.11.11E.0069	○ 162.11.11H.0069	○ 162.11.11S.0069	○ 162.11.11V.0069
65	○ 162.12.11E.0069	○ 162.12.11H.0069	○ 162.12.11S.0069	○ 162.12.11V.0069
80	○ 162.14.11E.0069	○ 162.14.11H.0069	○ 162.14.11S.0069	○ 162.14.11V.0069
100	○ 162.15.11E.0069	○ 162.15.11H.0069	○ 162.15.11S.0069	○ 162.15.11V.0069
125	○ 162.16.11E.0069	○ 162.16.11H.0069	○ 162.16.11S.0069	○ 162.16.11V.0069
150	○ 162.17.11E.0069	○ 162.17.11H.0069	○ 162.17.11S.0069	○ 162.17.11V.0069

matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

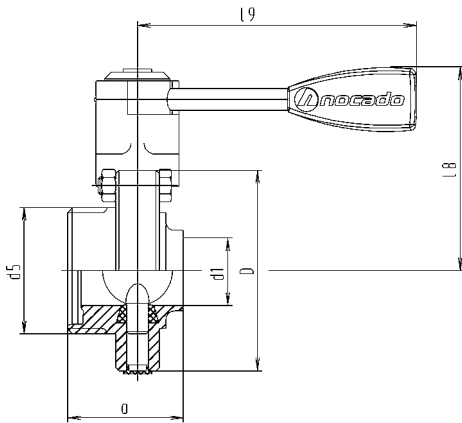
butterfly valve, male / weld end, air/spr. (NC)(for tub. acc. DIN 11850 line 2) (652N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0069	○ 162.08.12H.0069	○ 162.08.12S.0069	○ 162.08.12V.0069
32	○ 162.09.12E.0069	○ 162.09.12H.0069	○ 162.09.12S.0069	○ 162.09.12V.0069
40	○ 162.10.12E.0069	○ 162.10.12H.0069	○ 162.10.12S.0069	○ 162.10.12V.0069
50	○ 162.11.12E.0069	○ 162.11.12H.0069	○ 162.11.12S.0069	○ 162.11.12V.0069
65	○ 162.12.12E.0069	○ 162.12.12H.0069	○ 162.12.12S.0069	○ 162.12.12V.0069
80	○ 162.14.12E.0069	○ 162.14.12H.0069	○ 162.14.12S.0069	○ 162.14.12V.0069
100	○ 162.15.12E.0069	○ 162.15.12H.0069	○ 162.15.12S.0069	○ 162.15.12V.0069
125	○ 162.16.12E.0069	○ 162.16.12H.0069	○ 162.16.12S.0069	○ 162.16.12V.0069
150	○ 162.17.12E.0069	○ 162.17.12H.0069	○ 162.17.12S.0069	○ 162.17.12V.0069

matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11864 male / weld end (for tubing acc. DIN 11850 line 2) (652N)

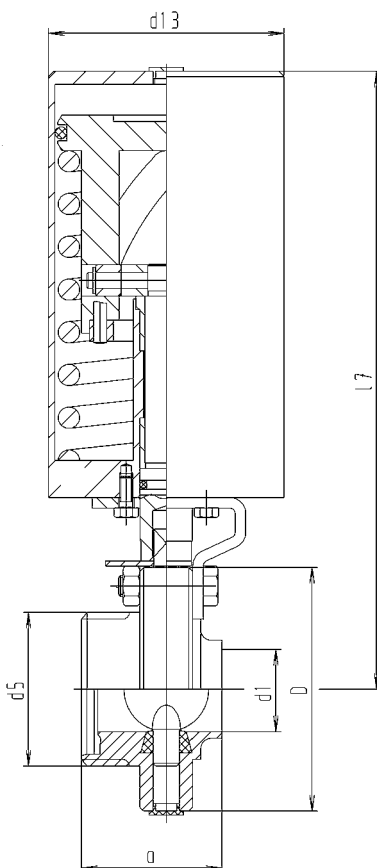
nocapius



DN	a	d1	d5 Rd	D	l8	l9	weight (kg)
25	52	26	52 x 1/6"	87	89	132	1,490
32	53	32	58 x 1/6"	92	91	132	1,580
40	61	38	65 x 1/6"	97	94	132	1,780
50	61	50	78 x 1/6"	110	100	132	2,120
65	63	66	95 x 1/6"	127	109	132	2,560
80	80	81	110 x 1/4"	142	124	165	4,620
100	84	100	130 x 1/4"	162	135	165	5,600

butterfly valve, DIN 11864 male / weld end, air/spr. (NC)(for tub. acc. DIN 11850 line 2)

nocapius



DN	a	d1	d5 Rd	D	d13	l7	weight (kg)
25	52	26	52 x 1/6"	87	89	231	4,440
32	53	32	58 x 1/6"	92	89	234	4,550
40	61	38	65 x 1/6"	97	89	236	4,740
50	61	50	78 x 1/6"	110	89	242	5,110
65	63	66	95 x 1/6"	127	89	251	5,590
80	80	81	110 x 1/4"	142	89	260	7,280
100	84	100	130 x 1/4"	162	89	270	8,290

butterfly valve, DIN 11864 male / weld end (for tubing acc. DIN 11850 line 2) (652N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	o 161.08.11E.0124	o 161.08.11H.0124	o 161.08.11S.0124	o 161.08.11V.0124
32	o 161.09.11E.0124	o 161.09.11H.0124	o 161.09.11S.0124	o 161.09.11V.0124
40	o 161.10.11E.0124	o 161.10.11H.0124	o 161.10.11S.0124	o 161.10.11V.0124
50	o 161.11.11E.0124	o 161.11.11H.0124	o 161.11.11S.0124	o 161.11.11V.0124
65	o 161.12.11E.0124	o 161.12.11H.0124	o 161.12.11S.0124	o 161.12.11V.0124
80	o 161.14.11E.0124	o 161.14.11H.0124	o 161.14.11S.0124	o 161.14.11V.0124
100	o 161.15.11E.0124	o 161.15.11H.0124	o 161.15.11S.0124	o 161.15.11V.0124

butterfly valve, DIN 11864 male / weld end (for tubing acc. DIN 11850 line 2) (652N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	o 161.08.12E.0124	o 161.08.12H.0124	o 161.08.12S.0124	o 161.08.12V.0124
32	o 161.09.12E.0124	o 161.09.12H.0124	o 161.09.12S.0124	o 161.09.12V.0124
40	o 161.10.12E.0124	o 161.10.12H.0124	o 161.10.12S.0124	o 161.10.12V.0124
50	o 161.11.12E.0124	o 161.11.12H.0124	o 161.11.12S.0124	o 161.11.12V.0124
65	o 161.12.12E.0124	o 161.12.12H.0124	o 161.12.12S.0124	o 161.12.12V.0124
80	o 161.14.12E.0124	o 161.14.12H.0124	o 161.14.12S.0124	o 161.14.12V.0124
100	o 161.15.12E.0124	o 161.15.12H.0124	o 161.15.12S.0124	o 161.15.12V.0124

butterfly valve, DIN 11864 male / weld end, air/spr. (NC)(for tub. acc. DIN 11850 line 2)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	o 162.08.11E.0124	o 162.08.11H.0124	o 162.08.11S.0124	o 162.08.11V.0124
32	o 162.09.11E.0124	o 162.09.11H.0124	o 162.09.11S.0124	o 162.09.11V.0124
40	o 162.10.11E.0124	o 162.10.11H.0124	o 162.10.11S.0124	o 162.10.11V.0124
50	o 162.11.11E.0124	o 162.11.11H.0124	o 162.11.11S.0124	o 162.11.11V.0124
65	o 162.12.11E.0124	o 162.12.11H.0124	o 162.12.11S.0124	o 162.12.11V.0124
80	o 162.14.11E.0124	o 162.14.11H.0124	o 162.14.11S.0124	o 162.14.11V.0124
100	o 162.15.11E.0124	o 162.15.11H.0124	o 162.15.11S.0124	o 162.15.11V.0124

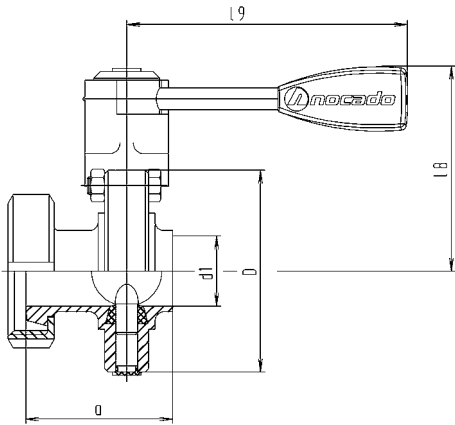
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11864 male / weld end, air/spr. (NC)(for tub. acc. DIN 11850 line 2)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	o 162.08.12E.0124	o 162.08.12H.0124	o 162.08.12S.0124	o 162.08.12V.0124
32	o 162.09.12E.0124	o 162.09.12H.0124	o 162.09.12S.0124	o 162.09.12V.0124
40	o 162.10.12E.0124	o 162.10.12H.0124	o 162.10.12S.0124	o 162.10.12V.0124
50	o 162.11.12E.0124	o 162.11.12H.0124	o 162.11.12S.0124	o 162.11.12V.0124
65	o 162.12.12E.0124	o 162.12.12H.0124	o 162.12.12S.0124	o 162.12.12V.0124
80	o 162.14.12E.0124	o 162.14.12H.0124	o 162.14.12S.0124	o 162.14.12V.0124
100	o 162.15.12E.0124	o 162.15.12H.0124	o 162.15.12S.0124	o 162.15.12V.0124

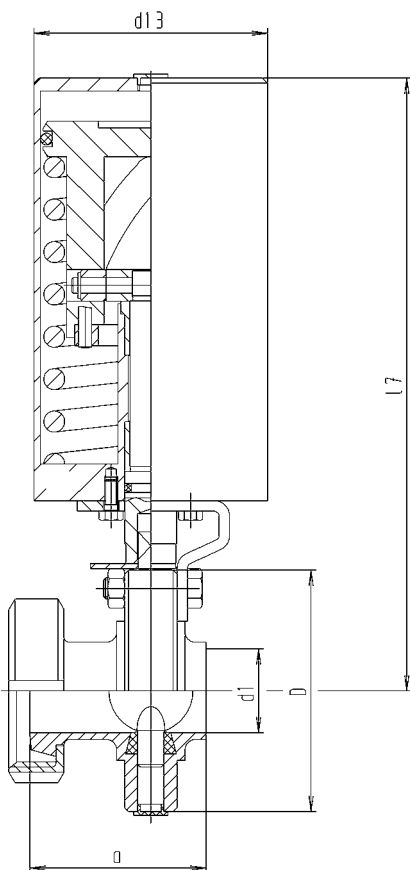
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, liner / weld end (for tub. acc. DIN 11850 line 2) (662N)



DN	a	d1	D	l8	l9	weight (kg)
25	62	26	87	89	132	1,640
32	67	32	92	91	132	1,810
40	76	38	97	94	132	2,070
50	78	50	110	100	132	2,670
65	82	66	127	109	132	3,220
80	97	81	142	124	165	5,620
100	108	100	162	135	165	7,360
125	146	125	200	162	216	10,660
150	161	150	230	177	216	13,310

butterfly valve, liner / weld end, air/spring (NC) (f. tub. acc. DIN 11850 line 2) (662N)



DN	a	d1	d13	D	l7	weight (kg)
25	62	26	89	87	231	4,590
32	67	32	89	92	234	4,780
40	76	38	89	97	236	5,030
50	78	50	89	110	242	5,660
65	82	66	89	127	251	6,250
80	97	81	89	142	260	8,280
100	108	100	89	162	270	10,050
125	146	125	133	200	369	18,600
150	161	150	133	230	384	21,310

butterfly valve, liner / weld end (for tub. acc. DIN 11850 line 2) (662N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 161.08.11E.0070	○ 161.08.11H.0070	○ 161.08.11S.0070	○ 161.08.11V.0070
32	○ 161.09.11E.0070	○ 161.09.11H.0070	○ 161.09.11S.0070	○ 161.09.11V.0070
40	○ 161.10.11E.0070	○ 161.10.11H.0070	○ 161.10.11S.0070	○ 161.10.11V.0070
50	○ 161.11.11E.0070	○ 161.11.11H.0070	○ 161.11.11S.0070	○ 161.11.11V.0070
65	○ 161.12.11E.0070	○ 161.12.11H.0070	○ 161.12.11S.0070	○ 161.12.11V.0070
80	○ 161.14.11E.0070	○ 161.14.11H.0070	○ 161.14.11S.0070	○ 161.14.11V.0070
100	○ 161.15.11E.0070	○ 161.15.11H.0070	○ 161.15.11S.0070	○ 161.15.11V.0070
125	○ 161.16.11E.0070	○ 161.16.11H.0070	○ 161.16.11S.0070	○ 161.16.11V.0070
150	○ 161.17.11E.0070	○ 161.17.11H.0070	○ 161.17.11S.0070	○ 161.17.11V.0070

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, liner / weld end (for tub. acc. DIN 11850 line 2) (662N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0070	○ 161.08.12H.0070	○ 161.08.12S.0070	○ 161.08.12V.0070
32	○ 161.09.12E.0070	○ 161.09.12H.0070	○ 161.09.12S.0070	○ 161.09.12V.0070
40	○ 161.10.12E.0070	○ 161.10.12H.0070	○ 161.10.12S.0070	○ 161.10.12V.0070
50	○ 161.11.12E.0070	○ 161.11.12H.0070	○ 161.11.12S.0070	○ 161.11.12V.0070
65	○ 161.12.12E.0070	○ 161.12.12H.0070	○ 161.12.12S.0070	○ 161.12.12V.0070
80	○ 161.14.12E.0070	○ 161.14.12H.0070	○ 161.14.12S.0070	○ 161.14.12V.0070
100	○ 161.15.12E.0070	○ 161.15.12H.0070	○ 161.15.12S.0070	○ 161.15.12V.0070
125	○ 161.16.12E.0070	○ 161.16.12H.0070	○ 161.16.12S.0070	○ 161.16.12V.0070
150	○ 161.17.12E.0070	○ 161.17.12H.0070	○ 161.17.12S.0070	○ 161.17.12V.0070

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, liner / weld end, air/spring (NC) (f. tub. acc. DIN 11850 line 2) (662N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 162.08.11E.0070	○ 162.08.11H.0070	○ 162.08.11S.0070	○ 162.08.11V.0070
32	○ 162.09.11E.0070	○ 162.09.11H.0070	○ 162.09.11S.0070	○ 162.09.11V.0070
40	○ 162.10.11E.0070	○ 162.10.11H.0070	○ 162.10.11S.0070	○ 162.10.11V.0070
50	○ 162.11.11E.0070	○ 162.11.11H.0070	○ 162.11.11S.0070	○ 162.11.11V.0070
65	○ 162.12.11E.0070	○ 162.12.11H.0070	○ 162.12.11S.0070	○ 162.12.11V.0070
80	○ 162.14.11E.0070	○ 162.14.11H.0070	○ 162.14.11S.0070	○ 162.14.11V.0070
100	○ 162.15.11E.0070	○ 162.15.11H.0070	○ 162.15.11S.0070	○ 162.15.11V.0070
125	○ 162.16.11E.0070	○ 162.16.11H.0070	○ 162.16.11S.0070	○ 162.16.11V.0070
150	○ 162.17.11E.0070	○ 162.17.11H.0070	○ 162.17.11S.0070	○ 162.17.11V.0070

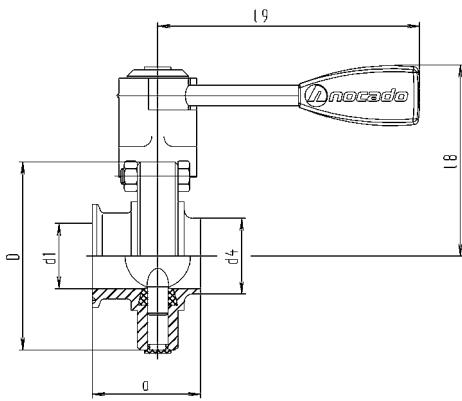
matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, liner / weld end, air/spring (NC) (f. tub. acc. DIN 11850 line 2) (662N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0070	○ 162.08.12H.0070	○ 162.08.12S.0070	○ 162.08.12V.0070
32	○ 162.09.12E.0070	○ 162.09.12H.0070	○ 162.09.12S.0070	○ 162.09.12V.0070
40	○ 162.10.12E.0070	○ 162.10.12H.0070	○ 162.10.12S.0070	○ 162.10.12V.0070
50	○ 162.11.12E.0070	○ 162.11.12H.0070	○ 162.11.12S.0070	○ 162.11.12V.0070
65	○ 162.12.12E.0070	○ 162.12.12H.0070	○ 162.12.12S.0070	○ 162.12.12V.0070
80	○ 162.14.12E.0070	○ 162.14.12H.0070	○ 162.14.12S.0070	○ 162.14.12V.0070
100	○ 162.15.12E.0070	○ 162.15.12H.0070	○ 162.15.12S.0070	○ 162.15.12V.0070
125	○ 162.16.12E.0070	○ 162.16.12H.0070	○ 162.16.12S.0070	○ 162.16.12V.0070
150	○ 162.17.12E.0070	○ 162.17.12H.0070	○ 162.17.12S.0070	○ 162.17.12V.0070

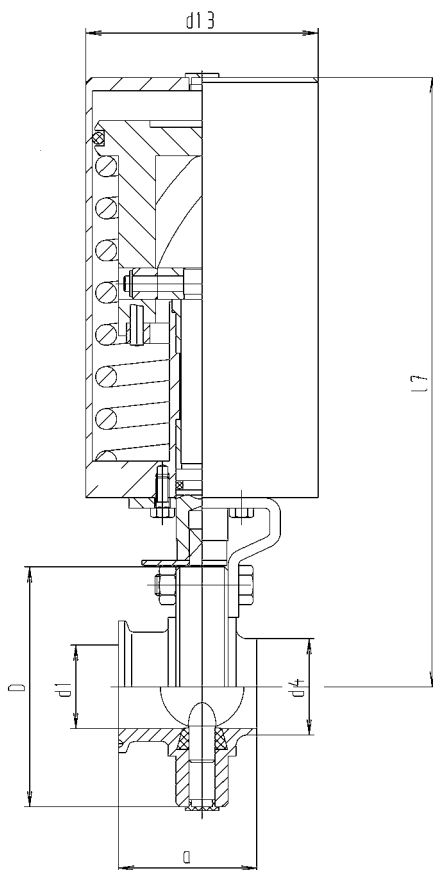
matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, clamp/ weld end (for tub. acc. DIN 11850 line 2) (642N)



DN	a	d1	d4	D	l8	l9	weight (kg)
25	52	26	29	87	89	132	1,380
32	53	32	35	92	91	132	1,480
40	61	38	41	97	94	132	1,570
50	61	50	53	110	100	132	1,870
65	63	66	70	127	109	132	2,280
80	80	81	85	142	124	165	4,150
100	84	100	104	162	135	165	5,020

butterfly valve, clamp/ weld end, air/spring (NC) (for tub. acc. DIN 11850 line 2) (642N)



DN	a	d1	d4	D	d13	l7	weight (kg)
25	52	26	29	87	89	231	4,330
32	53	32	35	92	89	234	4,450
40	61	38	41	97	89	236	4,530
50	61	50	53	110	89	242	4,860
65	63	66	70	127	89	251	5,310
80	80	81	85	142	89	260	6,810
100	84	100	104	162	89	270	7,710

butterfly valve, clamp/ weld end (for tub. acc. DIN 11850 line 2) (642N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 161.08.11E.0074	○ 161.08.11H.0074	○ 161.08.11S.0074	○ 161.08.11V.0074
32	○ 161.09.11E.0074	○ 161.09.11H.0074	○ 161.09.11S.0074	○ 161.09.11V.0074
40	○ 161.10.11E.0074	○ 161.10.11H.0074	○ 161.10.11S.0074	○ 161.10.11V.0074
50	○ 161.11.11E.0074	○ 161.11.11H.0074	○ 161.11.11S.0074	○ 161.11.11V.0074
65	○ 161.12.11E.0074	○ 161.12.11H.0074	○ 161.12.11S.0074	○ 161.12.11V.0074
80	○ 161.14.11E.0074	○ 161.14.11H.0074	○ 161.14.11S.0074	○ 161.14.11V.0074
100	○ 161.15.11E.0074	○ 161.15.11H.0074	○ 161.15.11S.0074	○ 161.15.11V.0074

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, clamp/ weld end (for tub. acc. DIN 11850 line 2) (642N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0074	○ 161.08.12H.0074	○ 161.08.12S.0074	○ 161.08.12V.0074
32	○ 161.09.12E.0074	○ 161.09.12H.0074	○ 161.09.12S.0074	○ 161.09.12V.0074
40	○ 161.10.12E.0074	○ 161.10.12H.0074	○ 161.10.12S.0074	○ 161.10.12V.0074
50	○ 161.11.12E.0074	○ 161.11.12H.0074	○ 161.11.12S.0074	○ 161.11.12V.0074
65	○ 161.12.12E.0074	○ 161.12.12H.0074	○ 161.12.12S.0074	○ 161.12.12V.0074
80	○ 161.14.12E.0074	○ 161.14.12H.0074	○ 161.14.12S.0074	○ 161.14.12V.0074
100	○ 161.15.12E.0074	○ 161.15.12H.0074	○ 161.15.12S.0074	○ 161.15.12V.0074

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, clamp/ weld end, air/spring (NC) (for tub. acc. DIN 11850 line 2) (642N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 162.08.11E.0074	○ 162.08.11H.0074	○ 162.08.11S.0074	○ 162.08.11V.0074
32	○ 162.09.11E.0074	○ 162.09.11H.0074	○ 162.09.11S.0074	○ 162.09.11V.0074
40	○ 162.10.11E.0074	○ 162.10.11H.0074	○ 162.10.11S.0074	○ 162.10.11V.0074
50	○ 162.11.11E.0074	○ 162.11.11H.0074	○ 162.11.11S.0074	○ 162.11.11V.0074
65	○ 162.12.11E.0074	○ 162.12.11H.0074	○ 162.12.11S.0074	○ 162.12.11V.0074
80	○ 162.14.11E.0074	○ 162.14.11H.0074	○ 162.14.11S.0074	○ 162.14.11V.0074
100	○ 162.15.11E.0074	○ 162.15.11H.0074	○ 162.15.11S.0074	○ 162.15.11V.0074

matt finish: at 6th position use a digit 2 in the ident number

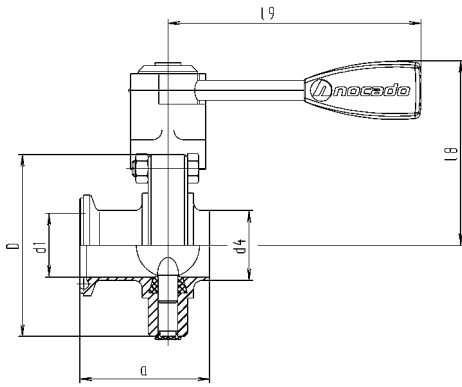
butterfly valve, clamp/ weld end, air/spring (NC) (for tub. acc. DIN 11850 line 2) (642N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0074	○ 162.08.12H.0074	○ 162.08.12S.0074	○ 162.08.12V.0074
32	○ 162.09.12E.0074	○ 162.09.12H.0074	○ 162.09.12S.0074	○ 162.09.12V.0074
40	○ 162.10.12E.0074	○ 162.10.12H.0074	○ 162.10.12S.0074	○ 162.10.12V.0074
50	○ 162.11.12E.0074	○ 162.11.12H.0074	○ 162.11.12S.0074	○ 162.11.12V.0074
65	○ 162.12.12E.0074	○ 162.12.12H.0074	○ 162.12.12S.0074	○ 162.12.12V.0074
80	○ 162.14.12E.0074	○ 162.14.12H.0074	○ 162.14.12S.0074	○ 162.14.12V.0074
100	○ 162.15.12E.0074	○ 162.15.12H.0074	○ 162.15.12S.0074	○ 162.15.12V.0074

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, DIN 11864, clamp/ weld end (for tub. acc. DIN 11850 line 2)

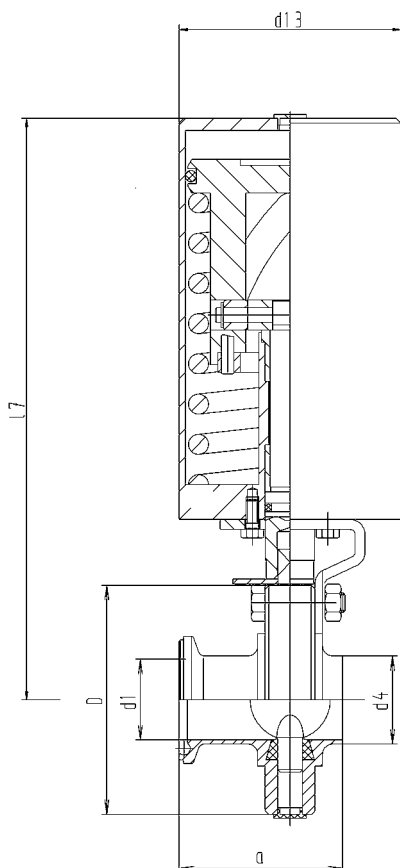
nocapius



DN	a	d1	d4	D	l8	l9	weight (kg)
25	63	26	29	87	89	132	1,410
32	65	32	35	92	91	132	1,480
40	73	38	41	97	94	132	1,568
50	73	50	53	110	100	132	1,870
65	79	66	70	127	109	132	2,342
80	89	81	85	142	124	165	4,178
100	93	100	104	162	135	165	5,024

butterfly valve, DIN 11864, clamp/ weld end, air/spr. (NC)(for tub. acc. DIN 11850 line 2)

nocapius



DN	a	d1	d4	D	d13	l7	weight (kg)
25	63	26	29	87	89	231	4,360
32	65	32	35	92	89	234	4,380
40	73	38	41	97	89	236	4,528
50	73	50	53	110	89	242	4,860
65	79	66	70	127	89	251	5,372
80	89	81	85	142	89	260	6,838
100	93	100	104	162	89	270	7,684

butterfly valve, DIN 11864, clamp/ weld end (for tub. acc. DIN 11850 line 2)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	o 161.08.11E.0129	o 161.08.11H.0129	o 161.08.11S.0129	o 161.08.11V.0129
32	o 161.09.11E.0129	o 161.09.11H.0129	o 161.09.11S.0129	o 161.09.11V.0129
40	o 161.10.11E.0129	o 161.10.11H.0129	o 161.10.11S.0129	o 161.10.11V.0129
50	o 161.11.11E.0129	o 161.11.11H.0129	o 161.11.11S.0129	o 161.11.11V.0129
65	o 161.12.11E.0129	o 161.12.11H.0129	o 161.12.11S.0129	o 161.12.11V.0129
80	o 161.14.11E.0129	o 161.14.11H.0129	o 161.14.11S.0129	o 161.14.11V.0129
100	o 161.15.11E.0129	o 161.15.11H.0129	o 161.15.11S.0129	o 161.15.11V.0129

butterfly valve, DIN 11864, clamp/ weld end (for tub. acc. DIN 11850 line 2)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	o 161.08.12E.0129	o 161.08.12H.0129	o 161.08.12S.0129	o 161.08.12V.0129
32	o 161.09.12E.0129	o 161.09.12H.0129	o 161.09.12S.0129	o 161.09.12V.0129
40	o 161.10.12E.0129	o 161.10.12H.0129	o 161.10.12S.0129	o 161.10.12V.0129
50	o 161.11.12E.0129	o 161.11.12H.0129	o 161.11.12S.0129	o 161.11.12V.0129
65	o 161.12.12E.0129	o 161.12.12H.0129	o 161.12.12S.0129	o 161.12.12V.0129
80	o 161.14.12E.0129	o 161.14.12H.0129	o 161.14.12S.0129	o 161.14.12V.0129
100	o 161.15.12E.0129	o 161.15.12H.0129	o 161.15.12S.0129	o 161.15.12V.0129

butterfly valve, DIN 11864, clamp/ weld end, air/spr. (NC)(for tub. acc. DIN 11850 line 2)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	o 162.08.11E.0129	o 162.08.11H.0129	o 162.08.11S.0129	o 162.08.11V.0129
32	o 162.09.11E.0129	o 162.09.11H.0129	o 162.09.11S.0129	o 162.09.11V.0129
40	o 162.10.11E.0129	o 162.10.11H.0129	o 162.10.11S.0129	o 162.10.11V.0129
50	o 162.11.11E.0129	o 162.11.11H.0129	o 162.11.11S.0129	o 162.11.11V.0129
65	o 162.12.11E.0129	o 162.12.11H.0129	o 162.12.11S.0129	o 162.12.11V.0129
80	o 162.14.11E.0129	o 162.14.11H.0129	o 162.14.11S.0129	o 162.14.11V.0129
100	o 162.15.11E.0129	o 162.15.11H.0129	o 162.15.11S.0129	o 162.15.11V.0129

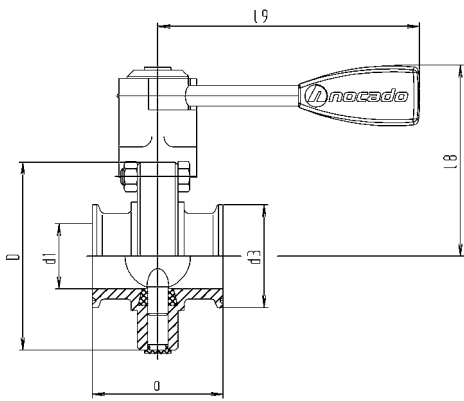
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11864, clamp/ weld end, air/spr. (NC)(for tub. acc. DIN 11850 line 2)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	o 162.08.12E.0129	o 162.08.12H.0129	o 162.08.12S.0129	o 162.08.12V.0129
32	o 162.09.12E.0129	o 162.09.12H.0129	o 162.09.12S.0129	o 162.09.12V.0129
40	o 162.10.12E.0129	o 162.10.12H.0129	o 162.10.12S.0129	o 162.10.12V.0129
50	o 162.11.12E.0129	o 162.11.12H.0129	o 162.11.12S.0129	o 162.11.12V.0129
65	o 162.12.12E.0129	o 162.12.12H.0129	o 162.12.12S.0129	o 162.12.12V.0129
80	o 162.14.12E.0129	o 162.14.12H.0129	o 162.14.12S.0129	o 162.14.12V.0129
100	o 162.15.12E.0129	o 162.15.12H.0129	o 162.15.12S.0129	o 162.15.12V.0129

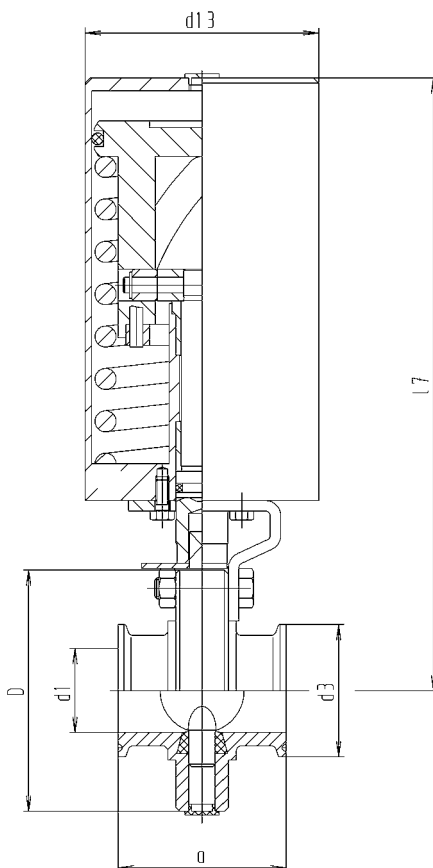
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, clamp/clamp, DIN (644)



DN	a	d1	d3	D	l8	l9	weight (kg)
25	64	26	50,5	87	89	132	1,450
32	64	32	50,5	92	91	132	1,550
40	72	38	50,5	97	94	132	1,620
50	72	50	64	110	100	132	1,940
65	76	66	91	127	109	132	2,380
80	100	81	106	142	124	165	4,350
100	104	100	119	162	135	165	5,240

butterfly valve, clamp/clamp, air/spring (NC), DIN (644)



DN	a	d1	d3	D	d13	l7	weight (kg)
25	64	26	50,5	87	89	231	4,400
32	64	32	50,5	92	89	234	4,520
40	72	38	50,5	97	89	236	4,580
50	72	50	64	110	89	242	4,930
65	76	66	91	127	89	251	5,410
80	100	81	106	142	89	260	7,010
100	104	100	119	162	89	270	7,930

butterfly valve, clamp/clamp, DIN (644)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	● 161.08.11E.0024	● 161.08.11H.0024	● 161.08.11S.0024	● 161.08.11V.0024
32	○ 161.09.11E.0024	○ 161.09.11H.0024	○ 161.09.11S.0024	○ 161.09.11V.0024
40	● 161.10.11E.0024	● 161.10.11H.0024	● 161.10.11S.0024	● 161.10.11V.0024
50	● 161.11.11E.0024	● 161.11.11H.0024	● 161.11.11S.0024	● 161.11.11V.0024
65	● 161.12.11E.0024	● 161.12.11H.0024	● 161.12.11S.0024	● 161.12.11V.0024
80	● 161.14.11E.0024	● 161.14.11H.0024	● 161.14.11S.0024	● 161.14.11V.0024
100	● 161.15.11E.0024	● 161.15.11H.0024	● 161.15.11S.0024	● 161.15.11V.0024

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, clamp/clamp, DIN (644)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	● 161.08.12E.0024	● 161.08.12H.0024	● 161.08.12S.0024	● 161.08.12V.0024
32	○ 161.09.12E.0024	○ 161.09.12H.0024	○ 161.09.12S.0024	○ 161.09.12V.0024
40	● 161.10.12E.0024	● 161.10.12H.0024	● 161.10.12S.0024	● 161.10.12V.0024
50	● 161.11.12E.0024	● 161.11.12H.0024	● 161.11.12S.0024	● 161.11.12V.0024
65	● 161.12.12E.0024	● 161.12.12H.0024	● 161.12.12S.0024	● 161.12.12V.0024
80	● 161.14.12E.0024	● 161.14.12H.0024	● 161.14.12S.0024	● 161.14.12V.0024
100	● 161.15.12E.0024	● 161.15.12H.0024	● 161.15.12S.0024	● 161.15.12V.0024

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, clamp/clamp, air/spring (NC), DIN (644)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	● 162.08.11E.0024	● 162.08.11H.0024	● 162.08.11S.0024	● 162.08.11V.0024
32	○ 162.09.11E.0024	○ 162.09.11H.0024	○ 162.09.11S.0024	○ 162.09.11V.0024
40	● 162.10.11E.0024	● 162.10.11H.0024	● 162.10.11S.0024	● 162.10.11V.0024
50	● 162.11.11E.0024	● 162.11.11H.0024	● 162.11.11S.0024	● 162.11.11V.0024
65	● 162.12.11E.0024	● 162.12.11H.0024	● 162.12.11S.0024	● 162.12.11V.0024
80	● 162.14.11E.0024	● 162.14.11H.0024	● 162.14.11S.0024	● 162.14.11V.0024
100	● 162.15.11E.0024	● 162.15.11H.0024	● 162.15.11S.0024	● 162.15.11V.0024

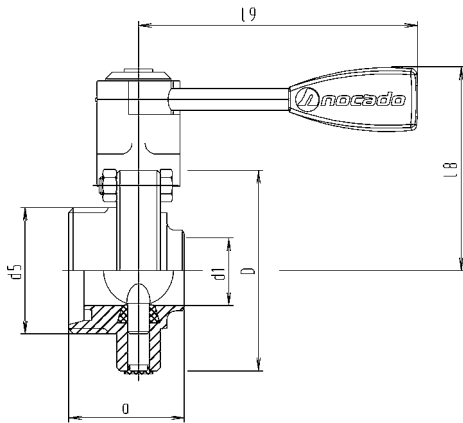
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, clamp/clamp, air/spring (NC), DIN (644)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	● 162.08.12E.0024	● 162.08.12H.0024	● 162.08.12S.0024	● 162.08.12V.0024
32	○ 162.09.12E.0024	○ 162.09.12H.0024	○ 162.09.12S.0024	○ 162.09.12V.0024
40	● 162.10.12E.0024	● 162.10.12H.0024	● 162.10.12S.0024	● 162.10.12V.0024
50	● 162.11.12E.0024	● 162.11.12H.0024	● 162.11.12S.0024	● 162.11.12V.0024
65	● 162.12.12E.0024	● 162.12.12H.0024	● 162.12.12S.0024	● 162.12.12V.0024
80	● 162.14.12E.0024	● 162.14.12H.0024	● 162.14.12S.0024	● 162.14.12V.0024
100	● 162.15.12E.0024	● 162.15.12H.0024	● 162.15.12S.0024	● 162.15.12V.0024

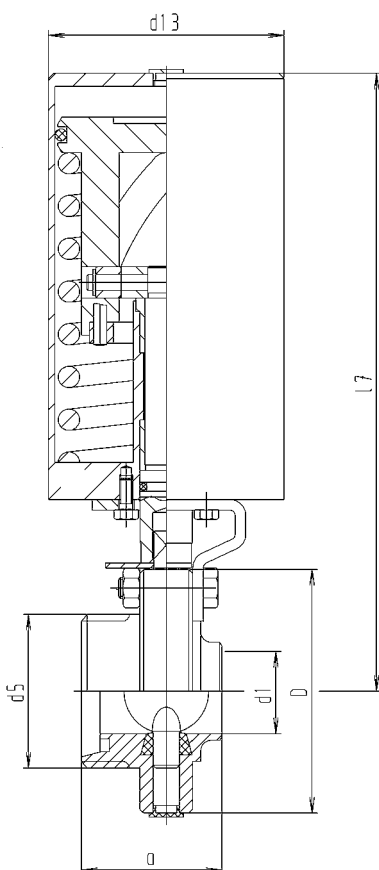
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11851 male / weld end, (acc.din 11850) (652)



DN	a	d1	d5	D	l8	l9	weight (kg)
25	52	26	52x1/6"	87	89	132	1,490
32	53	32	58x1/6"	92	91	132	1,580
40	61	38	65x1/6"	97	94	132	1,780
50	61	50	78x1/6"	110	100	132	2,120
65	63	66	95x1/6"	127	109	132	2,560
80	80	81	110x1/4"	142	124	165	4,620
100	84	100	130x1/4"	162	135	165	5,600
125	112	125	160x1/4"	200	162	216	9,200
150	124	150	190x1/4"	230	177	216	12,200

butterfly valve, male / weld end, air/spring (NC) (for tubing acc.din 11850)



DN	a	d1	d5	D	d13	l7	weight (kg)
25	52	26	52x1/6"	87	89	231	4,440
32	53	32	58x1/6"	92	89	234	4,550
40	61	38	65x1/6"	97	89	236	4,740
50	61	50	78x1/6"	110	89	242	5,110
65	63	66	95x1/6"	127	89	251	5,590
80	80	81	110x1/4"	142	89	260	7,280
100	84	100	130x1/4"	162	89	270	8,290
125	112	125	160x1/4"	200	133	369	17,140
150	124	150	190x1/4"	230	133	384	20,200

butterfly valve, DIN 11851 male / weld end, (acc.din 11850) (652)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	● 161.08.11E.0004	● 161.08.11H.0004	● 161.08.11S.0004	● 161.08.11V.0004
32	● 161.09.11E.0004	● 161.09.11H.0004	● 161.09.11S.0004	● 161.09.11V.0004
40	● 161.10.11E.0004	● 161.10.11H.0004	● 161.10.11S.0004	● 161.10.11V.0004
50	● 161.11.11E.0004	● 161.11.11H.0004	● 161.11.11S.0004	● 161.11.11V.0004
65	● 161.12.11E.0004	● 161.12.11H.0004	● 161.12.11S.0004	● 161.12.11V.0004
80	● 161.14.11E.0004	● 161.14.11H.0004	● 161.14.11S.0004	● 161.14.11V.0004
100	● 161.15.11E.0004	● 161.15.11H.0004	● 161.15.11S.0004	● 161.15.11V.0004
125	○ 161.16.11E.0004	○ 161.16.11H.0004	○ 161.16.11S.0004	○ 161.16.11V.0004
150	○ 161.17.11E.0004	○ 161.17.11H.0004	○ 161.17.11S.0004	○ 161.17.11V.0004

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, DIN 11851 male / weld end, (acc.din 11850) (652)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	● 161.08.12E.0004	● 161.08.12H.0004	● 161.08.12S.0004	● 161.08.12V.0004
32	● 161.09.12E.0004	● 161.09.12H.0004	● 161.09.12S.0004	● 161.09.12V.0004
40	● 161.10.12E.0004	● 161.10.12H.0004	● 161.10.12S.0004	● 161.10.12V.0004
50	● 161.11.12E.0004	● 161.11.12H.0004	● 161.11.12S.0004	● 161.11.12V.0004
65	● 161.12.12E.0004	● 161.12.12H.0004	● 161.12.12S.0004	● 161.12.12V.0004
80	● 161.14.12E.0004	● 161.14.12H.0004	● 161.14.12S.0004	● 161.14.12V.0004
100	● 161.15.12E.0004	● 161.15.12H.0004	● 161.15.12S.0004	● 161.15.12V.0004
125	○ 161.16.12E.0004	○ 161.16.12H.0004	○ 161.16.12S.0004	○ 161.16.12V.0004
150	○ 161.17.12E.0004	○ 161.17.12H.0004	○ 161.17.12S.0004	○ 161.17.12V.0004

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male / weld end, air/spring (NC) (for tubing acc.din 11850)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	● 162.08.11E.0004	● 162.08.11H.0004	● 162.08.11S.0004	● 162.08.11V.0004
32	● 162.09.11E.0004	● 162.09.11H.0004	● 162.09.11S.0004	● 162.09.11V.0004
40	● 162.10.11E.0004	● 162.10.11H.0004	● 162.10.11S.0004	● 162.10.11V.0004
50	● 162.11.11E.0004	● 162.11.11H.0004	● 162.11.11S.0004	● 162.11.11V.0004
65	● 162.12.11E.0004	● 162.12.11H.0004	● 162.12.11S.0004	● 162.12.11V.0004
80	● 162.14.11E.0004	● 162.14.11H.0004	● 162.14.11S.0004	● 162.14.11V.0004
100	● 162.15.11E.0004	● 162.15.11H.0004	● 162.15.11S.0004	● 162.15.11V.0004
125	○ 162.16.11E.0004	○ 162.16.11H.0004	○ 162.16.11S.0004	○ 162.16.11V.0004
150	○ 162.17.11E.0004	○ 162.17.11H.0004	○ 162.17.11S.0004	○ 162.17.11V.0004

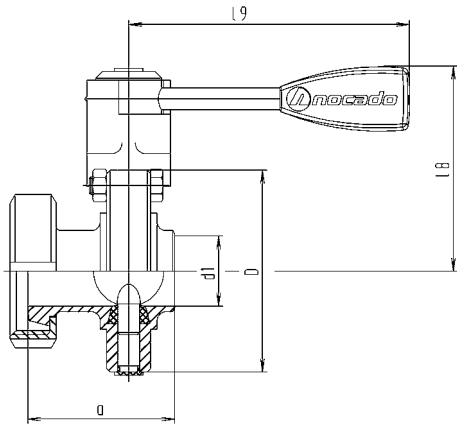
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male / weld end, air/spring (NC) (for tubing acc.din 11850)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	● 162.08.12E.0004	● 162.08.12H.0004	● 162.08.12S.0004	● 162.08.12V.0004
32	● 162.09.12E.0004	● 162.09.12H.0004	● 162.09.12S.0004	● 162.09.12V.0004
40	● 162.10.12E.0004	● 162.10.12H.0004	● 162.10.12S.0004	● 162.10.12V.0004
50	● 162.11.12E.0004	● 162.11.12H.0004	● 162.11.12S.0004	● 162.11.12V.0004
65	● 162.12.12E.0004	● 162.12.12H.0004	● 162.12.12S.0004	● 162.12.12V.0004
80	● 162.14.12E.0004	● 162.14.12H.0004	● 162.14.12S.0004	● 162.14.12V.0004
100	● 162.15.12E.0004	● 162.15.12H.0004	● 162.15.12S.0004	● 162.15.12V.0004
125	○ 162.16.12E.0004	○ 162.16.12H.0004	○ 162.16.12S.0004	○ 162.16.12V.0004
150	○ 162.17.12E.0004	○ 162.17.12H.0004	○ 162.17.12S.0004	○ 162.17.12V.0004

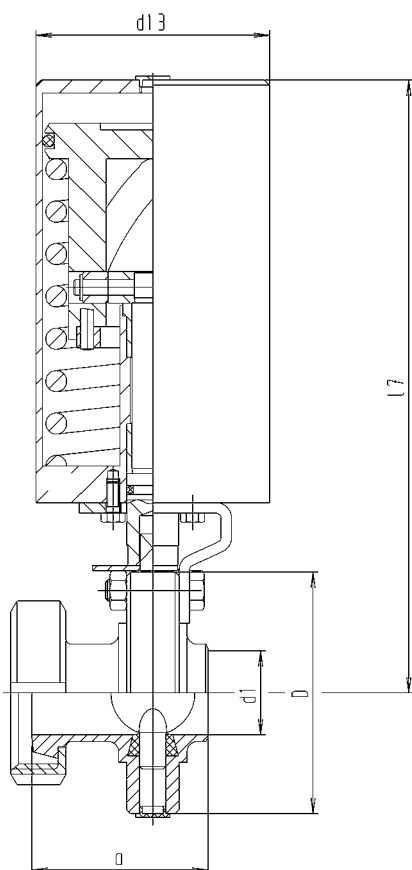
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, liner / weld end (acc.din 11850) (662N)



DN	a	d1	D	l8	l9	weight (kg)
25	62	26	87	89	132	1,640
32	67	32	92	91	132	1,810
40	76	38	97	94	132	2,070
50	78	50	110	100	132	2,670
65	82	66	127	109	132	3,220
80	97	81	142	124	165	5,620
100	108	100	162	135	165	7,360
125	146	125	200	162	216	10,660
150	161	150	230	177	216	13,310

butterfly valve, liner / weld end, air/spring (NC)(acc. DIN 11850)



DN	a	d1	D	d13	l7	weight (kg)
25	62	26	87	89	231	4,590
32	67	32	92	89	234	4,780
40	76	38	97	89	236	5,030
50	78	50	110	89	242	5,660
65	82	66	127	89	251	6,250
80	97	81	142	89	260	8,280
100	108	100	162	89	270	10,050
125	146	125	200	133	369	16,600
150	161	150	230	133	384	23,310

butterfly valve, liner / weld end (acc.din 11850) (662N)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	● 161.08.11E.0022	● 161.08.11H.0022	● 161.08.11S.0022	● 161.08.11V.0022
32	● 161.09.11E.0022	● 161.09.11H.0022	● 161.09.11S.0022	● 161.09.11V.0022
40	● 161.10.11E.0022	● 161.10.11H.0022	● 161.10.11S.0022	● 161.10.11V.0022
50	● 161.11.11E.0022	● 161.11.11H.0022	● 161.11.11S.0022	● 161.11.11V.0022
65	● 161.12.11E.0022	● 161.12.11H.0022	● 161.12.11S.0022	● 161.12.11V.0022
80	● 161.14.11E.0022	● 161.14.11H.0022	● 161.14.11S.0022	● 161.14.11V.0022
100	● 161.15.11E.0022	● 161.15.11H.0022	● 161.15.11S.0022	● 161.15.11V.0022
125	○ 161.16.11E.0022	○ 161.16.11H.0022	○ 161.16.11S.0022	○ 161.16.11V.0022
150	○ 161.17.11E.0022	○ 161.17.11H.0022	○ 161.17.11S.0022	○ 161.17.11V.0022

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, liner / weld end (acc.din 11850) (662N)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	● 161.08.12E.0022	● 161.08.12H.0022	● 161.08.12S.0022	● 161.08.12V.0022
32	● 161.09.12E.0022	● 161.09.12H.0022	● 161.09.12S.0022	● 161.09.12V.0022
40	● 161.10.12E.0022	● 161.10.12H.0022	● 161.10.12S.0022	● 161.10.12V.0022
50	● 161.11.12E.0022	● 161.11.12H.0022	● 161.11.12S.0022	● 161.11.12V.0022
65	● 161.12.12E.0022	● 161.12.12H.0022	● 161.12.12S.0022	● 161.12.12V.0022
80	● 161.14.12E.0022	● 161.14.12H.0022	● 161.14.12S.0022	● 161.14.12V.0022
100	● 161.15.12E.0022	● 161.15.12H.0022	● 161.15.12S.0022	● 161.15.12V.0022
125	○ 161.16.12E.0022	○ 161.16.12H.0022	○ 161.16.12S.0022	○ 161.16.12V.0022
150	○ 161.17.12E.0022	○ 161.17.12H.0022	○ 161.17.12S.0022	○ 161.17.12V.0022

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, liner / weld end, air/spring (NC)(acc. DIN 11850)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	● 162.08.11E.0022	● 162.08.11H.0022	● 162.08.11S.0022	● 162.08.11V.0022
32	● 162.09.11E.0022	● 162.09.11H.0022	● 162.09.11S.0022	● 162.09.11V.0022
40	● 162.10.11E.0022	● 162.10.11H.0022	● 162.10.11S.0022	● 162.10.11V.0022
50	● 162.11.11E.0022	● 162.11.11H.0022	● 162.11.11S.0022	● 162.11.11V.0022
65	● 162.12.11E.0022	● 162.12.11H.0022	● 162.12.11S.0022	● 162.12.11V.0022
80	● 162.14.11E.0022	● 162.14.11H.0022	● 162.14.11S.0022	● 162.14.11V.0022
100	● 162.15.11E.0022	● 162.15.11H.0022	● 162.15.11S.0022	● 162.15.11V.0022
125	○ 162.16.11E.0022	○ 162.16.11H.0022	○ 162.16.11S.0022	○ 162.16.11V.0022
150	○ 162.17.11E.0022	○ 162.17.11H.0022	○ 162.17.11S.0022	○ 162.17.11V.0022

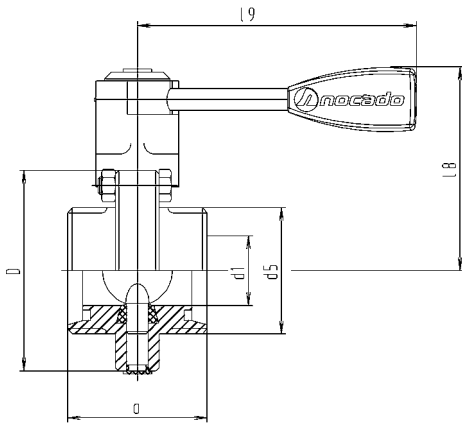
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, liner / weld end, air/spring (NC)(acc. DIN 11850)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	● 162.08.12E.0022	● 162.08.12H.0022	● 162.08.12S.0022	● 162.08.12V.0022
32	● 162.09.12E.0022	● 162.09.12H.0022	● 162.09.12S.0022	● 162.09.12V.0022
40	● 162.10.12E.0022	● 162.10.12H.0022	● 162.10.12S.0022	● 162.10.12V.0022
50	● 162.11.12E.0022	● 162.11.12H.0022	● 162.11.12S.0022	● 162.11.12V.0022
65	● 162.12.12E.0022	● 162.12.12H.0022	● 162.12.12S.0022	● 162.12.12V.0022
80	● 162.14.12E.0022	● 162.14.12H.0022	● 162.14.12S.0022	● 162.14.12V.0022
100	● 162.15.12E.0022	● 162.15.12H.0022	● 162.15.12S.0022	● 162.15.12V.0022
125	○ 162.16.12E.0022	○ 162.16.12H.0022	○ 162.16.12S.0022	○ 162.16.12V.0022
150	○ 162.17.12E.0022	○ 162.17.12H.0022	○ 162.17.12S.0022	○ 162.17.12V.0022

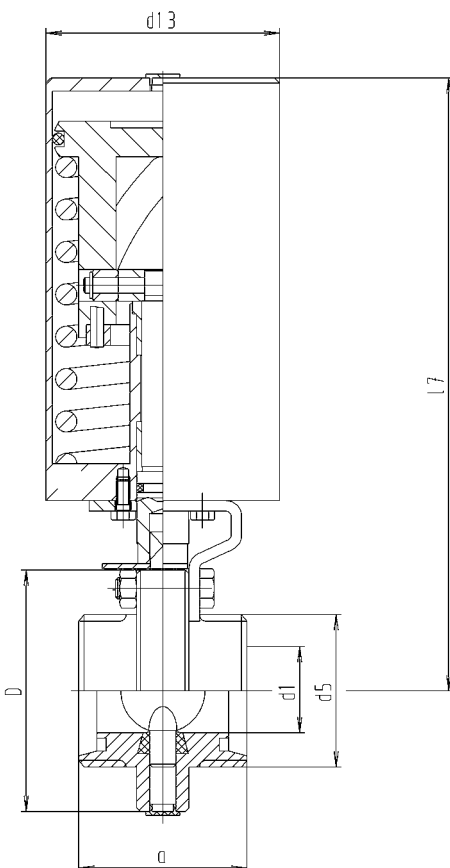
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11851 male /male inside dia. acc. DIN 11850 (655)



DN	a	d1	d5	D	l8	l9	weight (kg)
20	64	20	44x1/6"	87	89	102	1,650
25	64	26	52x1/6"	87	89	132	1,650
32	64	32	58x1/6"	92	91	132	1,750
40	72	38	65x1/6"	97	94	132	2,020
50	72	50	78x1/6"	110	100	132	2,400
65	76	66	95x1/6"	127	109	132	3,050
80	100	81	110x1/4"	142	124	165	5,150
100	104	100	130x1/4"	162	135	165	6,500
125	112	125	160x1/4"	200	162	216	10,200
150	124	150	190x1/4"	230	177	216	13,900

butterfly valve, DIN 11851 male /male, air/spring (NC) inside dia. acc. DIN 11850



DN	a	d1	d5	D	d13	l7	weight (kg)
20	64	20	44x1/6"	87	89	231	4,600
25	64	26	52x1/6"	87	89	231	4,600
32	64	32	58x1/6"	92	89	234	4,720
40	72	38	65x1/6"	97	89	236	4,980
50	72	50	78x1/6"	110	89	242	5,390
65	76	66	95x1/6"	127	89	251	6,080
80	100	81	110x1/4"	142	89	260	7,810
100	104	100	130x1/4"	162	89	270	9,190
125	112	125	160x1/4"	200	133	369	18,140
150	124	150	190x1/4"	230	133	384	21,900

butterfly valve, DIN 11851 male/male inside dia. acc. DIN 11850 (655)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
20	○ 161.07.11E.0010	○ 161.07.11H.0010	○ 161.07.11S.0010	○ 161.07.11V.0010
25	● 161.08.11E.0010	● 161.08.11H.0010	● 161.08.11S.0010	● 161.08.11V.0010
32	● 161.09.11E.0010	● 161.09.11H.0010	● 161.09.11S.0010	● 161.09.11V.0010
40	● 161.10.11E.0010	● 161.10.11H.0010	● 161.10.11S.0010	● 161.10.11V.0010
50	● 161.11.11E.0010	● 161.11.11H.0010	● 161.11.11S.0010	● 161.11.11V.0010
65	● 161.12.11E.0010	● 161.12.11H.0010	● 161.12.11S.0010	● 161.12.11V.0010
80	● 161.14.11E.0010	● 161.14.11H.0010	● 161.14.11S.0010	● 161.14.11V.0010
100	● 161.15.11E.0010	● 161.15.11H.0010	● 161.15.11S.0010	● 161.15.11V.0010
125	○ 161.16.11E.0010	○ 161.16.11H.0010	○ 161.16.11S.0010	○ 161.16.11V.0010
150	○ 161.17.11E.0010	○ 161.17.11H.0010	○ 161.17.11S.0010	○ 161.17.11V.0010

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, DIN 11851 male/male inside dia. acc. DIN 11850 (655)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
20	○ 161.07.12E.0010	○ 161.07.12H.0010	○ 161.07.12S.0010	○ 161.07.12V.0010
25	● 161.08.12E.0010	● 161.08.12H.0010	● 161.08.12S.0010	● 161.08.12V.0010
32	● 161.09.12E.0010	● 161.09.12H.0010	● 161.09.12S.0010	● 161.09.12V.0010
40	● 161.10.12E.0010	● 161.10.12H.0010	● 161.10.12S.0010	● 161.10.12V.0010
50	● 161.11.12E.0010	● 161.11.12H.0010	● 161.11.12S.0010	● 161.11.12V.0010
65	● 161.12.12E.0010	● 161.12.12H.0010	● 161.12.12S.0010	● 161.12.12V.0010
80	● 161.14.12E.0010	● 161.14.12H.0010	● 161.14.12S.0010	● 161.14.12V.0010
100	● 161.15.12E.0010	● 161.15.12H.0010	● 161.15.12S.0010	● 161.15.12V.0010
125	○ 161.16.12E.0010	○ 161.16.12H.0010	○ 161.16.12S.0010	○ 161.16.12V.0010
150	○ 161.17.12E.0010	○ 161.17.12H.0010	○ 161.17.12S.0010	○ 161.17.12V.0010

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, DIN 11851 male/male, air/spring (NC) inside dia. acc. DIN 11850

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
20	○ 162.07.11E.0010	○ 162.07.11H.0010	○ 162.07.11S.0010	○ 162.07.11V.0010
25	● 162.08.11E.0010	● 162.08.11H.0010	● 162.08.11S.0010	● 162.08.11V.0010
32	● 162.09.11E.0010	● 162.09.11H.0010	● 162.09.11S.0010	● 162.09.11V.0010
40	● 162.10.11E.0010	● 162.10.11H.0010	● 162.10.11S.0010	● 162.10.11V.0010
50	● 162.11.11E.0010	● 162.11.11H.0010	● 162.11.11S.0010	● 162.11.11V.0010
65	● 162.12.11E.0010	● 162.12.11H.0010	● 162.12.11S.0010	● 162.12.11V.0010
80	● 162.14.11E.0010	● 162.14.11H.0010	● 162.14.11S.0010	● 162.14.11V.0010
100	● 162.15.11E.0010	● 162.15.11H.0010	● 162.15.11S.0010	● 162.15.11V.0010
125	○ 162.16.11E.0010	○ 162.16.11H.0010	○ 162.16.11S.0010	○ 162.16.11V.0010
150	○ 162.17.11E.0010	○ 162.17.11H.0010	○ 162.17.11S.0010	○ 162.17.11V.0010

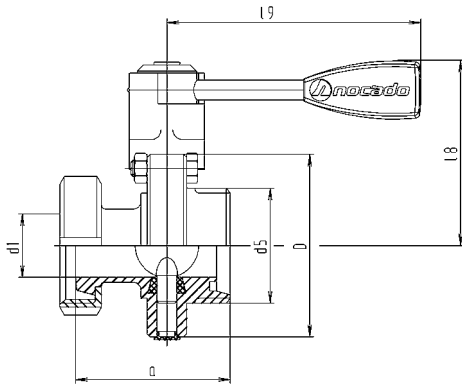
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11851 male/male, air/spring (NC) inside dia. acc. DIN 11850

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
20	○ 162.07.12E.0010	○ 162.07.12H.0010	○ 162.07.12S.0010	○ 162.07.12V.0010
25	● 162.08.12E.0010	● 162.08.12H.0010	● 162.08.12S.0010	● 162.08.12V.0010
32	● 162.09.12E.0010	● 162.09.12H.0010	● 162.09.12S.0010	● 162.09.12V.0010
40	● 162.10.12E.0010	● 162.10.12H.0010	● 162.10.12S.0010	● 162.10.12V.0010
50	● 162.11.12E.0010	● 162.11.12H.0010	● 162.11.12S.0010	● 162.11.12V.0010
65	● 162.12.12E.0010	● 162.12.12H.0010	● 162.12.12S.0010	● 162.12.12V.0010
80	● 162.14.12E.0010	● 162.14.12H.0010	● 162.14.12S.0010	● 162.14.12V.0010
100	● 162.15.12E.0010	● 162.15.12H.0010	● 162.15.12S.0010	● 162.15.12V.0010
125	○ 162.16.12E.0010	○ 162.16.12H.0010	○ 162.16.12S.0010	○ 162.16.12V.0010
150	○ 162.17.12E.0010	○ 162.17.12H.0010	○ 162.17.12S.0010	○ 162.17.12V.0010

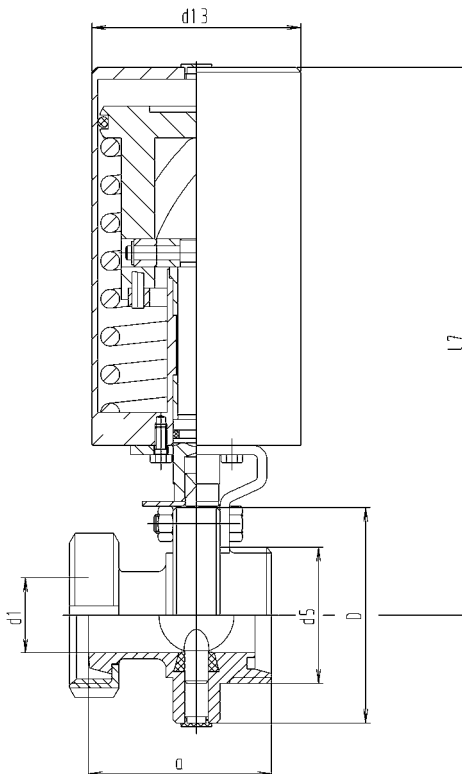
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11851 male /liner, inside dia. acc. DIN 11850 (656)



DN	a	d1	d5	D	l8	l9	weight (kg)
20	70	20	44x1/6"	87	89	102	1,760
25	74	26	52x1/6"	87	89	132	1,760
32	78	32	58x1/6"	92	91	132	1,900
40	87	38	65x1/6"	97	94	132	2,180
50	89	50	78x1/6"	110	100	132	2,650
65	95	66	95x1/6"	127	109	132	3,410
80	117	81	110x1/4"	142	124	165	5,620
100	128	100	130x1/4"	162	135	165	7,100
125	146	125	160x1/4"	200	162	216	11,400
150	161	150	190x1/4"	230	177	216	15,600

butterfly valve, DIN 11851 male /liner, air/spr. (NC), inside dia. acc. DIN 11850 (656)



DN	a	d1	d5	D	d13	l7	weight (kg)
20	70	20	44x1/6"	87	89	231	4,710
25	74	26	52x1/6"	87	89	231	4,710
32	78	32	58x1/6"	92	89	234	4,870
40	87	38	65x1/6"	97	89	236	5,140
50	89	50	78x1/6"	110	89	242	5,640
65	95	66	95x1/6"	127	89	251	6,640
80	117	81	110x1/4"	142	89	260	8,280
100	128	100	130x1/4"	162	89	270	9,790
125	146	125	160x1/4"	200	133	369	19,340
150	161	150	190x1/4"	230	133	384	23,600

butterfly valve, DIN 11851 male /liner, inside dia. acc. DIN 11850 (656)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
20	○ 161.07.11E.0020	○ 161.07.11H.0020	○ 161.07.11S.0020	○ 161.07.11V.0020
25	● 161.08.11E.0020	● 161.08.11H.0020	● 161.08.11S.0020	● 161.08.11V.0020
32	● 161.09.11E.0020	● 161.09.11H.0020	● 161.09.11S.0020	● 161.09.11V.0020
40	● 161.10.11E.0020	● 161.10.11H.0020	● 161.10.11S.0020	● 161.10.11V.0020
50	● 161.11.11E.0020	● 161.11.11H.0020	● 161.11.11S.0020	● 161.11.11V.0020
65	● 161.12.11E.0020	● 161.12.11H.0020	● 161.12.11S.0020	● 161.12.11V.0020
80	● 161.14.11E.0020	● 161.14.11H.0020	● 161.14.11S.0020	● 161.14.11V.0020
100	● 161.15.11E.0020	● 161.15.11H.0020	● 161.15.11S.0020	● 161.15.11V.0020
125	○ 161.16.11E.0020	○ 161.16.11H.0020	○ 161.16.11S.0020	○ 161.16.11V.0020
150	○ 161.17.11E.0020	○ 161.17.11H.0020	○ 161.17.11S.0020	○ 161.17.11V.0020

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, DIN 11851 male /liner, inside dia. acc. DIN 11850 (656)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
20	○ 161.07.12E.0020	○ 161.07.12H.0020	○ 161.07.12S.0020	○ 161.07.12V.0020
25	● 161.08.12E.0020	● 161.08.12H.0020	● 161.08.12S.0020	● 161.08.12V.0020
32	● 161.09.12E.0020	● 161.09.12H.0020	● 161.09.12S.0020	● 161.09.12V.0020
40	● 161.10.12E.0020	● 161.10.12H.0020	● 161.10.12S.0020	● 161.10.12V.0020
50	● 161.11.12E.0020	● 161.11.12H.0020	● 161.11.12S.0020	● 161.11.12V.0020
65	● 161.12.12E.0020	● 161.12.12H.0020	● 161.12.12S.0020	● 161.12.12V.0020
80	● 161.14.12E.0020	● 161.14.12H.0020	● 161.14.12S.0020	● 161.14.12V.0020
100	● 161.15.12E.0020	● 161.15.12H.0020	● 161.15.12S.0020	● 161.15.12V.0020
125	○ 161.16.12E.0020	○ 161.16.12H.0020	○ 161.16.12S.0020	○ 161.16.12V.0020
150	○ 161.17.12E.0020	○ 161.17.12H.0020	○ 161.17.12S.0020	○ 161.17.12V.0020

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, DIN 11851 male /liner, air/spr. (NC), inside dia. acc. DIN 11850 (656)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
20	○ 162.07.11E.0020	○ 162.07.11H.0020	○ 162.07.11S.0020	○ 162.07.11V.0020
25	● 162.08.11E.0020	● 162.08.11H.0020	● 162.08.11S.0020	● 162.08.11V.0020
32	● 162.09.11E.0020	● 162.09.11H.0020	● 162.09.11S.0020	● 162.09.11V.0020
40	● 162.10.11E.0020	● 162.10.11H.0020	● 162.10.11S.0020	● 162.10.11V.0020
50	● 162.11.11E.0020	● 162.11.11H.0020	● 162.11.11S.0020	● 162.11.11V.0020
65	● 162.12.11E.0020	● 162.12.11H.0020	● 162.12.11S.0020	● 162.12.11V.0020
80	● 162.14.11E.0020	● 162.14.11H.0020	● 162.14.11S.0020	● 162.14.11V.0020
100	● 162.15.11E.0020	● 162.15.11H.0020	● 162.15.11S.0020	● 162.15.11V.0020
125	○ 162.16.11E.0020	○ 162.16.11H.0020	○ 162.16.11S.0020	○ 162.16.11V.0020
150	○ 162.17.11E.0020	○ 162.17.11H.0020	○ 162.17.11S.0020	○ 162.17.11V.0020

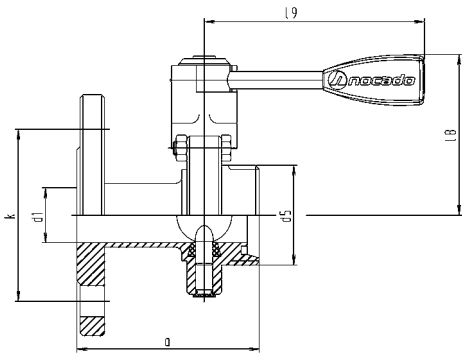
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11851 male /liner, air/spr. (NC), inside dia. acc. DIN 11850 (656)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
20	○ 162.07.12E.0020	○ 162.07.12H.0020	○ 162.07.12S.0020	○ 162.07.12V.0020
25	● 162.08.12E.0020	● 162.08.12H.0020	● 162.08.12S.0020	● 162.08.12V.0020
32	● 162.09.12E.0020	● 162.09.12H.0020	● 162.09.12S.0020	● 162.09.12V.0020
40	● 162.10.12E.0020	● 162.10.12H.0020	● 162.10.12S.0020	● 162.10.12V.0020
50	● 162.11.12E.0020	● 162.11.12H.0020	● 162.11.12S.0020	● 162.11.12V.0020
65	● 162.12.12E.0020	● 162.12.12H.0020	● 162.12.12S.0020	● 162.12.12V.0020
80	● 162.14.12E.0020	● 162.14.12H.0020	● 162.14.12S.0020	● 162.14.12V.0020
100	● 162.15.12E.0020	● 162.15.12H.0020	● 162.15.12S.0020	● 162.15.12V.0020
125	○ 162.16.12E.0020	○ 162.16.12H.0020	○ 162.16.12S.0020	○ 162.16.12V.0020
150	○ 162.17.12E.0020	○ 162.17.12H.0020	○ 162.17.12S.0020	○ 162.17.12V.0020

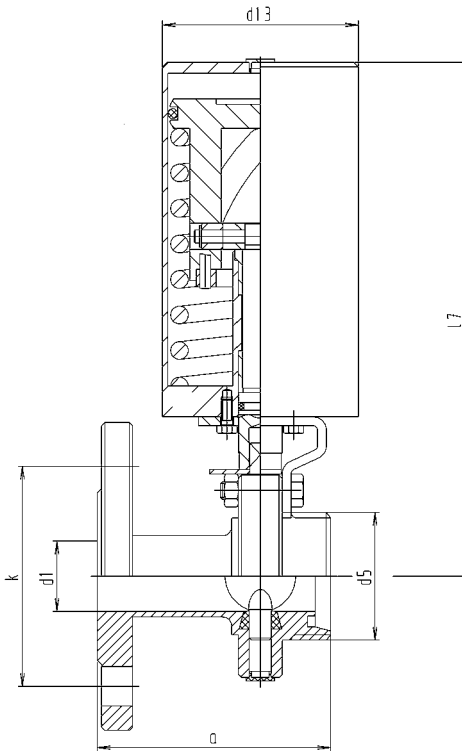
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11851 male /flange, inside dia. acc. DIN 11850 (657)



DN	a	d1	d5	k	l8	l9	weight (kg)
25	106	26	52x1/6"	85	89	132	2,630
32	106	32	58x1/6"	100	91	132	3,210
40	110	38	65x1/6"	110	94	132	3,590
50	112	50	78x1/6"	125	100	132	4,600
65	122	66	95x1/6"	145	109	132	5,620
80	135	81	110x1/4"	160	124	165	7,960
100	140	100	130x1/4"	180	135	165	9,580
125	167	125	160x1/4"	210	162	216	15,500
150	179	150	190x1/4"	240	177	216	19,950

butterfly valve, DIN 11851 male /flange, air/spr. (NC) inside dia. acc. DIN 11850 (657)



DN	a	d1	d5	k	d13	l7	weight (kg)
25	106	26	52x1/6"	85	89	231	5,580
32	106	32	58x1/6"	100	89	234	6,180
40	110	38	65x1/6"	110	89	236	6,550
50	112	50	78x1/6"	125	89	242	7,590
65	122	66	95x1/6"	145	89	251	8,650
80	135	81	110x1/4"	160	89	260	10,620
100	140	100	130x1/4"	180	89	270	12,270
125	167	125	160x1/4"	210	133	369	23,440
150	179	150	190x1/4"	240	133	384	27,950

butterfly valve, DIN 11851 male /flange, inside dia. acc. DIN 11850 (657)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	● 161.08.11E.0015	● 161.08.11H.0015	● 161.08.11S.0015	● 161.08.11V.0015
32	○ 161.09.11E.0015	○ 161.09.11H.0015	○ 161.09.11S.0015	○ 161.09.11V.0015
40	● 161.10.11E.0015	● 161.10.11H.0015	● 161.10.11S.0015	● 161.10.11V.0015
50	● 161.11.11E.0015	● 161.11.11H.0015	● 161.11.11S.0015	● 161.11.11V.0015
65	● 161.12.11E.0015	● 161.12.11H.0015	● 161.12.11S.0015	● 161.12.11V.0015
80	● 161.14.11E.0015	● 161.14.11H.0015	● 161.14.11S.0015	● 161.14.11V.0015
100	○ 161.15.11E.0015	○ 161.15.11H.0015	○ 161.15.11S.0015	○ 161.15.11V.0015
125	○ 161.16.11E.0015	○ 161.16.11H.0015	○ 161.16.11S.0015	○ 161.16.11V.0015
150	○ 161.17.11E.0015	○ 161.17.11H.0015	○ 161.17.11S.0015	○ 161.17.11V.0015

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, DIN 11851 male /flange, inside dia. acc. DIN 11850 (657)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0015	○ 161.08.12H.0015	○ 161.08.12S.0015	○ 161.08.12V.0015
32	○ 161.09.12E.0015	○ 161.09.12H.0015	○ 161.09.12S.0015	○ 161.09.12V.0015
40	○ 161.10.12E.0015	○ 161.10.12H.0015	○ 161.10.12S.0015	○ 161.10.12V.0015
50	○ 161.11.12E.0015	○ 161.11.12H.0015	○ 161.11.12S.0015	○ 161.11.12V.0015
65	○ 161.12.12E.0015	○ 161.12.12H.0015	○ 161.12.12S.0015	○ 161.12.12V.0015
80	○ 161.14.12E.0015	○ 161.14.12H.0015	○ 161.14.12S.0015	○ 161.14.12V.0015
100	○ 161.15.12E.0015	○ 161.15.12H.0015	○ 161.15.12S.0015	○ 161.15.12V.0015
125	○ 161.16.12E.0015	○ 161.16.12H.0015	○ 161.16.12S.0015	○ 161.16.12V.0015
150	○ 161.17.12E.0015	○ 161.17.12H.0015	○ 161.17.12S.0015	○ 161.17.12V.0015

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, DIN 11851 male /flange, air/spr. (NC) inside dia. acc. DIN 11850 (657)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	● 162.08.11E.0015	● 162.08.11H.0015	● 162.08.11S.0015	● 162.08.11V.0015
32	○ 162.09.11E.0015	○ 162.09.11H.0015	○ 162.09.11S.0015	○ 162.09.11V.0015
40	● 162.10.11E.0015	● 162.10.11H.0015	● 162.10.11S.0015	● 162.10.11V.0015
50	● 162.11.11E.0015	● 162.11.11H.0015	● 162.11.11S.0015	● 162.11.11V.0015
65	● 162.12.11E.0015	● 162.12.11H.0015	● 162.12.11S.0015	● 162.12.11V.0015
80	● 162.14.11E.0015	● 162.14.11H.0015	● 162.14.11S.0015	● 162.14.11V.0015
100	○ 162.15.11E.0015	○ 162.15.11H.0015	○ 162.15.11S.0015	○ 162.15.11V.0015
125	○ 162.16.11E.0015	○ 162.16.11H.0015	○ 162.16.11S.0015	○ 162.16.11V.0015
150	○ 162.17.11E.0015	○ 162.17.11H.0015	○ 162.17.11S.0015	○ 162.17.11V.0015

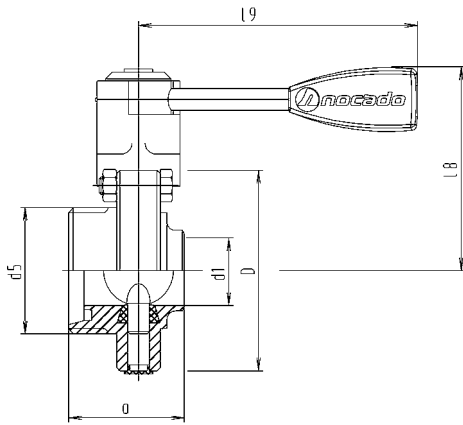
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, DIN 11851 male /flange, air/spr. (NC) inside dia. acc. DIN 11850 (657)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0015	○ 162.08.12H.0015	○ 162.08.12S.0015	○ 162.08.12V.0015
32	○ 162.09.12E.0015	○ 162.09.12H.0015	○ 162.09.12S.0015	○ 162.09.12V.0015
40	○ 162.10.12E.0015	○ 162.10.12H.0015	○ 162.10.12S.0015	○ 162.10.12V.0015
50	○ 162.11.12E.0015	○ 162.11.12H.0015	○ 162.11.12S.0015	○ 162.11.12V.0015
65	○ 162.12.12E.0015	○ 162.12.12H.0015	○ 162.12.12S.0015	○ 162.12.12V.0015
80	○ 162.14.12E.0015	○ 162.14.12H.0015	○ 162.14.12S.0015	○ 162.14.12V.0015
100	○ 162.15.12E.0015	○ 162.15.12H.0015	○ 162.15.12S.0015	○ 162.15.12V.0015
125	○ 162.16.12E.0015	○ 162.16.12H.0015	○ 162.16.12S.0015	○ 162.16.12V.0015
150	○ 162.17.12E.0015	○ 162.17.12H.0015	○ 162.17.12S.0015	○ 162.17.12V.0015

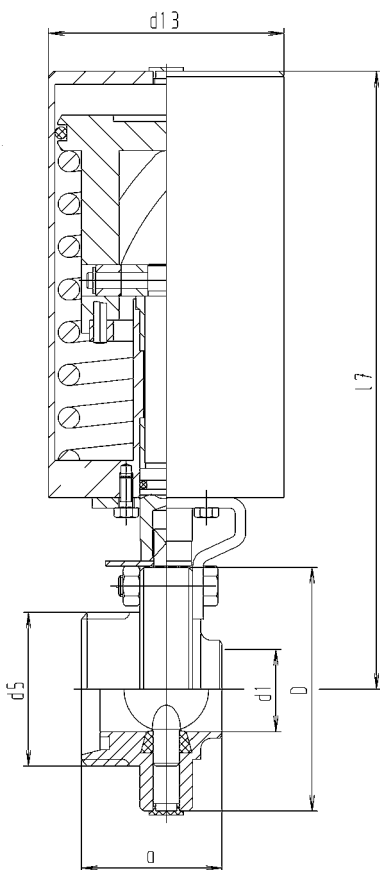
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/ weld end, inch OD (653)



DN	a	d1	d5	D	l8	l9	weight (kg)
1"	52	22.1	52x1/6"	87	89	132	1,490
1¼"	53	28.5	58x1/6"	92	91	132	1,580
1½"	61	34.8	65x1/6"	97	94	132	1,780
2"	61	47.5	78x1/6"	110	100	132	2,120
2½"	63	60.2	95x1/6"	127	109	132	2,560
3"	75	72.9	104x1/6"	142	124	165	4,510
4"	84	97.4	130x1/4"	162	135	165	5,600

butterfly valve, male/ weld end, air/spring (NC), inch OD



DN	a	d1	d5	D	d13	l7	weight (kg)
1"	52	22.1	52x1/6"	87	89	231	4,440
1¼"	53	28.5	58x1/6"	92	89	234	4,550
1½"	61	34.8	65x1/6"	97	89	236	4,740
2"	61	47.5	78x1/6"	110	89	242	5,110
2½"	63	60.2	95x1/6"	127	89	251	5,590
3"	75	72.9	104x1/6"	142	89	260	7,170
4"	84	97.4	130x1/4"	162	89	270	8,290

butterfly valve, male/ weld end, inch OD (653)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 161.08.11E.0005	● 161.08.11H.0005	● 161.08.11S.0005	● 161.08.11V.0005
1¼"	● 161.09.11E.0005	● 161.09.11H.0005	● 161.09.11S.0005	● 161.09.11V.0005
1½"	● 161.10.11E.0005	● 161.10.11H.0005	● 161.10.11S.0005	● 161.10.11V.0005
2"	● 161.11.11E.0005	● 161.11.11H.0005	● 161.11.11S.0005	● 161.11.11V.0005
2½"	● 161.12.11E.0005	● 161.12.11H.0005	● 161.12.11S.0005	● 161.12.11V.0005
3"	● 161.13.11E.0005	● 161.13.11H.0005	● 161.13.11S.0005	● 161.13.11V.0005
4"	● 161.15.11E.0005	● 161.15.11H.0005	● 161.15.11S.0005	● 161.15.11V.0005

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/ weld end, inch OD (653)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 161.08.12E.0005	● 161.08.12H.0005	● 161.08.12S.0005	● 161.08.12V.0005
1¼"	● 161.09.12E.0005	● 161.09.12H.0005	● 161.09.12S.0005	● 161.09.12V.0005
1½"	● 161.10.12E.0005	● 161.10.12H.0005	● 161.10.12S.0005	● 161.10.12V.0005
2"	● 161.11.12E.0005	● 161.11.12H.0005	● 161.11.12S.0005	● 161.11.12V.0005
2½"	● 161.12.12E.0005	● 161.12.12H.0005	● 161.12.12S.0005	● 161.12.12V.0005
3"	● 161.13.12E.0005	● 161.13.12H.0005	● 161.13.12S.0005	● 161.13.12V.0005
4"	● 161.15.12E.0005	● 161.15.12H.0005	● 161.15.12S.0005	● 161.15.12V.0005

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/ weld end, air/spring (NC), inch OD

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 162.08.11E.0005	● 162.08.11H.0005	● 162.08.11S.0005	● 162.08.11V.0005
1¼"	● 162.09.11E.0005	● 162.09.11H.0005	● 162.09.11S.0005	● 162.09.11V.0005
1½"	● 162.10.11E.0005	● 162.10.11H.0005	● 162.10.11S.0005	● 162.10.11V.0005
2"	● 162.11.11E.0005	● 162.11.11H.0005	● 162.11.11S.0005	● 162.11.11V.0005
2½"	● 162.12.11E.0005	● 162.12.11H.0005	● 162.12.11S.0005	● 162.12.11V.0005
3"	● 162.13.11E.0005	● 162.13.11H.0005	● 162.13.11S.0005	● 162.13.11V.0005
4"	● 162.15.11E.0005	● 162.15.11H.0005	● 162.15.11S.0005	● 162.15.11V.0005

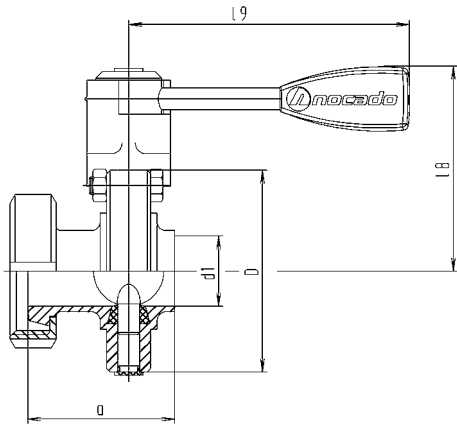
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/ weld end, air/spring (NC), inch OD

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 162.08.12E.0005	● 162.08.12H.0005	● 162.08.12S.0005	● 162.08.12V.0005
1¼"	● 162.09.12E.0005	● 162.09.12H.0005	● 162.09.12S.0005	● 162.09.12V.0005
1½"	● 162.10.12E.0005	● 162.10.12H.0005	● 162.10.12S.0005	● 162.10.12V.0005
2"	● 162.11.12E.0005	● 162.11.12H.0005	● 162.11.12S.0005	● 162.11.12V.0005
2½"	● 162.12.12E.0005	● 162.12.12H.0005	● 162.12.12S.0005	● 162.12.12V.0005
3"	● 162.13.12E.0005	● 162.13.12H.0005	● 162.13.12S.0005	● 162.13.12V.0005
4"	● 162.15.12E.0005	● 162.15.12H.0005	● 162.15.12S.0005	● 162.15.12V.0005

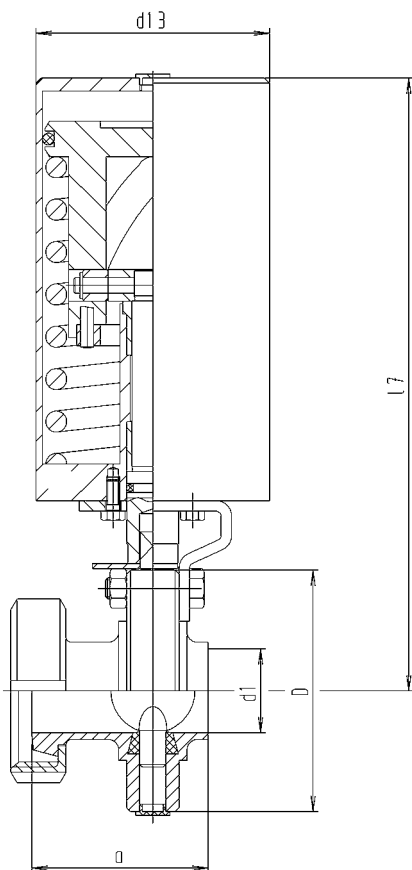
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, liner/ weld end, inch OD (662Z)



DN	a	d1	D	l8	l9	weight (kg)
1"	62	22.1	87	89	132	1,640
1¼"	67	28.5	92	91	132	1,810
1½"	76	34.8	97	94	132	2,070
2"	78	47.5	110	100	132	2,670
2½"	82	60.2	127	109	132	3,220
3"	92	72.9	142	124	165	5,620
4"	108	97.4	162	135	165	7,360

butterfly valve, liner/ weld end, air/spring (NC), inch OD (662Z)



DN	a	d1	D	d13	l7	weight (kg)
1"	62	22.1	87	89	231	4,585
1¼"	67	28.5	92	89	234	4,780
1½"	76	34.8	97	89	236	5,030
2"	78	47.5	110	89	242	5,660
2½"	82	60.2	127	89	251	6,250
3"	92	72.9	142	89	260	7,925
4"	108	97.4	162	89	270	10,050

butterfly valve, liner/ weld end, inch OD (66ZZ)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 161.08.11E.0075	○ 161.08.11H.0075	○ 161.08.11S.0075	○ 161.08.11V.0075
1¼"	○ 161.09.11E.0075	○ 161.09.11H.0075	○ 161.09.11S.0075	○ 161.09.11V.0075
1½"	○ 161.10.11E.0075	○ 161.10.11H.0075	○ 161.10.11S.0075	○ 161.10.11V.0075
2"	○ 161.11.11E.0075	○ 161.11.11H.0075	○ 161.11.11S.0075	○ 161.11.11V.0075
2½"	○ 161.12.11E.0075	○ 161.12.11H.0075	○ 161.12.11S.0075	○ 161.12.11V.0075
3"	○ 161.13.11E.0075	○ 161.13.11H.0075	○ 161.13.11S.0075	○ 161.13.11V.0075
4"	○ 161.15.11E.0075	○ 161.15.11H.0075	○ 161.15.11S.0075	○ 161.15.11V.0075

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, liner/ weld end, inch OD (66ZZ)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0075	○ 161.08.12H.0075	○ 161.08.12S.0075	○ 161.08.12V.0075
1¼"	○ 161.09.12E.0075	○ 161.09.12H.0075	○ 161.09.12S.0075	○ 161.09.12V.0075
1½"	○ 161.10.12E.0075	○ 161.10.12H.0075	○ 161.10.12S.0075	○ 161.10.12V.0075
2"	○ 161.11.12E.0075	○ 161.11.12H.0075	○ 161.11.12S.0075	○ 161.11.12V.0075
2½"	○ 161.12.12E.0075	○ 161.12.12H.0075	○ 161.12.12S.0075	○ 161.12.12V.0075
3"	○ 161.13.12E.0075	○ 161.13.12H.0075	○ 161.13.12S.0075	○ 161.13.12V.0075
4"	○ 161.15.12E.0075	○ 161.15.12H.0075	○ 161.15.12S.0075	○ 161.15.12V.0075

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, liner/ weld end, air/spring (NC), inch OD (66ZZ)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 162.08.11E.0075	○ 162.08.11H.0075	○ 162.08.11S.0075	○ 162.08.11V.0075
1¼"	○ 162.09.11E.0075	○ 162.09.11H.0075	○ 162.09.11S.0075	○ 162.09.11V.0075
1½"	○ 162.10.11E.0075	○ 162.10.11H.0075	○ 162.10.11S.0075	○ 162.10.11V.0075
2"	○ 162.11.11E.0075	○ 162.11.11H.0075	○ 162.11.11S.0075	○ 162.11.11V.0075
2½"	○ 162.12.11E.0075	○ 162.12.11H.0075	○ 162.12.11S.0075	○ 162.12.11V.0075
3"	○ 162.13.11E.0075	○ 162.13.11H.0075	○ 162.13.11S.0075	○ 162.13.11V.0075
4"	○ 162.15.11E.0075	○ 162.15.11H.0075	○ 162.15.11S.0075	○ 162.15.11V.0075

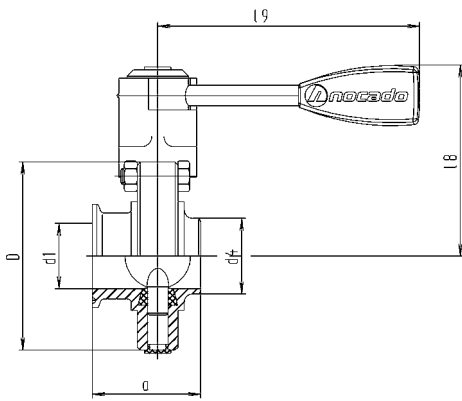
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, liner/ weld end, air/spring (NC), inch OD (66ZZ)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 162.08.12E.0075	○ 162.08.12H.0075	○ 162.08.12S.0075	○ 162.08.12V.0075
1¼"	○ 162.09.12E.0075	○ 162.09.12H.0075	○ 162.09.12S.0075	○ 162.09.12V.0075
1½"	○ 162.10.12E.0075	○ 162.10.12H.0075	○ 162.10.12S.0075	○ 162.10.12V.0075
2"	○ 162.11.12E.0075	○ 162.11.12H.0075	○ 162.11.12S.0075	○ 162.11.12V.0075
2½"	○ 162.12.12E.0075	○ 162.12.12H.0075	○ 162.12.12S.0075	○ 162.12.12V.0075
3"	○ 162.13.12E.0075	○ 162.13.12H.0075	○ 162.13.12S.0075	○ 162.13.12V.0075
4"	○ 162.15.12E.0075	○ 162.15.12H.0075	○ 162.15.12S.0075	○ 162.15.12V.0075

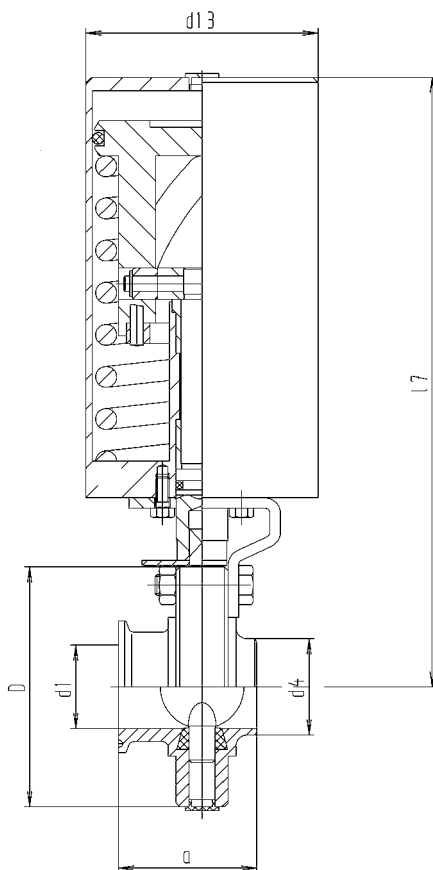
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, clamp/ weld end, inch OD (642Z)



DN	a	d1	d4	D	l8	l9	weight (kg)
1"	52	22.1	25.4	87	89	132	1,380
1½"	61	34.8	38.1	97	94	132	1,570
2"	61	47.5	50.8	110	100	132	1,870
2½"	63	60.2	63.5	127	109	132	2,280
3"	75	72.9	76.1	142	124	165	4,190
4"	84	97.4	101.6	162	135	165	5,020

butterfly valve, clamp/ weld end, air/spring (NC), inch OD (642Z)



DN	a	d1	d4	D	d13	l7	weight (kg)
1"	52	22.1	25.4	87	89	231	4,330
1½"	61	34.8	38.1	97	89	236	5,530
2"	61	47.5	50.8	110	89	242	4,860
2½"	63	60.2	63.5	127	89	251	5,310
3"	75	72.9	76.1	142	89	260	6,850
4"	84	97.4	101.6	162	89	270	7,710

butterfly valve, clamp/ weld end, inch OD (64ZZ)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	price €	304 FPM polished Ident number
1"	○ 161.08.11E.0076	○ 161.08.11H.0076	○ 161.08.11S.0076		○ 161.08.11V.0076
1½"	○ 161.10.11E.0076	○ 161.10.11H.0076	○ 161.10.11S.0076		○ 161.10.11V.0076
2"	○ 161.11.11E.0076	○ 161.11.11H.0076	○ 161.11.11S.0076		○ 161.11.11V.0076
2½"	○ 161.12.11E.0076	○ 161.12.11H.0076	○ 161.12.11S.0076		○ 161.12.11V.0076
3"	○ 161.13.11E.0076	○ 161.13.11H.0076	○ 161.13.11S.0076		○ 161.13.11V.0076
4"	○ 161.15.11E.0076	○ 161.15.11H.0076	○ 161.15.11S.0076		○ 161.15.11V.0076

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, clamp/ weld end, inch OD (64ZZ)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number		316 L FPM polished Ident number
1"	○ 161.08.12E.0076	○ 161.08.12H.0076	○ 161.08.12S.0076		○ 161.08.12V.0076
1½"	○ 161.09.12E.0076	○ 161.10.12H.0076	○ 161.10.12S.0076		○ 161.10.12V.0076
2"	○ 161.11.12E.0076	○ 161.11.12H.0076	○ 161.11.12S.0076		○ 161.11.12V.0076
2½"	○ 161.12.12E.0076	○ 161.12.12H.0076	○ 161.12.12S.0076		○ 161.12.12V.0076
3"	○ 161.13.12E.0076	○ 161.13.12H.0076	○ 161.13.12S.0076		○ 161.13.12V.0076
4"	○ 161.15.12E.0076	○ 161.15.12H.0076	○ 161.15.12S.0076		○ 161.15.12V.0076

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, clamp/ weld end, air/spring (NC), inch OD (64ZZ)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number		304 FPM polished Ident number
1"	○ 162.08.11E.0076	○ 162.08.11H.0076	○ 162.08.11S.0076		○ 162.08.11V.0076
1½"	○ 162.10.11E.0076	○ 162.10.11H.0076	○ 162.10.11S.0076		○ 162.10.11V.0076
2"	○ 162.11.11E.0076	○ 162.11.11H.0076	○ 162.11.11S.0076		○ 162.11.11V.0076
2½"	○ 162.12.11E.0076	○ 162.12.11H.0076	○ 162.12.11S.0076		○ 162.12.11V.0076
3"	○ 162.13.11E.0076	○ 162.13.11H.0076	○ 162.13.11S.0076		○ 162.13.11V.0076
4"	○ 162.15.11E.0076	○ 162.15.11H.0076	○ 162.15.11S.0076		○ 162.15.11V.0076

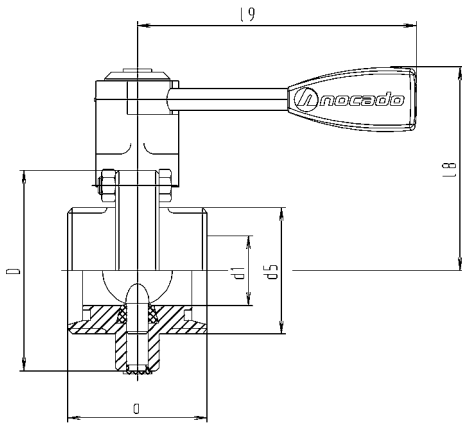
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, clamp/ weld end, air/spring (NC), inch OD (64ZZ)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number		316 L FPM polished Ident number
1"	○ 162.08.12E.0076	○ 162.08.12H.0076	○ 162.08.12S.0076		○ 162.08.12V.0076
1½"	○ 162.10.12E.0076	○ 162.10.12H.0076	○ 162.10.12S.0076		○ 162.10.12V.0076
2"	○ 162.11.12E.0076	○ 162.11.12H.0076	○ 162.11.12S.0076		○ 162.11.12V.0076
2½"	○ 162.12.12E.0076	○ 162.12.12H.0076	○ 162.12.12S.0076		○ 162.12.12V.0076
3"	○ 162.13.12E.0076	○ 162.13.12H.0076	○ 162.13.12S.0076		○ 162.13.12V.0076
4"	○ 162.15.12E.0076	○ 162.15.12H.0076	○ 162.15.12S.0076		○ 162.15.12V.0076

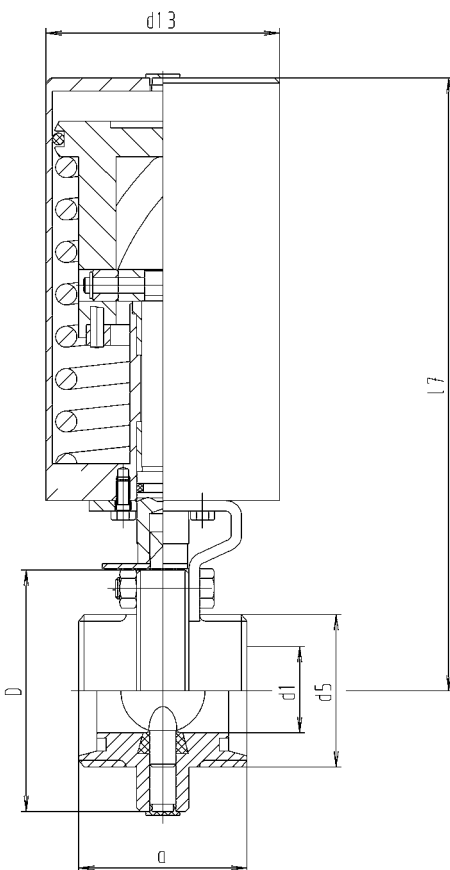
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/male, inch OD (655Z)



DN	a	d1	d5	D	l8	l9	weight (kg)
1"	64	22.1	52x1/6"	87	89	132	1,700
1¼"	64	28.5	58x1/6"	92	91	132	1,850
1½"	72	34.8	65x1/6"	97	94	132	2,000
2"	72	47.5	78x1/6"	110	100	132	2,400
2½"	76	60.2	95x1/6"	127	109	132	3,200
3"	90	72.9	104x1/6"	142	124	165	4,400
4"	104	97.4	130x1/4"	162	135	165	6,700

butterfly valve, male/male, air/spring (NC), inch OD (655Z)



DN	a	d1	d5	D	d13	l7	weight (kg)
1"	64	22.1	52x1/6"	87	89	231	4,650
1¼"	64	28.5	58x1/6"	92	89	234	4,820
1½"	72	34.8	65x1/6"	97	89	236	4,960
2"	72	47.5	78x1/6"	110	89	242	5,390
2½"	76	60.2	95x1/6"	127	89	251	6,230
3"	90	72.9	104x1/6"	142	89	260	7,060
4"	104	97.4	130x1/4"	162	89	270	9,390

butterfly valve, male/male, inch OD (655Z)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 161.08.11E.0122	● 161.08.11H.0122	● 161.08.11S.0122	● 161.08.11V.0122
1¼"	● 161.09.11E.0122	● 161.09.11H.0122	● 161.09.11S.0122	● 161.09.11V.0122
1½"	● 161.10.11E.0122	● 161.10.11H.0122	● 161.10.11S.0122	● 161.10.11V.0122
2"	● 161.11.11E.0122	● 161.11.11H.0122	● 161.11.11S.0122	● 161.11.11V.0122
2½"	● 161.12.11E.0122	● 161.12.11H.0122	● 161.12.11S.0122	● 161.12.11V.0122
3"	● 161.13.11E.0122	● 161.13.11H.0122	● 161.13.11S.0122	● 161.13.11V.0122
4"	● 161.15.11E.0122	● 161.15.11H.0122	● 161.15.11S.0122	● 161.15.11V.0122

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/male, inch OD (655Z)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 161.08.12E.0122	● 161.08.12H.0122	● 161.08.12S.0122	● 161.08.12V.0122
1¼"	● 161.09.12E.0122	● 161.09.12H.0122	● 161.09.12S.0122	● 161.09.12V.0122
1½"	● 161.10.12E.0122	● 161.10.12H.0122	● 161.10.12S.0122	● 161.10.12V.0122
2"	● 161.11.12E.0122	● 161.11.12H.0122	● 161.11.12S.0122	● 161.11.12V.0122
2½"	● 161.12.12E.0122	● 161.12.12H.0122	● 161.12.12S.0122	● 161.12.12V.0122
3"	● 161.13.12E.0122	● 161.13.12H.0122	● 161.13.12S.0122	● 161.13.12V.0122
4"	● 161.15.12E.0122	● 161.15.12H.0122	● 161.15.12S.0122	● 161.15.12V.0122

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/male, air/spring (NC), inch OD (655Z)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 162.08.11E.0122	● 162.08.11H.0122	● 162.08.11S.0122	● 162.08.11V.0122
1¼"	● 162.09.11E.0122	● 162.09.11H.0122	● 162.09.11S.0122	● 162.09.11V.0122
1½"	● 162.10.11E.0122	● 162.10.11H.0122	● 162.10.11S.0122	● 162.10.11V.0122
2"	● 162.11.11E.0122	● 162.11.11H.0122	● 162.11.11S.0122	● 162.11.11V.0122
2½"	● 162.12.11E.0122	● 162.12.11H.0122	● 162.12.11S.0122	● 162.12.11V.0122
3"	● 162.13.11E.0122	● 162.13.11H.0122	● 162.13.11S.0122	● 162.13.11V.0122
4"	● 162.15.11E.0122	● 162.15.11H.0122	● 162.15.11S.0122	● 162.15.11V.0122

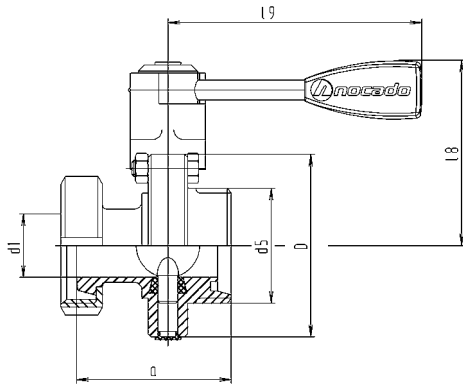
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/male, air/spring (NC), inch OD (655Z)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 162.08.12E.0122	● 162.08.12H.0122	● 162.08.12S.0122	● 162.08.12V.0122
1¼"	● 162.09.12E.0122	● 162.09.12H.0122	● 162.09.12S.0122	● 162.09.12V.0122
1½"	● 162.10.12E.0122	● 162.10.12H.0122	● 162.10.12S.0122	● 162.10.12V.0122
2"	● 162.11.12E.0122	● 162.11.12H.0122	● 162.11.12S.0122	● 162.11.12V.0122
2½"	● 162.12.12E.0122	● 162.12.12H.0122	● 162.12.12S.0122	● 162.12.12V.0122
3"	● 162.13.12E.0122	● 162.13.12H.0122	● 162.13.12S.0122	● 162.13.12V.0122
4"	● 162.15.12E.0122	● 162.15.12H.0122	● 162.15.12S.0122	● 162.15.12V.0122

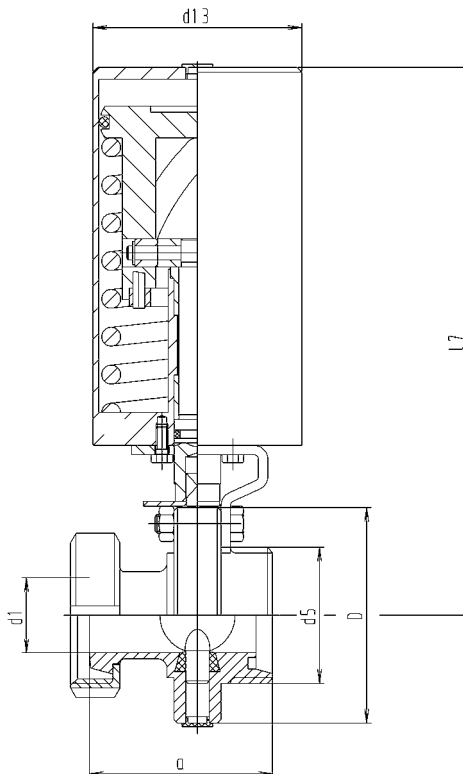
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/liner, inch OD (656Z)



DN	a	d1	d5	D	l8	l9	weight (kg)
1"	74	22.1	52x1/6"	87	89	132	1,760
1¼"	78	28.5	58x1/6"	92	91	132	1,900
1½"	87	34.8	65x1/6"	97	94	132	2,180
2"	89	47.5	78x1/6"	110	100	132	2,650
2½"	95	60.2	95x1/6"	127	109	132	3,410
3"	107	72.9	104x1/6"	142	124	165	5,620
4"	128	97.4	130x1/4"	162	135	165	7,100

butterfly valve, male/liner, air/spring (NC), inch OD (656Z)



DN	a	d1	d5	D	d13	l7	weight (kg)
1"	74	22.1	52x1/6"	87	89	231	4,710
1¼"	78	28.5	58x1/6"	92	89	234	4,870
1½"	87	34.8	65x1/6"	97	89	236	5,140
2"	89	47.5	78x1/6"	110	89	242	5,640
2½"	95	60.2	95x1/6"	127	89	251	6,440
3"	107	72.9	104x1/6"	142	89	260	8,280
4"	128	97.4	130x1/4"	162	89	270	9,790

butterfly valve, male/liner, inch OD (656Z)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 161.08.11E.0021	● 161.08.11H.0021	● 161.08.11S.0021	● 161.08.11V.0021
1¼"	○ 161.09.11E.0021	○ 161.09.11H.0021	○ 161.09.11S.0021	○ 161.09.11V.0021
1½"	○ 161.10.11E.0021	○ 161.10.11H.0021	○ 161.10.11S.0021	○ 161.10.11V.0021
2"	● 161.11.11E.0021	● 161.11.11H.0021	● 161.11.11S.0021	● 161.11.11V.0021
2½"	○ 161.12.11E.0021	○ 161.12.11H.0021	○ 161.12.11S.0021	○ 161.12.11V.0021
3"	○ 161.13.11E.0021	○ 161.13.11H.0021	○ 161.13.11S.0021	○ 161.13.11V.0021
4"	● 161.15.11E.0021	● 161.15.11H.0021	● 161.15.11S.0021	● 161.15.11V.0021

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/liner, inch OD (656Z)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0021	○ 161.08.12H.0021	○ 161.08.12S.0021	○ 161.08.12V.0021
1¼"	○ 161.09.12E.0021	○ 161.09.12H.0021	○ 161.09.12S.0021	○ 161.09.12V.0021
1½"	○ 161.10.12E.0021	○ 161.10.12H.0021	○ 161.10.12S.0021	○ 161.10.12V.0021
2"	○ 161.11.12E.0021	○ 161.11.12H.0021	○ 161.11.12S.0021	○ 161.11.12V.0021
2½"	○ 161.12.12E.0021	○ 161.12.12H.0021	○ 161.12.12S.0021	○ 161.12.12V.0021
3"	○ 161.13.12E.0021	○ 161.13.12H.0021	○ 161.13.12S.0021	○ 161.13.12V.0021
4"	○ 161.15.12E.0021	○ 161.15.12H.0021	○ 161.15.12S.0021	○ 161.15.12V.0021

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/liner, air/spring (NC), inch OD (656Z)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 162.08.11E.0021	○ 162.08.11H.0021	○ 162.08.11S.0021	○ 162.08.11V.0021
1¼"	○ 162.09.11E.0021	○ 162.09.11H.0021	○ 162.09.11S.0021	○ 162.09.11V.0021
1½"	○ 162.10.11E.0021	○ 162.10.11H.0021	○ 162.10.11S.0021	○ 162.10.11V.0021
2"	○ 162.11.11E.0021	○ 162.11.11H.0021	○ 162.11.11S.0021	○ 162.11.11V.0021
2½"	○ 162.12.11E.0021	○ 162.12.11H.0021	○ 162.12.11S.0021	○ 162.12.11V.0021
3"	○ 162.13.11E.0021	○ 162.13.11H.0021	○ 162.13.11S.0021	○ 162.13.11V.0021
4"	○ 162.15.11E.0021	○ 162.15.11H.0021	○ 162.15.11S.0021	○ 162.15.11V.0021

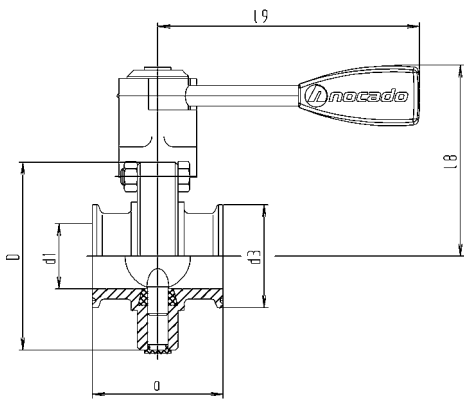
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/liner, air/spring (NC), inch OD (656Z)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 162.08.12E.0021	○ 162.08.12H.0021	○ 162.08.12S.0021	○ 162.08.12V.0021
1¼"	○ 162.09.12E.0021	○ 162.09.12H.0021	○ 162.09.12S.0021	○ 162.09.12V.0021
1½"	○ 162.10.12E.0021	○ 162.10.12H.0021	○ 162.10.12S.0021	○ 162.10.12V.0021
2"	○ 162.11.12E.0021	○ 162.11.12H.0021	○ 162.11.12S.0021	○ 162.11.12V.0021
2½"	○ 162.12.12E.0021	○ 162.12.12H.0021	○ 162.12.12S.0021	○ 162.12.12V.0021
3"	○ 162.13.12E.0021	○ 162.13.12H.0021	○ 162.13.12S.0021	○ 162.13.12V.0021
4"	○ 162.15.12E.0021	○ 162.15.12H.0021	○ 162.15.12S.0021	○ 162.15.12V.0021

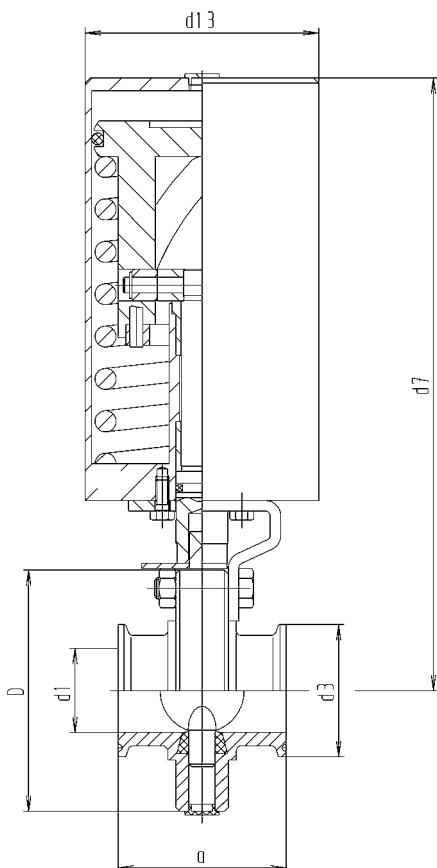
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, clamp/clamp, inch OD (644Z)



DN	a	d1	d3	D	l8	l9	weight (kg)
1"	64	22.1	50.5	87	89	132	1,450
1½"	72	34.8	50.5	97	94	132	1,620
2"	72	47.5	64	110	100	132	1,940
2½"	76	60.2	77.5	127	109	132	2,380
3"	90	72.9	91	142	124	165	4,230
4"	104	97.4	119	162	135	165	5,240

butterfly valve, clamp/clamp, air/spring (NC), inch OD (644Z)



DN	a	d1	d3	D	d13	l7	weight (kg)
1"	64	22.1	50.5	87	89	231	4,400
1½"	72	34.8	50.5	97	89	236	4,580
2"	72	47.5	64	110	89	242	4,930
2½"	76	60.2	77.5	127	89	251	5,410
3"	90	72.9	91	142	89	260	6,890
4"	104	97.4	119	162	89	270	7,930

butterfly valve, clamp/clamp, inch OD (644Z)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 161.08.11E.0026	● 161.08.11H.0026	● 161.08.11S.0026	● 161.08.11V.0026
1½"	● 161.10.11E.0026	● 161.10.11H.0026	● 161.10.11S.0026	● 161.10.11V.0026
2"	● 161.11.11E.0026	● 161.11.11H.0026	● 161.11.11S.0026	● 161.11.11V.0026
2½"	● 161.12.11E.0026	● 161.12.11H.0026	● 161.12.11S.0026	● 161.12.11V.0026
3"	● 161.13.11E.0026	● 161.13.11H.0026	● 161.13.11S.0026	● 161.13.11V.0026
4"	● 161.15.11E.0026	● 161.15.11H.0026	● 161.15.11S.0026	● 161.15.11V.0026

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, clamp/clamp, inch OD (644Z)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 161.08.12E.0026	● 161.08.12H.0026	● 161.08.12S.0026	● 161.08.12V.0026
1½"	● 161.10.12E.0026	● 161.10.12H.0026	● 161.10.12S.0026	● 161.10.12V.0026
2"	● 161.11.12E.0026	● 161.11.12H.0026	● 161.11.12S.0026	● 161.11.12V.0026
2½"	● 161.12.12E.0026	● 161.12.12H.0026	● 161.12.12S.0026	● 161.12.12V.0026
3"	● 161.13.12E.0026	● 161.13.12H.0026	● 161.13.12S.0026	● 161.13.12V.0026
4"	● 161.15.12E.0026	● 161.15.12H.0026	● 161.15.12S.0026	● 161.15.12V.0026

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, clamp/clamp, air/spring (NC), inch OD (644Z)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 162.08.11E.0026	● 162.08.11H.0026	● 162.08.11S.0026	● 162.08.11V.0026
1½"	● 162.10.11E.0026	● 162.10.11H.0026	● 162.10.11S.0026	● 162.10.11V.0026
2"	● 162.11.11E.0026	● 162.11.11H.0026	● 162.11.11S.0026	● 162.11.11V.0026
2½"	● 162.12.11E.0026	● 162.12.11H.0026	● 162.12.11S.0026	● 162.12.11V.0026
3"	● 162.13.11E.0026	● 162.13.11H.0026	● 162.13.11S.0026	● 162.13.11V.0026
4"	● 162.15.11E.0026	● 162.15.11H.0026	● 162.15.11S.0026	● 162.15.11V.0026

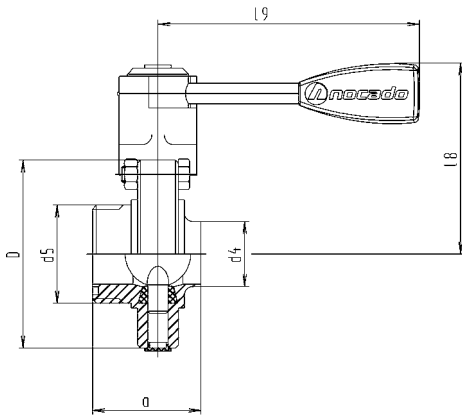
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, clamp/clamp, air/spring (NC), inch OD (644Z)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 162.08.12E.0026	● 162.08.12H.0026	● 162.08.12S.0026	● 162.08.12V.0026
1½"	● 162.10.12E.0026	● 162.10.12H.0026	● 162.10.12S.0026	● 162.10.12V.0026
2"	● 162.11.12E.0026	● 162.11.12H.0026	● 162.11.12S.0026	● 162.11.12V.0026
2½"	● 162.12.12E.0026	● 162.12.12H.0026	● 162.12.12S.0026	● 162.12.12V.0026
3"	● 162.13.12E.0026	● 162.13.12H.0026	● 162.13.12S.0026	● 162.13.12V.0026
4"	● 162.15.12E.0026	● 162.15.12H.0026	● 162.15.12S.0026	● 162.15.12V.0026

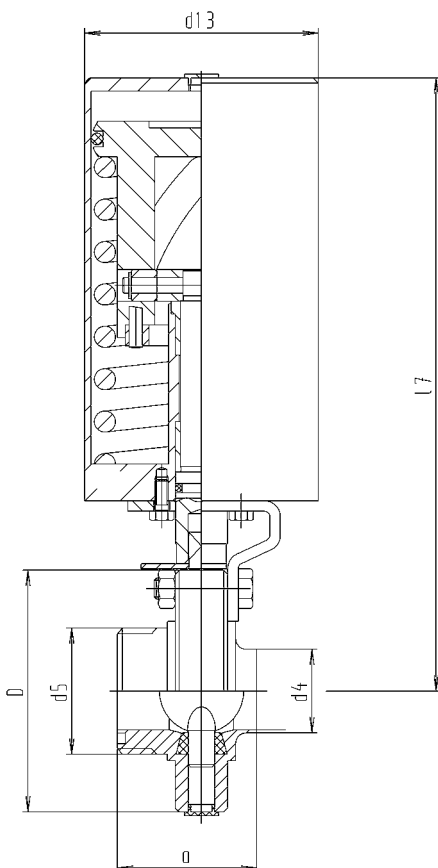
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/ weld end, SMS (652S)



DN	a	d4	d5	D	l8	l9	weight (kg)
25	52	25.4	40x1/6"	87	89	132	1,410
32	53	31.8	48x1/6"	92	91	132	1,570
38	61	38.1	60x1/6"	97	94	132	1,760
51	61	50.8	70x1/6"	110	100	132	2,030
63,5	63	63.5	85x1/6"	127	109	132	2,570
76	75	76.1	98x1/6"	142	124	165	4,575
101,6	84	101.6	132x1/6"	162	135	165	6,050

butterfly valve, SMS male/ weld end, air/spring (NC) (652S)



DN	a	d4	d5	D	d13	l7	weight (kg)
25	52	25.4	40x1/6"	87	89	231	4,360
32	53	31.8	48x1/6"	92	89	234	4,540
38	61	38.1	60x1/6"	97	89	236	4,720
51	61	50.8	70x1/6"	110	89	242	5,020
63,5	63	63.5	85x1/6"	127	89	251	5,600
76	75	76.1	98x1/6"	142	89	260	7,235
101,6	84	101.6	132x1/6"	162	89	270	8,740

butterfly valve, male/ weld end, SMS (652S)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 161.08.11E.0081	○ 161.08.11H.0081	○ 161.08.11S.0081	○ 161.08.11V.0081
32	○ 161.09.11E.0081	○ 161.09.11H.0081	○ 161.09.11S.0081	○ 161.09.11V.0081
38	○ 161.10.11E.0081	○ 161.10.11H.0081	○ 161.10.11S.0081	○ 161.10.11V.0081
51	○ 161.11.11E.0081	○ 161.11.11H.0081	○ 161.11.11S.0081	○ 161.11.11V.0081
63,5	○ 161.12.11E.0081	○ 161.12.11H.0081	○ 161.12.11S.0081	○ 161.12.11V.0081
76	○ 161.13.11E.0081	○ 161.13.11H.0081	○ 161.13.11S.0081	○ 161.13.11V.0081
101,6	○ 161.15.11E.0081	○ 161.15.11H.0081	○ 161.15.11S.0081	○ 161.15.11V.0081

mat finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/ weld end, SMS (652S)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0081	○ 161.08.12H.0081	○ 161.08.12S.0081	○ 161.08.12V.0081
32	○ 161.09.12E.0081	○ 161.09.12H.0081	○ 161.09.12S.0081	○ 161.09.12V.0081
38	○ 161.10.12E.0081	○ 161.10.12H.0081	○ 161.10.12S.0081	○ 161.10.12V.0081
51	○ 161.11.12E.0081	○ 161.11.12H.0081	○ 161.11.12S.0081	○ 161.11.12V.0081
63,5	○ 161.12.12E.0081	○ 161.12.12H.0081	○ 161.12.12S.0081	○ 161.12.12V.0081
76	○ 161.13.12E.0081	○ 161.13.12H.0081	○ 161.13.12S.0081	○ 161.13.12V.0081
101,6	○ 161.15.12E.0081	○ 161.15.12H.0081	○ 161.15.12S.0081	○ 161.15.12V.0081

mat finish: at 6th position use a digit 2 in the ident number

butterfly valve, SMS male/ weld end, air/spring (NC) (652S)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 162.08.11E.0081	○ 162.08.11H.0081	○ 162.08.11S.0081	○ 162.08.11V.0081
32	○ 162.09.11E.0081	○ 162.09.11H.0081	○ 162.09.11S.0081	○ 162.09.11V.0081
38	○ 162.10.11E.0081	○ 162.10.11H.0081	○ 162.10.11S.0081	○ 162.10.11V.0081
51	○ 162.11.11E.0081	○ 162.11.11H.0081	○ 162.11.11S.0081	○ 162.11.11V.0081
63,5	○ 162.12.11E.0081	○ 162.12.11H.0081	○ 162.12.11S.0081	○ 162.12.11V.0081
76	○ 162.13.11E.0081	○ 162.13.11H.0081	○ 162.13.11S.0081	○ 162.13.11V.0081
101,6	○ 162.15.11E.0081	○ 162.15.11H.0081	○ 162.15.11S.0081	○ 162.15.11V.0081

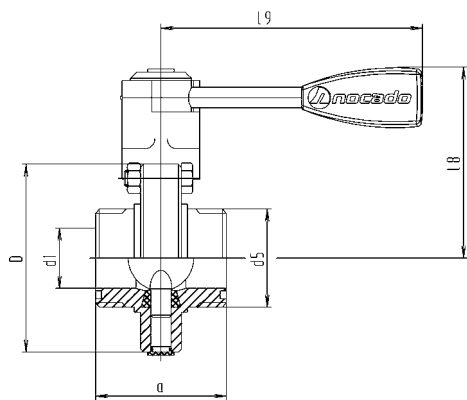
mat finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, SMS male/ weld end, air/spring (NC) (652S)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0081	○ 162.08.12H.0081	○ 162.08.12S.0081	○ 162.08.12V.0081
32	○ 162.09.12E.0081	○ 162.09.12H.0081	○ 162.09.12S.0081	○ 162.09.12V.0081
38	○ 162.10.12E.0081	○ 162.10.12H.0081	○ 162.10.12S.0081	○ 162.10.12V.0081
51	○ 162.11.12E.0081	○ 162.11.12H.0081	○ 162.11.12S.0081	○ 162.11.12V.0081
63,5	○ 162.12.12E.0081	○ 162.12.12H.0081	○ 162.12.12S.0081	○ 162.12.12V.0081
76	○ 162.13.12E.0081	○ 162.13.12H.0081	○ 162.13.12S.0081	○ 162.13.12V.0081
101,6	○ 162.15.12E.0081	○ 162.15.12H.0081	○ 162.15.12S.0081	○ 162.15.12V.0081

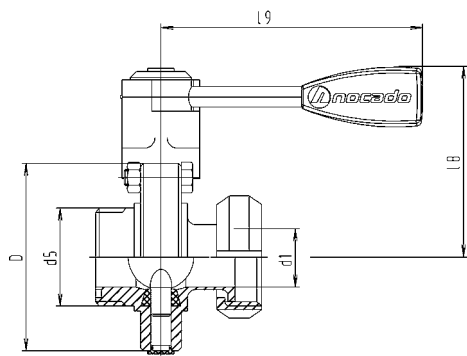
mat finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/male, SMS (655S)



DN	a	d1	d5	D	l8	l9	weight (kg)
25	64	22.9	40x1/6"	87	89	132	1,510
32	64	29.3	48x1/6"	92	91	132	1,720
38	72	35.1	60x1/6"	97	94	132	2,000
51	72	47.8	70x1/6"	110	100	132	2,260
63,5	76	60.5	85x1/6"	127	109	132	2,960
76	90	72.1	98x1/6"	142	124	165	5,000
101,6	104	97.6	132x1/6"	162	135	165	7,300

butterfly valve, male/liner, SMS (656S)



DN	d1	d5	D	l8	l9	weight (kg)
25	22	40 x 1/6"	87	89	132	1,5
32	29	48 x 1/6"	92	91	132	1,69
38	35	60 x 1/6"	97	94	132	1,8
51	47	70 x 1/6"	110	100	132	2,1
63,5	60	85 x 1/6"	127	109	132	2,7
76	72	98 x 1/6"	142	124	165	4,8
101,6	97	132 x 1/6"	162	135	165	7,1

butterfly valve, male/male, SMS (655S)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	● 161.08.11E.0014	● 161.08.11H.0014	● 161.08.11S.0014	● 161.08.11V.0014
32	○ 161.09.11E.0014	○ 161.09.11H.0014	○ 161.09.11S.0014	○ 161.09.11V.0014
38	● 161.10.11E.0014	● 161.10.11H.0014	● 161.10.11S.0014	● 161.10.11V.0014
51	● 161.11.11E.0014	● 161.11.11H.0014	● 161.11.11S.0014	● 161.11.11V.0014
63,5	● 161.12.11E.0014	● 161.12.11H.0014	● 161.12.11S.0014	● 161.12.11V.0014
76	● 161.13.11E.0014	● 161.13.11H.0014	● 161.13.11S.0014	● 161.13.11V.0014
101,6	● 161.15.11E.0014	● 161.15.11H.0014	● 161.15.11S.0014	● 161.15.11V.0014

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/male, SMS (655S)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	● 161.08.12E.0014	● 161.08.12H.0014	● 161.08.12S.0014	● 161.08.12V.0014
32	○ 161.09.12E.0014	○ 161.09.12H.0014	○ 161.09.12S.0014	○ 161.09.12V.0014
38	● 161.10.12E.0014	● 161.10.12H.0014	● 161.10.12S.0014	● 161.10.12V.0014
51	● 161.11.12E.0014	● 161.11.12H.0014	● 161.11.12S.0014	● 161.11.12V.0014
63,5	● 161.12.12E.0014	● 161.12.12H.0014	● 161.12.12S.0014	● 161.12.12V.0014
76	● 161.13.12E.0014	● 161.13.12H.0014	● 161.13.12S.0014	● 161.13.12V.0014
101,6	○ 161.15.12E.0014	○ 161.15.12H.0014	○ 161.15.12S.0014	○ 161.15.12V.0014

matt finish: at 6th position use a digit 2 in the ident number

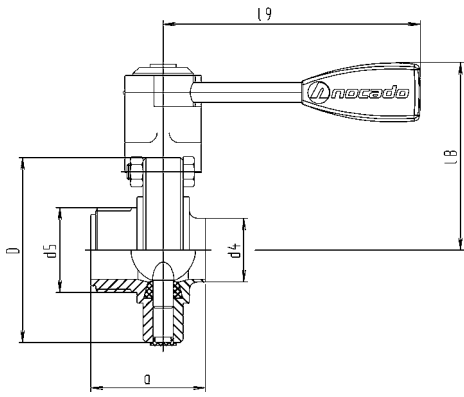
butterfly valve, male/liner, SMS (656S)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 161.08.11E.0111	○ 161.08.11H.0111	○ 161.08.11S.0111	○ 161.08.11V.0111
32	○ 161.09.11E.0111	○ 161.09.11H.0111	○ 161.09.11S.0111	○ 161.09.11V.0111
38	○ 161.10.11E.0111	○ 161.10.11H.0111	○ 161.10.11S.0111	○ 161.10.11V.0111
51	○ 161.11.11E.0111	○ 161.11.11H.0111	○ 161.11.11S.0111	○ 161.11.11V.0111
63,5	○ 161.12.11E.0111	○ 161.12.11H.0111	○ 161.12.11S.0111	○ 161.12.11V.0111
76	○ 161.13.11E.0111	○ 161.13.11H.0111	○ 161.13.11S.0111	○ 161.13.11V.0111
101,6	○ 161.15.11E.0111	○ 161.15.11H.0111	○ 161.15.11S.0111	○ 161.15.11V.0111

butterfly valve, male/liner, SMS (656S)

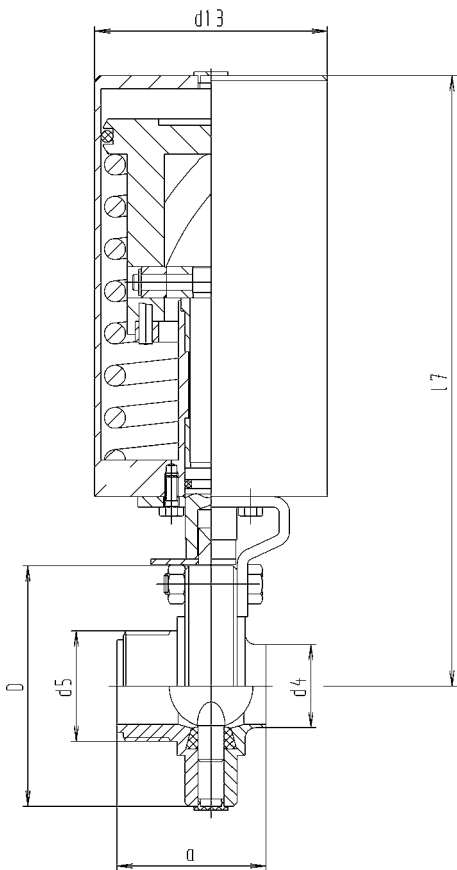
DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0111	○ 161.08.12H.0111	○ 161.08.12S.0111	○ 161.08.12V.0111
32	○ 161.09.12E.0111	○ 161.09.12H.0111	○ 161.09.12S.0111	○ 161.09.12V.0111
38	○ 161.10.12E.0111	○ 161.10.12H.0111	○ 161.10.12S.0111	○ 161.10.12V.0111
51	○ 161.11.12E.0111	○ 161.11.12H.0111	○ 161.11.12S.0111	○ 161.11.12V.0111
63,5	○ 161.12.12E.0111	○ 161.12.12H.0111	○ 161.12.12S.0111	○ 161.12.12V.0111
76	○ 161.13.12E.0111	○ 161.13.12H.0111	○ 161.13.12S.0111	○ 161.13.12V.0111
101,6	○ 161.15.12E.0111	○ 161.15.12H.0111	○ 161.15.12S.0111	○ 161.15.12V.0111

butterfly valve, IDF male/ weld end (652I)



DN	a	d4	d5 - ACME	D	l8	l9	weight (kg)
1"	56	25.4	1"	87	89	132	1,405
1½"	61	38.1	1 1/2"	97	94	132	1,660
2"	61	50.8	2"	110	100	132	1,950
2½"	63	63.5	2 1/2"	127	109	132	2,440
3"	75	76.1	3"	142	124	165	4,475

butterfly valve, IDF male/ weld end, air/spring (NC) (652I)



DN	a	d4	d5 - ACME	D	d13	l7	weight (kg)
1"	56	25.4	1"	87	89	231	4,355
1½"	61	38.1	1 1/2"	97	89	236	4,620
2"	61	50.8	2"	110	89	242	4,940
2½"	63	63.5	2 1/2"	127	89	251	5,470
3"	75	76.1	3"	142	89	260	7,135

butterfly valve, IDF male/ weld end (6521)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 161.08.11E.0077	○ 161.08.11H.0077	○ 161.08.11S.0077	○ 161.08.11V.0077
1½"	○ 161.10.11E.0077	○ 161.10.11H.0077	○ 161.10.11S.0077	○ 161.10.11V.0077
2"	○ 161.11.11E.0077	○ 161.11.11H.0077	○ 161.11.11S.0077	○ 161.11.11V.0077
2½"	○ 161.12.11E.0077	○ 161.12.11H.0077	○ 161.12.11S.0077	○ 161.12.11V.0077
3"	○ 161.13.11E.0077	○ 161.13.11H.0077	○ 161.13.11S.0077	○ 161.13.11V.0077

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, IDF male/ weld end (6521)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0077	○ 161.08.12H.0077	○ 161.08.12S.0077	○ 161.08.12V.0077
1½"	○ 161.10.12E.0077	○ 161.10.12H.0077	○ 161.10.12S.0077	○ 161.10.12V.0077
2"	○ 161.11.12E.0077	○ 161.11.12H.0077	○ 161.11.12S.0077	○ 161.11.12V.0077
2½"	○ 161.12.12E.0077	○ 161.12.12H.0077	○ 161.12.12S.0077	○ 161.12.12V.0077
3"	○ 161.13.12E.0077	○ 161.13.12H.0077	○ 161.13.12S.0077	○ 161.13.12V.0077

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, IDF male/ weld end, air/spring (NC)
(6521)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 162.08.11E.0077	○ 162.08.11H.0077	○ 162.08.11S.0077	○ 162.08.11V.0077
1½"	○ 162.10.11E.0077	○ 162.10.11H.0077	○ 162.10.11S.0077	○ 162.10.11V.0077
2"	○ 162.11.11E.0077	○ 162.11.11H.0077	○ 162.11.11S.0077	○ 162.11.11V.0077
2½"	○ 162.12.11E.0077	○ 162.12.11H.0077	○ 162.12.11S.0077	○ 162.12.11V.0077
3"	○ 162.13.11E.0077	○ 162.13.11H.0077	○ 162.13.11S.0077	○ 162.13.11V.0077

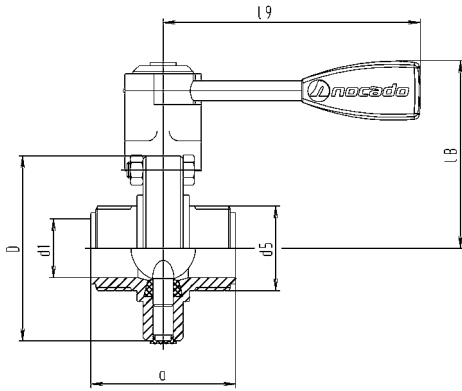
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, IDF male/ weld end, air/spring (NC)
(6521)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 162.08.12E.0077	○ 162.08.12H.0077	○ 162.08.12S.0077	○ 162.08.12V.0077
1½"	○ 162.10.12E.0077	○ 162.10.12H.0077	○ 162.10.12S.0077	○ 162.10.12V.0077
2"	○ 162.11.12E.0077	○ 162.11.12H.0077	○ 162.11.12S.0077	○ 162.11.12V.0077
2½"	○ 162.12.12E.0077	○ 162.12.12H.0077	○ 162.12.12S.0077	○ 162.12.12V.0077
3"	○ 162.13.12E.0077	○ 162.13.12H.0077	○ 162.13.12S.0077	○ 162.13.12V.0077

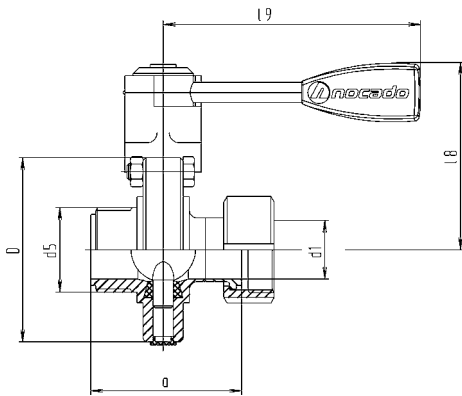
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/male, IDF (655I)



DN	a	d1	d5 - ACME	D	l8	l9	weight (kg)
1"	72	22.1	1"	87	89	132	1,500
1½"	72	34.8	1 1/2"	97	94	132	1,800
2"	72	47.5	2"	110	100	132	2,100
2½"	76	60.2	2 1/2"	127	109	132	2,700
3"	90	72.9	3"	142	124	165	4,800

butterfly valve, male/liner, IDF (656I)



DN	a	d1	d5 - ACME	D	l8	l9	weight (kg)
1"	77	22.1	1"	87	89	132	1,500
1½"	82	34.8	1 1/2"	97	94	132	1,800
2"	82	47.5	2"	110	100	132	2,100
2½"	84	60.2	2 1/2"	127	109	132	2,700
3"	96	72.9	3"	142	124	165	4,800

butterfly valve, male/male, IDF (6551)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 161.08.11E.0012	● 161.08.11H.0012	● 161.08.11S.0012	● 161.08.11V.0012
1½"	● 161.10.11E.0012	● 161.10.11H.0012	● 161.10.11S.0012	● 161.10.11V.0012
2"	● 161.11.11E.0012	● 161.11.11H.0012	● 161.11.11S.0012	● 161.11.11V.0012
2½"	● 161.12.11E.0012	● 161.12.11H.0012	● 161.12.11S.0012	● 161.12.11V.0012
3"	● 161.13.11E.0012	● 161.13.11H.0012	● 161.13.11S.0012	● 161.13.11V.0012

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/male, IDF (6551)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 161.08.12E.0012	● 161.08.12H.0012	● 161.08.12S.0012	● 161.08.12V.0012
1½"	● 161.10.12E.0012	● 161.10.12H.0012	● 161.10.12S.0012	● 161.10.12V.0012
2"	● 161.11.12E.0012	● 161.11.12H.0012	● 161.11.12S.0012	● 161.11.12V.0012
2½"	● 161.12.12E.0012	● 161.12.12H.0012	● 161.12.12S.0012	● 161.12.12V.0012
3"	● 161.13.12E.0012	● 161.13.12H.0012	● 161.13.12S.0012	● 161.13.12V.0012

matt finish: at 6th position use a digit 2 in the ident number

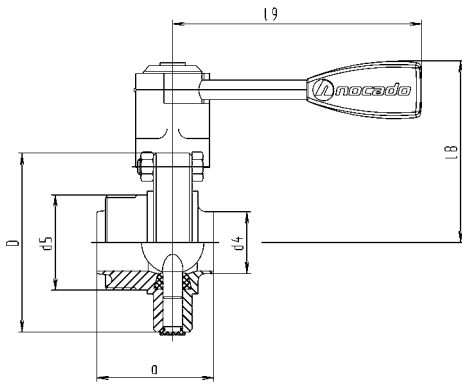
butterfly valve, male/liner, IDF (6561)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 161.08.11E.0078	○ 161.08.11H.0078	○ 161.08.11S.0078	○ 161.08.11V.0078
1½"	○ 161.10.11E.0078	○ 161.10.11H.0078	○ 161.10.11S.0078	○ 161.10.11V.0078
2"	○ 161.11.11E.0078	○ 161.11.11H.0078	○ 161.11.11S.0078	○ 161.11.11V.0078
2½"	○ 161.12.11E.0078	○ 161.12.11H.0078	○ 161.12.11S.0078	○ 161.12.11V.0078
3"	○ 161.13.11E.0078	○ 161.13.11H.0078	○ 161.13.11S.0078	○ 161.13.11V.0078

butterfly valve, male/liner, IDF (6561)

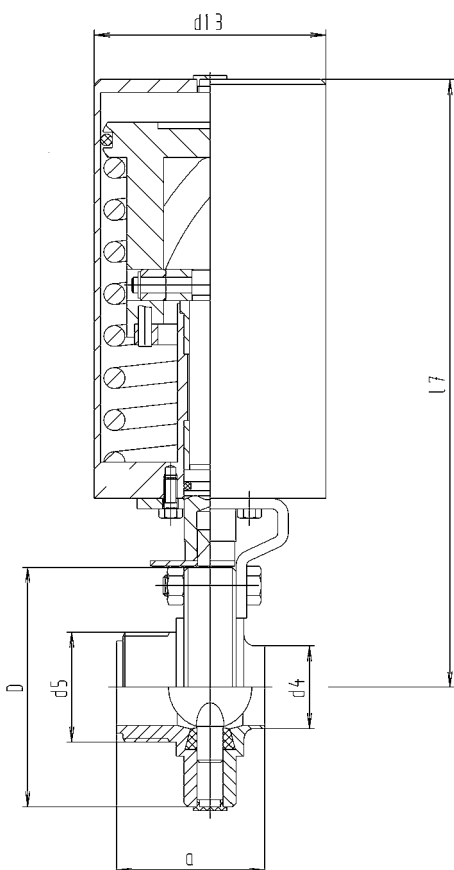
DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0078	○ 161.08.12H.0078	○ 161.08.12S.0078	○ 161.08.12V.0078
1½"	○ 161.10.12E.0078	○ 161.10.12H.0078	○ 161.10.12S.0078	○ 161.10.12V.0078
2"	○ 161.11.12E.0078	○ 161.11.12H.0078	○ 161.11.12S.0078	○ 161.11.12V.0078
2½"	○ 161.12.12E.0078	○ 161.12.12H.0078	○ 161.12.12S.0078	○ 161.12.12V.0078
3"	○ 161.13.12E.0078	○ 161.13.12H.0078	○ 161.13.12S.0078	○ 161.13.12V.0078

butterfly valve, male/ weld end, RJT (652R)



DN	a	d4	d5 - BS	D	l8	l9	weight (kg)
1"	57	25.4	46x1/8"	87	89	132	1,230
1½"	66	38.1	58,7x1/8"	97	94	132	1,760
2"	66	50.8	73x1/6"	110	100	132	2,025
2½"	68	63.5	85,7x1/6"	127	109	132	2,590
3"	80	76.1	98,4x1/6"	142	124	165	4,475

butterfly valve, RJT male/ weld end, air/spring (NC) (652R)



DN	a	d4	d5 - BS	D	d13	l7	weight (kg)
1"	57	25.4	46x1/8"	87	89	231	4,180
1½"	66	38.1	58,7x1/8"	97	89	236	4,720
2"	66	50.8	73x1/6"	110	89	242	5,015
2½"	68	63.5	85,7x1/6"	127	89	251	5,620
3"	80	76.1	98,4x1/6"	142	89	260	7,135

butterfly valve, male/ weld end, RJT (652R)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 161.08.11E.0079	○ 161.08.11H.0079	○ 161.08.11S.0079	○ 161.08.11V.0079
1½"	○ 161.10.11E.0079	○ 161.10.11H.0079	○ 161.10.11S.0079	○ 161.10.11V.0079
2"	○ 161.11.11E.0079	○ 161.11.11H.0079	○ 161.11.11S.0079	○ 161.11.11V.0079
2½"	○ 161.12.11E.0079	○ 161.12.11H.0079	○ 161.12.11S.0079	○ 161.12.11V.0079
3"	○ 161.13.11E.0079	○ 161.13.11H.0079	○ 161.13.11S.0079	○ 161.13.11V.0079

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/ weld end, RJT (652R)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0079	○ 161.08.12H.0079	○ 161.08.12S.0079	○ 161.08.12V.0079
1½"	○ 161.10.12E.0079	○ 161.10.12H.0079	○ 161.10.12S.0079	○ 161.10.12V.0079
2"	○ 161.11.12E.0079	○ 161.11.12H.0079	○ 161.11.12S.0079	○ 161.11.12V.0079
2½"	○ 161.12.12E.0079	○ 161.12.12H.0079	○ 161.12.12S.0079	○ 161.12.12V.0079
3"	○ 161.13.12E.0079	○ 161.13.12H.0079	○ 161.13.12S.0079	○ 161.13.12V.0079

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, RJT male/ weld end, air/spring (NC)
(652R)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 162.08.11E.0079	○ 162.08.11H.0079	○ 162.08.11S.0079	○ 162.08.11V.0079
1½"	○ 162.10.11E.0079	○ 162.10.11H.0079	○ 162.10.11S.0079	○ 162.10.11V.0079
2"	○ 162.11.11E.0079	○ 162.11.11H.0079	○ 162.11.11S.0079	○ 162.11.11V.0079
2½"	○ 162.12.11E.0079	○ 162.12.11H.0079	○ 162.12.11S.0079	○ 162.12.11V.0079
3"	○ 162.13.11E.0079	○ 162.13.11H.0079	○ 162.13.11S.0079	○ 162.13.11V.0079

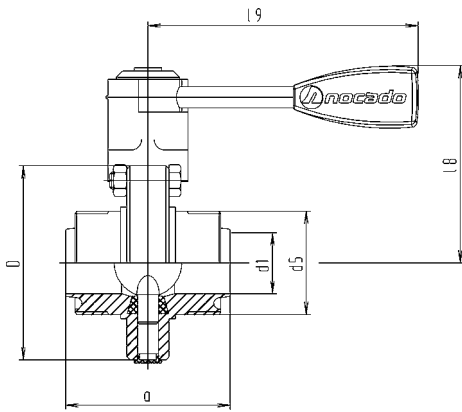
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, RJT male/ weld end, air/spring (NC)
(652R)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 162.08.12E.0079	○ 162.08.12H.0079	○ 162.08.12S.0079	○ 162.08.12V.0079
1½"	○ 162.10.12E.0079	○ 162.10.12H.0079	○ 162.10.12S.0079	○ 162.10.12V.0079
2"	○ 162.11.12E.0079	○ 162.11.12H.0079	○ 162.11.12S.0079	○ 162.11.12V.0079
2½"	○ 162.12.12E.0079	○ 162.12.12H.0079	○ 162.12.12S.0079	○ 162.12.12V.0079
3"	○ 162.13.12E.0079	○ 162.13.12H.0079	○ 162.13.12S.0079	○ 162.13.12V.0079

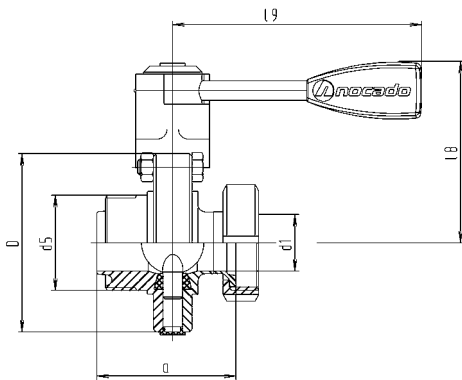
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, male/male, RJT (655R)



DN	a	d1	d5 - BS	D	l8	l9	weight (kg)
1"	74	22.9	46x1/8"	87	89	132	1,150
1½"	82	35.1	58.7x1/8"	97	94	132	2,000
2"	82	47.8	73x1/6"	110	100	132	2,250
2½"	86	60.5	85.7x1/6"	127	109	132	3,000
3"	100	97.6	98.4x1/6"	142	124	165	4,800

butterfly valve, male/liner, RJT (656R)



DN	d1	a	d5 - BS	D	l8	l9	weight (kg)
1"	22.2	77	46 x 1/8"	87	89	132	1,150
1½"	34.9	78	58,7 x 1/8"	97	94	132	2,000
2"	47.6	78	73,0 x 1/6"	110	100	132	2,250
2½"	60.3	80	85,7 x 1/6"	127	109	132	3,000
3"	73	92	98,4 x 1/6"	142	124	165	4,800

butterfly valve, male/male, RJT (655R)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	● 161.08.11E.0013	● 161.08.11H.0013	● 161.08.11S.0013	● 161.08.11V.0013
1½"	● 161.10.11E.0013	● 161.10.11H.0013	● 161.10.11S.0013	● 161.10.11V.0013
2"	● 161.11.11E.0013	● 161.11.11H.0013	● 161.11.11S.0013	● 161.11.11V.0013
2½"	● 161.12.11E.0013	● 161.12.11H.0013	● 161.12.11S.0013	● 161.12.11V.0013
3"	● 161.13.11E.0013	● 161.13.11H.0013	● 161.13.11S.0013	● 161.13.11V.0013

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/male, RJT (655R)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	● 161.08.12E.0013	● 161.08.12H.0013	● 161.08.12S.0013	● 161.08.12V.0013
1½"	● 161.10.12E.0013	● 161.10.12H.0013	● 161.10.12S.0013	● 161.10.12V.0013
2"	● 161.11.12E.0013	● 161.11.12H.0013	● 161.11.12S.0013	● 161.11.12V.0013
2½"	● 161.12.12E.0013	● 161.12.12H.0013	● 161.12.12S.0013	● 161.12.12V.0013
3"	● 161.13.12E.0013	● 161.13.12H.0013	● 161.13.12S.0013	● 161.13.12V.0013

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/liner, RJT (656R)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 161.08.11E.0080	○ 161.08.11H.0080	○ 161.08.11S.0080	○ 161.08.11V.0080
1½"	○ 161.10.11E.0080	○ 161.10.11H.0080	○ 161.10.11S.0080	○ 161.10.11V.0080
2"	○ 161.11.11E.0080	○ 161.11.11H.0080	○ 161.11.11S.0080	○ 161.11.11V.0080
2½"	○ 161.12.11E.0080	○ 161.12.11H.0080	○ 161.12.11S.0080	○ 161.12.11V.0080
3"	○ 161.13.11E.0080	○ 161.13.11H.0080	○ 161.13.11S.0080	○ 161.13.11V.0080

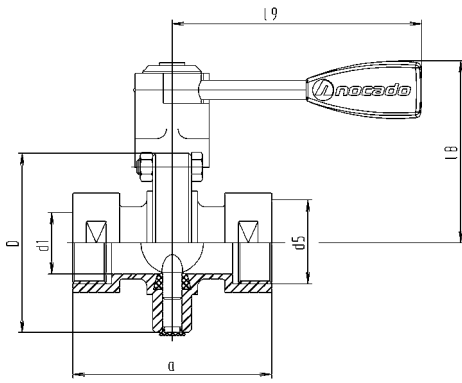
matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, male/liner, RJT (656R)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0080	○ 161.08.12H.0080	○ 161.08.12S.0080	○ 161.08.12V.0080
1½"	○ 161.10.12E.0080	○ 161.10.12H.0080	○ 161.10.12S.0080	○ 161.10.12V.0080
2"	○ 161.11.12E.0080	○ 161.11.12H.0080	○ 161.11.12S.0080	○ 161.11.12V.0080
2½"	○ 161.12.12E.0080	○ 161.12.12H.0080	○ 161.12.12S.0080	○ 161.12.12V.0080
3"	○ 161.13.12E.0080	○ 161.13.12H.0080	○ 161.13.12S.0080	○ 161.13.12V.0080

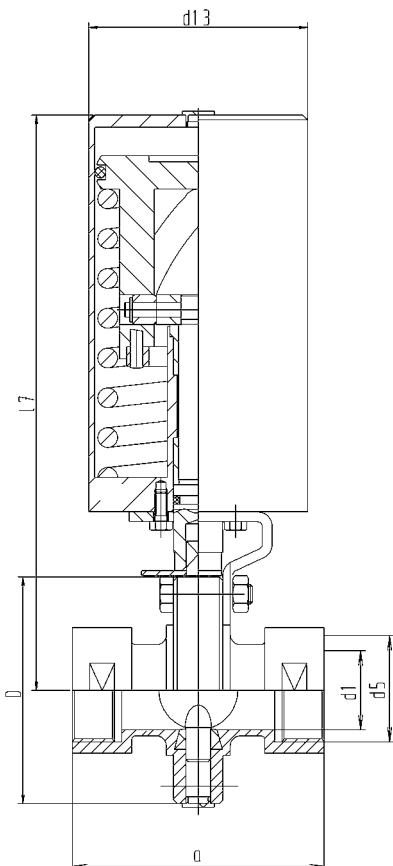
matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, inside/inside R-thread, BSP



DN	a	d1	d5	D	l8	l9	weight (kg)
1"	100	26	R 1"	87	89	132	1,730
1½"	110	38	R 1 1/2"	97	94	132	2,060
2"	110	50	R 2"	110	100	132	2,460
2½"	114	66	R 2 1/2"	127	109	132	3,040
3"	134	81	R 3"	142	124	165	5,150
4"	154	100	R 4"	162	135	165	6,100

butterfly valve, inside/inside R-thread, air/spring (NC), BSP



DN	a	d1	d5	D	d13	l7	weight (kg)
1"	100	26	R 1"	87	89	231	4,800
1½"	110	38	R 1 1/2"	97	89	236	5,020
2"	110	50	R 2"	110	89	242	5,450
2½"	114	66	R 2 1/2"	127	89	251	6,070
3"	134	81	R 3"	142	89	260	7,810
4"	154	100	R 4"	162	89	270	8,790

butterfly valve, inside/inside R-thread, BSP

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 161.08.11E.0082	○ 161.08.11H.0082	○ 161.08.11S.0082	○ 161.08.11V.0082
1½"	○ 161.10.11E.0082	○ 161.10.11H.0082	○ 161.10.11S.0082	○ 161.10.11V.0082
2"	○ 161.11.11E.0082	○ 161.11.11H.0082	○ 161.11.11S.0082	○ 161.11.11V.0082
2½"	○ 161.12.11E.0082	○ 161.12.11H.0082	○ 161.12.11S.0082	○ 161.12.11V.0082
3"	○ 161.13.11E.0082	○ 161.13.11H.0082	○ 161.13.11S.0082	○ 161.13.11V.0082
4"	○ 161.15.11E.0082	○ 161.15.11H.0082	○ 161.15.11S.0082	○ 161.15.11V.0082

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, inside/inside R-thread, BSP

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0082	○ 161.08.12H.0082	○ 161.08.12S.0082	○ 161.08.12V.0082
1½"	○ 161.10.12E.0082	○ 161.10.12H.0082	○ 161.10.12S.0082	○ 161.10.12V.0082
2"	○ 161.11.12E.0082	○ 161.11.12H.0082	○ 161.11.12S.0082	○ 161.11.12V.0082
2½"	○ 161.12.12E.0082	○ 161.12.12H.0082	○ 161.12.12S.0082	○ 161.12.12V.0082
3"	○ 161.13.12E.0082	○ 161.13.12H.0082	○ 161.13.12S.0082	○ 161.13.12V.0082
4"	○ 161.15.12E.0082	○ 161.15.12H.0082	○ 161.15.12S.0082	○ 161.15.12V.0082

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, inside/inside R-thread, air/spring (NC), BSP

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 162.08.11E.0082	○ 162.08.11H.0082	○ 162.08.11S.0082	○ 162.08.11V.0082
1½"	○ 162.10.11E.0082	○ 162.10.11H.0082	○ 162.10.11S.0082	○ 162.10.11V.0082
2"	○ 162.11.11E.0082	○ 162.11.11H.0082	○ 162.11.11S.0082	○ 162.11.11V.0082
2½"	○ 162.12.11E.0082	○ 162.12.11H.0082	○ 162.12.11S.0082	○ 162.12.11V.0082
3"	○ 162.13.11E.0082	○ 162.13.11H.0082	○ 162.13.11S.0082	○ 162.13.11V.0082
4"	○ 162.15.11E.0082	○ 162.15.11H.0082	○ 162.15.11S.0082	○ 162.15.11V.0082

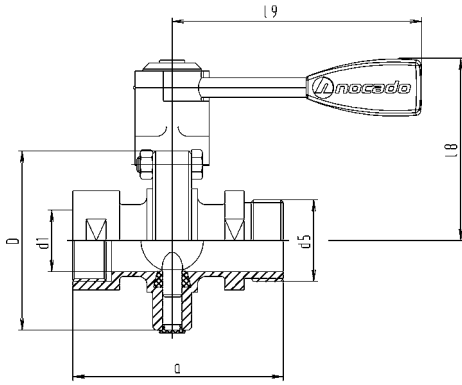
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, inside/inside R-thread, air/spring (NC), BSP

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 162.08.12E.0082	○ 162.08.12H.0082	○ 162.08.12S.0082	○ 162.08.12V.0082
1½"	○ 162.10.12E.0082	○ 162.10.12H.0082	○ 162.10.12S.0082	○ 162.10.12V.0082
2"	○ 162.11.12E.0082	○ 162.11.12H.0082	○ 162.11.12S.0082	○ 162.11.12V.0082
2½"	○ 162.12.12E.0082	○ 162.12.12H.0082	○ 162.12.12S.0082	○ 162.12.12V.0082
3"	○ 162.13.12E.0082	○ 162.13.12H.0082	○ 162.13.12S.0082	○ 162.13.12V.0082
4"	○ 162.15.12E.0082	○ 162.15.12H.0082	○ 162.15.12S.0082	○ 162.15.12V.0082

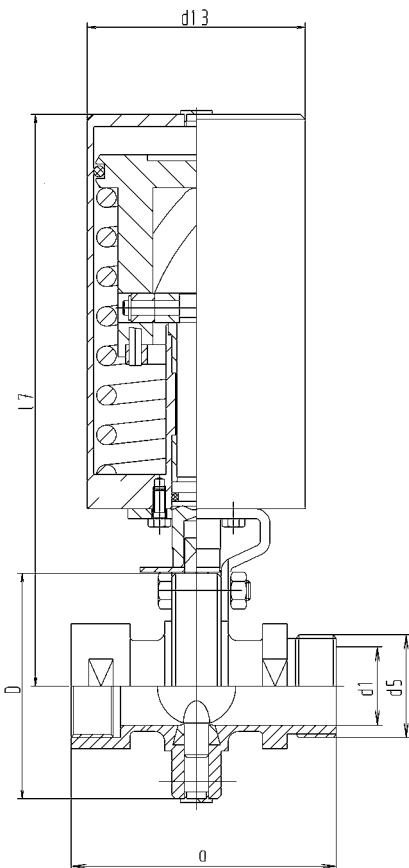
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, inside/outside R-thread, BSP



DN	a	d1	d5	D	l8	l9	weight (kg)
1"	106	26	R 1"	87	89	132	1,650
1½"	116	38	R 1 1/2"	97	94	132	1,930
2"	116	50	R 2"	110	100	132	2,290
2½"	120	66	R 2 1/2"	127	109	132	2,840
3"	142	81	R 3"	142	124	165	4,950
4"	161	100	R 4"	162	135	165	6,060

butterfly valve, inside/outside R-thread air/spring (NC), BSP



DN	a	d1	d5	D	d13	l7	weight (kg)
1"	106	26	R 1"	87	89	231	4,600
1½"	116	38	R 1 1/2"	97	89	236	4,890
2"	116	50	R 2"	110	89	242	5,280
2½"	120	66	R 2 1/2"	127	89	251	5,870
3"	142	81	R 3"	142	89	260	7,610
4"	161	100	R 4"	162	89	270	8,750

butterfly valve, inside/outside R-thread, BSP

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 161.08.11E.0083	○ 161.08.11H.0083	○ 161.08.11S.0083	○ 161.08.11V.0083
1½"	○ 161.10.11E.0083	○ 161.10.11H.0083	○ 161.10.11S.0083	○ 161.10.11V.0083
2"	○ 161.11.11E.0083	○ 161.11.11H.0083	○ 161.11.11S.0083	○ 161.11.11V.0083
2½"	○ 161.12.11E.0083	○ 161.12.11H.0083	○ 161.12.11S.0083	○ 161.12.11V.0083
3"	○ 161.13.11E.0083	○ 161.13.11H.0083	○ 161.13.11S.0083	○ 161.13.11V.0083
4"	○ 161.15.11E.0083	○ 161.15.11H.0083	○ 161.15.11S.0083	○ 161.15.11V.0083

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, inside/outside R-thread, BSP

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0083	○ 161.08.12H.0083	○ 161.08.12S.0083	○ 161.08.12V.0083
1½"	○ 161.10.12E.0083	○ 161.10.12H.0083	○ 161.10.12S.0083	○ 161.10.12V.0083
2"	○ 161.11.12E.0083	○ 161.11.12H.0083	○ 161.11.12S.0083	○ 161.11.12V.0083
2½"	○ 161.12.12E.0083	○ 161.12.12H.0083	○ 161.12.12S.0083	○ 161.12.12V.0083
3"	○ 161.13.12E.0083	○ 161.13.12H.0083	○ 161.13.12S.0083	○ 161.13.12V.0083
4"	○ 161.15.12E.0083	○ 161.15.12H.0083	○ 161.15.12S.0083	○ 161.15.12V.0083

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve, inside/outside R-thread air/spring (NC), BSP

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 162.08.11E.0083	○ 162.08.11H.0083	○ 162.08.11S.0083	○ 162.08.11V.0083
1½"	○ 162.10.11E.0083	○ 162.10.11H.0083	○ 162.10.11S.0083	○ 162.10.11V.0083
2"	○ 162.11.11E.0083	○ 162.11.11H.0083	○ 162.11.11S.0083	○ 162.11.11V.0083
2½"	○ 162.12.11E.0083	○ 162.12.11H.0083	○ 162.12.11S.0083	○ 162.12.11V.0083
3"	○ 162.13.11E.0083	○ 162.13.11H.0083	○ 162.13.11S.0083	○ 162.13.11V.0083
4"	○ 162.15.11E.0083	○ 162.15.11H.0083	○ 162.15.11S.0083	○ 162.15.11V.0083

matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve, inside/outside R-thread air/spring (NC), BSP

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 162.08.12E.0083	○ 162.08.12H.0083	○ 162.08.12S.0083	○ 162.08.12V.0083
1½"	○ 162.10.12E.0083	○ 162.10.12H.0083	○ 162.10.12S.0083	○ 162.10.12V.0083
2"	○ 162.11.12E.0083	○ 162.11.12H.0083	○ 162.11.12S.0083	○ 162.11.12V.0083
2½"	○ 162.12.12E.0083	○ 162.12.12H.0083	○ 162.12.12S.0083	○ 162.12.12V.0083
3"	○ 162.13.12E.0083	○ 162.13.12H.0083	○ 162.13.12S.0083	○ 162.13.12V.0083
4"	○ 162.15.12E.0083	○ 162.15.12H.0083	○ 162.15.12S.0083	○ 162.15.12V.0083

matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

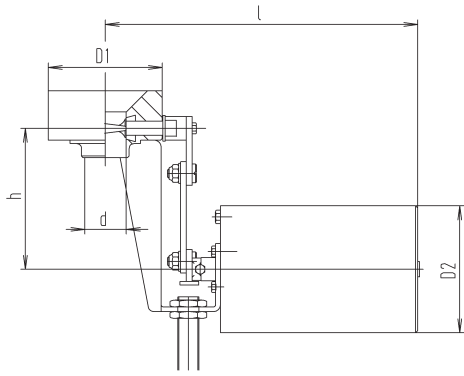
I.1 Butterfly valves

I.1.2 Butterfly valves • Tank bottom butterfly valves

page

Tank bottom butterfly valve, air/spring (NC), DIN	I.1.2-1
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tank bottom butterfly valve, air/spring (NC), DIN



DN	d	D1	D2	h	l	weight (kg)
40	38	97	90	120	259	4,807
50	50	110	90	120	265.5	5,694
65	66	127	108	120	305.5	8,177
75	72	142	108	120	313	9,665
80	81	142	108	120	313	9,278
100	100	162	108	120	323.5	10,353

tank bottom butterfly valve, air/spring (NC), DIN

DN	316 L EPDM polished Ident number	316 L EPDM matt Ident number	316 L HNBR polished Ident number	316 L EPDM matt Ident number
40	○ 162.10.12E.0086	○ 162.10.22E.0086	○ 162.10.12H.0086	○ 162.10.22H.0086
50	○ 162.11.12E.0086	○ 162.11.22E.0086	○ 162.11.12H.0086	○ 162.11.22H.0086
65	○ 162.12.12E.0086	○ 162.12.22E.0086	○ 162.12.12H.0086	○ 162.12.22H.0086
75	○ 162.13.12E.0086	○ 162.13.22E.0086	○ 162.13.12H.0086	○ 162.13.22H.0086
80	○ 162.14.12E.0086	○ 162.14.22E.0086	○ 162.14.12H.0086	○ 162.14.22H.0086
100	○ 162.15.12E.0086	○ 162.15.22E.0086	○ 162.15.12H.0086	○ 162.15.22H.0086
further versions on demand				

tank bottom butterfly valve, air/spring (NC), DIN

DN	316 L MVQ polished Ident number	316 L MVQ matt Ident number	316 L FPM polished Ident number	316 L FPM matt Ident number
40	○ 162.10.12S.0086	○ 162.10.22S.0086	○ 162.10.12V.0086	○ 162.10.22V.0086
50	○ 162.11.12S.0086	○ 162.11.22S.0086	○ 162.11.12V.0086	○ 162.11.22V.0086
65	○ 162.12.12S.0086	○ 162.12.22S.0086	○ 162.12.12V.0086	○ 162.12.22V.0086
75	○ 162.13.12S.0086	○ 162.13.22S.0086	○ 162.13.12V.0086	○ 162.13.22V.0086
80	○ 162.14.12S.0086	○ 162.14.22S.0086	○ 162.14.12V.0086	○ 162.14.22V.0086
100	○ 162.15.12S.0086	○ 162.15.22S.0086	○ 162.15.12V.0086	○ 162.15.22V.0086
further versions on demand				

1.1 Butterfly valves

1.1.3 Butterfly valves • T-Butterfly valves

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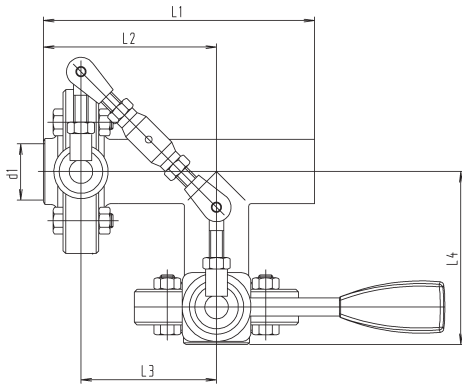
Butterfly valve t-combination, angle action, weld ends (tubes according DIN 11850 line 2).....	1.1.3-1
Butterfly valve t-combination, straight action, weld ends tubes according DIN 11850 line 2).....	1.1.3-3
Butterfly valve t-combination, DIN 11851 male, angle action.....	1.1.3-5
Butterfly valve t-combination, DIN 11851 male, straight action	1.1.3-7
Butterfly valve t-combination, DIN 11851 male, straight action	1.1.3-7

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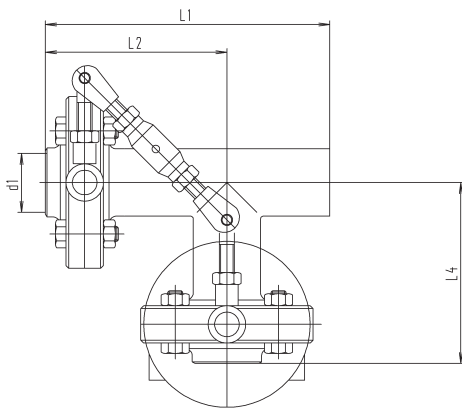
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butterfly valve t-combi. angle action, weld ends (f. tub.acc. DIN 11850 line 2)



DN	d1	I1	I2	I3	I4	weight (kg)
25	26	140	90	69	90	-
32	32	152	97	75	97	-
40	38	170	110	80	110	-
50	50	190	120	89	120	-
65	66	210	130	101	130	-
80	81	240	150	115	150	-
100	100	264	164	130	164	-

butterfly valve t-combi. angle action, weld ends, air/spr. (NC) (f. tub. acc. DIN 11850 I.2)



DN	d1	I1	I2	I4	weight (kg)
25	26	140	90	90	-
32	32	152	97	97	-
40	38	170	110	110	-
50	50	190	120	120	-
65	66	210	130	130	-
80	81	240	150	150	-
100	100	264	164	164	-

butterfly valve t-combi. angle action, weld ends (f. tub. acc. DIN 11850 line 2)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 163.08.11E.0012	○ 163.08.11H.0012	○ 163.08.11S.0012	○ 163.08.11V.0012
32	○ 163.09.11E.0012	○ 163.09.11H.0012	○ 163.09.11S.0012	○ 163.09.11V.0012
40	○ 163.10.11E.0012	○ 163.10.11H.0012	○ 163.10.11S.0012	○ 163.10.11V.0012
50	○ 163.11.11E.0012	○ 163.11.11H.0012	○ 163.11.11S.0012	○ 163.11.11V.0012
65	○ 163.12.11E.0012	○ 163.12.11H.0012	○ 163.12.11S.0012	○ 163.12.11V.0012
80	○ 163.14.11E.0012	○ 163.14.11H.0012	○ 163.14.11S.0012	○ 163.14.11V.0012
100	○ 163.15.11E.0012	○ 163.15.11H.0012	○ 163.15.11S.0012	○ 163.15.11V.0012

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combi. angle action, weld ends (f. tub. acc. DIN 11850 line 2)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 163.08.12E.0012	○ 163.08.12H.0012	○ 163.08.12S.0012	○ 163.08.12V.0012
32	○ 163.09.12E.0012	○ 163.09.12H.0012	○ 163.09.12S.0012	○ 163.09.12V.0012
40	○ 163.10.12E.0012	○ 163.10.12H.0012	○ 163.10.12S.0012	○ 163.10.12V.0012
50	○ 163.11.12E.0012	○ 163.11.12H.0012	○ 163.11.12S.0012	○ 163.11.12V.0012
65	○ 163.12.12E.0012	○ 163.12.12H.0012	○ 163.12.12S.0012	○ 163.12.12V.0012
80	○ 163.14.12E.0012	○ 163.14.12H.0012	○ 163.14.12S.0012	○ 163.14.12V.0012
100	○ 163.15.12E.0012	○ 163.15.12H.0012	○ 163.15.12S.0012	○ 163.15.12V.0012

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combi. angle action, weld ends, air/spr. (NC) (f. tub. acc. DIN 11850 I.2)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 164.08.11E.0012	○ 164.08.11H.0012	○ 164.08.11S.0012	○ 164.08.11V.0012
32	○ 164.09.11E.0012	○ 164.09.11H.0012	○ 164.09.11S.0012	○ 164.09.11V.0012
40	○ 164.10.11E.0012	○ 164.10.11H.0012	○ 164.10.11S.0012	○ 164.10.11V.0012
50	○ 164.11.11E.0012	○ 164.11.11H.0012	○ 164.11.11S.0012	○ 164.11.11V.0012
65	○ 164.12.11E.0012	○ 164.12.11H.0012	○ 164.12.11S.0012	○ 164.12.11V.0012
80	○ 164.14.11E.0012	○ 164.14.11H.0012	○ 164.14.11S.0012	○ 164.14.11V.0012
100	○ 164.15.11E.0012	○ 164.15.11H.0012	○ 164.15.11S.0012	○ 164.15.11V.0012

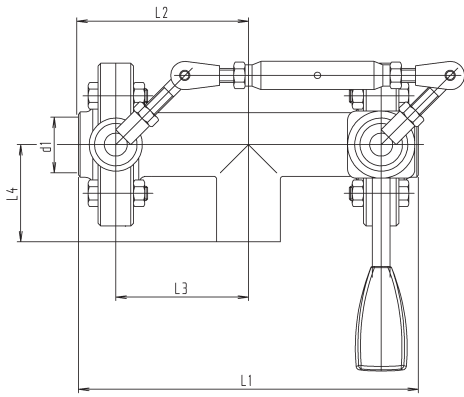
matt finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combi. angle action, weld ends, air/spr. (NC) (f. tub. acc. DIN 11850 I.2)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 164.08.12E.0012	○ 164.08.12H.0012	○ 164.08.12S.0012	○ 164.08.12V.0012
32	○ 164.09.12E.0012	○ 164.09.12H.0012	○ 164.09.12S.0012	○ 164.09.12V.0012
40	○ 164.10.12E.0012	○ 164.10.12H.0012	○ 164.10.12S.0012	○ 164.10.12V.0012
50	○ 164.11.12E.0012	○ 164.11.12H.0012	○ 164.11.12S.0012	○ 164.11.12V.0012
65	○ 164.12.12E.0012	○ 164.12.12H.0012	○ 164.12.12S.0012	○ 164.12.12V.0012
80	○ 164.14.12E.0012	○ 164.14.12H.0012	○ 164.14.12S.0012	○ 164.14.12V.0012
100	○ 164.15.12E.0012	○ 164.15.12H.0012	○ 164.15.12S.0012	○ 164.15.12V.0012

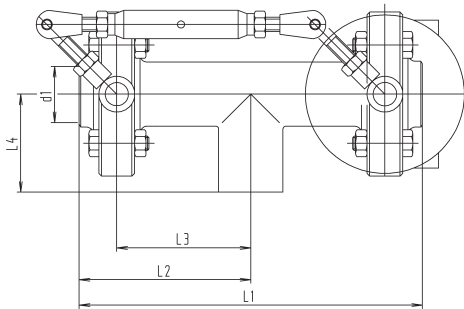
matt finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combi. straight action, weld ends (f. tub.acc. DIN 11850 line 2)



DN	d1	I1	I2	I3	I4	weight (kg)
25	26	180	90	69	50	-
32	32	194	97	75	55	-
40	38	220	110	80	60	-
50	50	240	120	89	70	-
65	66	260	130	101	80	-
80	81	300	150	115	90	-
100	100	328	164	130	100	-

butterfly valve t-combi. straight action, weld ends, air/spr. (NC) (f. tub. acc. DIN 11850 2)



DN	d1	I1	I2	I3	I4	weight (kg)
25	26	180	90	69	50	-
32	32	194	97	75	55	-
40	38	220	110	80	60	-
50	50	240	120	89	70	-
65	66	260	130	101	80	-
80	81	300	150	115	90	-
100	100	328	164	130	100	-

butterfly valve t-combi. straight action, weld ends (f. tub. acc. DIN 11850 line 2)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 163.08.11E.0013	○ 163.08.11H.0013	○ 163.08.11S.0013	○ 163.08.11V.0013
32	○ 163.09.11E.0013	○ 163.09.11H.0013	○ 163.09.11S.0013	○ 163.09.11V.0013
40	○ 163.10.11E.0013	○ 163.10.11H.0013	○ 163.10.11S.0013	○ 163.10.11V.0013
50	○ 163.11.11E.0013	○ 163.11.11H.0013	○ 163.11.11S.0013	○ 163.11.11V.0013
65	○ 163.12.11E.0013	○ 163.12.11H.0013	○ 163.12.11S.0013	○ 163.12.11V.0013
80	○ 163.14.11E.0013	○ 163.14.11H.0013	○ 163.14.11S.0013	○ 163.14.11V.0013
100	○ 163.15.11E.0013	○ 163.15.11H.0013	○ 163.15.11S.0013	○ 163.15.11V.0013

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combi. straight action, weld ends (f. tub. acc. DIN 11850 line 2)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 163.08.12E.0013	○ 163.08.12H.0013	○ 163.08.12S.0013	○ 163.08.12V.0013
32	○ 163.09.12E.0013	○ 163.09.12H.0013	○ 163.09.12S.0013	○ 163.09.12V.0013
40	○ 163.10.12E.0013	○ 163.10.12H.0013	○ 163.10.12S.0013	○ 163.10.12V.0013
50	○ 163.11.12E.0013	○ 163.11.12H.0013	○ 163.11.12S.0013	○ 163.11.12V.0013
65	○ 163.12.12E.0013	○ 163.12.12H.0013	○ 163.12.12S.0013	○ 163.12.12V.0013
80	○ 163.14.12E.0013	○ 163.14.12H.0013	○ 163.14.12S.0013	○ 163.14.12V.0013
100	○ 163.15.12E.0013	○ 163.15.12H.0013	○ 163.15.12S.0013	○ 163.15.12V.0013

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combi. straight action, weld ends, air/spr. (NC) (f. tub. acc. DIN 11850 2)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 164.08.11E.0013	○ 164.08.11H.0013	○ 164.08.11S.0013	○ 164.08.11V.0013
32	○ 164.09.11E.0013	○ 164.09.11H.0013	○ 164.09.11S.0013	○ 164.09.11V.0013
40	○ 164.10.11E.0013	○ 164.10.11H.0013	○ 164.10.11S.0013	○ 164.10.11V.0013
50	○ 164.11.11E.0013	○ 164.11.11H.0013	○ 164.11.11S.0013	○ 164.11.11V.0013
65	○ 164.12.11E.0013	○ 164.12.11H.0013	○ 164.12.11S.0013	○ 164.12.11V.0013
80	○ 164.14.11E.0013	○ 164.14.11H.0013	○ 164.14.11S.0013	○ 164.14.11V.0013
100	○ 164.15.11E.0013	○ 164.15.11H.0013	○ 164.15.11S.0013	○ 164.15.11V.0013

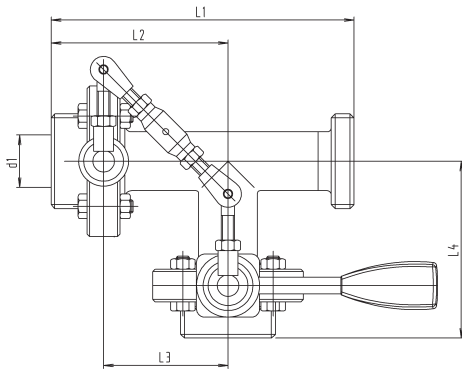
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve t-combi. straight action, weld ends, air/spr. (NC) (f. tub. acc. DIN 11850 2)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 164.08.12E.0013	○ 164.08.12H.0013	○ 164.08.12S.0013	○ 164.08.12V.0013
32	○ 164.09.12E.0013	○ 164.09.12H.0013	○ 164.09.12S.0013	○ 164.09.12V.0013
40	○ 164.10.12E.0013	○ 164.10.12H.0013	○ 164.10.12S.0013	○ 164.10.12V.0013
50	○ 164.11.12E.0013	○ 164.11.12H.0013	○ 164.11.12S.0013	○ 164.11.12V.0013
65	○ 164.12.12E.0013	○ 164.12.12H.0013	○ 164.12.12S.0013	○ 164.12.12V.0013
80	○ 164.14.12E.0013	○ 164.14.12H.0013	○ 164.14.12S.0013	○ 164.14.12V.0013
100	○ 164.15.12E.0013	○ 164.15.12H.0013	○ 164.15.12S.0013	○ 164.15.12V.0013

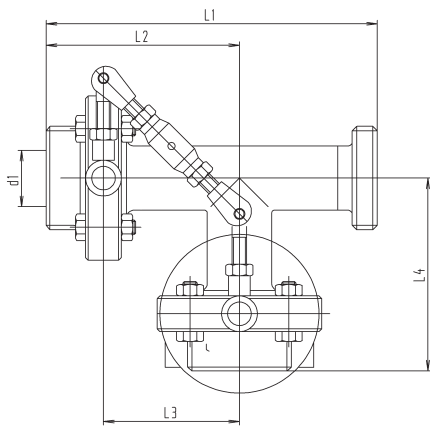
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve t-combination, DIN 11851 male, angle action



DN	d1	I1	I2	I3	I4	weight (kg)
25	26	173	101	69	101	-
32	32	184	107	75	107	-
40	38	198	116	80	116	-
50	50	218	125	89	125	-
65	66	244	139	101	139	-
80	81	280	165	115	165	-
100	100	312	182	130	182	-

butterfly valve t-combi. DIN 11851 male, angle action, air/spring (NC)



DN	d1	I1	I2	I3	I4	weight (kg)
25	26	173	101	69	101	-
32	32	184	107	75	107	-
40	38	198	116	80	116	-
50	50	218	125	89	125	-
65	66	244	139	101	139	-
80	81	280	165	115	165	-
100	100	312	182	130	182	-

butterfly valve t-combination, DIN 11851 male, angle action

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 163.08.11E.0014	○ 163.08.11H.0014	○ 163.08.11S.0014	○ 163.08.11V.0014
32	○ 163.09.11E.0014	○ 163.09.11H.0014	○ 163.09.11S.0014	○ 163.09.11V.0014
40	○ 163.10.11E.0014	○ 163.10.11H.0014	○ 163.10.11S.0014	○ 163.10.11V.0014
50	○ 163.11.11E.0014	○ 163.11.11H.0014	○ 163.11.11S.0014	○ 163.11.11V.0014
65	○ 163.12.11E.0014	○ 163.12.11H.0014	○ 163.12.11S.0014	○ 163.12.11V.0014
80	○ 163.14.11E.0014	○ 163.14.11H.0014	○ 163.14.11S.0014	○ 163.14.11V.0014
100	○ 163.15.11E.0014	○ 163.15.11H.0014	○ 163.15.11S.0014	○ 163.15.11V.0014

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combination, DIN 11851 male, angle action

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 163.08.12E.0014	○ 163.08.12H.0014	○ 163.08.12S.0014	○ 163.08.12V.0014
32	○ 163.09.12E.0014	○ 163.09.12H.0014	○ 163.09.12S.0014	○ 163.09.12V.0014
40	○ 163.10.12E.0014	○ 163.10.12H.0014	○ 163.10.12S.0014	○ 163.10.12V.0014
50	○ 163.11.12E.0014	○ 163.11.12H.0014	○ 163.11.12S.0014	○ 163.11.12V.0014
65	○ 163.12.12E.0014	○ 163.12.12H.0014	○ 163.12.12S.0014	○ 163.12.12V.0014
80	○ 163.14.12E.0014	○ 163.14.12H.0014	○ 163.14.12S.0014	○ 163.14.12V.0014
100	○ 163.15.12E.0014	○ 163.15.12H.0014	○ 163.15.12S.0014	○ 163.15.12V.0014

matt finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combi. DIN 11851 male, angle action, air/spring (NC)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 164.08.11E.0014	○ 164.08.11H.0014	○ 164.08.11S.0014	○ 164.08.11V.0014
32	○ 164.09.11E.0014	○ 164.09.11H.0014	○ 164.09.11S.0014	○ 164.09.11V.0014
40	○ 164.10.11E.0014	○ 164.10.11H.0014	○ 164.10.11S.0014	○ 164.10.11V.0014
50	○ 164.11.11E.0014	○ 164.11.11H.0014	○ 164.11.11S.0014	○ 164.11.11V.0014
65	○ 164.12.11E.0014	○ 164.12.11H.0014	○ 164.12.11S.0014	○ 164.12.11V.0014
80	○ 164.14.11E.0014	○ 164.14.11H.0014	○ 164.14.11S.0014	○ 164.14.11V.0014
100	○ 164.15.11E.0014	○ 164.15.11H.0014	○ 164.15.11S.0014	○ 164.15.11V.0014

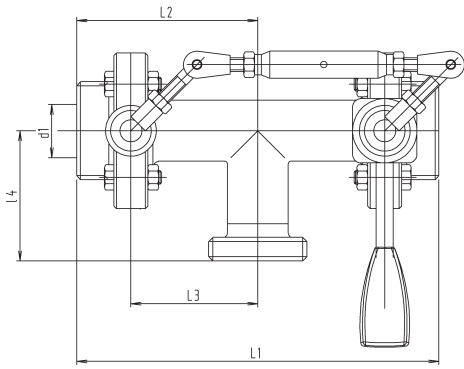
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve t-combi. DIN 11851 male, angle action, air/spring (NC)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 164.08.12E.0014	○ 164.08.12H.0014	○ 164.08.12S.0014	○ 164.08.12V.0014
32	○ 164.09.12E.0014	○ 164.09.12H.0014	○ 164.09.12S.0014	○ 164.09.12V.0014
40	○ 164.10.12E.0014	○ 164.10.12H.0014	○ 164.10.12S.0014	○ 164.10.12V.0014
50	○ 164.11.12E.0014	○ 164.11.12H.0014	○ 164.11.12S.0014	○ 164.11.12V.0014
65	○ 164.12.12E.0014	○ 164.12.12H.0014	○ 164.12.12S.0014	○ 164.12.12V.0014
80	○ 164.14.12E.0014	○ 164.14.12H.0014	○ 164.14.12S.0014	○ 164.14.12V.0014
100	○ 164.15.12E.0014	○ 164.15.12H.0014	○ 164.15.12S.0014	○ 164.15.12V.0014

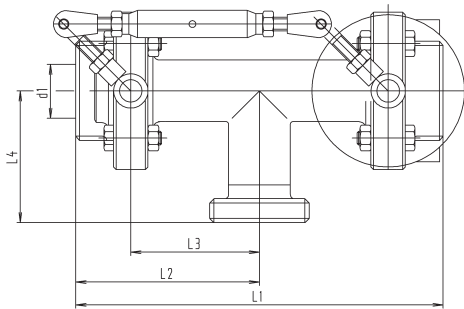
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve t-combination, DIN 11851 male, straight action



DN	d1	I1	I2	I3	I4	weight (kg)
25	26	202	101	69	72	-
32	32	214	107	75	77	-
40	38	232	116	80	82	-
50	50	250	125	89	93	-
65	66	278	139	101	105	-
80	81	330	165	115	115	-
100	100	364	182	130	130	-

butterfly valve t-combi. DIN 11851 male, straight action, air/spring (NC)



DN	d1	I1	I2	I3	I4	weight (kg)
25	26	202	101	69	72	-
32	32	214	107	75	77	-
40	38	232	116	80	82	-
50	50	250	125	89	93	-
65	66	278	139	101	105	-
80	81	330	165	115	115	-
100	100	364	182	130	130	-

butterfly valve t-combination, DIN 11851 male, straight action

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 163.08.11E.0015	○ 163.08.11H.0015	○ 163.08.11S.0015	○ 163.08.11V.0015
32	○ 163.09.11E.0015	○ 163.09.11H.0015	○ 163.09.11S.0015	○ 163.09.11V.0015
40	○ 163.10.11E.0015	○ 163.10.11H.0015	○ 163.10.11S.0015	○ 163.10.11V.0015
50	○ 163.11.11E.0015	○ 163.11.11H.0015	○ 163.11.11S.0015	○ 163.11.11V.0015
65	○ 163.12.11E.0015	○ 163.12.11H.0015	○ 163.12.11S.0015	○ 163.12.11V.0015
80	○ 163.14.11E.0015	○ 163.14.11H.0015	○ 163.14.11S.0015	○ 163.14.11V.0015
100	○ 163.15.11E.0015	○ 163.15.11H.0015	○ 163.15.11S.0015	○ 163.15.11V.0015

mat finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combination, DIN 11851 male, straight action

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 163.08.12E.0015	○ 163.08.12H.0015	○ 163.08.12S.0015	○ 163.08.12V.0015
32	○ 163.09.12E.0015	○ 163.09.12H.0015	○ 163.09.12S.0015	○ 163.09.12V.0015
40	○ 163.10.12E.0015	○ 163.10.12H.0015	○ 163.10.12S.0015	○ 163.10.12V.0015
50	○ 163.11.12E.0015	○ 163.11.12H.0015	○ 163.11.12S.0015	○ 163.11.12V.0015
65	○ 163.12.12E.0015	○ 163.12.12H.0015	○ 163.12.12S.0015	○ 163.12.12V.0015
80	○ 163.14.12E.0015	○ 163.14.12H.0015	○ 163.14.12S.0015	○ 163.14.12V.0015
100	○ 163.15.12E.0015	○ 163.15.12H.0015	○ 163.15.12S.0015	○ 163.15.12V.0015

mat finish: at 6th position use a digit 2 in the ident number

butterfly valve t-combi. DIN 11851 male, straight action, air/spring (NC)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 164.08.11E.0015	○ 164.08.11H.0015	○ 164.08.11S.0015	○ 164.08.11V.0015
32	○ 164.09.11E.0015	○ 164.09.11H.0015	○ 164.09.11S.0015	○ 164.09.11V.0015
40	○ 164.10.11E.0015	○ 164.10.11H.0015	○ 164.10.11S.0015	○ 164.10.11V.0015
50	○ 164.11.11E.0015	○ 164.11.11H.0015	○ 164.11.11S.0015	○ 164.11.11V.0015
65	○ 164.12.11E.0015	○ 164.12.11H.0015	○ 164.12.11S.0015	○ 164.12.11V.0015
80	○ 164.14.11E.0015	○ 164.14.11H.0015	○ 164.14.11S.0015	○ 164.14.11V.0015
100	○ 164.15.11E.0015	○ 164.15.11H.0015	○ 164.15.11S.0015	○ 164.15.11V.0015

mat finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

butterfly valve t-combi. DIN 11851 male, straight action, air/spring (NC)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 164.08.12E.0015	○ 164.08.12H.0015	○ 164.08.12S.0015	○ 164.08.12V.0015
32	○ 164.09.12E.0015	○ 164.09.12H.0015	○ 164.09.12S.0015	○ 164.09.12V.0015
40	○ 164.10.12E.0015	○ 164.10.12H.0015	○ 164.10.12S.0015	○ 164.10.12V.0015
50	○ 164.11.12E.0015	○ 164.11.12H.0015	○ 164.11.12S.0015	○ 164.11.12V.0015
65	○ 164.12.12E.0015	○ 164.12.12H.0015	○ 164.12.12S.0015	○ 164.12.12V.0015
80	○ 164.14.12E.0015	○ 164.14.12H.0015	○ 164.14.12S.0015	○ 164.14.12V.0015
100	○ 164.15.12E.0015	○ 164.15.12H.0015	○ 164.15.12S.0015	○ 164.15.12V.0015

mat finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

1.1 Butterfly valves

1.1.4 Butterfly valves • leakage butterfly valves

page

Technical Information

Leakage BV, between flanges, without rinsing-connection (for tubes acc. DIN 11850 line 2) (661)	1.1.4-1
Leakage BV, between flanges, air/spring (NC), without rinsing-connection (for tubes acc. DIN 11850 line 2) (661)	1.1.4-1
Leakage BV, between flanges, with rinsing-connection (for tubes acc. DIN 11850 line 2) (661Z)	1.1.4-3
Leakage BV, between flanges, air/spring (NC), with rinsing-connection (for tubes acc. DIN 11850 line 2) (661)	1.1.4-3
Leakage BV, between flanges, without rinsing-connection, inch OD (661Z)	1.1.4-5
Leakage BV, between flanges, air/spring (NC), without rinsing-connection, inch OD (661Z).....	1.1.4-5
Leakage BV, between flanges, with rinsing-connection, inch OD (661Z)	1.1.4-7
Leakage BV, between flanges, air/spring (NC), with rinsing-connection, inch OD (661Z).....	1.1.4-7

Valves



Leakage butterfly valves

Technical Information

Leakage butterfly valves

Application

- Wherever reliable separation of media is required and where the increased switching leakage compared to double seat mixproof valves and double seat valves can be compensated by the more economical price of the leakage butterfly valve.

Features

- In the basic version, two butterfly valves and one leakage valve are always switched simultaneously. As an extra option, leakage butterfly valves are available with rinsing valve.

When both butterfly flaps are closed, the leakage valve is open. If leakage occurs in one of the butterfly valves, e.g. because a foreign body got stuck, the leakage can flow out under atmospheric pressure.

Besides the mechanical restricted guidance, a restricted guidance can also be obtained by the control unit. This reduces the switching losses at comparable investment costs.

- Hygienic
- Extremely sturdy, reliable in operation
- Available in nominal sizes from DN 25 to DN 125
- Always produced of forged or hot-rolled material

Design

- Manually actuated
- Pneumatically actuated
 - spring opening
 - spring closing
 - air/air
- For welding on
- As intermediate flange version
- With pipe connections from the Nocado lines
- End position feedback with
 - proximity initiators (also Namur)
 - mechanical limit switches
- Control head also with bus
- Sealing materials according to FDA directive
 - Silicone (also transparent version)
 - HNBR
 - EPDM
 - Viton

	nocanorm	nocaplus
Material:	AISI 304/304 L* AISI 316L**	AISI 316 L**, special stainless steel or titanium on request
Surface:	matt, machine-finished in contact with product $R_a < 1.6 \mu\text{m}$	electro-polished, matt blasted, other surfaces on request in contact with product $R_a < 0.8 \mu\text{m}$
Documentation:		specific test report 2.2 according to EN 10204, e.g. material certificate inspection certificate 3.1 according to EN 10204, e.g. material traceability from melting to finished product operating instructions and spare parts lists
Pressure:	PN 10	PN 10, higher pressures available on request

*AISI 304/304 L similar to 1.4301/1.4307

** AISI 316 L similar to 1.4404/1.4435

Technical Information

Leakage butterfly valves

Planning instructions

It is necessary to perform and document a risk analysis for each new installation to refute the reproach of negligence in the event of damage.

In certain areas, e.g. the separation of the operating or service water network from the public water supply, mixproof shut-off systems are required.

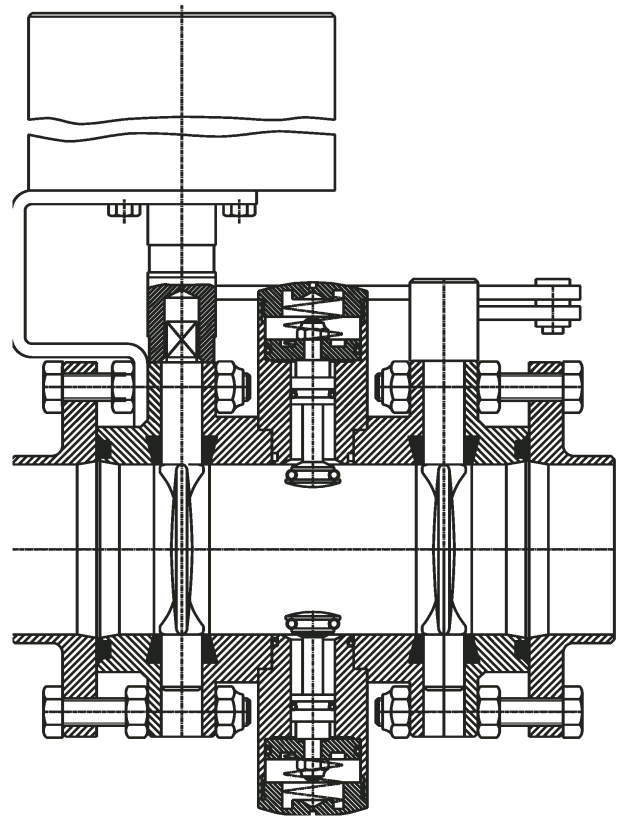
When analysing the risk, it is necessary to decide for each individual component the probability of component failure and the possible consequences in such cases. It is also necessary to consider the operating states that could occur in the event of a malfunction in which a component can no longer fulfill its function (e.g. "shut-off"), e.g. in the case of pressure increase resulting from thermal expansion.

If a hazard exists for employees or customers, suitable measures must be taken to prevent such hazard.

Since gaskets are subject to wear, it is never possible to exclude the possibility of a gasket failure. Usually, it is also not possible to exclude the possibility of a foreign body sticking in a valve.

Generally, it is necessary to avoid mixing two different mediums. Frequently, contamination is not detected by tests performed by quality assurance,

because tests for disinfectants or heat-carrying agents in the product are not performed regularly.



Nocado leakage butterfly valves are used preferably for all applications where reliable and hygienically perfect separation of the mediums is required and where the magnitude of the switching leakage is secondary, e.g. for CIP liquids, water and beverages.



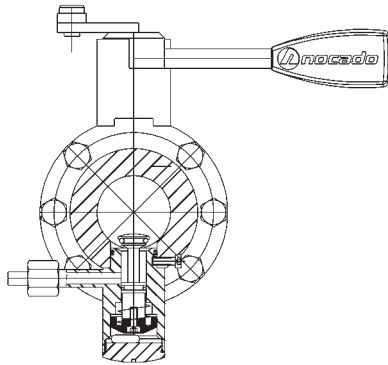
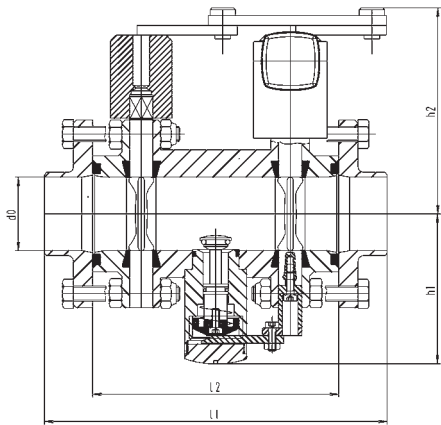
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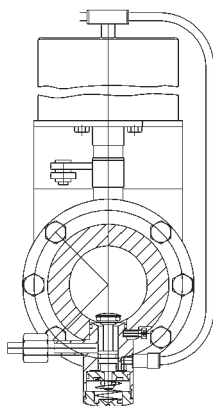
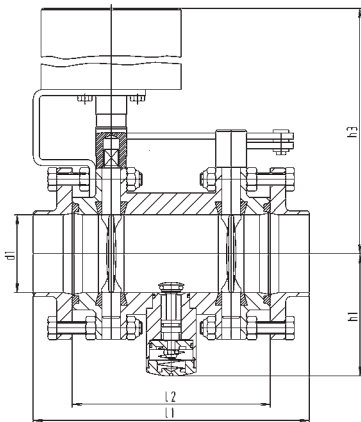
Technische Modifikationen, Preisänderungen und Irrtümer vorbehalten
Subject to technical modifications and changes in prices, errors excepted.

leak.-bv, betw. fl. without rinsing-con. (for tub. acc. DIN 11850 line 2) (66I)



DN	dI	hI	h2	II	I2	weight (kg)
25	26	72	102	167	127	-
32	32	75	104	167	127	-
40	38	79	107	177	127	-
50	50	84	113	177	127	-
65	66	92	122	177	127	-
80	81	100	133	226	166	-
100	100	109	144	246	186	-

leak.-bv, betw. fl. air/spr. (NC), without rinsing-con. (for tub.acc. DIN 11850 line 2) (66I)



DN	dI	hI	h3	II	I2	weight (kg)
25	26	68	256	167	127	-
32	32	71	259	167	127	-
40	38	74	261	177	127	-
50	50	80	267	177	127	-
65	66	88	307	177	127	-
80	81	96	316	226	166	-
100	100	105	326	246	186	-

leak.-bv, betw. fl. without rinsing-con. (for tub. acc. DIN 11850 line 2) (661)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 161.08.11E.0063	○ 161.08.11H.0063	○ 161.08.11S.0063	○ 161.08.11V.0063
32	○ 161.09.11E.0063	○ 161.09.11H.0063	○ 161.09.11S.0063	○ 161.09.11V.0063
40	○ 161.10.11E.0063	○ 161.10.11H.0063	○ 161.10.11S.0063	○ 161.10.11V.0063
50	○ 161.11.11E.0063	○ 161.11.11H.0063	○ 161.11.11S.0063	○ 161.11.11V.0063
65	○ 161.12.11E.0063	○ 161.12.11H.0063	○ 161.12.11S.0063	○ 161.12.11V.0063
80	○ 161.14.11E.0063	○ 161.14.11H.0063	○ 161.14.11S.0063	○ 161.14.11V.0063
100	○ 161.15.11E.0063	○ 161.15.11H.0063	○ 161.15.11S.0063	○ 161.15.11V.0063

matt finish: at 6th position use a digit 2 in the ident number

leak.-bv, betw. fl. without rinsing-con. (for tub. acc. DIN 11850 line 2) (661)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0063	○ 161.08.12H.0063	○ 161.08.12S.0063	○ 161.08.12V.0063
32	○ 161.09.12E.0063	○ 161.09.12H.0063	○ 161.09.12S.0063	○ 161.09.12V.0063
40	○ 161.10.12E.0063	○ 161.10.12H.0063	○ 161.10.12S.0063	○ 161.10.12V.0063
50	○ 161.11.12E.0063	○ 161.11.12H.0063	○ 161.11.12S.0063	○ 161.11.12V.0063
65	○ 161.12.12E.0063	○ 161.12.12H.0063	○ 161.12.12S.0063	○ 161.12.12V.0063
80	○ 161.14.12E.0063	○ 161.14.12H.0063	○ 161.14.12S.0063	○ 161.14.12V.0063
100	○ 161.15.12E.0063	○ 161.15.12H.0063	○ 161.15.12S.0063	○ 161.15.12V.0063

matt finish: at 6th position use a digit 2 in the ident number

leak.-bv, betw. fl. air/spr. (NC), without rinsing-con. (for tub. acc. DIN 11850 line 2) (661)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 162.08.11E.0063	○ 162.08.11H.0063	○ 162.08.11S.0063	○ 162.08.11V.0063
32	○ 162.09.11E.0063	○ 162.09.11H.0063	○ 162.09.11S.0063	○ 162.09.11V.0063
40	○ 162.10.11E.0063	○ 162.10.11H.0063	○ 162.10.11S.0063	○ 162.10.11V.0063
50	○ 162.11.11E.0063	○ 162.11.11H.0063	○ 162.11.11S.0063	○ 162.11.11V.0063
65	○ 162.12.11E.0063	○ 162.12.11H.0063	○ 162.12.11S.0063	○ 162.12.11V.0063
80	○ 162.14.11E.0063	○ 162.14.11H.0063	○ 162.14.11S.0063	○ 162.14.11V.0063
100	○ 162.15.11E.0063	○ 162.15.11H.0063	○ 162.15.11S.0063	○ 162.15.11V.0063

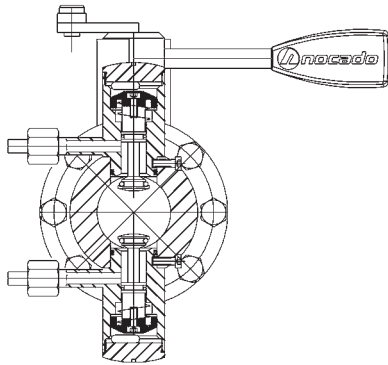
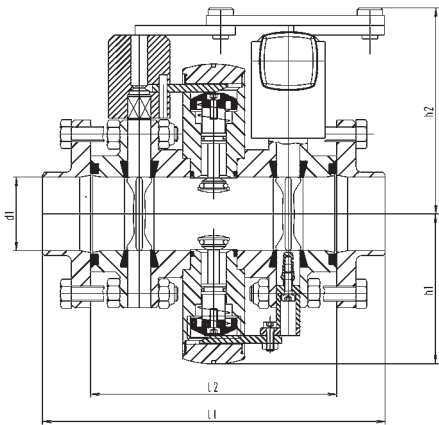
matt finish: at 6th position use a digit 2 in the ident number

leak.-bv, betw. fl. air/spr. (NC), without rinsing-con. (for tub. acc. DIN 11850 line 2) (661)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0063	○ 162.08.12H.0063	○ 162.08.12S.0063	○ 162.08.12V.0063
32	○ 162.09.12E.0063	○ 162.09.12H.0063	○ 162.09.12S.0063	○ 162.09.12V.0063
40	○ 162.10.12E.0063	○ 162.10.12H.0063	○ 162.10.12S.0063	○ 162.10.12V.0063
50	○ 162.11.12E.0063	○ 162.11.12H.0063	○ 162.11.12S.0063	○ 162.11.12V.0063
65	○ 162.12.12E.0063	○ 162.12.12H.0063	○ 162.12.12S.0063	○ 162.12.12V.0063
80	○ 162.14.12E.0063	○ 162.14.12H.0063	○ 162.14.12S.0063	○ 162.14.12V.0063
100	○ 162.15.12E.0063	○ 162.15.12H.0063	○ 162.15.12S.0063	○ 162.15.12V.0063

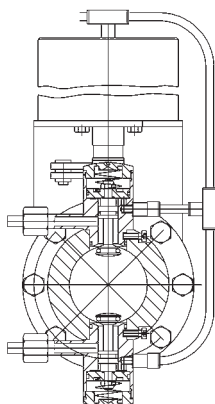
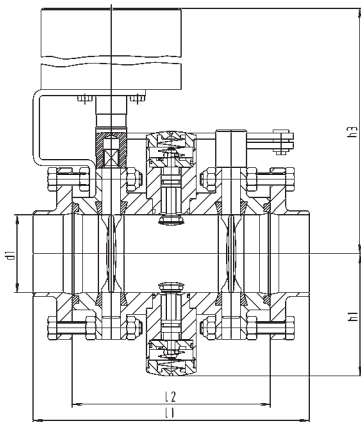
matt finish: at 6th position use a digit 2 in the ident number

leak.-bv, betw. fl. w. rinsing-con. (for tubing acc. DIN 11850 line 2) (661Z)



DN	dI	hI	h2	lI	l2	weight (kg)
25	26	72	102	167	127	-
32	32	75	104	167	127	-
40	38	79	107	177	127	-
50	50	84	113	177	127	-
65	66	92	122	177	127	-
80	81	100	133	226	166	-
100	100	109	144	246	186	-

leak.-bv, betw. fl. air/spr. (NC), w. rinsing-con. (for tub. acc. DIN 11850 line 2) (661)



DN	dI	hI	h3	lI	l2	weight (kg)
25	26	68	256	167	127	-
32	32	71	259	167	127	-
40	38	74	261	177	127	-
50	50	80	267	177	127	-
65	66	88	307	177	127	-
80	81	96	316	226	166	-
100	100	105	326	246	186	-

leak.-bv, betw. fl. w. rinsing-con. (for tubing acc. DIN 11850 line 2) (661Z)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 161.08.11E.0064	○ 161.08.11H.0064	○ 161.08.11S.0064	○ 161.08.11V.0064
32	○ 161.09.11E.0064	○ 161.09.11H.0064	○ 161.09.11S.0064	○ 161.09.11V.0064
40	○ 161.10.11E.0064	○ 161.10.11H.0064	○ 161.10.11S.0064	○ 161.10.11V.0064
50	○ 161.11.11E.0064	○ 161.11.11H.0064	○ 161.11.11S.0064	○ 161.11.11V.0064
65	○ 161.12.11E.0064	○ 161.12.11H.0064	○ 161.12.11S.0064	○ 161.12.11V.0064
80	○ 161.14.11E.0064	○ 161.14.11H.0064	○ 161.14.11S.0064	○ 161.14.11V.0064
100	○ 161.15.11E.0064	○ 161.15.11H.0064	○ 161.15.11S.0064	○ 161.15.11V.0064

matt finish: at 6th position use a digit 2 in the ident number

leak.-bv, betw. fl. w. rinsing-con. (for tubing acc. DIN 11850 line 2) (661Z)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 161.08.12E.0064	○ 161.08.12H.0064	○ 161.08.12S.0064	○ 161.08.12V.0064
32	○ 161.09.12E.0064	○ 161.09.12H.0064	○ 161.09.12S.0064	○ 161.09.12V.0064
40	○ 161.10.12E.0064	○ 161.10.12H.0064	○ 161.10.12S.0064	○ 161.10.12V.0064
50	○ 161.11.12E.0064	○ 161.11.12H.0064	○ 161.11.12S.006	○ 161.11.12V.0064
65	○ 161.12.12E.0064	○ 161.12.12H.0064	○ 161.12.12S.0064	○ 161.12.12V.0064
80	○ 161.14.12E.0064	○ 161.14.12H.0064	○ 161.14.12S.0064	○ 161.14.12V.0064
100	○ 161.15.12E.0064	○ 161.15.12H.0064	○ 161.15.12S.0064	○ 161.15.12V.0064

matt finish: at 6th position use a digit 2 in the ident number

leak.-bv, betw. fl. air/spr. (NC), w. rinsing-con. (for tub. acc. DIN 11850 line 2) (661)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
25	○ 162.08.11E.0064	○ 162.08.11H.0064	○ 162.08.11S.0064	○ 162.08.11V.0064
32	○ 162.09.11E.0064	○ 162.09.11H.0064	○ 162.09.11S.0064	○ 162.09.11V.0064
40	○ 162.10.11E.0064	○ 162.10.11H.0064	○ 162.10.11S.0064	○ 162.10.11V.0064
50	○ 162.11.11E.0064	○ 162.11.11H.0064	○ 162.11.11S.0064	○ 162.11.11V.0064
65	○ 162.12.11E.0064	○ 162.12.11H.0064	○ 162.12.11S.0064	○ 162.12.11V.0064
80	○ 162.14.11E.0064	○ 162.14.11H.0064	○ 162.14.11S.0064	○ 162.14.11V.0064
100	○ 162.15.11E.0064	○ 162.15.11H.0064	○ 162.15.11S.0064	○ 162.15.11V.0064

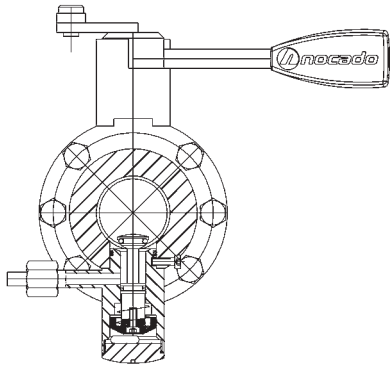
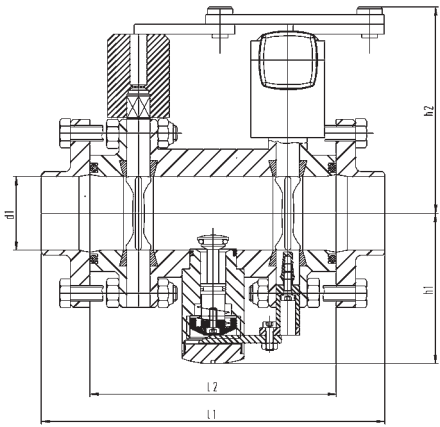
matt finish: at 6th position use a digit 2 in the ident number

leak.-bv, betw. fl. air/spr. (NC), w. rinsing-con. (for tub. acc. DIN 11850 line 2) (661)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
25	○ 162.08.12E.0064	○ 162.08.12H.0064	○ 162.08.12S.0064	○ 162.08.12V.0064
32	○ 162.09.12E.0064	○ 162.09.12H.0064	○ 162.09.12S.0064	○ 162.09.12V.0064
40	○ 162.10.12E.0064	○ 162.10.12H.0064	○ 162.10.12S.0064	○ 162.10.12V.0064
50	○ 162.11.12E.0064	○ 162.11.12H.0064	○ 162.11.12S.0064	○ 162.11.12V.0064
65	○ 162.12.12E.0064	○ 162.12.12H.0064	○ 162.12.12S.0064	○ 162.12.12V.0064
80	○ 162.14.12E.0064	○ 162.14.12H.0064	○ 162.14.12S.0064	○ 162.14.12V.0064
100	○ 162.15.12E.0064	○ 162.15.12H.0064	○ 162.15.12S.0064	○ 162.15.12V.0064

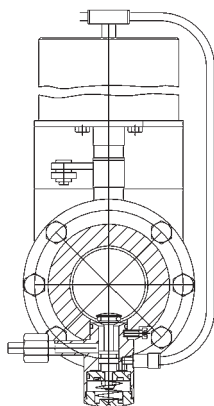
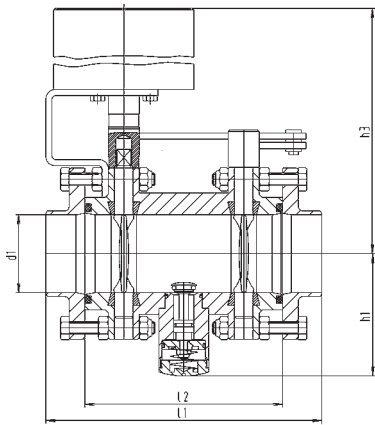
matt finish: at 6th position use a digit 2 in the ident number

leakage-bv, betw. fl. without rinsing-connection, inch OD (66IZ)



DN	d1	h1	h2	l1	l2	weight (kg)
1"	22.1	72	102	167	127	-
1 1/2"	34.8	79	107	177	127	-
2"	47.5	84	113	177	127	-
2 1/2"	60.2	92	122	177	127	-
3"	72.9	100	133	226	166	-
4"	97.4	109	144	246	186	-

leak.-bv, betw. fl. air/spr. (NC), without rinsing-con. inch OD (66IZ)



DN	d1	h1	h3	l1	l2	weight (kg)
1"	22.1	68	256	167	127	-
1 1/2"	34.8	74	261	177	127	-
2"	47.5	80	267	177	127	-
2 1/2"	60.2	88	307	177	127	-
3"	72.9	96	316	226	166	-
4"	97.4	105	326	246	186	-

leakage-bv, betw. fl. without rinsing-connection, inch OD (66IZ)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 161.08.11E.0065	○ 161.08.11H.0065	○ 161.08.11S.0065	○ 161.08.11V.0065
1 1/2"	○ 161.10.11E.0065	○ 161.10.11H.0065	○ 161.10.11S.0065	○ 161.10.11V.0065
2"	○ 161.11.11E.0065	○ 161.11.11H.0065	○ 161.11.11S.0065	○ 161.11.11V.0065
2 1/2"	○ 161.12.11E.0065	○ 161.12.11H.0065	○ 161.12.11S.0065	○ 161.12.11V.0065
3"	○ 161.13.11E.0065	○ 161.13.11H.0065	○ 161.13.11S.0065	○ 161.13.11V.0065
4"	○ 161.15.11E.0065	○ 161.15.11H.0065	○ 161.15.11S.0065	○ 161.15.11V.0065

matt finish: at 6th position use a digit 2 in the ident number

leakage-bv, betw. fl. without rinsing-connection, inch OD (66IZ)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0065	○ 161.08.12H.0065	○ 161.08.12S.0065	○ 161.08.12V.0065
1 1/2"	○ 161.10.12E.0065	○ 161.10.12H.0065	○ 161.10.12S.0065	○ 161.10.12V.0065
2"	○ 161.11.12E.0065	○ 161.11.12H.0065	○ 161.11.12S.0065	○ 161.11.12V.0065
2 1/2"	○ 161.12.12E.0065	○ 161.12.12H.0065	○ 161.12.12S.0065	○ 161.12.12V.0065
3"	○ 161.13.12E.0065	○ 161.13.12H.0065	○ 161.13.12S.0065	○ 161.13.12V.0065
4"	○ 161.15.12E.0065	○ 161.15.12H.0065	○ 161.15.12S.0065	○ 161.15.12V.0065

matt finish: at 6th position use a digit 2 in the ident number

leak-bv, betw. fl. air/spr. (NC), without rinsing-con. inch OD (66IZ)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 162.08.11E.0065	○ 162.08.11H.0065	○ 162.08.11S.0065	○ 162.08.11V.0065
1 1/2"	○ 162.10.11E.0065	○ 162.10.11H.0065	○ 162.10.11S.0065	○ 162.10.11V.0065
2"	○ 162.11.11E.0065	○ 162.11.11H.0065	○ 162.11.11S.0065	○ 162.11.11V.0065
2 1/2"	○ 162.12.11E.0065	○ 162.12.11H.0065	○ 162.12.11S.0065	○ 162.12.11V.0065
3"	○ 162.13.11E.0065	○ 162.13.11H.0065	○ 162.13.11S.0065	○ 162.13.11V.0065
4"	○ 162.15.11E.0065	○ 162.15.11H.0065	○ 162.15.11S.0065	○ 162.15.11V.0065

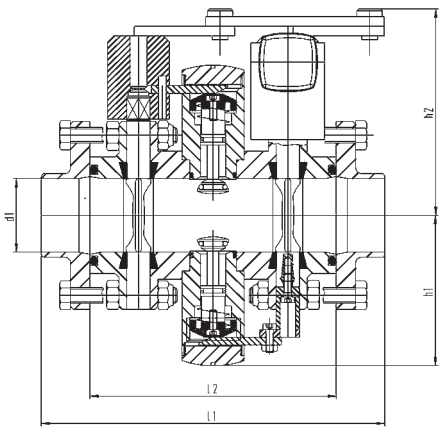
matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

leak-bv, betw. fl. air/spr. (NC), without rinsing-con. inch OD (66IZ)

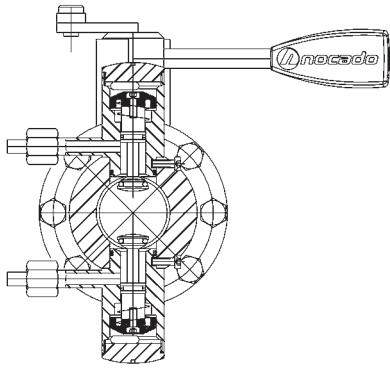
DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 162.08.12E.0065	○ 162.08.12H.0065	○ 162.08.12S.0065	○ 162.08.12V.0065
1 1/2"	○ 162.10.12E.0065	○ 162.10.12H.0065	○ 162.10.12S.0065	○ 162.10.12V.0065
2"	○ 162.11.12E.0065	○ 162.11.12H.0065	○ 162.11.12S.0065	○ 162.11.12V.0065
2 1/2"	○ 162.12.12E.0065	○ 162.12.12H.0065	○ 162.12.12S.0065	○ 162.12.12V.0065
3"	○ 162.13.12E.0065	○ 162.13.12H.0065	○ 162.13.12S.0065	○ 162.13.12V.0065
4"	○ 162.15.12E.0065	○ 162.15.12H.0065	○ 162.15.12S.0065	○ 162.15.12V.0065

matt finish: at 6th position use a digit 2 in the ident number - version FL (NO) and LL (air/air) available

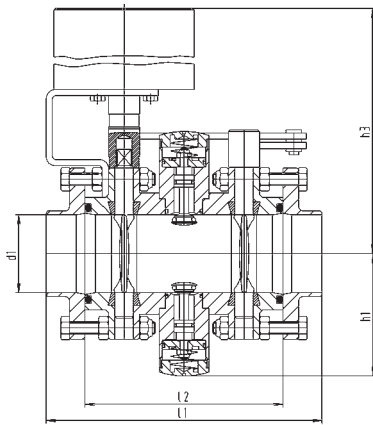
leakage-bv, betw. fl. with rinsing-connection, inch OD (66IZ)



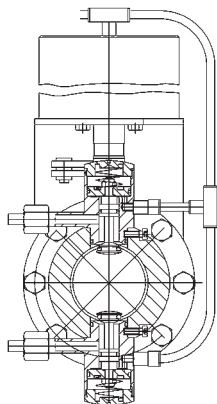
DN	dI	hI	h2	lI	l2	weight (kg)
1"	22.1	72	102	167	127	-
1 1/2"	34.8	79	107	177	127	-
2"	47.5	84	113	177	127	-
2 1/2"	60.2	92	122	177	127	-
3"	72.9	100	133	226	166	-
4"	97.4	109	144	246	186	-



leak.-bv, betw. fl. air/spr. (NC), with rinsing-connection, inch OD (66IZ)



DN	dI	hI	h3	lI	l2	weight (kg)
1"	22.1	68	256	167	127	-
1 1/2"	34.8	74	261	177	127	-
2"	47.5	80	267	177	127	-
2 1/2"	60.2	88	307	177	127	-
3"	72.9	96	316	226	166	-
4"	97.4	105	326	246	186	-



leakage-bv, betw. fl. with rinsing-connection, inch OD (66IZ)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 161.08.11E.0066	○ 161.08.11H.0066	○ 161.08.11S.0066	○ 161.08.11V.0066
1 1/2"	○ 161.10.11E.0066	○ 161.10.11H.0066	○ 161.10.11S.0066	○ 161.10.11V.0066
2"	○ 161.11.11E.0066	○ 161.11.11H.0066	○ 161.11.11S.0066	○ 161.11.11V.0066
2 1/2"	○ 161.12.11E.0066	○ 161.12.11H.0066	○ 161.12.11S.0066	○ 161.12.11V.0066
3"	○ 161.13.11E.0066	○ 161.13.11H.0066	○ 161.13.11S.0066	○ 161.13.11V.0066
4"	○ 161.15.11E.0066	○ 161.15.11H.0066	○ 161.15.11S.0066	○ 161.15.11V.0066

matt finish: at 6th position use a digit 2 in the ident number

leakage-bv, betw. fl. with rinsing-connection, inch OD (66IZ)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 161.08.12E.0066	○ 161.08.12H.0066	○ 161.08.12S.0066	○ 161.08.12V.0066
1 1/2"	○ 161.10.12E.0066	○ 161.10.12H.0066	○ 161.10.12S.0066	○ 161.10.12V.0066
2"	○ 161.11.12E.0066	○ 161.11.12H.0066	○ 161.11.12S.0066	○ 161.11.12V.0066
2 1/2"	○ 161.12.12E.0066	○ 161.12.12H.0066	○ 161.12.12S.0066	○ 161.12.12V.0066
3"	○ 161.13.12E.0066	○ 161.13.12H.0066	○ 161.13.12S.0066	○ 161.13.12V.0066
4"	○ 161.15.12E.0066	○ 161.15.12H.0066	○ 161.15.12S.0066	○ 161.15.12V.0066

matt finish: at 6th position use a digit 2 in the ident number

leak.-bv, betw. fl. air/spr. (NC), with rinsing-connection, inch OD (66IZ)

DN	304 EPDM polished Ident number	304 HNBR polished Ident number	304 MVQ polished Ident number	304 FPM polished Ident number
1"	○ 162.08.11E.0066	○ 162.08.11H.0066	○ 162.08.11S.0066	○ 162.08.11V.0066
1 1/2"	○ 162.10.11E.0066	○ 162.10.11H.0066	○ 162.10.11S.0066	○ 162.10.11V.0066
2"	○ 162.11.11E.0066	○ 162.11.11H.0066	○ 162.11.11S.0066	○ 162.11.11V.0066
2 1/2"	○ 162.12.11E.0066	○ 162.12.11H.0066	○ 162.12.11S.0066	○ 162.12.11V.0066
3"	○ 162.13.11E.0066	○ 162.13.11H.0066	○ 162.13.11S.0066	○ 162.13.11V.0066
4"	○ 162.15.11E.0066	○ 162.15.11H.0066	○ 162.15.11S.0066	○ 162.15.11V.0066

matt finish: at 6th position use a digit 2 in the ident number

leak.-bv, betw. fl. air/spr. (NC), with rinsing-connection, inch OD (66IZ)

DN	316 L EPDM polished Ident number	316 L HNBR polished Ident number	316 L MVQ polished Ident number	316 L FPM polished Ident number
1"	○ 162.08.12E.0066	○ 162.08.12H.0066	○ 162.08.12S.0066	○ 162.08.12V.0066
1 1/2"	○ 162.10.12E.0066	○ 162.10.12H.0066	○ 162.10.12S.0066	○ 162.10.12V.0066
2"	○ 162.11.12E.0066	○ 162.11.12H.0066	○ 162.11.12S.0066	○ 162.11.12V.0066
2 1/2"	○ 162.12.12E.0066	○ 162.12.12H.0066	○ 162.12.12S.0066	○ 162.12.12V.0066
3"	○ 162.13.12E.0066	○ 162.13.12H.0066	○ 162.13.12S.0066	○ 162.13.12V.0066
4"	○ 162.15.12E.0066	○ 162.15.12H.0066	○ 162.15.12S.0066	○ 162.15.12V.0066

matt finish: at 6th position use a digit 2 in the ident number

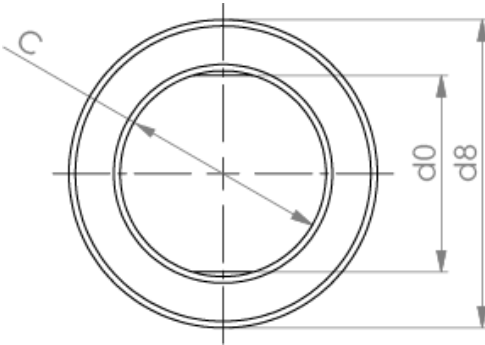


1.1 Butterfly Valves

1.1.5 BV • Spare parts

	Page
Gaskets for BV (676/676Z)	1
Seal sets for Leakage BV	2
Seal sets for Between Flanges BV	3
Disk for BV, DIN (607)	3
Disk for BV, DIN or inch, 9 or 11,5mm actuator connection (607Z)	5
Clip-on bush for BV	5

Gasket for BV, DIN (676) / Inch (676Z)



DN	d0	d8	c	weight (kg)
15	22	36	19	0,015
20	22	36	19	0,015
25	26	40	19.5	0,017
32	32	48	20	0,024
40	37	54	20.5	0,028
50	51	67	21	0,038
65	67	85	22	0,057
80	83	101	24	0,078
100	101	116	26	0,082
125	126	152	30	0,172
150	151	176	30	0,228
200	203	230	37	0,280
1"	22	36	19	0,015
1¼"	32	48	20	0,024
1½"	34	52	20	0,028
2"	51	67	21	0,038
2½"	61	79	22	0,045
3"	73	92	23.5	0,070
4"	101	116	26	0,082

DN	EPDM	MVQ	HNBR	FPM
	Ident number	Ident number	Ident number	Ident number
15	C821086E00002	C821086S00002	C821086HN0002	C821086V00002
20	C821086E00002	C821086S00002	C821086HN0002	C821086V00002
25	C821086E00000	C821086S00000	C821086HN0000	C821086V00000
32	C821096E00000	C821096S00000	C821096HN0000	C821096V00000
40	C821106E00000	C821106S00000	C821106HN0000	C821106V00000
50	C821116E00000	C821116S00000	C821116HN0000	C821116V00000
65	C821126E00000	C821126S00000	C821126HN0000	C821126V00000
80	C821146E00000	C821146S00000	C821146HN0000	C821146V00000
100	C821156E00000	C821156S00000	C821156HN0000	C821156V00000
125	C821166E00000	C821166S00000	C821166HN0000	C821166V00000
150	C821176E00000	C821176S00000	C821176HN0000	C821176V00000
200	C821186E00000	C821186S00000	C821186HN0000	C821186V00000
1"	C821086E00002	C821086S00002	C821086HN0002	C821086V00002
1¼"	C821096E00000	C821096S00000	C821096HN0000	C821096V00000
1½"	C821106E00002	C821106S00002	C821106HN0002	C821106V00002
2"	C821116E00000	C821116S00000	C821116HN0000	C821116V00000
2½"	C821126E00002	C821126S00002	C821126HN0002	C821126V00002
3"	C821136E00000	C821136S00000	C821136HN0000	C821136V00000
4"	C821156E00000	C821156S00000	C821156HN0000	C821156V00000

Seal set for Leakage BV DIN / Inch



DN	weight (kg)
25	-
32	-
40	-
50	-
65	-
80	-
100	-
1"	-
¼"	-
1¼"	-
2"	-
2½"	-
3"	-
4"	-

DN	EPDM Ident number	MVQ Ident number	HNBR Ident number	FPM Ident number
25	C269086E00172	C269086S00172	C269086HN0172	C269086V00172
32	C269096E00172	C269096S00172	C269096HN0172	C269096V00172
40	C269106E00172	C269106S00172	C269106HN0172	C269106V00172
50	C269116E00172	C269116S00172	C269116HN0172	C269116V00172
65	C269126E00172	C269126S00172	C269126HN0172	C269126V00172
80	C269146E00172	C269146S00172	C269146HN0172	C269146V00172
100	C269156E00172	C269156S00172	C269156HN0172	C269156V00172
1"	C269086E00175	C269086S00175	C269086HN0175	C269086V00175
¼"	C269096E00175	C269096S00175	C269096HN0175	C269096V00175
1¼"	C269106E00175	C269106S00175	C269106HN0175	C269106V00175
2"	C269116E00175	C269116S00175	C269116HN0175	C269116V00175
2½"	C269126E00175	C269126S00175	C269126HN0175	C269126V00175
3"	C269136E00175	C269136S00175	C269136HN0175	C269136V00175
4"	C269156E00175	C269156S00175	C269156HN0172	C269156V00175

Seal set for BV between flanges DIN



DN	weight (kg)
20	0,021
25	0,023
32	0,032
40	0,038
50	0,050
65	0,071
80	0,096
100	0,108
125	0,216
150	0,282
200	0,376

Seal set for BV between flanges O-form DIN/Inch



DN	weight (kg)
20	0,019
25	0,021
32	0,030
40	0,036
50	0,036
65	0,067
80	0,092
100	0,104
125	0,212
150	0,278
1"	0,021
1¼"	0,030
1½"	0,036
2"	0,036
2½"	0,067
3"	0,092
4"	0,104

Disk for BV DIN (607)



DN	d1	VK	weight (kg)
15-20	22.6	9.5	0,035
25	26	9.5	0,050
32	32	9.5	0,060
40	38	9.5	0,090
50	50	9.5	0,135
65	66	9.5	0,225
80	81	9.5	0,325
100	100	9.5	0,620
125	125	14	1,370
150	150	14	1,820
200	200	14	4,200



DN	EPDM Ident number	MVQ Ident number	HNBR Ident number	FPM Ident number
20	C269076E00168	C269076S00168	C269076HN0168	C269076V00168
25	C269086E00168	C269086S00168	C269086HN0168	C269086V00168
32	C269096E00168	C269096S00168	C269096HN0168	C269096V00168
40	C269106E00168	C269106S00168	C269106HN0168	C269106V00168
50	C269116E00168	C269116S00168	C269116HN0168	C269116V00168
65	C269126E00168	C269126S00168	C269126HN0168	C269126V00168
80	C269146E00168	C269146S00168	C269146HN0168	C269146V00168
100	C269156E00168	C269156S00168	C269156HN0168	C269156V00168
125	C269166E00168	C269166S00168	C269166HN0168	C269166V00168
150	C269176E00168	C269176S00168	C269176HN0168	C269176V00168
200	C269186E00168	C269186S00168	C269186HN0168	C269186V00168

DN	EPDM Ident number	MVQ Ident number	HNBR Ident number	FPM Ident number
20	C269076E00169	C269076S00169	C269076HN0169	C269076V00169
25	C269086E00169	C269086S00169	C269086HN0169	C269086V00169
32	C269096E00169	C269096S00169	C269096HN0169	C269096V00169
40	C269106E00169	C269106S00169	C269106HN0169	C269106V00169
50	C269116E00169	C269116S00169	C269116HN0169	C269116V00169
65	C269126E00169	C269126S00169	C269126HN0169	C269126V00169
80	C269146E00169	C269146S00169	C269146HN0169	C269146V00169
100	C269156E00169	C269156S00169	C269156HN0169	C269156V00169
125	C269166E00169	C269166S00169	C269166HN0169	C269166V00169
150	C269176E00169	C269176S00169	C269176HN0169	C269176V00169

1"	C269086E00170	C269086S00170	C269086HN0170	C269086V00170
1¼"	C269096E00170	C269096S00170	C269096HN0170	C269096V00170
1½"	C269106E00170	C269106S00170	C269106HN0170	C269106V00170
2"	C269116E00170	C269116S00170	C269116HN0170	C269116V00170
2½"	C269126E00170	C269126S00170	C269126HN0170	C269126V00170
3"	C269136E00170	C269136S00170	C269136HN0170	C269136V00170
4"	C269156E00170	C269156S00170	C269156HN0170	C269156V00170

DN	304 polished Ident number	316 L polished Ident number
15-20		C269081200100
25	C269081100010	C269081200010
32	C269091100010	C269091200010
40	C269101100010	C269101200010
50	C269111100010	C269111200010
65	C269121100010	C269121200010
80	C269141100010	C269141200010
100	C269151100010	C269151200010
125	C269161100010	C269161200010
150		C269171200010
200	C269181100010	C269181200010

Disk for BV DIN/Inch (607Z)



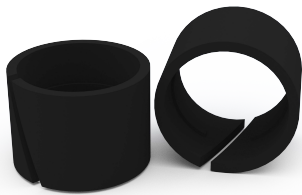
DN	d1	VK	weight (kg)
3"	72	11.5	0,285
80	81	11.5	0,325
100/4"	100	11.5	0,620

Disk for BV Inch (607Z)



DN	d1	VK	weight (kg)
1"	22.6	9.5	0,040
1¼"	32	9.5	0,060
1½"	35.4	9.5	0,085
2"	50	9.5	0,135
2½"	60.2	9.5	0,210
3"	72	9.5	0,285
4"	100	9.5	0,620

Clip-on Bushes for BV (2 pieces)



DN	D1	L1	weight (kg)
40 - 65	14	10	-
3" - 100	16	10	-

DN	316 L polished Ident number
3"	C269131200032
80	C269141200032
100/4"	C269151200032

DN	304 polished Ident number	316 L polished Ident number
1"	-	C269081200100
1¼"	C269091100010	C269091200010
1½"	-	C269101200100
2"	C269111100010	C269111200010
2½"	-	C269121200100
3"	C269131100010	C269131200010
4"	C269151100010	C269151200010

DN	plastic Ident number
40 - 65	C895106Y00516
3" - 100	C895136Y00516



1.1 Butterfly valves

1.1.6 Butterfly valves • Attachments

page

Technical Information: Revertive signal and control
 tops Technical Information: Positioner tops

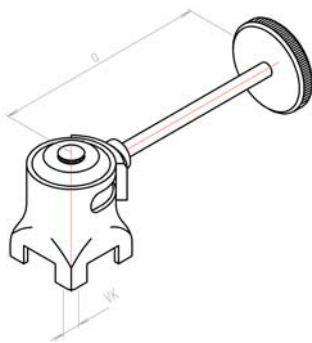
Handle for butterfly and ball valve (standard)	1
BV-handle, infinitely variable (668)	1
BV-handle, lockable (669)	1
BV-handle with limit switch (670)	1
BV-handle for proximity switch, horizontal fixing (671)	3
BV-handle for proximity switch, vertical fixing (671)	3
Pneumatic actuator, air/air for butterfly valves (677)	5
Pneumatic actuator, air/spring (NC) for butterfly valves (678)	5
Pneumatic actuator, spring/air (NO) for butterfly valves (678)	7
Control head for actuator A/	7
Revertive signal top	9
Actuator pneumatic air/air with top	9
ASI top for actuator A/S	11
Electrical actuator for butterfly valves (679)	11
Actuator with electric pneumatic adjuster	13
Pneumatic actuator, air/spring, with manual adj. mech. stop for butterfly valves (678E)	13
Pneumatic actuator, low height flap action, air/air for butterfly valves (680)	15
Holding device for butterfly and ball valves (681)	15
Signal contact arm (684)	15
Holding device for proximity switch (683A)	15
Holding device for limit switch (682)	17
Position indicator for actuators	17
Holding device for double sensor	17
Switch cam for double sensor	17
Inductive proximity double sensor, type NBN 3-F25-E8-V1	19
Limit switch with bolts (690)	19
Proximity switch, inductive type NBN 4-12 GM50-E2 (686)	19
Proximity switch, inductive type NBN 4-12 GM50-E2-V1 (686)	19
Proximity switch, inductive type NBB 2-12 GM50-E2 (686)	21
Proximity switch, inductive type NBB 2-12 GM50-E2-V1 (686)	21
Proximity switch, inductive type NBB 5-18 GM50-E2 (686)	21
Proximity switch, inductive type NBB 5-18 GM50-E2-V1 (686)	21
Plug, straight with terminal	23
Plug, angled, with cord	23
Plug, straight, with cord	23
Plug, angled, with cord	23
3/2 way solenoid valve with base	25

handle for butterfly and ball valve (standard) (667)



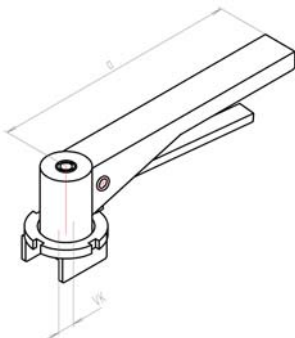
DN	DN	a	squarebare	weight (kg)
15	15-65	132	9	0,400
20	15-65	132	9	0,400
25	15-65	132	9	0,400
32	15-65	132	9	0,400
40	15-65	132	9	0,400
50	15-65	132	9	0,400
65	15-65	132	9	0,400
80	3"-100	165	9	0,850
100	3"-100	165	9	0,850
125	125-150	216	14	1,830
150	125-150	216	14	1,830
200	200	276	14	1,910
MIN	3"-100	165	11	0,850

bv-handle, infinitely variable (668)



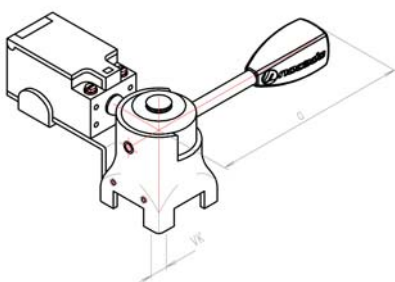
DN	a	squarebare	weight (kg)
15 - 65	126	9	0,400
3" - 100	145	9	0,850
125 - 200	233	14	1,830
	MIN	MIN	
3" - 100	145	11	0,850

bv-handle, lockable (669)



DN	a	squarebare	weight (kg)
15-65	145	9	0,290
3"-100	145	9	0,290

bv-handle with limit switch (670)



DN	a	squarebare	weight (kg)
15-32	132	9	0,620
40-65	132	9	0,630
3"-100	165	9	1,060
125-150	216	14	2,040
200	276	14	2,120
3"-100	165	11	1,060

handle for butterfly and ball valve (standard) (667)

DN	304 brushed, bv Ident number	304 brushed, w. bore Ident number	304 brushed, ball - v. Ident number
15	● 265.08.131.0000	● 265.08.131.0001	
20	● 265.08.131.0000	● 265.08.131.0001	
25	● 265.08.131.0000	● 265.08.131.0001	● 265.08.131.0000
32	● 265.08.131.0000	● 265.08.131.0001	● 265.08.131.0000
40	● 265.08.131.0000	● 265.08.131.0001	● 265.08.131.0000
50	● 265.08.131.0000	● 265.08.131.0001	● 265.08.131.0000
65	● 265.08.131.0000	● 265.08.131.0001	● 265.08.131.0000
80	● 265.13.131.0000	● 265.13.131.0001	● 265.13.131.0053
100	● 265.13.131.0000	● 265.13.131.0001	● 265.13.131.0053
125	● 265.16.131.0000	○ 265.16.131.0001	
150	● 265.16.131.0000	○ 265.16.131.0001	
200	● 265.18.131.0000	○ 265.18.131.0001	
MIN	● 265.13.131.0053	○ 265.13.131.0054	

bv-handle, infinitely variable (668)

DN	304 brushed Ident number
15 - 65	○ 265.08.313.0002
3" - 100	○ 265.13.313.0002
125 - 200	○ 265.16.313.0002
3" - 100	○ 265.13.313.0071

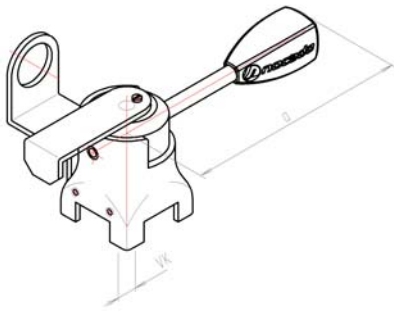
bv-handle, lockable (669)

DN	304 brushed Ident number
15-65	○ 265.08.310.0003
3"-100	○ 265.13.310.0003

bv-handle with limit switch (670)

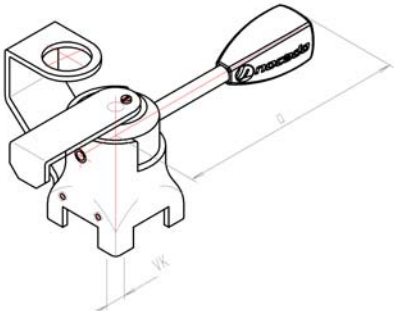
DN	304 brushed, pos. o/c Ident number	304 brushed, pos. open Ident number	304 brushed, pos. closed Ident number
15-32	○ 265.08.131.0004	○ 265.08.131.0005	○ 265.08.131.0006
40-65	○ 265.08.131.0004	○ 265.08.131.0005	○ 265.08.131.0006
3"-100	○ 265.13.131.0004	○ 265.13.131.0005	○ 265.13.131.0006
125-150	○ 265.16.131.0004	○ 265.16.131.0005	○ 265.16.131.0006
200	○ 265.18.131.0004	○ 265.18.131.0005	○ 265.18.131.0006
3"-100	○ 265.13.131.0072	○ 265.13.131.0073	○ 265.13.131.0074

bv-handle for prox. switch, horizontal fixing (671)



DN	a	squarebare	weight (kg)
15-32	132	9	0,620
40-65	132	9	0,630
3"-100	165	9	1,060
125-150	216	14	2,040
200	276	14	2,120
3"-100	165	11	1,060

bv-handle for prox. switch, vertical fixing (671)



DN	a	squarebare	weight (kg)
15-32	132	9	0,470
40-65	132	9	0,480
3"-100	165	9	0,910
125-150	216	14	1,890
200	276	14	1,970
3"-100	165	11	0,910

Rohr nach DIN 11850 Reihe 1

DN	304 brushed, 12mm, o/c		304 brushed, 12mm, open		304 brushed, 12mm, open		304 brushed, 18mm, o/c	
	Ident number	p	Ident number		Ident number		Ident number	
15-32	○ 265.08.131.0141		○ 265.08.131.0142		○ 265.08.131.0143		○ 265.08.131.0147	
40-65	○ 265.08.131.0141		○ 265.08.131.0142		○ 265.08.131.0143		○ 265.08.131.0147	
3"-100	○ 265.13.131.0141		○ 265.13.131.0142		○ 265.13.131.0143		○ 265.13.131.0147	
125-150	○ 265.16.131.0141		○ 265.16.131.0142		○ 265.16.131.0143		○ 265.16.131.0147	
200	○ 265.18.131.0141		○ 265.18.131.0142		○ 265.18.131.0143		○ 265.18.131.0147	
3"-100	○ 265.13.131.0144		○ 265.13.131.0145		○ 265.13.131.0146		○ 265.13.131.0150	

Rohr nach DIN 11850 Reihe 2

DN	304 brushed, 18mm, open		304 brushed, 18mm, open	
	Ident number		Ident number	
15-32	○ 265.08.131.0148		○ 265.08.131.0149	
40-65	○ 265.08.131.0148		○ 265.08.131.0149	
3"-100	○ 265.13.131.0148		○ 265.13.131.0149	
125-150	○ 265.16.131.0148		○ 265.16.131.0149	
200	○ 265.18.131.0148		○ 265.18.131.0149	
3"-100	○ 265.13.131.0151		○ 265.13.131.0152	

Rohr nach DIN 11850 Reihe 2

DN	304 brushed, 12mm, o/c		304 brushed, 12mm, open		304 brushed, 12mm, open		304 brushed, 18mm, o/c	
	Ident number		Ident number		Ident number		Ident number	
15-32	○ 265.08.131.0153		○ 265.08.131.0154		○ 265.08.131.0155		○ 265.08.131.0159	
40-65	○ 265.08.131.0153		○ 265.08.131.0154		○ 265.08.131.0155		○ 265.08.131.0159	
3"-100	○ 265.13.131.0153		○ 265.13.131.0154		○ 265.13.131.0155		○ 265.13.131.0159	
125-150	○ 265.16.131.0153		○ 265.16.131.0154		○ 265.16.131.0155		○ 265.16.131.0159	
200	○ 265.18.131.0153		○ 265.18.131.0154		○ 265.18.131.0155		○ 265.18.131.0159	
3"-100	○ 265.13.131.0156		○ 265.13.131.0157		○ 265.13.131.0158		○ 265.13.131.0162	

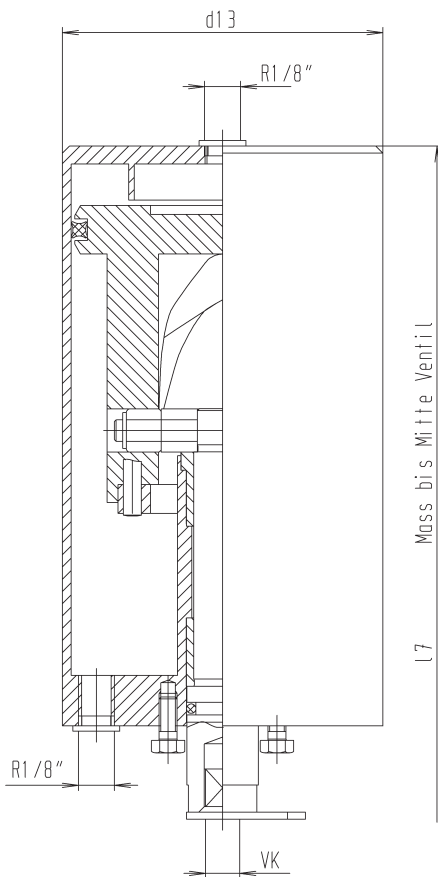
o/c = open/closed

Rohr nach DIN 11850 Reihe 2

DN	304 brushed, 18mm, open		304 brushed, 18mm, open	
	Ident number		Ident number	
15-32	○ 265.08.131.0160		○ 265.08.131.0161	
40-65	○ 265.08.131.0160		○ 265.08.131.0161	
3"-100	○ 265.13.131.0160		○ 265.13.131.0161	
125-150	○ 265.16.131.0160		○ 265.16.131.0161	
200	○ 265.18.131.0160		○ 265.18.131.0161	
3"-100	○ 265.13.131.0163		○ 265.13.131.0164	

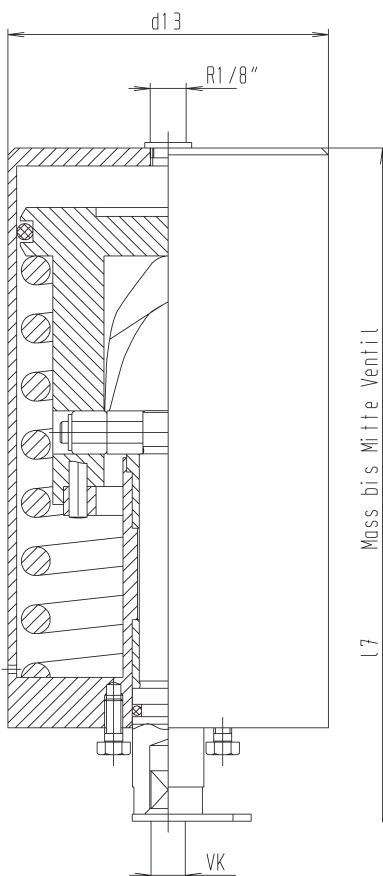
o/c = open/closed

pneumatic actuator, air/air for butterfly valves (677)



DN	d13	I7	squarebare	weight (kg)
15	89	231	9.5	2,480
20	89	231	9.5	2,480
25	89	231	9.5	2,480
32	89	234	9.5	2,480
40	89	236	9.5	2,480
50	89	242	9.5	2,480
65	89	251	9.5	2,480
80	89	260	9.5	2,480
100	89	270	9.5	2,480
125	133	369	14	7,200
150	133	384	14	7,200
200	133	428	14	7,200

pneumatic actuator, air/spring (NC) for butterfly valves (678)



DN	d13	I7	squarebare	weight (kg)
15-25	89	231	9.5	3,130
32	89	234	9.5	3,130
40	89	236	9.5	3,130
50	89	242	9.5	3,130
65	89	251	9.5	3,130
75/3"	89	260	9.5	3,130
80	89	260	9.5	3,130
100	89	270	9.5	3,130
125	133	369	14	9,310
150	133	384	14	9,310
200	133	428	14	9,310
75/3"-80	108	291	11.5	4,750
100	108	301	11.5	4,750

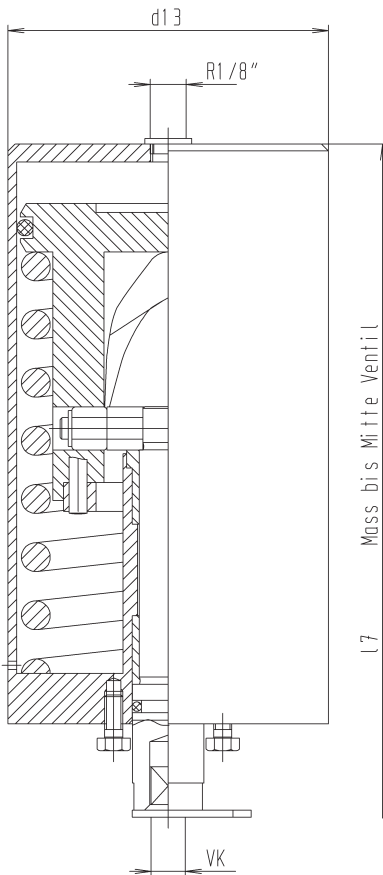
pneumatic actuator, air/air for butterfly valves (677)

DN	304 brushed Ident number
15	○ 165.08.310.0000
20	○ 165.08.310.0000
25	○ 165.08.310.0000
32	○ 165.08.310.0000
40	○ 165.08.310.0000
50	○ 165.08.310.0000
65	○ 165.08.310.0000
80	○ 165.08.310.0000
100	○ 165.08.310.0000
125	○ 165.16.310.0000
150	○ 165.16.310.0000
200	○ 165.16.310.0000

pneumatic actuator, air/spring (NC) for butterfly valves (678)

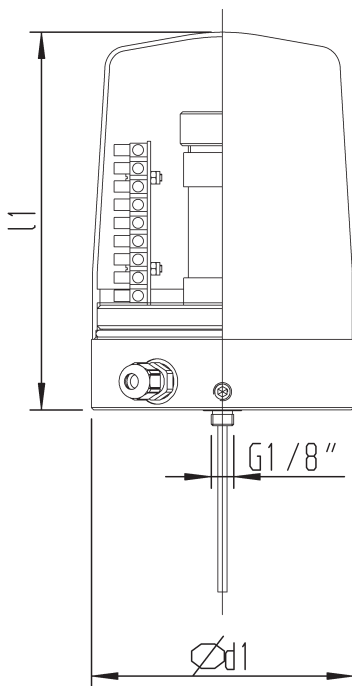
DN	304 brushed Ident number
15-25	● 165.08.310.0003
32	● 165.08.310.0003
40	● 165.08.310.0003
50	● 165.08.310.0003
65	● 165.08.310.0003
75/3"	● 165.08.310.0003
80	● 165.08.310.0003
100	● 165.08.310.0003
125	● 165.16.310.0003
150	● 165.16.310.0003
200	● 165.16.310.0003
75/3"-80	● 165.14.310.0004
100	● 165.14.310.0004

pneumatic actuator, spring/air (NO) for butterfly valves (678)



DN	d13	l7	squarebare	weight (kg)
15-25	89	231	9.5	3,130
32	89	234	9.5	3,130
40	89	236	9.5	3,130
50	89	242	9.5	3,130
65	89	251	9.5	3,130
75/3"-80	89	260	9.5	3,130
100	89	270	9.5	3,130
125	133	369	14	9,310
150	133	384	14	9,310
200	133	428	14	9,310
75/3"-80	108	291	11.5	4,750
100	108	301	11.5	4,750

controlhead for actuator A/S



DN	II	weight (kg)
25 - 200	166	-

pneumatic actuator, spring/air (NO) for butterfly valves (678)

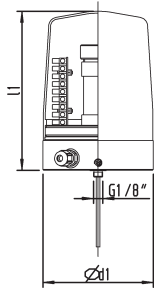
304 EPDM polished	
DN	Ident number
15-25	○ 165.08.310.0010
32	○ 165.08.310.0010
40	○ 165.08.310.0010
50	○ 165.08.310.0010
65	○ 165.08.310.0010
75/3"-80	○ 165.08.310.0010
100	○ 165.08.310.0010
125	○ 165.16.310.0010
150	○ 165.16.310.0010
200	○ 165.16.310.0010
75/3"-80	○ 165.14.310.0010
100	○ 165.14.310.0010

controlhead for actuator A/S

DN	metal cap, terminal block Ident number	plastic cap, terminal block Ident number	metal cap with plug Ident number	plastic cap with plug Ident number
25 - 200	○ 165.08.6y0.0050	○ 165.08.6y0.0049	○ 165.08.6y0.0051	○ 165.08.6y0.0052

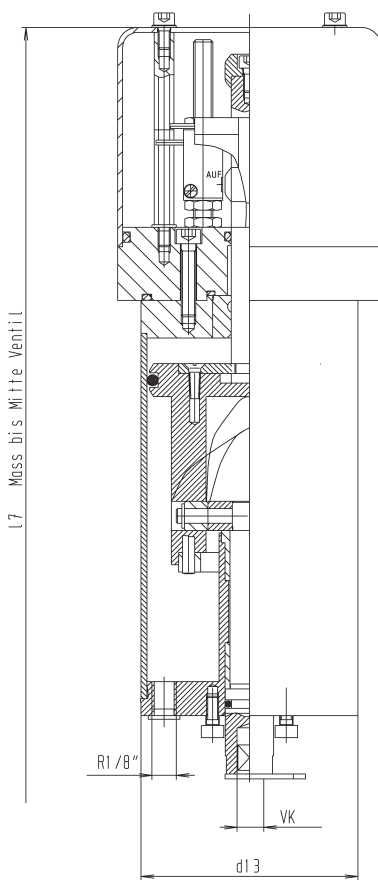
2 x prox.sw, 1 x m-vafve, 24 VDC, version air/air on request

revertive signal top



DN	H	weight (kg)
25 - 200	166	-

actuator pneumatic air/air with top



DN	d13	H	squarebare	weight (kg)
25	89	353	9.5	-
32	89	356	9.5	-
40	89	358	9.5	-
50	89	364	9.5	-
65	89	373	9.5	-
75/3"-80	89	382	9.5	-
100	89	392	9.5	-
125	133	521	14	-
150	133	536	14	-
200	133	580	14	-
75/3"-80	108	443	11.5	-
100	108	453	11.5	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	metal cap, terminal block Ident number	plastic cap, terminal block Ident number	metal cap with plug Ident number	plastic cap with plug Ident number
25 - 200	○ 165.08.6y0.0057	○ 165.08.6y0.0058	○ 165.08.6y0.0059	○ 165.08.6y0.0060

2 x prox.sw, 24 VDC, version air/air on request

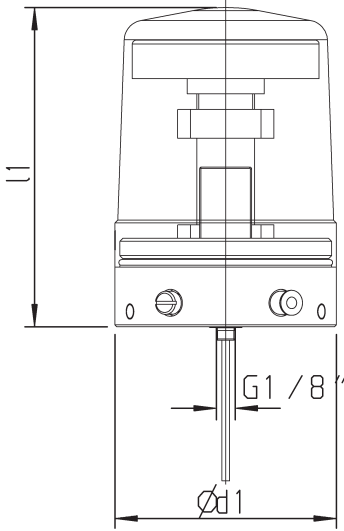
actuator pneumatic air/air with top

DN	2 x prox.sw., 2 x m-valve, 24 VDC		2 x prox.-switch, 24 VDC		2 x m-switch, 24 VDC	
	Ident number	Ident number	Ident number	Ident number	Ident number	Ident number
25	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027		
32	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027		
40	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027		
50	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027		
65	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027		
75/3"-80	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027		
100	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027		
125	○ 165.16.310.0022	○ 165.16.310.0023	○ 165.16.310.0025	○ 165.16.310.0027		
150	○ 165.16.310.0022	○ 165.16.310.0023	○ 165.16.310.0025	○ 165.16.310.0027		
200	○ 165.16.310.0022	○ 165.16.310.0023	○ 165.16.310.0025	○ 165.16.310.0027		
75/3"-80	○ 165.14.310.0022	○ 165.14.310.0023	○ 165.14.310.0025	○ 165.14.310.0027		
100	○ 165.14.310.0022	○ 165.14.310.0023	○ 165.14.310.0025	○ 165.14.310.0027		

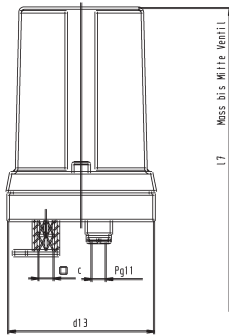
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ASI top for actuator A/S

DN	dI	II	weight (kg)
25 - 200	115	166	-



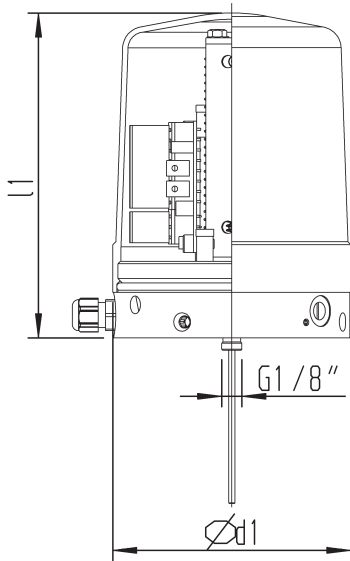
electrical actuator for butterfly valves (679)



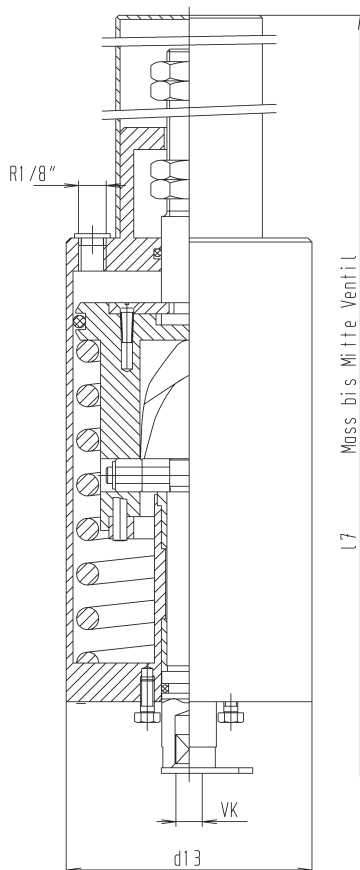
DN	d13	I7/24 V DC	I7/230 V AC	squarebare	weight (kg)
25	116	238	279	9,5	-
32	116	242	282	9,5	-
40	116	244	284	9,5	-
50	116	250	290	9,5	-
65	116	259	299	9,5	-
75/3"-80"	116	268	308	9,5	-
100	116	270	318	9,5	-
125	149	416	416	14	-
150	149	460	460	14	-
200	149	-	-	14	-

actuator with electric pneum. adjster

DN	dI	II	weight (kg)
25 - 100	114	157	-
125 - 200	114	250	-



pneu. actuator, air/spring with man. adj. mech.stop for butterfly valves (678E)



DN	d13	l7	squarebare	weight (kg)
25	89	386	9.5	4,300
32	89	389	9.5	4,300
40	89	391	9.5	4,300
50	89	397	9.5	4,300
65	89	406	9.5	4,300
75/3"-80	89	415	9.5	4,300
100	89	425	9.5	4,300
125	133	576	14	10,800
150	133	591	14	10,800
200	133	635	14	10,800
75/3"-80	108	469	11.5	6,100
100	108	479	11.5	6,100

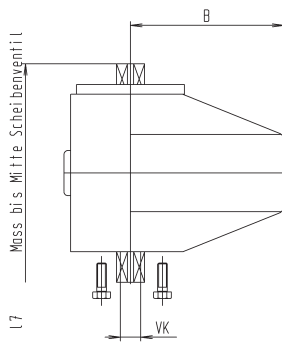
actuator with electric pneum. adjuster

DN	must value 4-20mA, reply 0,2-10V Ident number	must value 4-20mA, reply 4-20mA Ident number
25 - 100	○ 165.08.6Y0.0044	○ 165.08.6Y0.0046
125 - 200	○ 165.16.6Y0.0044	○ 165.16.6Y0.0046

pneu. actuator, air/spring with man. adj. mech.stop for butterfly valves (678E)

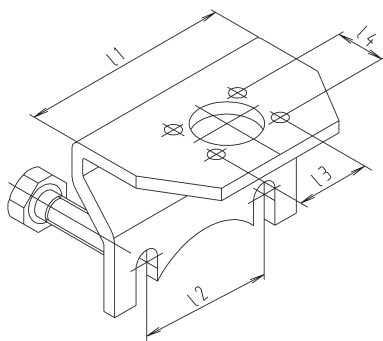
DN	304 brushed Ident number
25	○ 165.08.310.0008
32	○ 165.08.310.0008
40	○ 165.08.310.0008
50	○ 165.08.310.0008
65	○ 165.08.310.0008
75/3"-80	○ 165.08.310.0008
100	○ 165.08.310.0008
125	○ 165.16.310.0008
150	○ 165.16.310.0008
200	○ 165.16.310.0008
75/3"-80	○ 165.14.310.0008
100	○ 165.14.310.0008

pneu. actuator, low height flap action, air/air for butterfly valves (680)



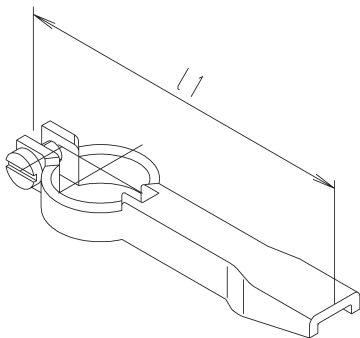
DN	B	I7	squarebare	type	weight (kg)
25	78	153	9.5	050 - 100	1,300
32	78	156	9.5	050 - 100	1,300
40	78	158	9.5	050 - 100	1,300
50	78	165	9.5	050 - 100	1,300
65	78	174	9.5	050 - 100	1,300
75/3"-80	78	181	9.5	050 - 100	1,300
100	78	192	9.5	050 - 100	1,300
125	114	254	14	080 - 100	3,200
150	114	269	14	080 - 100	3,200
200	114	-	14	080 - 100	3,200

holding device for butterfly and ball valves (681)



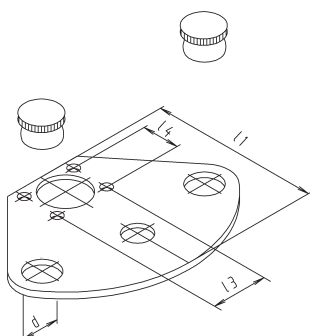
DN	l1	l2	l3	l4	weight (kg)
15	79.5	51.5	30.3	17.6	0,220
20	79.5	51.5	30.3	17.6	0,220
25	79.5	51.5	30.3	17.6	0,220
32	83	55	30.3	17.6	0,240
40	86	58	30.3	17.6	0,240
50	95.5	67.5	30.3	17.6	0,270
65	107.5	79.5	30.3	17.6	0,310
80	118	90	30.3	17.6	0,380
100	132	104	30.3	17.6	0,410
125	118	90	44	25.4	0,460
150	132	105	44	25.4	0,520
200	132	105	44	25.4	0,520

signal contact arm (684)



DN	l1	weight (kg)
15-100	91	0,030
125-200	117	0,040
3"-100	100	0,030

holding device for proximity switch (683A)



DN	for actuator	l1	l2	l3	l4	weight (kg)
15-100	L/F	103	30.3	17.6	17.6	0,140
15-100	L/L	103	30.3	17.6	17.6	0,140
125-200	L/F	130	44	25.4	25.4	0,180
3"-100	L/F	112	30.3	17.6	17.6	0,140

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 EPDM polished Ident number
25	○ 896.08.6X0.0001
32	○ 896.08.6X0.0001
40	○ 896.08.6X0.0001
50	○ 896.08.6X0.0001
65	○ 896.08.6X0.0001
75/3"-80	○ 896.08.6X0.0001
100	○ 896.08.6X0.0001
125	○ 896.16.6X0.0001
150	○ 896.16.6X0.0001
200	○ 896.16.6X0.0001

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished, sv Ident number	304 matt, sv Ident number	304 polished, ball-v. Ident number	304 matt, ball-v. Ident number
15	● 265.08.111.0010	● 265.08.211.0010	● 265.09.111.0010	● 265.09.211.0010
20	● 265.08.111.0010	● 265.08.211.0010	● 265.09.111.0010	● 265.09.211.0010
25	● 265.08.111.0010	● 265.08.211.0010	● 265.09.111.0010	● 265.09.211.0010
32	● 265.09.111.0010	● 265.09.211.0010	● 265.10.111.0010	● 265.10.211.0010
40	● 265.10.111.0010	● 265.10.211.0010	● 265.11.111.0010	● 265.11.211.0010
50	● 265.11.111.0010	● 265.11.211.0010	● 265.12.111.0010	● 265.12.211.0010
65	● 265.12.111.0010	● 265.12.211.0010	● 265.14.111.0010	● 265.14.211.0010
80	● 265.14.111.0010	● 265.14.211.0010	● 265.15.111.0010	● 265.15.211.0010
100	● 265.15.111.0010	● 265.15.211.0010	● 265.16.111.0010	○ 265.16.211.0010
125	● 265.16.111.0010	○ 265.16.211.0010	-	-
150	● 265.17.111.0010	○ 265.17.211.0010	-	-
200	● 265.18.111.0010	● 265.18.211.0010	-	-

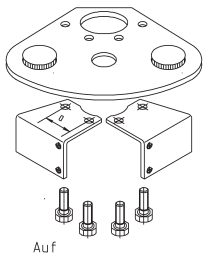
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number
15-100	● 265.08.110.0015	● 265.08.210.0015
125-200	● 265.16.110.0015	● 265.16.210.0015
3"-100	● 265.14.110.0015	○ 265.14.210.0015

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

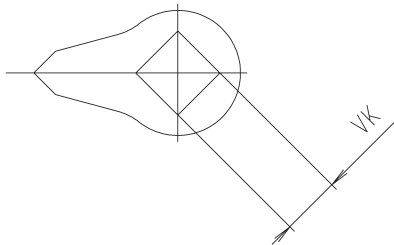
DN	304 polished, d=18mm Ident number	Ident number	Ident number	Ident number
15-100	● 265.08.11Y.0094	● 265.08.11Y.0107	● 265.08.21Y.0094	● 265.08.21Y.0107
15-100	○ 265.08.11Y.0095	○ 265.08.11Y.0108	● 265.08.21Y.0095	○ 265.08.21Y.0108
125-200	○ 265.16.11Y.0094	● 265.16.11Y.0107	○ 265.16.21Y.0094	○ 265.16.21Y.0107
3"-100	● 265.14.11Y.0094	○ 265.14.11Y.0107	○ 265.14.21Y.0094	○ 265.14.21Y.0107

holding device for limit switch (682)



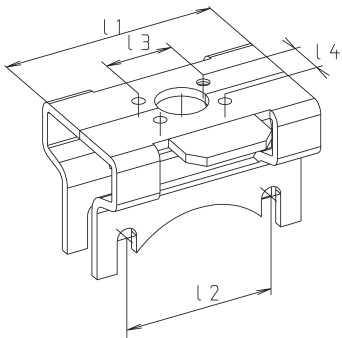
DN	VK	weight (kg)
15-100	9.5	0,190
125-200	14	0,250
3"-100	11.5	0,190

position indicator for actuators



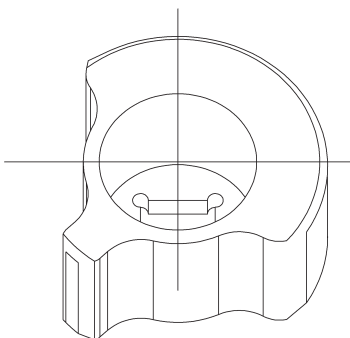
DN	VK	weight (kg)
15-100	9,5	-
125-200	14	-
3"-100	11,5	-

holding device for double sensor



DN	l1	l2	l3	l4	weight (kg)
25	79.5	51.5	30.3	17.6	-
32	83	55	30.3	17.6	-
40	86	58	30.3	17.6	-
50	95.5	67.5	30.3	17.6	-
65	107.5	79.5	30.3	17.6	-
75/3"	118	90	30.3	17.6	-
80	118	90	30.3	17.6	-
100	132	104	30.3	17.6	-

switch cam for double sensor



DN	VK	weight (kg)
25-100	9.5	-
3"-100	11.5	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished, open/cl. Ident number	304 polished, open Ident number	304 polished, closed Ident number
15-100	○ 165.08.11Y.0039	○ 165.08.11Y.0040	○ 165.08.11Y.0041
125-200	○ 165.16.11Y.0039	○ 165.16.11Y.0040	○ 165.16.11Y.0041
3"-100	○ 165.13.11Y.0039	○ 165.13.11Y.0040	○ 165.13.11Y.0041

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 Ident number
15-100	○ 265.08.310.0016
125-200	○ 265.16.310.0016
3"-100	○ 265.14.310.0016

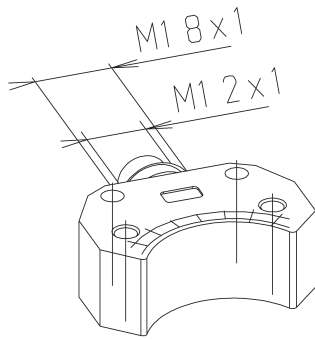
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number
25	○ 265.08.111.0135
32	○ 265.09.111.0135
40	○ 265.10.111.0135
50	○ 265.11.111.0135
65	○ 265.12.111.0135
75/3"	○ 265.13.111.0135
80	○ 265.14.111.0135
100	○ 265.15.111.0135

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

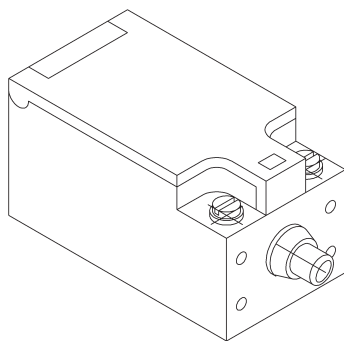
DN	POM Ident number
25-100	○ 265.08.6Y1.0171
3"-100	○ 265.13.6Y1.0171

inductive proximity double sensor, type NBN 3-F25-E8-VI



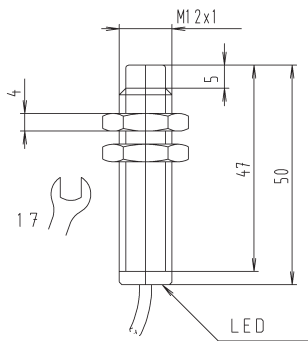
DN	type	weight (kg)
25-100	NBN3-F25-E8-VI	-
25-100	NCN3-F25-N4-VI	-

limit switch with bolts (690)



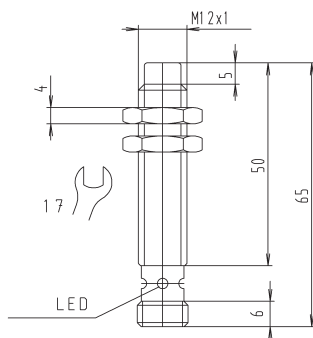
DN	type	weight (kg)
25-200	protection class : IP 65	0,040
-	switchsystem: jump circuit	-
-	forced closing contact	-
-	nominal voltage U_i : 500V, 25-60 HZ	-
-	switching range I_e : 2,5 A	-
-	U_e : 380 V	-
-	short circuit protection : 10 A (slow blow)	-

proximity switch, inductive type NBN 4-I2 GM50-E2 (686)



DN	techn. Data	weight (kg)
25-200	version M12x1	-
-	sn = 4 mm, not flush	-
-	U_b = 10 - 30 VDC	-
-	operating current 0...200mA	-
-	PNP / normally open contact	-
-	housing MS nickelized	-
-	LED - indicator yellow	-
-	cable 2m, PVC	-

proximity switch, inductive type NBN 4-I2 GM50-E2-VI (686)



DN	techn. Data	weight (kg)
25-200	version M12x1	-
-	sn = 2 mm, flush	-
-	U_b = 10 - 30 VDC	-
-	operating current 0...200mA	-
-	PNP / normally open contact	-
-	housing MS - nickelized	-
-	LED - indicator yellow	-
-	with plug connection M12 x 1	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	Ident number
25-100	○ 896.00.690.0063
25-100	○ 896.00.690.0064

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	plastic Ident number
25-200	○ 899.00.6X1.0000
-	-

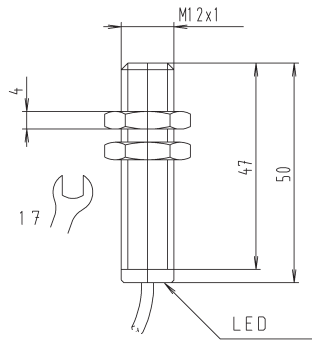
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	MS nickelized Ident number
25-200	○ 899.12.6X0.0162
-	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

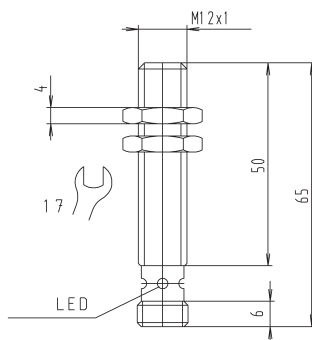
DN	MS nickelized Ident number
25-200	○ 899.12.6X0.0163
-	-

proximity switch, inductive type NBB 2-12 GM50-E2 (686)



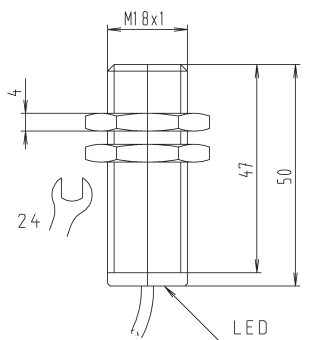
DN	techn. Data	weight (kg)
25-200	version M12x1	-
-	sn = 4 mm, not flush	-
-	Ub = 10 - 30 VDC	-
-	operating current	-
-	PNP / normally open contact	-
-	housing MS - nickelized	-
-	LED - indicator yellow	-
-	cable 2m PVC	-
-	-	-
-	-	-
-	-	-

proximity switch, inductive type NBB 2-12 GM50-E2-VI (686)



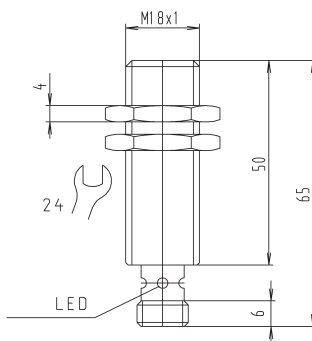
DN	techn. Data	Infodatei	weight (kg)
25-200	version M12 x 1	Info	-
-	sn = 2 mm, flush	-	-
-	Ub = 10 - 30 VDC	-	-
-	operating current 0...200mA	-	-
-	PNP / normally open contact	-	-
-	housing MS - nickelized	-	-
-	LED - indicator yellow	-	-
-	with plug connection M 12 x1	-	-
-	-	-	-
-	-	-	-
-	-	-	-

proximity switch, inductive type NBB 5-18 GM50-E2 (686)



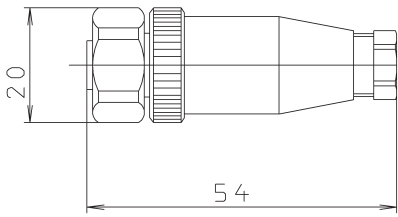
DN	techn. Data	weight (kg)
25-200	version M18 x 1	-
-	sn = 5 mm, flush	-
-	Ub = 10 - 30 VDC	-
-	operating current 0...200mA	-
-	PNP / normally open contact	-
-	housing MS - nickelized	-
-	LED - indicator yellow	-
-	cable 2m PVC	-
-	-	-
-	-	-
-	-	-

proximity switch, inductive type NBB 5-18 GM50-E2-VI(686)



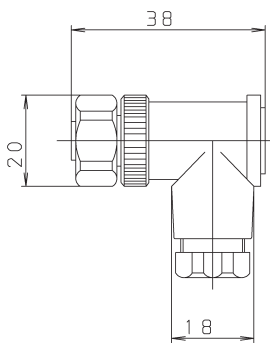
DN	techn. Data	weight (kg)
25-200	Bauform M 18 x 1	-
-	sn = 5 mm, flush	-
-	Ub = 10 - 30 VDC	-
-	operating current 0...200mA	-
-	PNP / normally open contact	-
-	housing MS - nickelized	-
-	LED - indicator yellow	-
-	with plug connection M12 x1	-
-	-	-
-	-	-
-	-	-

plug, straight with terminal



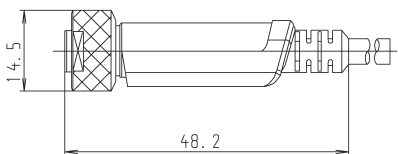
DN	techn. Data	weight (kg)
25-200	Typ VI-G	-

plug, angled, with cord



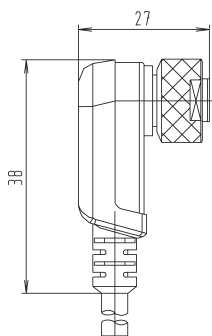
DN	techn. Data	weight (kg)
25-200	Typ VI-W	-

plug, straight, with cord



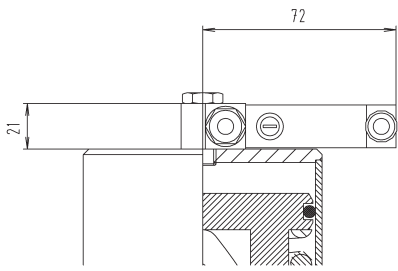
DN	type	cable length	weight (kg)
25-200	VI-G-2M-PVC	2 m	-
25-200	VI-G-5M-PVC	5 m	-
25-200	VI-G-10M-PVC	10 m	-

plug, angled, with cord



DN	type	cable length	weight (kg)
25-200	VI-W-2M-PVC	2 m	-
25-200	VI-W-5M-PVC	5 m	-
25-200	VI-W-10-PVC	10 m	-

3/2 way solenoid valve with base



DN	techn. Data	weight (kg)
25-200	24V AC/DC 2W	0,115

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	plastic Ident number
25-200	o 896.00.6Y0.0020

1.2 Ball valves

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1.2 Ball valves

1.2.1 Ball valves

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Technical Information: Ball valve

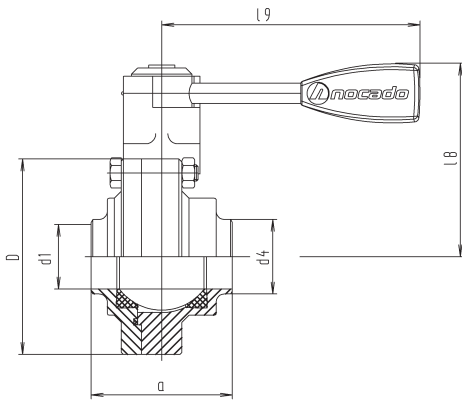
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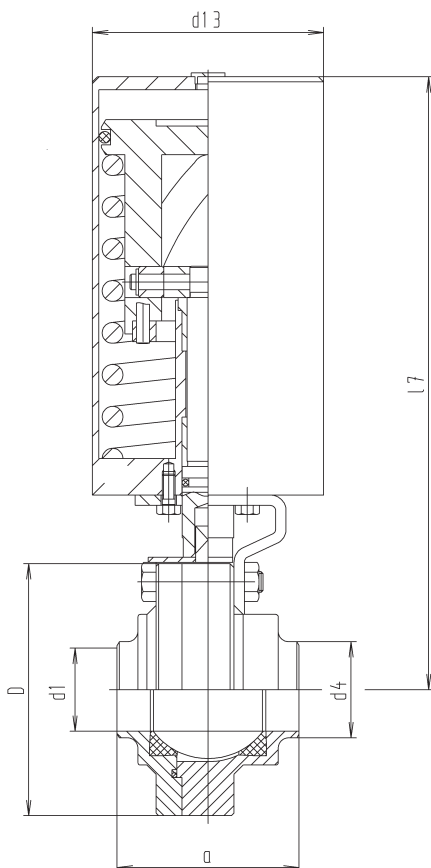
Back

ball valve, weld ends, manually operated (welding bevel acc. DIN 11850) (822)



DN	a	d1	d4	D	l8	l9	weight (kg)
25	62	26	31	92	91	132	1,940
32	70	32	37	97	94	132	2,100
40	86	38	43	110	100	132	2,890
50	102	50	55	127	109	132	3,950
65	124	66	72	142	124	165	7,310
80	140	81	87	162	135	165	9,850
100	190	100	106	200	162	216	18,350

ball valve, weld ends, air/spring (NC) (855)



DN	a	d1	d4	d13	D	l7	weight (kg)
25	62	26	31	89	92	234	4,920
32	70	32	37	89	97	236	5,080
40	86	38	43	89	110	242	5,810
50	102	50	55	89	127	251	6,930
65	124	66	72	108	142	290	11,560
80	140	81	87	108	162	300	14,090
100	190	100	106	133	200	369	26,310

ball valve, weld ends, manually operated (welding bevel acc. DIN 11850) (822)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 161.08.11T.0211	● 161.08.21T.0211	● 161.08.12T.0211	● 161.08.22T.0211
32	● 161.09.11T.0211	● 161.09.21T.0211	● 161.09.12T.0211	● 161.09.22T.0211
40	● 161.10.11T.0211	● 161.10.21T.0211	● 161.10.12T.0211	● 161.10.22T.0211
50	● 161.11.11T.0211	● 161.11.21T.0211	● 161.11.12T.0211	● 161.11.22T.0211
65	○ 161.12.11T.0211	○ 161.12.21T.0211	○ 161.12.12T.0211	○ 161.12.22T.0211
80	○ 161.14.11T.0211	○ 161.14.21T.0211	○ 161.14.12T.0211	○ 161.14.22T.0211
100	○ 161.15.11T.0211	○ 161.15.21T.0211	○ 161.15.12T.0211	○ 161.15.22T.0211

sealing kit: PTFE/Viton FEP -coated

ball valve, weld ends, manually operated (welding bevel acc. DIN 11850) (822)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 161.08.11T.0220	○ 161.08.21T.0220	○ 161.08.12T.0220	○ 161.08.22T.0220
32	○ 161.09.11T.0220	○ 161.09.21T.0220	○ 161.09.12T.0220	○ 161.09.22T.0220
40	○ 161.10.11T.0220	○ 161.10.21T.0220	○ 161.10.12T.0220	○ 161.10.22T.0220
50	○ 161.11.11T.0220	○ 161.11.21T.0220	○ 161.11.12T.0220	○ 161.11.22T.0220
65	○ 161.12.11T.0220	○ 161.12.21T.0220	○ 161.12.12T.0220	○ 161.12.22T.0220
80	○ 161.14.11T.0220	○ 161.14.21T.0220	○ 161.14.12T.0220	○ 161.14.22T.0220
100	○ 161.15.11T.0220	○ 161.15.21T.0220	○ 161.15.12T.0220	○ 161.15.22T.0220

sealing kit: PTFE/Viton FEP -coated

ball valve, weld ends, air/spring (NC) (855)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 162.08.11T.0211	● 162.08.21T.0211	● 162.08.12T.0211	● 162.08.22T.0211
32	● 162.09.11T.0211	● 162.09.21T.0211	● 162.09.12T.0211	● 162.09.22T.0211
40	● 162.10.11T.0211	● 162.10.21T.0211	● 162.10.12T.0211	● 162.10.22T.0211
50	● 162.11.11T.0211	● 162.11.21T.0211	● 162.11.12T.0211	● 162.11.22T.0211
65	○ 162.12.11T.0211	○ 162.12.21T.0211	● 162.12.12T.0211	● 162.12.22T.0211
80	● 162.14.11T.0211	● 162.14.21T.0211	● 162.14.12T.0211	● 162.14.22T.0211
100	○ 162.15.11T.0211	○ 162.15.21T.0211	○ 162.15.12T.0211	○ 162.15.22T.0211

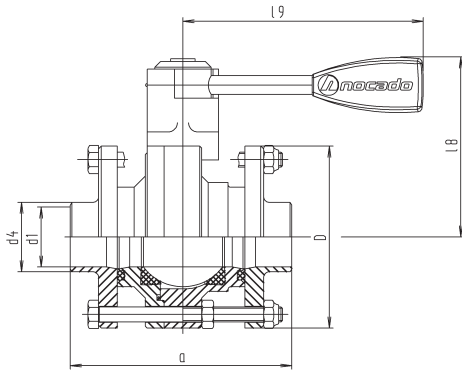
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, weld ends, air/spring (NC) (855)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 162.08.11T.0220	○ 162.08.21T.0220	○ 162.08.12T.0220	○ 162.08.22T.0220
32	○ 162.09.11T.0220	○ 162.09.21T.0220	○ 162.09.12T.0220	○ 162.09.22T.0220
40	○ 162.10.11T.0220	○ 162.10.21T.0220	○ 162.10.12T.0220	○ 162.10.22T.0220
50	○ 162.11.11T.0220	○ 162.11.21T.0220	○ 162.11.12T.0220	○ 162.11.22T.0220
65	○ 162.12.11T.0220	○ 162.12.21T.0220	○ 162.12.12T.0220	○ 162.12.22T.0220
80	○ 162.14.11T.0220	○ 162.14.21T.0220	○ 162.14.12T.0220	○ 162.14.22T.0220
100	○ 162.15.11T.0220	○ 162.15.21T.0220	○ 162.15.12T.0220	○ 162.15.22T.0220

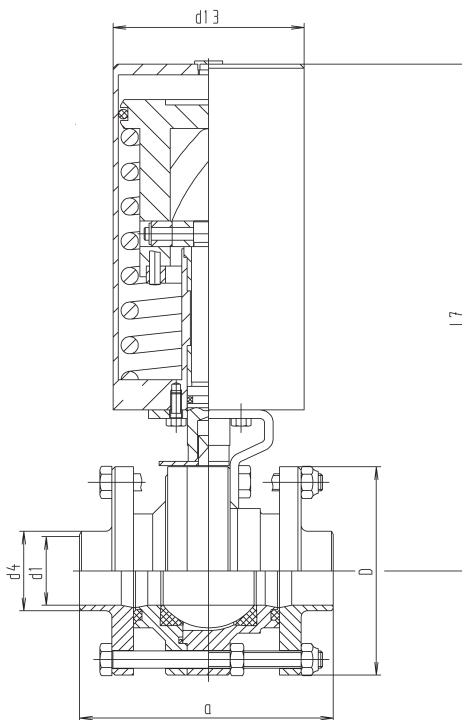
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, betw. flanges, DIN (860)



DN	a	D	d1	d4	l8	l9	weight (kg)
25	108	92	26	31	91	132	3,120
32	118	97	32	37	94	132	3,300
40	128	110	38	43	100	132	4,180
50	138	127	50	55	109	132	5,660
65	168	142	66	72	124	165	10,210
80	198	162	81	87	135	165	14,440
100	238	200	100	106	162	216	26,140

ball valve, betw. flanges, air/spring (NC), DIN (860)



DN	a	d1	d4	D	d13	l7	weight (kg)
25	108	26	31	92	89	234	6,100
32	118	32	37	97	89	236	6,280
40	128	38	43	110	89	242	7,160
50	138	50	55	127	89	251	8,640
65	168	66	72	142	108	290	14,460
80	198	81	87	162	108	300	18,690
100	238	100	106	200	133	369	34,100

ball valve, betw. flanges, DIN (860)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 161.08.11T.0216	● 161.08.21T.0216	● 161.08.12T.0216	● 161.08.22T.0216
32	● 161.09.11T.0216	● 161.09.21T.0216	● 161.09.12T.0216	● 161.09.22T.0216
40	● 161.10.11T.0216	● 161.10.21T.0216	● 161.10.12T.0216	● 161.10.22T.0216
50	● 161.11.11T.0216	● 161.11.21T.0216	● 161.11.12T.0216	● 161.11.22T.0216
65	○ 161.12.11T.0216	○ 161.12.21T.0216	○ 161.12.12T.0216	○ 161.12.22T.0216
80	○ 161.14.11T.0216	○ 161.14.21T.0216	○ 161.14.12T.0216	○ 161.14.22T.0216
100	○ 161.15.11T.0216	○ 161.15.21T.0216	○ 161.15.12T.0216	○ 161.15.22T.0216

sealing kit: PTFE/Viton FEP -coated

ball valve, betw. flanges, DIN (860)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 161.08.11T.0225	○ 161.08.21T.0225	○ 161.08.12T.0225	○ 161.08.22T.0225
32	○ 161.09.11T.0225	○ 161.09.21T.0225	○ 161.09.12T.0225	○ 161.09.22T.0225
40	○ 161.10.11T.0225	○ 161.10.21T.0225	○ 161.10.12T.0225	○ 161.10.22T.0225
50	○ 161.11.11T.0225	○ 161.11.21T.0225	○ 161.11.12T.0225	○ 161.11.22T.0225
65	○ 161.12.11T.0225	○ 161.12.21T.0225	○ 161.12.12T.0225	○ 161.12.22T.0225
80	○ 161.14.11T.0225	○ 161.14.21T.0225	○ 161.14.12T.0225	○ 161.14.22T.0225
100	○ 161.15.11T.0225	○ 161.15.21T.0225	○ 161.15.12T.0225	○ 161.15.22T.0225

sealing kit: PTFE/Viton FEP -coated

ball valve, betw. flanges, air/spring (NC), DIN (860)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 162.08.11T.0216	● 162.08.21T.0216	● 162.08.12T.0216	● 162.08.22T.0216
32	● 162.09.11T.0216	● 162.09.21T.0216	● 162.09.12T.0216	● 162.09.22T.0216
40	● 162.10.11T.0216	● 162.10.21T.0216	● 162.10.12T.0216	● 162.10.22T.0216
50	● 162.11.11T.0216	● 162.11.21T.0216	● 162.11.12T.0216	● 162.11.22T.0216
65	○ 162.12.11T.0216	○ 162.12.21T.0216	● 162.12.12T.0216	● 162.12.22T.0216
80	○ 162.14.11T.0216	○ 162.14.21T.0216	● 162.14.12T.0216	○ 162.14.22T.0216
100	○ 162.15.11T.0216	○ 162.15.21T.0216	○ 162.15.12T.0216	○ 162.15.22T.0216

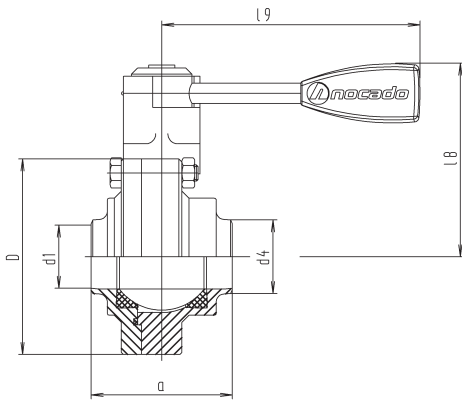
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, betw. flanges, air/spring (NC), DIN (860)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 162.08.11T.0225	○ 162.08.21T.0225	○ 162.08.12T.0225	○ 162.08.22T.0225
32	○ 162.09.11T.0225	○ 162.09.21T.0225	○ 162.09.12T.0225	○ 162.09.22T.0225
40	○ 162.10.11T.0225	○ 162.10.21T.0225	○ 162.10.12T.0225	○ 162.10.22T.0225
50	○ 162.11.11T.0225	○ 162.11.21T.0225	○ 162.11.12T.0225	○ 162.11.22T.0225
65	○ 162.12.11T.0225	○ 162.12.21T.0225	○ 162.12.12T.0225	○ 162.12.22T.0225
80	○ 162.14.11T.0225	○ 162.14.21T.0225	○ 162.14.12T.0225	○ 162.14.22T.0225
100	○ 162.15.11T.0225	○ 162.15.21T.0225	○ 162.15.12T.0225	○ 162.15.22T.0225

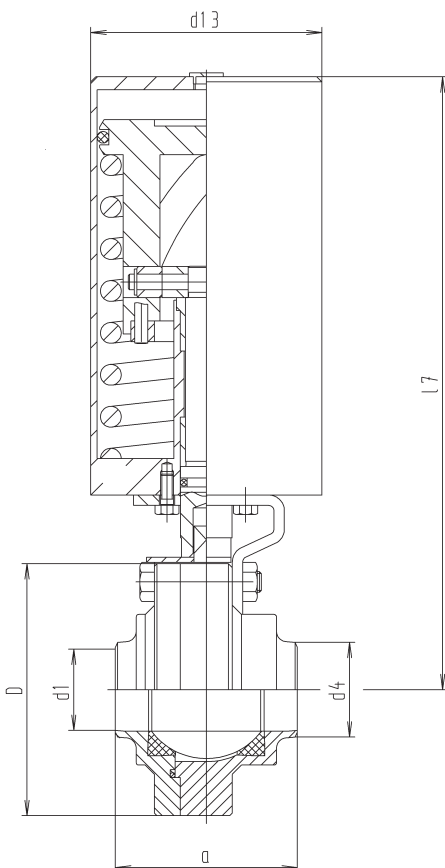
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, weld ends, inch OD (855Z)



DN	a	d1	d4	D	l8	l9	weight (kg)
1"	62	22.1	25.4	92	91	132	1,940
1½"	86	34.8	38.1	110	100	132	2,890
2"	102	47.5	50.8	127	109	132	3,950
2½"	124	60.2	63.5	142	124	165	7,310
3"	144	72.9	76.2	162	135	165	9,850
4"	190	97.4	101.6	200	162	216	18,350

ball valve, weld ends, air/spring (NC), inch OD (855Z)



DN	a	d1	d4	D	d13	l7	weight (kg)
1"	62	22.1	25.4	92	89	234	4,920
1½"	86	34.8	38.1	110	89	242	5,810
2"	102	47.5	50.8	127	89	251	6,930
2½"	124	60.2	63.5	142	108	290	11,560
3"	144	72.9	76.2	162	108	300	14,090
4"	190	97.4	101.6	200	133	369	26,310

ball valve, weld ends, inch OD (855Z)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	● 161.08.11T.0213	○ 161.08.21T.0213	● 161.08.12T.0213	○ 161.08.22T.0213
1½"	● 161.10.11T.0213	○ 161.10.21T.0213	● 161.10.12T.0213	○ 161.10.22T.0213
2"	● 161.11.11T.0213	○ 161.11.21T.0213	● 161.11.12T.0213	○ 161.11.22T.0213
2½"	○ 161.12.11T.0213	○ 161.12.21T.0213	○ 161.12.12T.0213	○ 161.12.22T.0213
3"	○ 161.13.11T.0213	○ 161.13.21T.0213	○ 161.13.12T.0213	○ 161.13.22T.0213
4"	○ 161.15.11T.0213	○ 161.15.21T.0213	○ 161.15.12T.0213	○ 161.15.22T.0213

sealing kit: PTFE/Viton FEP -coated

ball valve, weld ends, inch OD (855Z)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
1"	○ 161.08.11T.0222	○ 161.08.21T.0222	○ 161.08.12T.0222	○ 161.08.22T.0222
1½"	○ 161.10.11T.0222	○ 161.10.21T.0222	○ 161.10.12T.0222	○ 161.10.22T.0222
2"	○ 161.11.11T.0222	○ 161.11.21T.0222	○ 161.11.12T.0222	○ 161.11.22T.0222
2½"	○ 161.12.11T.0222	○ 161.12.21T.0222	○ 161.12.12T.0222	○ 161.12.22T.0222
3"	○ 161.13.11T.0222	○ 161.13.21T.0222	○ 161.13.12T.0222	○ 161.13.22T.0222
4"	○ 161.15.11T.0222	○ 161.15.21T.0222	○ 161.15.12T.0222	○ 161.15.22T.0222

sealing kit: PTFE/Viton FEP -coated

ball valve, weld ends, air/spring (NC), inch OD (855Z)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 162.08.11T.0213	○ 162.08.21T.0213	○ 162.08.12T.0213	○ 162.08.22T.0213
1½"	○ 162.10.11T.0213	○ 162.10.21T.0213	○ 162.10.12T.0213	○ 162.10.22T.0213
2"	○ 162.11.11T.0213	○ 162.11.21T.0213	○ 162.11.12T.0213	○ 162.11.22T.0213
2½"	○ 162.12.11T.0213	○ 162.12.21T.0213	● 162.12.12T.0213	○ 162.12.22T.0213
3"	○ 162.13.11T.0213	○ 162.13.21T.0213	○ 162.13.12T.0213	○ 162.13.22T.0213
4"	○ 162.15.11T.0213	○ 162.15.21T.0213	○ 162.15.12T.0213	○ 162.15.22T.0213

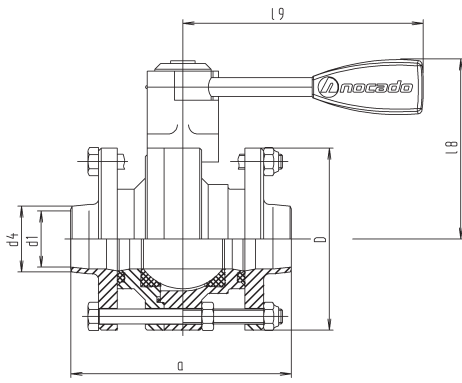
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, weld ends, air/spring (NC), inch OD (855Z)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
1"	○ 162.08.11T.0222	○ 162.08.21T.0222	○ 162.08.12T.0222	○ 162.08.22T.0222
1½"	○ 162.10.11T.0222	○ 162.10.21T.0222	○ 162.10.12T.0222	○ 162.10.22T.0222
2"	○ 162.11.11T.0222	○ 162.11.21T.0222	○ 162.11.12T.0222	○ 162.11.22T.0222
2½"	○ 162.12.11T.0222	○ 162.12.21T.0222	○ 162.12.12T.0222	○ 162.12.22T.0222
3"	○ 162.13.11T.0222	○ 162.13.21T.0222	○ 162.13.12T.0222	○ 162.13.22T.0222
4"	○ 162.15.11T.0222	○ 162.15.21T.0222	○ 162.15.12T.0222	○ 162.15.22T.0222

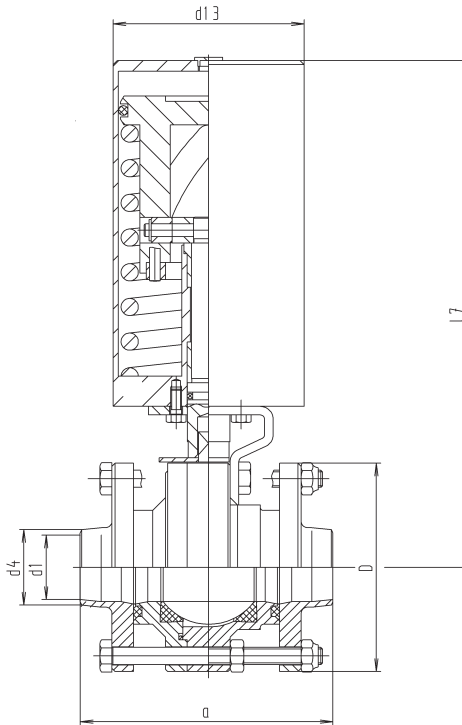
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, betw. flanges, inch OD (860Z)



DN	a	d1	d4	D	l8	l9	weight (kg)
1"	108	22.1	25.4	92	91	132	3,120
1½"	128	34.8	38.1	110	100	132	4,180
2"	138	47.5	50.8	127	109	132	5,660
2½"	168	60.2	63.5	142	124	165	10,210
3"	198	72.9	76.2	162	135	165	14,400
4"	238	97.4	101.6	200	162	216	26,140

ball valve, betw. flanges, air/spring (NC), inch OD (860)



DN	a	d1	d13	d4	D	l7	weight (kg)
1"	108	22.1	89	25.4	92	234	6,100
1½"	128	34.8	89	38.1	110	242	7,160
2"	138	47.5	89	50.8	127	251	8,640
2½"	168	60.2	108	63.5	142	290	14,460
3"	198	72.9	108	76.2	162	300	18,690
4"	238	97.4	133	101.6	200	369	34,100

ball valve, betw. flanges, inch OD (860Z)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 161.08.11T.0223	○ 161.08.21T.0223	○ 161.08.12T.0223	○ 161.08.22T.0223
1½"	○ 161.10.11T.0223	○ 161.10.21T.0223	○ 161.10.12T.0223	○ 161.10.22T.0223
2"	● 161.11.11T.0223	○ 161.11.21T.0223	○ 161.11.12T.0223	○ 161.11.22T.0223
2½"	○ 161.12.11T.0223	○ 161.12.21T.0223	○ 161.12.12T.0223	○ 161.12.22T.0223
3"	○ 161.13.11T.0223	○ 161.13.21T.0223	○ 161.13.12T.0223	○ 161.13.22T.0223
4"	○ 161.15.11T.0223	○ 161.15.21T.0223	○ 161.15.12T.0223	○ 161.15.22T.0223

sealing kit: PTFE/Viton FEP -coated

ball valve, betw. flanges, inch OD (860Z)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
1"	○ 161.08.11T.0224	○ 161.08.21T.0224	○ 161.08.12T.0224	○ 161.08.22T.0224
1½"	○ 161.10.11T.0224	○ 161.10.21T.0224	○ 161.10.12T.0224	○ 161.10.22T.0224
2"	○ 161.11.11T.0224	○ 161.11.21T.0224	○ 161.11.12T.0224	○ 161.11.22T.0224
2½"	○ 161.12.11T.0224	○ 161.12.21T.0224	○ 161.12.12T.0224	○ 161.12.22T.0224
3"	○ 161.13.11T.0224	○ 161.13.21T.0224	○ 161.13.12T.0224	○ 161.13.22T.0224
4"	○ 161.15.11T.0224	○ 161.15.21T.0224	○ 161.15.12T.0224	○ 161.15.22T.0224

sealing kit: PTFE/Viton FEP -coated

ball valve, betw. flanges, air/spring (NC), inch OD (860)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 162.08.11T.0223	○ 162.08.21T.0223	○ 162.08.12T.0223	○ 162.08.22T.0223
1½"	○ 162.10.11T.0223	○ 162.10.21T.0223	○ 162.10.12T.0223	○ 162.10.22T.0223
2"	○ 162.11.11T.0223	○ 162.11.21T.0223	○ 162.11.12T.0223	○ 162.11.22T.0223
2½"	○ 162.12.11T.0223	○ 162.12.21T.0223	○ 162.12.12T.0223	○ 162.12.22T.0223
3"	○ 162.13.11T.0223	○ 162.13.21T.0223	○ 162.13.12T.0223	○ 162.13.22T.0223
4"	○ 162.15.11T.0223	○ 162.15.21T.0223	○ 162.15.12T.0223	○ 162.15.22T.0223

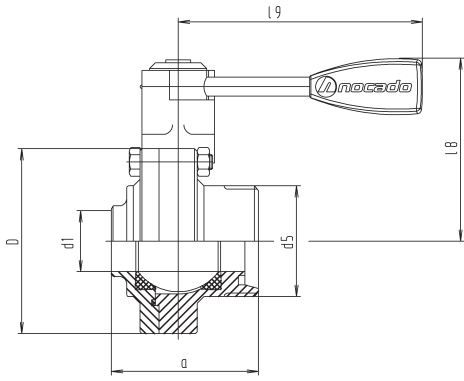
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, betw. flanges, air/spring (NC), inch OD (860)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
1"	○ 162.08.11T.0224	○ 162.08.21T.0224	○ 162.08.12T.0224	○ 162.08.22T.0224
1½"	○ 162.10.11T.0224	○ 162.10.21T.0224	○ 162.10.12T.0224	○ 162.10.22T.0224
2"	○ 162.11.11T.0224	○ 162.11.21T.0224	○ 162.11.12T.0224	○ 162.11.22T.0224
2½"	○ 162.12.11T.0224	○ 162.12.21T.0224	○ 162.12.12T.0224	○ 162.12.22T.0224
3"	○ 162.13.11T.0224	○ 162.13.21T.0224	○ 162.13.12T.0224	○ 162.13.22T.0224
4"	○ 162.15.11T.0224	○ 162.15.21T.0224	○ 162.15.12T.0224	○ 162.15.22T.0224

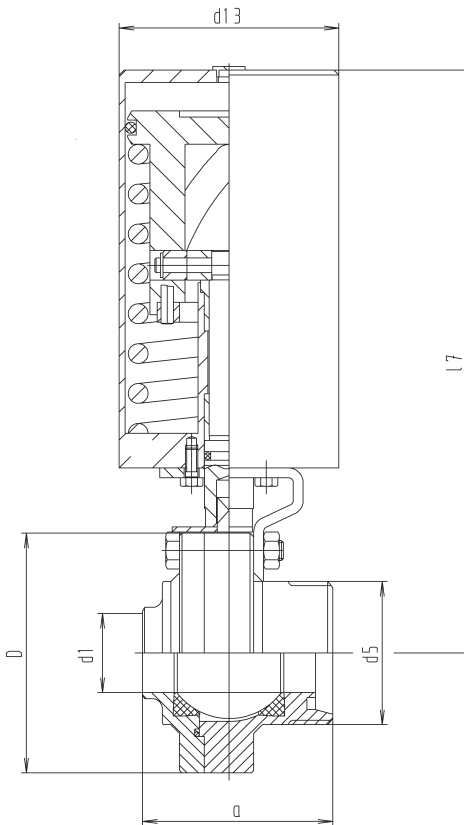
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, male/weld end, manually operated, DIN (852)



DN	a	d1	d5	D	l8	l9	weight (kg)
25	69	26	52x1/6"	92	91	132	2,150
32	77	32	58x1/6"	97	94	132	2,280
40	88	38	65x1/6"	110	100	132	2,970
50	99	50	78x1/6"	127	109	132	4,000
65	129	66	95x1/6"	142	124	165	7,500
80	156	81	110x1/4"	162	135	165	10,600
100	195	100	130x1/4"	200	162	216	19,800

ball valve, male/weld end, air/spring (NC), DIN (852)



DN	a	d1	d5	D	d13	l7	weight (kg)
25	69	26	52x1/6"	92	89	234	5,050
32	77	32	58x1/6"	97	89	236	5,210
40	88	38	65x1/6"	110	89	242	5,900
50	99	50	78x1/6"	127	89	251	6,980
65	129	66	95x1/6"	142	108	290	11,750
80	156	81	110x1/4"	162	108	300	14,950
100	195	100	130x1/4"	200	133	369	28,050

ball valve, male/weld end, manually operated, DIN (852)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 161.08.11T.0214	● 161.08.21T.0214	● 161.08.12T.0214	● 161.08.22T.0214
32	● 161.09.11T.0214	● 161.09.21T.0214	● 161.09.12T.0214	● 161.09.22T.0214
40	● 161.10.11T.0214	● 161.10.21T.0214	● 161.10.12T.0214	● 161.10.22T.0214
50	● 161.11.11T.0214	● 161.11.21T.0214	● 161.11.12T.0214	● 161.11.22T.0214
65	○ 161.12.11T.0214	○ 161.12.21T.0214	○ 161.12.12T.0214	○ 161.12.22T.0214
80	○ 161.14.11T.0214	○ 161.14.21T.0214	○ 161.14.12T.0214	○ 161.14.22T.0214
100	○ 161.15.11T.0214	○ 161.15.21T.0214	○ 161.15.12T.0214	○ 161.15.22T.0214

sealing kit: PTFE/Viton FEP -coated

ball valve, male/weld end, manually operated, DIN (852)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 161.08.11T.0229	○ 161.08.21T.0229	○ 161.08.12T.0229	○ 161.08.22T.0229
32	○ 161.09.11T.0229	○ 161.09.21T.0229	○ 161.09.12T.0229	○ 161.09.22T.0229
40	○ 161.10.11T.0229	○ 161.10.21T.0229	○ 161.10.12T.0229	○ 161.10.22T.0229
50	○ 161.11.11T.0229	○ 161.11.21T.0229	○ 161.11.12T.0229	○ 161.11.22T.0229
65	○ 161.12.11T.0229	○ 161.12.21T.0229	○ 161.12.12T.0229	○ 161.12.22T.0229
80	○ 161.14.11T.0229	○ 161.14.21T.0229	○ 161.14.12T.0229	○ 161.14.22T.0229
100	○ 161.15.11T.0229	○ 161.15.21T.0229	○ 161.15.12T.0229	○ 161.15.22T.0229

sealing kit: PTFE/Viton FEP -coated

ball valve, male/weld end, air/spring (NC), DIN (852)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 162.08.11T.0214	● 162.08.21T.0214	● 162.08.12T.0214	● 162.08.22T.0214
32	● 162.09.11T.0214	● 162.09.21T.0214	● 162.09.12T.0214	● 162.09.22T.0214
40	● 162.10.11T.0214	● 162.10.21T.0214	● 162.10.12T.0214	● 162.10.22T.0214
50	● 162.11.11T.0214	● 162.11.21T.0214	● 162.11.12T.0214	● 162.11.22T.0214
65	○ 162.12.11T.0214	○ 162.12.21T.0214	● 162.12.12T.0214	● 162.12.22T.0214
80	● 162.14.11T.0214	● 162.14.21T.0214	● 162.14.12T.0214	● 162.14.22T.0214
100	○ 162.15.11T.0214	○ 162.15.21T.0214	○ 162.15.12T.0214	○ 162.15.22T.0214

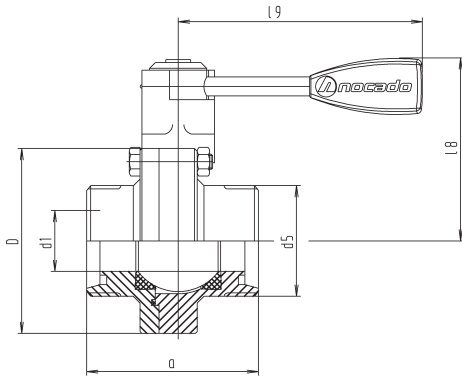
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, male/weld end, air/spring (NC), DIN (852)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 162.08.11T.0229	○ 162.08.21T.0229	○ 162.08.12T.0229	○ 162.08.22T.0229
32	○ 162.09.11T.0229	○ 162.09.21T.0229	○ 162.09.12T.0229	○ 162.09.22T.0229
40	○ 162.10.11T.0229	○ 162.10.21T.0229	○ 162.10.12T.0229	○ 162.10.22T.0229
50	○ 162.11.11T.0229	○ 162.11.21T.0229	○ 162.11.12T.0229	○ 162.11.22T.0229
65	○ 162.12.11T.0229	○ 162.12.21T.0229	○ 162.12.12T.0229	○ 162.12.22T.0229
80	○ 162.14.11T.0229	○ 162.14.21T.0229	○ 162.14.12T.0229	○ 162.14.22T.0229
100	○ 162.15.11T.0229	○ 162.15.21T.0229	○ 162.15.12T.0229	○ 162.15.22T.0229

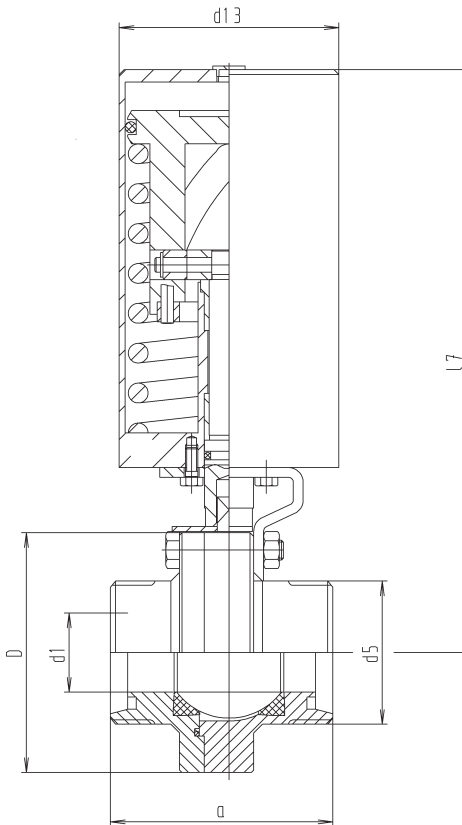
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, male/male, manually operated, DIN (855)



DN	a	d1	d5	D	l8	l9	weight (kg)
25	86	26	52x1/6"	92	91	132	2,200
32	90	32	58x1/6"	97	94	132	2,360
40	96	38	65x1/6"	110	100	132	3,030
50	106	50	78x1/6"	127	109	132	4,160
65	138	66	95x1/6"	142	124	165	7,650
80	172	81	110x1/4"	162	135	165	11,000
100	195	100	130x1/4"	200	162	216	20,400

ball valve, male/male, air/spring (NC), DIN (855)



DN	a	d1	d5	D	d13	l7	weight (kg)
25	86	26	52x1/6"	92	89	234	5,180
32	90	32	58x1/6"	97	89	236	5,340
40	96	38	65x1/6"	110	89	242	6,010
50	106	50	78x1/6"	127	89	251	7,140
65	138	66	95x1/6"	142	108	290	11,900
80	172	81	110x1/4"	162	108	300	15,250
100	195	100	130x1/4"	200	133	369	28,360

ball valve, male/male, manually operated, DIN (855)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 161.08.11T.0210	● 161.08.21T.0210	● 161.08.12T.0210	● 161.08.22T.0210
32	● 161.09.11T.0210	● 161.09.21T.0210	● 161.09.12T.0210	● 161.09.22T.0210
40	● 161.10.11T.0210	● 161.10.21T.0210	● 161.10.12T.0210	● 161.10.22T.0210
50	● 161.11.11T.0210	● 161.11.21T.0210	● 161.11.12T.0210	● 161.11.22T.0210
65	○ 161.12.11T.0210	○ 161.12.21T.0210	○ 161.12.12T.0210	○ 161.12.22T.0210
80	○ 161.14.11T.0210	○ 161.14.21T.0210	○ 161.14.12T.0210	○ 161.14.22T.0210
100	○ 161.15.11T.0210	○ 161.15.21T.0210	○ 161.15.12T.0210	○ 161.15.22T.0210

sealing kit: PTFE/Viton FEP -coated

ball valve, male/male, manually operated, DIN (855)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 161.08.11T.0221	○ 161.08.21T.0221	○ 161.08.12T.0221	○ 161.08.22T.0221
32	○ 161.09.11T.0221	○ 161.09.21T.0221	○ 161.09.12T.0221	○ 161.09.22T.0221
40	○ 161.10.11T.0221	○ 161.10.21T.0221	○ 161.10.12T.0221	○ 161.10.22T.0221
50	○ 161.11.11T.0221	○ 161.11.21T.0221	○ 161.11.12T.0221	○ 161.11.22T.0221
65	○ 161.12.11T.0221	○ 161.12.21T.0221	○ 161.12.12T.0221	○ 161.12.22T.0221
80	○ 161.14.11T.0221	○ 161.14.21T.0221	○ 161.14.12T.0221	○ 161.14.22T.0221
100	○ 161.15.11T.0221	○ 161.15.21T.0221	○ 161.15.12T.0221	○ 161.15.22T.0221

sealing kit: PTFE/Viton FEP -coated

ball valve, male/male, air/spring (NC), DIN (855)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 162.08.11T.0210	● 162.08.21T.0210	● 162.08.12T.0210	● 162.08.22T.0210
32	● 162.09.11T.0210	● 162.09.21T.0210	● 162.09.12T.0210	● 162.09.22T.0210
40	● 162.10.11T.0210	● 162.10.21T.0210	● 162.10.12T.0210	● 162.10.22T.0210
50	● 162.11.11T.0210	● 162.11.21T.0210	● 162.11.12T.0210	● 162.11.22T.0210
65	● 162.12.11T.0210	● 162.12.21T.0210	● 162.12.12T.0210	● 162.12.22T.0210
80	● 162.14.11T.0210	● 162.14.21T.0210	● 162.14.12T.0210	● 162.14.22T.0210
100	○ 162.15.11T.0210	○ 162.15.21T.0210	○ 162.15.12T.0210	○ 162.15.22T.0210

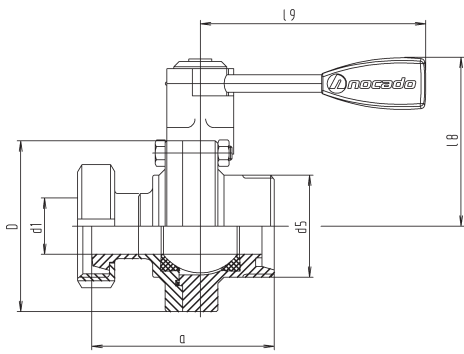
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, male/male, air/spring (NC), DIN (855)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 162.08.11T.0221	○ 162.08.21T.0221	○ 162.08.12T.0221	○ 162.08.22T.0221
32	○ 162.09.11T.0221	○ 162.09.21T.0221	○ 162.09.12T.0221	○ 162.09.22T.0221
40	○ 162.10.11T.0221	○ 162.10.21T.0221	○ 162.10.12T.0221	○ 162.10.22T.0221
50	○ 162.11.11T.0221	○ 162.11.21T.0221	○ 162.11.12T.0221	○ 162.11.22T.0221
65	○ 162.12.11T.0221	○ 162.12.21T.0221	○ 162.12.12T.0221	○ 162.12.22T.0221
80	○ 162.14.11T.0221	○ 162.14.21T.0221	○ 162.14.12T.0221	○ 162.14.22T.0221
100	○ 162.15.11T.0221	○ 162.15.21T.0221	○ 162.15.12T.0221	○ 162.15.22T.0221

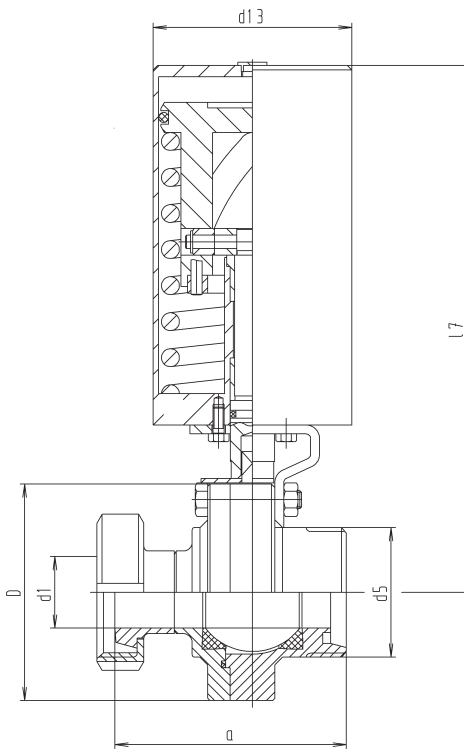
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, male/liner, manually operated, DIN (856)



DN	a	d1	d5	D	l8	l9	weight (kg)
25	91	26	52x1/6"	92	91	132	2,400
32	102	32	58x1/6"	97	94	132	2,600
40	114	38	65x1/6"	110	100	132	3,400
50	127	50	78x1/6"	127	109	132	4,400
65	161	66	95x1/6"	142	124	165	8,400
80	193	81	110x1/4"	162	135	165	11,700
100	239	100	130x1/4"	200	162	216	20,800

ball valve, male/liner, air/spring (NC), DIN (856)



DN	a	d1	d5	D	d13	l7	weight (kg)
25	91	26	52x1/6"	92	89	234	5,320
32	102	32	58x1/6"	97	89	236	5,540
40	114	38	65x1/6"	110	89	242	6,280
50	127	50	78x1/6"	127	89	251	7,500
65	161	66	95x1/6"	142	108	290	13,130
80	193	81	110x1/4"	162	108	300	15,980
100	239	100	130x1/4"	200	133	369	29,460

ball valve, male/liner, manually operated, DIN (856)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 161.08.11T.0218	○ 161.08.21T.0218	○ 161.08.12T.0218	○ 161.08.22T.0218
32	○ 161.09.11T.0218	○ 161.09.21T.0218	○ 161.09.12T.0218	○ 161.09.22T.0218
40	○ 161.10.11T.0218	○ 161.10.21T.0218	○ 161.10.12T.0218	○ 161.10.22T.0218
50	○ 161.11.11T.0218	○ 161.11.21T.0218	○ 161.11.12T.0218	○ 161.11.22T.0218
65	○ 161.12.11T.0218	○ 161.12.21T.0218	○ 161.12.12T.0218	○ 161.12.22T.0218
80	○ 161.14.11T.0218	○ 161.14.21T.0218	○ 161.14.12T.0218	○ 161.14.22T.0218
100	○ 161.15.11T.0218	○ 161.15.21T.0218	○ 161.15.12T.0218	○ 161.15.22T.0218

sealing kit: PTFE/Viton FEP -coated

ball valve, male/liner, manually operated, DIN (856)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 161.08.11T.0230	○ 161.08.21T.0230	○ 161.08.12T.0230	○ 161.08.22T.0230
32	○ 161.09.11T.0230	○ 161.09.21T.0230	○ 161.09.12T.0230	○ 161.09.22T.0230
40	○ 161.10.11T.0230	○ 161.10.21T.0230	○ 161.10.12T.0230	○ 161.10.22T.0230
50	○ 161.11.11T.0230	○ 161.11.21T.0230	○ 161.11.12T.0230	○ 161.11.22T.0230
65	○ 161.12.11T.0230	○ 161.12.21T.0230	○ 161.12.12T.0230	○ 161.12.22T.0230
80	○ 161.14.11T.0230	○ 161.14.21T.0230	○ 161.14.12T.0230	○ 161.14.22T.0230
100	○ 161.15.11T.0230	○ 161.15.21T.0230	○ 161.15.12T.0230	○ 161.15.22T.0230

sealing kit: PTFE/Viton FEP -coated

ball valve, male/liner, air/spring (NC), DIN (856)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 162.08.11T.0218	○ 162.08.21T.0218	○ 162.08.12T.0218	○ 162.08.22T.0218
32	○ 162.09.11T.0218	○ 162.09.21T.0218	○ 162.09.12T.0218	○ 162.09.22T.0218
40	○ 162.10.11T.0218	○ 162.10.21T.0218	○ 162.10.12T.0218	○ 162.10.22T.0218
50	○ 162.11.11T.0218	○ 162.11.21T.0218	○ 162.11.12T.0218	○ 162.11.22T.0218
65	○ 162.12.11T.0218	○ 162.12.21T.0218	○ 162.12.12T.0218	○ 162.12.22T.0218
80	○ 162.14.11T.0218	○ 162.14.21T.0218	○ 162.14.12T.0218	○ 162.14.22T.0218
100	○ 162.15.11T.0218	○ 162.15.21T.0218	○ 162.15.12T.0218	○ 162.15.22T.0218

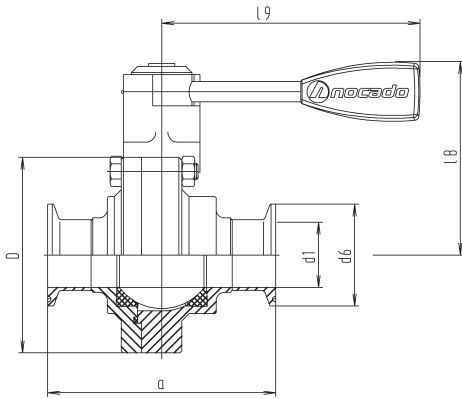
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, male/liner, air/spring (NC), DIN (856)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 162.08.11T.0230	○ 162.08.21T.0230	○ 162.08.12T.0230	○ 162.08.22T.0230
32	○ 162.09.11T.0230	○ 162.09.21T.0230	○ 162.09.12T.0230	○ 162.09.22T.0230
40	○ 162.10.11T.0230	○ 162.10.21T.0230	○ 162.10.12T.0230	○ 162.10.22T.0230
50	○ 162.11.11T.0230	○ 162.11.21T.0230	○ 162.11.12T.0230	○ 162.11.22T.0230
65	○ 162.12.11T.0230	○ 162.12.21T.0230	○ 162.12.12T.0230	○ 162.12.22T.0230
80	○ 162.14.11T.0230	○ 162.14.21T.0230	○ 162.14.12T.0230	○ 162.14.22T.0230
100	○ 162.15.11T.0230	○ 162.15.21T.0230	○ 162.15.12T.0230	○ 162.15.22T.0230

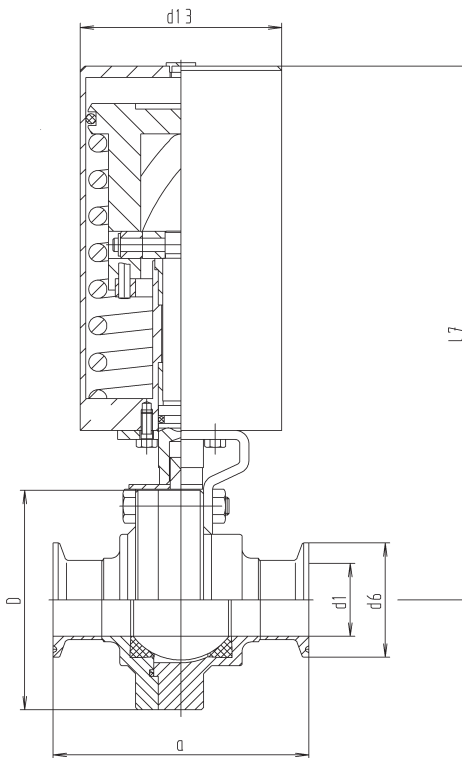
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, clamp/clamp, DIN (844)



DN	a	d1	d6	D	l8	l9	weight (kg)
25	105	26	50.5	92	91	132	2,080
32	113	32	50.5	97	94	132	2,220
40	129	38	50.5	110	100	132	2,970
50	145	50	64	127	109	132	4,090
65	180	66	91	142	124	165	7,510
80	196	81	106	162	135	165	10,250
100	246	100	119	200	162	216	18,790

ball valve, clamp/clamp, air/spring (NC), DIN (844)



DN	a	d1	d6	D	d13	l7	weight (kg)
25	105	26	50.5	92	89	234	5,060
32	113	32	50.5	97	89	236	5,200
40	129	38	50.5	110	89	242	5,970
50	145	50	64	127	89	251	7,070
65	180	66	91	142	108	290	11,760
80	196	81	106	162	108	300	14,490
100	246	100	119	200	133	369	26,750

ball valve, clamp/clamp, DIN (844)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 161.08.11T.0219	○ 161.08.21T.0219	○ 161.08.12T.0219	○ 161.08.22T.0219
32	○ 161.09.11T.0219	○ 161.09.21T.0219	○ 161.09.12T.0219	○ 161.09.22T.0219
40	○ 161.10.11T.0219	○ 161.10.21T.0219	○ 161.10.12T.0219	○ 161.10.22T.0219
50	○ 161.11.11T.0219	○ 161.11.21T.0219	○ 161.11.12T.0219	○ 161.11.22T.0219
65	○ 161.12.11T.0219	○ 161.12.21T.0219	○ 161.12.12T.0219	○ 161.12.22T.0219
80	○ 161.14.11T.0219	○ 161.14.21T.0219	○ 161.14.12T.0219	○ 161.14.22T.0219
100	○ 161.15.11T.0219	○ 161.15.21T.0219	○ 161.15.12T.0219	○ 161.15.22T.0219

sealing kit: PTFE/Viton FEP -coated

ball valve, clamp/clamp, DIN (844)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 161.08.11T.0228	○ 161.08.21T.0228	○ 161.08.12T.0228	○ 161.08.22T.0228
32	○ 161.09.11T.0228	○ 161.09.21T.0228	○ 161.09.12T.0228	○ 161.09.22T.0228
40	○ 161.10.11T.0228	○ 161.10.21T.0228	○ 161.10.12T.0228	○ 161.10.22T.0228
50	○ 161.11.11T.0228	○ 161.11.21T.0228	○ 161.11.12T.0228	○ 161.11.22T.0228
65	○ 161.12.11T.0228	○ 161.12.21T.0228	○ 161.12.12T.0228	○ 161.12.22T.0228
80	○ 161.14.11T.0228	○ 161.14.21T.0228	○ 161.14.12T.0228	○ 161.14.22T.0228
100	○ 161.15.11T.0228	○ 161.15.21T.0228	○ 161.15.12T.0228	○ 161.15.22T.0228

sealing kit: PTFE/Viton FEP -coated

ball valve, clamp/clamp, air/spring (NC), DIN (844)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 162.08.11T.0219	○ 162.08.21T.0219	○ 162.08.12T.0219	○ 162.08.22T.0219
32	○ 162.09.11T.0219	○ 162.09.21T.0219	○ 162.09.12T.0219	○ 162.09.22T.0219
40	○ 162.10.11T.0219	○ 162.10.21T.0219	○ 162.10.12T.0219	○ 162.10.22T.0219
50	○ 162.11.11T.0219	○ 162.11.21T.0219	○ 162.11.12T.0219	○ 162.11.22T.0219
65	○ 162.12.11T.0219	○ 162.12.21T.0219	○ 162.12.12T.0219	○ 162.12.22T.0219
80	○ 162.14.11T.0219	○ 162.14.21T.0219	○ 162.14.12T.0219	○ 162.14.22T.0219
100	○ 162.15.11T.0219	○ 162.15.21T.0219	○ 162.15.12T.0219	○ 162.15.22T.0219

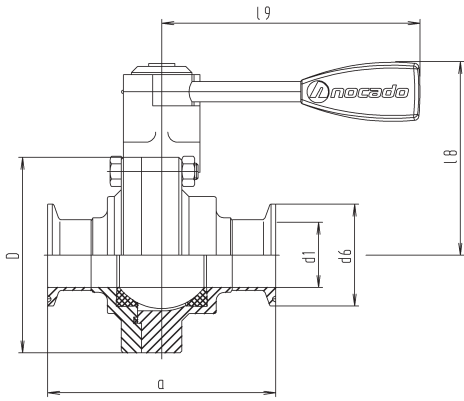
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, clamp/clamp, air/spring (NC), DIN (844)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
25	○ 162.08.11T.0228	○ 162.08.21T.0228	○ 162.08.12T.0228	○ 162.08.22T.0228
32	○ 162.09.11T.0228	○ 162.09.21T.0228	○ 162.09.12T.0228	○ 162.09.22T.0228
40	○ 162.10.11T.0228	○ 162.10.21T.0228	○ 162.10.12T.0228	○ 162.10.22T.0228
50	○ 162.11.11T.0228	○ 162.11.21T.0228	○ 162.11.12T.0228	○ 162.11.22T.0228
65	○ 162.12.11T.0228	○ 162.12.21T.0228	○ 162.12.12T.0228	○ 162.12.22T.0228
80	○ 162.14.11T.0228	○ 162.14.21T.0228	○ 162.14.12T.0228	○ 162.14.22T.0228
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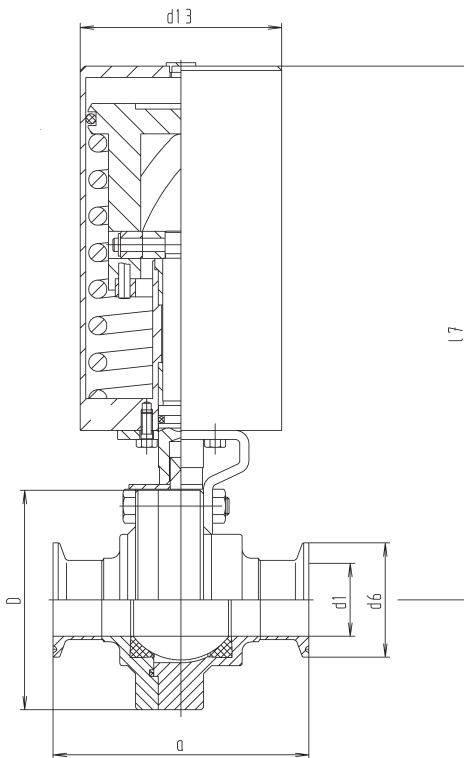
sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, clamp/clamp, manually operated, inch OD (844Z)



DN	a	d1	d6	D	l8	l9	weight (kg)
1"	105	22.1	50.5	92	91	132	2,080
1½"	129	34.8	50.5	110	100	132	2,970
2"	145	47.5	64	127	109	132	4,090
2½"	180	60.2	77.5	142	124	165	7,510
3"	200	72.9	91	162	135	165	10,250
4"	246	97.4	119	200	162	216	18,790

ball valve, clamp/clamp, air/spring (NC), inch OD (844Z)



DN	a	d1	d6	D	d13	l7	weight (kg)
1"	105	22.1	50.5	92	89	234	5,060
1½"	129	34.8	50.5	110	89	242	5,970
2"	145	47.5	64	127	89	251	7,070
2½"	180	60.2	77.5	142	108	290	11,760
3"	200	72.9	91	162	108	300	14,490
4"	246	97.4	119	200	133	369	26,750

ball valve, clamp/clamp, manually operated, inch OD (844Z)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 161.08.11T.0226	○ 161.08.21T.0226	○ 161.08.12T.0226	○ 161.08.22T.0226
1½"	○ 161.10.11T.0226	○ 161.10.21T.0226	○ 161.10.12T.0226	○ 161.10.22T.0226
2"	○ 161.11.11T.0226	○ 161.11.21T.0226	○ 161.11.12T.0226	○ 161.11.22T.0226
2½"	○ 161.12.11T.0226	○ 161.12.21T.0226	○ 161.12.12T.0226	○ 161.12.22T.0226
3"	○ 161.13.11T.0226	○ 161.13.21T.0226	○ 161.13.12T.0226	○ 161.13.22T.0226
4"	○ 161.15.11T.0226	○ 161.15.21T.0226	○ 161.15.12T.0226	○ 161.15.22T.0226

sealing kit: PTFE/Viton FEP -coated

ball valve, clamp/clamp, manually operated, inch OD (844Z)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
1"	○ 161.08.11T.0227	○ 161.08.21T.0227	○ 161.08.12T.0227	○ 161.08.22T.0227
1½"	○ 161.10.11T.0227	○ 161.10.21T.0227	○ 161.10.12T.0227	○ 161.10.22T.0227
2"	○ 161.11.11T.0227	○ 161.11.21T.0227	○ 161.11.12T.0227	○ 161.11.22T.0227
2½"	○ 161.12.11T.0227	○ 161.12.21T.0227	○ 161.12.12T.0227	○ 161.12.22T.0227
3"	○ 161.13.11T.0227	○ 161.13.21T.0227	○ 161.13.12T.0227	○ 161.13.22T.0227
4"	○ 161.15.11T.0227	○ 161.15.21T.0227	○ 161.15.12T.0227	○ 161.15.22T.0227

sealing kit: PTFE/Viton FEP -coated

ball valve, clamp/clamp, air/spring (NC), inch OD (844Z)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 162.08.11T.0226	○ 162.08.21T.0226	○ 162.08.12T.0226	○ 162.08.22T.0226
1½"	○ 162.10.11T.0226	○ 162.10.21T.0226	○ 162.10.12T.0226	○ 162.10.22T.0226
2"	○ 162.11.11T.0226	○ 162.11.21T.0226	○ 162.11.12T.0226	○ 162.11.22T.0226
2½"	○ 162.12.11T.0226	○ 162.12.21T.0226	○ 162.12.12T.0226	○ 162.12.22T.0226
3"	○ 162.13.11T.0226	○ 162.13.21T.0226	○ 162.13.12T.0226	○ 162.13.22T.0226
4"	○ 162.15.11T.0226	○ 162.15.21T.0226	○ 162.15.12T.0226	○ 162.15.22T.0226

sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

ball valve, clamp/clamp, air/spring (NC), inch OD (844Z)

DN	304 pol. rinsing con. Ident number	304 matt rinsing. con Ident number	316 L pol. rinsing-con. Ident number	316 L matt rinsing-con. Ident number
1"	○ 162.08.11T.0227	○ 162.08.21T.0227	○ 162.08.12T.0227	○ 162.08.22T.0227
1½"	○ 162.10.11T.0227	○ 162.10.21T.0227	○ 162.10.12T.0227	○ 162.10.22T.0227
2"	○ 162.11.11T.0227	○ 162.11.21T.0227	○ 162.11.12T.0227	○ 162.11.22T.0227
2½"	○ 162.12.11T.0227	○ 162.12.21T.0227	○ 162.12.12T.0227	○ 162.12.22T.0227
3"	○ 162.13.11T.0227	○ 162.13.21T.0227	○ 162.13.12T.0227	○ 162.13.22T.0227
4"	○ 162.15.11T.0227	○ 162.15.21T.0227	○ 162.15.12T.0227	○ 162.15.22T.0227

sealing kit: PTFE/Viton FEP -coated, version LL (air/air) available

I.2 Ball valves

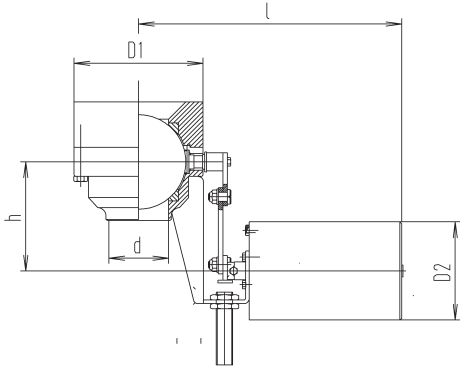
I.2.2 Ball valves • Tank bottom ball valves

page

Tank bottom ball valve, air/spring (NC), DIN.....	I.2.2-1
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tank bottom ball valve, air/spring (NC), DIN



DN	d	d1	d2	h	l	weight (kg)
40	38	110	90	120	272	7,210
50	50	127	108	120	283	9,340
65	66	142	108	120	290	13,840
80	81	162	108	120	300	16,420



1.2 Ball valves

1.2.3 Ball valves • Spare parts

page

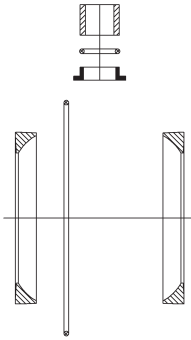
Seal kit for ball valve DIN/inch OD	1.2.3-1
Seal kit for ball valve between flanges DIN/inch OD	1.2.3-1
Ball for ball valve, DIN or inch OD (807)	1.2.3-1
Shaft for ball valve, DIN or inch OD	1.2.3-1

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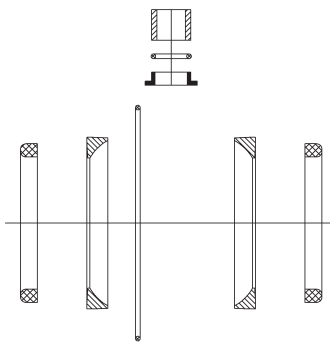
Back

seal kit for ball valve DIN/inch OD



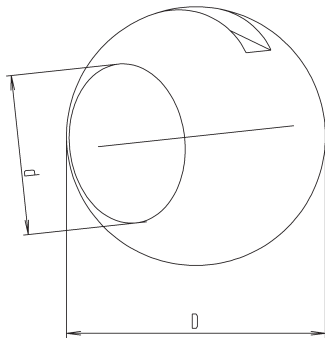
DN	weight (kg)
25	0,024
32	0,042
40	0,053
50	0,057
65	0,103
80	0,132
100	0,174

seal kit for ball valve between flanges DIN/inch OD



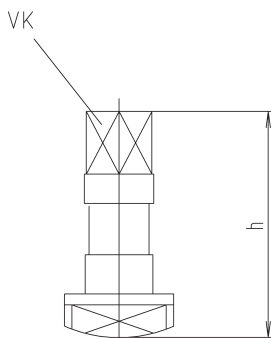
DN	weight (kg)
25	0,024
32	0,042
40	0,053
50	0,057
65	0,103
80	0,132
100	0,174

ball for ball valve, DIN or inch OD (807)



DN	d	d	weight (kg)
25	45	26	0,178
32	53	32	0,263
40	63	38	0,457
50	80	50	0,892
65	104	66	1,950
75/3"	125	72	4,130
80	125	81	3,270
100	153	100	5,990

shaft for ball valve, DIN or inch OD



DN	h	VK	weight (kg)
25	41.5	9.5	-
32	39.5	9.5	-
40	41	9.5	-
50	41	9.5	-
65 - 80	37	11.5	-
100	45	14	-

seal kit for ball valve DIN/inch OD

PTFE	
DN	Ident number
25	○ 269.08.6TY.0156
32	○ 269.09.6TY.0156
40	○ 269.10.6TY.0156
50	○ 269.11.6TY.0156
65	○ 269.12.6TY.0156
80	○ 269.14.6TY.0156
100	○ 269.15.6TY.0156

seal kit for ball valve between flanges DIN/inch OD

PTFE	
DN	Ident number
25	○ 269.08.6T0.0171
32	○ 269.09.6T0.0171
40	○ 269.10.6T0.0171
50	○ 269.11.6T0.0171
65	○ 269.12.6T0.0171
80	○ 269.14.6T0.0171
100	○ 269.15.6T0.0171

ball for ball valve, DIN or inch OD (807)

I.4408	
DN	Ident number
25	○ 895.08.620.0016
32	○ 895.09.620.0016
40	○ 895.10.620.0016
50	○ 895.11.620.0016
65	○ 895.12.620.0016
75/3"	○ 895.13.620.0016
80	○ 895.14.620.0016
100	○ 895.15.620.0016

shaft for ball valve, DIN or inch OD

I.4462	
DN	Ident number
25	○ 269.08.5X0.0033
32	○ 269.09.5X0.0033
40	○ 269.10.5X0.0033
50	○ 269.11.5X0.0033
65 - 80	○ 269.12.5X0.0033
100	○ 269.15.5X0.0033

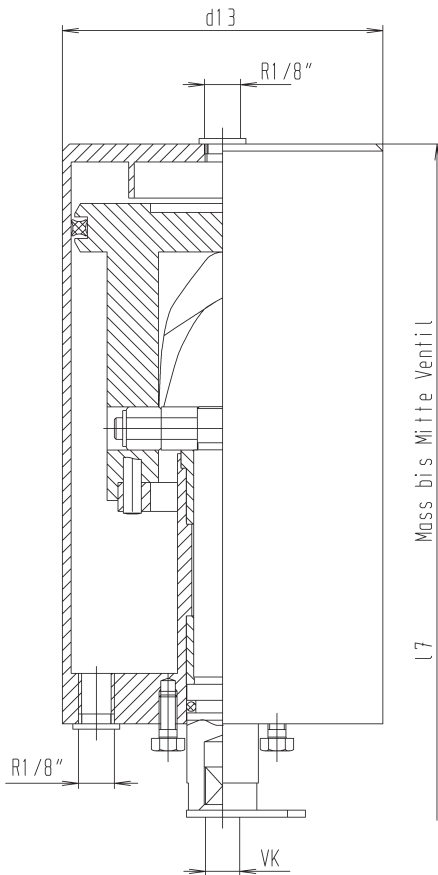
1.2 Ball valves

1.2.4 Ball valves • Accessories for ball valves

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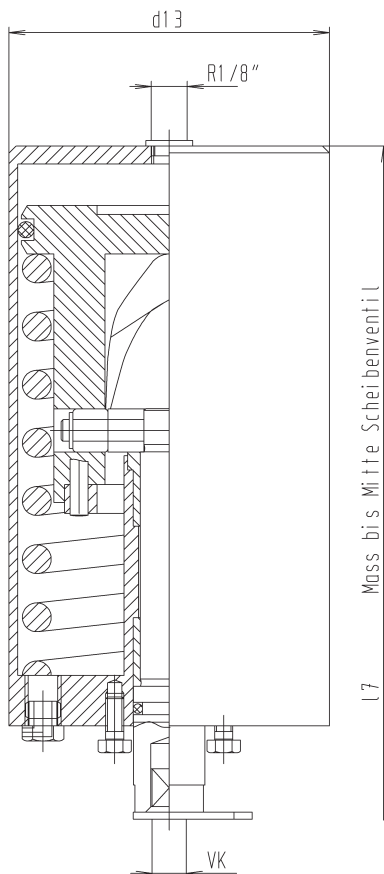
Pneumatic actuator, air/air for ball valves (677)	1.2.4-1
Pneumatic actuator, air/spring (NC) for ball valves (678)	1.2.4-1
Pneumatic actuator, spring/air (NO) for ball valves (678)	1.2.4-3
Control head for actuator A/S	1.2.4-3
Revertive signal top	1.2.4-5
Actuator pneumatic air/air with top	1.2.4-5
ASI top actuator A/S	1.2.4-7

pneumatic actuator, air/air for ball valves (677)



DN	d13	l7	squarebare	weight (kg)
25	89	234	9.5	2,480
32	89	236	9.5	2,480
40	89	242	9.5	2,480
50	89	251	9.5	2,480
65	108	290	11.5	2,480
75/3"-80	108	300	11.5	2,480
100	133	369	14	2,480

pneumatic actuator, air/spring (NC) for ball valves (678)



DN	d13	l7	squarebare	weight (kg)
25	89	234	9.5	3,130
32	89	236	9.5	3,130
40	89	242	9.5	3,130
50	89	251	9.5	3,130
65	108	290	11.5	3,130
75/3"-80	108	300	11.5	3,130
100	133	369	14	3,130

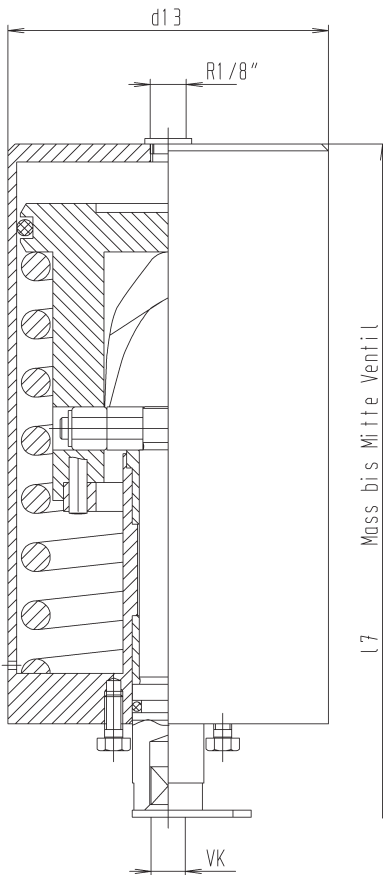
pneumatic actuator, air/air for ball valves (677)

DN	304 brushed Ident number
25	○ 165.08.310.0000
32	○ 165.08.310.0000
40	○ 165.08.310.0000
50	○ 165.08.310.0000
65	○ 165.14.310.0000
75/3"-80	○ 165.14.310.0000
100	○ 165.16.310.0000

pneumatic actuator, air/spring (NC) for ball valves (678)

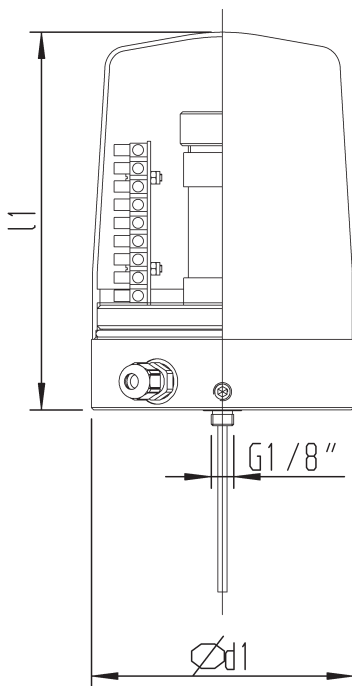
DN	304 brushed Ident number
25	● 165.08.310.0003
32	● 165.08.310.0003
40	● 165.08.310.0003
50	● 165.08.310.0003
65	● 165.14.310.0003
75/3"-80	● 165.14.310.0003
100	● 165.16.310.0003

pneumatic actuator, spring/air (NO) for ball valves (678)



DN	d13	l7	squarebare	weight (kg)
25	89	234	9.5	3,130
32	89	236	9.5	3,130
40	89	242	9.5	3,130
50	89	251	9.5	3,130
65	108	290	11.5	3,130
75/3"-80	108	300	11.5	3,130
100	133	369	14	3,130

controlhead for actuator A/S



DN	d1	l1	weight (kg)
25 - 200	115	166	-

pneumatic actuator, spring/air (NO) for ball valves
(678)

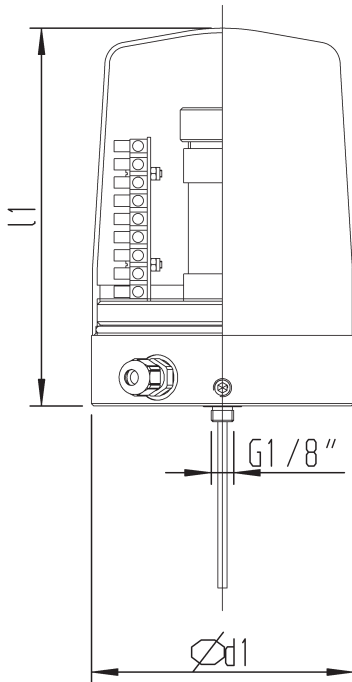
304 brushed	
DN	Ident number
25	○ 165.08.310.0010
32	○ 165.08.310.0010
40	○ 165.08.310.0010
50	○ 165.08.310.0010
65	○ 165.14.310.0010
75/3"-80	○ 165.14.310.0010
100	○ 165.16.310.0010

controlhead for actuator A/S

DN	metal cap, terminal block Ident number	plastic cap, terminal block Ident number	metal cap with plug Ident number	plastic cap with plug Ident number
25 - 200	○ 165.08.6y0.0050	○ 165.08.6y0.0049	○ 165.08.6y0.0051	○ 165.08.6y0.0052

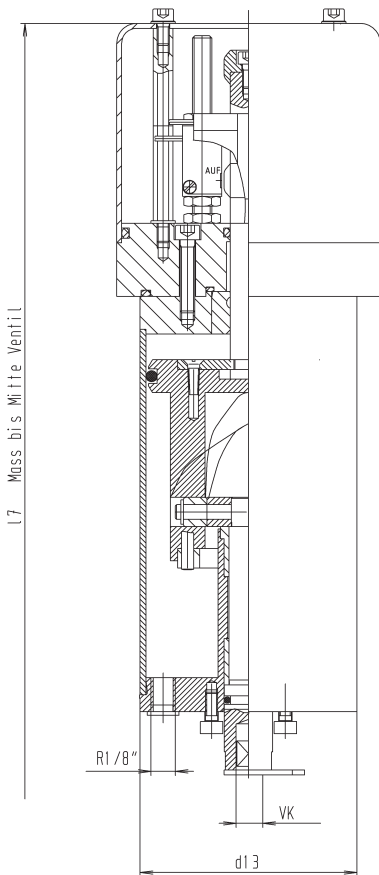
2 x prox.sw, 1 x m-valve, 24VDC

revertive signal top



DN	d1	l1	weight (kg)
25 - 200	115	166	-

actuator pneumatic air/air with top



DN	d13	l7	squarebare	weight (kg)
25	89	355	9.5	-
32	89	358	9.5	-
40	89	364	9.5	-
50	89	373	9.5	-
65	108	442	11.5	-
75/3"-80	108	453	11.5	-
100	133	520	14	-

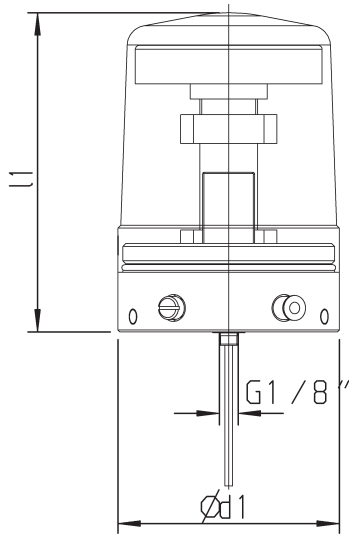
revertive signal top

DN	metal cap, terminal block Ident number	plastic cap, terminal block Ident number	metal cap with plug Ident number	plastic cap with plug Ident number
25 - 200	○ 165.08.6y0.0057	○ 165.08.6y0.0058	○ 165.08.6y0.0059	○ 165.08.6y0.0060
2 x prox.-switch, 24VDC				

actuator pneumatic air/air with top

DN	2 x prox.sw., 2 x m-valve, 24 VDC Ident number	2 x m-switch, 2 x m-valve, 24 VDC Ident number	2 x prox.-switch, 24 VDC Ident number	2 x m-switch, 24 VDC Ident number
25	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027
32	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027
40	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027
50	○ 165.08.310.0022	○ 165.08.310.0023	○ 165.08.310.0025	○ 165.08.310.0027
65	○ 165.14.310.0022	○ 165.14.310.0023	○ 165.14.310.0025	○ 165.14.310.0027
75/3"-80	○ 165.14.310.0022	○ 165.14.310.0023	○ 165.14.310.0025	○ 165.14.310.0027
100	○ 165.16.310.0022	○ 165.16.310.0023	○ 165.16.310.0025	○ 165.16.310.0027

ASI top for actuator A/S



DN	dI	II	weight (kg)
25 - 100	115	166	-

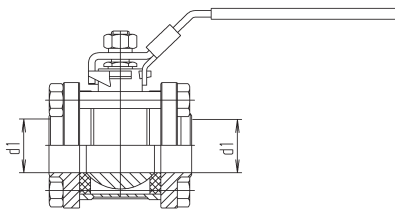
ASI top for actuator A/S

DN	Ident number
25 - 100	o 165.08.6Y0.0033
	further control versions are possible

I.3 Ball valves, industrial version

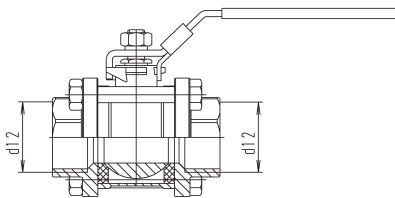
I.3 Ball valves, industrial version	page
Ball valve, three-pieces, weld ends, PN 64.....	1.3-1
Ball valve, three-pieces, R-thread, PN 64.....	1.3-1
Ball valve, two-pieces, R-thread, PN 64.....	1.3-1
Ball valve, one-piece, R-thread, PN 64.....	1.3-1

ball valve, three-pieces, weld ends, PN 64



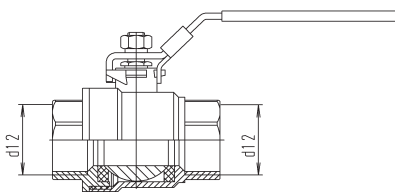
DN	d1	weight (kg)
1/4"	11.6	0,350
3/8"	11.6	0,430
1/2"	14.3	0,520
3/4"	20	0,720
1"	25	1,020
1 1/4"	32	1,720
1 1/2"	38	2,420
2"	50	3,600
2 1/2"	65	7,520
3"	80	10,800
4"	100	21,200

ball valve, three-pieces, R-thread, PN 64



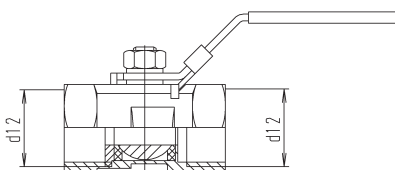
DN	d12	weight (kg)
1/4"	R 1/4"	0,350
3/8"	R 3/8"	0,430
1/2"	R 1/2"	0,560
3/4"	R 3/4"	0,750
1"	R 1"	1,100
1 1/4"	R 1 1/4"	1,740
1 1/2"	R 1 1/2"	2,410
2"	R 2"	3,660
2 1/2"	R 2 1/2"	7,100
3"	R 3"	10,500
4"	R 4"	21,200

ball valve, two-pieces, R-thread, PN 64



DN	d12	weight (kg)
1/4"	R 1/4"	0,150
3/8"	R 3/8"	0,170
1/2"	R 1/2"	0,250
3/4"	R 3/4"	0,410
1"	R 1"	0,600
1 1/4"	R 1 1/4"	1,020
1 1/2"	R 1 1/2"	1,400
2"	R 2"	2,500
2 1/2"	R 2 1/2"	4,820
3"	R 3"	7,600

ball valve, one-piece, R-thread, PN 64



DN	d12	weight (kg)
1/4"	R 1/4"	0,070
3/8"	R 3/8"	0,100
1/2"	R 1/2"	0,160
3/4"	R 3/4"	0,250
1"	R 1"	0,430
1 1/4"	R 1 1/4"	0,700
1 1/2"	R 1 1/2"	0,830
2"	R 2"	1,500

ball valve, three-pieces, weld ends, PN 64

I.4408	
DN	Ident number
1/4"	○ 895.03.620.0051
3/8"	● 895.04.620.0051
1/2"	● 895.06.620.0051
3/4"	● 895.07.620.0051
1"	● 895.08.620.0051
1 1/4"	● 895.09.620.0051
1 1/2"	● 895.10.620.0051
2"	● 895.11.620.0051
2 1/2"	● 895.12.620.0051
3"	○ 895.13.620.0051
4"	○ 895.15.620.0051

ball valve, three-pieces, R-thread, PN 64

I.4408	
DN	Ident number
1/4"	○ 895.03.620.0050
3/8"	○ 895.04.620.0050
1/2"	● 895.06.620.0050
3/4"	● 895.07.620.0050
1"	● 895.08.620.0050
1 1/4"	○ 895.09.620.0050
1 1/2"	○ 895.10.620.0050
2"	○ 895.11.620.0050
2 1/2"	○ 895.12.620.0050
3"	○ 895.13.620.0050
4"	○ 895.15.620.0050

ball valve, two-pieces, R-thread, PN 64

I.4408	
DN	Ident number
1/4"	● 895.03.620.0073
3/8"	○ 895.04.620.0073
1/2"	● 895.06.620.0073
3/4"	● 895.07.620.0073
1"	○ 895.08.620.0073
1 1/4"	● 895.09.620.0073
1 1/2"	○ 895.10.620.0073
2"	○ 895.11.620.0073
2 1/2"	○ 895.12.620.0073
3"	○ 895.13.620.0073

ball valve, one-piece, R-thread, PN 64

I.4408	
DN	Ident number
1/4"	○ 895.03.620.0057
3/8"	○ 895.04.620.0057
1/2"	● 895.06.620.0057
3/4"	● 895.07.620.0057
1"	● 895.08.620.0057
1 1/4"	● 895.09.620.0057
1 1/2"	○ 895.10.620.0057
2"	● 895.11.620.0057

I.4 Single seat valves

I.4 Single seat valves

Technical Information

**This chapter is in progress
And will be hand later right after publication!**

**For further information contact Nocado Central Sales Office or look in our
publications in German Language!**

I.4.1 Shut-off valves

I.4.2 Reversing valves

I.4.3 Other valves

I.4.4 Spare parts

I.4.5 Accessories

I.5 Double seat valves

I.5 Double seat valves

Technical information

**This chapter is in progress
And will be hand later right after publication!**

**For further information contact Nocado Central Sales Office or look in our
publications in German Language!**

I.5.1 Shut-off valves

I.5.2 Shut-off valve leakages free operating

I.5.3 Reversing valves

I.5.4 Other valves

I.5.5 Spare parts

I.5.6 Accessories

I.6 Diaphragm valves with ball housing

Technical Information

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I.6.1 Diaphragm shut-off valves with ball housing	
Technical information	-
Diaphragm shut-off valves with ball housing	I
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I.6.2 Diaphragm adjustable valves with ball housing	
Diaphragm adjusted valves with ball housing	I
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I.6.3 Diaphragm constant pressure- and pressure relief valves with ball housing	
Technical information	-
Diaphragm constant pressure with ball housing	I
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I.6.4 Diaphragm sampling valves with ball housing	
Technical information	-
Diaphragm sampling valves with ball housing	I
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I.6.5 Spare parts for diaphragm valves with ball housing	
Diaphragms	I

I.6 Diaphragm valves with ball housing

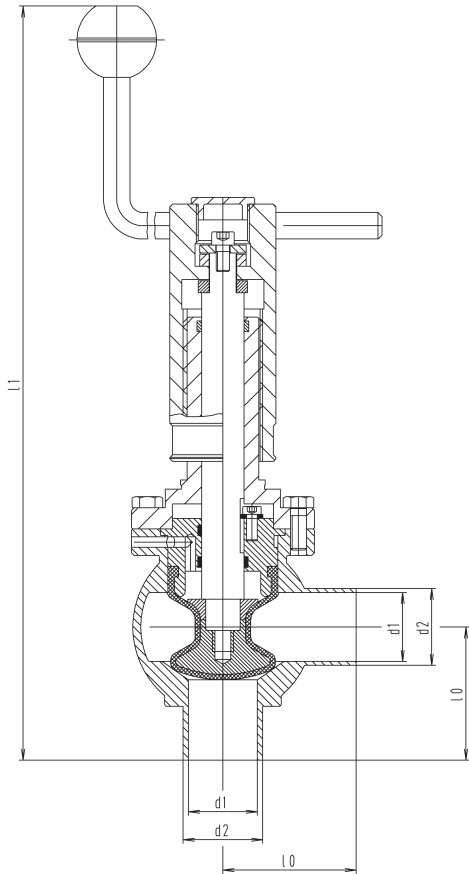
I.6.1 Diaphragm valves with ball housing • Shut-off valves page

Diaphragm shut off valve with ball housing (715H)	1.6.1-1
Diaphragm shut off valve with ball housing, air/spring (NC), (715H).....	1.6.1-1
Diaphragm shut off valve with ball housing, air/spring (NC), with control top (715H).....	1.6.1-3

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diaphragm shut off valve with ball housing (715H)

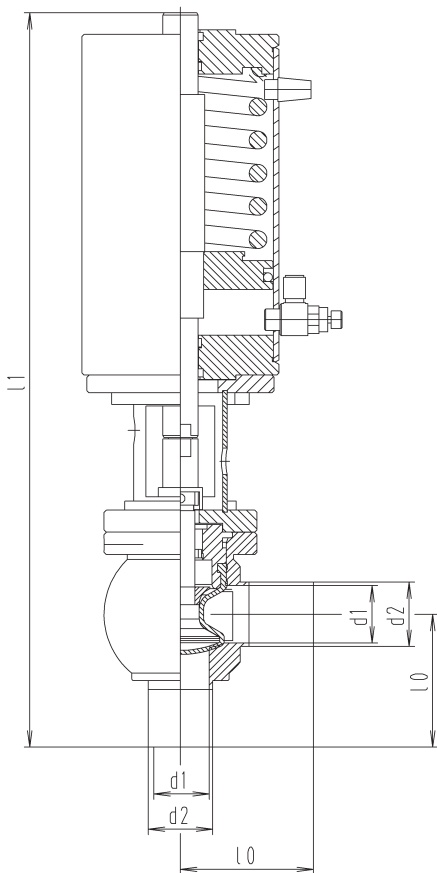
nocaplus



DN	d1	d2	l0	l1	weight (kg)
15	16	19	60	270	4,500
25	26	29	60	270	4,600
40	38	41	75	295	4,700
50	50	53	85	310	5,000
65	66	70	105	335	5,300
80	81	85	130	365	7,100

diaphragm shut off valve with ball housing, air/spring (NC), (715H)

nocaplus



DN	d1	d2	l0	l1	weight (kg)
25	26	29	60	332	-
40	38	41	75	352	-
50	50	53	85	405	-
65	66	70	105	429	-
80	81	85	130	502	-

diaphragm shut off valve with ball housing (715H)

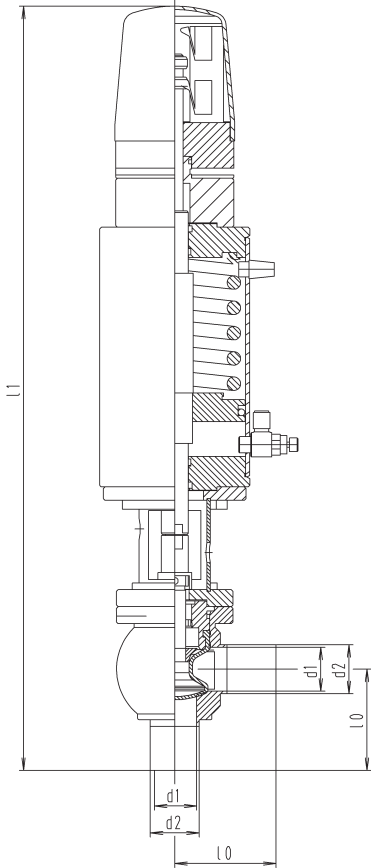
DN	I.4435 EPDM polished Ident number	I.4435 HNBR polished Ident number	I.4435 FPM polished Ident number
15	○ I68.06.K7E.0015	○ I68.06.K7H.0015	○ I68.06.K7V.0015
25	○ I68.08.K7E.0015	○ I68.08.K7H.0015	○ I68.08.K7V.0015
40	○ I68.10.K7E.0015	○ I68.10.K7H.0015	○ I68.10.K7V.0015
50	○ I68.11.K7E.0015	○ I68.11.K7H.0015	○ I68.11.K7V.0015
65	○ I68.12.K7E.0015	○ I68.12.K7H.0015	○ I68.12.K7V.0015
80	○ I68.14.K7E.0015	○ I68.14.K7H.0015	○ I68.14.K7V.0015
gasket EPDM, other material on demand			

diaphragm shut off valve with ball housing, air/spring (NC), (715H)

DN	Standard Ident number	with revert. signal o/c Ident number	ASI-top ASVC 1000-II Ident number	control top ASVC 1000-01 Ident number
25	○ I68.08.K7E.0023	○ I68.08.K7E.0030	○ I68.08.K7E.0031	○ I68.08.K7E.0032
40	○ I68.10.K7E.0023	○ I68.10.K7E.0030	○ I68.10.K7E.0031	○ I68.10.K7E.0032
50	○ I68.11.K7E.0023	○ I68.11.K7E.0030	○ I68.11.K7E.0031	○ I68.11.K7E.0032
65	○ I68.12.K7E.0023	○ I68.12.K7E.0030	○ I68.12.K7E.0031	○ I68.12.K7E.0032
80	○ I68.14.K7E.0023	○ I68.14.K7E.0030	○ I68.14.K7E.0031	○ I68.14.K7E.0032
gasket EPDM, other material on demand				

diaphragm shut off valve with ball housing, air/spring (NC), w. control top (715H)

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DN	d1	d2	l0	l1	weight (kg)
25	26	29	60	454	-
40	38	41	75	474	-
50	50	53	85	527	-
65	66	70	105	551	-
80	81	85	130	624	-

diaphragm shut off valve with ball housing, air/spring (NC), w. control top (715H)

DN	control top SVPI 1001-II.K Ident number	control top SVPI 1001-01.K Ident number	control top SVPI 1001-01.WK Ident number	control top SVPI 1001.II.EX Ident number
25	○ 168.08.K7E.0033	○ 168.08.K7E.0034	○ 168.08.K7E.0035	○ 168.08.K7E.0036
40	○ 168.10.K7E.0033	○ 168.10.K7E.0034	○ 168.10.K7E.0035	○ 168.10.K7E.0036
50	○ 168.11.K7E.0033	○ 168.11.K7E.0034	○ 168.11.K7E.0035	○ 168.11.K7E.0036
65	○ 168.12.K7E.0033	○ 168.12.K7E.0034	○ 168.12.K7E.0035	○ 168.12.K7E.0036
80	○ 168.14.K7E.0033	○ 168.14.K7E.0034	○ 168.14.K7E.0035	○ 168.14.K7E.0036
gasket EPDM, other material on demand				

1.6 Diaphragm valves with ball housing

1.6.2 Diaphragm valves with ball housing • Adjustable valves page

Diaphragm regulating valve with ball housing, manually operated (715R)1.6.2-1

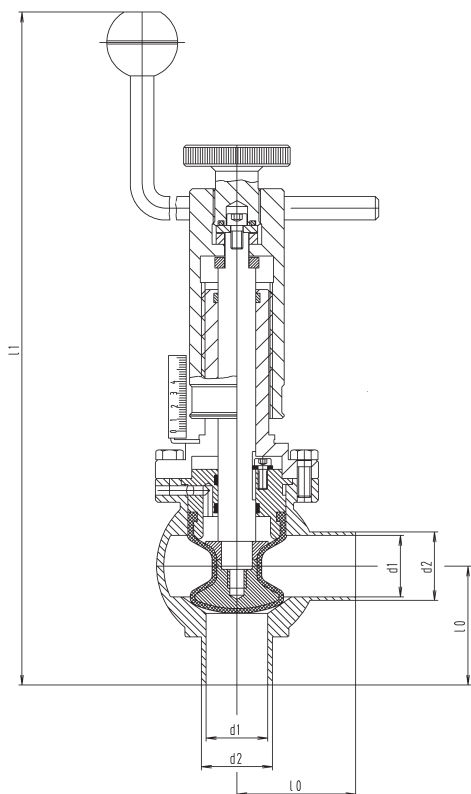
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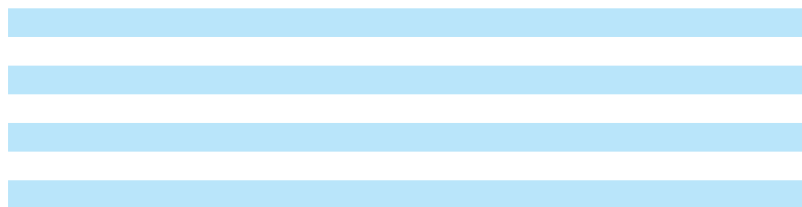
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diaphragm regulating valve with ball housing, manually operated (715R)

nocapius



DN	d1	d2	L0	H	weight (kg)
15	16	19	60	270	4,500
25	26	29	60	270	4,600
40	38	41	75	295	4,700
50	50	53	85	310	5,000
65	66	70	105	335	5,300
80	81	85	130	365	7,100



diaphragm regulating valve with ball housing, manually operated (715R)

DN	I.4435 EPDM polished Ident number	I.4435 HNBR polished Ident number	I.4435 FPM polished Ident number
15	○ I68.06.K7E.0016	○ I68.06.K7H.0016	○ I68.06.K7V.0016
25	○ I68.08.K7E.0016	○ I68.08.K7H.0016	○ I68.08.K7V.0016
40	○ I68.10.K7E.0016	○ I68.10.K7H.0016	○ I68.10.K7V.0016
50	○ I68.11.K7E.0016	○ I68.11.K7H.0016	○ I68.11.K7V.0016
65	○ I68.12.K7E.0016	○ I68.12.K7H.0016	○ I68.12.K7V.0016
80	○ I68.14.K7E.0016	○ I68.14.K7H.0016	○ I68.14.K7V.0016

1.6 Diaphragm valves with ball housing

1.6.3 Diaphragm valves with ball housing • Pressure relief valves page

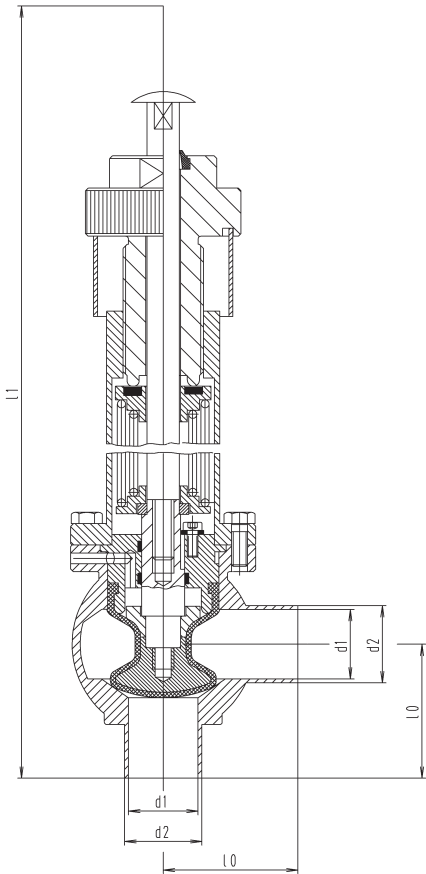
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Diaphragm pressure relief valve, with ball housing (175D)	1.6.3-1
Diaphragm pressure relief valve, with ball housing, with pneumatic operated lifting device (175D).....	1.6.3-1
Diaphragm pressure relief valve, with ball housing, with manually operated lifting device (175D).....	1.6.3-3

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diaphragm pressure relief valve, with ball housing (715D)

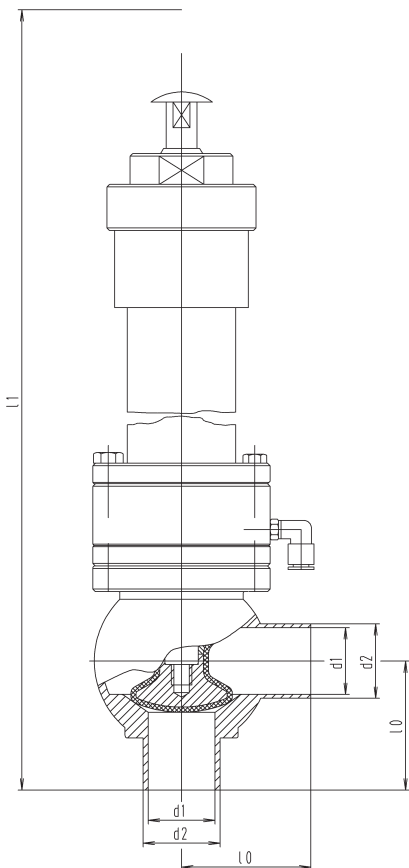
nocaplus



DN	d1	d2	l0	l1	weight (kg)
25	26	29	60	365	4,600
40	38	41	75	450	4,700
50	50	53	85	515	5,000
65	66	70	105	540	5,300
80	81	85	130	670	7,100

diaphragm pressure relief valve, w. ball housing, w. pneu. operated lifting device (715D)

nocaplus



DN	d1	d2	l0	l1	weight (kg)
25	26	29	60	365	5,600
40	38	41	75	400	5,700
50	50	53	85	475	6,800
65	66	70	105	550	7,400

diaphragm pressure relief valve, with ball housing (715D)

DN	I.4435 EPDM polished Ident number	I.4435 HNBR polished Ident number	I.4435 FPM polished Ident number
25	○ I68.08.K7E.0013	○ I68.08.K7H.0013	○ I68.08.K7V.0013
40	○ I68.10.K7E.0013	○ I68.10.K7H.0013	○ I68.10.K7V.0013
50	○ I68.11.K7E.0013	○ I68.11.K7H.0013	○ I68.11.K7V.0013
65	○ I68.12.K7E.0013	○ I68.12.K7H.0013	○ I68.12.K7V.0013
80	○ I68.14.K7E.0013	○ I68.14.K7H.0013	○ I68.14.K7V.0013
* pressure range: 0,5 - 1,0 bar, 0,5 - 2,0 bar, 0,5 - 4,0 bar ** additional price 0,5 - 8,0 bar on request			

diaphragm pressure relief valve, w. ball housing, w. pneu. operated lifting device (715D)

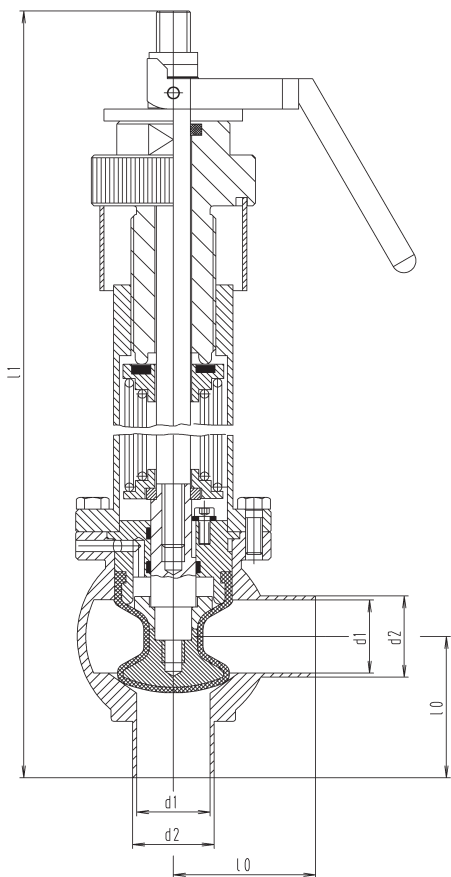
DN	I.4435 EPDM polished * Ident number	I.4435 HNBR polished * Ident number	I.4435 FPM polished * Ident number	I.4435 EPDM polished ** Ident number
25	○ I68.08.K7E.0014	○ I68.08.K7H.0014	○ I68.08.K7V.0014	○ I68.08.K7E.0021
40	○ I68.10.K7E.0014	○ I68.10.K7H.0014	○ I68.10.K7V.0014	○ I68.10.K7E.0021
50	○ I68.11.K7E.0014	○ I68.11.K7H.0014	○ I68.11.K7V.0014	○ I68.11.K7E.0021
65	○ I68.12.K7E.0014	○ I68.12.K7H.0014	○ I68.12.K7V.0014	○ I68.12.K7E.0021
* pressure range: 0,5 - 1,0 bar, 0,5 - 2,0 bar, 0,5 - 4,0 bar ** additional price 0,5 - 8,0 bar on request				

diaphragm pressure relief valve, w. ball housing, w. pneu. operated lifting device (715D)

DN	I.4435 HNBR polished ** Ident number	I.4435 FPM polished ** Ident number
25	○ I68.08.K7H.0021	○ I68.08.K7V.0021
40	○ I68.10.K7H.0021	○ I68.10.K7V.0021
50	○ I68.11.K7H.0021	○ I68.11.K7V.0021
65	○ I68.12.K7H.0021	○ I68.12.K7V.0021
* pressure range: 0,5 - 1,0 bar, 0,5 - 2,0 bar, 0,5 - 4,0 bar ** additional price 0,5 - 8,0 bar on request		

diaphragm pressure relief valve, w. ball housing, w. man. operated lifting device (715D)

nocapius



DN	d1	d2	l0	l1	weight (kg)
25	26	29	60	365	4,600
40	38	41	75	450	4,700
50	50	53	85	515	5,000
65	66	70	105	540	5,300
80	81	85	130	670	7,100

diaphragm pressure relief valve, w. ball housing, w. man. operated lifting device (715D)

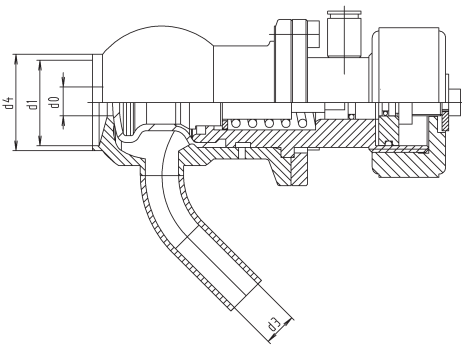
DN	I.4435 EPDM Ident number	I.4435 HNBR Ident number	I.4435 FPM Ident number
25	○ I68.08.K7E.004I	○ I68.08.K7H.004I	○ I68.08.K7V.004I
40	○ I68.10.K7E.004I	○ I68.10.K7H.004I	○ I68.10.K7V.004I
50	○ I68.11.K7E.004I	○ I68.11.K7H.004I	○ I68.11.K7V.004I
65	○ I68.12.K7E.004I	○ I68.12.K7H.004I	○ I68.12.K7V.004I
80	○ I68.14.K7E.004I	○ I68.14.K7H.004I	○ I68.14.K7V.004I

I.6 Diaphragm valves with ball housing

I.6.4 Diaphragm valves with ball housing • Sampling valves	page
Diaphragm sampling valve, one spout, with pneumatic operated lifting device, weld end (711I)	I.6.4-1
Diaphragm sampling valve, two spout, with pneumatic operated lifting device, weld end (711S)	I.6.4-1
Outlet-coil for sampling valve outlet	I.6.4-3
Diaphragm sampling valve, one spout, with operated lifting device, TU connection (711I)	I.6.4-3

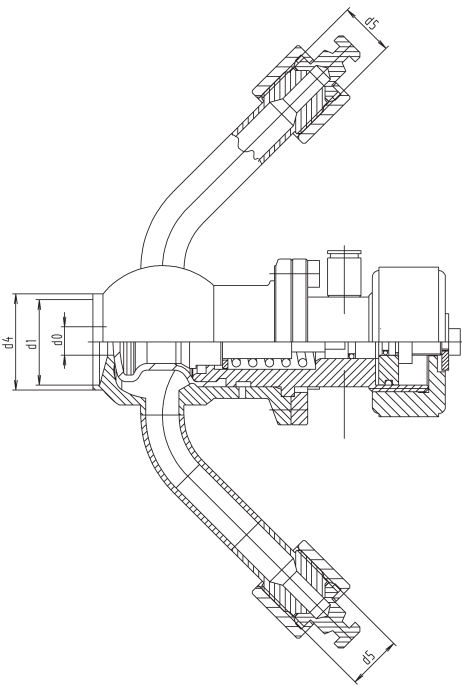
diaphragm sampling valve, one spout, w. pneu. operated lifting device, weld end (7111)

DN	d0	d1	d3	d4	weight (kg)
25	8	26	10	29	-



diaphragm sampling valve, two spouts, w. pneu. operated lifting device, weld end (711S)

DN	d0	d1	d4	d5	weight (kg)
25	8	26	29	R 3/8 "	-



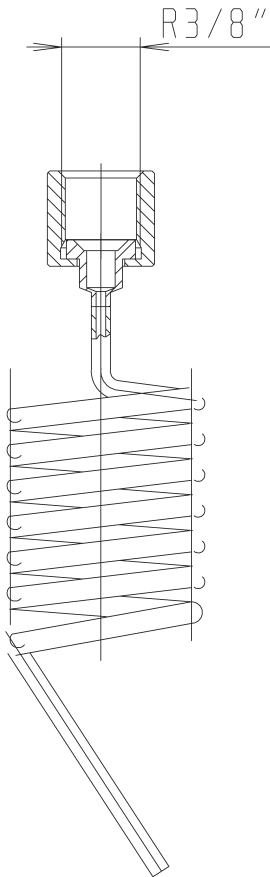
diaphragm sampling valve, one spout, w. pneu. operated lifting device, weld end (711)

DN	man./pneum. actuated Ident number	with steam connection Ident number
25	○ I 69.08.K7E.0333	○ I 69.08.K7E.0334

diaphragm sampling valve, two spouts, w. pneu. operated lifting device, weld end (711S)

DN	I.4435 EPDM Ident number
25	○ I 69.08.K7E.0346

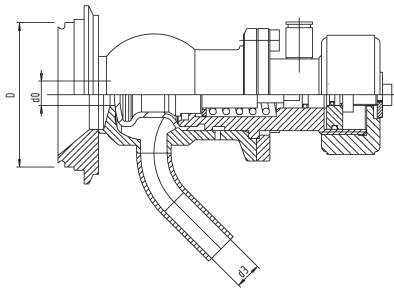
outlet-coil for sampling valve outlet



DN	I.-thread	weight (kg)
3/8"	R 3/8"	0,100

diaphragm sampling valve, one spout, w. pneu. operated lifting device, tu-con. (7111)

nocapius



DN	d	d0	d3	weight (kg)
25	50	8	10	-
40	68	8	10	-

outlet-coil for sampling valve outlet

DN	outlet pipe Ident number	nipple for outlet pipe Ident number
3/8"	○ 169.08.120.0328	○ 321.04.520.0261

diaphragm sampling valve, one spout, w. pneu. operated lifting device, tu-con. (7111)

DN	I.4435 EPDM Ident number	I.4435 HNBR Ident number	I.4435 FPM Ident number
25	○ 169.08.K7E.0345	○ 169.08.K7H.0345	○ 169.08.K7V.0345
40	○ 169.10.K7E.0345	○ 169.10.K7H.0345	○ 169.10.K7V.0345

I.6 Diaphragm valves with ball housing

I.6.5 Diaphragm valves with ball housing • Spare parts

page

Diaphragm.....	I.6.5-1
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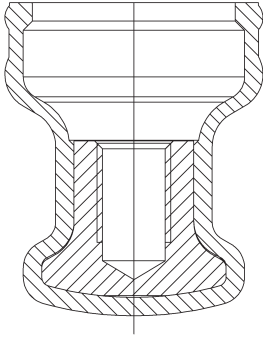
Back

Back

Back

diaphragm

n o c a p l u s



DN	weight (kg)
15	-
25	-
40	-
50	-
65	-
80	-

diaphragm

DN	EPDM Ident number	HNBR Ident number	FPM Ident number
15	○ 828.06.6E0.001 I	○ 828.06.6HN.001 I	○ 828.06.6V0.001 I
25	○ 828.08.6E0.001 I	○ 828.08.6HN.001 I	○ 828.08.6V0.001 I
40	○ 828.10.6E0.001 I	○ 828.10.6HN.001 I	○ 828.10.6V0.001 I
50	○ 828.11.6E0.001 I	○ 828.11.6HN.001 I	○ 828.11.6V0.001 I
65	○ 828.12.6E0.001 I	○ 828.12.6HN.001 I	○ 828.12.6V0.001 I
80	○ 828.14.6E0.001 I	○ 828.14.6HN.001 I	○ 828.14.6V0.001 I

1.7 Diaphragm shut-off valves

1.7.1 Diaphragm shut-off valves • Kidney shape page

Technical information

Diaphragm shut-off valves, kidney shape welding ends (for tubing according to DIN 11850 line 2).....	1
Diaphragm shut-off valves, kidney shape welding ends (for tubing according to ISO 1127)	3
Diaphragm shut-off valves, kidney shape welding ends (for tubing according to OD ASME BPE).....	5
Diaphragm shut-off valves, kidney shape c/c (for tubing according to DIN 11850 line 2).....	7
Diaphragm shut-off valves, kidney shape c/c (for tubing according to ISO 1127).....	9
Diaphragm shut-off valves, kidney shape c/c (for tubing according to OD ASME BPE).....	11

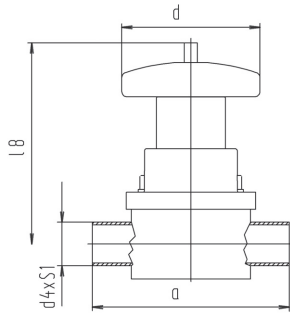
1.7.4 Spare parts for diaphragm shut-off valves, kidney shape

Diaphragm EPDM	1
Diaphragm PTFE/EPDM bonded	1
Diaphragm PTFE/EPDM 2-piece	1

1.7.5 Attachments for diaphragm shut-off valves, kidney shape page

Handle plastic	1
Handle plastic with proximity switch	1
Pneumatic actuator - plastic	1
Pneumatic actuator – stainless steel	1
Control head	3
Control head - ASI	3

diaphragm shut-off valves, kidney shape weld. ends (for tubing acc. DIN 11850 line 2)



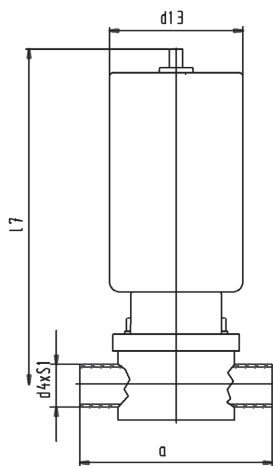
DN	MG	d4 x s1	d	a	l8	weight (kg)
6	32	8x1.0	40	72	60	0,40
8	32	10x1.0	40	72	60	0,40
10	32	13x1.5	40	72	60	0,40
15	46	19x1.5	60	108	86	0,50
20	58	23x1.5	60	108	94	0,90
25	67	29x1.5	80	120	117	1,90
32	82	35x1.5	100	153	154	2,50
40	90	41x1.5	100	153	162	3,79
50	108	53x1.5	125	173	181	4,60
65	132	70x2.0	200	216	259	-
80	158	85x2.0	200	254	285	-
100	226	104x2.0	200	305	362	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d	a	l8	weight (kg)
6	32	8x1.0	40	72	60	0,40
8	32	10x1.0	40	72	60	0,40
10	32	13x1.5	40	72	60	0,40
15	46	19x1.5	60	108	86	0,50
20	67	23x1.5	60	120	117	1,90
25	67	29x1.5	80	120	117	1,90
32	90	35x1.5	100	153	162	3,70
40	90	41x1.5	100	153	162	3,70
50	108	53x1.5	125	173	181	4,60

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape weld. ends a/s (for tubing acc. DIN 11850 line 2)



DN	MG	d4 x s1	d13	a	l7	weight (kg)
6	32	8x1.0	45	72	102	0,70
8	32	10x1.0	45	72	102	0,70
10	32	13x1.5	45	72	102	0,70
15	46	19x1.5	65	108	134	1,00
20	58	23x1.5	65	120	178	1,60
25	67	29x1.5	80	120	198	2,90
32	82	35x1.5	100	153	225	4,10
40	90	41x1.5	100	153	232	5,30
50	108	53x1.5	120	173	302	8,80
65	132	70x2.0	210	216	424	-
80	158	85x2.0	290	254	614	-
100	226	104x2.0	290	305	702	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d13	a	l7	weight (kg)
6	32	8x1.0	45	72	102	0,70
8	32	10x1.0	45	72	102	0,70
10	32	13x1.5	45	72	102	0,70
15	46	19x1.5	65	108	134	1,00
20	67	23x1.5	79	120	198	2,90
25	67	29x1.5	79	120	198	2,90
32	90	35x1.5	100	153	232	5,30
40	90	41x1.5	100	153	232	5,30
50	108	53x1.5	120	173	302	8,80

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape weld. ends
 (for tubing acc. DIN 11850 line 2)

DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.02.67E.0040	○	I 68.02.67Y.0040	-	-
8	○	I 68.03.67E.0040	○	I 68.03.67Y.0040	-	-
10	○	I 68.04.67E.0040	○	I 68.04.67Y.0040	-	-
15	○	I 68.06.67E.0040	-	-	○	I 68.06.67T.0040
20	○	I 68.07.67E.0040	-	-	○	I 68.07.67T.0040
25	○	I 68.08.67E.0040	-	-	○	I 68.08.67T.0040
32	○	I 68.09.67E.0040	-	-	○	I 68.09.67T.0040
40	○	I 68.10.67E.0040	-	-	○	I 68.10.67T.0040
50	○	I 68.11.67E.0040	-	-	○	I 68.11.67T.0040
65	○	I 68.12.67E.0040	-	-	○	I 68.12.67T.0040
80	○	I 68.14.67E.0040	-	-	○	I 68.14.67T.0040
100	○	I 68.15.67E.0040	-	-	○	I 68.15.67T.0040

housing frogging-body , Ra <= 0.8 μm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.02.67E.0090	○	I 68.02.67Y.0090	-	-
8	○	I 68.03.67E.0090	○	I 68.03.67Y.0090	-	-
10	○	I 68.04.67E.0090	○	I 68.04.67Y.0090	-	-
15	○	I 68.06.67E.0090	-	-	○	I 68.06.67T.0090
20	○	I 68.07.67E.0090	-	-	○	I 68.07.67T.0090
25	○	I 68.08.67E.0090	-	-	○	I 68.08.67T.0090
32	○	I 68.09.67E.0090	-	-	○	I 68.09.67T.0090
40	○	I 68.10.67E.0090	-	-	○	I 68.10.67T.0090
50	○	I 68.11.67E.0090	-	-	○	I 68.11.67T.0090

housing fine cast steel - body, Ra <= 0.8 μm, versions with reduced cross section on request

 diaphragm shut-off valves, kidney shape weld. ends
 a/s (for tubing acc. DIN 11850 line 2)

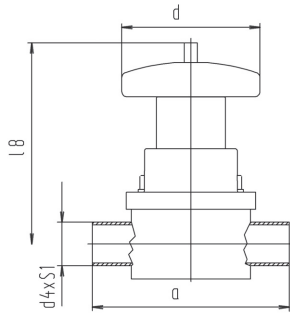
DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.02.67E.0042	○	I 68.02.67Y.0042	-	-
8	○	I 68.03.67E.0042	○	I 68.03.67Y.0042	-	-
10	○	I 68.04.67E.0042	○	I 68.04.67Y.0042	-	-
15	○	I 68.06.67E.0042	-	-	○	I 68.06.67T.0042
20	○	I 68.07.67E.0042	-	-	○	I 68.07.67T.0042
25	○	I 68.08.67E.0042	-	-	○	I 68.08.67T.0042
32	○	I 68.09.67E.0042	-	-	○	I 68.09.67T.0042
40	○	I 68.10.67E.0042	-	-	○	I 68.10.67T.0042
50	○	I 68.11.67E.0042	-	-	○	I 68.11.67T.0042
65	○	I 68.12.67E.0042	-	-	○	I 68.12.67T.0042
80	○	I 68.14.67E.0042	-	-	○	I 68.14.67T.0042
100	○	I 68.15.67E.0042	-	-	○	I 68.15.67T.0042

housing frogging-body , Ra <= 0.8 μm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.02.67E.0092	○	I 68.02.67Y.0092	-	-
8	○	I 68.03.67E.0092	○	I 68.03.67Y.0092	-	-
10	○	I 68.04.67E.0092	○	I 68.04.67Y.0092	-	-
15	○	I 68.06.67E.0092	-	-	○	I 68.06.67T.0092
20	○	I 68.07.67E.0092	-	-	○	I 68.07.67T.0092
25	○	I 68.08.67E.0092	-	-	○	I 68.08.67T.0092
32	○	I 68.09.67E.0092	-	-	○	I 68.09.67T.0092
40	○	I 68.10.67E.0092	-	-	○	I 68.10.67T.0092
50	○	I 68.11.67E.0092	-	-	○	I 68.11.67T.0092

housing fine cast steel - body, Ra <= 0.8 μm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape weld. ends (for tubing acc. ISO 1127)



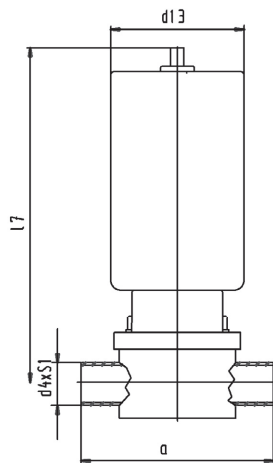
DN	MG	d4 x s1	d	a	l8	weight (kg)
6	32	10.2x1.6	40	72	60	0,40
8	32	13.5x1.6	40	72	60	0,40
10	46	17.2x1.6	60	108	86	0,50
15	46	21.3x1.6	60	108	86	0,50
20	58	26.9x1.6	60	120	94	0,50
25	67	33.7x2.0	80	120	117	0,90
32	82	42.4x2.0	100	153	154	1,90
40	90	48.3x2.0	100	153	162	2,50
50	108	60.3x2.0	125	173	181	3,70
65	132	76.1x2.0	200	216	259	4,60
80	158	88.9x2.3	200	254	285	-
100	226	114x2.3	200	305	362	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d	a	l8	weight (kg)
6	32	10.2x1.6	40	72	60	0,40
8	32	13.5x1.6	40	72	60	0,40
10	46	17.2x1.6	60	108	86	0,50
15	46	21.3x1.6	60	108	86	0,50
20	58	26.9x1.6	60	120	94	0,90
25	67	33.7x2.0	80	120	117	1,90
32	82	42.4x2.0	100	120	154	2,50
40	90	48.3x2.0	100	153	162	3,70
50	108	60.3x2.0	125	173	181	4,60

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape weld. ends a/s (for tubing acc. ISO 1127)



DN	MG	d4 x s1	d13	a	l7	weight (kg)
6	32	10.2x1.6	45	72	102	0,70
8	32	13.5x1.6	45	72	102	0,70
10	46	17.2x1.6	65	108	134	1,00
15	46	21.3x1.6	65	108	134	1,00
20	58	26.9x1.6	65	120	178	1,60
25	67	33.7x2.0	79	120	198	2,90
32	82	42.4x2.0	100	153	225	4,10
40	90	48.3x2.0	100	153	232	5,30
50	108	60.3x2.0	120	173	302	8,80
65	132	76.1x2.0	210	216	424	-
80	158	88.9x2.3	290	254	614	-
100	226	114x2.3	290	305	702	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d13	a	l7	weight (kg)
6	32	10.2x1.6	45	72	102	0,70
8	32	13.5x1.6	45	72	102	0,70
10	46	17.2x1.6	65	108	134	1,00
15	46	21.3x1.6	65	108	134	1,00
20	58	26.9x1.6	65	120	178	1,60
25	67	33.7x2.0	79	120	198	2,90
32	82	42.4x2.0	100	153	225	4,10
40	90	48.3x2.0	100	153	232	5,30
50	108	60.3x2.0	120	173	302	8,80

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape weld. ends (for tubing acc. ISO 1127)

DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.03.67E.0043	○	I 68.03.67Y.0043	-	-
8	○	I 68.04.67E.0043	○	I 68.04.67Y.0043	-	-
10	○	I 68.05.67E.0043	○	I 68.05.67Y.0043	-	-
15	○	I 68.06.67E.0043	-	-	○	I 68.06.67T.0043
20	○	I 68.07.67E.0043	-	-	○	I 68.07.67T.0043
25	○	I 68.08.67E.0043	-	-	○	I 68.08.67T.0043
32	○	I 68.09.67E.0043	-	-	○	I 68.09.67T.0043
40	○	I 68.10.67E.0043	-	-	○	I 68.10.67T.0043
50	○	I 68.11.67E.0043	-	-	○	I 68.11.67T.0043
65	○	I 68.12.67E.0043	-	-	○	I 68.12.67T.0043
80	○	I 68.14.67E.0043	-	-	○	I 68.14.67T.0043
100	○	I 68.15.67E.0043	-	-	○	I 68.15.67T.0043

housing frogging-body , Ra <= 0.8 μm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.03.67E.0093	○	I 68.03.67Y.0093	-	-
8	○	I 68.04.67E.0093	○	I 68.04.67Y.0093	-	-
10	○	I 68.05.67E.0093	○	I 68.05.67Y.0093	-	-
15	○	I 68.06.67E.0093	-	-	○	I 68.06.67T.0093
20	○	I 68.07.67E.0093	-	-	○	I 68.07.67T.0093
25	○	I 68.08.67E.0093	-	-	○	I 68.08.67T.0093
32	○	I 68.09.67E.0093	-	-	○	I 68.10.67T.0093
40	○	I 68.10.67E.0093	-	-	○	I 68.10.67T.0093
50	○	I 68.11.67E.0093	-	-	○	I 68.11.67T.0093

housing fine cast steel - body, Ra <= 0.8 μm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape weld. ends a/s (for tubing acc. ISO 1127)

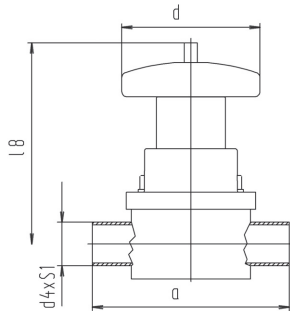
DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.03.67E.0044	○	I 68.03.67Y.0044	-	-
8	○	I 68.04.67E.0044	○	I 68.04.67Y.0044	-	-
10	○	I 68.05.67E.0044	○	I 68.05.67Y.0044	-	-
15	○	I 68.06.67E.0044	-	-	○	I 68.06.67T.0044
20	○	I 68.07.67E.0044	-	-	○	I 68.07.67T.0044
25	○	I 68.08.67E.0044	-	-	○	I 68.08.67T.0044
32	○	I 68.09.67E.0044	-	-	○	I 68.09.67T.0044
40	○	I 68.10.67E.0044	-	-	○	I 68.10.67T.0044
50	○	I 68.11.67E.0044	-	-	○	I 68.11.67T.0044
65	○	I 68.12.67E.0044	-	-	○	I 68.12.67T.0044
80	○	I 68.14.67E.0044	-	-	○	I 68.14.67T.0044
100	○	I 68.15.67E.0044	-	-	○	I 68.15.67T.0044

housing frogging-body , Ra <= 0.8 μm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.03.67E.0094	○	I 68.03.67Y.0094	-	-
8	○	I 68.04.67E.0094	○	I 68.04.67Y.0094	-	-
10	○	I 68.05.67E.0094	○	I 68.05.67Y.0094	-	-
15	○	I 68.06.67E.0094	-	-	○	I 68.06.67T.0094
20	○	I 68.07.67E.0094	-	-	○	I 68.07.67T.0094
25	○	I 68.08.67E.0094	-	-	○	I 68.08.67T.0094
32	○	I 68.09.67E.0094	-	-	○	I 68.10.67T.0094
40	○	I 68.10.67E.0094	-	-	○	I 68.10.67T.0094
50	○	I 68.11.67E.0094	-	-	○	I 68.11.67T.0094

housing fine cast steel - body, Ra <= 0.8 μm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape weld. ends (for tubing acc. OD ASME BPE)



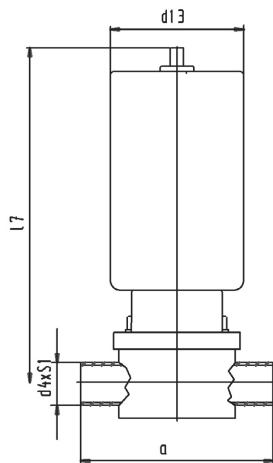
DN	MG	d4 x s1	d	a	l8	weight (kg)
1/4"	32	6.35x0.89	40	72	60	0,40
3/8"	32	9.53x0.89	40	72	60	0,40
1/2"	46	12.7x1.65	60	108	86	0,50
3/4"	58	19.05x1.65	60	120	94	0,90
1"	67	25.4x1.65	80	120	117	1,90
1 1/2"	90	38.1x1.65	100	153	162	3,70
2"	108	50.8x1.65	125	173	181	4,60
2 1/2"	132	63.5x1.65	200	216	259	-
3"	158	76.2x1.65	200	254	285	-
4"	226	102x2.11	200	305	-	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d	a	l8	weight (kg)
1/4"	32	6.35x0.89	40	72	60	0,40
3/8"	32	9.53x0.89	40	72	60	0,40
1/2"	32	12.7x1.65	40	72	60	0,40
3/4"	58	19.05x1.65	60	108	86	0,50
1"	67	25.4x1.65	80	120	117	1,90
1 1/2"	90	38.1x1.65	100	153	162	3,70
2"	108	50.8x1.65	125	173	181	4,60

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape weld. ends a/s (for tubing acc. OD ASME BPE)



DN	MG	d4 x s1	d13	a	l7	weight (kg)
1/4"	32	6.35x0.89	45	72	102	0,70
3/8"	32	9.53x0.89	45	72	102	0,70
1/2"	46	12.7x1.65	65	108	134	1,00
3/4"	58	19.05x1.65	65	120	120	1,60
1"	67	25.4x1.65	79	120	120	2,90
1 1/2"	90	38.1x1.65	100	153	153	5,30
2"	108	50.8x1.65	120	173	173	8,80
2 1/2"	132	63.5x1.65	210	216	216	-
3"	158	76.2x1.65	290	254	254	-
4"	226	102x2.11	290	305	305	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d13	a	l7	weight (kg)
1/4"	32	6.35x0.89	45	72	102	0,70
3/8"	32	9.53x0.89	45	72	102	0,70
1/2"	32	12.7x1.65	45	72	102	0,70
3/4"	46	19.05x1.65	65	120	134	1,00
1"	67	25.4x1.65	79	120	198	2,90
1 1/2"	90	38.1x1.65	100	153	232	5,30
2"	108	50.8x1.65	120	173	302	8,80

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape weld. ends
(for tubing acc. OD ASME BPE)

DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
1/4"	○	I 68.03.67E.0045	○	I 68.03.67Y.0045	-	-
3/8"	○	I 68.04.67E.0045	○	I 68.04.67Y.0045	-	-
1/2"	○	I 68.06.67E.0045	-	-	○	I 68.06.67T.0045
3/4"	○	I 68.07.67E.0045	-	-	○	I 68.07.67T.0045
1"	○	I 68.08.67E.0045	-	-	○	I 68.08.67T.0045
1 1/2"	○	I 68.10.67E.0045	-	-	○	I 68.10.67T.0045
2"	○	I 68.11.67E.0045	-	-	○	I 68.11.67T.0045
2 1/2"	○	I 68.12.67E.0045	-	-	○	I 68.12.67T.0045
3"	○	I 68.13.67E.0045	-	-	○	I 68.13.67T.0045
4"	○	I 68.15.67E.0045	-	-	○	I 68.15.67T.0045

housing frogging-body , Ra <= 0.8 µm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
1/4"	○	I 68.03.67E.0095	○	I 68.03.67Y.0095	-	-
3/8"	○	I 68.04.67E.0095	○	I 68.04.67Y.0095	-	-
1/2"	○	I 68.06.67E.0095	-	-	○	I 68.07.67T.0095
3/4"	○	I 68.07.67E.0095	-	-	○	I 68.07.67T.0095
1"	○	I 68.08.67E.0095	-	-	○	I 68.08.67T.0095
1 1/2"	○	I 68.10.67E.0095	-	-	○	I 68.10.67T.0095
2"	○	I 68.11.67E.0095	-	-	○	I 68.11.67T.0095

housing fine cast steel - body, Ra <= 0.8 µm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape weld. ends
a/s (for tubing acc. OD ASME BPE)

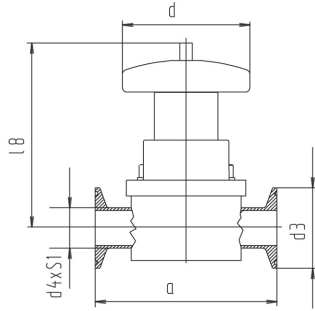
DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
1/4"	○	I 68.03.67E.0046	○	I 68.03.67Y.0046	-	-
3/8"	○	I 68.04.67E.0046	○	I 68.04.67Y.0046	-	-
1/2"	○	I 68.06.67E.0046	-	-	○	I 68.06.67T.0046
3/4"	○	I 68.07.67E.0046	-	-	○	I 68.07.67T.0046
1"	○	I 68.08.67E.0046	-	-	○	I 68.08.67T.0046
1 1/2"	○	I 68.10.67E.0046	-	-	○	I 68.10.67T.0046
2"	○	I 68.11.67E.0046	-	-	○	I 68.11.67T.0046
2 1/2"	○	I 68.12.67E.0046	-	-	○	I 68.12.67T.0046
3"	○	I 68.13.67E.0046	-	-	○	I 68.13.67T.0046
4"	○	I 68.15.67E.0046	-	-	○	I 68.15.67T.0046

housing frogging-body , Ra <= 0.8 µm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
1/4"	○	I 68.03.67E.0096	○	I 68.03.67Y.0096	-	-
3/8"	○	I 68.04.67E.0096	○	I 68.04.67Y.0096	-	-
1/2"	○	I 68.06.67E.0096	-	-	○	I 68.06.67T.0096
3/4"	○	I 68.07.67E.0096	-	-	○	I 68.07.67T.0096
1"	○	I 68.08.67E.0096	-	-	○	I 68.08.67T.0096
1 1/2"	○	I 68.10.67E.0096	-	-	○	I 68.10.67T.0096
2"	○	I 68.11.67E.0096	-	-	○	I 68.11.67T.0096

housing fine cast steel - body, Ra <= 0.8 µm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape c/c (for tubing acc. DIN 11850 line 2)



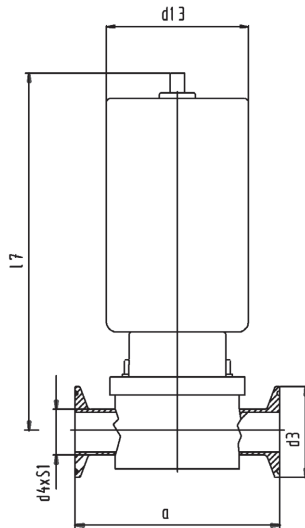
DN	MG	d4 x s1	d	a	l8	d3	weight (kg)
6	32	8x1.0	40	63,5	60	25,2	0,40
8	32	10x1.0	40	63,5	60	25,2	0,40
10	32	13x1.5	40	63,5	60	25,2	0,40
15	46	19x1.5	60	108	86	25,2	0,50
20	58	23x1.5	60	120	94	34	0,90
25	67	29x1.5	80	120	117	50,5	1,90
32	82	35x1.5	100	153	154	50,5	2,50
40	90	41x1.5	100	153	162	50,5	3,70
50	108	53x1.5	125	173	181	64	4,60
65	132	70x2.0	200	216	259	91	-
80	158	85x2.0	200	254	285	106	-
100	226	104x2.0	200	305	362	119	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d	a	l8	d3	weight (kg)
6	32	8x1.0	40	-	60	25,2	0,40
8	32	10x1.0	40	-	60	25,2	0,40
10	32	13x1.5	40	-	60	25,2	0,40
15	46	19x1.5	60	-	86	25,2	0,50
20	67	23x1.5	80	-	117	34	0,90
25	67	29x1.5	80	-	117	50,5	1,90
32	90	35x1.5	100	-	154	50,5	2,50
40	90	41x1.5	100	-	162	50,5	3,70
50	108	53x1.5	125	-	181	64	4,60

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape c/c, a/s (for tubing acc. DIN 11850 line 2)



DN	MG	d4 x s1	d13	a	l7	d3	weight (kg)
6	32	8x1.0	45	63,5	102	25,2	0,70
8	32	10x1.0	45	63,5	102	25,2	0,70
10	32	13x1.5	45	63,5	102	25,2	0,70
15	46	19x1.5	65	108	134	25,2	1,00
20	58	23x1.5	65	120	178	34	1,60
25	67	29x1.5	79	120	198	50,5	2,90
32	82	35x1.5	100	153	225	50,5	4,10
40	90	41x1.5	100	153	232	50,5	5,30
50	108	53x1.5	120	173	302	64	8,80
65	132	70x2.0	210	216	424	91	-
80	158	85x2.0	290	254	614	106	-
100	226	104x2.0	290	305	702	119	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d13	a	l7	d3	weight (kg)
6	32	8x1.0	45	-	102	25,2	0,70
8	32	10x1.0	45	-	102	25,2	0,70
10	32	13x1.5	45	-	102	25,2	0,70
15	46	19x1.5	65	-	134	25,2	1,00
20	67	23x1.5	65	-	198	34	1,60
25	67	29x1.5	79	-	198	50,5	2,90
32	90	35x1.5	100	-	225	50,5	4,10
40	90	41x1.5	100	-	232	50,5	5,30
50	108	53x1.5	120	-	302	64	8,80

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape c/c (for tubing acc. DIN 11850 line 2)

DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 TFM/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.02.67E.0053	○	I 68.02.67Y.0053	-	-
8	○	I 68.03.67E.0053	○	I 68.03.67Y.0053	-	-
10	○	I 68.04.67E.0053	○	I 68.04.67Y.0053	-	-
15	○	I 68.06.67E.0053	-	-	○	I 68.06.67T.0053
20	○	I 68.07.67E.0053	-	-	○	I 68.07.67T.0053
25	○	I 68.08.67E.0053	-	-	○	I 68.08.67T.0053
32	○	I 68.09.67E.0053	-	-	○	I 68.09.67T.0053
40	○	I 68.10.67E.0053	-	-	○	I 68.10.67T.0053
50	○	I 68.11.67E.0053	-	-	○	I 68.11.67T.0053
65	○	I 68.12.67E.0053	-	-	○	I 68.12.67T.0053
80	○	I 68.14.67E.0053	-	-	○	I 68.14.67T.0053
100	○	I 68.15.67E.0053	-	-	○	I 68.15.67T.0053

housing frogging-body , Ra <= 0.8 µm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.02.67E.0103	○	I 68.02.67Y.0103	-	-
8	○	I 68.03.67E.0103	○	I 68.03.67Y.0103	-	-
10	○	I 68.04.67E.0103	○	I 68.04.67Y.0103	-	-
15	○	I 68.06.67E.0103	-	-	○	I 68.06.67T.0103
20	○	I 68.07.67E.0103	-	-	○	I 68.07.67T.0103
25	○	I 68.08.67E.0103	-	-	○	I 68.08.67T.0103
32	○	I 68.09.67E.0103	-	-	○	I 68.09.67T.0103
40	○	I 68.10.67E.0103	-	-	○	I 68.10.67T.0103
50	○	I 68.11.67E.0103	-	-	○	I 68.11.67T.0103

housing fine cast steel - body, Ra <= 0.8 µm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape c/c, a/s (for tubing acc. DIN 11850 line 2)

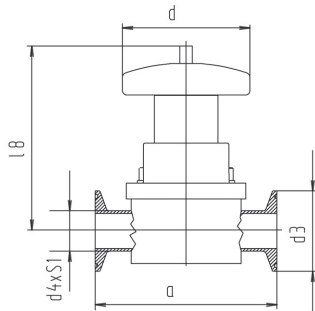
DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.02.67E.0054	○	I 68.02.67Y.0054	-	-
8	○	I 68.03.67E.0054	○	I 68.03.67Y.0054	-	-
10	○	I 68.04.67E.0054	○	I 68.04.67Y.0054	-	-
15	○	I 68.06.67E.0054	-	-	○	I 68.06.67T.0054
20	○	I 68.07.67E.0054	-	-	○	I 68.07.67T.0054
25	○	I 68.08.67E.0054	-	-	○	I 68.08.67T.0054
32	○	I 68.09.67E.0054	-	-	○	I 68.09.67T.0054
40	○	I 68.10.67E.0054	-	-	○	I 68.10.67T.0054
50	○	I 68.11.67E.0054	-	-	○	I 68.11.67T.0054
65	○	I 68.12.67E.0054	-	-	-	-
80	○	I 68.14.67E.0054	-	-	-	-
100	○	I 68.15.67E.0054	-	-	-	-

housing frogging-body , Ra <= 0.8 µm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.02.67E.0104	○	I 68.02.67Y.0104	-	-
8	○	I 68.03.67E.0104	○	I 68.03.67Y.0104	-	-
10	○	I 68.04.67E.0104	○	I 68.04.67Y.0104	-	-
15	○	I 68.06.67E.0104	-	-	○	I 68.06.67T.0104
20	○	I 68.07.67E.0104	-	-	○	I 68.07.67T.0104
25	○	I 68.08.67E.0104	-	-	○	I 68.08.67T.0104
32	○	I 68.09.67E.0104	-	-	○	I 68.09.67T.0104
40	○	I 68.10.67E.0104	-	-	○	I 68.10.67T.0104
50	○	I 68.11.67E.0104	-	-	○	I 68.11.67T.0104

housing fine cast steel - body, Ra <= 0.8 µm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape c/c (for tubing acc. ISO 1127)



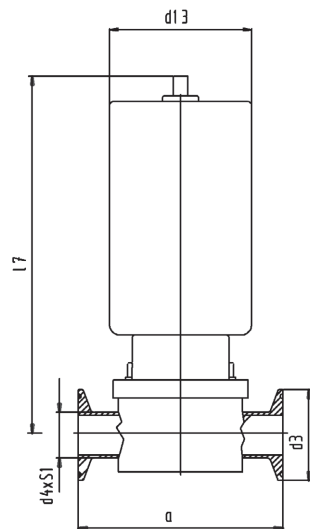
DN	MG	d4 x s1	d	a	l8	d3	weight (kg)
6	32	10.2x1.6	40	63,5	60	25.2	0,40
8	32	13.5x1.6	40	63,5	60	25.2	0,40
10	46	17.2x1.6	60	108	86	25.2	0,50
15	46	21.3x1.6	60	108	86	50.5	0,50
20	58	26.9x1.6	60	120	94	50.5	0,50
25	67	33.7x2.0	80	120	117	50.5	0,90
32	82	42.4x2.0	100	153	154	50.5	1,90
40	90	48.3x2.0	100	153	162	64	2,50
50	108	60.3x2.0	125	173	181	77.5	3,70
65	132	76.1x2.0	200	216	259	91	-
80	158	88.9x2.3	200	254	285	106	-
100	226	114x2.3	200	305	362	130	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d	a	l8	d3	weight (kg)
6	32	10.2x1.6	40	-	60	25.2	0,40
8	32	13.5x1.6	40	-	60	25.2	0,40
10	46	17.2x1.6	60	-	86	25.2	0,50
15	46	21.3x1.6	60	-	86	50.5	0,50
20	58	26.9x1.6	60	-	94	50.5	0,90
25	67	33.7x2.0	80	-	117	50.5	1,90
32	82	42.4x2.0	100	-	154	50.5	2,50
40	90	48.3x2.0	100	-	162	64	3,70
50	108	60.3x2.0	125	-	181	77.5	4,60

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape c/c, a/s (for tubing acc. ISO 1127)



DN	MG	d4 x s1	d13	a	l7	d3	weight (kg)
6	32	10.2x1.6	45	63,5	102	25.2	0,70
8	32	13.5x1.6	45	63,5	102	25.2	0,70
10	46	17.2x1.6	65	108	134	25.2	1,00
15	46	21.3x1.6	65	108	134	50.5	1,00
20	58	26.9x1.6	65	120	178	50.5	1,60
25	67	33.7x2.0	79	120	198	50.5	2,90
32	82	42.4x2.0	100	153	225	50.5	4,10
40	90	48.3x2.0	100	153	232	64	5,30
50	108	60.3x2.0	120	173	302	77.5	8,80
65	132	76.1x2.0	210	216	424	91	-
80	158	88.9x2.3	290	254	614	106	-
100	226	114x2.3	290	305	702	130	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d13	a	l7	d3	weight (kg)
6	32	10.2x1.6	45	-	102	25.2	0,70
8	32	13.5x1.6	45	-	102	25.2	0,70
10	46	17.2x1.6	65	-	134	25.2	1,00
15	46	21.3x1.6	65	-	134	50.5	1,00
20	58	26.9x1.6	65	-	178	50.5	1,60
25	67	33.7x2.0	79	-	198	50.5	2,90
32	82	42.4x2.0	100	-	225	50.5	4,10
40	90	48.3x2.0	100	-	232	64	5,30
50	108	60.3x2.0	120	-	302	77.5	8,80

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape c/c (for tubing acc. ISO 1127)

DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.02.67E.0055	○	I 68.02.67Y.0055	-	-
8	○	I 68.03.67E.0055	○	I 68.03.67Y.0055	-	-
10	○	I 68.05.67E.0055	○	I 68.05.67Y.0055	-	-
15	○	I 68.06.67E.0055	-	-	○	I 68.06.67T.0055
20	○	I 68.07.67E.0055	-	-	○	I 68.07.67T.0055
25	○	I 68.08.67E.0055	-	-	○	I 68.08.67T.0055
32	○	I 68.09.67E.0055	-	-	○	I 68.09.67T.0055
40	○	I 68.10.67E.0055	-	-	○	I 68.10.67T.0055
50	○	I 68.11.67E.0055	-	-	○	I 68.11.67T.0055
65	○	I 68.12.67E.0055	-	-	○	I 68.12.67T.0055
80	○	I 68.14.67E.0055	-	-	○	I 68.14.67T.0055
100	○	I 68.15.67E.0055	-	-	○	I 68.15.67T.0055

housing frogging-body , Ra <= 0.8 µm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.03.67E.0105	○	I 68.03.67Y.0105	-	-
8	○	I 68.04.67E.0105	○	I 68.04.67Y.0105	-	-
10	○	I 68.05.67E.0105	○	I 68.05.67Y.0105	-	-
15	○	I 68.06.67E.0105	-	-	○	I 68.06.67T.0105
20	○	I 68.07.67E.0105	-	-	○	I 68.07.67T.0105
25	○	I 68.08.67E.0105	-	-	○	I 68.08.67T.0105
32	○	I 68.09.67E.0105	-	-	○	I 68.10.67T.0105
40	○	I 68.10.67E.0105	-	-	○	I 68.10.67T.0105
50	○	I 68.11.67E.0105	-	-	○	I 68.11.67T.0105

housing fine cast steel - body, Ra <= 0.8 µm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape c/c, a/s (for tubing acc. ISO 1127)

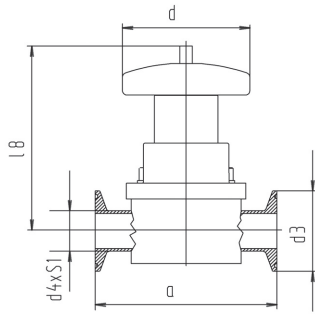
DN	I.4435 EPDM		I.4435 PTFE/EPDM bonded		I.4435 PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.03.67E.0056	○	I 68.03.67Y.0056	-	-
8	○	I 68.04.67E.0056	○	I 68.04.67Y.0056	-	-
10	○	I 68.05.67E.0056	○	I 68.05.67Y.0056	-	-
15	○	I 68.06.67E.0056	-	-	○	I 68.06.67T.0056
20	○	I 68.07.67E.0056	-	-	○	I 68.07.67T.0056
25	○	I 68.08.67E.0056	-	-	○	I 68.08.67T.0056
32	○	I 68.09.67E.0056	-	-	○	I 68.09.67T.0056
40	○	I 68.10.67E.0056	-	-	○	I 68.10.67T.0056
50	○	I 68.11.67E.0056	-	-	○	I 68.11.67T.0056
65	○	I 68.12.67E.0056	-	-	○	I 68.12.67T.0056
80	○	I 68.14.67E.0056	-	-	○	I 68.14.67T.0056
100	○	I 68.15.67E.0056	-	-	○	I 68.15.67T.0056

housing frogging-body , Ra <= 0.8 µm, versions with reduced cross section on request

DN	316 L EPDM		316 L PTFE/EPDM bonded		316 L PTFE/EPDM 2-piece	
	Ident number		Ident number		Ident number	
6	○	I 68.03.67E.0106	○	I 68.03.67Y.0106	-	-
8	○	I 68.04.67E.0106	○	I 68.04.67Y.0106	-	-
10	○	I 68.05.67E.0106	○	I 68.05.67Y.0106	-	-
15	○	I 68.06.67E.0106	-	-	○	I 68.06.67T.0106
20	○	I 68.07.67E.0106	-	-	○	I 68.07.67T.0106
25	○	I 68.08.67E.0106	-	-	○	I 68.08.67T.0106
32	○	I 68.09.67E.0106	-	-	○	I 68.10.67T.0106
40	○	I 68.10.67E.0106	-	-	○	I 68.10.67T.0106
50	○	I 68.11.67E.0106	-	-	○	I 68.11.67T.0106

housing fine cast steel - body, Ra <= 0.8 µm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape c/c (for tubing acc. OD ASME BPE)



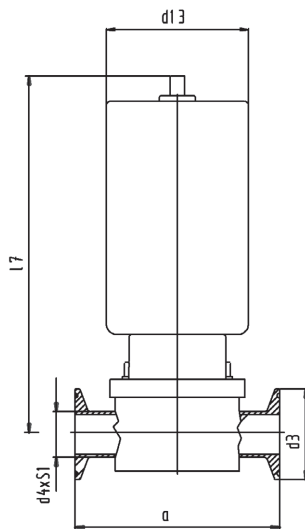
DN	MG	d4 x s1	d	a	l8	d3	weight (kg)
1/4"	32	6.35x0.89	40	63.5	60	25.2	0,40
3/8"	32	9.53x0.89	40	63.5	60	25.2	0,40
1/2"	46	12.7x1.65	60	89	86	25.2	0,50
3/4"	58	19.05x1.65	60	102	94	25.2	0,90
1"	67	25.4x1.65	80	114	117	50.5	1,90
1 1/2"	90	38.1x1.65	100	140	162	50.5	3,70
2"	108	50.8x1.65	125	159	181	64	4,60
2 1/2"	132	63.5x1.65	200	194	259	77.5	-
3"	158	76.2x1.65	200	222	285	91	-
4"	226	102x2.11	200	292	362	119	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d	a	l8	d3	weight (kg)
1/4"	32	6.35x0.89	40	-	60	25.2	0,40
3/8"	32	9.53x0.89	40	-	60	25.2	0,40
1/2"	32	12.7x1.65	40	-	60	25.2	0,40
3/4"	58	19.05x1.65	60	-	86	25.2	0,50
1"	67	25.4x1.65	80	-	117	50.5	1,90
1 1/2"	90	38.1x1.65	100	-	162	50.5	3,70
2"	108	50.8x1.65	125	-	181	64	4,60

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape c/c, a/s (for tubing acc. OD ASME BPE)



DN	MG	d4 x s1	d13	a	l7	d3	weight (kg)
1/4"	32	6.35x0.89	45	63.5	102	25.2	0,70
3/8"	32	9.53x0.89	45	63.5	102	25.2	0,70
1/2"	46	12.7x1.65	65	89	134	25.2	1,00
3/4"	58	19.05x1.65	65	102	178	25.2	1,60
1"	67	25.4x1.65	79	114	198	50.5	2,90
1 1/2"	90	38.1x1.65	100	140	232	50.5	5,30
2"	108	50.8x1.65	120	159	302	64	8,80
2 1/2"	132	63.5x1.65	210	194	424	77.5	-
3"	158	76.2x1.65	290	222	614	91	-
4"	226	102x2.11	290	292	702	119	-

housing froging-body, MG=diaphragm size

DN	MG	d4 x s1	d13	a	l7	d3	weight (kg)
1/4"	32	6.35x0.89	45	-	102	25.2	0,70
3/8"	32	9.53x0.89	45	-	102	25.2	0,70
1/2"	32	12.7x1.65	45	-	102	25.2	0,70
3/4"	46	19.05x1.65	65	-	134	25.2	1,00
1"	67	25.4x1.65	79	-	198	50.5	2,90
1 1/2"	90	38.1x1.65	100	-	232	50.5	5,30
2"	108	50.8x1.65	120	-	302	50.5	8,80

housing fine cast steel-body, MG=diaphragm size

diaphragm shut-off valves, kidney shape c/c (for tubing acc. OD ASME BPE)

DN	1.4435 EPDM Ident number	1.4435 PTFE/EPDM bonded Ident number	1.4435 PTFE/EPDM 2-piece Ident number
1/4"	○ 168.03.67E.0057	○ 168.03.67Y.0057	-
3/8"	○ 168.04.67E.0057	○ 168.04.67Y.0057	-
1/2"	○ 168.06.67E.0057	○ 168.06.67Y.0057	-
3/4"	○ 168.07.67E.0057	-	○ 168.07.67T.0057
1"	○ 168.08.67E.0057	-	○ 168.08.67T.0057
1 1/2"	○ 168.10.67E.0057	-	○ 168.10.67T.0057
2"	○ 168.11.67E.0057	-	○ 168.11.67T.0057
2 1/2"	○ 168.12.67E.0057	-	○ 168.12.67T.0057
3"	○ 168.13.67E.0057	-	○ 168.13.67T.0057
4"	○ 168.15.67E.0057	-	○ 168.15.67T.0057

housing frogging-body , Ra <= 0.8 µm, versions with reduced cross section on request

DN	316 L EPDM Ident number	316 L PTFE/EPDM bonded Ident number	316 L PTFE/EPDM 2-piece Ident number
1/4"	○ 168.03.67E.0107	○ 168.03.67Y.0107	-
3/8"	○ 168.04.67E.0107	○ 168.04.67Y.0107	-
1/2"	○ 168.06.67E.0107	○ 168.06.67Y.0107	-
3/4"	○ 168.07.67E.0107	-	○ 168.07.67T.0107
1"	○ 168.08.67E.0107	-	○ 168.08.67T.0107
1 1/2"	○ 168.10.67E.0107	-	○ 168.10.67T.0107
2"	○ 168.11.67E.0107	-	○ 168.11.67T.0107

housing fine cast steel - body, Ra <= 0.8 µm, versions with reduced cross section on request

diaphragm shut-off valves, kidney shape c/c, a/s (for tubing acc. OD ASME BPE)

DN	1.4435 EPDM Ident number	1.4435 PTFE/EPDM bonded Ident number	1.4435 PTFE/EPDM 2-piece Ident number
1/4"	○ 168.03.67E.0058	○ 168.03.67Y.0058	-
3/8"	○ 168.04.67E.0058	○ 168.04.67Y.0058	-
1/2"	○ 168.06.67E.0058	○ 168.06.67Y.0058	-
3/4"	○ 168.07.67E.0058	-	○ 168.07.67T.0058
1"	○ 168.08.67E.0058	-	○ 168.08.67T.0058
1 1/2"	○ 168.10.67E.0058	-	○ 168.10.67T.0058
2"	○ 168.11.67E.0058	-	○ 168.11.67T.0058
2 1/2"	○ 168.12.67E.0058	-	○ 168.12.67T.0058
3"	○ 168.13.67E.0058	-	○ 168.13.67T.0058
4"	○ 168.15.67E.0058	-	○ 168.15.67T.0058

housing frogging-body , Ra <= 0.8 µm, versions with reduced cross section on request

DN	316 L EPDM Ident number	316 L PTFE/EPDM bonded Ident number	316 L PTFE/EPDM 2-piece Ident number
1/4"	○ 168.03.67E.0108	○ 168.03.67Y.0108	-
3/8"	○ 168.04.67E.0108	○ 168.04.67Y.0108	-
1/2"	○ 168.06.67E.0108	○ 168.06.67Y.0108	-
3/4"	○ 168.07.67E.0108	-	○ 168.07.67T.0108
1"	○ 168.08.67E.0108	-	○ 168.08.67T.0108
1 1/2"	○ 168.10.67E.0108	-	○ 168.10.67T.0108
2"	○ 168.11.67E.0108	-	○ 168.11.67T.0108

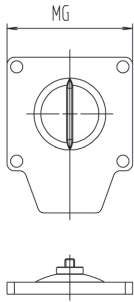
housing fine cast steel - body, Ra <= 0.8 µm, versions with reduced cross section on request

I.7 Diaphragm shut-off valves

I.7.4 Diaphragm shut-off valves • Spare parts page

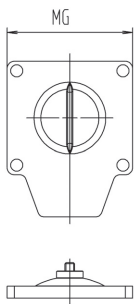
Diaphragm EPDM.....	1.7.4-1
Diaphragm PTFE/EPDM bonded.....	1.7.4-1
Diaphragm PTFE/EPDM 2-piece	1.7.4-3

diaphragm EPDM



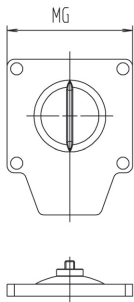
DN	MG
6 - 10	32
15	46
20	58
25	67
32	82
40	90
50	108
65	132
80	158
100	226

diaphragm PTFE/EPDM bonded



DN	MG
6 - 10	32
15	46
20	58
25	67
32	82
40	90
50	108

diaphragm PTFE/EPDM 2-piece



DN	MG
15	46
20	58
25	67
32	82
40	90
50	108
65	132
80	158
100	226

diaphragm EPDM

diaphragm EPDM	
DN	Ident number
6 - 10	○ 828.01.6E0.0016
15	○ 828.06.6E0.0016
20	○ 828.07.6E0.0016
25	○ 828.08.6E0.0016
32	○ 828.09.6E0.0016
40	○ 828.10.6E0.0016
50	○ 828.11.6E0.0016
65	○ 828.12.6E0.0016
80	○ 828.14.6E0.0016
100	○ 828.15.6E0.0016

diaphragm PTFE/EPDM bonded

diaphragm PTFE/EPDM bonded	
DN	Ident number
6 - 10	○ 828.01.6YE.0016
15	○ 828.06.6YE.0016
20	○ 828.07.6YE.0016
25	○ 828.08.6YE.0016
32	○ 828.09.6YE.0016
40	○ 828.10.6YE.0016
50	○ 828.11.6YE.0016

diaphragm PTFE/EPDM 2-piece

diaphragm PTFE/EPDM 2-piece	
DN	Ident number
15	○ 828.06.6TE.0016
20	○ 828.06.6TE.0016
25	○ 828.08.6TE.0016
32	○ 828.09.6TE.0016
40	○ 828.10.6TE.0016
50	○ 828.11.6TE.0016
65	○ 828.12.6TE.0016
80	○ 828.14.6TE.0016
100	○ 828.15.6TE.0016

I.7 Diaphragm shut-off valves

I.7.5 Diaphragm shut-off valves • Attachments page

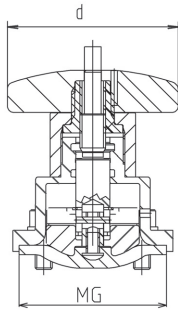
Handle plastic	1.7.5-1
Handle plastic with proximity switch	1.7.5-1
Pneumatic actuator	1.7.5-1
Revertive signal top	1.7.5-1
Revertive signal top ASI.....	1.7.5-3

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Back

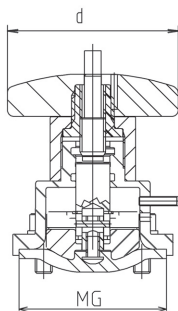
Back

handle plastic



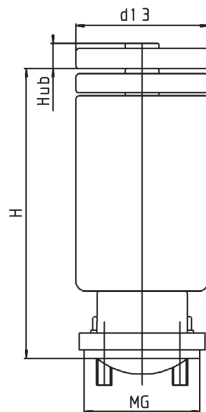
DN	MG	d
6 - 10	32	40
15	46	60
20	58	60
25	67	80
32	82	100
40	90	100
50	108	125
65	132	200
158	158	200
100	226	200

handle plastic with proximity switch



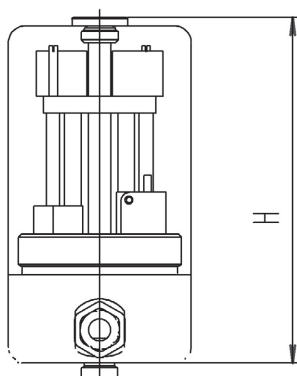
DN	MG	d
6 - 10	32	40
15	46	60
20	58	60
25	67	80
32	82	100
40	90	100
50	108	125
65	132	200
80	158	200
100	226	200

pneum. actuator



DN	MG	d 13	H	stroke	weight (kg)
6 - 10	32	45	89	5	-
15	46	65	114	7	-
20	58	65	154	9	-
25	67	79	168	11	-
32	82	100	186	15	-
40	90	100	187	18	-
50	108	120	244	26	-
65	132	210	349	34	-
80	158	290	527	40	-
100	226	290	574	56	-

revertive signal top



DN	MG	H	weight (kg)
6 - 40	32 - 90	ca. 93	0,40
50-80	108 - 158	ca. 125	0,40

handle plastic

DN	handle plastic Ident number
6 - 10	○ 168.02.6X0.0137
15	○ 168.06.6X0.0137
20	○ 168.07.6X0.0137
25	○ 168.08.6X0.0137
32	○ 168.09.6X0.0137
40	○ 168.10.6X0.0137
50	○ 168.11.6X0.0137
65	○ 168.12.6X0.0137
158	○ 168.14.6X0.0137
100	○ 168.15.6X0.0137

handle plastic with proximity switch

DN	handle plastic with prox. switch Ident number
6 - 10	○ 168.02.6X0.0133
15	○ 168.06.6X0.0133
20	○ 168.07.6X0.0133
25	○ 168.08.6X0.0133
32	○ 168.09.6X0.0133
40	○ 168.10.6X0.0133
50	○ 168.11.6X0.0133
65	○ 168.12.6X0.0133
80	○ 168.14.6X0.0133
100	○ 168.15.6X0.0133

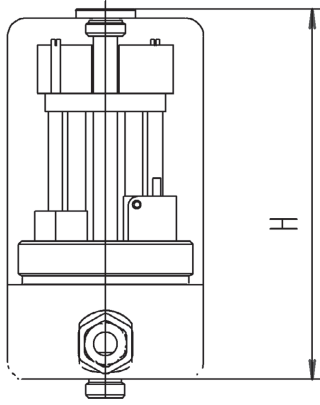
pneum. actuator

DN	pneum. actuator plastic		pneum. actuator stainless steel	
	Ident number		Ident number	
6 - 10	○ 168.02.6X0.0136		○ 168.02.6Y0.0136	
15	○ 168.06.6X0.0136		○ 168.06.6Y0.0136	
20	○ 168.07.6X0.0136		○ 168.07.6Y0.0136	
25	○ 168.08.6X0.0136		○ 168.08.6Y0.0136	
32	○ 168.09.6X0.0136		○ 168.09.6Y0.0136	
40	○ 168.10.6X0.0136		○ 168.10.6Y0.0136	
50	○ 168.11.6X0.0136		○ 168.11.6Y0.0136	
65	○ 168.12.6X0.0136	-	○ 168.12.6Y0.0136	
80	○ 168.14.6X0.0136	-	○ 168.14.6Y0.0136	
100	○ 168.15.6X0.0136	-	○ 168.15.6Y0.0136	

revertive signal top

DN	revertive signal top Ident number
6 - 40	○ 168.02.6Y0.0135
50-80	○ 168.12.6Y0.0135

revertive signal top ASI



DN	MG	H	weight (kg)
6 - 50	32 - 108	105	-
65 - 100	132 - 226	165	-

MG=diaphragm size

	DN	revertive signal top ASI Ident number
revertive signal top ASI	6 - 50	○ 168.02.6Y0.0134
	65 - 100	○ 168.12.6Y0.0134

I.8 Small valves

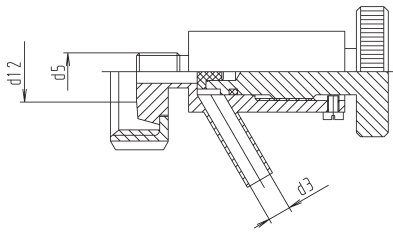
I.8.1 Sampling valves

	page
Drain valves with BSP thread	I
Drain valves flammable with BSP thread	I
Sample valves with O-ring	I
Sample valves with penetrate diaphragm	3
Gaskets for sampling valves	3

I.8.2 Drain valves

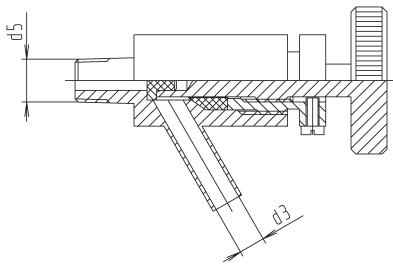
Drain valves	I
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sampling valve with R-thread (719)



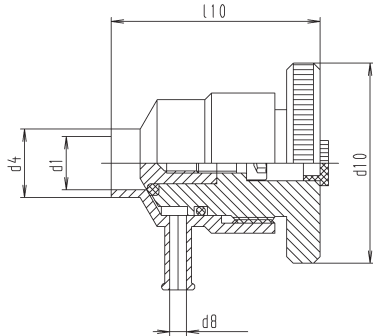
DN	d3	d12	d5 thread	type	weight (kg)
1/4"	10	-	R 1/4"	handwheel	0,360
3/8"	10	-	R 3/8"	handwheel	0,380
1/2"	10	-	R 1/2"	handwheel	0,400
20	10	DN 20 K/M	-	handwheel	0,600
1/4"	10	-	R 1/4"	key	-
3/8"	10	-	R 3/8"	key	-
1/2"	10	-	R 1/2"	key	-
20	10	DN 20 K/M	-	key	-
1/4" - 20	-	-	-	DK-key	-

sampling valve, heat sterilizable, with R-thread (722)



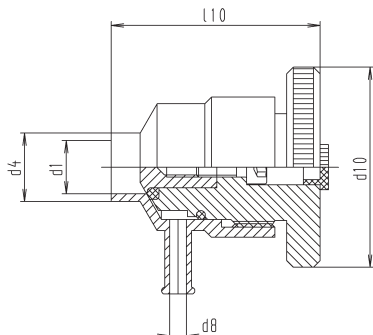
DN	d3	d5	weight (kg)
1/2"	10	R 1/2"	0,400

sampling valve, o-ring version (710D)



DN	d1	d4	d8	d10	l10	weight (kg)
15	16	20	6	60	62.5	0,630
40	37	40	6	60	63.5	0,630

sampling valve, o-ring version, heat sterilizable (710D)



DN	d1	d4	d8	d10	l10	weight (kg)
15	16	20	6	60	62.5	0,630
40	37	40	6	60	63.5	0,630

sampling valve with R-thread (719)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1/4"	○ 169.03.11N.0002	○ 169.03.21N.0002	○ 169.03.12N.0002	○ 169.03.22N.0002
3/8"	○ 169.04.11N.0002	○ 169.04.21N.0002	○ 169.04.12N.0002	○ 169.04.22N.0002
1/2"	○ 169.06.11N.0002	○ 169.06.21N.0002	○ 169.06.12N.0002	○ 169.06.22N.0002
20	○ 169.07.11N.0310	○ 169.07.21N.0310	○ 169.07.12N.0310	○ 169.07.22N.0310
1/4"	○ 169.03.11N.0311	○ 169.03.21N.0311	○ 169.03.12N.0311	○ 169.03.22N.0311
3/8"	○ 169.04.11N.0311	○ 169.04.21N.0311	○ 169.04.12N.0311	○ 169.04.22N.0311
1/2"	○ 169.06.11N.0311	○ 169.06.21N.0311	○ 169.06.12N.0311	○ 169.06.22N.0311
20	○ 169.07.11N.0312	○ 169.07.21N.0312	○ 169.07.12N.0312	○ 169.07.22N.0312
1/4" - 20	○ 169.00.110.0002	-	-	-

sampling valve, heat sterilizable, with R-thread (722)

DN	316 L polished Ident number	316 L matt Ident number
1/2"	● 369.06.12T.0017	○ 369.06.22T.0017

sampling valve, o-ring version (710D)

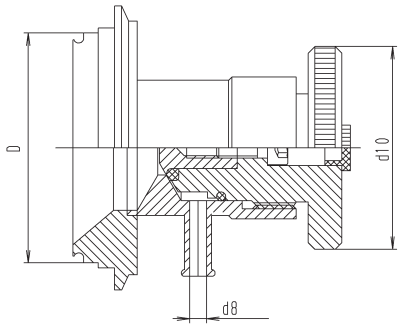
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15	○ 169.06.11S.0201	○ 169.06.21S.0201	○ 169.06.12S.0201	○ 169.06.22S.0201
40	○ 169.10.11S.0201	○ 169.10.21S.0201	○ 169.10.12S.0201	● 169.10.22S.0201

sampling valve, o-ring version, heat sterilizable (710D)

DN	316 L Viton/FEP polished Ident number	316 L Viton/FEP matt Ident number
15	○ 169.06.12V.0343	○ 169.06.22V.0343
40	○ 169.10.12V.0343	○ 169.10.22V.0343

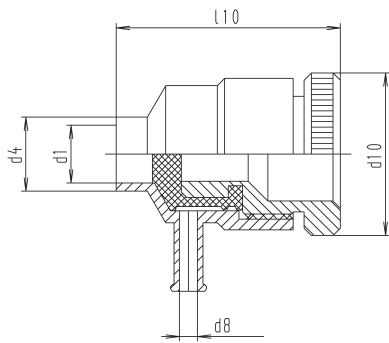
sampling valve, o-ring version, tu-connection (710T)

nocapius



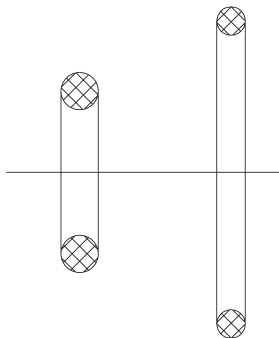
DN	d	d8	d10	weight (kg)
15	31	6	60	0,830
25	50	6	60	0,870

sampling valve with membrane for syringe (710)



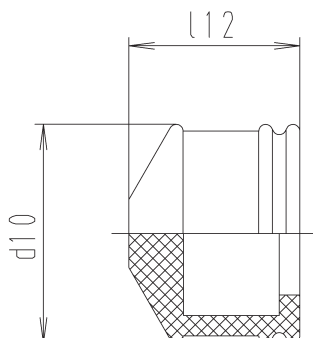
DN	d1	d4	d8	d10	l10	weight (kg)
15	16	20	6	45	62	0,400
40	37	40	6	45	63	0,400

set of gaskets for sampling valve, o-ring version



DN	weight (kg)
15 - 40	-

gasket for sampling device with syringe (710A)



DN	d10	l12	weight (kg)
15 - 40	16	20	0,010

sampling valve, o-ring version, tu-connection (710T)

DN	316 L FPM polished Ident number	316 L FPM matt Ident number
15	○ 169.06.12V.0344	○ 169.06.22V.0344
25	○ 169.08.12V.0344	○ 169.08.22V.0344

sampling valve with membrane for syringe (710)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15	● 169.06.11S.0200	● 169.06.21S.0200	● 169.06.12S.0200	● 169.06.22S.0200
40	● 169.10.11S.0200	● 169.10.21S.0200	● 169.10.12S.0200	● 169.10.22S.0200

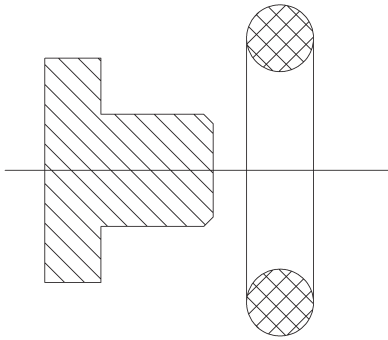
set of gaskets for sampling valve, o-ring version

DN	EPDM Ident number	MVQ Ident number	Viton/FEP Ident number
15 - 40	○ 269.06.6E0.0174	○ 269.06.6S0.0174	○ 269.06.6V0.0174

gasket for sampling device with syringe (710A)

DN	EPDM Ident number	MVQ Ident number	FPM Ident number	one-way syringe Ident number
15 - 40	● 829.06.6E0.0002	● 829.06.6S0.0002	● 829.06.6V0.0002	● 899.00.600.0000

set of gaskets for drain valve



DN	weight (kg)
1/4" - 1/2"	-

	DN	Teflon / NBR Ident number
set of gaskets for drain valve	¼" - ½"	o 269.03.11N.0173

I.8 Small valves

I.8.2 Small valves • Drain valves

page

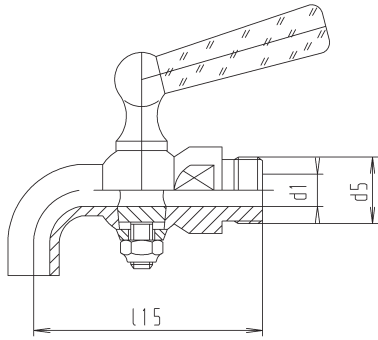
Drain cock with bended outlet (705).....	I.8.2-I
Drain cock with straight outlet (706).....	I.8.2-I
Drain cock with straight outlet and hose spout (707).....	I.8.2-I
Drain cock with straight outlet with BSP union (708).....	I.8.2-I

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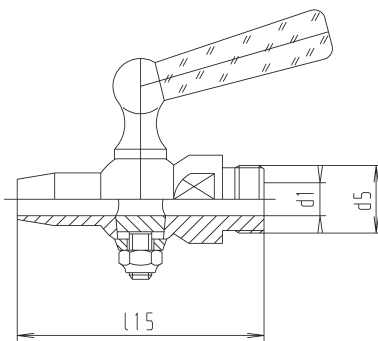
Back

drain cock with bended outlet (705)



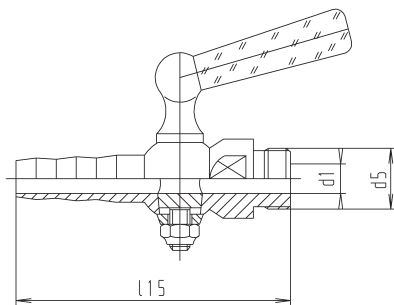
DN	d1	d5	l15	weight (kg)
4	4	R 1/4"	55	0,100
6	6	R 3/8"	65	0,160
8	8	R 1/2"	70	0,250
12	12	R 3/4"	95	0,590

drain cock with straight outlet (706)



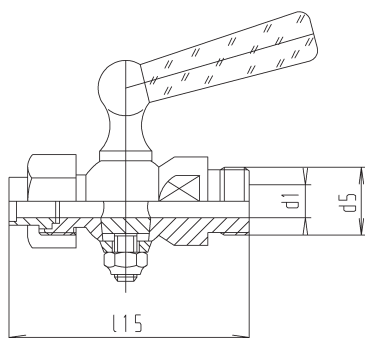
DN	d1	d5	l15	weight (kg)
4	4	R 1/4"	62	0,100
6	6	R 3/8"	66	0,160
8	8	R 1/2"	78	0,250
12	12	R 3/4"	100	0,590

drain cock with straight outlet and hose spout (707)



DN	d1	d5	l15	weight (kg)
4	4	R 1/4"	70	0,100
6	6	R 3/8"	82	0,160
8	8	R 1/2"	93	0,240
12	12	R 3/4"	113	0,590

drain cock with straight outlet with BSP union (708)



DN	d1	d5	l15	weight (kg)
4	4	R 1/4"	56	0,110
6	6	R 3/8"	68	0,200
8	8	R 1/2"	74	0,290
12	12	R 3/4"	96	0,590

drain cock with bended outlet (705)

316 L	
DN	Ident number
4	● 895.01.620.0005
6	● 895.02.620.0005
8	● 895.03.620.0005
12	● 895.05.620.0005

drain cock with straight outlet (706)

316 L	
DN	Ident number
4	● 895.01.620.0006
6	● 895.02.620.0006
8	● 895.03.620.0006
12	● 895.05.620.0006

drain cock with straight outlet and hose spout (707)

316 L	
DN	Ident number
4	● 895.01.620.0007
6	● 895.02.620.0007
8	● 895.03.620.0007
12	● 895.05.620.0007

drain cock with straight outlet with BSP union (708)

316 L	
DN	Ident number
4	● 895.01.620.0008
6	● 895.02.620.0008
8	● 895.03.620.0008
12	● 895.05.620.0008

1.9 Non return valves

1.9.1 Non return valves page

Technical information

Non return valves welding ends (for tubing acc. DIN 11850 line 2)	1
Non return valves between flanges (for tubing acc. DIN 11850 line 2)	1
Non return valves between flanges (for tubing similar to DIN 11850)	1
Non return valves welding ends inch OD	1
Non return valves between flanges inch OD	3
Non return valves male/welding DIN (for tubing similar to DIN 11850)	3
Non return valves male/welding inch OD	3

1.9.2 Ball type non return valves

Ball type non return valves welding ends DIN (for tubing DIN 11850 line 2)	1
Ball type non return valves welding ends inch OD	1
Ball type non return valves male/welding DIN	1
Ball type non return valves male/welding inch OD	1

1.9.3 Spare parts for non return valves

Springs for non return valves	1
Springs for non return valves between flanges	1
Seal kits for non return valves	1
Seal kits for non return valves between flanges	1
Balls for ball type non return valves	3



1.9 Non return valves

1.9.1 Non return valves • Disk type

page

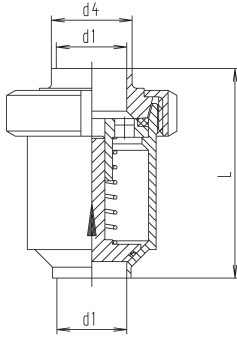
Check valve, disk type, weld ends (for tubing according to DIN 11850 line 2) (770S)	1.9.1-1
Check valve, disk type, between flanges (for tubing according to DIN 11850 line 2).....	1.9.1-1
Check valve, disk type, between flanges (welding bevel according to DIN 11850) (770N)	1.9.1-1
Check valve, disk type, weld ends, inch OD (770Z)	1.9.1-1
Check valve, disk type, between flanges, inch OD.....	1.9.1-3
Check valve, disk type, male / weld end (weld. bevel according to DIN 11850) (770)	1.9.1-3
Check valve, disk type, male / weld end, inch OD (770Z).....	1.9.1-3

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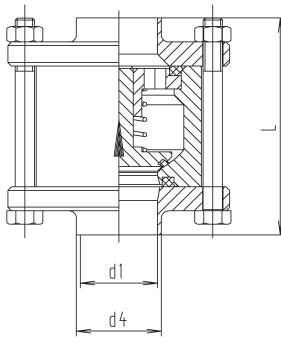
Back

check valve, disk type, weld ends (for tub. acc. DIN 11850 line 2) (770S)



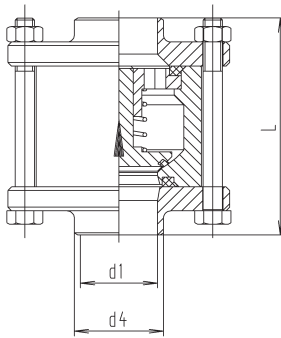
DN	d1	d4	l	weight (kg)
25	26	29	81	1,020
32	32	35	96	1,140
40	38	41	106	2,120
50	50	53	107	2,430
65	66	70	132	3,580
80	81	85	151	5,780
100	100	104	170	9,660

check valve, disk type, betw. flanges (for tub. acc. DIN 11850 line 2)



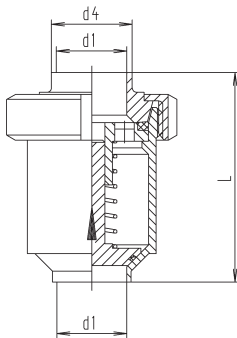
DN	d1	d4	l	weight (kg)
25	26	29	90	1,650
32	32	35	90	2,020
40	38	41	100	1,990
50	50	53	110	2,530
65	66	70	120	3,270
80	81	85	145	5,900
100	100	104	150	9,800

check valve, disk type, betw. flanges (weld. bevel acc. DIN 11850) (770N)



DN	d1	d4	l	weight (kg)
25	26	31	90	1,650
32	32	37	90	2,020
40	38	43	100	1,990
50	50	55	110	2,530
65	66	72	120	3,270
80	81	87	145	5,900
100	100	106	150	9,800

check valve, disk type, weld ends, inch OD (770Z)



DN	d1	d4	l	weight (kg)
25	22.1	25.4	73	1,020
32	28.5	31.8	96	1,140
40	34.8	38.1	106	2,120
50	47.5	50.8	107	2,430
65	60.2	63.5	132	3,580
80	72.9	76.1	151	5,780
100	97.4	101.6	170	9,660

check valve, disk type, weld ends (for tub. acc. DIN 11850 line 2) (770S)

DN	304 NBR polished Ident number	304 NBR matt Ident number	316 L NBR polished Ident number	316 L NBR matt Ident number
25	○ 167.08.11N.0025	○ 167.08.21N.0025	○ 167.08.12N.0025	○ 167.08.22N.0025
32	○ 167.09.11N.0025	○ 167.09.21N.0025	○ 167.09.12N.0025	○ 167.09.22N.0025
40	○ 167.10.11N.0025	○ 167.10.21N.0025	○ 167.10.12N.0025	○ 167.10.22N.0025
50	○ 167.11.11N.0025	○ 167.11.21N.0025	○ 167.11.12N.0025	○ 167.11.22N.0025
65	○ 167.12.11N.0025	○ 167.12.21N.0025	○ 167.12.12N.0025	○ 167.12.22N.0025
80	○ 167.14.11N.0025	○ 167.14.21N.0025	○ 167.14.12N.0025	○ 167.14.22N.0025
100	○ 167.15.11N.0025	○ 167.15.21N.0025	○ 167.15.12N.0025	○ 167.15.22N.0025

check valve, disk type, betw. flanges (for tub. acc. DIN 11850 line 2)

DN	304 NBR polished Ident number	304 NBR matt Ident number	316 L NBR polished Ident number	316 L NBR matt Ident number
25	○ 167.08.11N.0027	○ 167.08.21N.0027	○ 167.08.12N.0027	○ 167.08.22N.0027
32	○ 167.09.11N.0027	○ 167.09.21N.0027	○ 167.09.12N.0027	○ 167.09.22N.0027
40	○ 167.10.11N.0027	○ 167.10.21N.0027	○ 167.10.12N.0027	○ 167.10.22N.0027
50	○ 167.11.11N.0027	○ 167.11.21N.0027	○ 167.11.12N.0027	○ 167.11.22N.0027
65	○ 167.12.11N.0027	○ 167.12.21N.0027	○ 167.12.12N.0027	○ 167.12.22N.0027
80	○ 167.14.11N.0027	○ 167.14.21N.0027	○ 167.14.12N.0027	○ 167.14.22N.0027
100	○ 167.15.11N.0027	○ 167.15.21N.0027	○ 167.15.12N.0027	○ 167.15.22N.0027

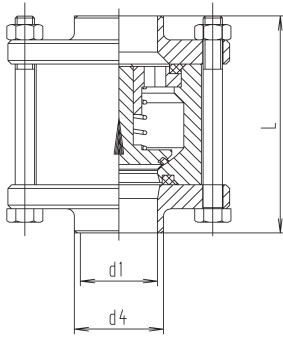
check valve, disk type, betw. flanges (weld. bevel acc. DIN 11850) (770N)

DN	304 NBR polished Ident number	304 NBR matt Ident number	316 L NBR polished Ident number	316 L NBR matt Ident number
25	○ 167.08.11N.0007	○ 167.08.21N.0007	○ 167.08.12N.0007	○ 167.08.22N.0007
32	○ 167.09.11N.0007	○ 167.09.21N.0007	○ 167.09.12N.0007	○ 167.09.22N.0007
40	○ 167.10.11N.0007	○ 167.10.21N.0007	○ 167.10.12N.0007	○ 167.10.22N.0007
50	○ 167.11.11N.0007	○ 167.11.21N.0007	○ 167.11.12N.0007	○ 167.11.22N.0007
65	○ 167.12.11N.0007	○ 167.12.21N.0007	○ 167.12.12N.0007	○ 167.12.22N.0007
80	○ 167.14.11N.0007	○ 167.14.21N.0007	○ 167.14.12N.0007	○ 167.14.22N.0007
100	○ 167.15.11N.0007	○ 167.15.21N.0007	○ 167.15.12N.0007	○ 167.15.22N.0007

check valve, disk type, weld ends, inch OD (770Z)

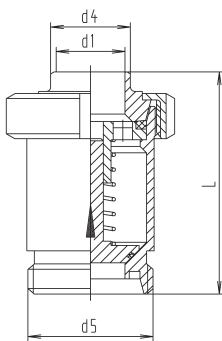
DN	304 NBR polished Ident number	304 NBR matt Ident number	316 L NBR polished Ident number	316 L NBR matt Ident number
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32	○ 167.09.11N.0026	○ 167.09.21N.0026	○ 167.09.12N.0026	○ 167.09.22N.0026
40	○ 167.10.11N.0026	○ 167.10.21N.0026	○ 167.10.12N.0026	○ 167.10.22N.0026
50	○ 167.11.11N.0026	○ 167.11.21N.0026	○ 167.11.12N.0026	○ 167.11.22N.0026
65	○ 167.12.11N.0026	○ 167.12.21N.0026	○ 167.12.12N.0026	○ 167.12.22N.0026
80	○ 167.13.11N.0026	○ 167.13.21N.0026	○ 167.13.12N.0026	○ 167.13.22N.0026
100	○ 167.15.11N.0026	○ 167.15.21N.0026	○ 167.15.12N.0026	○ 167.15.22N.0026

check valve, disk type, betw. flanges, inch OD



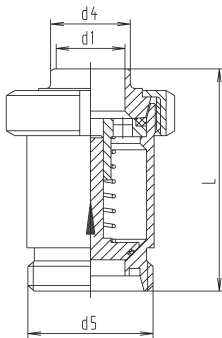
DN	d1	d4	l	weight (kg)
1"	22.1	25.4	90	1,650
1 1/4"	28.5	31.8	90	2,020
1 1/2"	34.8	38.1	100	1,990
2"	47.5	50.8	110	2,530
2 1/2"	60.2	63.5	120	3,270
3"	72.9	76.2	145	5,900
4"	97.4	101.6	150	9,800

check valve, disk type, male / weld end (weld. bevel acc. DIN 11850) (770)



DN	d1	d4	d5	l	weight (kg)
25	26	31	52x1/6"	88	1,080
32	32	37	58x1/6"	103	1,200
40	38	43	65x1/6"	113	2,200
50	50	55	78x1/6"	114	2,550
65	66	72	95x1/6"	140	3,700
80	81	87	110x1/4"	159	5,900
100	100	106	130x1/4"	180	9,800

check valve, disk type, male/ weld end, inch OD (770Z)



DN	d1	d4	d5	l	weight (kg)
1"	22.1	25.4	52x1/6"	80	1,080
1 1/4"	28.5	31.8	58x1/6"	103	1,200
1 1/2"	34.8	38.1	65x1/6"	113	2,200
2"	47.5	50.8	78x1/6"	114	2,550
2 1/2"	60.2	63.5	95x1/6"	140	3,700
3"	72.9	76.1	104x1/6"	159	5,900
4"	97.4	101.6	130x1/4"	180	9,800

check valve, disk type, betw. flanges, inch OD

DN	304 NBR polished Ident number	304 NBR matt Ident number	316 L NBR polished Ident number	316 L NBR matt Ident number
1"	○ 167.08.11N.0012	○ 167.08.21N.0012	○ 167.08.12N.0012	○ 167.08.22N.0012
1 1/4"	○ 167.09.11N.0012	○ 167.09.21N.0012	○ 167.09.12N.0012	○ 167.09.22N.0012
1 1/2"	○ 167.10.11N.0012	○ 167.10.21N.0012	○ 167.10.12N.0012	○ 167.10.22N.0012
2"	○ 167.11.11N.0012	○ 167.11.21N.0012	○ 167.11.12N.0012	○ 167.11.22N.0012
2 1/2"	○ 167.12.11N.0012	○ 167.12.21N.0012	○ 167.12.12N.0012	○ 167.12.22N.0012
3"	○ 167.13.11N.0012	○ 167.13.21N.0012	○ 167.13.12N.0012	○ 167.13.22N.0012
4"	○ 167.15.11N.0012	○ 167.15.21N.0012	○ 167.15.12N.0012	○ 167.15.22N.0012

check valve, disk type, male / weld end (weld. bevel acc. DIN 11850) (770)

DN	304 NBR polished Ident number	304 NBR matt Ident number	316 L NBR polished Ident number	316 L NBR matt Ident number
25	○ 167.08.11N.0003	○ 167.08.21N.0003	○ 167.08.12N.0003	○ 167.08.22N.0003
32	○ 167.09.11N.0003	○ 167.09.21N.0003	○ 167.09.12N.0003	○ 167.09.22N.0003
40	○ 167.10.11N.0003	● 167.10.21N.0003	○ 167.10.12N.0003	○ 167.10.22N.0003
50	● 167.11.11N.0003	● 167.11.21N.0003	○ 167.11.12N.0003	● 167.11.22N.0003
65	○ 167.12.11N.0003	○ 167.12.21N.0003	○ 167.12.12N.0003	○ 167.12.22N.0003
80	○ 167.14.11N.0003	○ 167.14.21N.0003	○ 167.14.12N.0003	○ 167.14.22N.0003
100	● 167.15.11N.0003	○ 167.15.21N.0003	○ 167.15.12N.0003	○ 167.15.22N.0003

check valve, disk type, male / weld end, inch OD (770Z)

DN	304 NBR polished Ident number	304 NBR matt Ident number	316 L NBR polished Ident number	316 L NBR matt Ident number
1"	○ 167.08.11N.0004	○ 167.08.21N.0004	○ 167.08.12N.0004	○ 167.08.22N.0004
1 1/4"	○ 167.09.11N.0004	○ 167.09.21N.0004	○ 167.09.12N.0004	○ 167.09.22N.0004
1 1/2"	○ 167.10.11N.0004	○ 167.10.21N.0004	○ 167.10.12N.0004	○ 167.10.22N.0004
2"	○ 167.11.11N.0004	○ 167.11.21N.0004	○ 167.11.12N.0004	○ 167.11.22N.0004
2 1/2"	○ 167.12.11N.0004	○ 167.12.21N.0004	○ 167.12.12N.0004	○ 167.12.22N.0004
3"	○ 167.13.11N.0004	○ 167.13.21N.0004	○ 167.13.12N.0004	○ 167.13.22N.0004
4"	○ 167.15.11N.0004	○ 167.15.21N.0004	○ 167.15.12N.0004	○ 167.15.22N.0004

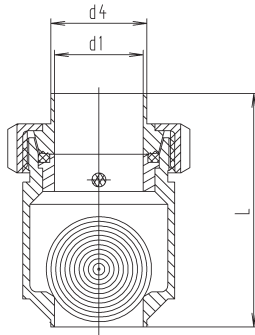
1.9 Non return valves

1.9.2 Non return valves • Ball type

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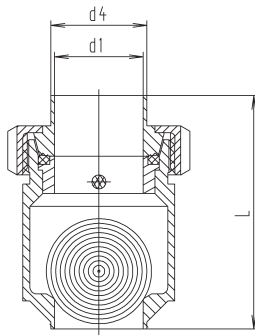
Check valve, ball type, weld ends (according to DIN 11850 line 2) (770K).....	1.9.2-1
Check valve, ball type, weld ends, inch OD (770K)	1.9.2-1
Check valve, ball type, DIN 11851 male / weld end DIN (770K)	1.9.2-1
Check valve, ball type, DIN 11851 male / weld end inch OD (770K)	1.9.2-1

check valve, ball type, weld ends (acc. DIN 11850 line 2) (770K)



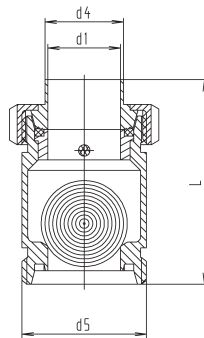
DN	d1	d4	L	weight (kg)
25	26	29	91	-
32	32	35	96	-
40	38	41	100	-
50	50	53	112	-
65	66	70	161	-
80	81	85	201	-

check valve, ball type, weld ends, inch OD (770K)



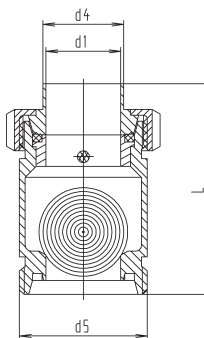
DN	d1	d4	L	weight (kg)
1"	22.1	25.4	90	-
1¼"	28.5	31.8	96	-
1½"	34.8	38.1	100	-
2"	47.5	50.8	112	-
2½"	60.2	63.5	161	-
3"	72.9	76.1	201	-

check valve, ball type, DIN 11851 male / weld end (770K)



DN	d1	d4	d5	L	weight (kg)
25	26	31	52x1/6"	97	-
32	32	37	58x1/6"	103	-
40	38	43	65x1/6"	107	-
50	50	55	78x1/6"	119	-
65	66	72	95x1/6"	169	-
80	81	87	110x1/4"	209	-

check valve, ball type, DIN 11851 male / weld end inch OD (770K)



DN	d1	d4	d5	L	weight (kg)
1"	22.1	25.4	52x1/6"	97	-
1¼"	28.5	31.8	58x1/6"	103	-
1½"	34.8	38.1	65x1/6"	107	-
2"	47.5	50.8	78x1/6"	119	-
2½"	60.2	63.5	95x1/6"	169	-
3"	72.9	76.1	104x1/6"	209	-

check valve, ball type, weld ends (acc. DIN 11850 line 2) (770K)

DN	304 EPDM polished Ident number	304 NBR polished Ident number	316 L EPDM polished Ident number	316 L NBR polished Ident number
25	○ 167.08.11E.0019	○ 167.08.11N.0019	○ 167.08.12E.0019	○ 167.08.12N.0019
32	○ 167.09.11E.0019	○ 167.09.11N.0019	○ 167.09.12E.0019	○ 167.09.12N.0019
40	○ 167.10.11E.0019	○ 167.10.11N.0019	○ 167.10.12E.0019	○ 167.10.12N.0019
50	○ 167.11.11E.0019	○ 167.11.11N.0019	○ 167.11.12E.0019	○ 167.11.12N.0019
65	○ 167.12.11E.0019	○ 167.12.11N.0019	○ 167.12.12E.0019	○ 167.12.12N.0019
80	○ 167.14.11E.0019	○ 167.14.11N.0019	○ 167.14.12E.0019	○ 167.14.12N.0019

check valve, ball type, weld ends, inch OD (770K)

DN	304 EPDM polished Ident number	304 NBR poliirt Ident number	316 L EPDM polished Ident number	316 L NBR polished Ident number
1"	○ 167.08.11E.0021	○ 167.08.11N.0021	○ 167.08.12E.0021	○ 167.08.12N.0021
1¼"	○ 167.09.11E.0021	○ 167.09.11N.0021	○ 167.09.12E.0021	○ 167.09.12N.0021
1½"	○ 167.10.11E.0021	○ 167.10.11N.0021	○ 167.10.12E.0021	○ 167.10.12N.0021
2"	○ 167.11.11E.0021	○ 167.11.11N.0021	○ 167.11.12E.0021	○ 167.11.12N.0021
2½"	○ 167.12.11E.0021	○ 167.12.11N.0021	○ 167.12.12E.0021	○ 167.12.12N.0021
3"	○ 167.13.11E.0021	○ 167.13.11N.0021	○ 167.13.12E.0021	○ 167.13.12N.0021

check valve, ball type, DIN 11851 male / weld end (770K)

DN	304 EPDM polished Ident number	304 NBR poliirt Ident number	316 L EPDM polished Ident number	316 L NBR polished Ident number
25	○ 167.08.11E.0010	○ 167.08.11N.0010	○ 167.08.12E.0010	○ 167.08.12N.0010
32	○ 167.09.11E.0010	○ 167.09.11N.0010	○ 167.09.12E.0010	○ 167.09.12N.0010
40	○ 167.10.11E.0010	○ 167.10.11N.0010	○ 167.10.12E.0010	○ 167.10.12N.0010
50	○ 167.11.11E.0010	○ 167.11.11N.0010	○ 167.11.12E.0010	○ 167.11.12N.0010
65	○ 167.12.11E.0010	○ 167.12.11N.0010	○ 167.12.12E.0010	○ 167.12.12N.0010
80	○ 167.14.11E.0010	○ 167.14.11N.0010	○ 167.14.12E.0010	○ 167.14.12N.0010

check valve, ball type, DIN 11851 male / weld end inch OD (770K)

DN	304 EPDM polished Ident number	304 NBR poliirt Ident number	316 L EPDM polished Ident number	316 L NBR polished Ident number
1"	○ 167.08.11E.0022	○ 167.08.11N.0022	○ 167.08.12E.0022	○ 167.08.12N.0022
1¼"	○ 167.09.11E.0022	○ 167.09.11N.0022	○ 167.09.12E.0022	○ 167.09.12N.0022
1½"	○ 167.10.11E.0022	○ 167.10.11N.0022	○ 167.10.12E.0022	○ 167.10.12N.0022
2"	○ 167.11.11E.0022	○ 167.11.11N.0022	○ 167.11.12E.0022	○ 167.11.12N.0022
2½"	○ 167.12.11E.0022	○ 167.12.11N.0022	○ 167.12.12E.0022	○ 167.12.12N.0022
3"	○ 167.13.11E.0022	○ 167.13.11N.0022	○ 167.13.12E.0022	○ 167.13.12N.0022

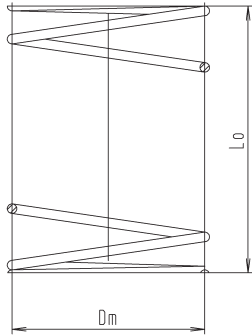
I.9 Non return valves

I.9.3 Non return valves • Spare parts page

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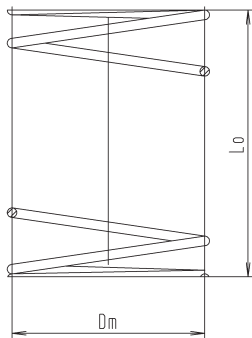
Spring for check valve, disk type.....	I.9.3-1
Spring for check valve, disk type between flanges.....	I.9.3-1
Set of gaskets for check valve, disk type.....	I.9.3-1
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spring for check valve, disk type



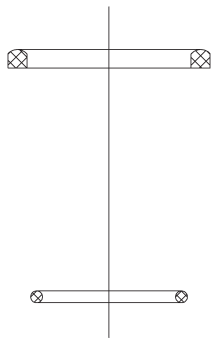
DN	Dm	Lo	weight (kg)
25 / 1"	19	50	-
32 / 1¼"	21.5	62	-
40 / 1½"	25	67	-
50 / 2"	25	79	-
65-80	30.5	100	-
2½"-3"	30.5	100	-
100 / 4"	32	100	-

spring for check valve, disk type betw. flanges



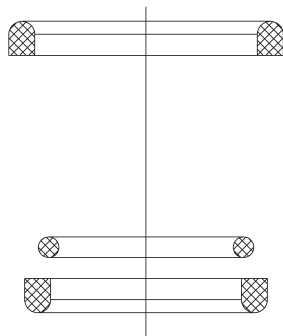
DN	Dm	Lo	weight (kg)
15-25 / 1"	19	39	-
32 / 1¼"	21.6	40	-
40 / 1½"	24.8	38	-
50 / 2"	24.8	68	-
65 / 2½"	30	85	-
80 / 3"	30.5	85	-
100 / 4"	32	71	-

set of gaskets for check valve, disk type



DN	weight (kg)
25 / 1"	0,006
32 / 1¼"	0,008
40 / 1½"	0,010
50 / 2"	0,012
65 / 2½"	0,016
80 / 3"	0,018
100 / 4"	0,026

set of gaskets for check valve, disk type betw. flanges



DN	weight (kg)
15-25 / 1"	-
32 / 1¼"	-
40 / 1½"	-
50 / 2"	-
65 / 2½"	-
80 / 3"	-
100 / 4"	-

spring for check valve, disk type

DN	Ident number
25 / 1"	○ 831.00.680.0015
32 / 1¼"	○ 831.00.680.0019
40 / 1½"	○ 831.00.680.0027
50 / 2"	○ 831.00.680.0028
65-80	○ 831.00.680.0039
2½"-3"	○ 831.00.680.0039
100 / 4"	○ 831.00.680.0042

spring for check valve, disk type betw. flanges

DN	Ident number
15-25 / 1"	○ 831.00.680.0085
32 / 1¼"	○ 831.00.680.0086
40 / 1½"	○ 831.00.680.0087
50 / 2"	○ 831.00.680.0088
65 / 2½"	○ 831.00.680.0089
80 / 3"	○ 831.00.680.0091
100 / 4"	○ 831.00.680.0092

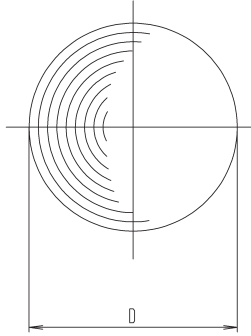
set of gaskets for check valve, disk type

DN	EPDM		NBR	
	Ident number	Ident number	Ident number	Ident number
25 / 1"	○ 267.08.6E0.0055	○ 267.08.6N0.0055	○ 267.08.6N0.0055	○ 267.08.6N0.0055
32 / 1¼"	○ 267.09.6E0.0055	○ 267.09.6E0.0055	○ 267.09.6N0.0055	○ 267.09.6N0.0055
40 / 1½"	○ 267.10.6E0.0055	○ 267.10.6E0.0055	○ 267.10.6N0.0055	○ 267.10.6N0.0055
50 / 2"	○ 267.11.6E0.0055	○ 267.11.6E0.0055	○ 267.11.6N0.0055	○ 267.11.6N0.0055
65 / 2 ½"	○ 267.12.6E0.0055	○ 267.12.6E0.0055	○ 267.12.6N0.0055	○ 267.12.6N0.0055
80 / 3"	○ 267.14.6E0.0055	○ 267.14.6E0.0055	○ 267.14.6N0.0055	○ 267.14.6N0.0055
100 / 4"	○ 267.15.6E0.0055	○ 267.15.6E0.0055	○ 267.15.6N0.0055	○ 267.15.6N0.0055

set of gaskets for check valve, disk type betw. flanges

DN	EPDM		NBR	
	Ident number	Ident number	Ident number	Ident number
15-25 / 1"	○ 267.08.6E0.0056	○ 267.08.6E0.0056	○ 267.08.6N0.0056	○ 267.08.6N0.0056
32 / 1¼"	○ 267.09.6E0.0056	○ 267.09.6E0.0056	○ 267.09.6N0.0056	○ 267.09.6N0.0056
40 / 1½"	○ 267.10.6E0.0056	○ 267.10.6E0.0056	○ 267.10.6N0.0056	○ 267.10.6N0.0056
50 / 2"	○ 267.11.6E0.0056	○ 267.11.6E0.0056	○ 267.11.6N0.0056	○ 267.11.6N0.0056
65 / 2½"	○ 267.12.6E0.0056	○ 267.12.6E0.0056	○ 267.12.6N0.0056	○ 267.12.6N0.0056
80 / 3"	○ 267.14.6E0.0056	○ 267.14.6E0.0056	○ 267.14.6N0.0056	○ 267.14.6N0.0056
100 / 4"	○ 267.15.6E0.0056	○ 267.15.6E0.0056	○ 267.15.6N0.0056	○ 267.15.6N0.0056

ball for check valve, ball type



DN	weight (kg)
25 / 1"	-
32 / 1¼"	-
40 / 1½"	-
50 / 2"	-
65 / 2½"	-
3"	-
80	-

	EPDM		NBR		PTFE	
	DN	Ident number	Ident number	Ident number	Ident number	Ident number
ball for check valve, ball type	25 / 1"	○ 895.08.6E0.0046	○ 895.08.6N0.0046	○ 895.08.6T0.0046	○ 895.08.6T0.0046	○ 895.08.6T0.0046
	32 / 1¼"	○ 895.09.6E0.0046	○ 895.09.6N0.0046	○ 895.09.6T0.0046	○ 895.09.6T0.0046	○ 895.09.6T0.0046
	40 / 1½"	○ 895.10.6E0.0046	○ 895.10.6N0.0046	○ 895.10.6T0.0046	○ 895.10.6T0.0046	○ 895.10.6T0.0046
	50 / 2"	○ 895.11.6E0.0046	○ 895.11.6N0.0046	○ 895.11.6T0.0046	○ 895.11.6T0.0046	○ 895.11.6T0.0046
	65 / 2"	○ 895.12.6E0.0046	○ 895.12.6N0.0046	○ 895.12.6T0.0046	○ 895.12.6T0.0046	○ 895.12.6T0.0046
	3"	○ 895.13.6E0.0046	○ 895.13.6N0.0046	○ 895.13.6T0.0046	○ 895.13.6T0.0046	○ 895.13.6T0.0046
	80	○ 895.14.6E0.0046	○ 895.14.6N0.0046	○ 895.14.6T0.0046	○ 895.14.6T0.0046	○ 895.14.6T0.0046

I.10 Other Valves

I.10.1 Shut-off valves

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I.10. Other valves

I.10.1 Other valves • Shut-off valves

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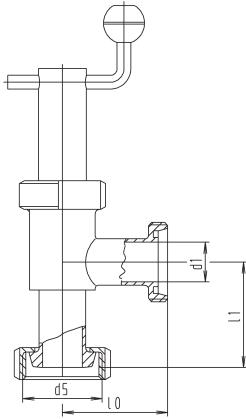
Shut-off valve, angular body, liner/male, DIN	I.10.1-1
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shut off valve, angular body, liner/male, DIN



DN	d1	d5	l0	l1	weight (kg)
25	26	52x1/6"	72	65	-
32	32	58x1/6"	77	70	-
40	38	65x1/6"	82	75	-
50	50	78x1/6"	93	86	-
65	66	95x1/6"	105	97	-
80	81	110x1/4"	115	107	-
100	100	130x1/4"	130	120	-

shut off valve, angular body, liner/male, DIN

DN	304 EPDM polished Ident number	304 EPDM matt Ident number
25	○ 168.08.11E.0039	○ 168.08.21E.0039
32	○ 168.09.11E.0039	○ 168.09.21E.0039
40	○ 168.10.11E.0039	○ 168.10.21E.0039
50	○ 168.11.11E.0039	○ 168.11.21E.0039
65	○ 168.12.11E.0039	○ 168.12.21E.0039
80	○ 168.14.11E.0039	○ 168.14.21E.0039
100	○ 168.15.11E.0039	○ 168.15.21E.0039

1.10 Other valves

1.10.2 Other valves • Adjustable valves page

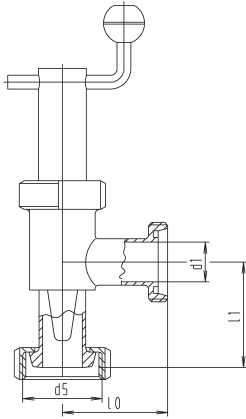
Regulating valve, angular body, liner/male, DIN.....	1.10.2-1
Throttle valve, weld ends (for tubing according to DIN 11850 line 2) (716).....	1.10.2-1
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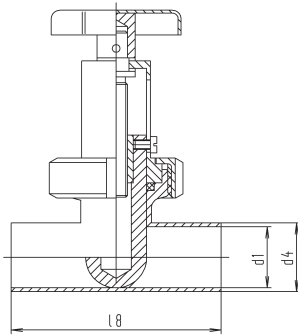
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regulating valve, angular body , liner/male, DIN



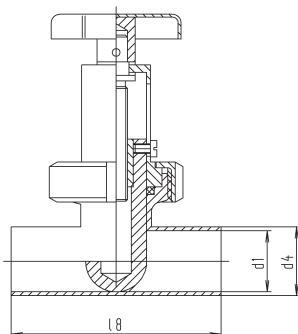
DN	d1	d5	l0	l1	weight (kg)
25	26	52x1/6"	79	72	-
32	32	58x1/6"	85	78	-
40	38	65x1/6"	92	85	-
50	50	78x1/6"	102	95	-
65	66	95x1/6"	117	109	-
80	81	110x1/4"	130	122	-
100	100	130x1/4"	150	140	-

throttle valve, weld ends (for tubing acc. DIN 11850 line 2) (716)



DN	d1	d4	l8	weight (kg)
25	26	29	100	0,810
32	32	35	110	1,130
40	38	41	120	1,750
50	50	53	140	2,730
65	66	70	161	3,960
80	81	85	180	4,270
100	100	104	210	6,350

throttlet valve, weld ends, inch OD (716Z)



DN	d1	d4	l8	weight (kg)
1"	22.1	25.4	100	0,810
1½"	34.8	38.1	120	1,750
2"	47.5	50.8	140	2,730
2½"	60.2	63.5	161	3,960
3"	72.9	76.1	180	4,270
4"	97.6	101.6	210	6,350

regulating valve, angular body, liner/male, DIN

DN	304 polished Ident number	304 matt Ident number
25	○ 168.08.11E.0038	○ 168.08.21E.0038
32	○ 168.09.11E.0038	○ 168.09.21E.0038
40	○ 168.10.11E.0038	○ 168.10.21E.0038
50	○ 168.11.11E.0038	○ 168.11.21E.0038
65	○ 168.12.11E.0038	○ 168.12.21E.0038
80	○ 168.14.11E.0038	○ 168.14.21E.0038
100	○ 168.15.11E.0038	○ 168.15.21E.0038

throttle valve, weld ends (for tubing acc. DIN 11850 line 2) (716)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 166.08.110.0002	○ 166.08.210.0002	○ 166.08.120.0002	○ 166.08.220.0002
32	○ 166.09.110.0002	○ 166.09.210.0002	○ 166.09.120.0002	○ 166.09.220.0002
40	○ 166.10.110.0002	○ 166.10.210.0002	○ 166.10.120.0002	○ 166.10.220.0002
50	○ 166.11.110.0002	○ 166.11.210.0002	○ 166.11.120.0002	○ 166.11.220.0002
65	○ 166.12.110.0002	○ 166.12.210.0002	○ 166.12.120.0002	○ 166.12.220.0002
80	○ 166.14.110.0002	○ 166.14.210.0002	○ 166.14.120.0002	○ 166.14.220.0002
100	○ 166.15.110.0002	○ 166.15.210.0002	○ 166.15.120.0002	○ 166.15.220.0002

throttlet valve, weld ends, inch OD (716Z)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 166.08.110.0003	○ 166.08.210.0003	○ 166.08.120.0003	○ 166.08.220.0003
1½"	○ 166.10.110.0003	○ 166.10.210.0003	○ 166.10.120.0003	○ 166.10.220.0003
2"	○ 166.11.110.0003	○ 166.11.210.0003	○ 166.11.120.0003	○ 166.11.220.0003
2½"	○ 166.12.110.0003	○ 166.12.210.0003	○ 166.12.120.0003	○ 166.12.220.0003
3"	○ 166.13.110.0003	○ 166.13.210.0003	○ 166.13.120.0003	○ 166.13.220.0003
4"	○ 166.15.110.0003	○ 166.15.210.0003	○ 166.15.120.0003	○ 166.15.220.0003

I.10 Other valves

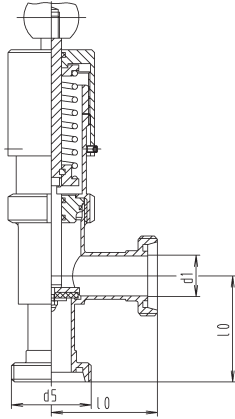
I.10.3 Other valves • Pressure relief valves

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overflow valve, din, male ends (713M)



DN	d1	d5	l0	weight (kg)
25	26	52x1/6"	72	2,300
32	32	58x1/6"	77	2,420
40	38	65x1/6"	82	4,100
50	50	78x1/6"	93	5,700
65	66	95x1/6"	105	8,800
80	81	110x1/4"	115	16,500

overflow valve, din, male ends (713M)

DN	304 EPDM polished Ident number	304 EPDM matt Ident number
25	○ 168.08.11E.0037	○ 168.08.21E.0037
32	○ 168.09.11E.0037	○ 168.09.21E.0037
40	○ 168.10.11E.0037	○ 168.10.21E.0037
50	○ 168.11.11E.0037	○ 168.11.21E.0037
65	○ 168.12.11E.0037	○ 168.12.21E.0037
80	○ 168.14.11E.0037	○ 168.14.21E.0037

I.10 Other valves

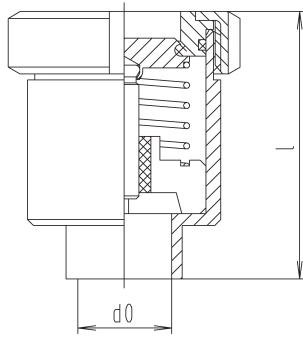
I.10.4 Other valves • Vacuum valves

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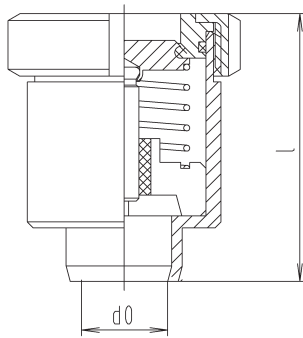
Vacuum valve, weld ends (for tubing according DIN 11850 line 2) (769N)	I.10.4-1
Vacuum valve, weld ends, inch OD (769Z)	I.10.4-1
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Vacuum valve, down facing design, weld ends, with CIP connection and pneumatic operated lifting device	I.10.4-3

vacuum valve, weld ends (for tubing acc. DIN 11850 line 2) (769N)



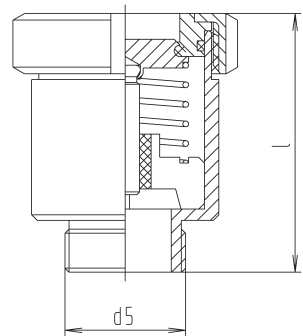
DN	d0	l	weight (kg)
25	26	90	1,080
32	32	90	1,080
40	38	91	2,120
50	50	91	2,120

vacuum valve, weld ends, inch OD (769Z)



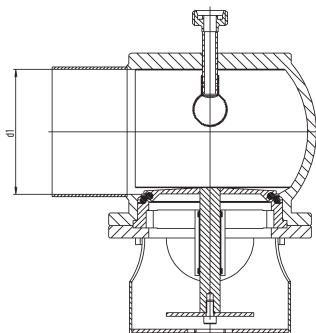
DN	d0	l	weight (kg)
1"	22.1	90	1,080
1¼"	28.5	90	1,080
1½"	34.8	91	2,120
2"	47.5	91	2,120

vacuum valve, R-thread (769)



DN	d5	l	weight (kg)
25	R 1"	90	1,080
32	R 1 1/4"	90	1,080
40	R 1 1/2"	91	2,120
50	R 2"	91	2,120

vacuum valve, down facing design, weld ends, with cip connection (769A)



DN	d1	O-Ring	O-Ring	weight (kg)
65	66	64 x 5,0	75 x 5,0	-
100	100	91,44 x 5,33	102 x 5,0	-

vacuum valve, weld ends (for tubing acc. DIN I 1850 line 2) (769N)

DN	304 NBR poliirt Ident number	316 L NBR polished Ident number
25	○ 167.08.11N.0023	○ 167.08.12N.0023
32	○ 167.09.11N.0023	○ 167.09.12N.0023
40	○ 167.10.11N.0023	○ 167.10.12N.0023
50	○ 167.11.11N.0023	○ 167.11.12N.0023

vacuum valve, weld ends, inch OD (769Z)

DN	304 NBR polished Ident number	316 L NBR polished Ident number
1"	○ 167.08.11N.0024	○ 167.08.12N.0024
1¼"	○ 167.09.11N.0024	○ 167.09.12N.0024
1½"	○ 167.10.11N.0024	○ 167.10.12N.0024
2"	○ 167.11.11N.0024	○ 167.11.12N.0024

vacuum valve, R-thread (769)

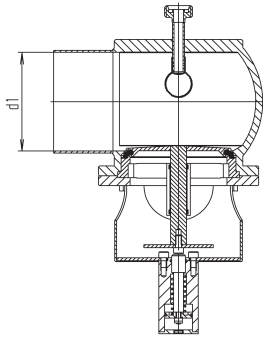
DN	304 NBR polished Ident number	316 L NBR polished Ident number
25	○ 167.08.11N.0000	○ 167.08.12N.0000
32	○ 167.09.11N.0000	○ 167.09.12N.0000
40	○ 167.10.11N.0000	○ 167.10.12N.0000
50	○ 167.11.11N.0000	○ 167.11.12N.0000

vacuum valve, down facing design, weld ends, with cip connection (769A)

DN	304 EPDM polished Ident number	304 EPDM matt Ident number
65	○ 167.12.11E.0013	○ 167.12.21E.0013
100	○ 167.15.11E.0013	○ 167.15.21E.0013

vacuum valve, down facing design, weld ends, with cip con. and pneu. operated lifting device

nocapius

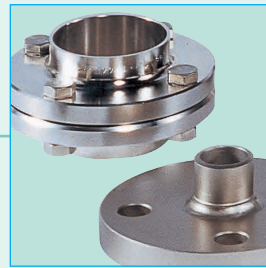
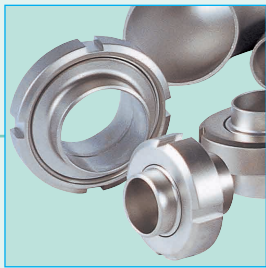


DN	dl	O-Ring 1	O-Ring 2	weight (kg)
65	66	64 x 5,0	75 x 5,0	-
100	100	91,44 x 5,33	102 x 5,0	-

vacuum valve, down facing design, weld ends, with
cip con. and pneu. operated lifting device

DN	304 EPDM polished Ident number
65	○ 167.12.11E.0014
100	○ 167.15.11E.0014

installation material



2. Installation Material



Piping, tubing and fittings

2.1



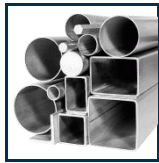
Piping connections

2.2



Pipe hangers, accessories, profiles

2.3



Construction tubes, profiles

2.4

2.1 Pipes, tubing and fittings

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<hr/>	
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Bends (for tubing similar to DIN 11850, line 1)	5
Bends, inch	7
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<hr/>	
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<hr/>	
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<hr/>	
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2.1 Pipes, tubing and fittings

2.1.2 Bends

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2.1 Pipes, tubing and fittings

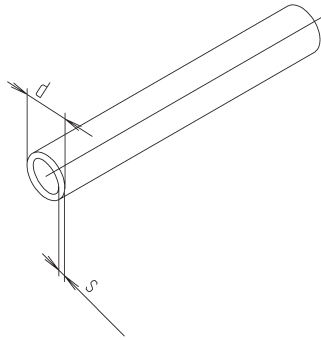
2.1.1 Pipes, tubing

page

Technical Information

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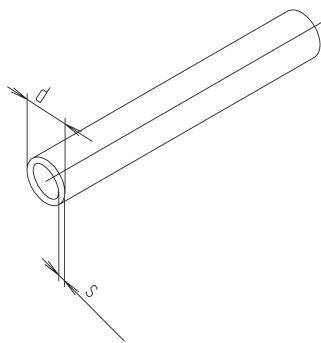
tubing acc. DIN 11850 line 2



DN	d	s	bar 20 C°/150 C°	weight (kg)
10	13	1.5	355/260	0,430
15	19	1.5	240/180	0,660
20	23	1.5	200/145	0,810
25	29	1.5	155/115	1,030
32	35	1.5	130/95	1,260
40	41	1.5	110/80	1,500
50	53	1.5	85/60	1,900
65	70	2	85/65	3,430
80	85	2	70/50	4,160
100	104	2	55/40	5,030
125	129	2	45/35	6,360
150	154	2	35/25	7,490
200	204	2	30/20	10,120

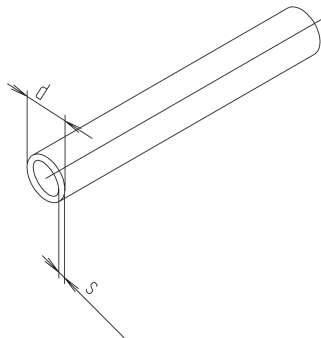
tubing acc. DIN 11850 line 2

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DN	d	s	bar 20 C°/150 C°	weight (kg)
15	19	1.5	240/180	0,660
20	23	1.5	200/145	0,810
25	29	1.5	155/115	1,030
32	35	1.5	130/95	1,260
40	41	1.5	110/80	1,500
50	53	1.5	85/60	1,900
65	70	2	85/65	3,430
80	85	2	70/50	4,160
100	104	2	55/40	5,030
125	129	2	45/35	6,360
150	154	2	35/25	7,490
200	204	2	30/20	10,120

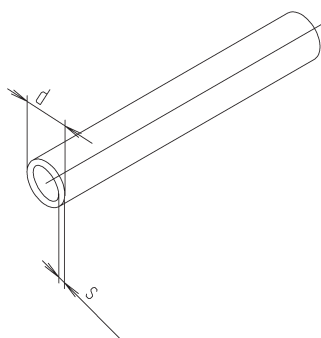
tubing similar DIN 11850



DN	d	s	weight (kg)
10	12	1.5	0,394
15	18	1.5	0,620
20	22	1.5	0,770
25	28	1.5	0,995
32	34	1.5	1,221
40	40	1.5	1,446
50	52	1.5	1,897

tubing similar DIN 11850

nocapius



DN	d	s	weight (kg)
15	18	1.5	0,620
20	22	1.5	0,770
25	28	1.5	0,995
32	34	1.5	1,221
40	40	1.5	1,446
50	52	1.5	1,897

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 CC Ident number	304 CD Ident number	316 L CC Ident number	316 L CD Ident number
10	○ RI1.04.610.1100	○ RI2.04.610.1100	○ RI1.04.620.1100	○ RI2.04.620.1100
15	● RI1.06.610.1100	○ RI2.06.610.1100	● RI1.06.620.1100	○ RI2.06.620.1100
20	● RI1.07.610.1100	○ RI2.07.610.1100	● RI1.07.620.1100	○ RI2.07.620.1100
25	● RI1.08.610.1100	○ RI2.08.610.1100	● RI1.08.620.1100	○ RI2.08.620.1100
32	● RI1.09.610.1100	○ RI2.09.610.1100	● RI1.09.620.1100	○ RI2.09.620.1100
40	● RI1.10.610.1100	○ RI2.10.610.1100	● RI1.10.620.1100	○ RI2.10.620.1100
50	● RI1.11.610.1100	○ RI2.11.610.1100	● RI1.11.620.1100	○ RI2.11.620.1100
65	● RI1.12.610.1000	● RI2.12.610.1000	● RI1.12.620.1000	● RI2.12.620.1000
80	● RI1.14.610.1000	● RI2.14.610.1000	● RI1.14.620.1000	● RI2.14.620.1000
100	● RI1.15.610.1000	● RI2.15.610.1000	● RI1.15.620.1000	● RI2.15.620.1000
125	● RI1.16.610.1000	● RI2.16.610.1000	● RI1.16.620.1000	● RI2.16.620.1000
150	● RI1.17.610.1000	● RI2.17.610.1000	● RI1.17.620.1000	● RI2.17.620.1000
200	○ RI1.18.610.1000	○ RI2.18.610.1000	○ RI1.18.620.1000	○ RI2.18.620.1000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 BC Ident number	304 BD Ident number	316 L BC Ident number	316 L BD Ident number
15	○ 614.06.610.1100	○ 615.06.610.1100	○ 614.06.620.1100	○ 615.06.620.1100
20	○ 614.07.610.1100	○ 615.07.610.1100	○ 614.07.620.1100	○ 615.07.620.1100
25	○ 614.08.610.1100	○ 615.08.610.1100	○ 614.08.620.1100	○ 615.08.620.1100
32	○ 614.09.610.1100	○ 615.09.610.1100	○ 614.09.620.1100	○ 615.09.620.1100
40	○ 614.10.610.1100	○ 615.10.610.1100	○ 614.10.620.1100	○ 615.10.620.1100
50	○ 614.11.610.1100	○ 615.11.610.1100	○ 614.11.620.1100	○ 615.11.620.1100
65	○ 614.12.610.1000	○ 615.12.610.1000	○ 614.12.620.1000	○ 615.12.620.1000
80	○ 614.14.610.1000	○ 615.14.610.1000	○ 614.14.620.1000	○ 615.14.620.1000
100	○ 614.15.610.1000	○ 615.15.610.1000	○ 614.15.620.1000	○ 615.15.620.1000
125	○ 614.16.610.1000	○ 615.16.610.1000	○ 614.16.620.1000	○ 615.16.620.1000
150	○ 614.17.610.1000	○ 615.17.610.1000	○ 614.17.620.1000	○ 615.17.620.1000
200	○ 614.18.610.1000	○ 615.18.610.1000	○ 614.18.620.1000	○ 615.18.620.1000

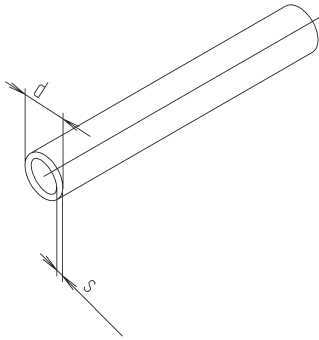
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 CC Ident number	304 CD Ident number	316 L CC Ident number	316 L CD Ident number
10	○ RI1.04.610.1300	○ RI2.04.610.1300	● RI1.04.620.1300	○ RI2.04.620.1300
15	● RI1.06.610.1300	● RI2.06.610.1300	● RI1.06.620.1300	● RI2.06.620.1300
20	● RI1.07.610.1300	● RI2.07.610.1300	● RI1.07.620.1300	● RI2.07.620.1300
25	● RI1.08.610.1300	● RI2.08.610.1300	● RI1.08.620.1300	● RI2.08.620.1300
32	● RI1.09.610.1300	● RI2.09.610.1300	● RI1.09.620.1300	● RI2.09.620.1300
40	● RI1.10.610.1300	● RI2.10.610.1300	● RI1.10.620.1300	● RI2.10.620.1300
50	● RI1.11.610.1300	● RI2.11.610.1300	● RI1.11.620.1300	● RI2.11.620.1300

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 BC Ident number	304 BD Ident number	316 L BC Ident number	316 L BD Ident number
15	○ 614.06.610.1300	○ 615.06.610.1300	○ 614.06.620.1300	○ 615.06.620.1300
20	○ 614.07.610.1300	○ 615.07.610.1300	○ 614.07.620.1300	○ 615.07.620.1300
25	○ 614.08.610.1300	○ 615.08.610.1300	● 614.08.620.1300	○ 615.08.620.1300
32	○ 614.09.610.1300	○ 615.09.610.1300	○ 614.09.620.1300	○ 615.09.620.1300
40	○ 614.10.610.1300	○ 615.10.610.1300	○ 614.10.620.1300	○ 615.10.620.1300
50	○ 614.11.610.1300	○ 615.11.610.1300	○ 614.11.620.1300	○ 615.11.620.1300

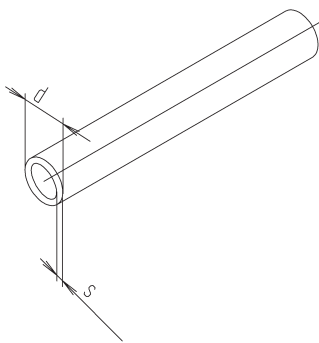
tubing, similar DIN 11850, inch



DN	d	s	weight (kg)
1"	25.4	1.25	0,756
1 ¼"	31.8	1.25	0,956
1 ½"	38.1	1.5	1,375
2"	50.8	1.5	1,852
2 ½"	63.5	1.5	2,329
3"	76.1	2	3,711
4"	101.6	2	4,982

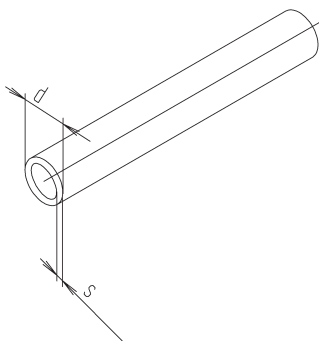
tubing, similar DIN 11850, inch

nocap plus



DN	d	s	weight (kg)
1"	25.4	1.25	0,756
1 ¼"	31.8	1.25	0,956
1 ½"	38.1	1.5	1,375
2"	50.8	1.5	1,852
2 ½"	63.5	1.5	2,329
3"	76.1	2	3,711
4"	101.6	2	4,982

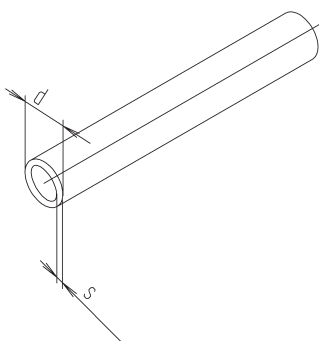
tubing SMS



DN	d	s	weight (kg)
25	25	1.2	0,710
38	38	1.2	1,100
51	51	1.2	1,490
63,5	63.5	1.5	2,310
76	76.1	1.6	2,960
101,6	101.6	2	4,950

tubing SMS

nocap plus



DN	d	s	weight (kg)
25	25	1.2	0,710
38	38	1.2	1,100
51	51	1.2	1,490
63,5	63.5	1.5	2,310
76	76.1	1.6	2,960
101,6	101.6	2	4,950

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

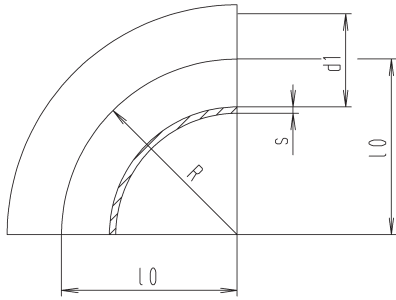
DN	304 CC Ident number	304 CD Ident number	316 L CC Ident number	316 L CD Ident number
1"	○ R11.08.610.1400	○ R12.08.610.1400	○ R11.08.620.1400	○ R12.08.620.1400
1 ¼"	○ R11.09.610.1400	○ R12.09.610.1400	○ R11.09.620.1400	○ R12.09.620.1400
1 ½"	○ R11.10.610.1410	○ R12.10.610.1410	○ R11.10.620.1410	○ R12.10.620.1410
2"	○ R11.11.610.1410	○ R12.11.610.1410	○ R11.11.620.1410	○ R12.11.620.1410
2 ½"	○ R11.12.610.1410	○ R12.12.610.1410	○ R11.12.620.1410	○ R12.12.620.1410
3"	○ R11.13.610.1420	○ R12.13.610.1420	○ R11.13.620.1420	○ R12.13.620.1420
4"	○ R11.15.610.1420	○ R12.15.610.1420	○ R11.15.620.1420	○ R12.15.620.1420

DN	304 BC Ident number	304 BD Ident number	316 L BC Ident number	316 L BD Ident number
1"	○ R14.08.610.1400	○ R15.08.610.1400	○ R14.08.620.1400	○ R15.08.620.1400
1 ¼"	○ R14.09.610.1400	○ R15.09.610.1400	○ R14.09.620.1400	○ R15.09.620.1400
1 ½"	○ R14.10.610.1410	○ R15.10.610.1410	○ R14.10.620.1410	○ R15.10.620.1410
2"	○ R14.11.610.1410	○ R15.11.610.1410	○ R14.11.620.1410	○ R15.11.620.1410
2 ½"	○ R14.12.610.1410	○ R15.12.610.1410	○ R14.12.620.1410	○ R15.12.620.1410
3"	○ R14.13.610.1420	○ R15.13.610.1420	○ R14.13.620.1420	○ R15.13.620.1420
4"	○ R14.15.610.1420	○ R15.15.610.1420	○ R14.15.620.1420	○ R15.15.620.1420

DN	304 metal blank Ident number	316 L metal blank Ident number
25	○ 611.08.610.0016	○ 611.08.620.0016
38	○ 611.10.610.0016	○ 611.10.620.0016
51	○ 611.11.610.0016	○ 611.11.620.0016
63,5	○ 611.12.610.0016	○ 611.12.620.0016
76	○ 611.13.610.0016	○ 611.13.620.0016
101,6	○ 611.15.610.0016	○ 611.15.620.0016

DN	304 brushed Ident number	316 L brushed Ident number
25	○ 617.08.310.0016	○ 617.08.320.0016
38	○ 617.10.310.0016	○ 617.10.320.0016
51	○ 617.11.310.0016	○ 617.11.320.0016
63,5	○ 617.12.310.0016	○ 617.12.320.0016
76	○ 617.13.310.0016	○ 617.13.320.0016
101,6	○ 617.15.310.0016	○ 617.15.320.0016

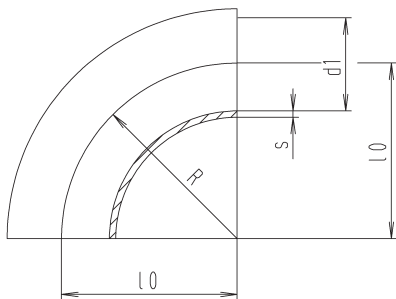
welding bend 90°, DIN 11852 (for tubing acc. DIN 11850 line 2) (422N)



DN	dl	l0	s	R	weight (kg)
10	10	26	1.5	26	0,020
15	16	35	1.5	35	0,040
20	20	40	1.5	40	0,060
25	26	50	1.5	50	0,085
32	32	55	1.5	55	0,110
40	38	60	1.5	60	0,135
50	50	70	1.5	70	0,220
65	66	80	2	80	0,400
80	81	90	2	90	0,570
100	100	100	2	100	0,760
125	125	187.5	2	187.5	1,780
150	150	225	2	225	2,750
200	200	300	2	300	4,750
250	250	375	2	375	7,500

welding bend 90°, DIN 11852 (for tubing acc. DIN 11850 line 2) (422N)

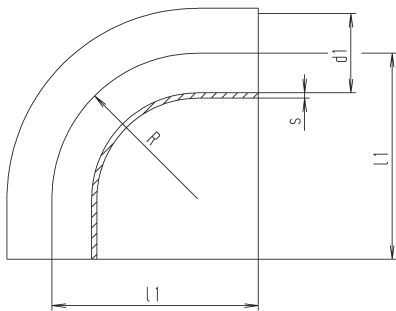
nocapius



DN	dl	l0	s	R	weight (kg)
10	10	26	1.5	26	0,020
15	16	35	1.5	35	0,040
20	20	40	1.5	40	0,060
25	26	50	1.5	50	0,085
32	32	55	1.5	55	0,110
40	38	60	1.5	60	0,135
50	50	70	1.5	70	0,220
65	66	80	2	80	0,400
80	81	90	2	90	0,570
100	100	100	2	100	0,760
125	125	187.5	2	187.5	1,780
150	150	225	2	225	2,750
200	200	300	2	300	4,750
250	250	375	2	375	7,500

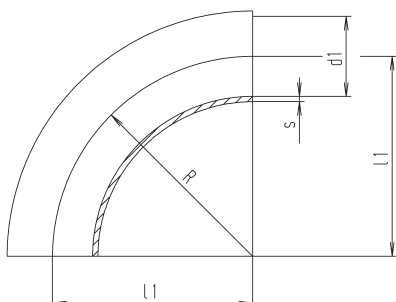
welding bend 90°, long, DIN 11852 (for tub. acc. DIN 11850 line 2) (422N)

nocapius



DN	dl	l1	R	s	weight (kg)
10	10	51	26	1.5	0,040
15	16	60	35	1.5	0,070
20	20	65	40	1.5	0,090
25	26	90	50	1.5	0,160
32	32	95	55	1.5	0,210
40	38	100	60	1.5	0,255
50	50	110	70	1.5	0,365
65	66	120	80	2	0,700
80	81	145	90	2	1,050
100	100	155	100	2	1,360
125	125	245	187.5	2	2,600

welding bend 90°, 5D-type (for tubing acc. DIN 11850 line 2) (422B)



DN	dl	l1	R	s	weight (kg)
25	26	65	65	1.5	0,145
32	32	75	75	1.5	0,150
40	38	95	95	1.5	0,295
50	50	125	125	1.5	0,380
65	66	160	160	2	0,855
80	81	200	200	2	1,300
100	100	250	250	2	2,000
125	125	313	313	2	3,100

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 141.04.110.0010	○ 141.04.210.0010	● 141.04.120.0010	○ 141.04.220.0010
15	● 141.06.110.0010	● 141.06.210.0010	● 141.06.120.0010	● 141.06.220.0010
20	● 141.07.110.0010	● 141.07.210.0010	● 141.07.120.0010	● 141.07.220.0010
25	● 141.08.110.0010	● 141.08.210.0010	● 141.08.120.0010	● 141.08.220.0010
32	● 141.09.110.0010	● 141.09.210.0010	● 141.09.120.0010	● 141.09.220.0010
40	● 141.10.110.0010	● 141.10.210.0010	● 141.10.120.0010	● 141.10.220.0010
50	● 141.11.110.0010	● 141.11.210.0010	● 141.11.120.0010	● 141.11.220.0010
65	● 141.12.110.0000	● 141.12.210.0000	● 141.12.120.0000	● 141.12.220.0000
80	● 141.14.110.0000	● 141.14.210.0000	● 141.14.120.0000	● 141.14.220.0000
100	● 141.15.110.0000	● 141.15.210.0000	● 141.15.120.0000	● 141.15.220.0000
125	● 141.16.110.0000	● 141.16.210.0000	● 141.16.120.0000	● 141.16.220.0000
150	● 141.17.110.0000	● 141.17.210.0000	● 141.17.120.0000	● 141.17.220.0000
200	● 141.18.110.0000	● 141.18.210.0000	○ 141.18.120.0000	● 141.18.220.0000
250	○ 141.19.110.0000	● 141.19.210.0000	○ 141.19.120.0000	● 141.19.220.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
10	○ 141.04.120.0310	○ 141.04.220.0310
15	○ 141.06.120.0310	○ 141.06.220.0310
20	○ 141.07.120.0310	○ 141.07.220.0310
25	○ 141.08.120.0310	○ 141.08.220.0310
32	○ 141.09.120.0310	○ 141.09.220.0310
40	○ 141.10.120.0310	○ 141.10.220.0310
50	○ 141.11.120.0310	○ 141.11.220.0310
65	○ 141.12.120.0300	○ 141.12.220.0300
80	○ 141.14.120.0300	○ 141.14.220.0300
100	○ 141.15.120.0300	○ 141.15.220.0300
125	○ 141.16.120.0300	○ 141.16.220.0300
150	○ 141.17.120.0300	○ 141.17.220.0300
200	○ 141.18.120.0300	○ 141.18.220.0300
250	○ 141.19.120.0300	○ 141.19.220.0300

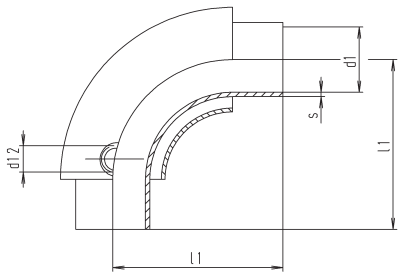
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 141.04.110.0015	○ 141.04.210.0015	○ 141.04.120.0015	○ 141.04.220.0015
15	○ 141.06.110.0015	○ 141.06.210.0015	○ 141.06.120.0015	○ 141.06.220.0015
20	○ 141.07.110.0015	○ 141.07.210.0015	○ 141.07.120.0015	○ 141.07.220.0015
25	○ 141.08.110.0015	○ 141.08.210.0015	○ 141.08.120.0015	○ 141.08.220.0015
32	○ 141.09.110.0015	○ 141.09.210.0015	○ 141.09.120.0015	○ 141.09.220.0015
40	○ 141.10.110.0015	○ 141.10.210.0015	○ 141.10.120.0015	○ 141.10.220.0015
50	○ 141.11.110.0015	○ 141.11.210.0015	○ 141.11.120.0015	○ 141.11.220.0015
65	○ 141.12.110.0015	○ 141.12.210.0015	○ 141.12.120.0015	○ 141.12.220.0015
80	○ 141.14.110.0015	○ 141.14.210.0015	○ 141.14.120.0015	○ 141.14.220.0015
100	○ 141.15.110.0015	○ 141.15.210.0015	○ 141.15.120.0015	○ 141.15.220.0015
125	○ 141.16.110.0015	○ 141.16.210.0015	○ 141.16.120.0015	○ 141.16.220.0015

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

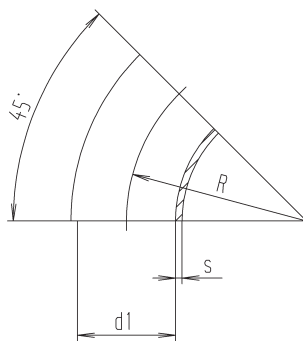
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 141.08.110.0018	○ 141.08.210.0018	○ 141.08.120.0018	○ 141.08.220.0018
32	○ 141.09.110.0018	○ 141.09.210.0018	○ 141.09.120.0018	○ 141.09.220.0018
40	○ 141.10.110.0018	○ 141.10.210.0018	○ 141.10.120.0018	○ 141.10.220.0018
50	○ 141.11.110.0018	○ 141.11.210.0018	○ 141.11.120.0018	○ 141.11.220.0018
65	● 141.12.110.0012	● 141.12.210.0012	● 141.12.120.0012	● 141.12.220.0012
80	● 141.14.110.0012	● 141.14.210.0012	● 141.14.120.0012	● 141.14.220.0012
100	● 141.15.110.0012	● 141.15.210.0012	● 141.15.120.0012	● 141.15.220.0012
125	○ 141.16.110.0012	○ 141.16.210.0012	○ 141.16.120.0012	○ 141.16.220.0012

welding bend 90°, with heating jacket (for tub. acc. DIN 11850 line 2)



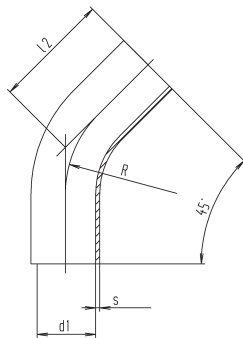
DN	d1	d12	l1	s	weight (kg)
25	26	R 1/2"	90	1.5	0,350
32	32	R 1/2"	95	1.5	0,430
40	38	R 1/2"	100	1.5	0,560
50	50	R 1/2"	110	1.5	0,850
65	66	R 3/4"	120	2	1,400
80	81	R 3/4"	145	2	2,100

welding bend 45°, DIN 11852 (for tubing acc. DIN 11850 line 2) (422A)



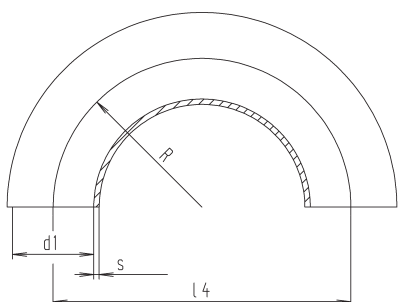
DN	d1	R	s	weight (kg)
10	10	26	1.5	0,010
15	16	35	1.5	0,020
20	20	40	1.5	0,030
25	26	50	1.5	0,043
32	32	55	1.5	0,055
40	38	60	1.5	0,070
50	50	70	1.5	0,110
65	66	80	2	0,200
80	81	90	2	0,250
100	100	100	2	0,380
125	125	187.5	2	0,890
150	150	225	2	1,400

welding bend 45°, long, DIN 11852 (for tubing acc. DIN 11850 line 2) (422A)



DN	d1	l2	R	s	weight (kg)
10	10	35.8	26	1.5	0,031
15	16	39.5	35	1.5	0,045
20	20	41.6	40	1.5	0,062
25	26	60.7	50	1.5	0,120
32	32	62.8	55	1.5	0,150
40	38	64.9	60	1.5	0,185
50	50	69	70	1.5	0,265
65	66	73.1	80	2	0,490
80	81	92.3	90	2	0,750
100	100	96.4	100	2	0,970
125	125	135.2	187.5	2	1,630

welding bend 180°, DIN 11852-BS (for tubing acc. DIN 11850 line 2) (486)



DN	d1	l4	R	s	weight (kg)
10	10	52	26	1.5	0,040
15	16	70	35	1.5	0,080
20	20	80	40	1.5	0,110
25	26	100	50	1.5	0,170
32	32	110	55	1.5	0,240
40	38	120	60	1.5	0,300
50	50	140	70	1.5	0,440
65	66	160	80	2	0,890
80	81	180	90	2	1,220
100	100	200	100	2	1,640
125	125	375	187.5	2	3,760
150	150	450	225	2	5,500

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	1.4301 matt Ident number	316 L matt Ident number
25	○ 141.08.210.0019	○ 141.08.220.0019
32	○ 141.09.210.0019	○ 141.09.220.0019
40	○ 141.10.210.0019	○ 141.10.220.0019
50	○ 141.11.210.0019	○ 141.11.220.0019
65	○ 141.12.210.0019	○ 141.12.220.0019
80	○ 141.14.210.0019	○ 141.14.220.0019

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 141.04.110.0013	○ 141.04.210.0013	○ 141.04.120.0013	○ 141.04.220.0013
15	● 141.06.110.0013	○ 141.06.210.0013	● 141.06.120.0013	○ 141.06.220.0013
20	● 141.07.110.0013	○ 141.07.210.0013	● 141.07.120.0013	○ 141.07.220.0013
25	● 141.08.110.0013	○ 141.08.210.0013	● 141.08.120.0013	○ 141.08.220.0013
32	● 141.09.110.0013	○ 141.09.210.0013	● 141.09.120.0013	○ 141.09.220.0013
40	● 141.10.110.0013	○ 141.10.210.0013	● 141.10.120.0013	○ 141.10.220.0013
50	● 141.11.110.0013	○ 141.11.210.0013	● 141.11.120.0013	○ 141.11.220.0013
65	● 141.12.110.0001	● 141.12.210.0001	● 141.12.120.0001	● 141.12.220.0001
80	● 141.14.110.0001	● 141.14.210.0001	● 141.14.120.0001	● 141.14.220.0001
100	● 141.15.110.0001	● 141.15.210.0001	● 141.15.120.0001	● 141.15.220.0001
125	● 141.16.110.0001	● 141.16.210.0001	○ 141.16.120.0001	● 141.16.220.0001
150	● 141.17.110.0001	● 141.17.210.0001	● 141.17.120.0001	○ 141.17.220.0001

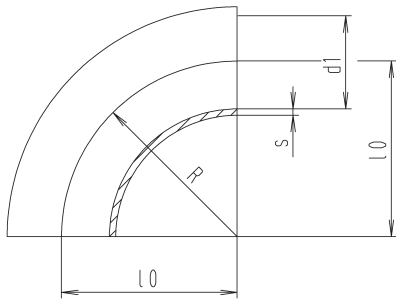
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 141.04.110.0025	○ 141.04.210.0025	○ 141.04.120.0025	○ 141.04.220.0025
15	○ 141.06.110.0025	○ 141.06.210.0025	○ 141.06.120.0025	○ 141.06.220.0025
20	○ 141.07.110.0025	○ 141.07.210.0025	○ 141.07.120.0025	○ 141.07.220.0025
25	○ 141.08.110.0025	○ 141.08.210.0025	○ 141.08.120.0025	○ 141.08.220.0025
32	○ 141.09.110.0025	○ 141.09.210.0025	○ 141.09.120.0025	○ 141.09.220.0025
40	○ 141.10.110.0025	○ 141.10.210.0025	○ 141.10.120.0025	○ 141.10.220.0025
50	○ 141.11.110.0025	○ 141.11.210.0025	○ 141.11.120.0025	○ 141.11.220.0025
65	○ 141.12.110.0025	○ 141.12.210.0025	○ 141.12.120.0025	○ 141.12.220.0025
80	○ 141.14.110.0025	○ 141.14.210.0025	○ 141.14.120.0025	○ 141.14.220.0025
100	○ 141.15.110.0025	○ 141.15.210.0025	○ 141.15.120.0025	○ 141.15.220.0025
125	○ 141.16.110.0025	○ 141.16.210.0025	○ 141.16.120.0025	○ 141.16.220.0025

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 141.04.110.0024	○ 141.04.210.0024	○ 141.04.120.0024	○ 141.04.220.0024
15	○ 141.06.110.0024	○ 141.06.210.0024	○ 141.06.120.0024	○ 141.06.220.0024
20	○ 141.07.110.0024	○ 141.07.210.0024	○ 141.07.120.0024	○ 141.07.220.0024
25	○ 141.08.110.0024	○ 141.08.210.0024	○ 141.08.120.0024	○ 141.08.220.0024
32	● 141.09.110.0024	○ 141.09.210.0024	● 141.09.120.0024	○ 141.09.220.0024
40	○ 141.10.110.0024	○ 141.10.210.0024	○ 141.10.120.0024	○ 141.10.220.0024
50	● 141.11.110.0024	○ 141.11.210.0024	● 141.11.120.0024	○ 141.11.220.0024
65	● 141.12.110.0007	● 141.12.210.0007	○ 141.12.120.0007	● 141.12.220.0007
80	● 141.14.110.0007	○ 141.14.210.0007	○ 141.14.120.0007	○ 141.14.220.0007
100	○ 141.15.110.0007	● 141.15.210.0007	○ 141.15.120.0007	○ 141.15.220.0007
125	○ 141.16.110.0007	○ 141.16.210.0007	○ 141.16.120.0007	○ 141.16.220.0007
150	○ 141.17.110.0007	○ 141.17.210.0007	○ 141.17.120.0007	○ 141.17.220.0007

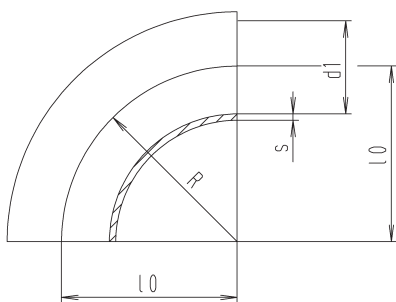
welding bend 90°, DIN 11852 (for tubing similar DIN 11850) (422)



DN	dl	l0	R	s	weight (kg)
10	9	26	26	1.5	0,010
15	15	35	35	1.5	0,020
20	19	40	40	1.5	0,040
25	25	50	50	1.5	0,050
32	31	55	55	1.5	0,080
40	37	60	60	1.5	0,100
50	49	70	70	1.5	0,170

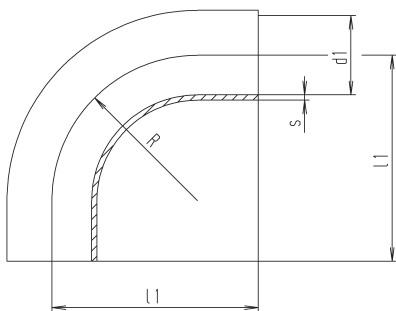
welding bend 90°, DIN 11852 (for tubing similar DIN 11850) (422)

nocapius



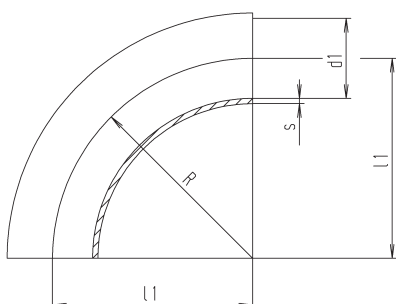
DN	dl	l0	R	s	weight (kg)
10	9	26	26	1.5	0,010
15	15	35	35	1.5	0,020
20	19	40	40	1.5	0,040
25	25	50	50	1.5	0,050
32	31	55	55	1.5	0,080
40	37	60	60	1.5	0,100
50	49	70	70	1.5	0,170

bend 90°, expanding ends 1,5 mm DIN (for tub. similar DIN 11850) (433)



DN	dl	l1	R	s	weight (kg)
10	9	38	26	1.5	0,025
15	15	47	35	1.5	0,050
20	19	52	40	1.5	0,070
25	25	70	50	1.5	0,110
32	31	78	55	1.5	0,155
40	37	85	60	1.5	0,200
50	49	97	70	1.5	0,330
65	66	110	80	2	0,560
80	81	118	90	2	0,790
100	100	140	100	2	1,20

welding bend 90°, 5D-type, (for tubing similar DIN 11850) (422B)



DN	dl	l1	R	s	weight (kg)
25	25	65	65	1.5	0,145
32	31	75	75	1.5	0,150
40	37	95	95	1.5	0,295
50	49	125	125	1.5	0,380

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 141.04.110.0002	● 141.04.210.0002	● 141.04.120.0002	● 141.04.220.0002
15	● 141.06.110.0002	● 141.06.210.0002	● 141.06.120.0002	● 141.06.220.0002
20	● 141.07.110.0002	● 141.07.210.0002	● 141.07.120.0002	● 141.07.220.0002
25	● 141.08.110.0002	● 141.08.210.0002	● 141.08.120.0002	● 141.08.220.0002
32	● 141.09.110.0002	● 141.09.210.0002	● 141.09.120.0002	● 141.09.220.0002
40	● 141.10.110.0002	● 141.10.210.0002	● 141.10.120.0002	● 141.10.220.0002
50	● 141.11.110.0002	● 141.11.210.0002	● 141.11.120.0002	● 141.11.220.0002
available in metal blank as well - from DN 65 see series 2				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
10	○ 141.04.120.0302	○ 141.04.220.0302
15	○ 141.06.120.0302	○ 141.06.220.0302
20	○ 141.07.120.0302	○ 141.07.220.0302
25	○ 141.08.120.0302	○ 141.08.220.0302
32	○ 141.09.120.0302	○ 141.09.220.0302
40	○ 141.10.120.0302	○ 141.10.220.0302
50	○ 141.11.120.0302	○ 141.11.220.0302
from DN 65 series 2		

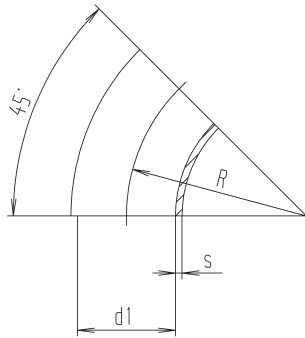
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 141.04.110.0006	○ 141.04.210.0006	● 141.04.120.0006	○ 141.04.220.0006
15	● 141.06.110.0006	● 141.06.210.0006	● 141.06.120.0006	● 141.06.220.0006
20	● 141.07.110.0006	● 141.07.210.0006	● 141.07.120.0006	● 141.07.220.0006
25	● 141.08.110.0006	● 141.08.210.0006	● 141.08.120.0006	● 141.08.220.0006
32	● 141.09.110.0006	● 141.09.210.0006	● 141.09.120.0006	● 141.09.220.0006
40	● 141.10.110.0006	● 141.10.210.0006	● 141.10.120.0006	● 141.10.220.0006
50	● 141.11.110.0006	● 141.11.210.0006	● 141.11.120.0006	○ 141.11.220.0006
65	● 141.12.110.0003	● 141.12.210.0003	● 141.12.120.0003	○ 141.12.220.0003
80	● 141.14.110.0003	● 141.14.210.0003	● 141.14.120.0003	○ 141.14.220.0003
100	● 141.15.110.0003	● 141.15.210.0003	● 141.15.120.0003	○ 141.15.220.0003
from DN 65 series 2				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

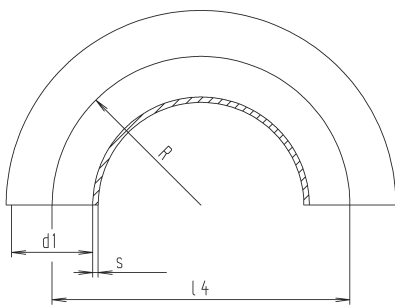
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 141.08.110.0012	● 141.08.210.0012	○ 141.08.120.0012	○ 141.08.220.0012
32	○ 141.09.110.0012	● 141.09.210.0012	○ 141.09.120.0012	○ 141.09.220.0012
40	● 141.10.110.0012	● 141.10.210.0012	● 141.10.120.0012	● 141.10.220.0012
50	● 141.11.110.0012	● 141.11.210.0012	● 141.11.120.0012	● 141.11.220.0012
from DN 65 series 2				

welding bend 45°, DIN II852 (for tubing similar DIN II850) (422A)



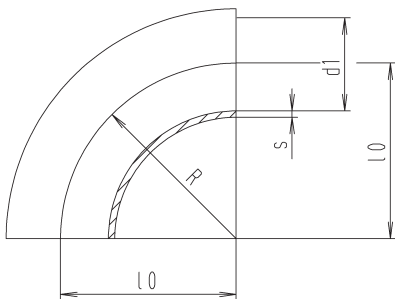
DN	d1	R	s	weight (kg)
10	9	26	1.5	0,008
15	15	35	1.5	0,010
20	19	40	1.5	0,020
25	25	50	1.5	0,030
32	31	55	1.5	0,040
40	37	60	1.5	0,050
50	49	70	1.5	0,090

welding bend 180°, DIN II852 (for tubing similar DIN II850) (486)



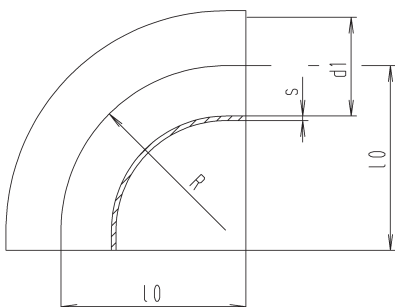
DN	d1	l4	R	s	weight (kg)
10	9	52	26	1.5	0,030
15	15	70	35	1.5	0,070
20	19	80	40	1.5	0,100
25	25	100	50	1.5	0,160
32	31	110	55	1.5	0,220
40	37	120	60	1.5	0,280
50	49	140	70	1.5	0,420

bend 90°, inch (422Z)



DN	d1	l0	R	s	weight (kg)
1"	22.9	27.5	27.5	1.25	0,030
1½"	35.1	45	45	1.5	0,095
2"	47.8	67.5	67.5	1.5	0,190
2½"	60.2	82.5	82.5	1.63	0,290
3"	72.8	95	95	1.63	0,500
4"	97.4	133.5	133.5	2.11	1,100

welding bend 90°, 1,5D, short, inch (422Z)



DN	d1	l0	R	s	weight (kg)
1"	22.2	44	37.4	1.6	0,066
1½"	34.9	64	57	1.6	0,145
2"	47.6	89	76.5	1.6	0,280
2½"	60.3	114	95.3	1.6	0,440
3"	72.9	134	114.2	1.6	0,620
4"	97.6	174	152.5	2	1,320

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 141.04.110.0001	○ 141.04.210.0001	○ 141.04.120.0001	○ 141.04.220.0001
15	● 141.06.110.0001	● 141.06.210.0001	● 141.06.120.0001	○ 141.06.220.0001
20	● 141.07.110.0001	● 141.07.210.0001	● 141.07.120.0001	● 141.07.220.0001
25	● 141.08.110.0001	● 141.08.210.0001	● 141.08.120.0001	● 141.08.220.0001
32	● 141.09.110.0001	● 141.09.210.0001	● 141.09.120.0001	● 141.09.220.0001
40	● 141.10.110.0001	● 141.10.210.0001	● 141.10.120.0001	● 141.10.220.0001
50	● 141.11.110.0001	● 141.11.210.0001	● 141.11.120.0001	● 141.11.220.0001
from DN 65 series 2				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 141.04.110.0007	○ 141.04.210.0007	○ 141.04.120.0007	○ 141.04.220.0007
15	● 141.06.110.0007	● 141.06.210.0007	● 141.06.120.0007	○ 141.06.220.0007
20	● 141.07.110.0007	○ 141.07.210.0007	● 141.07.120.0007	○ 141.07.220.0007
25	● 141.08.110.0007	● 141.08.210.0007	● 141.08.120.0007	○ 141.08.220.0007
32	● 141.09.110.0007	● 141.09.210.0007	● 141.09.120.0007	○ 141.09.220.0007
40	● 141.10.110.0007	● 141.10.210.0007	○ 141.10.120.0007	● 141.10.220.0007
50	● 141.11.110.0007	● 141.11.210.0007	● 141.11.120.0007	○ 141.11.220.0007
from DN 65 series 2				

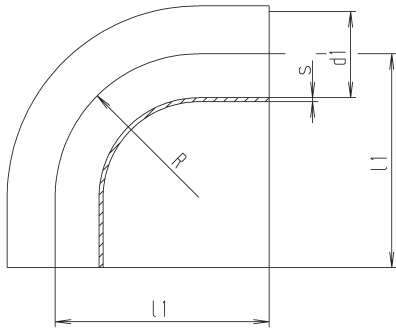
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	● 143.08.110.0001	○ 143.08.210.0001	● 143.08.120.0001	○ 143.08.220.0001
1½"	● 143.10.110.0001	● 143.10.210.0001	● 143.10.120.0001	● 143.10.220.0001
2"	● 143.11.110.0001	● 143.11.210.0001	● 143.11.120.0001	● 143.11.220.0001
2½"	● 143.12.110.0001	● 143.12.210.0001	● 143.12.120.0001	● 143.12.220.0001
3"	● 143.13.110.0001	● 143.13.210.0001	● 143.13.120.0001	● 143.13.220.0001
4"	● 143.15.110.0001	● 143.15.210.0001	● 143.15.120.0001	○ 143.15.220.0001
from DN 65 series 2				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

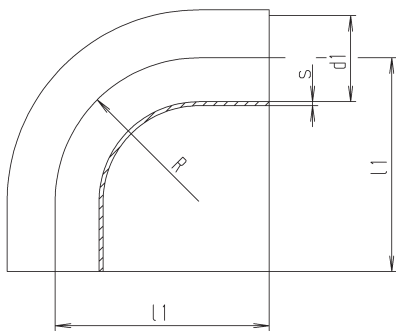
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 143.08.110.0004	○ 143.08.210.0004	○ 143.08.120.0004	○ 143.08.220.0004
1½"	○ 143.10.110.0004	○ 143.10.210.0004	○ 143.10.120.0004	○ 143.10.220.0004
2"	○ 143.11.110.0004	○ 143.11.210.0004	○ 143.11.120.0004	○ 143.11.220.0004
2½"	○ 143.12.110.0004	○ 143.12.210.0004	○ 143.12.120.0004	○ 143.12.220.0004
3"	○ 143.13.110.0004	○ 143.13.210.0004	○ 143.13.120.0004	○ 143.13.220.0004
4"	○ 143.15.110.0004	○ 143.15.210.0004	○ 143.15.120.0004	○ 143.15.220.0004
from DN 65 series 2				

welding bend 90°, 1,5D, long, inch (422Z)



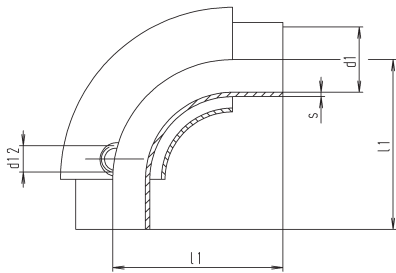
DN	d1	l1	R	s	weight (kg)
1"	22.2	65	37.5	1.6	0,110
1½"	34.9	85	57	1.6	0,210
2"	47.6	110	76.5	1.6	0,355
2½"	60.3	135	95.3	1.6	0,545
3"	72.9	155	114.2	1.6	0,750
4"	97.6	195	152.5	2	1,480

welding bend 90°, 2.0D, long (version IIA), inch



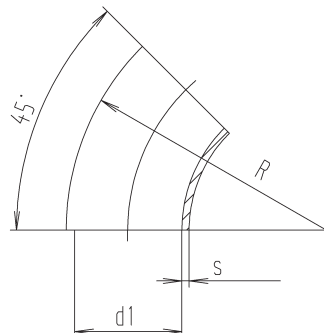
DN	d1	l1	R	s	weight (kg)
1"	22.9	80	51	1.25	0,090
1½"	35.1	105	76	1.5	0,190
2"	47.8	130	102	1.5	0,310
2½"	60.5	160	127	1.5	0,570
3"	72.8	190	140	1.63	1,080
4"	97.4	195	152.4	2.11	1,240

bend 90°, with heating jacket inch



DN	d1	d12	l1	s	weight (kg)
1"	22.1	R1/2"	65	1.65	0,265
1½"	34.8	R1/2"	85	1.65	0,48
2"	47.5	R1/2"	110	1.65	0,71
2½"	60.2	R1/2"	135	1.65	1,15
3"	72.9	R3/4"	155	1.65	2,15
4"	97.4	R3/4"	195	2.11	3,8

welding bend 45°, inch



DN	d1	R	s	weight (kg)
1"	22.9	27.5	1.25	0,015
1½"	35.1	45	1.5	0,042
2"	47.8	67.5	1.5	0,095
2½"	60.2	82.5	1.63	0,145
3"	72.8	95	1.63	0,250
4"	97.4	133.5	2.11	0,550

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 143.08.110.0005	○ 143.08.210.0005	○ 143.08.120.0005	○ 143.08.220.0005
1½"	○ 143.10.110.0005	○ 143.10.210.0005	○ 143.10.120.0005	○ 143.10.220.0005
2"	○ 143.11.110.0005	○ 143.11.210.0005	○ 143.11.120.0005	○ 143.11.220.0005
2½"	○ 143.12.110.0005	○ 143.12.210.0005	○ 143.12.120.0005	○ 143.12.220.0005
3"	○ 143.13.110.0005	○ 143.13.210.0005	○ 143.13.120.0005	○ 143.13.220.0005
4"	○ 143.15.110.0005	○ 143.15.210.0005	○ 143.15.120.0005	○ 143.15.220.0005

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 143.08.110.0000	○ 143.08.210.0000	○ 143.08.120.0000	○ 143.08.220.0000
1½"	○ 143.10.110.0000	○ 143.10.210.0000	○ 143.10.120.0000	○ 143.10.220.0000
2"	○ 143.11.110.0000	○ 143.11.210.0000	○ 143.11.120.0000	○ 143.11.220.0000
2½"	○ 143.12.110.0000	○ 143.12.210.0000	○ 143.12.120.0000	○ 143.12.220.0000
3"	○ 143.13.110.0000	○ 143.13.210.0000	○ 143.13.120.0000	○ 143.13.220.0000
4"	○ 143.15.110.0000	○ 143.15.210.0000	○ 143.15.120.0000	○ 143.15.220.0000

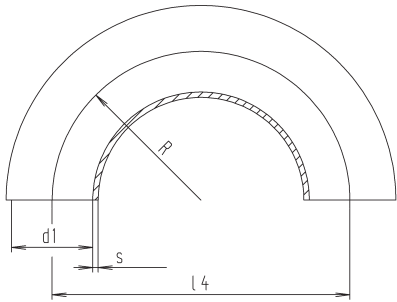
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 matt Ident number	316 L matt Ident number
1"	○ 143.08.210.0019	○ 143.08.220.0019
1½"	○ 143.10.210.0019	○ 143.10.220.0019
2"	○ 143.11.210.0019	○ 143.11.220.0019
2½"	○ 143.12.210.0019	○ 143.12.220.0019
3"	○ 143.13.210.0019	○ 143.13.220.0019
4"	○ 143.15.210.0019	○ 143.15.220.0019

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

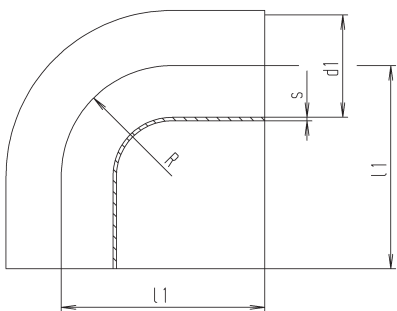
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 143.08.110.0002	○ 143.08.210.0002	○ 143.08.120.0002	○ 143.08.220.0002
1½"	○ 143.10.110.0002	○ 143.10.210.0002	○ 143.10.120.0002	○ 143.10.220.0002
2"	○ 143.11.110.0002	○ 143.11.210.0002	○ 143.11.120.0002	○ 143.11.220.0002
2½"	○ 143.12.110.0002	○ 143.12.210.0002	○ 143.12.120.0002	○ 143.12.220.0002
3"	○ 143.13.110.0002	○ 143.13.210.0002	○ 143.13.120.0002	○ 143.13.220.0002
4"	○ 143.15.110.0002	○ 143.15.210.0002	○ 143.15.120.0002	○ 143.15.220.0002

welding bend 180° inch (486Z)



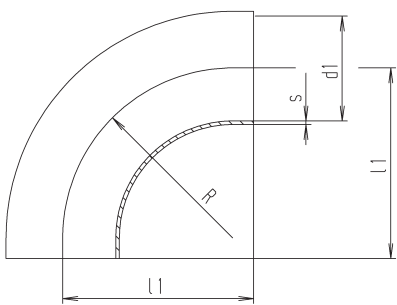
DN	dl	l4	R	s	weight (kg)
1"	22.9	55	27.5	1.25	0,070
1½"	35.1	90	45	1.5	0,200
2"	47.8	135	67.5	1.5	0,400
2½"	60.2	165	82.5	1.63	0,640
3"	72.8	190	95	1.63	0,900
4"	97.4	267	133.5	2.11	2,100

welding bend 90°, 1,0D, SMS (433S)



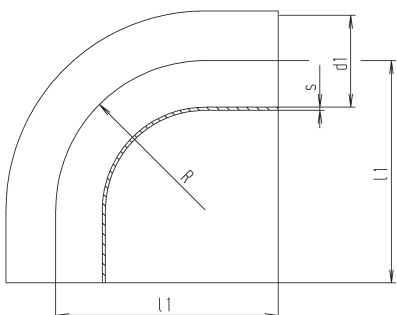
DN	dl	l1	R	s	weight (kg)
25	22.6	55	25	1.2	0,056
38	35.6	70	38	1.2	0,110
51	48.6	82	51	1.2	0,200
63,5	60.3	105	63.5	1.6	0,440
76	72	110	76	2	0,610
101,6	97.6	150	150	2	1,320

welding bend 90°, 1,5D, short, SMS (433S)



DN	dl	l1	R	s	weight (kg)
25	22.6	44	37.5	1.2	0,054
38	35.6	64	57	1.2	0,106
51	48.6	89	76.5	1.2	0,205
63,5	60.3	114	95.3	1.6	0,440
76	72.9	134	114.2	1.6	0,620
101,6	97.6	174	152.5	2	1,320

welding bend 90°, 1,5D, long, SMS (433S)



DN	dl	l1	R	s	weight (kg)
25	22.6	65	37.5	1.2	0,076
38	35.6	85	57	1.2	0,152
51	48.6	110	76.5	1.2	0,260
63,5	60.3	135	95.3	1.6	0,550
76	72.9	155	114.2	1.6	0,750
101,6	97.6	195	152.5	2	1,480

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 143.08.110.0006	○ 143.08.210.0006	○ 143.08.120.0006	○ 143.08.220.0006
1½"	○ 143.10.110.0006	○ 143.10.210.0006	○ 143.10.120.0006	○ 143.10.220.0006
2"	○ 143.11.110.0006	○ 143.11.210.0006	○ 143.11.120.0006	○ 143.11.220.0006
2½"	○ 143.12.110.0006	○ 143.12.210.0006	○ 143.12.120.0006	○ 143.12.220.0006
3"	○ 143.13.110.0006	○ 143.13.210.0006	○ 143.13.120.0006	○ 143.13.220.0006
4"	○ 143.15.110.0006	○ 143.15.210.0006	○ 143.15.120.0006	○ 143.15.220.0006

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 145.08.110.0001	○ 145.08.210.0001	○ 145.08.120.0001	○ 145.08.220.0001
38	○ 145.10.110.0001	○ 145.10.210.0001	○ 145.10.120.0001	○ 145.10.220.0001
51	○ 145.11.110.0001	○ 145.11.210.0001	○ 145.11.120.0001	○ 145.11.220.0001
63,5	○ 145.12.110.0001	○ 145.12.210.0001	○ 145.12.120.0001	○ 145.12.220.0001
76	○ 145.13.110.0001	○ 145.13.210.0001	○ 145.13.120.0001	○ 145.13.220.0001
101,6	○ 145.15.110.0001	○ 145.15.210.0001	○ 145.15.120.0001	○ 145.15.220.0001

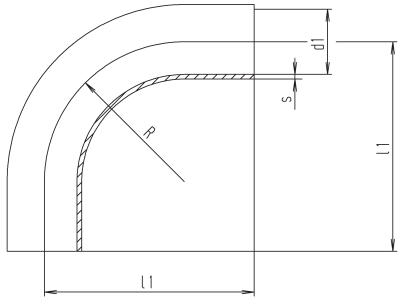
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 145.08.110.0002	○ 145.08.210.0002	○ 145.08.120.0002	○ 145.08.220.0002
38	○ 145.10.110.0002	○ 145.10.210.0002	○ 145.10.120.0002	○ 145.10.220.0002
51	○ 145.11.110.0002	○ 145.11.210.0002	○ 145.11.120.0002	○ 145.11.220.0002
63,5	○ 145.12.110.0002	○ 145.12.210.0002	○ 145.12.120.0002	○ 145.12.220.0002
76	○ 145.13.110.0002	○ 145.13.210.0002	○ 145.13.120.0002	○ 145.13.220.0002
101,6	○ 145.15.110.0002	○ 145.15.210.0002	○ 145.15.120.0002	○ 145.15.220.0002

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

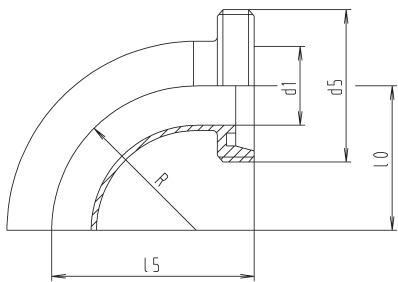
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 145.08.110.0003	○ 145.08.210.0003	○ 145.08.120.0003	○ 145.08.220.0003
38	○ 145.10.110.0003	○ 145.10.210.0003	○ 145.10.120.0003	○ 145.10.220.0003
51	○ 145.11.110.0003	○ 145.11.210.0003	○ 145.11.120.0003	○ 145.11.220.0003
63,5	○ 145.12.110.0003	○ 145.12.210.0003	○ 145.12.120.0003	○ 145.12.220.0003
76	○ 145.13.110.0003	○ 145.13.210.0003	○ 145.13.120.0003	○ 145.13.220.0003
101,6	○ 145.15.110.0003	○ 145.15.210.0003	○ 145.15.120.0003	○ 145.15.220.0003

welding bend 90°, 2,0D, long, SMS



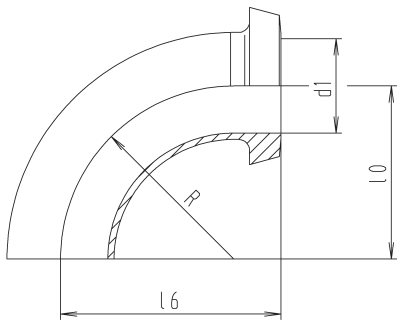
DN	dl	II	R	s	weight (kg)
25	22.6	80	50	1.2	0,090
38	35.6	105	70	1.2	0,190
51	48.6	130	95	1.2	0,310
63,5	60.3	160	120	1.6	0,570
76	72.8	190	140	1.63	1,080
101,6	97.4	195	152.4	2.11	1,240

bend 90°, male/weld end, (for tubing similar DIN 11850) (452)



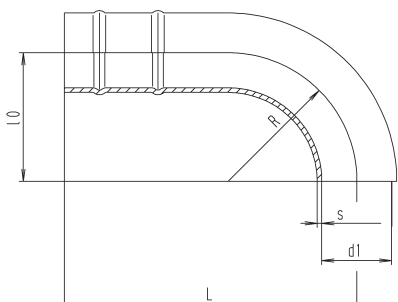
DN	dl	d5	l0	l5	R	weight (kg)
10	9	28x1/8"	26	43	26	0,040
15	15	34x1/8"	35	52	35	0,110
20	19	44x1/6"	40	59	40	0,130
25	25	52x1/6"	50	72	50	0,160
32	31	58x1/6"	55	77	55	0,210
40	37	65x1/6"	60	82	60	0,280
50	49	78x1/6"	70	93	70	0,370
65	66	95x1/6"	80	105	80	0,660
80	81	110x1/4"	90	115	90	0,990
100	100	130x1/4"	100	130	100	1,680
125	125	160x1/4"	187.5	223	187.5	2,900
150	150	190x1/4"	225	265	225	4,280

bend 90°, liner/weld end, DIN 11851 (for tub. similar DIN 11850) (462)



DN	dl	l0	l6	R	weight (kg)
10	9	26	39	26	0,030
15	15	35	48	35	0,070
20	19	40	53	40	0,130
25	25	50	65	50	0,130
32	31	55	70	55	0,170
40	37	60	75	60	0,220
50	49	70	86	70	0,300
65	66	80	97	80	0,560
80	81	90	107	90	0,810
100	100	100	120	100	1,760
125	125	187.5	211	187.5	2,580
150	150	225	252	225	3,510

bend 90°, hose spout / weld end, (for tub. acc. DIN 11850 line I) (436)



DN	dl	l0	L	R	s	weight (kg)
25	26	50	110	50	1	0,080
32	32	55	125	55	1	0,110
40	38	60	140	60	1	0,160
50	50	70	160	70	1	0,250
65	66	80	180	80	2	0,820
80	81	90	200	90	2	1,070
100	100	100	220	100	2	1,750

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 145.08.110.0000	○ 145.08.210.0000	○ 145.08.120.0000	○ 145.08.220.0000
38	○ 145.10.110.0000	○ 145.10.210.0000	○ 145.10.120.0000	○ 145.10.220.0000
51	○ 145.11.110.0000	○ 145.11.210.0000	○ 145.11.120.0000	○ 145.11.220.0000
63,5	○ 145.12.110.0000	○ 145.12.210.0000	○ 145.12.120.0000	○ 145.12.220.0000
76	○ 145.13.110.0000	○ 145.13.210.0000	○ 145.13.120.0000	○ 145.13.220.0000
101,6	○ 145.15.110.0000	○ 145.15.210.0000	○ 145.15.120.0000	○ 145.15.220.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 142.04.110.0001	○ 142.04.210.0001	○ 142.04.120.0001	○ 142.04.220.0001
15	● 142.06.110.0001	○ 142.06.210.0001	○ 142.06.120.0001	○ 142.06.220.0001
20	○ 142.07.110.0001	○ 142.07.210.0001	○ 142.07.120.0001	○ 142.07.220.0001
25	● 142.08.110.0001	○ 142.08.210.0001	○ 142.08.120.0001	○ 142.08.220.0001
32	● 142.09.110.0001	○ 142.09.210.0001	○ 142.09.120.0001	○ 142.09.220.0001
40	● 142.10.110.0001	○ 142.10.210.0001	○ 142.10.120.0001	○ 142.10.220.0001
50	● 142.11.110.0001	○ 142.11.210.0001	○ 142.11.120.0001	○ 142.11.220.0001
65	○ 142.12.110.0001	○ 142.12.210.0001	○ 142.12.120.0001	○ 142.12.220.0001
80	○ 142.14.110.0001	○ 142.14.210.0001	○ 142.14.120.0001	○ 142.14.220.0001
100	○ 142.15.110.0001	○ 142.15.210.0001	○ 142.15.120.0001	○ 142.15.220.0001
125	○ 142.16.110.0001	○ 142.16.210.0001	○ 142.16.120.0001	○ 142.16.220.0001
150	○ 142.17.110.0001	○ 142.17.210.0001	○ 142.17.120.0001	○ 142.17.220.0001

from DN 65 DIN 11850 see series 2

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

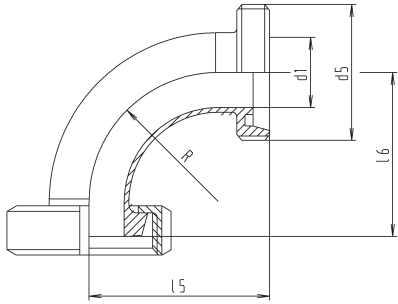
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 142.04.110.0022	○ 142.04.210.0022	○ 142.04.120.0022	○ 142.04.220.0022
15	● 142.06.110.0022	○ 142.06.210.0022	○ 142.06.120.0022	○ 142.06.220.0022
20	○ 142.07.110.0022	○ 142.07.210.0022	○ 142.07.120.0022	○ 142.07.220.0022
25	● 142.08.110.0022	○ 142.08.210.0022	● 142.08.120.0022	○ 142.08.220.0022
32	● 142.09.110.0022	○ 142.09.210.0022	○ 142.09.120.0022	○ 142.09.220.0022
40	● 142.10.110.0022	○ 142.10.210.0022	● 142.10.120.0022	○ 142.10.220.0022
50	● 142.11.110.0022	○ 142.11.210.0022	● 142.11.120.0022	○ 142.11.220.0022
65	● 142.12.110.0022	○ 142.12.210.0022	○ 142.12.120.0022	○ 142.12.220.0022
80	○ 142.14.110.0022	○ 142.14.210.0022	○ 142.14.120.0022	○ 142.14.220.0022
100	○ 142.15.110.0022	○ 142.15.210.0022	○ 142.15.120.0022	○ 142.15.220.0022
125	○ 142.16.110.0022	○ 142.16.210.0022	○ 142.16.120.0022	○ 142.16.220.0022
150	○ 142.17.110.0022	○ 142.17.210.0022	○ 142.17.120.0022	○ 142.17.220.0022

from DN 65 DIN 11850 see series 2

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

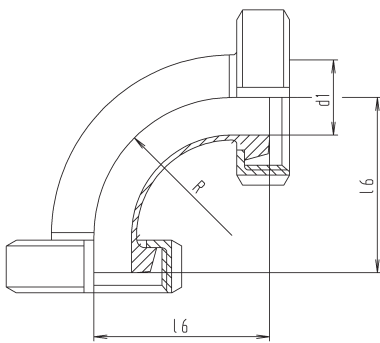
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 142.08.110.0012	○ 142.08.210.0012	○ 142.08.120.0012	○ 142.08.220.0012
32	○ 142.09.110.0012	○ 142.09.210.0012	○ 142.09.120.0012	○ 142.09.220.0012
40	● 142.10.110.0012	● 142.10.210.0012	○ 142.10.120.0012	○ 142.10.220.0012
50	○ 142.11.110.0012	○ 142.11.210.0012	○ 142.11.120.0012	○ 142.11.220.0012
65	● 142.12.110.0012	● 142.12.210.0012	○ 142.12.120.0012	○ 142.12.220.0012
80	○ 142.14.110.0012	○ 142.14.210.0012	○ 142.14.120.0012	○ 142.14.220.0012
100	○ 142.15.110.0012	○ 142.15.210.0012	○ 142.15.120.0012	○ 142.15.220.0012

bend 90°, male/liner, DIN (456)



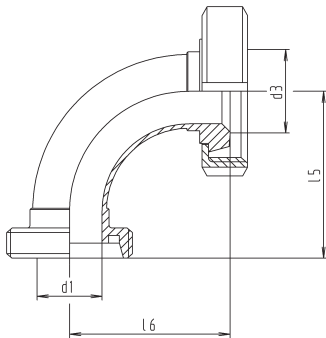
DN	d1	d5	l5	l6	R	weight (kg)
10	10	28x1/8"	43	39	26	0,160
15	16	34x1/8"	52	48	35	0,200
20	20	44x1/6"	59	53	40	0,280
25	26	52x1/6"	72	65	50	0,400
32	32	58x1/6"	77	70	55	0,480
40	38	65x1/6"	82	75	60	0,560
50	50	78x1/6"	93	86	70	0,770
65	66	95x1/6"	105	97	80	1,420
80	81	110x1/4"	115	107	90	1,950
100	100	130x1/4"	130	120	100	2,670
125	125	160x1/4"	223	211	187.5	4,950
150	150	190x1/4"	265	252	225	7,250

bend 90°, liner/liner, DIN 11851 (466)



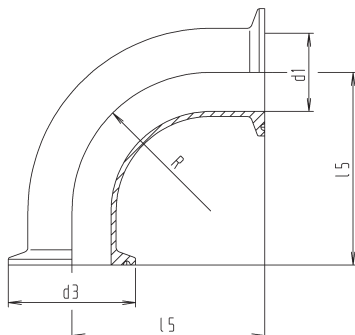
DN	d1	l6	R	weight (kg)
10	10	39	26	0,180
15	16	48	35	0,220
20	20	53	40	0,370
25	26	65	50	0,540
32	32	70	55	0,650
40	38	75	60	0,760
50	50	86	70	1,000
65	66	97	80	1,840
80	81	107	90	2,650
100	100	120	100	4,100
125	125	211	187.5	6,080
150	150	252	225	8,660

bend 90°, liner/reduced male, DIN 11851 (482)



DN	d1	d3	l5	l6	weight (kg)
32/25	26	32	72	69	0,490
40/25	26	38	72	69	0,560
40/32	32	38	77	74	0,600
50/32	32	50	77	74	0,830
50/40	38	50	82	80	1,400
65/50	50	66	93	93	1,820
80/50	50	81	93	97	1,870
80/65	66	81	105	107	1,950
100/65	66	100	105	107	2,810
100/80	81	100	115	117	2,360

bend 90°, clamp/clamp, DIN (444)



DN	d1	d3	l5	R	weight (kg)
10	10	34	44	26	0,070
15	16	34	53	35	0,080
20	20	34	58	40	0,100
25	26	50.5	71.5	50	0,200
32	32	50.5	76.5	55	0,220
40	38	50.5	81.5	60	0,250
50	50	64	91.5	70	0,350
65	66	91	108	80	0,750
80	81	106	118	90	1,000
100	100	119	128	100	1,610

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 142.04.110.0020	○ 142.04.210.0020	○ 142.04.120.0020	○ 142.04.220.0020
15	● 142.06.110.0020	○ 142.06.210.0020	○ 142.06.120.0020	○ 142.06.220.0020
20	○ 142.07.110.0020	○ 142.07.210.0020	○ 142.07.120.0020	○ 142.07.220.0020
25	● 142.08.110.0020	○ 142.08.210.0020	○ 142.08.120.0020	○ 142.08.220.0020
32	● 142.09.110.0020	○ 142.09.210.0020	○ 142.09.120.0020	○ 142.09.220.0020
40	● 142.10.110.0020	○ 142.10.210.0020	○ 142.10.120.0020	○ 142.10.220.0020
50	● 142.11.110.0020	○ 142.11.210.0020	○ 142.11.120.0020	○ 142.11.220.0020
65	● 142.12.110.0020	○ 142.12.210.0020	○ 142.12.120.0020	○ 142.12.220.0020
80	● 142.14.110.0020	○ 142.14.210.0020	○ 142.14.120.0020	○ 142.14.220.0020
100	○ 142.15.110.0020	○ 142.15.210.0020	○ 142.15.120.0020	○ 142.15.220.0020
125	○ 142.16.110.0020	○ 142.16.210.0020	○ 142.16.120.0020	○ 142.16.220.0020
150	○ 142.17.110.0020	○ 142.17.210.0020	○ 142.17.120.0020	○ 142.17.220.0020

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 142.04.110.0040	○ 142.04.210.0040	○ 142.04.120.0040	○ 142.04.220.0040
15	○ 142.06.110.0040	○ 142.06.210.0040	○ 142.06.120.0040	○ 142.06.220.0040
20	○ 142.07.110.0040	○ 142.07.210.0040	○ 142.07.120.0040	○ 142.07.220.0040
25	● 142.08.110.0040	○ 142.08.210.0040	○ 142.08.120.0040	○ 142.08.220.0040
32	● 142.09.110.0040	○ 142.09.210.0040	○ 142.09.120.0040	○ 142.09.220.0040
40	● 142.10.110.0040	○ 142.10.210.0040	○ 142.10.120.0040	○ 142.10.220.0040
50	● 142.11.110.0040	○ 142.11.210.0040	○ 142.11.120.0040	○ 142.11.220.0040
65	● 142.12.110.0040	○ 142.12.210.0040	○ 142.12.120.0040	○ 142.12.220.0040
80	○ 142.14.110.0040	○ 142.14.210.0040	○ 142.14.120.0040	○ 142.14.220.0040
100	○ 142.15.110.0040	○ 142.15.210.0040	○ 142.15.120.0040	○ 142.15.220.0040
125	○ 142.16.110.0040	○ 142.16.210.0040	○ 142.16.120.0040	○ 142.16.220.0040
150	○ 142.17.110.0040	○ 142.17.210.0040	○ 142.17.120.0040	○ 142.17.220.0040

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
32/25	○ 142.30.110.0017	○ 142.30.210.0017	○ 142.30.120.0017	○ 142.30.220.0017
40/25	○ 142.34.110.0017	○ 142.34.210.0017	○ 142.34.120.0017	○ 142.34.220.0017
40/32	○ 142.35.110.0017	○ 142.35.210.0017	○ 142.35.120.0017	○ 142.35.220.0017
50/32	○ 142.40.110.0017	○ 142.40.210.0017	○ 142.40.120.0017	○ 142.40.220.0017
50/40	○ 142.41.110.0017	○ 142.41.210.0017	○ 142.41.120.0017	○ 142.41.220.0017
65/50	○ 142.48.110.0017	○ 142.48.210.0017	○ 142.48.120.0017	○ 142.48.220.0017
80/50	○ 142.63.110.0017	○ 142.63.210.0017	○ 142.63.120.0017	○ 142.63.220.0017
80/65	○ 142.64.110.0017	○ 142.64.210.0017	○ 142.64.120.0017	○ 142.64.220.0017
100/65	○ 142.73.110.0017	○ 142.73.210.0017	○ 142.73.120.0017	○ 142.73.220.0017
100/80	○ 142.75.110.0017	○ 142.75.210.0017	○ 142.75.120.0017	○ 142.75.220.0017

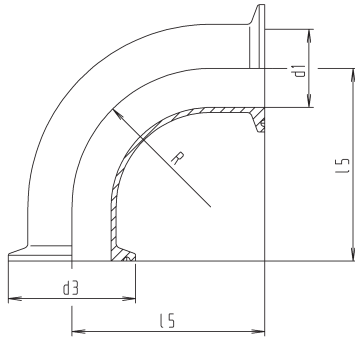
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	316 L polished Ident number
10	○ 142.04.110.0000	○ 142.04.120.0000
15	○ 142.06.110.0000	○ 142.06.120.0000
20	○ 142.07.110.0000	○ 142.07.120.0000
25	○ 142.08.110.0000	● 142.08.120.0000
32	○ 142.09.110.0000	○ 142.09.120.0000
40	○ 142.10.110.0000	● 142.10.120.0000
50	○ 142.11.110.0000	● 142.11.120.0000
65	○ 142.12.110.0000	○ 142.12.120.0000
80	○ 142.14.110.0000	○ 142.14.120.0000
100	○ 142.15.110.0000	○ 142.15.120.0000

available in matt as well

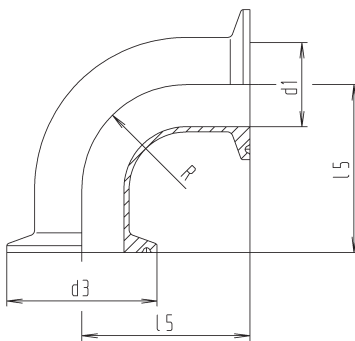
bend 90°, clamp/clamp, DIN (444)

nocapius



DN	d1	d3	L5	R	weight (kg)
10	10	34	44	26	0,070
15	16	34	53	35	0,080
20	20	34	58	40	0,100
25	26	50,5	71,5	50	0,200
32	32	50,5	76,5	55	0,220
40	38	50,5	81,5	60	0,250
50	50	64	91,5	70	0,350
65	66	91	108	80	0,750
80	81	106	118	90	1,000
100	100	119	128	100	1,610

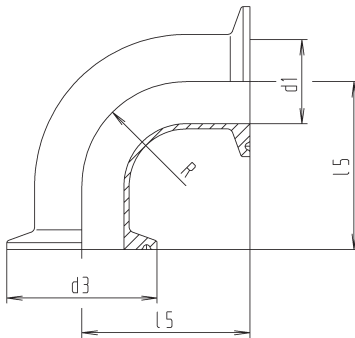
bend 90°, clamp/clamp, inch OD (444Z)



DN	d1	d3	L5	R	weight (kg)
1"	22,9	50,5	49	27,5	0,200
1½"	35,1	50,5	66,5	45	0,250
2"	47,8	64	89	67,5	0,330
2½"	60,5	77,5	110,5	82,5	0,490
3"	73,1	91	123	95	0,800
4"	97,6	119	161,5	133,5	1,500

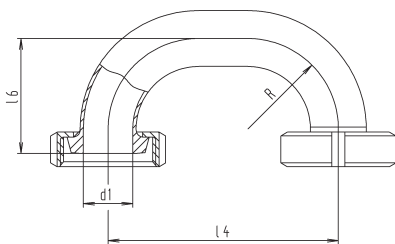
bend 90°, clamp/clamp, inch OD (444Z)

nocapius



DN	d1	d3	L5	R	weight (kg)
1"	22,1	50,5	50,8	27,5	0,200
1½"	34,8	50,5	69,9	45	0,250
2"	47,5	64	88,9	67,5	0,330
2½"	60,2	77,5	108	82,5	0,490
3"	72,9	91	127	95	0,800
4"	97,4	119	168,3	133,5	1,500

switch bend, 180°, DIN 11851 liner/liner



DN	d1	L4	L6	R	weight (kg)
25	25	250	65	50	0,760
32	31	300	70	55	0,960
40	37	300	75	60	1,160
50	49	300	86	70	1,530
65	66	300	97	80	2,580
80	81	350	107	90	3,790
100	100	400	120	100	6,480

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
10	○ 142.04.120.0300
15	○ 142.06.120.0300
20	○ 142.07.120.0300
25	○ 142.08.120.0300
32	○ 142.09.120.0300
40	○ 142.10.120.0300
50	○ 142.11.120.0300
65	○ 142.12.120.0300
80	○ 142.14.120.0300
100	○ 142.15.120.0300

available in matt as well

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	316 L polished Ident number
1"	○ 144.08.110.0000	● 144.08.120.0000
1½"	● 144.10.110.0000	● 144.10.120.0000
2"	○ 144.11.110.0000	● 144.11.120.0000
2½"	○ 144.12.110.0000	○ 144.12.120.0000
3"	○ 144.13.110.0000	○ 144.13.120.0000
4"	○ 144.15.110.0000	○ 144.15.120.0000

available in matt as well

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
1"	○ 144.08.120.0301
1½"	○ 144.10.120.0301
2"	○ 144.11.120.0301
2½"	○ 144.12.120.0301
3"	○ 144.13.120.0301
4"	○ 144.15.120.0301

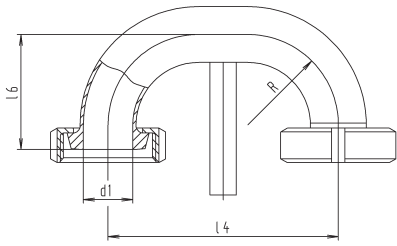
available in matt as well

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 142.08.110.0048	○ 142.08.210.0048	○ 142.08.120.0048	○ 142.08.220.0048
32	○ 142.09.110.0048	○ 142.09.210.0048	○ 142.09.120.0048	○ 142.09.220.0048
40	○ 142.10.110.0048	○ 142.10.210.0048	○ 142.10.120.0048	○ 142.10.220.0048
50	○ 142.11.110.0048	○ 142.11.210.0048	○ 142.11.120.0048	○ 142.11.220.0048
65	○ 142.12.110.0048	○ 142.12.210.0048	○ 142.12.120.0048	○ 142.12.220.0048
80	○ 142.14.110.0048	○ 142.14.210.0048	○ 142.14.120.0048	○ 142.14.220.0048
100	○ 142.15.110.0048	○ 142.15.210.0048	○ 142.15.120.0048	○ 142.15.220.0048

other L4 dimensions on demand

switch bend, 180°, DIN 11851 liner/liner, with switching rod



DN	d1	L4	L6	R	weight (kg)
25	26	250	65	50	0,780
32	32	250	70	55	0,980
40	38	300	75	60	1,180
50	50	300	86	70	1,550
65	66	300	97	80	2,600
80	81	350	107	90	3,810
100	100	350	120	100	6,500

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (S111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 142.08.110.0049	○ 142.08.210.0049	○ 142.08.120.0049	○ 142.08.220.0049
32	○ 142.09.110.0049	○ 142.09.210.0049	○ 142.09.120.0049	○ 142.09.220.0049
40	○ 142.10.110.0049	○ 142.10.210.0049	○ 142.10.120.0049	○ 142.10.220.0049
50	○ 142.11.110.0049	○ 142.11.210.0049	○ 142.11.120.0049	○ 142.11.220.0049
65	○ 142.12.110.0049	○ 142.12.210.0049	○ 142.12.120.0049	○ 142.12.220.0049
80	○ 142.14.110.0049	○ 142.14.210.0049	○ 142.14.120.0049	○ 142.14.220.0049
100	○ 142.15.110.0049	○ 142.15.210.0049	○ 142.15.120.0049	○ 142.15.220.0049
other L4 dimensions on demand				

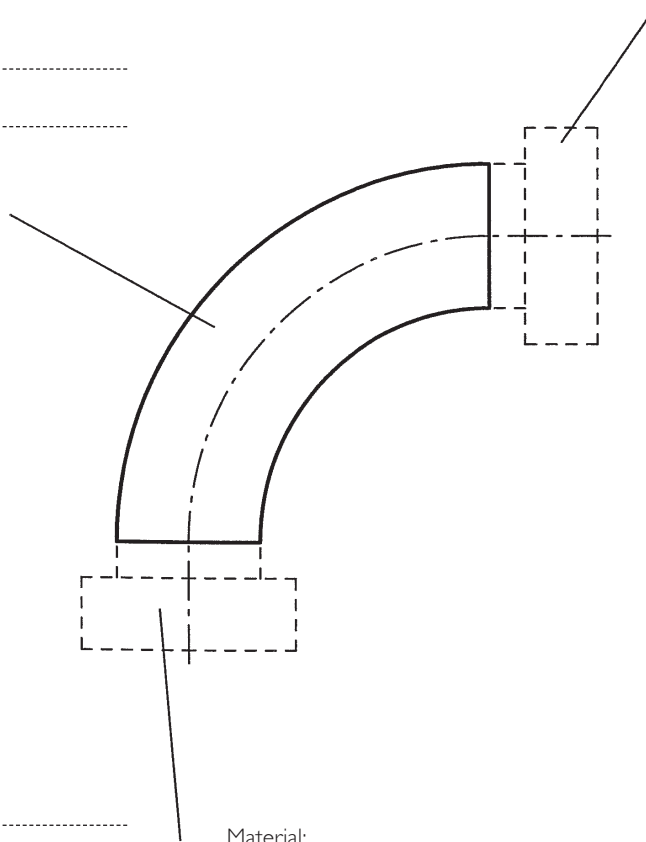
Special assembly of components

Description

Article number:

Description

Article number:



Description

Article number:

Material:

Surface:

Quantity:

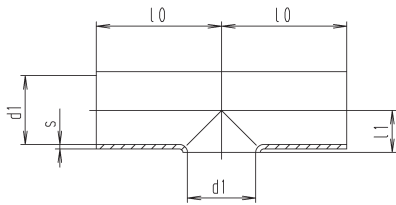
This article can be combined with other parts of the Nocado product range.
Please send us the completed form, so that we can submit the corresponding offer..

2.1 Pipes, tubing and fittings

2.1.3 T-pieces, T-bends, Crosses

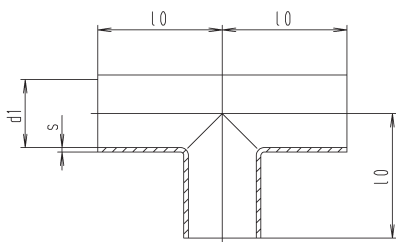
	page
T-pieces, short, DIN 11852 (for tubing according to DIN 11850, line 2) (5111N).....	2.1.3-1
T-pieces, weld ends, DIN 11852 (for tubing according to DIN 11850, line 2) (5222N).....	2.1.3-1
T-pieces, short, DIN 11852 (for tubing according to DIN 11850, line 2) (5111N).....	2.1.3-1
T-pieces, weld ends, DIN 11852 (for tubing according to DIN 11850, line 2) (5222N).....	2.1.3-1
T-pieces, with heating jacket (for tubing according to DIN 11850, line 2).....	2.1.3-3
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t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)



DN	dl	l0	l1	s	weight (kg)
10	10	35	7	1.5	0,020
15	16	35	11	1.5	0,030
20	20	40	13	1.5	0,070
25	26	50	16	1.5	0,090
32	32	55	19.5	1.5	0,120
40	38	60	23	1.5	0,150
50	50	70	30	1.5	0,240
65	66	80	40	2	0,460
80	81	90	47.5	2	0,680
100	100	100	58	2	0,920
125	125	187.5	74	2	1,970
150	150	225	90	2	2,890
200	200	300	115	2	5,460
250	250	375	140	2	8,430

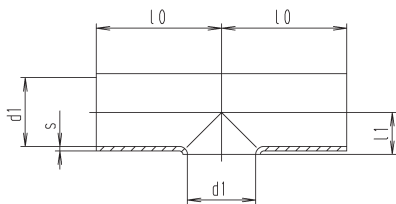
t-pieces, weld ends, DIN 11852 (for tub. acc. DIN 11850 line 2) (5222N)



DN	dl	l0	s	weight (kg)
10	10	35	1.5	0,030
15	16	35	1.5	0,050
20	20	40	1.5	0,080
25	26	50	1.5	0,100
32	32	55	1.5	0,130
40	38	60	1.5	0,210
50	50	70	1.5	0,290
65	66	80	2	0,620
80	81	90	2	0,850
100	100	100	2	1,620
125	125	187.5	2	2,710
150	150	225	2	3,880
200	200	300	2	7,100
250	250	375	2	10,960

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

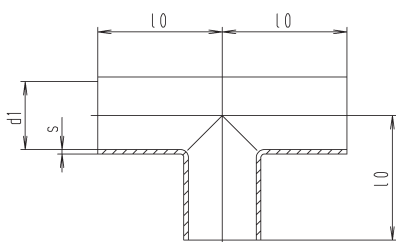
nocapius



DN	dl	l0	l1	s	weight (kg)
10	10	35	7	1.5	0,020
15	16	35	11	1.5	0,030
20	20	40	13	1.5	0,070
25	26	50	16	1.5	0,090
32	32	55	19.5	1.5	0,120
40	38	60	23	1.5	0,150
50	50	70	30	1.5	0,240
65	66	80	40	2	0,460
80	81	90	47.5	2	0,680
100	100	100	58	2	0,920
125	125	187.5	74	2	1,970
150	150	225	90	2	2,890
200	200	300	115	2	5,460
250	250	375	140	2	8,430

t-pieces, weld ends, DIN 11852 (for tub. acc. DIN 11850 line 2) (5222N)

nocapius



DN	dl	l0	s	weight (kg)
10	10	35	1.5	0,030
15	16	35	1.5	0,050
20	20	40	1.5	0,080
25	26	50	1.5	0,100
32	32	55	1.5	0,130
40	38	60	1.5	0,210
50	50	70	1.5	0,290
65	66	80	2	0,620
80	81	90	2	0,850
100	100	100	2	1,620
125	125	187.5	2	2,710
150	150	225	2	3,880
200	200	300	2	7,100
250	250	375	2	10,960

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 151.04.110.0030	○ 151.04.210.0030	○ 151.04.120.0030	○ 151.04.220.0030
15	● 151.06.110.0030	● 151.06.210.0030	● 151.06.120.0030	○ 151.06.220.0030
20	● 151.07.110.0030	● 151.07.210.0030	● 151.07.120.0030	○ 151.07.220.0030
25	● 151.08.110.0030	● 151.08.210.0030	● 151.08.120.0030	● 151.08.220.0030
32	● 151.09.110.0030	● 151.09.210.0030	● 151.09.120.0030	○ 151.09.220.0030
40	● 151.10.110.0030	● 151.10.210.0030	● 151.10.120.0030	● 151.10.220.0030
50	● 151.11.110.0030	● 151.11.210.0030	● 151.11.120.0030	● 151.11.220.0030
65	● 151.12.110.0000	● 151.12.210.0000	● 151.12.120.0000	● 151.12.220.0000
80	● 151.14.110.0000	● 151.14.210.0000	● 151.14.120.0000	● 151.14.220.0000
100	● 151.15.110.0000	● 151.15.210.0000	● 151.15.120.0000	● 151.15.220.0000
125	● 151.16.110.0000	● 151.16.210.0000	○ 151.16.120.0000	○ 151.16.220.0000
150	● 151.17.110.0000	● 151.17.210.0000	○ 151.17.120.0000	○ 151.17.220.0000
200	○ 151.18.110.0000	● 151.18.210.0000	○ 151.18.120.0000	○ 151.18.220.0000
250	○ 151.19.110.0000	○ 151.19.210.0000	○ 151.19.120.0000	○ 151.19.220.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 151.04.110.0017	● 151.04.210.0017	● 151.04.120.0017	● 151.04.220.0017
15	● 151.06.110.0017	● 151.06.210.0017	● 151.06.120.0017	● 151.06.220.0017
20	● 151.07.110.0017	● 151.07.210.0017	● 151.07.120.0017	● 151.07.220.0017
25	● 151.08.110.0017	● 151.08.210.0017	● 151.08.120.0017	● 151.08.220.0017
32	● 151.09.110.0017	○ 151.09.210.0017	● 151.09.120.0017	● 151.09.220.0017
40	● 151.10.110.0017	● 151.10.210.0017	● 151.10.120.0017	● 151.10.220.0017
50	● 151.11.110.0017	● 151.11.210.0017	● 151.11.120.0017	● 151.11.220.0017
65	● 151.12.110.0001	● 151.12.210.0001	● 151.12.120.0001	● 151.12.220.0001
80	● 151.14.110.0001	● 151.14.210.0001	● 151.14.120.0001	● 151.14.220.0001
100	● 151.15.110.0001	● 151.15.210.0001	● 151.15.120.0001	● 151.15.220.0001
125	● 151.16.110.0001	● 151.16.210.0001	○ 151.16.120.0001	○ 151.16.220.0001
150	● 151.17.110.0001	● 151.17.210.0001	○ 151.17.120.0001	○ 151.17.220.0001
200	● 151.18.110.0001	○ 151.18.210.0001	○ 151.18.120.0001	○ 151.18.220.0001
250	○ 151.19.110.0001	○ 151.19.210.0001	○ 151.19.120.0001	○ 151.19.220.0001

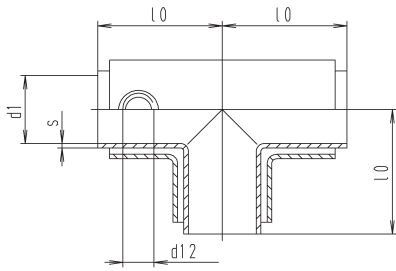
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
10	○ 151.04.120.0330	○ 151.04.220.0330
15	○ 151.06.120.0330	○ 151.06.220.0330
20	○ 151.07.120.0330	○ 151.07.220.0330
25	○ 151.08.120.0330	○ 151.08.220.0330
32	○ 151.09.120.0330	○ 151.09.220.0330
40	○ 151.10.120.0330	○ 151.10.220.0330
50	○ 151.11.120.0330	○ 151.11.220.0330
65	○ 151.12.120.0300	○ 151.12.220.0300
80	○ 151.14.120.0300	○ 151.14.220.0300
100	○ 151.15.120.0300	○ 151.15.220.0300
125	○ 151.16.120.0300	○ 151.16.220.0300
150	○ 151.17.120.0300	○ 151.17.220.0300
200	○ 151.18.120.0300	○ 151.18.220.0300
250	○ 151.19.120.0300	○ 151.19.220.0300

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

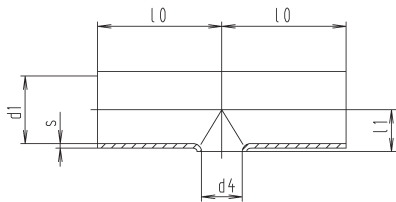
DN	316 L polished Ident number	316 L matt Ident number
10	○ 151.04.120.0317	○ 151.04.220.0317
15	○ 151.06.120.0317	○ 151.06.220.0317
20	○ 151.07.120.0317	○ 151.07.220.0317
25	○ 151.08.120.0317	○ 151.08.220.0317
32	○ 151.09.120.0317	○ 151.09.220.0317
40	○ 151.10.120.0317	○ 151.10.220.0317
50	○ 151.11.120.0317	○ 151.11.220.0317
65	○ 151.12.120.0301	○ 151.12.220.0301
80	○ 151.14.120.0301	○ 151.14.220.0301
100	○ 151.15.120.0301	○ 151.15.220.0301
125	○ 151.16.120.0301	○ 151.16.220.0301
150	○ 151.17.120.0301	○ 151.17.220.0301
200	○ 151.18.120.0301	○ 151.18.220.0301
250	○ 151.19.120.0301	○ 151.19.220.0301

t-pieces, with heating jacket (for tubing acc. DIN 11850 line 2)



DN	d1	d12	l0	s	weight (kg)
25	26	R1/2"	50	1.5	0,27
32	32	R1/2"	55	1.5	0,38
40	38	R1/2"	60	1.5	0,54
50	50	R1/2"	70	1.5	0,95
65	66	R3/4"	80	2	1,57
80	81	R3/4"	90	2	2,57
100	100	R3/4"	100	2	4,43

t-pieces, short, red. DIN 11852 (for tub. acc. DIN 11850 line 2) (5227N)



DN	d1	d4	l0	l1	s	weight (kg)
25/20	26	20	50	16	1.5	0,090
32/25	32	26	55	19	1.5	0,120
40/25	38	26	60	22	1.5	1,150
40/32	38	32	60	22.5	1.5	0,150
50/25	50	26	70	28	1.5	0,240
50/40	50	38	70	29	1.5	0,240
65/25	66	26	80	38	2	0,470
65/40	66	38	80	37.5	2	0,460
65/50	66	50	80	38.5	2	0,460
80/25	81	26	90	45.5	2	0,700
80/40	81	38	90	45	2	0,700
80/50	81	50	90	46	2	0,680
80/65	81	66	90	47.5	2	0,680
100/25	100	26	100	56	2	1,000
100/40	100	38	100	56	2	1,000
100/50	100	50	100	55.5	2	1,000
100/65	100	66	100	57	2	0,970
100/80	100	81	100	57	2	0,970
125/25	125	26	187	69.5	2	2,000
125/40	125	38	187	69.5	2	2,000
125/50	125	50	187	69.5	2	2,000
125/65	125	66	187.5	69.5	2	1,970
125/80	125	81	187.5	69.5	2	1,970
125/100	125	100	187.5	70.5	2	1,970
150/25	150	26	225	82	2	2,950
150/40	150	38	225	82	2	2,950
150/50	150	50	225	82	2	2,950
150/65	150	66	225	82	2	2,890
150/80	150	81	225	82	2	2,890
150/100	150	100	225	83	2	2,890
150/125	150	125	225	82	2	2,890

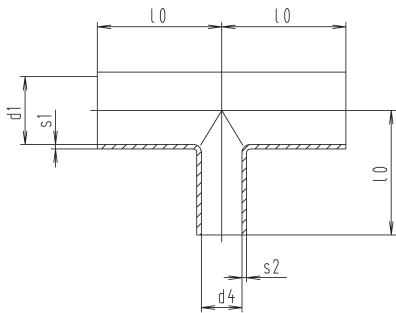
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 151.08.110.0050	○ 151.08.210.0050	○ 151.08.120.0050	○ 151.08.220.0050
32	○ 151.09.110.0050	○ 151.09.210.0050	○ 151.09.120.0050	○ 151.09.220.0050
40	○ 151.10.110.0050	○ 151.10.210.0050	○ 151.10.120.0050	○ 151.10.220.0050
50	○ 151.11.110.0050	○ 151.11.210.0050	○ 151.11.120.0050	○ 151.11.220.0050
65	○ 151.12.110.0050	○ 151.12.210.0050	○ 151.12.120.0050	○ 151.12.220.0050
80	○ 151.14.110.0050	○ 151.14.210.0050	○ 151.14.120.0050	○ 151.14.220.0050
100	○ 151.15.110.0050	○ 151.15.210.0050	○ 151.15.120.0050	○ 151.15.220.0050

t-pieces, short, red, DIN 11852 (for tub. acc. DIN 11850 line 2) (5227N)

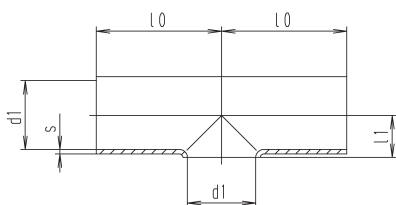
DN	Ident number	Ident number	Ident number	Ident number
25/20	○ 151.26.110.0021	○ 151.26.210.0021	● 151.26.120.0021	○ 151.26.220.0021
32/25	○ 151.30.110.0021	○ 151.30.210.0021	● 151.30.120.0021	○ 151.30.220.0021
40/25	○ 151.34.110.0021	○ 151.34.210.0021	● 151.34.120.0021	○ 151.34.220.0021
40/32	○ 151.35.110.0021	○ 151.35.210.0021	○ 151.35.120.0021	○ 151.35.220.0021
50/25	○ 151.39.110.0021	○ 151.39.210.0021	● 151.39.120.0021	○ 151.39.220.0021
50/40	○ 151.41.110.0021	○ 151.41.210.0021	● 151.41.120.0021	○ 151.41.220.0021
65/25	○ 151.45.110.0021	○ 151.45.210.0021	● 151.45.120.0021	○ 151.45.220.0021
65/40	○ 151.47.110.0021	○ 151.47.210.0021	● 151.47.120.0021	○ 151.47.220.0021
65/50	○ 151.48.110.0021	○ 151.48.210.0021	○ 151.48.120.0021	○ 151.48.220.0021
80/25	○ 151.60.110.0021	○ 151.60.210.0021	● 151.60.120.0021	○ 151.60.220.0021
80/40	○ 151.62.110.0021	○ 151.62.210.0021	○ 151.62.120.0021	○ 151.62.220.0021
80/50	○ 151.63.110.0021	○ 151.63.210.0021	● 151.63.120.0021	○ 151.63.220.0021
80/65	● 151.64.110.0006	● 151.64.210.0006	● 151.64.120.0006	● 151.64.220.0006
100/25	○ 151.69.110.0021	○ 151.69.210.0021	○ 151.69.120.0021	○ 151.69.220.0021
100/40	○ 151.71.110.0021	○ 151.71.210.0021	○ 151.71.120.0021	○ 151.71.220.0021
100/50	○ 151.72.110.0021	○ 151.72.210.0021	○ 151.72.120.0021	○ 151.72.220.0021
100/65	● 151.73.110.0006	● 151.73.210.0006	● 151.73.120.0006	● 151.73.220.0006
100/80	● 151.75.110.0006	● 151.75.210.0006	○ 151.75.120.0006	○ 151.75.220.0006
125/25	○ 151.79.110.0021	○ 151.79.210.0021	○ 151.79.120.0021	○ 151.79.220.0021
125/40	○ 151.81.110.0021	○ 151.81.210.0021	○ 151.81.120.0021	○ 151.81.220.0021
125/50	○ 151.82.110.0021	○ 151.82.210.0021	○ 151.82.120.0021	○ 151.82.220.0021
125/65	○ 151.83.110.0006	○ 151.83.210.0006	○ 151.83.120.0006	○ 151.83.220.0006
125/80	○ 151.85.110.0006	○ 151.85.210.0006	○ 151.85.120.0006	○ 151.85.220.0006
125/100	○ 151.86.110.0006	○ 151.86.210.0006	○ 151.86.120.0006	○ 151.86.220.0006
150/25	○ 151.90.110.0021	○ 151.90.210.0021	○ 151.90.120.0021	○ 151.90.220.0021
150/40	○ 151.92.110.0021	○ 151.92.210.0021	○ 151.92.120.0021	○ 151.92.220.0021
150/50	○ 151.93.110.0021	○ 151.93.210.0021	○ 151.93.120.0021	○ 151.93.220.0021
150/65	○ 151.94.110.0006	○ 151.94.210.0006	○ 151.94.120.0006	○ 151.94.220.0006
150/80	○ 151.96.110.0006	○ 151.96.210.0006	○ 151.96.120.0006	○ 151.96.220.0006
150/100	○ 151.97.110.0006	○ 151.97.210.0006	○ 151.97.120.0006	○ 151.97.220.0006
150/125	○ 151.98.110.0006	○ 151.98.210.0006	○ 151.98.120.0006	○ 151.98.220.0006

t-pieces, reduced, DIN 11852 (for tub. acc. DIN 11850 line 2) (5228N)



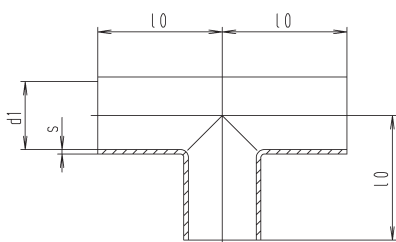
DN	d1	d4	l0	s1	s2	weight (kg)
25/20	26	20	50	1.5	1.5	0,120
32/25	32	26	55	1.5	1.5	0,150
40/25	38	26	60	1.5	1.5	0,180
40/32	38	32	60	1.5	1.5	0,200
50/25	50	26	70	1.5	1.5	0,270
50/40	50	38	70	1.5	1.5	0,310
65/25	66	26	80	2	1.5	0,500
65/40	66	38	80	2	1.5	0,510
65/50	66	50	80	2	1.5	0,600
80/25	81	26	90	2	1.5	0,730
80/40	81	38	90	2	1.5	0,740
80/50	81	50	90	2	1.5	0,760
80/65	81	66	90	2	2	0,840
100/25	100	26	100	2	1.5	1,020
100/40	100	38	100	2	1.5	1,060
100/50	100	50	100	2	1.5	1,080
100/65	100	66	100	2	2	1,170
100/80	100	81	100	2	2	1,240
125/25	125	26	187	2	1.5	2,020
125/40	125	38	187	2	1.5	2,040
125/50	125	50	187	2	1.5	2,070
125/65	125	66	187	2	2	2,080
125/80	125	81	187	2	2	2,170
125/100	125	100	187	2	2	2,220
150/25	150	26	225	2	1.5	2,980
150/40	150	38	225	2	1.5	2,990
150/50	150	50	225	2	1.5	3,020
150/65	150	66	225	2	2	3,030
150/80	150	81	225	2	2	3,090
150/100	150	100	225	2	2	3,180
150/125	150	125	225	2	2	3,390

t-pieces, short, (for tubing similar DIN 11850) (5111)



DN	d1	l0	l1	s	weight (kg)
10	9	35	6.5	1.5	0,020
15	15	35	9.5	1.5	0,040
20	19	40	12	1.5	0,070
25	25	50	15.5	1.5	0,090
32	31	55	19	1.5	0,120
40	37	60	23.5	1.5	0,150
50	49	70	30	1.5	0,240

t-pieces, (for tubing similar DIN 11850)



DN	d1	l0	s	weight (kg)
10	9	35	1.5	0,030
15	15	35	1.5	0,050
20	19	40	1.5	0,080
25	25	50	1.5	0,100
32	31	55	1.5	0,130
40	37	60	1.5	0,210
50	49	70	1.5	0,290

t-pieces, reduced, DIN 11852 (for tub. acc. DIN 11850 line 2) (5228N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25/20	○ 151.26.110.0022	○ 151.26.210.0022	○ 151.26.120.0022	○ 151.26.220.0022
32/25	○ 151.30.110.0022	○ 151.30.210.0022	○ 151.30.120.0022	○ 151.30.220.0022
40/25	○ 151.34.110.0022	○ 151.34.210.0022	● 151.34.120.0022	○ 151.34.220.0022
40/32	○ 151.35.110.0022	○ 151.35.210.0022	○ 151.35.120.0022	○ 151.35.220.0022
50/25	○ 151.39.110.0022	○ 151.39.210.0022	● 151.39.120.0022	○ 151.39.220.0022
50/40	○ 151.41.110.0022	○ 151.41.210.0022	○ 151.41.120.0022	○ 151.41.220.0022
65/25	○ 151.45.110.0022	○ 151.45.210.0022	○ 151.45.120.0022	○ 151.45.220.0022
65/40	○ 151.47.110.0022	○ 151.47.210.0022	○ 151.47.120.0022	○ 151.47.220.0022
65/50	○ 151.48.110.0022	○ 151.48.210.0022	○ 151.48.120.0022	○ 151.48.220.0022
80/25	○ 151.60.110.0022	○ 151.60.210.0022	○ 151.60.120.0022	○ 151.60.220.0022
80/40	○ 151.62.110.0022	○ 151.62.210.0022	○ 151.62.120.0022	○ 151.62.220.0022
80/50	○ 151.63.110.0022	○ 151.63.210.0022	○ 151.63.120.0022	○ 151.63.220.0022
80/65	● 151.64.110.0007	● 151.64.210.0007	● 151.64.120.0007	● 151.64.220.0007
100/25	○ 151.69.110.0022	○ 151.69.210.0022	○ 151.69.120.0022	○ 151.69.220.0022
100/40	○ 151.71.110.0022	○ 151.71.210.0022	○ 151.71.120.0022	○ 151.71.220.0022
100/50	○ 151.72.110.0022	○ 151.72.210.0022	○ 151.72.120.0022	○ 151.72.220.0022
100/65	● 151.73.110.0007	● 151.73.210.0007	○ 151.73.120.0007	○ 151.73.220.0007
100/80	● 151.75.110.0007	● 151.75.210.0007	● 151.75.120.0007	○ 151.75.220.0007
125/25	○ 151.79.110.0022	○ 151.79.210.0022	○ 151.79.120.0022	○ 151.79.220.0022
125/40	○ 151.81.110.0022	○ 151.81.210.0022	○ 151.81.120.0022	○ 151.81.220.0022
125/50	○ 151.82.110.0022	○ 151.82.210.0022	○ 151.82.120.0022	○ 151.82.220.0022
125/65	○ 151.83.110.0007	○ 151.83.210.0007	○ 151.83.120.0007	○ 151.83.220.0007
125/80	○ 151.85.110.0007	○ 151.85.210.0007	○ 151.85.120.0007	○ 151.85.220.0007
125/100	○ 151.86.110.0007	○ 151.86.210.0007	○ 151.86.120.0007	○ 151.86.220.0007
150/25	○ 151.90.110.0022	○ 151.90.210.0022	○ 151.90.120.0022	○ 151.90.220.0022
150/40	○ 151.92.110.0022	○ 151.92.210.0022	○ 151.92.120.0022	○ 151.92.220.0022
150/50	○ 151.93.110.0022	○ 151.93.210.0022	○ 151.93.120.0022	○ 151.93.220.0022
150/65	○ 151.94.110.0007	○ 151.94.210.0007	○ 151.94.120.0007	○ 151.94.220.0007
150/80	○ 151.96.110.0007	○ 151.96.210.0007	○ 151.96.120.0007	○ 151.96.220.0007
150/100	○ 151.97.110.0007	○ 151.97.210.0007	○ 151.97.120.0007	○ 151.97.220.0007
150/125	○ 151.98.110.0007	○ 151.98.210.0007	○ 151.98.120.0007	○ 151.98.220.0007

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 151.04.110.0000	○ 151.04.210.0000	○ 151.04.120.0000	○ 151.04.220.0000
15	● 151.06.110.0000	○ 151.06.210.0000	● 151.06.120.0000	● 151.06.220.0000
20	● 151.07.110.0000	● 151.07.210.0000	● 151.07.120.0000	● 151.07.220.0000
25	● 151.08.110.0000	● 151.08.210.0000	● 151.08.120.0000	● 151.08.220.0000
32	● 151.09.110.0000	● 151.09.210.0000	● 151.09.120.0000	● 151.09.220.0000
40	● 151.10.110.0000	● 151.10.210.0000	● 151.10.120.0000	● 151.10.220.0000
50	● 151.11.110.0000	● 151.11.210.0000	● 151.11.120.0000	● 151.11.220.0000

from DN 65 series 2

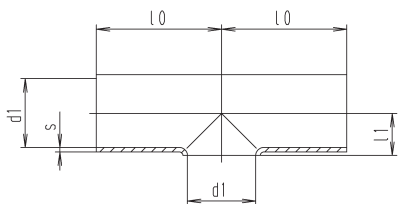
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 151.04.110.0002	● 151.04.210.0002	● 151.04.120.0002	● 151.04.220.0002
15	● 151.06.110.0002	● 151.06.210.0002	● 151.06.120.0002	● 151.06.220.0002
20	● 151.07.110.0002	● 151.07.210.0002	● 151.07.120.0002	● 151.07.220.0002
25	● 151.08.110.0002	● 151.08.210.0002	● 151.08.120.0002	● 151.08.220.0002
32	● 151.09.110.0002	● 151.09.210.0002	● 151.09.120.0002	● 151.09.220.0002
40	● 151.10.110.0002	● 151.10.210.0002	● 151.10.120.0002	● 151.10.220.0002
50	● 151.11.110.0002	● 151.11.210.0002	● 151.11.120.0002	● 151.11.220.0002

from DN 65 series 2

t-pieces, short, (for tubing similar DIN 11850) (5111)

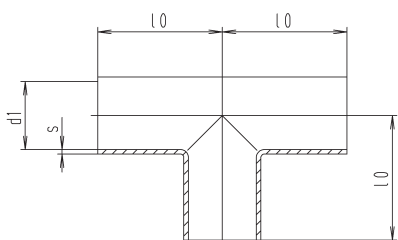
nocapius



DN	dI	l0	l1	s	weight (kg)
10	9	35	6.5	1.5	0,020
15	15	35	9.5	1.5	0,040
20	19	40	12	1.5	0,070
25	25	50	15.5	1.5	0,090
32	31	55	19	1.5	0,120
40	37	60	23.5	1.5	0,150
50	49	70	30	1.5	0,240

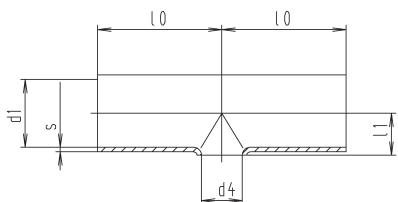
t-pieces, (for tubing similar DIN 11850)

nocapius



DN	dI	l0	s	weight (kg)
10	9	35	1.5	0,030
15	15	35	1.5	0,050
20	19	40	1.5	0,080
25	25	50	1.5	0,100
32	31	55	1.5	0,130
40	37	60	1.5	0,210
50	49	70	1.5	0,290

t-pieces, short, reduced (for tubing similar DIN 11850) (5227)



DN	dI	d4	l0	l1	s	weight (kg)
25/20	25	19	50	16	1.5	0,090
32/25	31	25	55	20.5	1.5	0,120
40/25	37	25	60	23.5	1.5	0,150
40/32	37	31	60	23	1.5	0,150
50/25	49	25	70	29	1.5	0,240
50/40	49	37	70	29	1.5	0,240
65/25	66	25	80	38	2	0,470
65/40	66	37	80	39.5	2	0,460
65/50	66	49	80	39	2	0,460
80/25	81	25	90	45.5	2	0,700
80/40	81	37	90	46.5	2	0,700
80/50	81	49	90	47	2	0,680
100/25	100	25	100	56	2	1,000
100/40	100	37	100	56	2	1,000
100/50	100	49	100	56	2	1,000
125/25	125	25	187	69.5	2	2,000
125/40	125	37	187	69.5	2	2,000
125/50	125	49	187	69.5	2	2,000
150/25	150	25	225	82	2	2,950
150/40	150	37	225	82	2	2,950
150/50	150	49	225	82	2	2,950

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
10	○ 151.04.120.0300	○ 151.04.220.0300
15	○ 151.06.120.0300	○ 151.06.220.0300
20	○ 151.07.120.0300	○ 151.07.220.0300
25	○ 151.08.120.0300	○ 151.08.220.0300
32	○ 151.09.120.0300	○ 151.09.220.0300
40	○ 151.10.120.0300	○ 151.10.220.0300
50	○ 151.11.120.0300	○ 151.11.220.0300
from DN 65 see series 2		

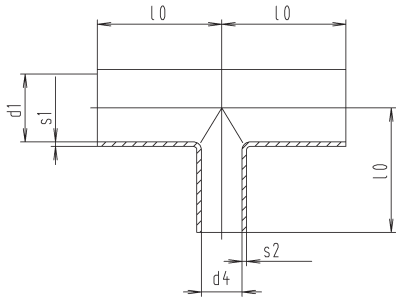
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
10	○ 151.04.120.0302	○ 151.04.220.0302
15	○ 151.06.120.0302	○ 151.06.220.0302
20	○ 151.07.120.0302	○ 151.07.220.0302
25	○ 151.08.120.0302	○ 151.08.220.0302
32	○ 151.09.120.0302	○ 151.09.220.0302
40	○ 151.10.120.0302	○ 151.10.220.0302
50	○ 151.11.120.0302	○ 151.11.220.0302
from DN 65 see series 2		

t-pieces, short, reduced (for tubing similar DIN 11850) (5227)

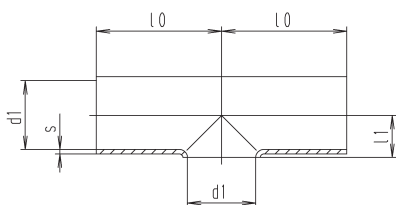
DN	Ident number	Ident number	Ident number	Ident number
25/20	● 151.26.110.0006	○ 151.26.210.0006	● 151.26.120.0006	○ 151.26.220.0006
32/25	○ 151.30.110.0006	○ 151.30.210.0006	● 151.30.120.0006	● 151.30.220.0006
40/25	● 151.34.110.0006	● 151.34.210.0006	● 151.34.120.0006	○ 151.34.220.0006
40/32	● 151.35.110.0006	● 151.35.210.0006	○ 151.35.120.0006	○ 151.35.220.0006
50/25	● 151.39.110.0006	● 151.39.210.0006	● 151.39.120.0006	● 151.39.220.0006
50/40	● 151.41.110.0006	● 151.41.210.0006	● 151.41.120.0006	● 151.41.220.0006
65/25	● 151.45.110.0006	● 151.45.210.0006	● 151.45.120.0006	○ 151.45.220.0006
65/40	● 151.47.110.0006	● 151.47.210.0006	○ 151.47.120.0006	○ 151.47.220.0006
65/50	● 151.48.110.0006	● 151.48.210.0006	● 151.48.120.0006	● 151.48.220.0006
80/25	● 151.60.110.0006	● 151.60.210.0006	● 151.60.120.0006	○ 151.60.220.0006
80/40	○ 151.62.110.0006	● 151.62.210.0006	● 151.62.120.0006	● 151.62.220.0006
80/50	● 151.63.110.0006	● 151.63.210.0006	● 151.63.120.0006	○ 151.63.220.0006
100/25	○ 151.69.110.0006	● 151.69.210.0006	○ 151.69.120.0006	○ 151.69.220.0006
100/40	● 151.71.110.0006	● 151.71.210.0006	○ 151.71.120.0006	○ 151.71.220.0006
100/50	● 151.72.110.0006	● 151.72.210.0006	● 151.72.120.0006	○ 151.72.220.0006
125/25	○ 151.79.110.0006	○ 151.79.210.0006	○ 151.79.120.0006	○ 151.79.220.0006
125/40	○ 151.81.110.0006	○ 151.81.210.0006	○ 151.81.120.0006	○ 151.81.220.0006
125/50	○ 151.82.110.0006	○ 151.82.210.0006	○ 151.82.120.0006	○ 151.82.220.0006
150/25	○ 151.90.110.0006	○ 151.90.210.0006	○ 151.90.120.0006	○ 151.90.220.0006
150/40	○ 151.92.110.0006	○ 151.92.210.0006	○ 151.92.120.0006	○ 151.92.220.0006
150/50	○ 151.93.110.0006	○ 151.93.210.0006	○ 151.93.120.0006	○ 151.93.220.0006

t-pieces, reduced (for tubing similar DIN 11850) (5228)



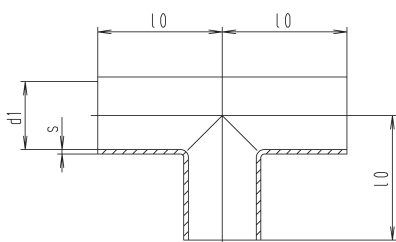
DN	d1	d4	l0	s1	s2	weight (kg)
25/20	25	19	50	1.5	1.5	0,120
32/25	31	25	55	1.5	1.5	0,150
40/25	37	25	60	1.5	1.5	0,180
40/32	37	31	60	1.5	1.5	0,200
50/25	49	25	70	1.5	1.5	0,270
50/40	49	37	70	1.5	1.5	0,310
65/25	66	25	80	2	1.5	0,500
65/40	66	37	80	2	1.5	0,510
65/50	66	49	80	2	1.5	0,600
80/25	81	25	90	2	1.5	0,730
80/40	81	37	90	2	1.5	0,740
80/50	81	49	90	2	1.5	0,760
100/25	100	25	100	2	1.5	1,020
100/40	100	37	100	2	1.5	1,060
100/50	100	49	100	2	1.5	1,080
125/25	125	25	187	2	1.5	2,020
125/40	125	37	187	2	1.5	2,040
125/50	125	49	187	2	1.5	2,070
150/25	150	25	225	2	1.5	2,980
150/40	150	37	225	2	1.5	2,990
150/50	150	49	225	2	1.5	3,020

t-pieces, short, inch (5111Z)



DN	d1	l0	l1	s	weight (kg)
1"	22.1	44	14	1.65	0,086
1½"	34.8	64	22	1.65	0,178
2"	47.5	89	29	1.65	0,350
2½"	60.2	114	35	1.65	0,520
3"	72.9	134	41	1.65	0,770
4"	97.4	174	55	2.11	1,590

t-pieces inch (5222Z)



DN	d1	l0	s	weight (kg)
1"	22.1	44	1.65	0,110
1½"	34.8	64	1.65	0,240
2"	47.5	89	1.65	0,470
2½"	60.2	114	1.65	0,700
3"	72.9	134	1.65	1,040
4"	97.4	174	2.11	2,130

t-pieces, reduced (for tubing similar DIN 11850) (5228)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25/20	○ 151.26.110.0007	○ 151.26.210.0007	● 151.26.120.0007	○ 151.26.220.0007
32/25	● 151.30.110.0007	○ 151.30.210.0007	● 151.30.120.0007	○ 151.30.220.0007
40/25	● 151.34.110.0007	● 151.34.210.0007	● 151.34.120.0007	○ 151.34.220.0007
40/32	● 151.35.110.0007	● 151.35.210.0007	● 151.35.120.0007	○ 151.35.220.0007
50/25	● 151.39.110.0007	● 151.39.210.0007	● 151.39.120.0007	● 151.39.220.0007
50/40	● 151.41.110.0007	● 151.41.210.0007	● 151.41.120.0007	○ 151.41.220.0007
65/25	○ 151.45.110.0007	● 151.45.210.0007	● 151.45.120.0007	○ 151.45.220.0007
65/40	● 151.47.110.0007	● 151.47.210.0007	● 151.47.120.0007	○ 151.47.220.0007
65/50	● 151.48.110.0007	● 151.48.210.0007	● 151.48.120.0007	○ 151.48.220.0007
80/25	○ 151.60.110.0007	○ 151.60.210.0007	● 151.60.120.0007	○ 151.60.220.0007
80/40	● 151.62.110.0007	○ 151.62.210.0007	● 151.62.120.0007	○ 151.62.220.0007
80/50	● 151.63.110.0007	● 151.63.210.0007	● 151.63.120.0007	○ 151.63.220.0007
100/25	○ 151.69.110.0007	○ 151.69.210.0007	○ 151.69.120.0007	○ 151.69.220.0007
100/40	○ 151.71.110.0007	○ 151.71.210.0007	● 151.71.120.0007	○ 151.71.220.0007
100/50	● 151.72.110.0007	● 151.72.210.0007	○ 151.72.120.0007	○ 151.72.220.0007
125/25	○ 151.79.110.0007	○ 151.79.210.0007	○ 151.79.120.0007	○ 151.79.220.0007
125/40	○ 151.81.110.0007	○ 151.81.210.0007	○ 151.81.120.0007	○ 151.81.220.0007
125/50	○ 151.82.110.0007	○ 151.82.210.0007	○ 151.82.120.0007	○ 151.82.220.0007
150/25	○ 151.90.110.0007	○ 151.90.210.0007	○ 151.90.120.0007	○ 151.90.220.0007
150/40	○ 151.92.110.0007	○ 151.92.210.0007	○ 151.92.120.0007	○ 151.92.220.0007
150/50	○ 151.93.110.0007	○ 151.93.210.0007	○ 151.93.120.0007	○ 151.93.220.0007

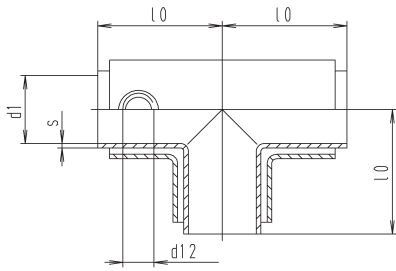
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 153.08.110.0004	○ 153.08.210.0004	○ 153.08.120.0004	○ 153.08.220.0004
1½"	○ 153.10.110.0004	○ 153.10.210.0004	○ 153.10.120.0004	○ 153.10.220.0004
2"	○ 153.11.110.0004	○ 153.11.210.0004	○ 153.11.120.0004	○ 153.11.220.0004
2½"	○ 153.12.110.0004	○ 153.12.210.0004	○ 153.12.120.0004	○ 153.12.220.0004
3"	○ 153.13.110.0004	○ 153.13.210.0004	○ 153.13.120.0004	○ 153.13.220.0004
4"	○ 153.15.110.0004	○ 153.15.210.0004	○ 153.15.120.0004	○ 153.15.220.0004

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

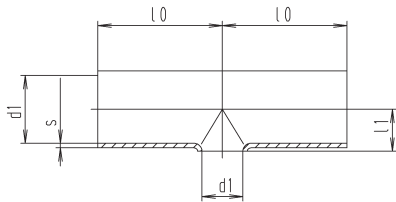
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 153.08.110.0005	○ 153.08.210.0005	○ 153.08.120.0005	○ 153.08.220.0005
1½"	○ 153.10.110.0005	○ 153.10.210.0005	○ 153.10.120.0005	○ 153.10.220.0005
2"	○ 153.11.110.0005	○ 153.11.210.0005	○ 153.11.120.0005	○ 153.11.220.0005
2½"	○ 153.12.110.0005	○ 153.12.210.0005	○ 153.12.120.0005	○ 153.12.220.0005
3"	○ 153.13.110.0005	○ 153.13.210.0005	○ 153.13.120.0005	○ 153.13.220.0005
4"	○ 153.15.110.0005	○ 153.15.210.0005	○ 153.15.120.0005	○ 153.15.220.0005

t-pieces, with heating jacket, inch



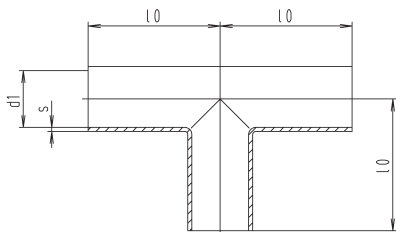
DN	dl	l0	s	d12	weight (kg)
1"	22.1	44	1.65	R1/2"	0,350
1½"	34.8	64	1.65	R1/2"	0,606
2"	47.5	89	1.65	R1/2"	1,162
2½"	60.2	114	1.65	R3/4"	1,720
3"	72.9	134	1.65	R3/4"	3,160
4"	97.4	174	2.11	R3/4"	4,840

t-pieces, short, SMS (5111S)



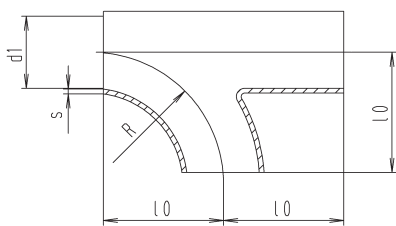
DN	dl	l0	l1	s	weight (kg)
25	22.6	55	14	1.2	0,069
32	29.6	64	18	1.2	0,144
38	35.6	70	22	1.2	0,145
51	48.6	82	29	1.2	0,220
63,5	60.3	105	35	1.6	0,420
76	72	110	41	2	0,735
101,6	97.6	150	55	2	1,120

t-pieces, SMS (5222S)



DN	dl	l0	s	weight (kg)
25	22.6	55	1.2	0,098
32	29.6	64	1.2	0,168
38	35.6	70	1.2	0,200
51	48.6	82	1.2	0,300
63,5	60.3	105	1.6	0,590
76	72	110	2	0,990
101,6	97.6	150	2	1,590

t-bend (for tubing acc. DIN 11850 line 2) (572N)



DN	dl	l0	R	s	weight (kg)
15	16	35	35	1.5	0,070
20	20	40	40	1.5	0,090
25	26	50	50	1.5	0,116
32	32	55	55	1.5	0,160
40	38	60	60	1.5	0,206
50	50	70	70	1.5	0,335
65	66	80	80	2	0,620
80	81	90	90	2	0,850
100	100	100	100	2	1,620
125	125	187	187	2	2,710
150	150	225	225	2	3,880
200	200	300	300	2	8,800
250	250	375	375	2	14,100

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 153.08.110.0020	○ 153.08.210.0020	○ 153.08.120.0020	○ 153.08.220.0020
1½"	○ 153.10.110.0020	○ 153.10.210.0020	○ 153.10.120.0020	○ 153.10.220.0020
2"	○ 153.11.110.0020	○ 153.11.210.0020	○ 153.11.120.0020	○ 153.11.220.0020
2½"	○ 153.12.110.0020	○ 153.12.210.0020	○ 153.12.120.0020	○ 153.12.220.0020
3"	○ 153.13.110.0020	○ 153.13.210.0020	○ 153.13.120.0020	○ 153.13.220.0020
4"	○ 153.15.110.0020	○ 153.15.210.0020	○ 153.15.120.0020	○ 153.15.220.0020

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 155.08.110.0002	○ 155.08.210.0002	○ 155.08.120.0002	○ 155.08.220.0002
32	○ 155.09.110.0002	○ 155.09.210.0002	○ 155.09.120.0002	○ 155.09.220.0002
38	○ 155.10.110.0002	○ 155.10.210.0002	○ 155.10.120.0002	○ 155.10.220.0002
51	○ 155.11.110.0002	○ 155.11.210.0002	○ 155.11.120.0002	○ 155.11.220.0002
63,5	○ 155.12.110.0002	○ 155.12.210.0002	○ 155.12.120.0002	○ 155.12.220.0002
76	○ 155.13.110.0002	○ 155.13.210.0002	○ 155.13.120.0002	○ 155.13.220.0002
101,6	○ 155.15.110.0002	○ 155.15.210.0002	○ 155.15.120.0002	○ 155.15.220.0002

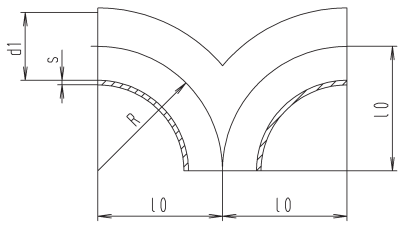
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 155.08.110.0000	○ 155.08.210.0000	○ 155.08.120.0000	○ 155.08.220.0000
32	○ 155.09.110.0000	○ 155.09.210.0000	○ 155.09.120.0000	○ 155.09.220.0000
38	○ 155.10.110.0000	○ 155.10.210.0000	○ 155.10.120.0000	○ 155.10.220.0000
51	○ 155.11.110.0000	○ 155.11.210.0000	○ 155.11.120.0000	○ 155.11.220.0000
63,5	○ 155.12.110.0000	○ 155.12.210.0000	○ 155.12.120.0000	○ 155.12.220.0000
76	○ 155.13.110.0000	○ 155.13.210.0000	○ 155.13.120.0000	○ 155.13.220.0000
101,6	○ 155.15.110.0000	○ 155.15.210.0000	○ 155.15.120.0000	○ 155.15.220.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

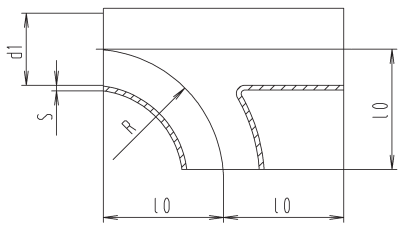
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15	○ 151.06.110.0019	○ 151.06.210.0019	○ 151.06.120.0019	○ 151.06.220.0019
20	● 151.07.110.0019	● 151.07.210.0019	● 151.07.120.0019	● 151.07.220.0019
25	● 151.08.110.0019	● 151.08.210.0019	● 151.08.120.0019	● 151.08.220.0019
32	● 151.09.110.0019	● 151.09.210.0019	● 151.09.120.0019	● 151.09.220.0019
40	● 151.10.110.0019	● 151.10.210.0019	● 151.10.120.0019	● 151.10.220.0019
50	● 151.11.110.0019	● 151.11.210.0019	● 151.11.120.0019	● 151.11.220.0019
65	● 151.12.110.0011	● 151.12.210.0011	● 151.12.120.0011	● 151.12.220.0011
80	● 151.14.110.0011	● 151.14.210.0011	● 151.14.120.0011	● 151.14.220.0011
100	● 151.15.110.0011	● 151.15.210.0011	● 151.15.120.0011	● 151.15.220.0011
125	○ 151.16.110.0011	○ 151.16.210.0011	○ 151.16.120.0011	○ 151.16.220.0011
150	○ 151.17.110.0011	○ 151.17.210.0011	○ 151.17.120.0011	○ 151.17.220.0011
200	○ 151.18.110.0011	○ 151.18.210.0011	○ 151.18.120.0011	○ 151.18.220.0011
250	○ 151.19.110.0011	○ 151.19.210.0011	○ 151.19.120.0011	○ 151.19.220.0011

y-joint for tubing acc. DIN 11850 line 2) (574N)



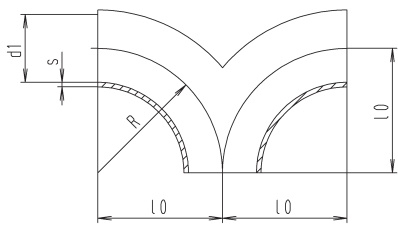
DN	dI	l0	R	s	weight (kg)
20	20	40	40	1.5	0,090
25	26	50	50	1.5	0,100
32	32	55	55	1.5	0,130
40	38	60	60	1.5	0,210
50	50	70	70	1.5	0,290
65	66	80	80	2	0,620
80	81	90	90	2	0,850
100	100	100	100	2	1,620
125	125	187	187	2	2,710
150	150	225	225	2	3,880
200	200	300	300	2	7,130
250	250	375	375	2	11,250

t-bend (for tubing similar DIN 11850) (572)



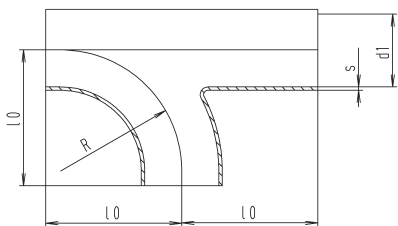
DN	dI	l0	R	s	weight (kg)
15	15	35	35	1.5	0,065
20	19	40	40	1.5	0,085
25	25	50	50	1.5	0,100
32	31	55	55	1.5	0,130
40	37	60	60	1.5	0,210
50	49	70	70	1.5	0,290

y-joint (for tubing similar DIN 11850) (574)



DN	dI	l0	R	s	weight (kg)
20	19	40	40	1.5	0,090
25	25	50	50	1.5	0,100
32	31	55	55	1.5	0,130
40	37	60	60	1.5	0,210
50	49	70	70	1.5	0,290

t-bend, inch (572Z)



DN	dI	l0	R	s	weight (kg)
1"	22.2	44	37.5	1.65	0,123
1½"	34.9	64	57	1.65	0,290
2"	47.6	89	76.5	1.65	0,535
2½"	60.3	114	95.3	1.65	0,860
3"	72.9	134	114.3	1.65	1,220
4"	97.6	174	152.5	2.11	2,250

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
20	● 151.07.110.0023	● 151.07.210.0023	● 151.07.120.0023	● 151.07.220.0023
25	● 151.08.110.0023	● 151.08.210.0023	● 151.08.120.0023	● 151.08.220.0023
32	● 151.09.110.0023	● 151.09.210.0023	● 151.09.120.0023	● 151.09.220.0023
40	● 151.10.110.0023	● 151.10.210.0023	● 151.10.120.0023	● 151.10.220.0023
50	● 151.11.110.0023	● 151.11.210.0023	● 151.11.120.0023	● 151.11.220.0023
65	● 151.12.110.0012	● 151.12.210.0012	● 151.12.120.0012	● 151.12.220.0012
80	● 151.14.110.0012	● 151.14.210.0012	● 151.14.120.0012	● 151.14.220.0012
100	● 151.15.110.0012	● 151.15.210.0012	● 151.15.120.0012	● 151.15.220.0012
125	○ 151.16.110.0012	○ 151.16.210.0012	○ 151.16.120.0012	○ 151.16.220.0012
150	○ 151.17.110.0012	○ 151.17.210.0012	○ 151.17.120.0012	○ 151.17.220.0012
200	○ 151.18.110.0012	○ 151.18.210.0012	○ 151.18.120.0012	○ 151.18.220.0012
250	○ 151.19.110.0012	○ 151.19.210.0012	○ 151.19.120.0012	○ 151.19.220.0012

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15	○ 151.06.110.0011	○ 151.06.210.0011	○ 151.06.120.0011	○ 151.06.220.0011
20	○ 151.07.110.0011	○ 151.07.210.0011	● 151.07.120.0011	○ 151.07.220.0011
25	● 151.08.110.0011	● 151.08.210.0011	● 151.08.120.0011	● 151.08.220.0011
32	● 151.09.110.0011	● 151.09.210.0011	● 151.09.120.0011	● 151.09.220.0011
40	● 151.10.110.0011	○ 151.10.210.0011	● 151.10.120.0011	● 151.10.220.0011
50	● 151.11.110.0011	● 151.11.210.0011	● 151.11.120.0011	● 151.11.220.0011

from DN 65 series 2

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

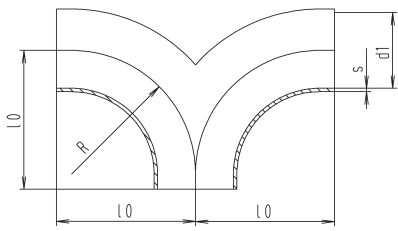
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
20	○ 151.07.110.0012	○ 151.07.210.0012	○ 151.07.120.0012	○ 151.07.220.0012
25	● 151.08.110.0012	● 151.08.210.0012	● 151.08.120.0012	● 151.08.220.0012
32	● 151.09.110.0012	● 151.09.210.0012	● 151.09.120.0012	● 151.09.220.0012
40	● 151.10.110.0012	● 151.10.210.0012	● 151.10.120.0012	● 151.10.220.0012
50	● 151.11.110.0012	● 151.11.210.0012	● 151.11.120.0012	● 151.11.220.0012

from DN 65 series 2

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

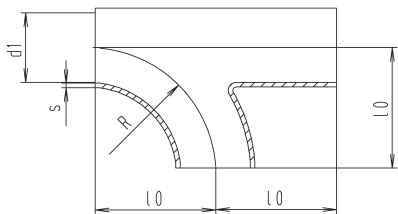
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 153.08.110.0008	○ 153.08.210.0008	○ 153.08.120.0008	○ 153.08.220.0008
1½"	○ 153.10.110.0008	○ 153.10.210.0008	○ 153.10.120.0008	○ 153.10.220.0008
2"	○ 153.11.110.0008	○ 153.11.210.0008	○ 153.11.120.0008	○ 153.11.220.0008
2½"	○ 153.12.110.0008	○ 153.12.210.0008	○ 153.12.120.0008	○ 153.12.220.0008
3"	○ 153.13.110.0008	○ 153.13.210.0008	○ 153.13.120.0008	○ 153.13.220.0008
4"	○ 153.15.110.0008	○ 153.15.210.0008	○ 153.15.120.0008	○ 153.15.220.0008

y-joint, inch (574Z)



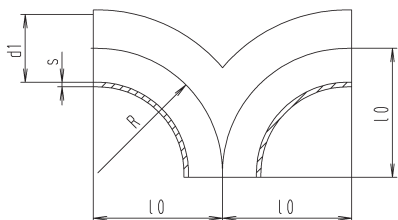
DN	dl	l0	R	s	weight (kg)
1"	22.2	44	37.5	1.65	0,110
1½"	34.9	64	57	1.65	0,230
2"	47.6	89	76.5	1.65	0,445
2½"	60.3	114	95.3	1.65	0,660
3"	72.9	134	114.2	1.65	0,995
4"	97.6	174	152.5	2.11	2,120

t-bend, SMS (572S)



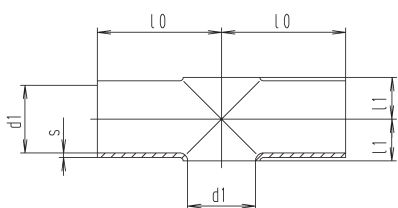
DN	dl	l0	R	s	weight (kg)
25	22.6	44	37.5	1.2	0,081
38	35.6	64	57	1.2	0,166
51	48.6	89	76.5	1.2	0,326
63,5	60.3	114	95.3	1.6	0,660
76	72.9	134	114.2	1.6	0,995
101,6	97.6	174	152.5	2	2,115

y-joint, SMS (574S)



DN	dl	l0	R	s	weight (kg)
25	22.6	44	37.5	1.2	0,081
38	35.6	64	57	1.2	0,166
51	48.6	89	76.5	1.2	0,326
63,5	60.3	114	95.3	1.6	0,660
76	72.9	134	114.2	1.6	0,995
101,6	97.6	174	152.5	2	2,115

cross, short (for tubing acc. DIN 11850 line 2) (577N)



DN	dl	l0	l1	s	weight (kg)
25	26	50	16	1.5	0,090
32	32	55	19.5	1.5	0,120
40	38	60	23	1.5	0,150
50	50	70	30	1.5	0,240
65	66	80	40	2	0,460
80	81	90	47.5	2	0,680
100	100	100	58	2	0,920

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 153.08.110.0009	○ 153.08.210.0009	○ 153.08.120.0009	○ 153.08.220.0009
1½"	○ 153.10.110.0009	○ 153.10.210.0009	○ 153.10.120.0009	○ 153.10.220.0009
2"	○ 153.11.110.0009	○ 153.11.210.0009	○ 153.11.120.0009	○ 153.11.220.0009
2½"	○ 153.12.110.0009	○ 153.12.210.0009	○ 153.12.120.0009	○ 153.12.220.0009
3"	○ 153.13.110.0009	○ 153.13.210.0009	○ 153.13.120.0009	○ 153.13.220.0009
4"	○ 153.15.110.0009	○ 153.15.210.0009	○ 153.15.120.0009	○ 153.15.220.0009

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 151.08.110.0028	○ 151.08.210.0028	○ 151.08.120.0028	○ 151.08.220.0028
38	○ 151.10.110.0028	○ 151.10.210.0028	○ 151.10.120.0028	○ 151.10.220.0028
51	○ 151.11.110.0028	○ 151.11.210.0028	○ 151.11.120.0028	○ 151.11.220.0028
63,5	○ 151.12.110.0028	○ 151.12.210.0028	○ 151.12.120.0028	○ 151.12.220.0028
76	○ 151.13.110.0028	○ 151.13.210.0028	○ 151.13.120.0028	○ 151.13.220.0028
101,6	○ 151.15.110.0028	○ 151.15.210.0028	○ 151.15.120.0028	○ 151.15.220.0028

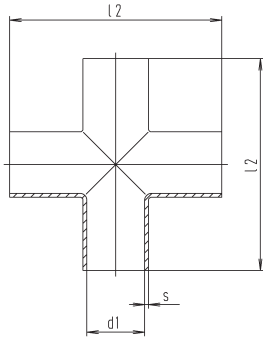
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 151.08.110.0029	○ 151.08.210.0029	○ 151.08.120.0029	○ 151.08.220.0029
38	○ 151.10.110.0029	○ 151.10.210.0029	○ 151.10.120.0029	○ 151.10.220.0029
51	○ 151.11.110.0029	○ 151.11.210.0029	○ 151.11.120.0029	○ 151.11.220.0029
63,5	○ 151.12.110.0029	○ 151.12.210.0029	○ 151.12.120.0029	○ 151.12.220.0029
76	○ 151.13.110.0029	○ 151.13.210.0029	○ 151.13.120.0029	○ 151.13.220.0029
101,6	○ 151.15.110.0029	○ 151.15.210.0029	○ 151.15.120.0029	○ 151.15.220.0029

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

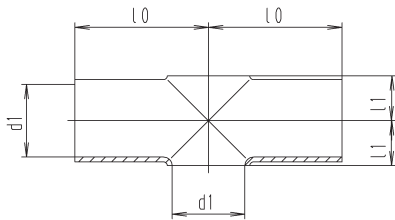
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 151.08.110.0031	○ 151.08.210.0031	○ 151.08.120.0031	○ 151.08.220.0031
32	○ 151.09.110.0031	○ 151.09.210.0031	○ 151.09.120.0031	○ 151.09.220.0031
40	○ 151.10.110.0031	○ 151.10.210.0031	○ 151.10.120.0031	○ 151.10.220.0031
50	○ 151.11.110.0031	○ 151.11.210.0031	○ 151.11.120.0031	○ 151.11.220.0031
65	● 151.12.110.0014	● 151.12.210.0014	○ 151.12.120.0014	○ 151.12.220.0014
80	○ 151.14.110.0014	○ 151.14.210.0014	○ 151.14.120.0014	○ 151.14.220.0014
100	● 151.15.110.0014	● 151.15.210.0014	○ 151.15.120.0014	○ 151.15.220.0014

cross, long (for tubing acc. DIN 11850 line 2) (576N)



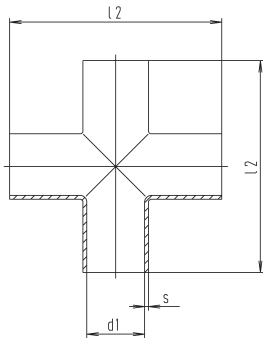
DN	d1	l2	s	weight (kg)
15	16	70	1.5	0,070
20	20	80	1.5	0,100
25	26	100	1.5	0,110
32	32	110	1.5	0,140
40	38	120	1.5	0,270
50	50	140	1.5	0,340
65	66	160	2	0,780
80	81	180	2	1,020
100	100	200	2	2,320
125	125	375	2	3,450
150	150	450	2	4,870
200	200	600	2	8,740
250	250	750	2	13,490

cross, short (for tubing similar DIN 11850) (577)



DN	d1	l0	l1	s	weight (kg)
15	15	35	9.5	1.5	0,040
20	19	40	12	1.5	0,070
25	25	50	15.5	1.5	0,090
32	31	55	19	1.5	0,120
40	37	60	23.5	1.5	0,150
50	49	70	30	1.5	0,240

cross, long (for tubing similar DIN 11850) (576)



DN	d1	l2	s	weight (kg)
15	15	70	1.5	0,070
20	19	80	1.5	0,100
25	25	100	1.5	0,110
32	31	110	1.5	0,140
40	37	120	1.5	0,270
50	49	140	1.5	0,340

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15	○ 151.06.110.0020	○ 151.06.210.0020	● 151.06.120.0020	○ 151.06.220.0020
20	○ 151.07.110.0020	○ 151.07.210.0020	○ 151.07.120.0020	○ 151.07.220.0020
25	○ 151.08.110.0020	○ 151.08.210.0020	● 151.08.120.0020	● 151.08.220.0020
32	○ 151.09.110.0020	○ 151.09.210.0020	● 151.09.120.0020	● 151.09.220.0020
40	○ 151.10.110.0020	○ 151.10.210.0020	● 151.10.120.0020	● 151.10.220.0020
50	○ 151.11.110.0020	○ 151.11.210.0020	● 151.11.120.0020	● 151.11.220.0020
65	● 151.12.110.0013	● 151.12.210.0013	● 151.12.120.0013	● 151.12.220.0013
80	● 151.14.110.0013	● 151.14.210.0013	● 151.14.120.0013	● 151.14.220.0013
100	○ 151.15.110.0013	○ 151.15.210.0013	○ 151.15.120.0013	○ 151.15.220.0013
125	○ 151.16.110.0013	○ 151.16.210.0013	○ 151.16.120.0013	○ 151.16.220.0013
150	○ 151.17.110.0013	○ 151.17.210.0013	○ 151.17.120.0013	○ 151.17.220.0013
200	○ 151.18.110.0013	○ 151.18.210.0013	○ 151.18.120.0013	○ 151.18.220.0013
250	○ 151.19.110.0013	○ 151.19.210.0013	○ 151.19.120.0013	○ 151.19.220.0013

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15	○ 151.06.110.0014	○ 151.06.210.0014	○ 151.06.120.0014	○ 151.06.220.0014
20	○ 151.07.110.0014	○ 151.07.210.0014	○ 151.07.120.0014	○ 151.07.220.0014
25	● 151.08.110.0014	● 151.08.210.0014	● 151.08.120.0014	● 151.08.220.0014
32	● 151.09.110.0014	● 151.09.210.0014	● 151.09.120.0014	● 151.09.220.0014
40	● 151.10.110.0014	○ 151.10.210.0014	● 151.10.120.0014	○ 151.10.220.0014
50	● 151.11.110.0014	● 151.11.210.0014	● 151.11.120.0014	● 151.11.220.0014

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15	● 151.06.110.0013	○ 151.06.210.0013	● 151.06.120.0013	○ 151.06.220.0013
20	● 151.07.110.0013	○ 151.07.210.0013	○ 151.07.120.0013	○ 151.07.220.0013
25	● 151.08.110.0013	● 151.08.210.0013	● 151.08.120.0013	● 151.08.220.0013
32	● 151.09.110.0013	● 151.09.210.0013	○ 151.09.120.0013	○ 151.09.220.0013
40	● 151.10.110.0013	● 151.10.210.0013	● 151.10.120.0013	● 151.10.220.0013
50	● 151.11.110.0013	● 151.11.210.0013	● 151.11.120.0013	● 151.11.220.0013

Special assembly of components

Description

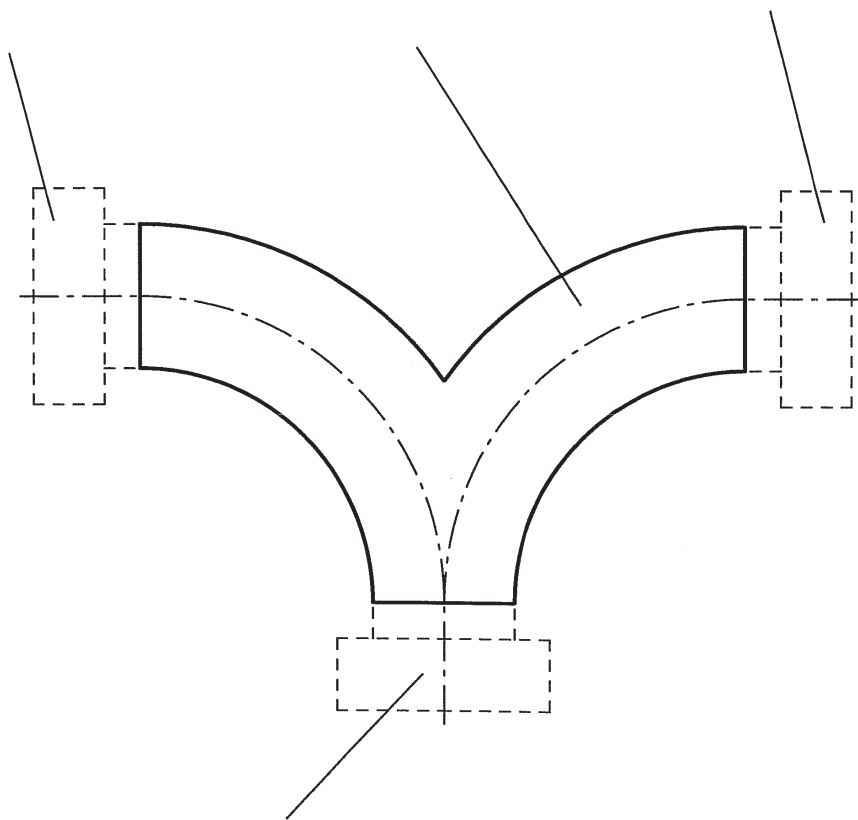
Article number:

Description

Article number:

Description

Article number:



Description

Article number:

Material:

Surface:

Quantity:

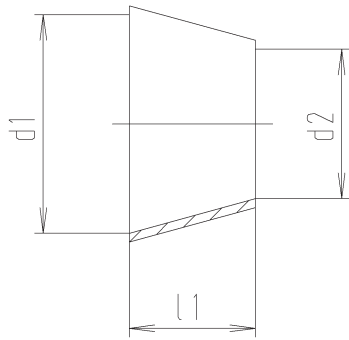
This article can be combined with other parts of the Nocado product range. Please send us the completed form, so that we can submit the corresponding offer.

2.1 Pipes, tubing and fittings

2.1.4 Reducers, adapters

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reducer, concentric, DIN 11852 (for tubing acc. DIN 11850 line 2) (322)



DN	d1	d2	l1	weight (kg)
15/10	16	10	11	0,010
20/10	20	10	18	0,010
20/15	20	16	7	0,010
25/10	26	10	28	0,020
25/15	26	16	18	0,020
25/20	26	20	11	0,010
32/20	32	20	22	0,020
32/25	32	26	11	0,020
40/15	38	16	40	0,040
40/20	38	20	33	0,040
40/25	38	26	22	0,030
40/32	38	32	11	0,040
50/25	50	26	44	0,080
50/32	50	32	33	0,080
50/40	50	38	22	0,090
65/25	66	26	73	0,130
65/32	66	32	62	0,120
65/40	66	38	51	0,110
65/50	66	50	29	0,090
80/25	81	26	100	0,200
80/32	81	32	89	0,180
80/40	81	38	78	0,160
80/50	81	50	56	0,120
80/65	81	66	27	0,110
100/50	100	50	90	0,290
100/65	100	66	61	0,280
100/80	100	81	34	0,170
125/50	125	50	135	0,530
125/65	125	66	106	0,440
125/80	125	81	79	0,410
125/100	125	100	45	0,550
150/65	150	66	151	0,730
150/80	150	81	124	0,610
150/100	150	100	90	0,450
150/125	150	125	45	0,400
200/65	200	66	241	-
200/80	200	81	214	-
200/100	200	100	180	1,240
200/125	200	125	135	1,000
200/150	200	150	90	0,790
250/80	250	81	304	-
250/100	250	100	270	-
250/125	250	125	225	-
250/150	250	150	180	-
250/200	250	200	90	1,007

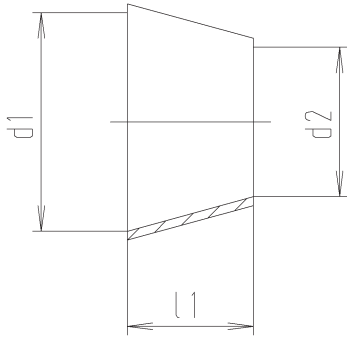
reducer, concentric, DIN 11852 (for tubing acc. DIN 11850 line 2) (322)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15/10	● 131.21.110.0000	● 131.21.210.0000	● 131.21.120.0000	● 131.21.220.0000
20/10	● 131.22.110.0000	● 131.22.210.0000	● 131.22.120.0000	● 131.22.220.0000
20/15	● 131.23.110.0000	● 131.23.210.0000	● 131.23.120.0000	● 131.23.220.0000
25/10	● 131.24.110.0000	● 131.24.210.0000	● 131.24.120.0000	● 131.24.220.0000
25/15	● 131.25.110.0000	● 131.25.210.0000	● 131.25.120.0000	● 131.25.220.0000
25/20	● 131.26.110.0000	● 131.26.210.0000	● 131.26.120.0000	● 131.26.220.0000
32/20	● 131.29.110.0000	● 131.29.210.0000	● 131.29.120.0000	● 131.29.220.0000
32/25	● 131.30.110.0000	● 131.30.210.0000	● 131.30.120.0000	● 131.30.220.0000
40/15	● 131.32.110.0000	● 131.32.210.0000	● 131.32.120.0000	● 131.32.220.0000
40/20	● 131.33.110.0000	● 131.33.210.0000	● 131.33.120.0000	● 131.33.220.0000
40/25	● 131.34.110.0000	● 131.34.210.0000	● 131.34.120.0000	● 131.34.220.0000
40/32	● 131.35.110.0000	● 131.35.210.0000	● 131.35.120.0000	● 131.35.220.0000
50/25	● 131.39.110.0000	● 131.39.210.0000	● 131.39.120.0000	● 131.39.220.0000
50/32	● 131.40.110.0000	● 131.40.210.0000	● 131.40.120.0000	● 131.40.220.0000
50/40	● 131.41.110.0000	● 131.41.210.0000	● 131.41.120.0000	● 131.41.220.0000
65/25	● 131.45.110.0000	● 131.45.210.0000	● 131.45.120.0000	● 131.45.220.0000
65/32	● 131.46.110.0000	● 131.46.210.0000	● 131.46.120.0000	● 131.46.220.0000
65/40	● 131.47.110.0000	● 131.47.210.0000	● 131.47.120.0000	● 131.47.220.0000
65/50	● 131.48.110.0000	● 131.48.210.0000	● 131.48.120.0000	● 131.48.220.0000
80/25	● 131.60.110.0000	● 131.60.210.0000	● 131.60.120.0000	● 131.60.220.0000
80/32	● 131.61.110.0000	● 131.61.210.0000	● 131.61.120.0000	● 131.61.220.0000
80/40	● 131.62.110.0000	● 131.62.210.0000	● 131.62.120.0000	● 131.62.220.0000
80/50	● 131.63.110.0000	● 131.63.210.0000	● 131.63.120.0000	● 131.63.220.0000
80/65	● 131.64.110.0000	● 131.64.210.0000	● 131.64.120.0000	● 131.64.220.0000
100/50	● 131.72.110.0000	● 131.72.210.0000	● 131.72.120.0000	● 131.72.220.0000
100/65	● 131.73.110.0000	● 131.73.210.0000	● 131.73.120.0000	● 131.73.220.0000
100/80	● 131.75.110.0000	● 131.75.210.0000	● 131.75.120.0000	● 131.75.220.0000
125/50	○ 131.82.110.0000	○ 131.82.210.0000	○ 131.82.120.0000	○ 131.82.220.0000
125/65	● 131.83.110.0000	● 131.83.210.0000	● 131.83.120.0000	● 131.83.220.0000
125/80	● 131.85.110.0000	● 131.85.210.0000	● 131.85.120.0000	● 131.85.220.0000
125/100	● 131.86.110.0000	● 131.86.210.0000	● 131.86.120.0000	● 131.86.220.0000
150/65	○ 131.94.110.0000	○ 131.94.210.0000	○ 131.94.120.0000	○ 131.94.220.0000
150/80	● 131.96.110.0000	● 131.96.210.0000	● 131.96.120.0000	● 131.96.220.0000
150/100	● 131.97.110.0000	● 131.97.210.0000	● 131.97.120.0000	● 131.97.220.0000
150/125	● 131.98.110.0000	● 131.98.210.0000	● 131.98.120.0000	● 131.98.220.0000
200/65	○ 131.9L.110.0000	○ 131.9L.210.0000	○ 131.9L.120.0000	○ 131.9L.220.0000
200/80	○ 131.9N.110.0000	○ 131.9N.210.0000	○ 131.9N.120.0000	○ 131.9N.220.0000
200/100	○ 131.9O.110.0000	○ 131.9O.210.0000	○ 131.9O.120.0000	○ 131.9O.220.0000
200/125	○ 131.9P.110.0000	○ 131.9P.210.0000	○ 131.9P.120.0000	○ 131.9P.220.0000
200/150	○ 131.9Q.110.0000	○ 131.9Q.210.0000	○ 131.9Q.120.0000	○ 131.9Q.220.0000
250/80	○ 131.B3.110.0000	○ 131.B3.210.0000	○ 131.B3.120.0000	○ 131.B3.220.0000
250/100	○ 131.B4.110.0000	○ 131.B4.210.0000	○ 131.B4.120.0000	○ 131.B4.220.0000
250/125	○ 131.B5.110.0000	○ 131.B5.210.0000	○ 131.B5.120.0000	○ 131.B5.220.0000
250/150	○ 131.B6.110.0000	○ 131.B6.210.0000	○ 131.B6.120.0000	○ 131.B6.220.0000
250/200	○ 131.B7.110.0000	○ 131.B7.210.0000	○ 131.B7.120.0000	○ 131.B7.220.0000

suitable for DIN 11850 series 1 as well

reducer, concentric, DIN 11852 (for tubing acc. DIN 11850 line 2) (322)

nocapius



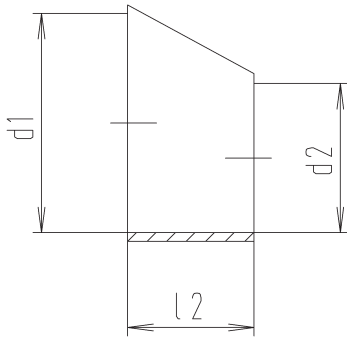
DN	d1	d2	l1	weight (kg)
15/10	16	10	11	0,010
20/10	20	10	18	0,010
20/15	20	16	7	0,010
25/10	26	10	28	0,020
25/15	26	16	18	0,020
25/20	26	20	11	0,010
32/20	32	20	22	0,020
32/25	32	26	11	0,020
40/15	38	16	40	0,040
40/20	38	20	33	0,040
40/25	38	26	22	0,030
40/32	38	32	11	0,040
50/25	50	26	44	0,080
50/32	50	32	33	0,080
50/40	50	38	22	0,090
65/25	66	26	73	0,130
65/32	66	32	62	0,120
65/40	66	38	51	0,110
65/50	66	50	29	0,090
80/25	81	26	100	0,200
80/32	81	32	89	0,180
80/40	81	38	78	0,160
80/50	81	50	56	0,120
80/65	81	66	27	0,110
100/50	100	50	90	0,290
100/65	100	66	61	0,280
100/80	100	81	34	0,170
125/50	125	50	135	0,530
125/65	125	66	106	0,440
125/80	125	81	79	0,410
125/100	125	100	45	0,550
150/65	150	66	151	0,730
150/80	150	81	124	0,610
150/100	150	100	90	0,450
150/125	150	125	45	0,400
200/65	200	66	241	-
200/80	200	81	214	-
200/100	200	100	180	1,240
200/125	200	125	135	1,000
200/150	200	150	90	0,790
250/80	250	81	304	-
250/100	250	100	270	-
250/125	250	125	225	-
250/150	250	150	180	-
250/200	250	200	90	1,007

reducer, concentric, DIN 11852 (for tubing acc. DIN 11850 line 2) (322)

DN	316 L polished Ident number	316 L matt Ident number
15/10	o 131.21.120.0300	o 131.21.220.0300
20/10	o 131.22.120.0300	o 131.22.220.0300
20/15	o 131.23.120.0300	o 131.23.220.0300
25/10	o 131.24.120.0300	o 131.24.220.0300
25/15	o 131.25.120.0300	o 131.25.220.0300
25/20	o 131.26.120.0300	o 131.26.220.0300
32/20	o 131.29.120.0300	o 131.29.220.0300
32/25	o 131.30.120.0300	o 131.30.220.0300
40/15	o 131.32.120.0300	o 131.32.220.0300
40/20	o 131.33.120.0300	o 131.33.220.0300
40/25	o 131.34.120.0300	o 131.34.220.0300
40/32	o 131.35.120.0300	o 131.35.220.0300
50/25	o 131.39.120.0300	o 131.39.220.0300
50/32	o 131.40.120.0300	o 131.40.220.0300
50/40	o 131.41.120.0300	o 131.41.220.0300
65/25	o 131.45.120.0300	o 131.45.220.0300
65/32	o 131.46.120.0300	o 131.46.220.0300
65/40	o 131.47.120.0300	o 131.47.220.0300
65/50	o 131.48.120.0300	o 131.48.220.0300
80/25	o 131.60.120.0300	o 131.60.220.0300
80/32	o 131.61.120.0300	o 131.61.220.0300
80/40	o 131.62.120.0300	o 131.62.220.0300
80/50	o 131.63.120.0300	o 131.63.220.0300
80/65	o 131.64.120.0300	o 131.64.220.0300
100/50	o 131.72.120.0300	o 131.72.220.0300
100/65	o 131.73.120.0300	o 131.73.220.0300
100/80	o 131.75.120.0300	o 131.75.220.0300
125/50	o 131.82.120.0300	o 131.82.220.0300
125/65	o 131.83.120.0300	o 131.83.220.0300
125/80	o 131.85.120.0300	o 131.85.220.0300
125/100	o 131.86.120.0300	o 131.86.220.0300
150/65	o 131.94.120.0300	o 131.94.220.0300
150/80	o 131.96.120.0300	o 131.96.220.0300
150/100	o 131.97.120.0300	o 131.97.220.0300
150/125	o 131.98.120.0300	o 131.98.220.0300
200/65	o 131.9L.120.0300	o 131.9L.220.0300
200/80	o 131.9N.120.0300	o 131.9N.220.0300
200/100	o 131.9O.120.0300	o 131.9O.220.0300
200/125	o 131.9P.120.0300	o 131.9P.220.0300
200/150	o 131.9Q.120.0300	o 131.9Q.220.0300
250/80	o 131.B3.120.0300	o 131.B3.220.0300
250/100	o 131.B4.120.0300	o 131.B4.220.0300
250/125	o 131.B5.120.0300	o 131.B5.220.0300
250/150	o 131.B6.120.0300	o 131.B6.220.0300
250/200	o 131.B7.120.0300	o 131.B7.220.0300

suitable for DIN 11850 series 1 as well

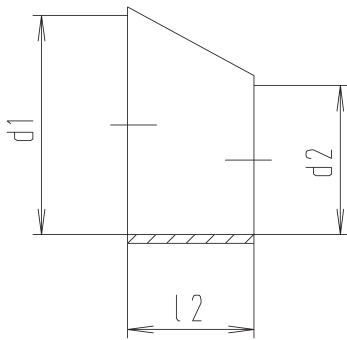
reducer, eccentric, DIN 11852 (for tubing acc. DIN 11850 line 2) (322ex)



DN	d1	d2	l2	weight (kg)
15/10	16	10	16.5	0,010
20/15	20	16	11	0,010
25/20	26	20	16.5	0,030
32/20	32	20	33	0,030
32/25	32	26	16.5	0,040
40/25	38	26	33	0,050
40/32	38	32	16.5	0,070
50/40	50	38	33	0,070
65/50	66	50	44	0,110
80/65	81	66	41	0,140
100/80	100	81	52.5	0,200
125/100	125	100	68.5	0,280
150/125	150	125	68.5	0,290

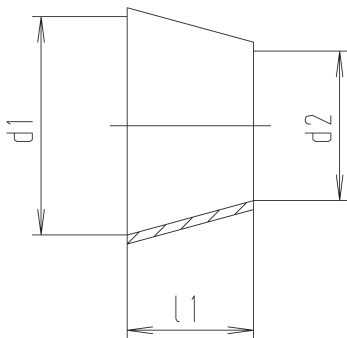
reducer, eccentric, DIN 11852 (for tubing acc. DIN 11850 line 2) (322ex)

nocaplus



DN	d1	d2	l2	weight (kg)
15/10	16	10	16.5	0,010
20/15	20	16	11	0,010
25/20	26	20	16.5	0,030
32/20	32	20	33	0,030
32/25	32	26	16.5	0,040
40/25	38	26	33	0,050
40/32	38	32	16.5	0,070
50/40	50	38	33	0,070
65/50	66	50	44	0,110
80/65	81	66	41	0,140
100/80	100	81	52.5	0,200
125/100	125	100	68.5	0,280
150/125	150	125	68.5	0,290

reducer, concentric, inch (322Z)



DN	d1	d2	l1	weight (kg)
1¼" / 1"	29.3	22.9	11.5	0,020
1½" / 1"	35.1	22.9	22	0,030
1½" / 1¼"	35.1	29.3	10.5	0,040
2" / 1"	47.8	22.9	45	0,080
2" / 1¼"	47.8	29.3	33	0,080
2" / 1½"	47.8	35.1	23	0,090
2½" / 1"	60.5	22.9	68	0,130
2½" / 1¼"	60.5	29.3	56	0,120
2½" / 1½"	60.5	35.1	45.5	0,110
2½" / 2"	60.5	47.8	23	0,090
3" / 1"	72.1	22.9	89	0,200
3" / 1¼"	72.1	29.3	77	0,180
3" / 1½"	72.1	35.1	67	0,160
3" / 2"	72.1	47.8	44	0,120
3" / 2½"	72.1	60.5	21	0,110
4" / 1"	97.6	22.9	135	0,370
4" / 1¼"	97.6	29.3	123	0,360
4" / 1½"	97.6	35.1	113	0,320
4" / 2"	97.6	47.8	90	0,290
4" / 2½"	97.6	60.5	67	0,240
4" / 3"	97.6	72.1	46	0,170

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15/10	○ 132.21.110.0001	○ 132.21.210.0001	○ 132.21.120.0001	○ 132.21.220.0001
20/15	○ 132.23.110.0001	○ 132.23.210.0001	○ 132.23.120.0001	○ 132.23.220.0001
25/20	○ 132.26.110.0001	○ 132.26.210.0001	○ 132.26.120.0001	○ 132.26.220.0001
32/20	○ 132.29.110.0001	○ 132.29.210.0001	○ 132.29.120.0001	○ 132.29.220.0001
32/25	○ 132.30.110.0001	○ 132.30.210.0001	○ 132.30.120.0001	○ 132.30.220.0001
40/25	○ 132.34.110.0001	○ 132.34.210.0001	○ 132.34.120.0001	○ 132.34.220.0001
40/32	○ 132.35.110.0001	○ 132.35.210.0001	○ 132.35.120.0001	○ 132.35.220.0001
50/40	○ 132.41.110.0001	○ 132.41.210.0001	○ 132.41.120.0001	○ 132.41.220.0001
65/50	○ 132.48.110.0001	○ 132.48.210.0001	○ 132.48.120.0001	○ 132.48.220.0001
80/65	○ 132.64.110.0001	○ 132.64.210.0001	○ 132.64.120.0001	○ 132.64.220.0001
100/80	○ 132.75.110.0001	○ 132.75.210.0001	○ 132.75.120.0001	○ 132.75.220.0001
125/100	○ 132.86.110.0001	○ 132.86.210.0001	○ 132.86.120.0001	○ 132.86.220.0001
150/125	○ 132.98.110.0001	○ 132.98.210.0001	○ 132.98.120.0001	○ 132.98.220.0001

suitable for DIN 11850 series I as well

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	316 L polished Ident number	316 L matt Ident number
15/10	○ 132.21.120.0301	○ 132.21.220.0301
20/15	○ 132.23.120.0301	○ 132.23.220.0301
25/20	○ 132.26.120.0301	○ 132.26.220.0301
32/20	○ 132.29.120.0301	○ 132.29.220.0301
32/25	○ 132.30.120.0301	○ 132.30.220.0301
40/25	○ 132.34.120.0301	○ 132.34.220.0301
40/32	○ 132.35.120.0301	○ 132.35.220.0301
50/40	○ 132.41.120.0301	○ 132.41.220.0301
65/50	○ 132.48.120.0301	○ 132.48.220.0301
80/65	○ 132.64.120.0301	○ 132.64.220.0301
100/80	○ 132.75.120.0301	○ 132.75.220.0301
125/100	○ 132.86.120.0301	○ 132.86.220.0301
150/125	○ 132.98.120.0301	○ 132.98.220.0301

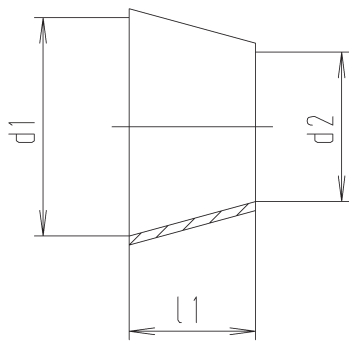
suitable for DIN 11850 series I as well

reducer, concentric, inch (322Z)

DN	Ident number	Ident number	Ident number	Ident number
1¼" / 1"	○ 133.30.110.0000	○ 133.30.210.0000	● 133.30.120.0000	● 133.30.220.0000
1½" / 1"	● 133.34.110.0000	● 133.34.210.0000	● 133.34.120.0000	● 133.34.220.0000
1½" / 1¼"	● 133.35.110.0000	● 133.35.210.0000	● 133.35.120.0000	● 133.35.220.0000
2" / 1"	● 133.39.110.0000	● 133.39.210.0000	● 133.39.120.0000	● 133.39.220.0000
2" / 1¼"	○ 133.40.110.0000	○ 133.40.210.0000	● 133.40.120.0000	● 133.40.220.0000
2" / 1½"	● 133.41.110.0000	● 133.41.210.0000	● 133.41.120.0000	● 133.41.220.0000
2½" / 1"	○ 133.45.110.0000	○ 133.45.210.0000	○ 133.45.120.0000	○ 133.45.220.0000
2½" / 1¼"	○ 133.46.110.0000	○ 133.46.210.0000	○ 133.46.120.0000	○ 133.46.220.0000
2½" / 1½"	● 133.47.110.0000	● 133.47.210.0000	● 133.47.120.0000	● 133.47.220.0000
2½" / 2"	● 133.48.110.0000	● 133.48.210.0000	● 133.48.120.0000	● 133.48.220.0000
3" / 1"	○ 133.52.110.0000	○ 133.52.210.0000	● 133.52.120.0000	● 133.52.220.0000
3" / 1¼"	○ 133.53.110.0000	○ 133.53.210.0000	○ 133.53.120.0000	○ 133.53.220.0000
3" / 1½"	● 133.54.110.0000	● 133.54.210.0000	● 133.54.120.0000	● 133.54.220.0000
3" / 2"	● 133.55.110.0000	● 133.55.210.0000	● 133.55.120.0000	● 133.55.220.0000
3" / 2½"	● 133.56.110.0000	● 133.56.210.0000	● 133.56.120.0000	● 133.56.220.0000
4" / 1"	○ 133.69.110.0000	○ 133.69.210.0000	○ 133.69.120.0000	○ 133.69.220.0000
4" / 1¼"	○ 133.70.110.0000	○ 133.70.210.0000	○ 133.70.120.0000	○ 133.70.220.0000
4" / 1½"	○ 133.71.110.0000	○ 133.71.210.0000	○ 133.71.120.0000	○ 133.71.220.0000
4" / 2"	● 133.72.110.0000	● 133.72.210.0000	● 133.72.120.0000	● 133.72.220.0000
4" / 2½"	● 133.73.110.0000	● 133.73.210.0000	● 133.73.120.0000	● 133.73.220.0000
4" / 3"	● 133.74.110.0000	● 133.74.210.0000	● 133.74.120.0000	● 133.74.220.0000

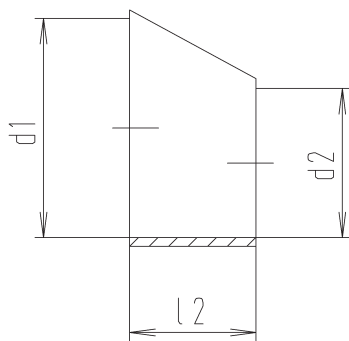
reducer, concentric, inch (322Z)

nocapius



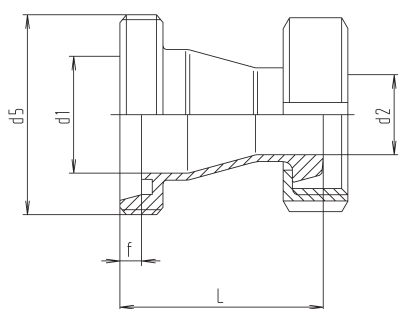
DN	d1	d2	l1	weight (kg)
1¼" / 1"	29.3	22.9	11.5	0,020
1½" / 1"	35.1	22.9	22	0,030
1½" / 1¼"	35.1	29.3	10.5	0,040
2" / 1"	47.8	22.9	45	0,080
2" / 1¼"	47.8	29.3	33	0,080
2" / 1½"	47.8	35.1	23	0,090
2½" / 1"	60.5	22.9	68	0,130
2½" / 1¼"	60.5	29.3	56	0,120
2½" / 1½"	60.5	35.1	45.5	0,110
2½" / 2"	60.5	47.8	23	0,090
3" / 1"	72.1	22.9	89	0,200
3" / 1¼"	72.1	29.3	77	0,180
3" / 1½"	72.1	35.1	67	0,160
3" / 2"	72.1	47.8	44	0,120
3" / 2½"	72.1	60.5	21	0,110
4" / 1"	97.6	22.9	135	0,370
4" / 1¼"	97.6	29.3	123	0,360
4" / 1½"	97.6	35.1	113	0,320
4" / 2"	97.6	47.8	90	0,290
4" / 2½"	97.6	60.5	67	0,240
4" / 3"	97.6	72.1	46	0,170

reducer, eccentric, inch (322zex)



DN	d1	d2	l2	weight (kg)
1¼" / 1"	29.3	22.9	12	0,040
1½" / 1"	35.1	22.9	23	0,050
1½" / 1¼"	35.1	29.3	11	0,070
2" / 1"	47.8	22.9	47	0,080
2" / 1½"	47.8	35.1	24	0,070
2½" / 1½"	60.5	35.1	48	0,170
2½" / 2"	60.5	47.8	24	0,110
3" / 2"	73.1	47.8	46	0,200
3" / 2½"	73.1	60.5	22	0,130
4" / 2½"	97.6	60.5	70	0,340
4" / 3"	97.6	73.1	48	0,210

reducer, concentric, male/liner, DIN (356)



DN	d1	d2	d5	f	L	weight (kg)
32/25	32	26	58x1/6"	7	55	0,350
40/25	38	26	65x1/6"	7	66	0,450
40/32	38	32	65x1/6"	7	58	0,500
50/32	50	32	78x1/6"	7	81	0,570
50/40	50	38	78x1/6"	7	71	0,640
65/40	66	38	95x1/6"	8	102	0,730
65/50	66	50	95x1/6"	8	82	0,870
80/50	81	50	110x1/4"	8	109	1,050
80/65	81	66	110x1/4"	8	84	1,350
100/65	100	66	130x1/4"	10	123	1,430
100/80	100	81	130x1/4"	10	101	1,100

reducer, concentric, inch (322Z)

DN	316 L polished Ident number	316 L matt Ident number
1¼" / 1"	○ 133.30.120.0300	○ 133.30.220.0300
1½" / 1"	○ 133.34.120.0300	○ 133.34.220.0300
1½" / 1¼"	○ 133.35.120.0300	○ 133.35.220.0300
2" / 1"	○ 133.39.120.0300	○ 133.39.220.0300
2" / 1¼"	○ 133.40.120.0300	○ 133.40.220.0300
2" / 1½"	○ 133.41.120.0300	○ 133.41.220.0300
2½" / 1"	○ 133.45.120.0300	○ 133.45.220.0300
2½" / 1¼"	○ 133.46.120.0300	○ 133.46.220.0300
2½" / 1½"	○ 133.47.120.0300	○ 133.47.220.0300
2½" / 2"	○ 133.48.120.0300	○ 133.48.220.0300
3" / 1"	○ 133.52.120.0300	○ 133.52.220.0300
3" / 1¼"	○ 133.53.120.0300	○ 133.53.220.0300
3" / 1½"	○ 133.54.120.0300	○ 133.54.220.0300
3" / 2"	○ 133.55.120.0300	○ 133.55.220.0300
3" / 2½"	○ 133.56.120.0300	○ 133.56.220.0300
4" / 1"	○ 133.69.120.0300	○ 133.69.220.0300
4" / 1¼"	○ 133.70.120.0300	○ 133.70.220.0300
4" / 1½"	○ 133.71.120.0300	○ 133.71.220.0300
4" / 2"	○ 133.72.120.0300	○ 133.72.220.0300
4" / 2½"	○ 133.73.120.0300	○ 133.73.220.0300
4" / 3"	○ 133.74.120.0300	○ 133.74.220.0300

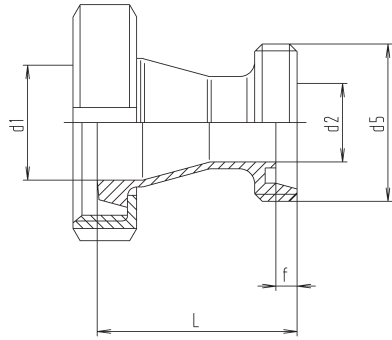
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1¼" / 1"	○ 134.30.110.0000	○ 134.30.210.0000	○ 134.30.120.0000	○ 134.30.220.0000
1½" / 1"	● 134.34.110.0000	● 134.34.210.0000	● 134.34.120.0000	● 134.34.220.0000
1½" / 1¼"	○ 134.35.110.0000	○ 134.35.210.0000	○ 134.35.120.0000	○ 134.35.220.0000
2" / 1"	● 134.39.110.0000	● 134.39.210.0000	● 134.39.120.0000	● 134.39.220.0000
2" / 1½"	● 134.41.110.0000	● 134.41.210.0000	● 134.41.120.0000	● 134.41.220.0000
2½" / 1½"	● 134.47.110.0000	● 134.47.210.0000	● 134.47.120.0000	● 134.47.220.0000
2½" / 2"	● 134.48.110.0000	● 134.48.210.0000	● 134.48.120.0000	● 134.48.220.0000
3" / 2"	● 134.55.110.0000	● 134.55.210.0000	● 134.55.120.0000	● 134.55.220.0000
3" / 2½"	○ 134.56.110.0000	○ 134.56.210.0000	○ 134.56.120.0000	○ 134.56.220.0000
4" / 2½"	○ 134.73.110.0000	○ 134.73.210.0000	● 134.73.120.0000	● 134.73.220.0000
4" / 3"	● 134.74.110.0000	● 134.74.210.0000	○ 134.74.120.0000	○ 134.74.220.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

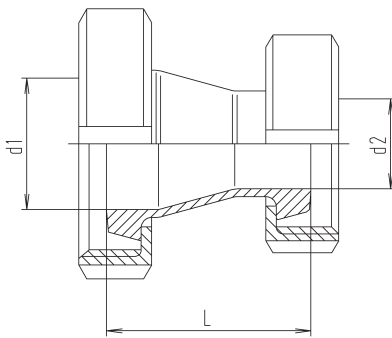
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
32/25	● 135.30.110.0020	● 135.30.210.0020	○ 135.30.120.0020	○ 135.30.220.0020
40/25	● 135.34.110.0020	● 135.34.210.0020	○ 135.34.120.0020	○ 135.34.220.0020
40/32	● 135.35.110.0020	● 135.35.210.0020	● 135.35.120.0020	● 135.35.220.0020
50/32	● 135.40.110.0020	● 135.40.210.0020	○ 135.40.120.0020	○ 135.40.220.0020
50/40	● 135.41.110.0020	● 135.41.210.0020	○ 135.41.120.0020	○ 135.41.220.0020
65/40	○ 135.47.110.0020	○ 135.47.210.0020	○ 135.47.120.0020	○ 135.47.220.0020
65/50	● 135.48.110.0020	● 135.48.210.0020	○ 135.48.120.0020	○ 135.48.220.0020
80/50	● 135.63.110.0020	● 135.63.210.0020	○ 135.63.120.0020	○ 135.63.220.0020
80/65	● 135.64.110.0020	● 135.64.210.0020	○ 135.64.120.0020	○ 135.64.220.0020
100/65	○ 135.73.110.0020	○ 135.73.210.0020	○ 135.73.120.0020	○ 135.73.220.0020
100/80	○ 135.75.110.0020	○ 135.75.210.0020	○ 135.75.120.0020	○ 135.75.220.0020

reducer, concentric, liner/male, DIN (365)



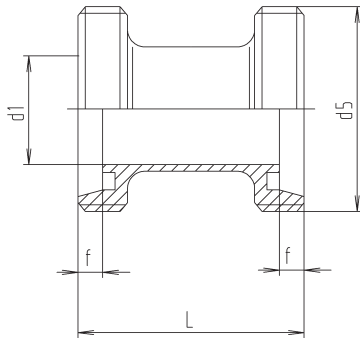
DN	d1	d2	d5	f	l	weight (kg)
32/25	32	26	52x1/6"	7	55	0,430
40/25	38	26	52x1/6"	7	66	0,500
40/32	38	32	58x1/6"	7	58	0,510
50/32	50	32	58x1/6"	7	81	0,650
50/40	50	38	65x1/6"	7	71	0,850
65/40	66	38	65x1/6"	7	101	1,000
65/50	66	50	78x1/6"	7	81	1,050
80/50	81	50	78x1/6"	7	108	1,150
80/65	81	66	95x1/6"	8	84	1,500
100/65	100	66	95x1/6"	8	121	1,920
100/80	100	81	110x1/4"	8	99	1,950

reducer, concentric, liner/liner, DIN (366)



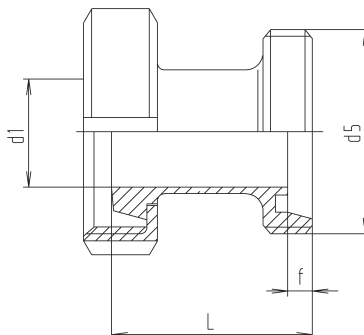
DN	d1	d2	l	weight (kg)
32/25	32	26	48	0,450
40/25	38	26	59	0,670
40/32	38	32	51	0,720
50/32	50	32	74	0,970
50/40	50	38	64	1,030
65/40	66	38	94	1,500
65/50	66	50	74	1,340
80/50	81	50	101	1,650
80/65	81	66	76	1,970
100/65	100	66	113	2,000
100/80	100	81	91	2,420

adapter, male/male, DIN 11851 (370)



DN	d1	d5	f	l	weight (kg)
10	10	28x1/8"	4	42	0,090
15	16	34x1/8"	4	42	0,110
20	20	44x1/6"	6	48	0,210
25	26	52x1/6"	7	58	0,280
32	32	58x1/6"	7	64	0,360
40	38	65x1/6"	7	66	0,460
50	50	78x1/6"	7	70	0,670
65	66	95x1/6"	8	80	1,060
80	81	110x1/4"	8	90	1,410
100	100	130x1/4"	10	108	2,130

adapter, male/liner, DIN 11851 (371)



DN	d1	d5	f	l	weight (kg)
10	10	28x1/8"	4	38	0,130
15	16	34x1/8"	4	38	0,160
20	20	44x1/6"	6	42	0,280
25	26	52x1/6"	7	51	0,390
32	32	58x1/6"	7	57	0,470
40	38	65x1/6"	7	59	0,550
50	50	78x1/6"	7	63	0,770
65	66	95x1/6"	8	72	1,240
80	81	110x1/4"	8	82	1,730
100	100	130x1/4"	10	98	2,400

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
32/25	● 135.30.110.0030	● 135.30.210.0030	○ 135.30.120.0030	○ 135.30.220.0030
40/25	● 135.34.110.0030	● 135.34.210.0030	○ 135.34.120.0030	○ 135.34.220.0030
40/32	● 135.35.110.0030	● 135.35.210.0030	○ 135.35.120.0030	○ 135.35.220.0030
50/32	● 135.40.110.0030	● 135.40.210.0030	○ 135.40.120.0030	○ 135.40.220.0030
50/40	● 135.41.110.0030	● 135.41.210.0030	● 135.41.120.0030	● 135.41.220.0030
65/40	○ 135.47.110.0030	○ 135.47.210.0030	○ 135.47.120.0030	○ 135.47.220.0030
65/50	● 135.48.110.0030	● 135.48.210.0030	○ 135.48.120.0030	○ 135.48.220.0030
80/50	● 135.63.110.0030	● 135.63.210.0030	○ 135.63.120.0030	○ 135.63.220.0030
80/65	● 135.64.110.0030	● 135.64.210.0030	○ 135.64.120.0030	○ 135.64.220.0030
100/65	● 135.73.110.0030	● 135.73.210.0030	○ 135.73.120.0030	○ 135.73.220.0030
100/80	● 135.75.110.0030	● 135.75.210.0030	○ 135.75.120.0030	○ 135.75.220.0030

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
32/25	○ 135.30.110.0040	○ 135.30.210.0040	○ 135.30.120.0040	○ 135.30.220.0040
40/25	○ 135.34.110.0040	○ 135.34.210.0040	○ 135.34.120.0040	○ 135.34.220.0040
40/32	○ 135.35.110.0040	○ 135.35.210.0040	○ 135.35.120.0040	○ 135.35.220.0040
50/32	○ 135.40.110.0040	○ 135.40.210.0040	○ 135.40.120.0040	○ 135.40.220.0040
50/40	● 135.41.110.0040	● 135.41.210.0040	○ 135.41.120.0040	○ 135.41.220.0040
65/40	○ 135.47.110.0040	○ 135.47.210.0040	○ 135.47.120.0040	○ 135.47.220.0040
65/50	● 135.48.110.0040	● 135.48.210.0040	○ 135.48.120.0040	○ 135.48.220.0040
80/50	○ 135.63.110.0040	○ 135.63.210.0040	○ 135.63.120.0040	○ 135.63.220.0040
80/65	○ 135.64.110.0040	○ 135.64.210.0040	○ 135.64.120.0040	○ 135.64.220.0040
100/65	○ 135.73.110.0040	○ 135.73.210.0040	○ 135.73.120.0040	○ 135.73.220.0040
100/80	○ 135.75.110.0040	○ 135.75.210.0040	○ 135.75.120.0040	○ 135.75.220.0040

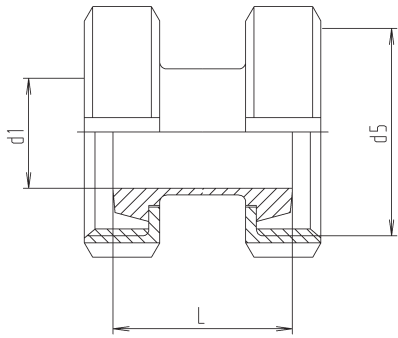
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 199.04.110.0000	○ 199.04.210.0000	○ 199.04.120.0000	○ 199.04.220.0000
15	○ 199.06.110.0000	○ 199.06.210.0000	○ 199.06.120.0000	○ 199.06.220.0000
20	○ 199.07.110.0000	○ 199.07.210.0000	○ 199.07.120.0000	○ 199.07.220.0000
25	○ 199.08.110.0000	○ 199.08.210.0000	○ 199.08.120.0000	○ 199.08.220.0000
32	○ 199.09.110.0000	○ 199.09.210.0000	○ 199.09.120.0000	○ 199.09.220.0000
40	● 199.10.110.0000	● 199.10.210.0000	○ 199.10.120.0000	○ 199.10.220.0000
50	● 199.11.110.0000	● 199.11.210.0000	○ 199.11.120.0000	○ 199.11.220.0000
65	○ 199.12.110.0000	○ 199.12.210.0000	○ 199.12.120.0000	○ 199.12.220.0000
80	○ 199.14.110.0000	○ 199.14.210.0000	○ 199.14.120.0000	○ 199.14.220.0000
100	○ 199.15.110.0000	○ 199.15.210.0000	○ 199.15.120.0000	○ 199.15.220.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 199.04.110.0001	○ 199.04.210.0001	○ 199.04.120.0001	○ 199.04.220.0001
15	○ 199.06.110.0001	○ 199.06.210.0001	○ 199.06.120.0001	○ 199.06.220.0001
20	○ 199.07.110.0001	○ 199.07.210.0001	○ 199.07.120.0001	○ 199.07.220.0001
25	○ 199.08.110.0001	○ 199.08.210.0001	○ 199.08.120.0001	○ 199.08.220.0001
32	○ 199.09.110.0001	○ 199.09.210.0001	○ 199.09.120.0001	○ 199.09.220.0001
40	○ 199.10.110.0001	○ 199.10.210.0001	○ 199.10.120.0001	○ 199.10.220.0001
50	○ 199.11.110.0001	○ 199.11.210.0001	○ 199.11.120.0001	○ 199.11.220.0001
65	○ 199.12.110.0001	○ 199.12.210.0001	○ 199.12.120.0001	○ 199.12.220.0001
80	○ 199.14.110.0001	○ 199.14.210.0001	○ 199.14.120.0001	○ 199.14.220.0001
100	○ 199.15.110.0001	○ 199.15.210.0001	○ 199.15.120.0001	○ 199.15.220.0001

adapter, liner/liner, DIN 11851 (372)



DN	d1	d5	l	weight (kg)
10	10	28x1/8"	34	0,180
15	16	34x1/8"	34	0,220
20	20	44x1/6"	36	0,380
25	26	52x1/6"	44	0,540
32	32	58x1/6"	50	0,660
40	38	65x1/6"	52	0,760
50	50	78x1/6"	56	1,060
65	66	95x1/6"	64	1,720
80	81	110x1/4"	74	2,360
100	100	130x1/4"	88	3,380

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 199.04.110.0002	○ 199.04.210.0002	○ 199.04.120.0002	○ 199.04.220.0002
15	○ 199.06.110.0002	○ 199.06.210.0002	○ 199.06.120.0002	○ 199.06.220.0002
20	○ 199.07.110.0002	○ 199.07.210.0002	○ 199.07.120.0002	○ 199.07.220.0002
25	○ 199.08.110.0002	○ 199.08.210.0002	○ 199.08.120.0002	○ 199.08.220.0002
32	○ 199.09.110.0002	○ 199.09.210.0002	○ 199.09.120.0002	○ 199.09.220.0002
40	● 199.10.110.0002	● 199.10.210.0002	○ 199.10.120.0002	○ 199.10.220.0002
50	● 199.11.110.0002	● 199.11.210.0002	○ 199.11.120.0002	○ 199.11.220.0002
65	○ 199.12.110.0002	○ 199.12.210.0002	○ 199.12.120.0002	○ 199.12.220.0002
80	○ 199.14.110.0002	○ 199.14.210.0002	○ 199.14.120.0002	○ 199.14.220.0002
100	○ 199.15.110.0002	○ 199.15.210.0002	○ 199.15.120.0002	○ 199.15.220.0002

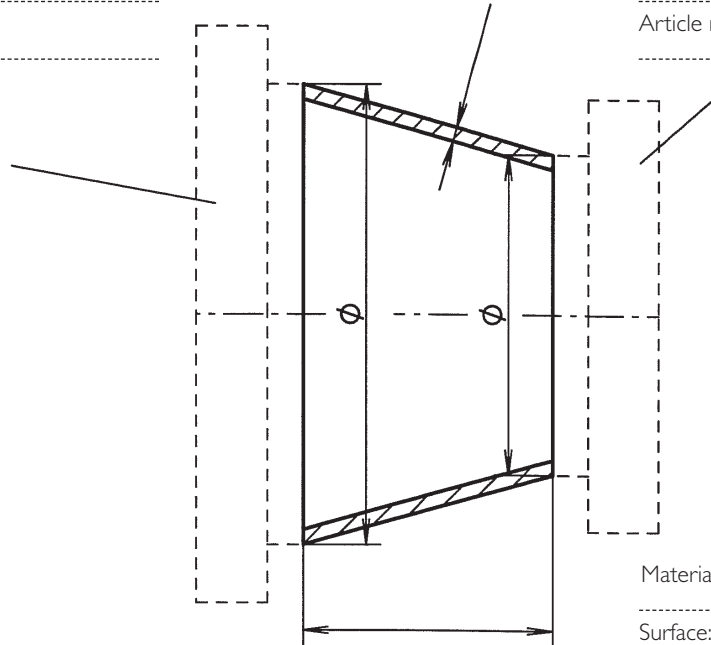
Special assembly of components

Description

Article number:

Description

Article number:



Please fill in the dimensions

Material:

Surface:

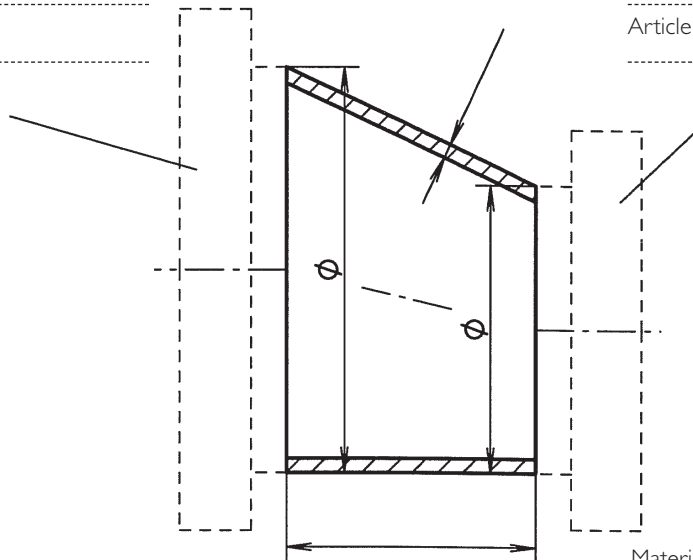
Quantity:

Description

Article number:

Description

Article number:



Please fill in the dimensions

Material:

Surface:

Quantity:

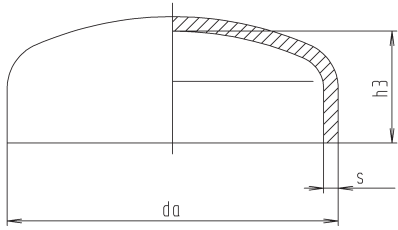
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Please send us the completed form, so that we can submit the corresponding offer.

2.1 Pipes, tubing and fittings

2.1.5 Convex bottoms

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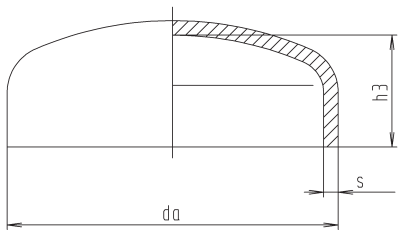
convex bottom, DIN 28011 (for tubing acc. DIN 11850 line 2) (904)



DN	d0	h3	s	weight (kg)
25	23	10	1.5	0,010
32	35	11.5	1.5	0,020
40	41	12.5	1.5	0,020
50	53	15.5	1.5	0,030
65	70	19.5	2	0,080
80	85	22.5	2	0,120
100	104	26.5	2	0,200
125	129	31	2	0,280
150	154	36	2	0,650
200	204	46	2	1,160
250	254	59.5	2	1,600

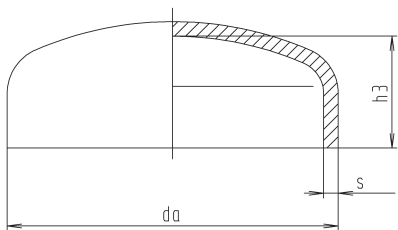
convex bottom, DIN 28011 (for tubing acc. DIN 11850 line 2) (904)

nocapius



DN	d0	h3	s	weight (kg)
25	23	10	1.5	0,010
32	35	11.5	1.5	0,020
40	41	12.5	1.5	0,020
50	53	15.5	1.5	0,030
65	70	19.5	2	0,080
80	85	22.5	2	0,120
100	104	26.5	2	0,200
125	129	31	2	0,280
150	154	36	2	0,650
200	204	46	2	1,160
250	254	59.5	2	1,600

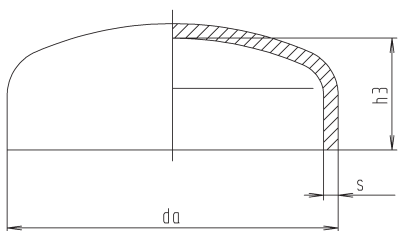
convex bottom, DIN 28011 (for tubing similar DIN 11850) (904)



DN	d0	h3	s	weight (kg)
25	28	10	1.5	0,010
32	34	11.5	1.5	0,020
40	40	12.5	1.5	0,020
50	52	15.5	1.5	0,030

convex bottom, DIN 28011 (for tubing similar DIN 11850) (904)

nocapius



DN	d0	h3	s	weight (kg)
25	28	10	1.5	0,010
32	34	11.5	1.5	0,020
40	40	12.5	1.5	0,020
50	52	15.5	1.5	0,030

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 181.08.110.0014	○ 181.08.210.0014	● 181.08.120.0014	○ 181.08.220.0014
32	○ 181.09.110.0014	○ 181.09.210.0014	○ 181.09.120.0014	○ 181.09.220.0014
40	○ 181.10.110.0014	○ 181.10.210.0014	○ 181.10.120.0014	○ 181.10.220.0014
50	○ 181.11.110.0014	○ 181.11.210.0014	○ 181.11.120.0014	○ 181.11.220.0014
65	● 181.12.110.0003	● 181.12.210.0003	● 181.12.120.0003	● 181.12.220.0003
80	● 181.14.110.0003	● 181.14.210.0003	● 181.14.120.0003	● 181.14.220.0003
100	● 181.15.110.0003	● 181.15.210.0003	● 181.15.120.0003	● 181.15.220.0003
125	● 181.16.110.0003	● 181.16.210.0003	● 181.16.120.0003	● 181.16.220.0003
150	● 181.17.110.0003	● 181.17.210.0003	● 181.17.120.0003	● 181.17.220.0003
200	● 181.18.110.0003	● 181.18.210.0003	● 181.18.120.0003	● 181.18.220.0003
250	● 181.19.110.0003	● 181.19.210.0003	● 181.19.120.0003	● 181.19.220.0003

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
25	○ 181.08.120.0314	○ 181.08.220.0314
32	○ 181.09.120.0314	○ 181.09.220.0314
40	○ 181.10.120.0314	○ 181.10.220.0314
50	○ 181.11.120.0314	○ 181.11.220.0314
65	○ 181.12.120.0303	○ 181.12.220.0303
80	○ 181.14.120.0303	○ 181.14.220.0303
100	○ 181.15.120.0303	○ 181.15.220.0303
125	○ 181.16.120.0303	○ 181.16.220.0303
150	○ 181.17.120.0303	○ 181.17.220.0303
200	○ 181.18.120.0303	○ 181.18.220.0303
250	○ 181.19.120.0303	○ 181.19.220.0303

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 181.08.110.0003	● 181.08.210.0003	● 181.08.120.0003	● 181.08.220.0003
32	● 181.09.110.0003	● 181.09.210.0003	● 181.09.120.0003	● 181.09.220.0003
40	● 181.10.110.0003	● 181.10.210.0003	● 181.10.120.0003	● 181.10.220.0003
50	● 181.11.110.0003	● 181.11.210.0003	● 181.11.120.0003	● 181.11.220.0003

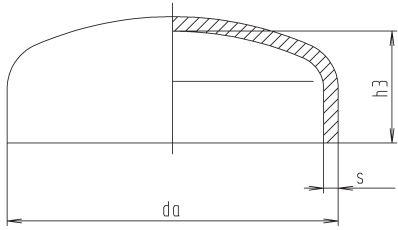
from DN 65 series 2

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
25	○ 181.08.120.0303	○ 181.08.220.0303
32	○ 181.09.120.0303	○ 181.09.220.0303
40	○ 181.10.120.0303	○ 181.10.220.0303
50	○ 181.11.120.0303	○ 181.11.220.0303

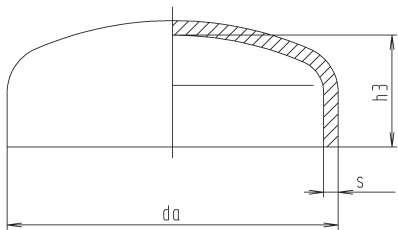
from DN 65 series 2

convex bottom, DIN 28011 inch (904Z)



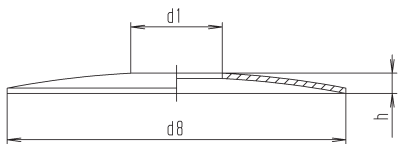
DN	d0	h3	s	weight (kg)
1"	25.4	14	1.5	0,010
1½"	38.1	18	1.5	0,020
2"	50.8	13.5	1.5	0,030
2½"	63.5	16.5	1.5	0,080
3"	76.1	18	2	0,120
4"	101.6	23	2	0,200

convex bottom, DIN 28011 ISO (904I)



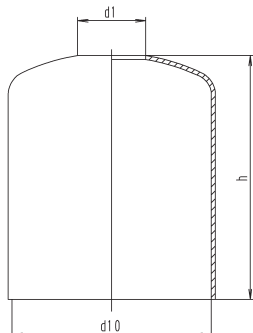
DN	d0	h3	s	weight (kg)
25	33.7	18	2	0,031
32	42.4	20	2	0,048
40	48.3	20	2	0,058
50	60.3	25	2	0,087
65	76.1	26	2	0,130
80	88.9	38	2	0,210
100	114.3	28.5	2	0,320
125	139.7	47	2	0,440
150	168.3	40	2	0,750
200	219.1	62	2	1,350

rosette (for tubing acc. DIN 11850 line I) (901)



DN	d1	d8	h	weight (kg)
15	18.5	128	8	0,120
20	22.5	128	8	0,120
25	28.5	128	8	0,110
32	34.5	128	8	0,110
40	40.5	128	8	0,100
50	52.5	128	6	0,100
65	70.5	128	6	0,130
80	85.5	186	10	0,150
100	104.5	186	10	0,190

cover for tubing, high (for tubing acc. DIN 11850 line I) (902)



DN	d1	d10	h	weight (kg)
25	28.2	81	140	0,640
32	34.2	100	140	0,660
40	40.2	100	140	0,650
50	52.2	125	140	0,630
65	70.3	125	140	0,810
80	85.3	125	145	1,140
100	104.3	150	200	2,120
125	129.5	200	250	2,600
150	154.5	200	246	2,950

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 181.08.110.0004	○ 181.08.210.0004	○ 181.08.120.0004	○ 181.08.220.0004
1½"	○ 181.10.110.0004	○ 181.10.210.0004	○ 181.10.120.0004	○ 181.10.220.0004
2"	● 181.11.110.0004	● 181.11.210.0004	● 181.11.120.0004	● 181.11.220.0004
2½"	○ 181.12.110.0004	○ 181.12.210.0004	● 181.12.120.0004	● 181.12.220.0004
3"	● 181.13.110.0004	● 181.13.210.0004	● 181.13.120.0004	● 181.13.220.0004
4"	● 181.15.110.0004	● 181.15.210.0004	● 181.15.120.0004	● 181.15.220.0004

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 181.08.110.0009	○ 181.08.210.0009	○ 181.08.120.0009	○ 181.08.220.0009
32	○ 181.09.110.0009	○ 181.09.210.0009	○ 181.09.120.0009	○ 181.09.220.0009
40	○ 181.10.110.0009	○ 181.10.210.0009	○ 181.10.120.0009	○ 181.10.220.0009
50	○ 181.11.110.0009	○ 181.11.210.0009	○ 181.11.120.0009	○ 181.11.220.0009
65	○ 181.12.110.0009	○ 181.12.210.0009	○ 181.12.120.0009	○ 181.12.220.0009
80	○ 181.14.110.0009	○ 181.14.210.0009	○ 181.14.120.0009	○ 181.14.220.0009
100	○ 181.15.110.0009	○ 181.15.210.0009	○ 181.15.120.0009	○ 181.15.220.0009
125	○ 181.16.110.0009	○ 181.16.210.0009	○ 181.16.120.0009	○ 181.16.220.0009
150	○ 181.17.110.0009	○ 181.17.210.0009	○ 181.17.120.0009	○ 181.17.220.0009
200	○ 181.18.110.0009	○ 181.18.210.0009	○ 181.18.120.0009	○ 181.18.220.0009

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number
15	○ 181.06.110.0000	○ 181.06.210.0000
20	○ 181.07.110.0000	○ 181.07.210.0000
25	● 181.08.110.0000	● 181.08.210.0000
32	● 181.09.110.0000	● 181.09.210.0000
40	● 181.10.110.0000	● 181.10.210.0000
50	● 181.11.110.0000	● 181.11.210.0000
65	● 181.12.110.0000	● 181.12.210.0000
80	● 181.14.110.0000	● 181.14.210.0000
100	● 181.15.110.0000	● 181.15.210.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number
25	● 181.08.110.0001	● 181.08.210.0001
32	● 181.09.110.0001	● 181.09.210.0001
40	● 181.10.110.0001	○ 181.10.210.0001
50	● 181.11.110.0001	○ 181.11.210.0001
65	● 181.12.110.0001	● 181.12.210.0001
80	● 181.14.110.0001	○ 181.14.210.0001
100	● 181.15.110.0001	● 181.15.210.0001
125	○ 181.16.110.0001	○ 181.16.210.0001
150	○ 181.17.110.0001	○ 181.17.210.0001

2.2 Piping connections

2.2.1 Unions

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2.2 Piping connections

2.2.1 Unions

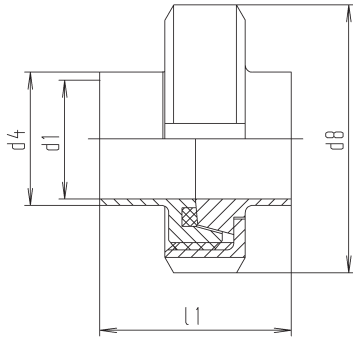
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2.2 Piping connections

2.2.1 Unions

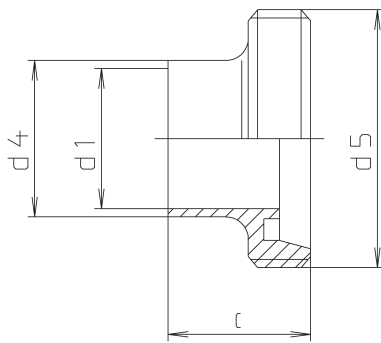
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welding union DIN 11851-S (for tubing acc. DIN 11850 line 2) (212O)



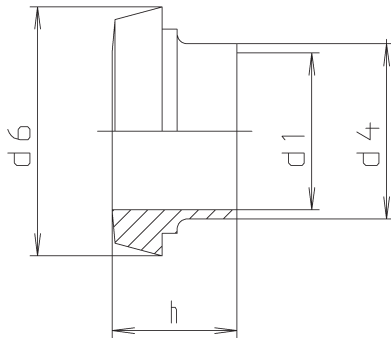
DN	d1	d4	d8	ll	weight (kg)
10	10	13	38	34	0,130
15	16	19	44	34	0,160
20	20	23	54	36	0,280
25	26	29	63	45	0,380
32	32	35	70	51	0,450
40	38	41	78	53	0,530
50	50	53	92	57	0,730
65	66	70	112	65	1,210
80	81	85	127	75	1,660
100	100	104	148	89	2,240
125	125	129	178	70	3,070
150	150	154	210	76	4,350

male part DIN 11851-SC



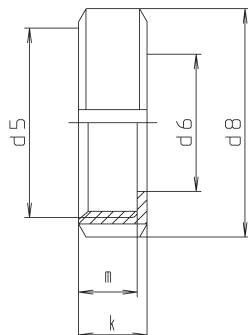
DN	c	d1	d4	d5	weight (kg)
10	21	10	13	28x1/8"	0,040
15	21	16	19	34x1/8"	0,050
20	24	20	23	44x1/6"	0,090
25	29	26	29	52x1/6"	0,120
32	32	32	35	58x1/6"	0,140
40	33	38	41	65x1/6"	0,160
50	35	50	53	78x1/6"	0,220
65	40	66	70	95x1/6"	0,380
80	45	81	85	110x1/4"	0,520
100	54	100	104	130x1/4"	0,620
125	46	125	129	160x1/4"	0,920
150	50	150	154	190x1/4"	1,550

welding liner DIN 11851- SD (acc. DIN 11850 line 2) (214O)



DN	d1	d4	d6	h	weight (kg)
10	10	13	22.5	17	0,010
15	16	19	28.5	17	0,020
20	20	23	36.5	18	0,040
25	26	29	44	22	0,080
32	32	35	50	25	0,090
40	38	41	56	26	0,120
50	50	53	68.5	28	0,170
65	66	70	86	32	0,280
80	81	85	100	37	0,340
100	100	104	121	44	0,540
125	125	129	150	34	0,700
150	150	154	176	37	0,920

nut DIN 11851-F (210)



DN	d5	d6	d8	k	m	weight (kg)
10	28x1/8"	19	38	18	15	0,070
15	34x1/8"	25	44	18	15	0,080
20	44x1/6"	31	54	20	17	0,130
25	52x1/6"	36	63	21	18	0,180
32	58x1/6"	42	70	21	18	0,220
40	65x1/6"	49	78	21	18	0,250
50	78x1/6"	62	92	22	19	0,340
65	95x1/6"	80	112	25	21	0,550
75	104x1/6"	88	119	25	21	0,650
80	110x1/4"	94	127	29	25	0,800
100	130x1/4"	115	148	31	26	1,080
125	160x1/4"	138	178	35	30	1,450
150	190x1/4"	164	210	40	34	1,880

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 127.04.11N.0005	○ 127.04.21N.0005	● 127.04.12N.0005	○ 127.04.22N.0005
15	○ 127.06.11N.0005	○ 127.06.21N.0005	● 127.06.12N.0005	○ 127.06.22N.0005
20	● 127.07.11N.0005	○ 127.07.21N.0005	● 127.07.12N.0005	○ 127.07.22N.0005
25	● 127.08.11N.0005	● 127.08.21N.0005	● 127.08.12N.0005	● 127.08.22N.0005
32	● 127.09.11N.0005	● 127.09.21N.0005	● 127.09.12N.0005	● 127.09.22N.0005
40	● 127.10.11N.0005	○ 127.10.21N.0005	● 127.10.12N.0005	○ 127.10.22N.0005
50	● 127.11.11N.0005	● 127.11.21N.0005	● 127.11.12N.0005	● 127.11.22N.0005
65	● 127.12.11N.0005	● 127.12.21N.0005	● 127.12.12N.0005	● 127.12.22N.0005
80	● 127.14.11N.0005	● 127.14.21N.0005	● 127.14.12N.0005	● 127.14.22N.0005
100	● 127.15.11N.0005	● 127.15.21N.0005	● 127.15.12N.0005	● 127.15.22N.0005
125	● 127.16.11N.0005	● 127.16.21N.0005	● 127.16.12N.0005	● 127.16.22N.0005
150	○ 127.17.11N.0005	○ 127.17.21N.0005	● 127.17.12N.0005	● 127.17.22N.0005

standard gasket NBR considered

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 121.04.110.0005	○ 121.04.210.0005	● 121.04.120.0005	○ 121.04.220.0005
15	○ 121.06.110.0005	○ 121.06.210.0005	● 121.06.120.0005	○ 121.06.220.0005
20	● 121.07.110.0005	● 121.07.210.0005	● 121.07.120.0005	○ 121.07.220.0005
25	● 121.08.110.0005	● 121.08.210.0005	● 121.08.120.0005	● 121.08.220.0005
32	● 121.09.110.0005	● 121.09.210.0005	● 121.09.120.0005	● 121.09.220.0005
40	● 121.10.110.0005	● 121.10.210.0005	● 121.10.120.0005	● 121.10.220.0005
50	● 121.11.110.0005	● 121.11.210.0005	● 121.11.120.0005	● 121.11.220.0005
65	● 121.12.110.0005	● 121.12.210.0005	● 121.12.120.0005	● 121.12.220.0005
80	● 121.14.110.0005	● 121.14.210.0005	● 121.14.120.0005	● 121.14.220.0005
100	● 121.15.110.0005	● 121.15.210.0005	● 121.15.120.0005	● 121.15.220.0005
125	● 121.16.110.0005	● 121.16.210.0005	● 121.16.120.0005	● 121.16.220.0005
150	● 121.17.110.0005	● 121.17.210.0005	● 121.17.120.0005	● 121.17.220.0005

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

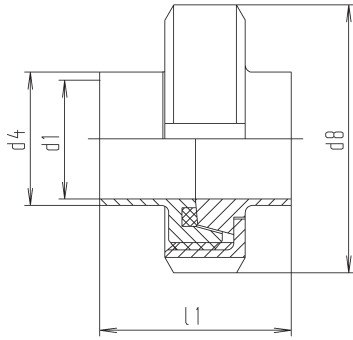
DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 122.04.110.0005	○ 122.04.210.0005	● 122.04.120.0005	● 122.04.220.0005
15	○ 122.06.110.0005	○ 122.06.210.0005	● 122.06.120.0005	● 122.06.220.0005
20	● 122.07.110.0005	● 122.07.210.0005	● 122.07.120.0005	● 122.07.220.0005
25	● 122.08.110.0005	● 122.08.210.0005	● 122.08.120.0005	● 122.08.220.0005
32	● 122.09.110.0005	● 122.09.210.0005	● 122.09.120.0005	● 122.09.220.0005
40	● 122.10.110.0005	● 122.10.210.0005	● 122.10.120.0005	● 122.10.220.0005
50	● 122.11.110.0005	● 122.11.210.0005	● 122.11.120.0005	● 122.11.220.0005
65	● 122.12.110.0005	● 122.12.210.0005	● 122.12.120.0005	● 122.12.220.0005
80	● 122.14.110.0005	● 122.14.210.0005	● 122.14.120.0005	● 122.14.220.0005
100	● 122.15.110.0005	● 122.15.210.0005	● 122.15.120.0005	● 122.15.220.0005
125	● 122.16.110.0005	● 122.16.210.0005	● 122.16.120.0005	● 122.16.220.0005
150	○ 122.17.110.0005	○ 122.17.210.0005	● 122.17.120.0005	● 122.17.220.0005

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 124.04.110.0000	● 124.04.210.0000	● 124.04.120.0000	● 124.04.220.0000
15	● 124.06.110.0000	● 124.06.210.0000	● 124.06.120.0000	● 124.06.220.0000
20	● 124.07.110.0000	● 124.07.210.0000	● 124.07.120.0000	● 124.07.220.0000
25	● 124.08.110.0000	● 124.08.210.0000	● 124.08.120.0000	● 124.08.220.0000
32	● 124.09.110.0000	● 124.09.210.0000	● 124.09.120.0000	● 124.09.220.0000
40	● 124.10.110.0000	● 124.10.210.0000	● 124.10.120.0000	● 124.10.220.0000
50	● 124.11.110.0000	● 124.11.210.0000	● 124.11.120.0000	● 124.11.220.0000
65	● 124.12.110.0000	● 124.12.210.0000	● 124.12.120.0000	● 124.12.220.0000
75	● 124.13.110.0000	● 124.13.210.0000	● 124.13.120.0000	● 124.13.220.0000
80	● 124.14.110.0000	● 124.14.210.0000	● 124.14.120.0000	● 124.14.220.0000
100	● 124.15.110.0000	● 124.15.210.0000	● 124.15.120.0000	● 124.15.220.0000
125	● 124.16.110.0000	● 124.16.210.0000	● 124.16.120.0000	● 124.16.220.0000
150	● 124.17.110.0000	● 124.17.210.0000	○ 124.17.120.0000	○ 124.17.220.0000

welding union DIN 11851 (for tubing acc. DIN 11850 line 2) (212O)

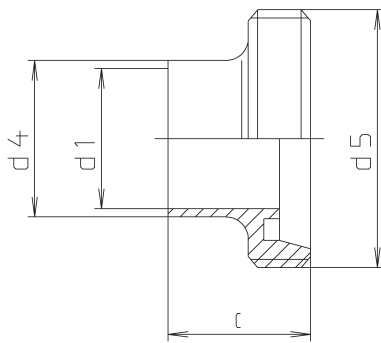
nocapius



DN	d1	d4	d8	l1	weight (kg)
10	10	13	38	34	0,130
15	16	19	44	34	0,160
20	20	23	54	36	0,280
25	26	29	63	45	0,380
32	32	35	70	51	0,450
40	38	41	78	53	0,530
50	50	53	92	57	0,730
65	66	70	112	65	1,210
80	81	85	127	75	1,660
100	100	104	148	89	2,240
125	125	129	178	70	3,070
150	150	154	210	76	4,350

male part DIN -SC 11851-SC

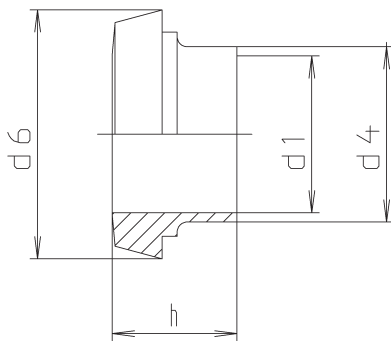
nocapius



DN	c	d1	d4	d5	weight (kg)
10	21	10	13	28x1/8"	0,040
15	21	16	19	34x1/8"	0,050
20	24	20	23	44x1/6"	0,090
25	29	26	29	52x1/6"	0,120
32	32	32	35	58x1/6"	0,140
40	33	38	41	65x1/6"	0,160
50	35	50	53	78x1/6"	0,220
65	40	66	70	95x1/6"	0,380
80	45	81	85	110x1/4"	0,520
100	54	100	104	130x1/4"	0,620
125	46	125	129	160x1/4"	0,920
150	50	150	154	190x1/4"	1,550

welding liner DIN 11851-SD (acc. DIN 11850 line 2) (214O)

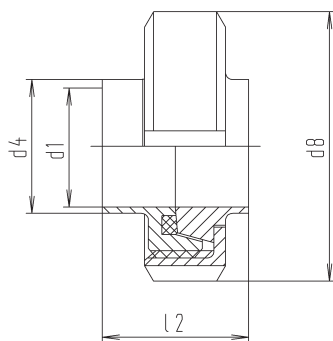
nocapius



DN	d1	d4	d6	h	weight (kg)
10	10	13	22.5	17	0,010
15	16	19	28.5	17	0,020
20	20	23	36.5	18	0,040
25	26	29	44	22	0,080
32	32	35	50	25	0,090
40	38	41	56	26	0,120
50	50	53	68.5	28	0,170
65	66	70	86	32	0,280
80	81	85	100	37	0,340
100	100	104	121	44	0,540
125	125	129	150	34	0,700
150	150	154	176	37	0,920

union, short DIN 11851-SK (for tubing acc. DIN 11850 line 2) (212K)

nocapius



DN	d1	d4	d8	l2	weight (kg)
10	10	13	38	26	0,130
15	16	19	44	26	0,150
20	20	23	54	26	0,250
25	26	29	63	30	0,360
32	32	35	70	30	0,440
40	38	41	78	30	0,500
50	50	53	92	32	0,680
65	66	70	112	34	1,030
80	81	85	127	34	1,460
100	100	104	148	40	2,040

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
10	○ 127.04.12N.0305	○ 127.04.22N.0305
15	○ 127.06.12N.0305	○ 127.06.22N.0305
20	○ 127.07.12N.0305	○ 127.07.22N.0305
25	○ 127.08.12N.0305	○ 127.08.22N.0305
32	○ 127.09.12N.0305	○ 127.09.22N.0305
40	○ 127.10.12N.0305	○ 127.10.22N.0305
50	○ 127.11.12N.0305	○ 127.11.22N.0305
65	○ 127.12.12N.0305	○ 127.12.22N.0305
80	○ 127.14.12N.0305	○ 127.14.22N.0305
100	○ 127.15.12N.0305	○ 127.15.22N.0305
125	○ 127.16.12N.0305	○ 127.16.22N.0305
150	○ 127.17.12N.0305	○ 127.17.22N.0305

standard gasket NBR considered

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
10	○ 121.04.120.0305	○ 121.04.220.0305
15	○ 121.06.120.0305	○ 121.06.220.0305
20	○ 121.07.120.0305	○ 121.07.220.0305
25	○ 121.08.120.0305	○ 121.08.220.0305
32	○ 121.09.120.0305	○ 121.09.220.0305
40	○ 121.10.120.0305	○ 121.10.220.0305
50	○ 121.11.120.0305	○ 121.11.220.0305
65	○ 121.12.120.0305	○ 121.12.220.0305
80	○ 121.14.120.0305	○ 121.14.220.0305
100	○ 121.15.120.0305	○ 121.15.220.0305
125	○ 121.16.120.0305	○ 121.16.220.0305
150	○ 121.17.120.0305	○ 121.17.220.0305

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

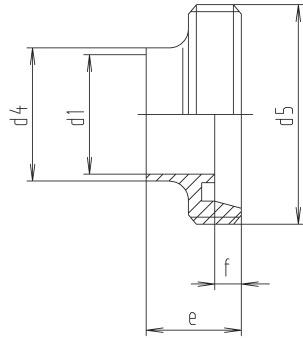
DN	316 L polished Ident number	316 L matt Ident number
10	○ 122.04.120.0305	○ 122.04.220.0305
15	○ 122.06.120.0305	○ 122.06.220.0305
20	○ 122.07.120.0305	○ 122.07.220.0305
25	○ 122.08.120.0305	○ 122.08.220.0305
32	○ 122.09.120.0305	○ 122.09.220.0305
40	○ 122.10.120.0305	○ 122.10.220.0305
50	○ 122.11.120.0305	○ 122.11.220.0305
65	○ 122.12.120.0305	○ 122.12.220.0305
80	○ 122.14.120.0305	○ 122.14.220.0305
100	○ 122.15.120.0305	○ 122.15.220.0305
125	○ 122.16.120.0305	○ 122.16.220.0305
150	○ 122.17.120.0305	○ 122.17.220.0305

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 127.04.11N.0224	○ 127.04.21N.0224	○ 127.04.12N.0224	○ 127.04.22N.0224
15	○ 127.06.11N.0224	○ 127.06.21N.0224	○ 127.06.12N.0224	○ 127.06.22N.0224
20	○ 127.07.11N.0224	○ 127.07.21N.0224	○ 127.07.12N.0224	○ 127.07.22N.0224
25	● 127.08.11N.0224	● 127.08.21N.0224	● 127.08.12N.0224	● 127.08.22N.0224
32	● 127.09.11N.0224	● 127.09.21N.0224	● 127.09.12N.0224	● 127.09.22N.0224
40	● 127.10.11N.0224	● 127.10.21N.0224	● 127.10.12N.0224	● 127.10.22N.0224
50	● 127.11.11N.0224	● 127.11.21N.0224	● 127.11.12N.0224	● 127.11.22N.0224
65	● 127.12.11N.0224	● 127.12.21N.0224	● 127.12.12N.0224	● 127.12.22N.0224
80	● 127.14.11N.0224	● 127.14.21N.0224	● 127.14.12N.0224	● 127.14.22N.0224
100	● 127.15.11N.0224	● 127.15.21N.0224	● 127.15.12N.0224	● 127.15.22N.0224

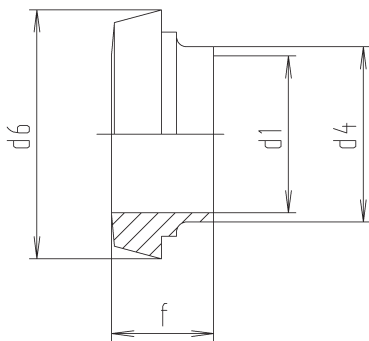
standard gasket NBR considered

welding male, short, DIN 11851-SKC (for tubing DIN 11850 line 2) (213K)



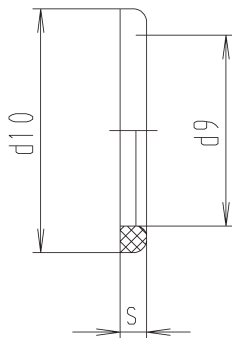
DN	d1	d4	d5	e	f	weight (kg)
10	10	13	28x1/8"	17	4	0,040
15	16	19	34x1/8"	17	4	0,050
20	20	23	44x1/6"	19	6	0,080
25	26	29	52x1/6"	22	7	0,110
32	32	35	58x1/6"	22	7	0,130
40	38	41	65x1/6"	22	7	0,150
50	50	53	78x1/6"	23	7	0,190
65	66	70	95x1/6"	25	8	0,280
80	81	85	110x1/4"	25	8	0,420
100	100	104	130x1/4"	30	10	0,570

welding liner short DIN 11851-SKD (acc. DIN 11850 line 2) (206K)



DN	d1	d4	d6	f	weight (kg)
10	10	13	22.5	13	0,020
15	16	19	28.5	13	0,025
20	20	23	36.5	13	0,040
25	26	29	44	15	0,070
32	32	35	50	15	0,090
40	38	41	56	15	0,100
50	50	53	68.5	16	0,120
65	66	70	86	17	0,200
80	81	85	100	17	0,240
100	100	104	121	20	0,390

gasket DIN 11851-G (211)



DN	d9	d10	s	weight (kg)
10	12	20	4.5	0,001
15	18	26	4.5	0,002
20	23	33	4.5	0,003
25	30	40	5	0,003
32	36	46	5	0,004
40	42	52	5	0,005
50	54	64	5	0,006
65	71	81	5	0,007
75/3"	78	88	5	0,009
80	85	95	5	0,009
100	104	114	6	0,013
125	130	142	7	0,022
150	155	167	7	0,027

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 221.04.110.0024	○ 221.04.210.0024	○ 221.04.120.0024	○ 221.04.220.0024
15	○ 221.06.110.0024	○ 221.06.210.0024	○ 221.06.120.0024	○ 221.06.220.0024
20	○ 221.07.110.0024	○ 221.07.210.0024	○ 221.07.120.0024	○ 221.07.220.0024
25	● 221.08.110.0024	● 221.08.210.0024	● 221.08.120.0024	● 221.08.220.0024
32	● 221.09.110.0024	● 221.09.210.0024	● 221.09.120.0024	● 221.09.220.0024
40	● 221.10.110.0024	● 221.10.210.0024	● 221.10.120.0024	● 221.10.220.0024
50	● 221.11.110.0024	● 221.11.210.0024	● 221.11.120.0024	● 221.11.220.0024
65	● 221.12.110.0024	● 221.12.210.0024	● 221.12.120.0024	● 221.12.220.0024
80	● 221.14.110.0024	● 221.14.210.0024	● 221.14.120.0024	● 221.14.220.0024
100	● 221.15.110.0024	● 221.15.210.0024	● 221.15.120.0024	● 221.15.220.0024

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 222.04.110.0024	○ 222.04.210.0024	○ 222.04.120.0024	○ 222.04.220.0024
15	○ 222.06.110.0024	○ 222.06.210.0024	○ 222.06.120.0024	○ 222.06.220.0024
20	○ 222.07.110.0024	○ 222.07.210.0024	○ 222.07.120.0024	○ 222.07.220.0024
25	● 222.08.110.0024	● 222.08.210.0024	● 222.08.120.0024	● 222.08.220.0024
32	● 222.09.110.0024	● 222.09.210.0024	● 222.09.120.0024	● 222.09.220.0024
40	● 222.10.110.0024	● 222.10.210.0024	● 222.10.120.0024	● 222.10.220.0024
50	● 222.11.110.0024	● 222.11.210.0024	● 222.11.120.0024	● 222.11.220.0024
65	● 222.12.110.0024	● 222.12.210.0024	● 222.12.120.0024	● 222.12.220.0024
80	● 222.14.110.0024	● 222.14.210.0024	● 222.14.120.0024	● 222.14.220.0024
100	● 222.15.110.0024	● 222.15.210.0024	● 222.15.120.0024	● 222.15.220.0024

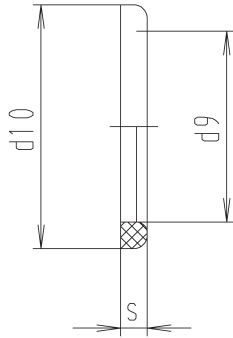
Rohr nach DIN 11850 Reihe 2

DN	EPDM Ident number	HNBR Ident number	NBR Ident number	MVQ transparent Ident number
10	● 822.04.6E0.0000	○ 822.04.6HN.0000	● 822.04.6N0.0000	● 822.04.6S0.0000
15	● 822.06.6E0.0000	○ 822.06.6HN.0000	● 822.06.6N0.0000	● 822.06.6S0.0000
20	● 822.07.6E0.0000	○ 822.07.6HN.0000	● 822.07.6N0.0000	● 822.07.6S0.0000
25	● 822.08.6E0.0000	● 822.08.6HN.0000	● 822.08.6N0.0000	● 822.08.6S0.0000
32	● 822.09.6E0.0000	● 822.09.6HN.0000	● 822.09.6N0.0000	● 822.09.6S0.0000
40	● 822.10.6E0.0000	● 822.10.6HN.0000	● 822.10.6N0.0000	● 822.10.6S0.0000
50	● 822.11.6E0.0000	● 822.11.6HN.0000	● 822.11.6N0.0000	● 822.11.6S0.0000
65	● 822.12.6E0.0000	● 822.12.6HN.0000	● 822.12.6N0.0000	● 822.12.6S0.0000
75/3"	● 822.13.6E0.0000	○ 822.13.6HN.0000	● 822.13.6N0.0000	● 822.13.6S0.0000
80	● 822.14.6E0.0000	● 822.14.6HN.0000	● 822.14.6N0.0000	● 822.14.6S0.0000
100	● 822.15.6E0.0000	● 822.15.6HN.0000	● 822.15.6N0.0000	● 822.15.6S0.0000
125	● 822.16.6E0.0000	● 822.16.6HN.0000	● 822.16.6N0.0000	● 822.16.6S0.0000
150	● 822.17.6E0.0000	● 822.17.6HN.0000	● 822.17.6N0.0000	● 822.17.6S0.0000

Rohr nach DIN 11850 Reihe 2

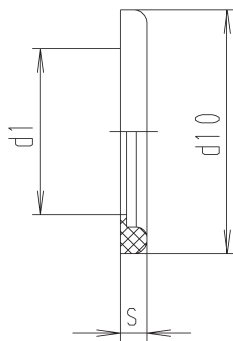
DN	PTFE Ident number	FPM Ident number
10	● 822.04.6T0.0000	● 822.04.6V0.0000
15	● 822.06.6T0.0000	● 822.06.6V0.0000
20	● 822.07.6T0.0000	● 822.07.6V0.0000
25	● 822.08.6T0.0000	● 822.08.6V0.0000
32	● 822.09.6T0.0000	● 822.09.6V0.0000
40	● 822.10.6T0.0000	● 822.10.6V0.0000
50	● 822.11.6T0.0000	● 822.11.6V0.0000
65	● 822.12.6T0.0000	● 822.12.6V0.0000
75/3"	● 822.13.6T0.0000	● 822.13.6V0.0000
80	● 822.14.6T0.0000	● 822.14.6V0.0000
100	● 822.15.6T0.0000	● 822.15.6V0.0000
125	● 822.16.6T0.0000	● 822.16.6V0.0000
150	● 822.17.6T0.0000	● 822.17.6V0.0000

gasket 8 mm, DIN 11851-G (211)



DN	d9	d10	s	weight (kg)
25	30	40	8	0,006
32	36	46	8	0,007
40	42	52	8	0,008
50	54	64	8	0,009
65	71	81	8	0,012
80	85	95	8	0,014
100	104	114	8	0,017

gasket lipped for DIN 11851 (211I)



DN	d1	d10	s	weight (kg)
10	10	20	4.5	0,001
15	16	26	4.5	0,002
20	20	33	4.5	0,003
25	26	40	5	0,004
32	32	46	5	0,005
40	38	52	5	0,006
50	50	64	5	0,008
65	66	81	5	0,010
80	81	95	5	0,011
100	100	114	6	0,014
125	125	142	7	0,025
150	150	167	7	0,030

centring ring, with special gasket for union DIN 11851

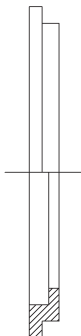
nocapius



DN	weight (kg)
25	-
32	-
40	-
50	-
65	-
75/3"	-
80	-
100	-

gasket for centring ring for union DIN 11851

nocapius



DN	weight (kg)
25	-
32	-
40	-
50	-
65	-
80	-
100	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM Ident number	NBR Ident number	MVQ Ident number	FPM Ident number
25	● 822.08.6E0.0001	● 822.08.6N0.0001	○ 822.08.6S0.0001	○ 822.08.6V0.0001
32	● 822.09.6E0.0001	● 822.09.6N0.0001	○ 822.09.6S0.0001	○ 822.09.6V0.0001
40	● 822.10.6E0.0001	● 822.10.6N0.0001	○ 822.10.6S0.0001	○ 822.10.6V0.0001
50	● 822.11.6E0.0001	● 822.11.6N0.0001	○ 822.11.6S0.0001	● 822.11.6V0.0001
65	● 822.12.6E0.0001	● 822.12.6N0.0001	○ 822.12.6S0.0001	● 822.12.6V0.0001
80	● 822.14.6E0.0001	● 822.14.6N0.0001	○ 822.14.6S0.0001	● 822.14.6V0.0001
100	● 822.15.6E0.0001	● 822.15.6N0.0001	○ 822.15.6S0.0001	● 822.15.6V0.0001

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM Ident number	NBR Ident number	MVQ Ident number	FPM Ident number
10	● 822.04.6E0.0002	● 822.04.6N0.0002	○ 822.04.6S0.0002	○ 822.04.6V0.0002
15	● 822.06.6E0.0002	● 822.06.6N0.0002	● 822.06.6S0.0002	○ 822.06.6V0.0002
20	● 822.07.6E0.0002	● 822.07.6N0.0002	○ 822.07.6S0.0002	● 822.07.6V0.0002
25	● 822.08.6E0.0002	● 822.08.6N0.0002	○ 822.08.6S0.0002	○ 822.08.6V0.0002
32	● 822.09.6E0.0002	● 822.09.6N0.0002	○ 822.09.6S0.0002	○ 822.09.6V0.0002
40	● 822.10.6E0.0002	● 822.10.6N0.0002	○ 822.10.6S0.0002	● 822.10.6V0.0002
50	● 822.11.6E0.0002	● 822.11.6N0.0002	○ 822.11.6S0.0002	○ 822.11.6V0.0002
65	● 822.12.6E0.0002	● 822.12.6N0.0002	● 822.12.6S0.0002	○ 822.12.6V0.0002
80	● 822.14.6E0.0002	● 822.14.6N0.0002	○ 822.14.6S0.0002	○ 822.14.6V0.0002
100	● 822.15.6E0.0002	● 822.15.6N0.0002	● 822.15.6S0.0002	● 822.15.6V0.0002
125	○ 822.16.6E0.0002	○ 822.16.6N0.0002	○ 822.16.6S0.0002	○ 822.16.6V0.0002
150	● 822.17.6E0.0002	○ 822.17.6N0.0002	○ 822.17.6S0.0002	○ 822.17.6V0.0002

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

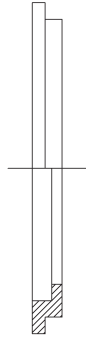
DN	316 L polished Ident number
25	○ 129.08.120.0000
32	○ 129.09.120.0000
40	○ 129.10.120.0000
50	○ 129.11.120.0000
65	○ 129.12.120.0000
75/3"	○ 129.13.120.0000
80	○ 129.14.120.0000
100	○ 129.15.120.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM Ident number	NBR Ident number	MVQ Ident number	FPM Ident number
25	○ 822.08.6E0.0003	○ 822.08.6N0.0003	○ 822.08.6S0.0003	○ 822.08.6V0.0003
32	○ 822.09.6E0.0003	○ 822.09.6N0.0003	○ 822.09.6S0.0003	○ 822.09.6V0.0003
40	○ 822.10.6E0.0003	○ 822.10.6N0.0003	○ 822.10.6S0.0003	○ 822.10.6V0.0003
50	○ 822.11.6E0.0003	○ 822.11.6N0.0003	○ 822.11.6S0.0003	○ 822.11.6V0.0003
65	○ 822.12.6E0.0003	○ 822.12.6N0.0003	○ 822.12.6S0.0003	○ 822.12.6V0.0003
80	○ 822.14.6E0.0003	○ 822.14.6N0.0003	○ 822.14.6S0.0003	○ 822.14.6V0.0003
100	○ 822.15.6E0.0003	○ 822.15.6N0.0003	○ 822.15.6S0.0003	○ 822.15.6V0.0003

gasket for centring ring inch

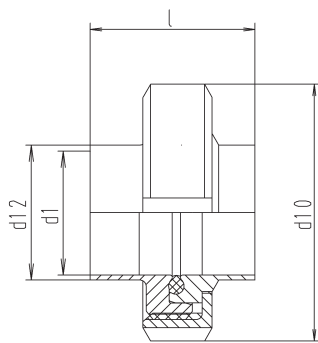
nocapius



DN	weight (kg)
1"	-
1¼"	-
1½"	-
2"	-
2½"	-
3"	-
4"	-

welding union aseptic, short, DIN 11864 (for tubing acc. DIN 11850 line 2)

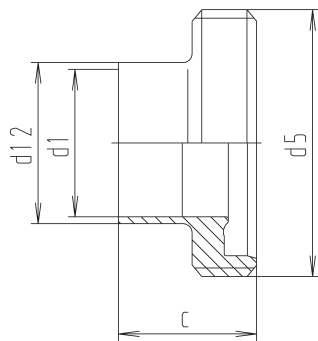
nocapius



DN	d1	d10	d12	l	weight (kg)
10	10	38	13	32	0,126
15	16	44	19	32	0,160
20	20	54	23	34	0,273
25	25	63	29	42	0,385
32	32	70	35	48	0,455
40	38	78	41	50	0,537
50	50	92	53	54	0,732
65	66	112	70	62	1,195
80	81	127	85	72	1,682
100	100	148	104	86	2,308

welding male, aseptic, short, DIN 11864 (for tub. acc. DIN 11850 line 2) (250A)

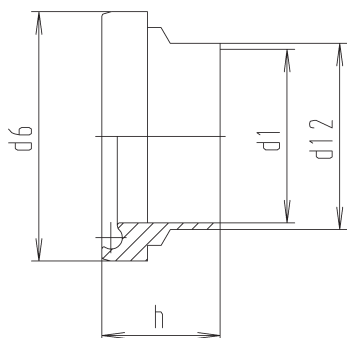
nocapius



DN	c	d1	d5	d12	weight (kg)
10	19	10	28x1/8"	13	0,036
15	19	16	34x1/8"	19	0,050
20	21	20	44x1/6"	23	0,093
25	26	26	52x1/6"	29	0,125
32	30	32	58x1/6"	35	0,138
40	31	38	65x1/6"	41	0,172
50	31	50	78x1/6"	53	0,226
65	36	66	95x1/6"	70	0,347
80	42	81	110x1/4"	85	0,532
100	50	100	130x1/4"	104	0,646

liner, aseptic, DIN 11864 (for tubing acc. DIN 11850 line 2)

nocapius



DN	d1	d6	d12	h	weight (kg)
10	10	21.9	13	17	0,020
15	16	27.9	19	17	0,030
20	20	35.9	23	18	0,050
25	26	42.9	29	22	0,080
32	32	48.9	35	25	0,097
40	38	54.9	41	26	0,115
50	50	66.9	53	30	0,166
65	66	84.9	70	34	0,298
80	81	98.9	85	38	0,350
100	100	118.9	104	46	0,582

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM Ident number	NBR Ident number	MVQ Ident number	FPM Ident number
1"	○ 822.08.6E0.0004	○ 822.08.6N0.0004	○ 822.08.6S0.0004	○ 822.08.6V0.0004
1¼"	○ 822.09.6E0.0004	○ 822.09.6N0.0004	○ 822.09.6S0.0004	○ 822.09.6V0.0004
1½"	○ 822.10.6E0.0004	○ 822.10.6N0.0004	○ 822.10.6S0.0004	○ 822.10.6V0.0004
2"	○ 822.11.6E0.0004	○ 822.11.6N0.0004	○ 822.11.6S0.0004	○ 822.11.6V0.0004
2½"	○ 822.12.6E0.0004	○ 822.12.6N0.0004	○ 822.12.6S0.0004	○ 822.12.6V0.0004
3"	○ 822.13.6E0.0004	○ 822.13.6N0.0004	○ 822.13.6S0.0004	○ 822.13.6V0.0004
4"	○ 822.15.6E0.0004	○ 822.15.6N0.0004	○ 822.15.6S0.0004	○ 822.15.6V0.0004

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
10	● 127.04.12E.0070
15	● 127.06.12E.0070
20	● 127.07.12E.0070
25	● 127.08.12E.0070
32	● 127.09.12E.0070
40	● 127.10.12E.0070
50	● 127.11.12E.0070
65	● 127.12.12E.0070
80	● 127.14.12E.0070
100	● 127.15.12E.0070

standard gasket EPDM considered

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

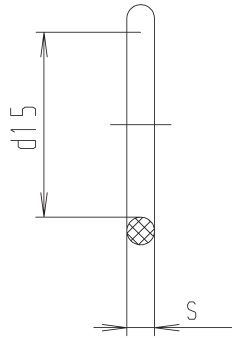
DN	316 L polished Ident number
10	● 121.04.120.0050
15	● 121.06.120.0050
20	● 121.07.120.0050
25	● 121.08.120.0050
32	● 121.09.120.0050
40	● 121.10.120.0050
50	● 121.11.120.0050
65	● 121.12.120.0050
80	● 121.14.120.0050
100	● 121.15.120.0050

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
10	● 122.04.120.0050
15	● 122.06.120.0050
20	● 122.07.120.0050
25	● 122.08.120.0050
32	● 122.09.120.0050
40	● 122.10.120.0050
50	● 122.11.120.0050
65	● 122.12.120.0050
80	● 122.14.120.0050
100	● 122.15.120.0050

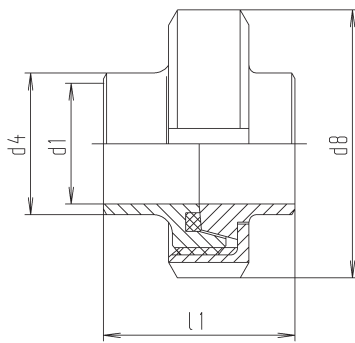
o-ring aseptic DIN 11864-R (252)

nocapius



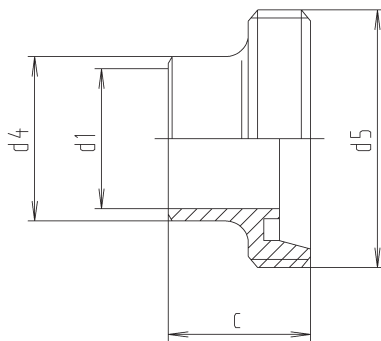
DN	d15	s	weight (kg)
10	12	3.5	0,001
15	18	3.5	0,001
20	22	3.5	0,001
25	28	3.5	0,002
32	34	5	0,003
40	40	5	0,003
50	52	5	0,004
65	68	5	0,005
80	83	5	0,006
100	102	5	0,008

welding union similar to DIN 11851-S (212A)



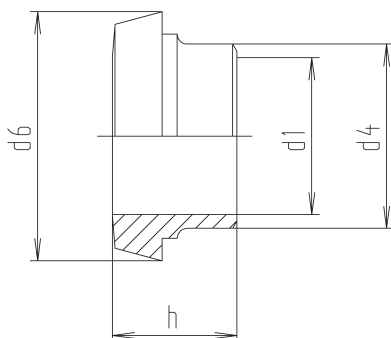
DN	d1	d4	d8	l1	weight (kg)
10	10	15	38	34	0,130
15	16	21	44	34	0,160
20	20	25	54	36	0,280
25	26	31	63	45	0,390
32	32	37	70	51	0,470
40	38	43	78	53	0,550
50	50	55	92	57	0,770
65	66	72	112	65	1,240
80	81	87	127	75	1,730
100	100	106	148	89	2,400
125	125	132	178	70	3,270
150	150	157	210	76	4,630

male part DIN 11851-SC



DN	c	d1	d4	d5	weight (kg)
10	21	10	15	28x1/8"	0,040
15	21	16	21	34x1/8"	0,050
20	24	20	25	44x1/6"	0,090
25	29	26	31	52x1/6"	0,120
32	32	32	37	58x1/6"	0,140
40	33	38	43	65x1/6"	0,170
50	35	50	55	78x1/6"	0,240
65	40	66	72	95x1/6"	0,380
80	45	81	87	110x1/4"	0,550
100	54	100	106	130x1/4"	0,710
125	46	125	132	160x1/4"	1,020
150	50	150	157	190x1/4"	1,710

welding liner DIN 11851-SD (welding bevel acc. DIN 11850) (214)



DN	d1	d4	d6	h	weight (kg)
10	10	15	22.5	17	0,020
15	16	21	28.5	17	0,030
20	20	25	36.5	18	0,060
25	26	31	44	22	0,090
32	32	37	50	25	0,110
40	38	43	56	26	0,130
50	50	55	68.5	28	0,190
65	66	72	86	32	0,310
80	81	87	100	37	0,380
100	100	106	121	44	0,610
125	125	132	150	34	0,800
150	150	157	176	37	1,040

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM Ident number	FPM Ident number
10	● 827.04.6E0.0237	● 827.04.6V0.0237
15	● 827.06.6E0.0237	● 827.06.6V0.0237
20	● 827.07.6E0.0237	● 827.07.6V0.0237
25	● 827.08.6E0.0237	● 827.08.6V0.0237
32	● 827.09.6E0.0237	● 827.09.6V0.0237
40	● 827.10.6E0.0237	● 827.10.6V0.0237
50	● 827.11.6E0.0237	● 827.11.6V0.0237
65	● 827.12.6E0.0237	● 827.12.6V0.0237
80	● 827.14.6E0.0237	● 827.14.6V0.0237
100	● 827.15.6E0.0237	● 827.15.6V0.0237

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 127.04.11N.0001	● 127.04.21N.0001	● 127.04.12N.0001	○ 127.04.22N.0001
15	● 127.06.11N.0001	● 127.06.21N.0001	● 127.06.12N.0001	● 127.06.22N.0001
20	● 127.07.11N.0001	● 127.07.21N.0001	● 127.07.12N.0001	● 127.07.22N.0001
25	● 127.08.11N.0001	● 127.08.21N.0001	● 127.08.12N.0001	● 127.08.22N.0001
32	● 127.09.11N.0001	● 127.09.21N.0001	● 127.09.12N.0001	● 127.09.22N.0001
40	● 127.10.11N.0001	● 127.10.21N.0001	● 127.10.12N.0001	● 127.10.22N.0001
50	● 127.11.11N.0001	● 127.11.21N.0001	● 127.11.12N.0001	● 127.11.22N.0001
65	● 127.12.11N.0001	● 127.12.21N.0001	● 127.12.12N.0001	● 127.12.22N.0001
80	● 127.14.11N.0001	● 127.14.21N.0001	● 127.14.12N.0001	● 127.14.22N.0001
100	● 127.15.11N.0001	● 127.15.21N.0001	● 127.15.12N.0001	● 127.15.22N.0001
125	● 127.16.11N.0001	○ 127.16.21N.0001	● 127.16.12N.0001	○ 127.16.22N.0001
150	● 127.17.11N.0001	○ 127.17.21N.0001	● 127.17.12N.0001	○ 127.17.22N.0001

standard gasket NBR considered

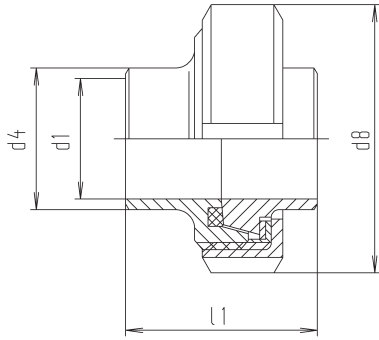
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 121.04.110.0001	● 121.04.210.0001	● 121.04.120.0001	● 121.04.220.0001
15	● 121.06.110.0001	● 121.06.210.0001	● 121.06.120.0001	● 121.06.220.0001
20	● 121.07.110.0001	● 121.07.210.0001	● 121.07.120.0001	● 121.07.220.0001
25	● 121.08.110.0001	● 121.08.210.0001	● 121.08.120.0001	● 121.08.220.0001
32	● 121.09.110.0001	● 121.09.210.0001	● 121.09.120.0001	● 121.09.220.0001
40	● 121.10.110.0001	● 121.10.210.0001	● 121.10.120.0001	● 121.10.220.0001
50	● 121.11.110.0001	● 121.11.210.0001	● 121.11.120.0001	● 121.11.220.0001
65	● 121.12.110.0001	● 121.12.210.0001	● 121.12.120.0001	● 121.12.220.0001
80	● 121.14.110.0001	● 121.14.210.0001	● 121.14.120.0001	● 121.14.220.0001
100	● 121.15.110.0001	● 121.15.210.0001	● 121.15.120.0001	● 121.15.220.0001
125	● 121.16.110.0001	● 121.16.210.0001	● 121.16.120.0001	● 121.16.220.0001
150	● 121.17.110.0001	● 121.17.210.0001	● 121.17.120.0001	● 121.17.220.0001

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

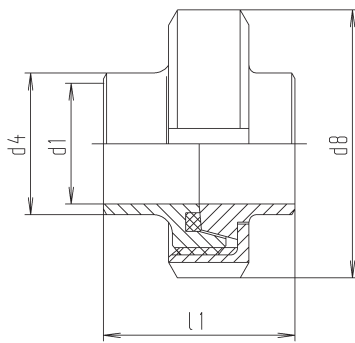
DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 122.04.110.0001	● 122.04.210.0001	● 122.04.120.0001	● 122.04.220.0001
15	● 122.06.110.0001	● 122.06.210.0001	● 122.06.120.0001	● 122.06.220.0001
20	● 122.07.110.0001	● 122.07.210.0001	● 122.07.120.0001	● 122.07.220.0001
25	● 122.08.110.0001	● 122.08.210.0001	● 122.08.120.0001	● 122.08.220.0001
32	● 122.09.110.0001	● 122.09.210.0001	● 122.09.120.0001	● 122.09.220.0001
40	● 122.10.110.0001	● 122.10.210.0001	● 122.10.120.0001	● 122.10.220.0001
50	● 122.11.110.0001	● 122.11.210.0001	● 122.11.120.0001	● 122.11.220.0001
65	● 122.12.110.0001	● 122.12.210.0001	● 122.12.120.0001	● 122.12.220.0001
80	● 122.14.110.0001	● 122.14.210.0001	● 122.14.120.0001	● 122.14.220.0001
100	● 122.15.110.0001	● 122.15.210.0001	● 122.15.120.0001	● 122.15.220.0001
125	● 122.16.110.0001	● 122.16.210.0001	● 122.16.120.0001	○ 122.16.220.0001
150	● 122.17.110.0001	○ 122.17.210.0001	● 122.17.120.0001	○ 122.17.220.0001

welding union, swivel connection, similar to DIN 11851-S



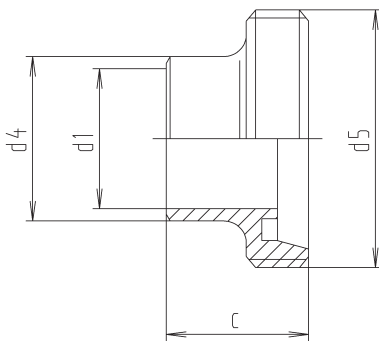
DN	d1	d4	d8	l1	weight (kg)
25	26	31	63	44	0,390
32	32	37	70	50	0,470
40	38	43	78	52	0,550
50	50	55	92	56	0,770
65	66	72	112	64	1,240
80	81	87	127	74	1,730
100	100	106	148	88	2,400

welding union similar to DIN 11851-S (212A)



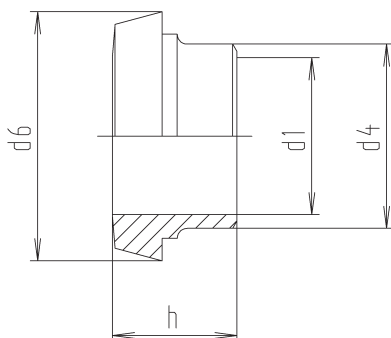
DN	d1	d4	d8	l1	weight (kg)
10	10	15	38	34	0,130
15	16	21	44	34	0,160
20	20	25	54	36	0,280
25	26	31	63	45	0,390
32	32	37	70	51	0,470
40	38	43	78	53	0,550
50	50	55	92	57	0,770
65	66	72	112	65	1,240
80	81	87	127	75	1,730
100	100	106	148	89	2,400
125	125	132	178	70	3,270
150	150	157	210	76	4,630

male part DIN 11851-SC



DN	c	d1	d4	d5	nw	weight (kg)
10	21	10	15	28x1/8"	10	0,040
15	21	16	21	34x1/8"	15	0,050
20	24	20	25	44x1/6"	20	0,090
25	29	26	31	52x1/6"	25	0,120
32	32	32	37	58x1/6"	32	0,140
40	33	38	43	65x1/6"	40	0,170
50	35	50	55	78x1/6"	50	0,240
65	40	66	72	95x1/6"	65	0,380
80	45	81	87	110x1/4"	80	0,550
100	54	100	106	130x1/4"	100	0,710
125	46	125	132	160x1/4"	125	1,020
150	50	150	157	190x1/4"	150	1,710

welding liner DIN 11851-SD (welding bevel acc. DIN 11850) (214)



DN	d1	d4	d6	h	nw	weight (kg)
10	10	15	22.5	17	10	0,020
15	16	21	28.5	17	15	0,030
20	20	25	36.5	18	20	0,060
25	26	31	44	22	25	0,090
32	32	37	50	25	32	0,110
40	38	43	56	26	40	0,130
50	50	55	68.5	28	50	0,190
65	66	72	86	32	65	0,310
80	81	87	100	37	80	0,380
100	100	106	121	44	100	0,610
125	125	132	150	34	125	0,800
150	150	157	176	37	150	1,040

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	
25	o	127.08.11N.0023
32	o	127.09.11N.0023
40	o	127.10.11N.0023
50	o	127.11.11N.0023
65	o	127.12.11N.0023
80	o	127.14.11N.0023
100	o	127.15.11N.0023
standard gasket NBR considered		

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number		316 L matt Ident number	
10	o	127.04.12N.0301	o	127.04.22N.0301
15	o	127.06.12N.0301	o	127.06.22N.0301
20	o	127.07.12N.0301	o	127.07.22N.0301
25	o	127.08.12N.0301	o	127.08.22N.0301
32	o	127.09.12N.0301	o	127.09.22N.0301
40	o	127.10.12N.0301	o	127.10.22N.0301
50	o	127.11.12N.0301	o	127.11.22N.0301
65	o	127.12.12N.0301	o	127.12.22N.0301
80	o	127.14.12N.0301	o	127.14.22N.0301
100	o	127.15.12N.0301	o	127.15.22N.0301
125	o	127.16.12N.0301	o	127.16.22N.0301
150	o	127.17.12N.0301	o	127.17.22N.0301
standard gasket NBR considered				

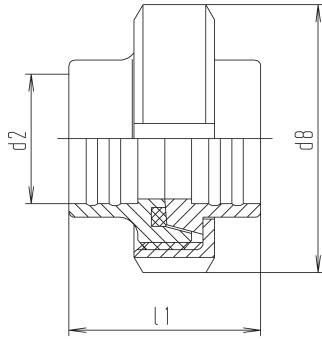
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number		316 L matt Ident number	
10	o	121.04.120.0301	o	121.04.220.0301
15	o	121.06.120.0301	o	121.06.220.0301
20	o	121.07.120.0301	o	121.07.220.0301
25	o	121.08.120.0301	o	121.08.220.0301
32	o	121.09.120.0301	o	121.09.220.0301
40	o	121.10.120.0301	o	121.10.220.0301
50	o	121.11.120.0301	o	121.11.220.0301
65	o	121.12.120.0301	o	121.12.220.0301
80	o	121.14.120.0301	o	121.14.220.0301
100	o	121.15.120.0301	o	121.15.220.0301
125	o	121.16.120.0301	o	121.16.220.0301
150	o	121.17.120.0301	o	121.17.220.0301

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

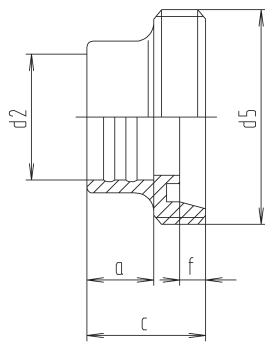
DN	316 L polished Ident number		316 L matt Ident number	
10	o	122.04.120.0301	o	122.04.220.0301
15	o	122.06.120.0301	o	122.06.220.0301
20	o	122.07.120.0301	o	122.07.220.0301
25	o	122.08.120.0301	o	122.08.220.0301
32	o	122.09.120.0301	o	122.09.220.0301
40	o	122.10.120.0301	o	122.10.220.0301
50	o	122.11.120.0301	o	122.11.220.0301
65	o	122.12.120.0301	o	122.12.220.0301
80	o	122.14.120.0301	o	122.14.220.0301
100	o	122.15.120.0301	o	122.15.220.0301
125	o	122.16.120.0301	o	122.16.220.0301
150	o	122.17.120.0301	o	122.17.220.0301

union, expanding, DIN 11851 (for tubing acc. DIN 11850 line I)



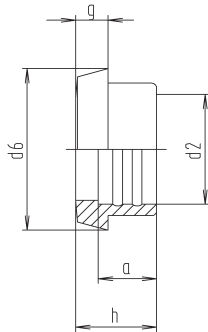
DN	d2	d8	l1	weight (kg)
10	12.2	38	34	0,130
15	18.2	44	34	0,160
20	22.2	54	36	0,290
25	28.2	63	45	0,400
32	34.2	70	51	0,490
40	40.2	78	53	0,610
50	52.2	92	57	0,860
65	70.3	112	65	1,330
80	85.3	127	75	1,800
100	104.3	148	89	2,460
125	129.4	178	70	3,700
150	154.4	210	76	4,950

male DIN 11851-C expanding (for tubing DIN 11850 line I) (205)



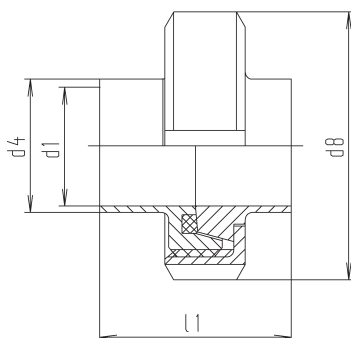
DN	a	c	d2	d5	f	weight (kg)
10	12	21	12.2	28x1/8"	4	0,040
15	12	21	18.2	34x1/8"	4	0,050
20	12	24	22.2	44x1/6"	6	0,100
25	15	29	28.2	52x1/6"	7	0,130
32	18	32	34.2	58x1/6"	7	0,160
40	20	33	40.2	65x1/6"	7	0,210
50	22	35	52.2	78x1/6"	7	0,300
65	25	40	70.3	95x1/6"	8	0,450
80	28	45	85.3	110x1/4"	8	0,600
100	35	54	104.3	130x1/4"	10	0,780
125	10	46	129.4	160x1/4"	12	1,120
150	12	50	154.4	190x1/4"	13	1,910

liner DIN 11851, expanding-D (for tubing acc. DIN 11850 line I) (206)



DN	a	d2	d6	g	h	weight (kg)
10	12	12.2	22.5	6	17	0,020
15	12	18.2	28.5	6	17	0,030
20	12	22.2	36.5	8	18	0,060
25	15	28.2	44	10	22	0,090
32	18	34.2	50	10	25	0,110
40	20	40.2	56	10	26	0,140
50	22	52.2	68.5	11	28	0,210
65	25	70.3	86	12	32	0,320
80	28	85.3	100	12	37	0,390
100	35	104.3	121	15	44	0,590
125	10	129.4	150	17	34	1,110
150	12	154.4	176	18	37	1,130

welding union similar to DIN 11851-S, inch (212Z)



DN	d1	d4	d8	l1	weight (kg)
1"	22.1	25.4	63	45	0,420
1¼"	28.5	31.8	70	51	0,510
1½"	34.8	38.1	78	53	0,610
2"	47.5	50.8	92	57	0,830
2½"	60.2	63.5	112	65	1,390
3"	72.9	76.2	119	75	1,500
4"	97.4	101.6	148	89	2,920

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 127.04.11N.0000	○ 127.04.21N.0000	○ 127.04.12N.0000	○ 127.04.22N.0000
15	○ 127.06.11N.0000	○ 127.06.21N.0000	○ 127.06.12N.0000	○ 127.06.22N.0000
20	● 127.07.11N.0000	○ 127.07.21N.0000	○ 127.07.12N.0000	○ 127.07.22N.0000
25	● 127.08.11N.0000	○ 127.08.21N.0000	● 127.08.12N.0000	○ 127.08.22N.0000
32	○ 127.09.11N.0000	○ 127.09.21N.0000	○ 127.09.12N.0000	○ 127.09.22N.0000
40	● 127.10.11N.0000	○ 127.10.21N.0000	● 127.10.12N.0000	● 127.10.22N.0000
50	● 127.11.11N.0000	● 127.11.21N.0000	● 127.11.12N.0000	● 127.11.22N.0000
65	● 127.12.11N.0000	○ 127.12.21N.0000	● 127.12.12N.0000	● 127.12.22N.0000
80	● 127.14.11N.0000	○ 127.14.21N.0000	● 127.14.12N.0000	● 127.14.22N.0000
100	● 127.15.11N.0000	○ 127.15.21N.0000	● 127.15.12N.0000	● 127.15.22N.0000
125	○ 127.16.11N.0000	○ 127.16.21N.0000	○ 127.16.12N.0000	○ 127.16.22N.0000
150	○ 127.17.11N.0000	○ 127.17.21N.0000	○ 127.17.12N.0000	○ 127.17.22N.0000

standard gasket NBR considered

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 121.04.110.0000	○ 121.04.210.0000	○ 121.04.120.0000	○ 121.04.220.0000
15	● 121.06.110.0000	● 121.06.210.0000	● 121.06.120.0000	● 121.06.220.0000
20	● 121.07.110.0000	● 121.07.210.0000	○ 121.07.120.0000	○ 121.07.220.0000
25	● 121.08.110.0000	● 121.08.210.0000	● 121.08.120.0000	● 121.08.220.0000
32	● 121.09.110.0000	● 121.09.210.0000	● 121.09.120.0000	● 121.09.220.0000
40	● 121.10.110.0000	● 121.10.210.0000	● 121.10.120.0000	● 121.10.220.0000
50	● 121.11.110.0000	● 121.11.210.0000	● 121.11.120.0000	● 121.11.220.0000
65	● 121.12.110.0000	● 121.12.210.0000	● 121.12.120.0000	● 121.12.220.0000
80	● 121.14.110.0000	● 121.14.210.0000	● 121.14.120.0000	● 121.14.220.0000
100	● 121.15.110.0000	● 121.15.210.0000	● 121.15.120.0000	● 121.15.220.0000
125	○ 121.16.110.0000	○ 121.16.210.0000	○ 121.16.120.0000	○ 121.16.220.0000
150	○ 121.17.110.0000	○ 121.17.210.0000	○ 121.17.120.0000	○ 121.17.220.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

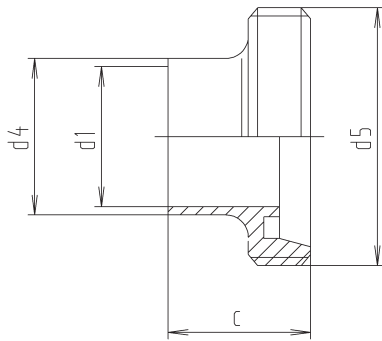
DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 122.04.110.0000	○ 122.04.210.0000	○ 122.04.120.0000	○ 122.04.220.0000
15	○ 122.06.110.0000	○ 122.06.210.0000	○ 122.06.120.0000	○ 122.06.220.0000
20	● 122.07.110.0000	● 122.07.210.0000	● 122.07.120.0000	● 122.07.220.0000
25	● 122.08.110.0000	● 122.08.210.0000	● 122.08.120.0000	● 122.08.220.0000
32	○ 122.09.110.0000	○ 122.09.210.0000	○ 122.09.120.0000	○ 122.09.220.0000
40	● 122.10.110.0000	● 122.10.210.0000	● 122.10.120.0000	● 122.10.220.0000
50	● 122.11.110.0000	● 122.11.210.0000	● 122.11.120.0000	● 122.11.220.0000
65	● 122.12.110.0000	● 122.12.210.0000	● 122.12.120.0000	● 122.12.220.0000
80	● 122.14.110.0000	● 122.14.210.0000	● 122.14.120.0000	● 122.14.220.0000
100	● 122.15.110.0000	● 122.15.210.0000	● 122.15.120.0000	● 122.15.220.0000
125	○ 122.16.110.0000	○ 122.16.210.0000	○ 122.16.120.0000	○ 122.16.220.0000
150	○ 122.17.110.0000	○ 122.17.210.0000	○ 122.17.120.0000	○ 122.17.220.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	● 127.08.11N.0006	● 127.08.21N.0006	● 127.08.12N.0006	● 127.08.22N.0006
1¼"	● 127.09.11N.0006	○ 127.09.21N.0006	● 127.09.12N.0006	● 127.09.22N.0006
1½"	● 127.10.11N.0006	● 127.10.21N.0006	● 127.10.12N.0006	● 127.10.22N.0006
2"	● 127.11.11N.0006	● 127.11.21N.0006	● 127.11.12N.0006	● 127.11.22N.0006
2½"	● 127.12.11N.0006	● 127.12.21N.0006	● 127.12.12N.0006	● 127.12.22N.0006
3"	● 127.13.11N.0006	○ 127.13.21N.0006	● 127.13.12N.0006	● 127.13.22N.0006
4"	○ 127.15.11N.0006	○ 127.15.21N.0006	● 127.15.12N.0006	● 127.15.22N.0006

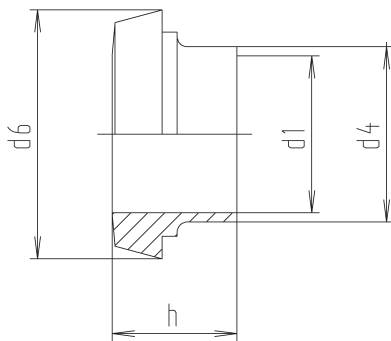
standard gasket NBR considered

male part DIN 11851-SC inch



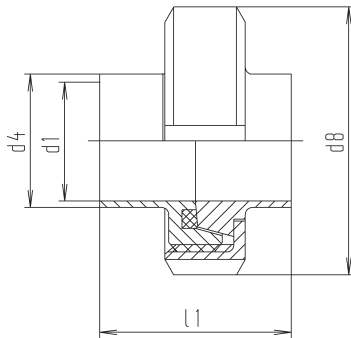
DN	c	d1	d4	d5	weight (kg)
1"	29	22.1	25.4	52x1/6"	0,140
1¼"	32	28.5	31.8	58x1/6"	0,170
1½"	33	34.8	38.1	65x1/6"	0,210
2"	35	47.5	50.8	78x1/6"	0,280
2½"	40	60.2	63.5	95x1/6"	0,470
3"	40	72.9	76.2	104x1/6"	0,510
4"	54	97.4	101.6	130x1/4"	1,020

welding liner sim. DIN 11851-SD inch (214Z)



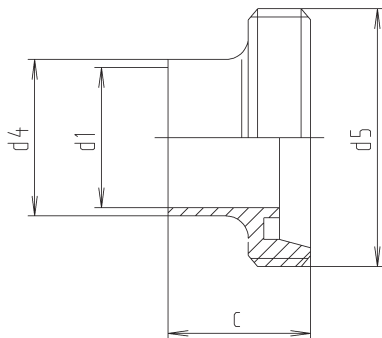
DN	d1	d4	d6	h	weight (kg)
1"	22.1	25.4	44	22	0,100
1¼"	28.5	31.8	50	25	0,120
1½"	34.8	38.1	56	26	0,150
2"	47.5	50.8	68.5	28	0,210
2½"	60.2	63.5	86	32	0,370
3"	72.9	76.2	93	32	0,340
4"	97.4	101.6	121	44	0,820

welding union similar to DIN 11851-S, inch (212Z)



DN	d1	d4	d8	l1	weight (kg)
1"	22.1	25.4	63	45	0,420
1¼"	28.5	31.8	70	51	0,510
1½"	34.8	38.1	78	53	0,610
2"	47.5	50.8	92	57	0,830
2½"	60.2	63.5	112	65	1,390
3"	72.9	76.2	119	75	1,500
4"	97.4	101.6	148	89	2,920

male part DIN 11851-SC inch



DN	c	d1	d4	d5	weight (kg)
1"	29	22.1	25.4	52x1/6"	0,140
1¼"	32	28.5	31.8	58x1/6"	0,170
1½"	33	34.8	38.1	65x1/6"	0,210
2"	35	47.5	50.8	78x1/6"	0,280
2½"	40	60.2	63.5	95x1/6"	0,470
3"	40	72.9	76.2	104x1/6"	0,510
4"	54	97.4	101.6	130x1/4"	1,020

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	● 121.08.110.0006	● 121.08.210.0006	● 121.08.120.0006	● 121.08.220.0006
1¼"	● 121.09.110.0006	● 121.09.210.0006	● 121.09.120.0006	● 121.09.220.0006
1½"	● 121.10.110.0006	● 121.10.210.0006	● 121.10.120.0006	● 121.10.220.0006
2"	● 121.11.110.0006	● 121.11.210.0006	● 121.11.120.0006	● 121.11.220.0006
2½"	● 121.12.110.0006	● 121.12.210.0006	● 121.12.120.0006	● 121.12.220.0006
3"	● 121.13.110.0006	● 121.13.210.0006	● 121.13.120.0006	● 121.13.220.0006
4"	● 121.15.110.0006	● 121.15.210.0006	● 121.15.120.0006	● 121.15.220.0006

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	● 122.08.110.0006	● 122.08.210.0006	● 122.08.120.0006	● 122.08.220.0006
1¼"	● 122.09.110.0006	● 122.09.210.0006	● 122.09.120.0006	● 122.09.220.0006
1½"	● 122.10.110.0006	● 122.10.210.0006	● 122.10.120.0006	● 122.10.220.0006
2"	● 122.11.110.0006	● 122.11.210.0006	● 122.11.120.0006	● 122.11.220.0006
2½"	● 122.12.110.0006	● 122.12.210.0006	● 122.12.120.0006	● 122.12.220.0006
3"	● 122.13.110.0006	● 122.13.210.0006	● 122.13.120.0006	● 122.13.220.0006
4"	● 122.15.110.0006	○ 122.15.210.0006	● 122.15.120.0006	● 122.15.220.0006

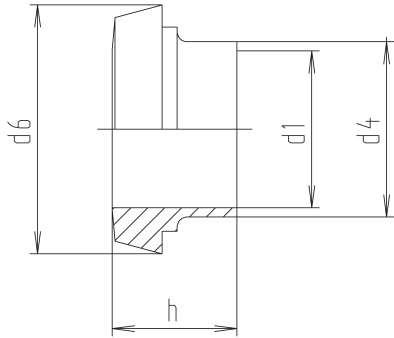
DN	316 L polished Ident number	316 L matt Ident number
1"	○ 127.08.12N.0306	○ 127.08.22N.0306
1¼"	○ 127.09.12N.0306	○ 127.09.22N.0306
1½"	○ 127.10.12N.0306	○ 127.10.22N.0306
2"	○ 127.11.12N.0306	○ 127.11.22N.0306
2½"	○ 127.12.12N.0306	○ 127.12.22N.0306
3"	○ 127.13.12N.0306	○ 127.13.22N.0306
4"	○ 127.15.12N.0306	○ 127.15.22N.0306

standard gasket NBR considered

DN	316 L polished Ident number	316 L matt Ident number
1"	○ 121.08.120.0306	○ 121.08.220.0306
1¼"	○ 121.09.120.0306	○ 121.09.220.0306
1½"	○ 121.10.120.0306	○ 121.10.220.0306
2"	○ 121.11.120.0306	○ 121.11.220.0306
2½"	○ 121.12.120.0306	○ 121.12.220.0306
3"	○ 121.13.120.0306	○ 121.13.220.0306
4"	○ 121.15.120.0306	○ 121.15.220.0306

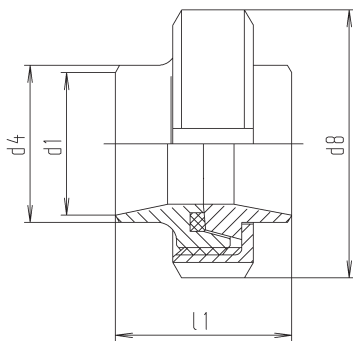
welding liner sim. DIN 11851-SD inch (214Z)

nocapius



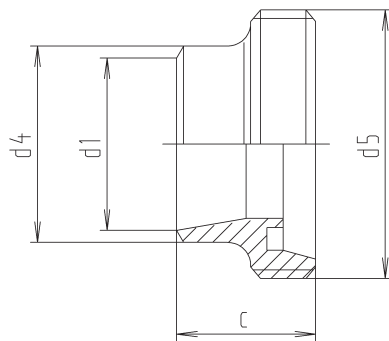
DN	d1	d4	d6	h	weight (kg)
1"	22.1	25.4	44	22	0,100
1¼"	28.5	31.8	50	25	0,120
1½"	34.8	38.1	56	26	0,150
2"	47.5	50.8	68.5	28	0,210
2½"	60.2	63.5	86	32	0,370
3"	72.9	76.2	93	32	0,340
4"	97.4	101.6	121	44	0,820

welding union similar to DIN 11851-S, ISO (212I)



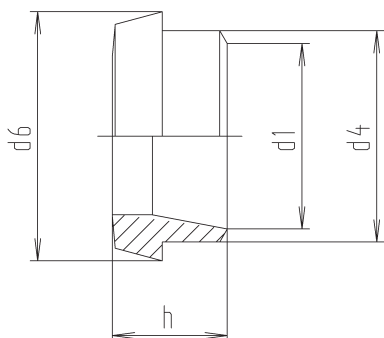
DN	d1	d4	d8	l1	weight (kg)
10	14	17.2	38	34	0,110
15	18.1	21.3	44	34	0,140
20	23.7	26.9	54	36	0,250
25	29.7	33.7	63	45	0,360
32	38.4	42.4	70	51	0,470
40	44.3	48.3	78	53	0,570
50	56.3	60.3	92	57	0,780
65	72.1	76.1	112	65	1,210
80	84.3	88.9	127	75	1,720
100	109.7	114.3	148	89	2,560
125	134.5	139.7	178	70	3,340
150	163.1	168.3	210	76	4,680

male part DIN 11851-SC ISO



DN	c	d1	d4	d5	weight (kg)
10	21	14	17.2	28x1/8"	0,030
15	21	18.1	21.3	34x1/8"	0,040
20	24	23.7	26.9	44x1/6"	0,080
25	29	29.7	33.7	52x1/6"	0,110
32	32	38.4	42.4	58x1/6"	0,140
40	33	44.3	48.3	65x1/6"	0,190
50	35	56.3	60.3	78x1/6"	0,250
65	40	72.1	76.1	95x1/6"	0,370
80	45	84.3	88.9	110x1/4"	0,560
100	54	109.7	114.3	130x1/4"	0,810
125	46	134.5	139.7	160x1/4"	1,130
150	50	163.1	168.3	190x1/4"	1,770

welding liner sim. DIN 11851-SD ISO (214I)



DN	d1	d4	d6	h	weight (kg)
10	14	17.2	22.5	17	0,010
15	18.1	21.3	28.5	17	0,020
20	23.7	26.9	36.5	18	0,040
25	29.7	33.7	44	22	0,070
32	38.4	42.4	50	25	0,110
40	44.3	48.3	56	26	0,130
50	56.3	60.3	68.5	28	0,190
65	72.1	76.1	86	32	0,290
80	84.3	88.9	100	37	0,360
100	109.7	114.3	121	44	0,670
125	134.5	139.7	150	34	0,760
150	163.1	168.3	176	37	1,030

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
1"	○ 122.08.120.0306	○ 122.08.220.0306
1¼"	○ 122.09.120.0306	○ 122.09.220.0306
1½"	○ 122.10.120.0306	○ 122.10.220.0306
2"	○ 122.11.120.0306	○ 122.11.220.0306
2½"	○ 122.12.120.0306	○ 122.12.220.0306
3"	○ 122.13.120.0306	○ 122.13.220.0306
4"	○ 122.15.120.0306	○ 122.15.220.0306

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 127.04.11N.0037	○ 127.04.21N.0037	○ 127.04.12N.0037	○ 127.04.22N.0037
15	○ 127.06.11N.0037	○ 127.06.21N.0037	○ 127.06.12N.0037	○ 127.06.22N.0037
20	○ 127.07.11N.0037	○ 127.07.21N.0037	● 127.07.12N.0037	○ 127.07.22N.0037
25	● 127.08.11N.0037	○ 127.08.21N.0037	○ 127.08.12N.0037	○ 127.08.22N.0037
32	● 127.09.11N.0037	● 127.09.21N.0037	○ 127.09.12N.0037	○ 127.09.22N.0037
40	● 127.10.11N.0037	● 127.10.21N.0037	● 127.10.12N.0037	● 127.10.22N.0037
50	● 127.11.11N.0037	● 127.11.21N.0037	● 127.11.12N.0037	● 127.11.22N.0037
65	● 127.12.11N.0037	● 127.12.21N.0037	○ 127.12.12N.0037	○ 127.12.22N.0037
80	● 127.14.11N.0037	● 127.14.21N.0037	○ 127.14.12N.0037	○ 127.14.22N.0037
100	○ 127.15.11N.0037	○ 127.15.21N.0037	○ 127.15.12N.0037	○ 127.15.22N.0037
125	○ 127.16.11N.0037	○ 127.16.21N.0037	○ 127.16.12N.0037	○ 127.16.22N.0037
150	○ 127.17.11N.0037	○ 127.17.21N.0037	○ 127.17.12N.0037	○ 127.17.22N.0037

standard gasket NBR considered

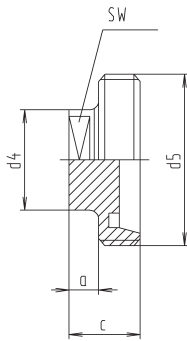
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 121.04.110.0037	● 121.04.210.0037	● 121.04.120.0037	○ 121.04.220.0037
15	● 121.06.110.0037	○ 121.06.210.0037	● 121.06.120.0037	● 121.06.220.0037
20	● 121.07.110.0037	○ 121.07.210.0037	● 121.07.120.0037	● 121.07.220.0037
25	● 121.08.110.0037	● 121.08.210.0037	● 121.08.120.0037	● 121.08.220.0037
32	● 121.09.110.0037	● 121.09.210.0037	● 121.09.120.0037	○ 121.09.220.0037
40	● 121.10.110.0037	● 121.10.210.0037	● 121.10.120.0037	● 121.10.220.0037
50	● 121.11.110.0037	● 121.11.210.0037	● 121.11.120.0037	● 121.11.220.0037
65	● 121.12.110.0037	● 121.12.210.0037	● 121.12.120.0037	○ 121.12.220.0037
80	● 121.14.110.0037	● 121.14.210.0037	● 121.14.120.0037	● 121.14.220.0037
100	○ 121.15.110.0037	● 121.15.210.0037	● 121.15.120.0037	● 121.15.220.0037
125	● 121.16.110.0037	○ 121.16.210.0037	● 121.16.120.0037	● 121.16.220.0037
150	● 121.17.110.0037	● 121.17.210.0037	● 121.17.120.0037	● 121.17.220.0037

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

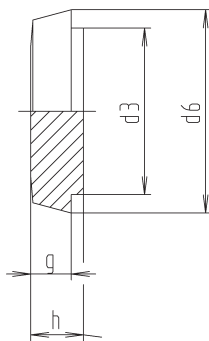
DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 122.04.110.0037	○ 122.04.210.0037	● 122.04.120.0037	● 122.04.220.0037
15	○ 122.06.110.0037	○ 122.06.210.0037	○ 122.06.120.0037	○ 122.06.220.0037
20	○ 122.07.110.0037	○ 122.07.210.0037	○ 122.07.120.0037	● 122.07.220.0037
25	● 122.08.110.0037	● 122.08.210.0037	○ 122.08.120.0037	○ 122.08.220.0037
32	● 122.09.110.0037	● 122.09.210.0037	● 122.09.120.0037	○ 122.09.220.0037
40	● 122.10.110.0037	● 122.10.210.0037	● 122.10.120.0037	● 122.10.220.0037
50	● 122.11.110.0037	● 122.11.210.0037	● 122.11.120.0037	● 122.11.220.0037
65	● 122.12.110.0037	● 122.12.210.0037	○ 122.12.120.0037	● 122.12.220.0037
80	● 122.14.110.0037	● 122.14.210.0037	● 122.14.120.0037	● 122.14.220.0037
100	● 122.15.110.0037	● 122.15.210.0037	● 122.15.120.0037	● 122.15.220.0037
125	○ 122.16.110.0037	○ 122.16.210.0037	● 122.16.120.0037	○ 122.16.220.0037
150	○ 122.17.110.0037	○ 122.17.210.0037	● 122.17.120.0037	○ 122.17.220.0037

male blind, DIN 11851 (217)



DN	a	c	d4	d5	SW	weight (kg)
10	10	22	22	28x1/8"	19	0,060
15	10	22	25	34x1/8"	22	0,090
20	10	24	25	44x1/6"	22	0,130
25	10	24	34	52x1/6"	27	0,190
32	10	24	34	58x1/6"	27	0,220
40	10	24	34	65x1/6"	27	0,250
50	10	24	34	78x1/6"	27	0,350
65	10	26	34	95x1/6"	27	0,640
80	10	30	34	110x1/4"	27	1,300
100	10	30	34	130x1/4"	27	2,100

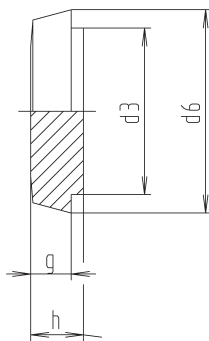
liner din, blank, heavy type (218)



DN	d3	d6	g	h	weight (kg)
10	18	22.5	6	9	0,022
15	24	28.5	6	9	0,040
20	30	36.5	8	11	0,072
25	35	44	10	13	0,130
32	41	50	10	13	0,170
40	48	56	10	13	0,220
50	61	68.5	11	14	0,350
65	79	86	12	16	0,670
75/3"	86	93	12	16	0,770
80	93	100	12	16	0,920
100	114	121	15	20	1,340
125	137	150	17	22	2,800
150	163	176	18	24	4,300

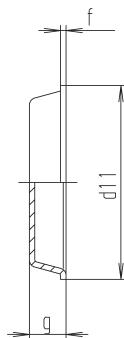
liner din, blank, heavy type (218)

nocapius



DN	d3	d6	g	h	weight (kg)
10	18	22.5	6	9	0,022
15	24	28.5	6	9	0,040
20	30	36.5	8	11	0,072
25	35	44	10	13	0,130
32	41	50	10	13	0,170
40	48	56	10	13	0,220
50	61	68.5	11	14	0,350
65	79	86	12	16	0,670
75/3"	86	93	12	16	0,770
80	93	100	12	16	0,920
100	114	121	15	20	1,340
125	137	150	17	22	2,800
150	163	176	18	24	4,300

liner din, blank, sheet metal type (218A)



DN	d11	f	g	weight (kg)
25	47	1.5	10	0,030
32	53	1.5	10	0,040
40	61	1.5	10	0,050
50	73	1.5	11	0,060
65	90	1.5	12	0,100
75/3"	99	1.5	12	0,110
80	103	1.5	12	0,120
100	123	1.5	15	0,170
125	153	2	17	0,350
150	183	2	18	0,493

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	316 L polished Ident number
10	○ 121.04.110.0008	○ 121.04.120.0008
15	○ 121.06.110.0008	○ 121.06.120.0008
20	● 121.07.110.0008	○ 121.07.120.0008
25	● 121.08.110.0008	● 121.08.120.0008
32	● 121.09.110.0008	● 121.09.120.0008
40	● 121.10.110.0008	● 121.10.120.0008
50	● 121.11.110.0008	● 121.11.120.0008
65	● 121.12.110.0008	● 121.12.120.0008
80	● 121.14.110.0008	○ 121.14.120.0008
100	● 121.15.110.0008	○ 121.15.120.0008

matt finish on demand

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 122.04.110.0008	● 122.04.210.0008	● 122.04.120.0008	● 122.04.220.0008
15	● 122.06.110.0008	● 122.06.210.0008	● 122.06.120.0008	● 122.06.220.0008
20	● 122.07.110.0008	● 122.07.210.0008	● 122.07.120.0008	● 122.07.220.0008
25	● 122.08.110.0008	● 122.08.210.0008	● 122.08.120.0008	● 122.08.220.0008
32	● 122.09.110.0008	● 122.09.210.0008	● 122.09.120.0008	● 122.09.220.0008
40	● 122.10.110.0008	● 122.10.210.0008	● 122.10.120.0008	● 122.10.220.0008
50	● 122.11.110.0008	● 122.11.210.0008	● 122.11.120.0008	● 122.11.220.0008
65	● 122.12.110.0008	● 122.12.210.0008	● 122.12.120.0008	● 122.12.220.0008
75/3"	● 122.13.110.0008	● 122.13.210.0008	● 122.13.120.0008	● 122.13.220.0008
80	● 122.14.110.0008	● 122.14.210.0008	● 122.14.120.0008	● 122.14.220.0008
100	● 122.15.110.0008	● 122.15.210.0008	● 122.15.120.0008	● 122.15.220.0008
125	● 122.16.110.0008	● 122.16.210.0008	● 122.16.120.0008	● 122.16.220.0008
150	● 122.17.110.0008	● 122.17.210.0008	● 122.17.120.0008	● 122.17.220.0008

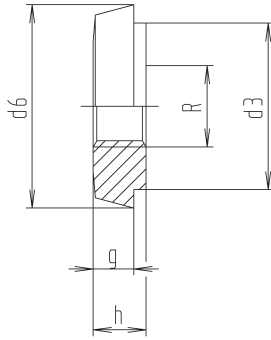
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number	316 L matt Ident number
10	○ 122.04.120.0308	○ 122.04.220.0308
15	○ 122.06.120.0308	○ 122.06.220.0308
20	○ 122.07.120.0308	○ 122.07.220.0308
25	○ 122.08.120.0308	○ 122.08.220.0308
32	○ 122.09.120.0308	○ 122.09.220.0308
40	○ 122.10.120.0308	○ 122.10.220.0308
50	○ 122.11.120.0308	○ 122.11.220.0308
65	○ 122.12.120.0308	○ 122.12.220.0308
75/3"	○ 122.13.120.0308	○ 122.13.220.0308
80	○ 122.14.120.0308	○ 122.14.220.0308
100	○ 122.15.120.0308	○ 122.15.220.0308
125	○ 122.16.120.0308	○ 122.16.220.0308
150	○ 122.17.120.0308	○ 122.17.220.0308

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

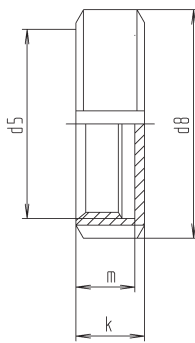
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 122.08.110.0009	● 122.08.210.0009	● 122.08.120.0009	● 122.08.220.0009
32	● 122.09.110.0009	● 122.09.210.0009	● 122.09.120.0009	● 122.09.220.0009
40	● 122.10.110.0009	● 122.10.210.0009	● 122.10.120.0009	● 122.10.220.0009
50	● 122.11.110.0009	● 122.11.210.0009	● 122.11.120.0009	● 122.11.220.0009
65	● 122.12.110.0009	● 122.12.210.0009	● 122.12.120.0009	● 122.12.220.0009
75/3"	○ 122.13.110.0009	○ 122.13.210.0009	● 122.13.120.0009	○ 122.13.220.0009
80	● 122.14.110.0009	● 122.14.210.0009	○ 122.14.120.0009	○ 122.14.220.0009
100	● 122.15.110.0009	● 122.15.210.0009	● 122.15.120.0009	● 122.15.220.0009
125	● 122.16.110.0009	● 122.16.210.0009	● 122.16.120.0009	● 122.16.220.0009
150	● 122.17.110.0009	● 122.17.210.0009	● 122.17.120.0009	● 122.17.220.0009

liner din, blank, heavy, w. centered R-thread (219)



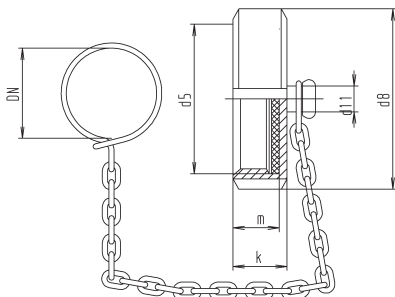
DN	d3	d6	g	h	Rmax	weight (kg)
10	18	22.5	6	9	1/8"	0,020
15	24	28.5	6	9	1/4"	0,040
20	30	36.5	8	11	3/8"	0,070
25	35	44	10	13	1/2"	0,130
32	41	50	10	13	3/4"	0,170
40	48	56	10	13	1"	0,220
50	61	68.5	11	14	1 1/2"	0,350
65	79	86	12	16	2"	0,670
75/3"	86	93	12	16	2"	0,770
80	93	100	12	16	2 1/2"	0,920
100	114	121	15	20	3"	1,340
125	137	150	17	22	3"	1,680
150	163	176	18	24	3"	4,300

blind nut, flat gasket, DIN 11851(220)



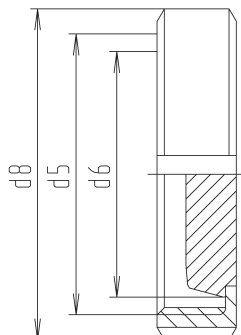
DN	d5	d8	k	m	weight (kg)
10	28x1/8"	38	18	15	0,080
15	34x1/8"	44	18	15	0,100
20	44x1/6"	54	20	17	0,140
25	52x1/6"	63	21	18	0,195
32	58x1/6"	70	21	18	0,230
40	65x1/6"	78	21	18	0,260
50	78x1/6"	92	22	19	0,380
65	95x1/6"	112	25	21	0,660
75/3"	104x1/6"	119	25	21	0,690
80	110x1/4"	127	30	26	1,000
100	130x1/4"	148	31	26	1,400
125	160x1/4"	178	34	29	1,970
150	190x1/4"	210	39	33	2,870

blind nut, with knob, chain and gasket disk, DIN 11851(22IK)



DN	d5	d8	d11	k	m	weight (kg)
10	28x1/8"	38	10	18	15	0,120
15	34x1/8"	44	10	18	15	0,150
20	44x1/6"	54	10	20	17	0,190
25	52x1/6"	63	10	21	18	0,250
32	58x1/6"	70	10	21	18	0,290
40	65x1/6"	78	10	21	18	0,330
50	78x1/6"	92	10	22	19	0,460
65	95x1/6"	112	10	25	21	0,850
75/3"	104x1/6"	119	10	25	21	0,900
80	110x1/4"	127	10	30	26	1,110
100	130x1/4"	148	10	31	26	1,530
125	160x1/4"	178	10	34	29	2,120
150	190x1/4"	210	10	39	33	3,050

blind nut, female type, DIN 11851 gasket



DN	d5	d6	d8	weight (kg)
25	52x1/6"	44	63	0,325
32	58x1/6"	50	70	0,405
40	65x1/6"	56	78	0,485
50	78x1/6"	68.5	92	0,710
65	95x1/6"	86	112	1,240
75/3"	104x1/6"	93	119	1,350
80	110x1/4"	100	127	1,745
100	130x1/4"	121	148	2,425

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 122.04.110.0010	○ 122.04.210.0010	○ 122.04.120.0010	○ 122.04.220.0010
15	○ 122.06.110.0010	○ 122.06.210.0010	○ 122.06.120.0010	○ 122.06.220.0010
20	○ 122.07.110.0010	○ 122.07.210.0010	○ 122.07.120.0010	○ 122.07.220.0010
25	○ 122.25.110.0010	○ 122.25.210.0010	○ 122.25.120.0010	○ 122.25.220.0010
32	○ 122.29.110.0010	○ 122.29.210.0010	○ 122.29.120.0010	○ 122.29.220.0010
40	○ 122.34.110.0010	○ 122.34.210.0010	○ 122.34.120.0010	○ 122.34.220.0010
50	○ 122.41.110.0010	○ 122.41.210.0010	○ 122.41.120.0010	○ 122.41.220.0010
65	○ 122.48.110.0010	○ 122.48.210.0010	○ 122.48.120.0010	○ 122.48.220.0010
75/3"	○ 122.55.110.0010	○ 122.55.210.0010	○ 122.55.120.0010	○ 122.55.220.0010
80	○ 122.63.110.0010	○ 122.63.210.0010	○ 122.63.120.0010	○ 122.63.220.0010
100	○ 122.74.110.0010	○ 122.74.210.0010	○ 122.74.120.0010	○ 122.74.220.0010
125	○ 122.84.110.0010	○ 122.84.210.0010	○ 122.84.120.0010	○ 122.84.220.0010
150	○ 122.95.110.0010	○ 122.95.210.0010	○ 122.95.120.0010	○ 122.95.220.0010
andere Innengewindebohrungen auf Anfrage				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 124.04.110.0001	● 124.04.210.0001	● 124.04.120.0001	● 124.04.220.0001
15	● 124.06.110.0001	● 124.06.210.0001	● 124.06.120.0001	● 124.06.220.0001
20	● 124.07.110.0001	● 124.07.210.0001	● 124.07.120.0001	● 124.07.220.0001
25	● 124.08.110.0001	● 124.08.210.0001	● 124.08.120.0001	● 124.08.220.0001
32	● 124.09.110.0001	○ 124.09.210.0001	● 124.09.120.0001	● 124.09.220.0001
40	● 124.10.110.0001	● 124.10.210.0001	● 124.10.120.0001	● 124.10.220.0001
50	● 124.11.110.0001	● 124.11.210.0001	● 124.11.120.0001	● 124.11.220.0001
65	● 124.12.110.0001	● 124.12.210.0001	● 124.12.120.0001	● 124.12.220.0001
75/3"	● 124.13.110.0001	● 124.13.210.0001	○ 124.13.120.0001	○ 124.13.220.0001
80	● 124.14.110.0001	● 124.14.210.0001	● 124.14.120.0001	● 124.14.220.0001
100	● 124.15.110.0001	● 124.15.210.0001	● 124.15.120.0001	● 124.15.220.0001
125	● 124.16.110.0001	● 124.16.210.0001	○ 124.16.120.0001	○ 124.16.220.0001
150	● 124.17.110.0001	● 124.17.210.0001	○ 124.17.120.0001	○ 124.17.220.0001

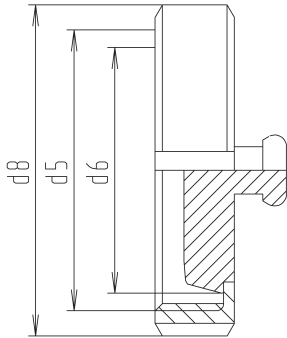
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 124.04.11N.0032	○ 124.04.21N.0032	○ 124.04.12N.0032	○ 124.04.22N.0032
15	● 124.06.11N.0032	● 124.06.21N.0032	○ 124.06.12N.0032	○ 124.06.22N.0032
20	● 124.07.11N.0032	○ 124.07.21N.0032	● 124.07.12N.0032	● 124.07.22N.0032
25	● 124.08.11N.0032	● 124.08.21N.0032	● 124.08.12N.0032	● 124.08.22N.0032
32	● 124.09.11N.0032	● 124.09.21N.0032	○ 124.09.12N.0032	○ 124.09.22N.0032
40	● 124.10.11N.0032	● 124.10.21N.0032	● 124.10.12N.0032	● 124.10.22N.0032
50	● 124.11.11N.0032	● 124.11.21N.0032	● 124.11.12N.0032	● 124.11.22N.0032
65	● 124.12.11N.0032	● 124.12.21N.0032	● 124.12.12N.0032	● 124.12.22N.0032
75/3"	○ 124.13.11N.0032	○ 124.13.21N.0032	○ 124.13.12N.0032	○ 124.13.22N.0032
80	● 124.14.11N.0032	● 124.14.21N.0032	○ 124.14.12N.0032	○ 124.14.22N.0032
100	● 124.15.11N.0032	● 124.15.21N.0032	○ 124.15.12N.0032	○ 124.15.22N.0032
125	○ 124.16.11N.0032	○ 124.16.21N.0032	○ 124.16.12N.0032	○ 124.16.22N.0032
150	● 124.17.11N.0032	● 124.17.21N.0032	○ 124.17.12N.0032	○ 124.17.22N.0032
standard gasket NBR considered				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

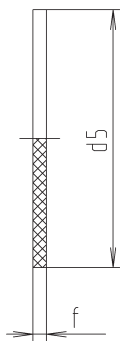
DN	304 L polished Ident number	316 L polished Ident number
25	○ 124.08.110.0056	○ 124.08.120.0056
32	○ 124.09.110.0056	○ 124.09.120.0056
40	○ 124.10.110.0056	○ 124.10.120.0056
50	○ 124.11.110.0056	○ 124.11.120.0056
65	○ 124.12.110.0056	○ 124.12.120.0056
75/3"	○ 124.13.110.0056	○ 124.13.120.0056
80	○ 124.14.110.0056	○ 124.14.120.0056
100	○ 124.15.110.0056	○ 124.15.120.0056
matt finish on demand		

blind nut, female type, w. knob, DIN 11851 gasket with knob



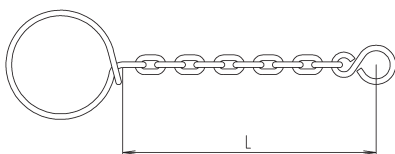
DN	d5	d6	d8	weight (kg)
25	52x1/6"	44	63	0,325
32	58x1/6"	50	70	0,405
40	65x1/6"	56	78	0,485
50	78x1/6"	68,5	92	0,710
65	95x1/6"	86	112	1,240
75/3"	104x1/6"	93	119	1,200
80	110x1/4"	100	127	1,745
100	130x1/4"	121	148	2,425

gasket disc for blind cap (222)



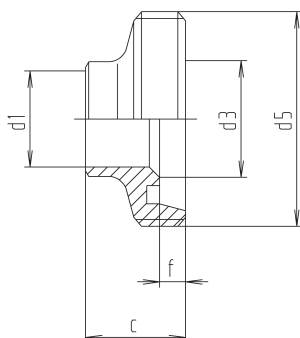
DN	d5	d5-PTFE	f	weight (kg)
10	28	27	3	0,002
15	34	33	3	0,003
20	44	43	3	0,006
25	52	51	3	0,008
32	58	57	3	0,010
40	65	64	3	0,013
50	78	77	3	0,020
65	95	94	3	0,029
75/3"	104	103	3	0,035
80	110	109	3	0,044
100	130	129	3	0,062
125	160	159	3	0,093
150	190	189	3	0,132

chain with hook and eye (223B)



DN	L	weight (kg)
10	85	0,030
15	85	0,030
20	85	0,030
25	120	0,030
32	140	0,030
40	150	0,040
50	140	0,040
65	150	0,050
80	190	0,050
100	195	0,060
125	285	0,070
150	305	0,080

reducing male DIN 11851, welding type



DN	c	d1	d3	d5	f	weight (kg)
25/15	27	16	26	52x1/6"	7	0,110
25/20	27	20	26	52x1/6"	7	0,120
32/25	27	26	32	58x1/6"	7	0,160
40/25	28	26	38	65x1/6"	7	0,220
40/32	29	32	38	65x1/6"	7	0,210
50/25	26	26	50	78x1/6"	7	0,320
50/40	35	38	50	78x1/6"	7	0,330
65/40	39	38	66	95x1/6"	8	0,500
65/50	40	50	66	95x1/6"	8	0,710
80/50	45	50	81	110x1/4"	8	0,920
80/65	46	66	81	110x1/4"	8	0,580
100/65	49	66	100	130x1/4"	10	1,110
100/80	49	81	100	130x1/4"	10	0,930

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	316 L polished Ident number
25	○ 124.08.110.0026	○ 124.08.120.0026
32	○ 124.09.110.0026	○ 124.09.120.0026
40	○ 124.10.110.0026	○ 124.10.120.0026
50	○ 124.11.110.0026	○ 124.11.120.0026
65	○ 124.12.110.0026	○ 124.12.120.0026
75/3"	○ 124.13.110.0026	○ 124.13.120.0026
80	○ 124.14.110.0026	○ 124.14.120.0026
100	○ 124.15.110.0026	○ 124.15.120.0026
matt finish on demand		

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM Ident number	NBR Ident number	PTFE Ident number	FPM Ident number
10	● 823.04.6E0.0000	● 823.04.6N0.0000	○ 823.04.6T0.0000	● 823.04.6V0.0000
15	● 823.06.6E0.0000	● 823.06.6N0.0000	○ 823.06.6T0.0000	● 823.06.6V0.0000
20	● 823.07.6E0.0000	● 823.07.6N0.0000	○ 823.07.6T0.0000	● 823.07.6V0.0000
25	● 823.08.6E0.0000	● 823.08.6N0.0000	● 823.08.6T0.0000	● 823.08.6V0.0000
32	● 823.09.6E0.0000	● 823.09.6N0.0000	○ 823.09.6T0.0000	● 823.09.6V0.0000
40	● 823.10.6E0.0000	● 823.10.6N0.0000	● 823.10.6T0.0000	● 823.10.6V0.0000
50	● 823.11.6E0.0000	● 823.11.6N0.0000	● 823.11.6T0.0000	● 823.11.6V0.0000
65	● 823.12.6E0.0000	● 823.12.6N0.0000	○ 823.12.6T0.0000	● 823.12.6V0.0000
75/3"	● 823.13.6E0.0000	● 823.13.6N0.0000	○ 823.13.6T0.0000	● 823.13.6V0.0000
80	● 823.14.6E0.0000	● 823.14.6N0.0000	○ 823.14.6T0.0000	● 823.14.6V0.0000
100	● 823.15.6E0.0000	● 823.15.6N0.0000	○ 823.15.6T0.0000	○ 823.15.6V0.0000
125	● 823.16.6E0.0000	● 823.16.6N0.0000	○ 823.16.6T0.0000	● 823.16.6V0.0000
150	○ 823.17.6E0.0000	● 823.17.6N0.0000	○ 823.17.6T0.0000	○ 823.17.6V0.0000

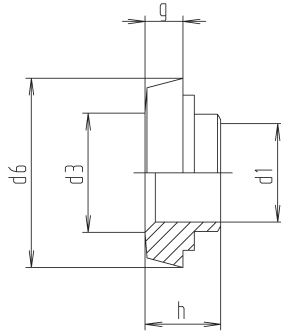
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number
10	● 124.04.110.0004
15	● 124.06.110.0004
20	● 124.07.110.0004
25	● 124.08.110.0004
32	● 124.09.110.0004
40	● 124.10.110.0004
50	● 124.11.110.0004
65	● 124.12.110.0004
80	● 124.14.110.0004
100	● 124.15.110.0004
125	● 124.16.110.0004
150	● 124.17.110.0004

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

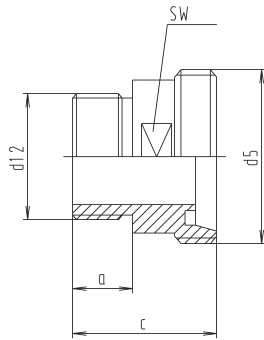
DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
25/15	○ 121.25.110.0012	○ 121.25.210.0012	○ 121.25.120.0012	○ 121.25.220.0012
25/20	● 121.26.110.0012	● 121.26.210.0012	○ 121.26.120.0012	○ 121.26.220.0012
32/25	● 121.30.110.0012	● 121.30.210.0012	○ 121.30.120.0012	○ 121.30.220.0012
40/25	○ 121.34.110.0012	● 121.34.210.0012	○ 121.34.120.0012	○ 121.34.220.0012
40/32	● 121.35.110.0012	● 121.35.210.0012	○ 121.35.120.0012	○ 121.35.220.0012
50/25	● 121.39.110.0012	● 121.39.210.0012	○ 121.39.120.0012	○ 121.39.220.0012
50/40	○ 121.41.110.0012	○ 121.41.210.0012	○ 121.41.120.0012	○ 121.41.220.0012
65/40	● 121.47.110.0012	● 121.47.210.0012	○ 121.47.120.0012	○ 121.47.220.0012
65/50	● 121.48.110.0012	● 121.48.210.0012	○ 121.48.120.0012	○ 121.48.220.0012
80/50	○ 121.63.110.0012	○ 121.63.210.0012	○ 121.63.120.0012	○ 121.63.220.0012
80/65	● 121.64.110.0012	● 121.64.210.0012	○ 121.64.120.0012	○ 121.64.220.0012
100/65	● 121.73.110.0012	● 121.73.210.0012	○ 121.73.120.0012	○ 121.73.220.0012
100/80	● 121.75.110.0012	● 121.75.210.0012	○ 121.75.120.0012	○ 121.75.220.0012
other reducers on demand				

reducing liner DIN 11851, welding type (224A)



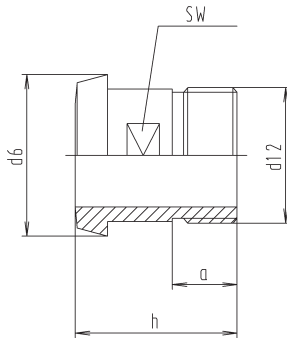
DN	d1	d3	d6	g	h	weight (kg)
25/15	16	26	44	10	22	0,110
25/20	20	26	44	10	22	0,120
32/25	26	32	50	10	20	0,140
40/25	26	38	56	10	20	0,170
40/32	32	38	56	10	23	0,180
50/25	26	50	68.5	11	28	0,310
50/40	38	50	68.5	11	26	0,270
65/40	38	66	86	12	26	0,540
65/50	50	66	86	12	27	0,450
80/50	50	81	100	12	30	0,660
80/65	66	81	100	12	31	0,500
100/65	66	100	121	15	40	1,170
100/80	81	100	121	15	42	1,060

R-male ref.din 11851, thread inside (228)



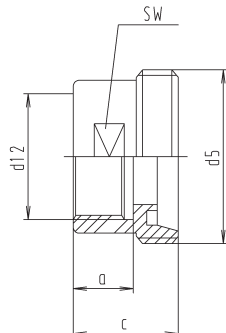
DN	a	c	d5	d12	SW	weight (kg)
10	14	40	28x1/8"	R3/8"	19	0,060
15	14	40	34x1/8"	R1/2"	24	0,080
20	14	42	44x1/6"	R3/4"	30	0,140
25	20	48	52x1/6"	R1"	41	0,280
32	20	48	58x1/6"	R1 1/4"	46	0,350
40	20	50	65x1/6"	R1 1/2"	50	0,400
50	20	52	78x1/6"	R2"	65	0,530
65	22	56	95x1/6"	R2 1/2"	80	0,720
80	25	66	110x1/4"	R3"	95	1,010
100	30	72	130x1/4"	R4"	117	1,540

R-liner ref. DIN 11851, thread inside (227)



DN	a	d6	d12	h	SW	weight (kg)
10	14	22.5	R3/8"	38	14	0,030
15	14	28.5	R1/2"	38	19	0,055
20	14	36.5	R3/4"	40	27	0,095
25	20	44	R1"	50	30	0,140
32	20	50	R1 1/4"	50	36	0,240
40	20	56	R1 1/2"	50	44	0,270
50	20	68.5	R2"	50	55	0,350
65	22	86	R2 1/2"	55	70	0,530
80	25	100	R3"	60	88	0,670
100	30	121	R4"	70	110	1,220

R-male ref.din 11851, thread outside (229)



DN	a	c	d5	d12	SW	weight (kg)
10	14	30	28x1/8"	R3/8"	19	0,060
15	14	30	34x1/8"	R1/2"	24	0,070
20	14	30	44x1/6"	R3/4"	30	0,110
25	20	35	52x1/6"	R1"	41	0,220
32	20	35	58x1/6"	R1 1/4"	46	0,230
40	20	35	65x1/6"	R1 1/2"	50	0,240
50	20	35	78x1/6"	R2"	65	0,370
65	22	38	95x1/6"	R2 1/2"	80	0,540
80	25	43	110x1/4"	R3"	95	0,720
100	30	50	130x1/4"	R4"	117	0,910

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
25/15	● 122.25.110.0012	● 122.25.210.0012	○ 122.25.120.0012	○ 122.25.220.0012
25/20	● 122.26.110.0012	● 122.26.210.0012	○ 122.26.120.0012	○ 122.26.220.0012
32/25	● 122.30.110.0012	● 122.30.210.0012	● 122.30.120.0012	● 122.30.220.0012
40/25	● 122.34.110.0012	● 122.34.210.0012	● 122.34.120.0012	● 122.34.220.0012
40/32	● 122.35.110.0012	● 122.35.210.0012	● 122.35.120.0012	● 122.35.220.0012
50/25	● 122.39.110.0012	● 122.39.210.0012	● 122.39.120.0012	● 122.39.220.0012
50/40	● 122.41.110.0012	● 122.41.210.0012	● 122.41.120.0012	● 122.41.220.0012
65/40	● 122.47.110.0012	○ 122.47.210.0012	● 122.47.120.0012	● 122.47.220.0012
65/50	● 122.48.110.0012	● 122.48.210.0012	● 122.48.120.0012	● 122.48.220.0012
80/50	● 122.63.110.0012	○ 122.63.210.0012	● 122.63.120.0012	● 122.63.220.0012
80/65	● 122.64.110.0012	● 122.64.210.0012	● 122.64.120.0012	● 122.64.220.0012
100/65	● 122.73.110.0012	● 122.73.210.0012	○ 122.73.120.0012	○ 122.73.220.0012
100/80	● 122.75.110.0012	● 122.75.210.0012	● 122.75.120.0012	● 122.75.220.0012
other reducers on demand				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 121.04.110.0016	● 121.04.210.0016	● 121.04.120.0016	● 121.04.220.0016
15	● 121.06.110.0016	● 121.06.210.0016	● 121.06.120.0016	● 121.06.220.0016
20	● 121.07.110.0016	● 121.07.210.0016	● 121.07.120.0016	● 121.07.220.0016
25	● 121.08.110.0016	● 121.08.210.0016	● 121.08.120.0016	● 121.08.220.0016
32	● 121.09.110.0016	● 121.09.210.0016	● 121.09.120.0016	● 121.09.220.0016
40	● 121.10.110.0016	● 121.10.210.0016	● 121.10.120.0016	● 121.10.220.0016
50	● 121.11.110.0016	● 121.11.210.0016	● 121.11.120.0016	● 121.11.220.0016
65	○ 121.12.110.0016	○ 121.12.210.0016	● 121.12.120.0016	● 121.12.220.0016
80	○ 121.14.110.0016	○ 121.14.210.0016	○ 121.14.120.0016	○ 121.14.220.0016
100	○ 121.15.110.0016	○ 121.15.210.0016	○ 121.15.120.0016	○ 121.15.220.0016
other male tpyes on demand				

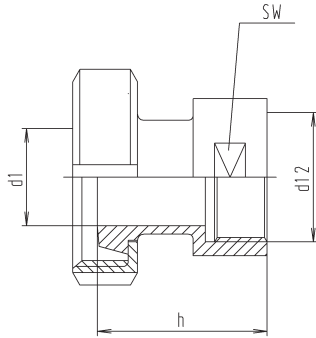
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 122.04.110.0016	● 122.04.210.0016	● 122.04.120.0016	● 122.04.220.0016
15	● 122.06.110.0016	● 122.06.210.0016	● 122.06.120.0016	● 122.06.220.0016
20	● 122.07.110.0016	● 122.07.210.0016	● 122.07.120.0016	● 122.07.220.0016
25	● 122.08.110.0016	● 122.08.210.0016	● 122.08.120.0016	● 122.08.220.0016
32	● 122.09.110.0016	○ 122.09.210.0016	● 122.09.120.0016	● 122.09.220.0016
40	● 122.10.110.0016	● 122.10.210.0016	● 122.10.120.0016	● 122.10.220.0016
50	● 122.11.110.0016	● 122.11.210.0016	● 122.11.120.0016	● 122.11.220.0016
65	● 122.12.110.0016	● 122.12.210.0016	○ 122.12.120.0016	○ 122.12.220.0016
80	● 122.14.110.0016	● 122.14.210.0016	○ 122.14.120.0016	○ 122.14.220.0016
100	● 122.15.110.0016	● 122.15.210.0016	○ 122.15.120.0016	○ 122.15.220.0016
other male tpyes on demand				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

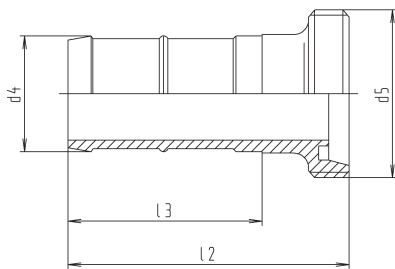
DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 121.04.110.0017	● 121.04.210.0017	● 121.04.120.0017	● 121.04.220.0017
15	● 121.06.110.0017	● 121.06.210.0017	● 121.06.120.0017	● 121.06.220.0017
20	● 121.07.110.0017	● 121.07.210.0017	● 121.07.120.0017	● 121.07.220.0017
25	● 121.08.110.0017	● 121.08.210.0017	● 121.08.120.0017	● 121.08.220.0017
32	● 121.09.110.0017	● 121.09.210.0017	● 121.09.120.0017	● 121.09.220.0017
40	○ 121.10.110.0017	○ 121.10.210.0017	● 121.10.120.0017	● 121.10.220.0017
50	● 121.11.110.0017	● 121.11.210.0017	● 121.11.120.0017	● 121.11.220.0017
65	● 121.12.110.0017	● 121.12.210.0017	○ 121.12.120.0017	○ 121.12.220.0017
80	● 121.14.110.0017	● 121.14.210.0017	○ 121.14.120.0017	○ 121.14.220.0017
100	● 121.15.110.0017	● 121.15.210.0017	○ 121.15.120.0017	○ 121.15.220.0017
other male tpyes on demand				

R-liner ref. DIN 11851, thread outside (230)



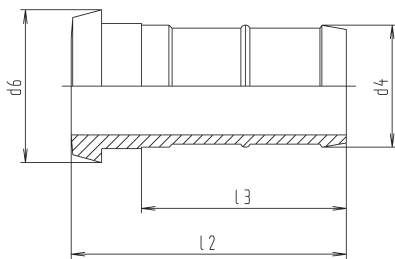
DN	d1	d12	h	SW	weight (kg)
10	10	R3/8"	39	19	0,150
15	16	R1/2"	41	24	0,200
20	20	R3/4"	42	30	0,290
25	26	R1"	52	41	0,540
32	32	R1 1/4"	55	46	0,565
40	38	R1 1/2"	56	50	0,590
50	50	R2"	58	65	0,860
65	66	R2 1/2"	64	80	1,360
80	81	R3"	74	95	1,610
100	100	R4"	89	117	2,340

male hose spout DIN 11851



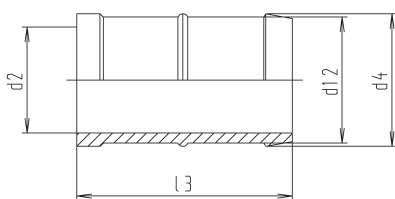
DN	d4	d5	l2	l3	Schl.LW	weight (kg)
10	15	28x1/8"	50	31	13	0,050
15	21	34x1/8"	64	47	19	0,080
20	26	44x1/6"	76	54	25	0,170
25	32	52x1/6"	87	64	30	0,230
32	40	58x1/6"	97	67	38	0,330
40	48	65x1/6"	112	81	45	0,520
50	58	78x1/6"	127	95	55	0,660
65	76	95x1/6"	148	112	73	1,140
80	90	110x1/4"	168	127	87	1,500
100	110	130x1/4"	190	146	107	2,400

liner w. hose nozzle DIN (232)



DN	d4	d6	l2	l3	Schl. LW	weight (kg)
10	15	22.5	50	31	13	0,045
15	21	28.5	60	40	19	0,060
20	26	36	70	54	25	0,130
25	32	44	80	64	30	0,190
32	40	50	90	67	38	0,270
40	48	56	105	81	45	0,420
50	58	68.5	120	95	55	0,580
65	76	86	140	112	73	1,080
80	90	100	160	127	87	1,320
100	110	121	180	146	107	2,130

hose nozzle, weld end, DIN (238)



DN	d2	d4	d12	l3	Schl. LW	weight (kg)
10	10	15	13	33	13	0,020
15	16	21	19	43	19	0,030
20	20	26	24	52	25	0,080
25	26	32	30	58	30	0,090
32	32	40	38	65	38	0,110
40	38	48	45	79	45	0,260
50	50	58	55	92	55	0,340
65	66	76	73	108	73	0,660
80	81	90	87	123	87	0,800
100	100	110	107	136	107	1,000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 122.04.110.0017	○ 122.04.210.0017	○ 122.04.120.0017	○ 122.04.220.0017
15	● 122.06.110.0017	● 122.06.210.0017	● 122.06.120.0017	● 122.06.220.0017
20	● 122.07.110.0017	● 122.07.210.0017	● 122.07.120.0017	● 122.07.220.0017
25	● 122.08.110.0017	● 122.08.210.0017	● 122.08.120.0017	● 122.08.220.0017
32	● 122.09.110.0017	● 122.09.210.0017	● 122.09.120.0017	● 122.09.220.0017
40	● 122.10.110.0017	● 122.10.210.0017	● 122.10.120.0017	● 122.10.220.0017
50	● 122.11.110.0017	● 122.11.210.0017	● 122.11.120.0017	● 122.11.220.0017
65	● 122.12.110.0017	● 122.12.210.0017	○ 122.12.120.0017	○ 122.12.220.0017
80	● 122.14.110.0017	● 122.14.210.0017	○ 122.14.120.0017	○ 122.14.220.0017
100	● 122.15.110.0017	● 122.15.210.0017	○ 122.15.120.0017	○ 122.15.220.0017

other male types on demand

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	316 L polished Ident number
10	○ 126.04.110.0001	○ 126.04.120.0001
15	○ 126.06.110.0001	● 126.06.120.0001
20	○ 126.07.110.0001	● 126.07.120.0001
25	● 126.08.110.0001	○ 126.08.120.0001
32	● 126.09.110.0001	○ 126.09.120.0001
40	● 126.10.110.0001	○ 126.10.120.0001
50	● 126.11.110.0001	○ 126.11.120.0001
65	● 126.12.110.0001	○ 126.12.120.0001
80	○ 126.14.110.0001	○ 126.14.120.0001
100	○ 126.15.110.0001	○ 126.15.120.0001

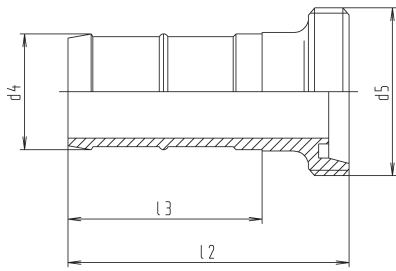
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	316 L polished Ident number
10	● 126.04.110.0000	● 126.04.120.0000
15	● 126.06.110.0000	● 126.06.120.0000
20	● 126.07.110.0000	● 126.07.120.0000
25	● 126.08.110.0000	● 126.08.120.0000
32	● 126.09.110.0000	● 126.09.120.0000
40	● 126.10.110.0000	● 126.10.120.0000
50	● 126.11.110.0000	○ 126.11.120.0000
65	● 126.12.110.0000	○ 126.12.120.0000
80	● 126.14.110.0000	○ 126.14.120.0000
100	○ 126.15.110.0000	○ 126.15.120.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

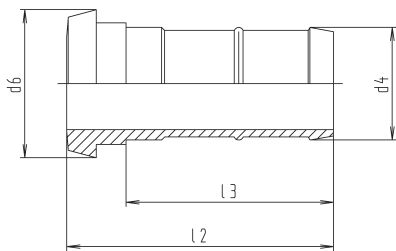
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 226.04.110.0006	○ 226.04.210.0006	○ 226.04.120.0006	○ 226.04.220.0006
15	● 226.06.110.0006	● 226.06.210.0006	● 226.06.120.0006	● 226.06.220.0006
20	● 226.07.110.0006	● 226.07.210.0006	● 226.07.120.0006	● 226.07.220.0006
25	● 226.08.110.0006	● 226.08.210.0006	● 226.08.120.0006	● 226.08.220.0006
32	● 226.09.110.0006	● 226.09.210.0006	● 226.09.120.0006	● 226.09.220.0006
40	● 226.10.110.0006	● 226.10.210.0006	● 226.10.120.0006	● 226.10.220.0006
50	● 226.11.110.0006	● 226.11.210.0006	● 226.11.120.0006	● 226.11.220.0006
65	○ 226.12.110.0006	○ 226.12.210.0006	● 226.12.120.0006	● 226.12.220.0006
80	○ 226.14.110.0006	○ 226.14.210.0006	○ 226.14.120.0006	○ 226.14.220.0006
100	○ 226.15.110.0006	○ 226.15.210.0006	○ 226.15.120.0006	○ 226.15.220.0006

male hose spout DIN 11851 - brewery type



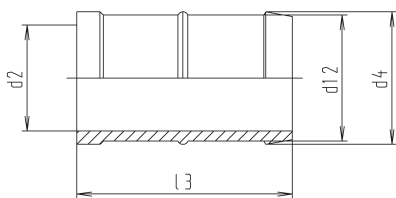
DN	d4	d5	l2	l3	Schl. LW	weight (kg)
25	30	52x1/6"	87	63	28	0,240
32	38	58x1/6"	97	70	35	0,330
40	43	65x1/6"	112	84	40	0,570
50	53	78x1/6"	127	97	50	0,650
65	68	95x1/6"	148	113	65	1,450
80	83	110x1/4"	172	132	80	1,500
100	103	130x1/4"	190	141	100	2,150

liner w. hose nozzle brewery type (236)



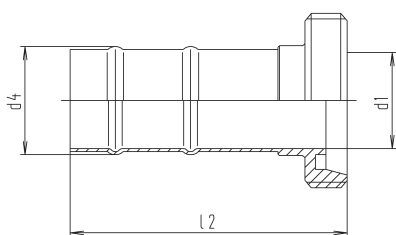
DN	d4	d6	l2	l3	Schl. LW	weight (kg)
25	30	44	80	63	28	0,180
32	38	50	90	70	35	0,300
40	43	56	105	84	40	0,510
50	53	68.5	120	97	50	0,560
65	68	86	140	113	65	1,000
80	83	100	164	132	80	1,300
100	103	121	180	141	100	2,050

hose nozzle, weld end, brewery type (238A)



DN	d2	d4	d12	l3	Schl. LW	weight (kg)
25	24	30	28	58	28	0,090
32	31	38	36	65	35	0,130
40	32	43	40	79	40	0,260
50	45	53	50	92	50	0,340
65	60	68	65	108	65	0,660
80	74	83	80	127	80	0,800
100	93	103	100	136	100	1,000

male hose spout DIN 11851 - light



DN	d1	d4	l2	weight (kg)
15	16	19.5	67	0,070
20	20	23.5	69	0,110
25	26	29.5	82	0,140
32	32	36	92	0,200
40	38	42	102	0,230
50	50	54	113	0,320
65	66	72	125	0,670
80	81	88	135	0,980
100	100	107	150	1,070

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 126.08.110.0005	● 126.08.210.0005	○ 126.08.120.0005	○ 126.08.220.0005
32	● 126.09.110.0005	● 126.09.210.0005	○ 126.09.120.0005	○ 126.09.220.0005
40	● 126.10.110.0005	● 126.10.210.0005	○ 126.10.120.0005	○ 126.10.220.0005
50	● 126.11.110.0005	● 126.11.210.0005	○ 126.11.120.0005	○ 126.11.220.0005
65	● 126.12.110.0005	● 126.12.210.0005	○ 126.12.120.0005	○ 126.12.220.0005
80	○ 126.14.110.0005	○ 126.14.210.0005	○ 126.14.120.0005	○ 126.14.220.0005
100	○ 126.15.110.0005	○ 126.15.210.0005	○ 126.15.120.0005	○ 126.15.220.0005

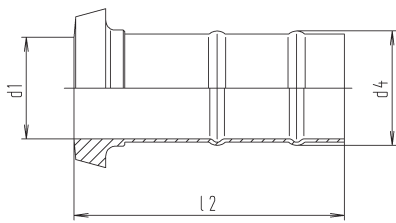
DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 126.08.110.0004	● 126.08.210.0004	○ 126.08.120.0004	○ 126.08.220.0004
32	● 126.09.110.0004	● 126.09.210.0004	○ 126.09.120.0004	○ 126.09.220.0004
40	● 126.10.110.0004	● 126.10.210.0004	○ 126.10.120.0004	○ 126.10.220.0004
50	● 126.11.110.0004	● 126.11.210.0004	○ 126.11.120.0004	○ 126.11.220.0004
65	● 126.12.110.0004	● 126.12.210.0004	○ 126.12.120.0004	○ 126.12.220.0004
80	● 126.14.110.0004	● 126.14.210.0004	○ 126.14.120.0004	○ 126.14.220.0004
100	● 126.15.110.0004	● 126.15.210.0004	○ 126.15.120.0004	○ 126.15.220.0004

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 226.08.110.0007	○ 226.08.210.0007	○ 226.08.120.0007	○ 226.08.220.0007
32	○ 226.09.110.0007	○ 226.09.210.0007	○ 226.09.120.0007	○ 226.09.220.0007
40	○ 226.10.110.0007	○ 226.10.210.0007	○ 226.10.120.0007	○ 226.10.220.0007
50	○ 226.11.110.0007	○ 226.11.210.0007	○ 226.11.120.0007	○ 226.11.220.0007
65	○ 226.12.110.0007	○ 226.12.210.0007	○ 226.12.120.0007	○ 226.12.220.0007
80	● 226.14.110.0007	○ 226.14.210.0007	○ 226.14.120.0007	○ 226.14.220.0007
100	○ 226.15.110.0007	○ 226.15.210.0007	○ 226.15.120.0007	○ 226.15.220.0007

DN	304 polished Ident number	316 L polished Ident number
15	● 126.06.110.0002	○ 126.06.120.0002
20	● 126.07.110.0002	○ 126.07.120.0002
25	○ 126.08.110.0002	○ 126.08.120.0002
32	● 126.09.110.0002	○ 126.09.120.0002
40	● 126.10.110.0002	○ 126.10.120.0002
50	● 126.11.110.0002	○ 126.11.120.0002
65	○ 126.12.110.0002	○ 126.12.120.0002
80	○ 126.14.110.0002	○ 126.14.120.0002
100	○ 126.15.110.0002	○ 126.15.120.0002

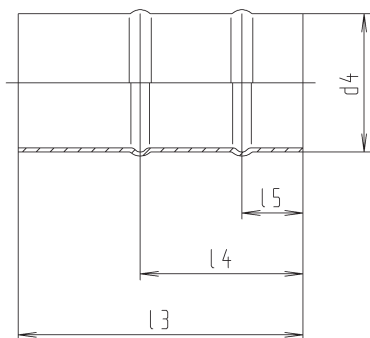
matt finish on demand

liner w. hose nozzle tube type (235)



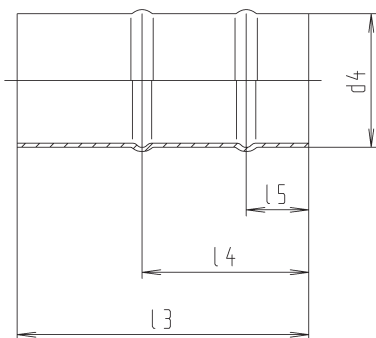
DN	d1	d4	l2	weight (kg)
15	16	19.5	63	0,040
20	20	23.5	63	0,060
25	26	29.5	75	0,110
32	32	36	85	0,140
40	38	42	95	0,170
50	50	54	106	0,250
65	66	72	117	0,580
80	81	88	127	0,660
100	100	107	140	0,940

hose nozzle, weld end, DIN - light (239)



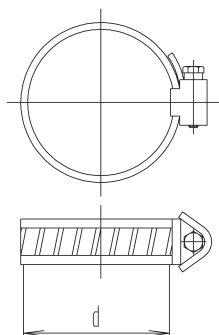
DN	d4	l3	l4	l5	weight (kg)
15	18	50	32	12	0,020
20	22	50	32	12	0,025
25	28	60	35	15	0,040
32	34	70	40	15	0,060
40	40	80	45	20	0,090
50	52	90	45	20	0,130
65	70	100	50	25	0,420
80	85	110	55	25	0,500
100	104	120	65	25	0,580

hose nozzle, weld end, inch OD - light (239Z)



DN	d4	l3	l4	l5	weight (kg)
1"	25.4	60	35	15	0,040
1¼"	31.8	70	40	15	0,060
1½"	38.1	80	45	20	0,090
2"	50.8	90	45	20	0,130
2½"	63.5	100	50	25	0,420
3"	76.1	110	55	25	0,500
4"	101.6	120	65	25	0,580

hose clip (239S)



DN	weight (kg)
12 - 20	0,020
16 - 25	0,020
20 - 32	0,020
25 - 40	0,020
32 - 50	0,030
40 - 60	0,030
50 - 70	0,030
60 - 80	0,040
70 - 90	0,040
80 - 100	0,040
90 - 110	0,040
100 - 120	0,050

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	316 L polished Ident number
15	● 126.06.110.0003	○ 126.06.120.0003
20	● 126.07.110.0003	○ 126.07.120.0003
25	● 126.08.110.0003	● 126.08.120.0003
32	● 126.09.110.0003	● 126.09.120.0003
40	● 126.10.110.0003	● 126.10.120.0003
50	● 126.11.110.0003	● 126.11.120.0003
65	● 126.12.110.0003	● 126.12.120.0003
80	○ 126.14.110.0003	○ 126.14.120.0003
100	○ 126.15.110.0003	○ 126.15.120.0003
matt finish on demand		

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
15	○ 226.06.110.0008	○ 226.06.210.0008	○ 226.06.120.0008	○ 226.06.220.0008
20	○ 226.07.110.0008	○ 226.07.210.0008	○ 226.07.120.0008	○ 226.07.220.0008
25	○ 226.08.110.0008	○ 226.08.210.0008	○ 226.08.120.0008	○ 226.08.220.0008
32	○ 226.09.110.0008	○ 226.09.210.0008	○ 226.09.120.0008	○ 226.09.220.0008
40	○ 226.10.110.0008	○ 226.10.210.0008	○ 226.10.120.0008	○ 226.10.220.0008
50	○ 226.11.110.0008	○ 226.11.210.0008	○ 226.11.120.0008	○ 226.11.220.0008
65	○ 226.12.110.0008	○ 226.12.210.0008	○ 226.12.120.0008	○ 226.12.220.0008
80	○ 226.14.110.0008	○ 226.14.210.0008	○ 226.14.120.0008	○ 226.14.220.0008
100	○ 226.15.110.0008	○ 226.15.210.0008	○ 226.15.120.0008	○ 226.15.220.0008

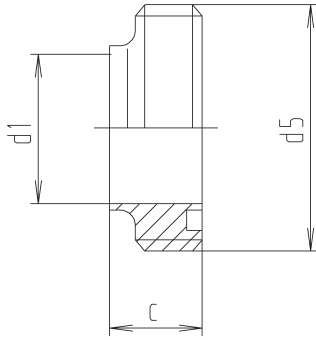
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	316 L polished Ident number
1"	○ 226.08.110.0009	○ 226.08.120.0009
1¼"	○ 226.09.110.0009	○ 226.09.120.0009
1½"	○ 226.10.110.0009	○ 226.10.120.0009
2"	○ 226.11.110.0009	○ 226.11.120.0009
2½"	○ 226.12.110.0009	○ 226.12.120.0009
3"	○ 226.13.110.0009	○ 226.13.120.0009
4"	○ 226.15.110.0009	○ 226.15.120.0009
matt finish on demand		

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

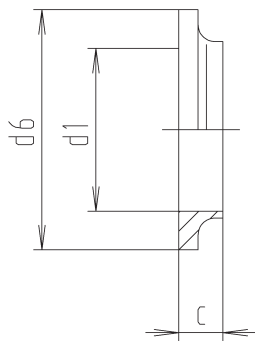
DN	304 Ident number
12 - 20	● 899.00.610.0500
16 - 25	● 899.00.610.0501
20 - 32	● 899.00.610.0502
25 - 40	● 899.00.610.0503
32 - 50	● 899.00.610.0504
40 - 60	● 899.00.610.0505
50 - 70	● 899.00.610.0506
60 - 80	● 899.00.610.0507
70 - 90	● 899.00.610.0508
80 - 100	● 899.00.610.0509
90 - 110	● 899.00.610.0510
100 - 120	● 899.00.610.0511

welding male SMS (275)



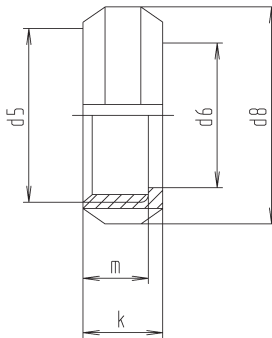
DN	c	d1	d5	weight (kg)
25	15	22.5	40x1/6"	0,050
38	20	35.5	60x1/6"	0,170
51	20	48.5	70x1/6"	0,180
63,5	24	60.5	85x1/6"	0,350
76	24	73.1	98x1/6"	0,440
101,6	30	97.6	132x1/6"	1,310

welding liner, SMS (276)



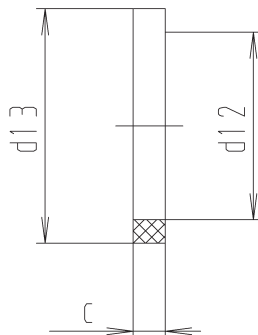
DN	c	d1	d6	weight (kg)
25	8	22.5	35.5	0,020
38	9	35.5	55	0,040
51	9	48.5	65	0,060
63,5	9	60.5	80	0,070
76	10	73.1	93	0,120
101,6	12	97.6	127	0,284

nut SMS (272)



DN	d5	d6	d8	k	m	weight (kg)
25	40x1/6"	32	51	20	16	0,110
38	60x1/6"	48	74	25	21	0,260
51	70x1/6"	60.5	84	26	21	0,310
63,5	85x1/6"	74	100	30	25	0,410
76	98x1/6"	87	114	32	26	0,570
101,6	132x1/6"	117	154	32	26	1,200

gasket SMS (273)



DN	c	d12	d13	weight (kg)
25	5.5	25	32	0,002
38	5.5	38	48	0,003
51	5.5	51	61	0,006
63,5	5.5	63.5	73.5	0,007
76	5.5	76	86	0,010
101,6	5.5	101.6	113.5	0,020

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	316 L polished Ident number
25	● 121.08.110.0019	● 121.08.120.0019
38	● 121.10.110.0019	● 121.10.120.0019
51	● 121.11.110.0019	● 121.11.120.0019
63,5	● 121.12.110.0019	● 121.12.120.0019
76	● 121.13.110.0019	● 121.13.120.0019
101,6	● 121.15.110.0019	● 121.15.120.0019

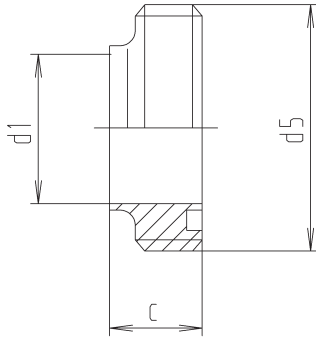
DN	304 L polished Ident number	316 L polished Ident number
25	● 122.08.110.0019	● 122.08.120.0019
38	● 122.10.110.0019	● 122.10.120.0019
51	● 122.11.110.0019	● 122.11.120.0019
63,5	● 122.12.110.0019	● 122.12.120.0019
76	● 122.13.110.0019	● 122.13.120.0019
101,6	● 122.15.110.0019	● 122.15.120.0019

DN	304 polished Ident number	316 L polished Ident number
25	● 124.08.110.0018	○ 124.08.120.0018
38	● 124.10.110.0018	○ 124.10.120.0018
51	● 124.11.110.0018	○ 124.11.120.0018
63,5	● 124.12.110.0018	○ 124.12.120.0018
76	● 124.13.110.0018	○ 124.13.120.0018
101,6	● 124.15.110.0018	○ 124.15.120.0018

DN	EPDM Ident number	NBR Ident number	PTFE Ident number	316 L matt Ident number
25	● 825.08.6E0.0000	● 825.08.6N0.0000	○ 825.08.6T0.0000	○ 825.08.6V0.0000
38	● 825.10.6E0.0000	● 825.10.6N0.0000	○ 825.10.6T0.0000	○ 825.10.6V0.0000
51	● 825.11.6E0.0000	● 825.11.6N0.0000	○ 825.11.6T0.0000	○ 825.11.6V0.0000
63,5	● 825.12.6E0.0000	● 825.12.6N0.0000	○ 825.12.6T0.0000	○ 825.12.6V0.0000
76	● 825.13.6E0.0000	● 825.13.6N0.0000	○ 825.13.6T0.0000	○ 825.13.6V0.0000
101,6	● 825.15.6E0.0000	● 825.15.6N0.0000	○ 825.15.6T0.0000	○ 825.15.6V0.0000

welding male SMS (275)

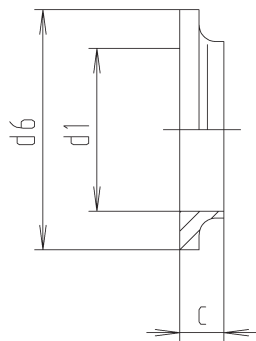
nocapius



DN	c	d1	d5	weight (kg)
25	15	22.5	40x1/6"	0,050
38	20	35.5	60x1/6"	0,170
51	20	48.5	70x1/6"	0,180
63,5	24	60.5	85x1/6"	0,350
76	24	73.1	98x1/6"	0,440
101,6	30	97.6	132x1/6"	1,310

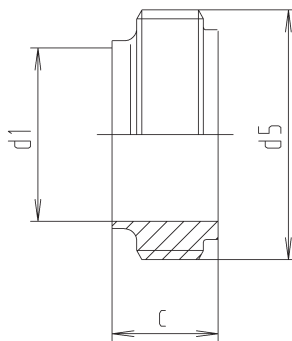
welding liner, SMS (276)

nocapius



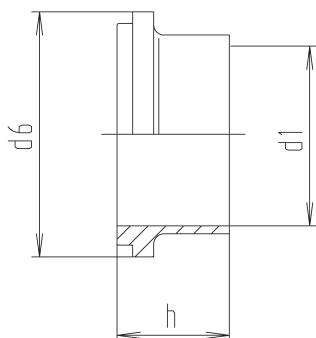
DN	c	d1	d6	weight (kg)
25	8	22.5	35.5	0,020
38	9	35.5	55	0,040
51	9	48.5	65	0,060
63,5	9	60.5	80	0,070
76	10	73.1	93	0,120
101,6	12	97.6	127	0,284

welding male IDF acc. to ISO 2853 (280A)



DN	c	d1	d5	weight (kg)
1"	21.5	22.2	1"	0,040
1½"	21.5	34.9	1½"	0,080
2"	21.5	47.6	2"	0,110
2½"	21.5	60.3	2½"	0,180
3"	21.5	73	3"	0,250

welding liner, IDF acc. to ISO 2853 (281A)



DN	d1	d6	h	weight (kg)
1"	22.2	33.8	21.5	0,030
1½"	34.9	47	21.5	0,050
2"	47.6	60.5	21.5	0,080
2½"	60.3	74	21.5	0,120
3"	73	87.5	21.5	0,180

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
25	○ 121.08.120.0319
38	○ 121.10.120.0319
51	○ 121.11.120.0319
63,5	○ 121.12.120.0319
76	○ 121.13.120.0319
101,6	○ 121.15.120.0319

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
25	○ 122.08.120.0319
38	○ 122.10.120.0319
51	○ 122.11.120.0319
63,5	○ 122.12.120.0319
76	○ 122.13.120.0319
101,6	○ 122.15.120.0319

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
1"	● 121.08.120.0026
1½"	● 121.10.120.0026
2"	● 121.11.120.0026
2½"	● 121.12.120.0026
3"	● 121.13.120.0026

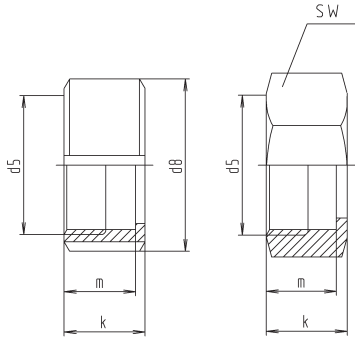
IDF 4825 on demand

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
1"	● 122.08.120.0026
1½"	● 122.10.120.0026
2"	● 122.11.120.0026
2½"	● 122.12.120.0026
3"	● 122.13.120.0026

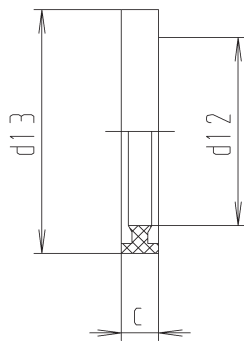
IDF 4825 on demand

nut IDF acc. ISO 2853 (282)



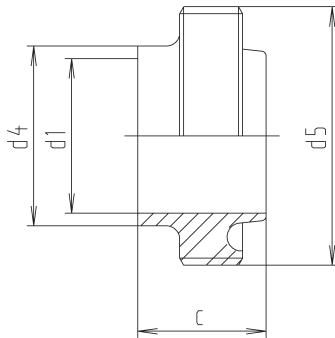
DN	d5	d8	k	m	SW	weight (kg)
1"	1"	50	30	26.5	50	0,150
1½"	1 1/2"	65	30	26.5	60	0,240
2"	2"	78	30	26.5	75	0,300
2½"	2 1/2"	95	30	26.5	90	0,380
3"	3"	108	30	26.5	105	0,510

gasket IDF acc. ISO 2853



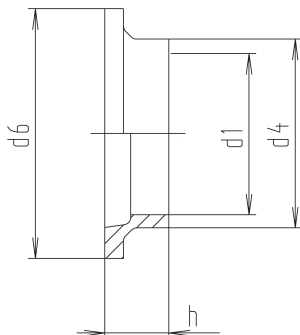
DN	c	d12	d13	weight (kg)
1"	7	25.5	32.5	0,002
1½"	7	38	46	0,004
2"	7	51	59.5	0,006
2½"	7	63	73	0,008
3"	7	75.5	86.5	0,010

welding male RJT (265)



DN	c	d1	d4	d5	weight (kg)
1"	22.2	22.2	25.6	45,5x1/8"	0,130
1½"	22.2	34.9	38.3	58,2x1/8"	0,150
2"	22.2	47.6	51	72,5x1/6"	0,210
2½"	22.2	60.3	63.7	85,2x1/6"	0,260
3"	22.2	73	76.4	97x1/6"	0,330

welding liner, RJT (266)



DN	d1	d4	d6	h	weight (kg)
1"	22.2	25.6	41.3	12.7	0,040
1½"	34.9	38.3	54	12.7	0,050
2"	47.6	51	66.7	12.7	0,060
2½"	60.3	63.7	79.6	12.7	0,080
3"	73	76.4	92.1	12.7	0,100

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	hexagonal nut, 304 polished Ident number
1"	○ 124.08.110.0020	○ 895.08.110.0000
1½"	● 124.10.110.0020	○ 895.10.110.0000
2"	○ 124.11.110.0020	○ 895.11.110.0000
2½"	○ 124.12.110.0020	○ 895.12.110.0000
3"	● 124.13.110.0020	○ 895.13.110.0000
IDF 4825 on demand		

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number
1"	● 825.08.6N0.0001
1½"	● 825.10.6N0.0001
2"	● 825.11.6N0.0001
2½"	● 825.12.6N0.0001
3"	● 825.13.6N0.0001
IDF 4825 on demand	

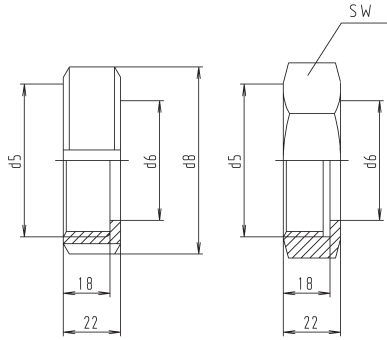
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
1"	● 121.08.120.0044
1½"	○ 121.10.120.0044
2"	○ 121.11.120.0044
2½"	○ 121.12.120.0044
3"	○ 121.13.120.0044

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

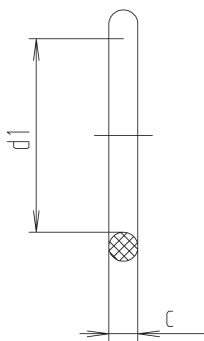
DN	316 L polished Ident number
1"	● 122.08.120.0044
1½"	● 122.10.120.0044
2"	● 122.11.120.0044
2½"	● 122.12.120.0044
3"	● 122.13.120.0044

nut RJT (267)



DN	d5	d6	d8	SW	weight (kg)
1"	46x1/8"	33.5	57	50.8	0,150
1½"	58,7x1/8"	46	72	65	0,200
2"	73x1/6"	59	86	79.4	0,280
2½"	85,7x1/6"	71.5	100	92.1	0,340
3"	98,4x1/6"	84.5	114	104.8	0,410

gasket RJT (268)



DN	c	d1	weight (kg)
1"	6.6	26.7	0,004
1½"	6.6	39.4	0,005
2"	6.6	52.1	0,008
2½"	6.6	64.8	0,010
3"	6.6	77.5	0,012

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	hexagonal nut, 304 polished Ident number
1"	○ 124.08.110.0021	○ 124.08.110.0031
1½"	● 124.10.110.0021	○ 124.10.110.0031
2"	● 124.11.110.0021	○ 124.11.110.0031
2½"	● 124.12.110.0021	○ 124.12.110.0031
3"	○ 124.13.110.0021	○ 124.13.110.0031

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

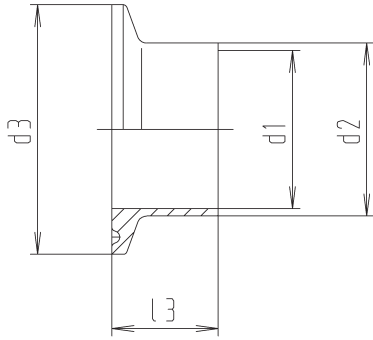
DN	NBR Ident number
1"	○ 827.08.6N0.0006
1½"	○ 827.10.6N0.0006
2"	○ 827.11.6N0.0006
2½"	○ 827.12.6N0.0006
3"	○ 827.13.6N0.0006

2.2 Piping connections

2.2.2 Clamps

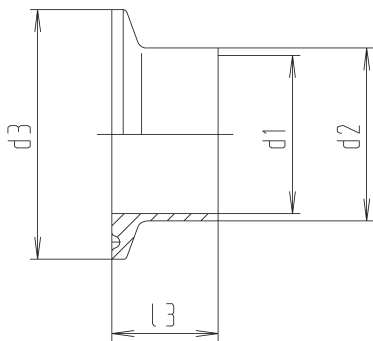
	page
Welding clamp ferrule DIN 32676-S (for tubing according to DIN 11850, line 2) (285N).....	2.2.2-1
Welding clamp ferrule DIN 32676-S (for tubing according to DIN 11850, line 2) (285N).....	2.2.2-1
Welding clamp ferrule short, DIN 32676-S (for tubing according to DIN 11850, line 2)	2.2.2-1
Clamp ferrule with notch, aseptic, DIN 11864-6-A (for tubing according to DIN 11850, line 2).....	2.2.2-1
Clamp ferrule with slot, aseptic DIN 11864 (for tubing according to DIN 11850, line 2)	2.2.2-3
Welding clamp ferrule, inch (285Z).....	2.2.2-3
Welding clamp ferrule, inch (285Z).....	2.2.2-3
Welding clamp ferrule short, inch (284Z).....	2.2.2-3
Welding clamp ferrule, inch OD (for tubing according to ASME BPE) (285Z).....	2.2.2-5
Welding clamp ferrule, ISO (285I).....	2.2.2-5
Clamp ferrule, blind (285b).....	2.2.2-5
Clamp, screwable, sheet metal type, with bolts (286)	2.2.2-5
Clamp, screwable, heavy type, with bolts	2.2.2-7
Clamp, hinged, sheet metal type (287).....	2.2.2-7
Clamp, hinged, heavy type (287A).....	2.2.2-7
Gasket clamp, DIN (288)	2.2.2-9
Gasket clamp, inch (288Z).....	2.2.2-9

welding clamp ferrule DIN 32676-S (for tub. acc. DIN 11850 line 2) (285N)



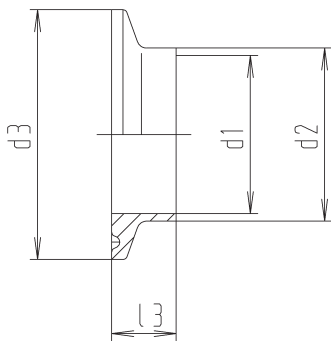
DN	d1	d2	d3	l3	weight (kg)
10	10	13	34	18	27,5
15	16	19	34	18	27,5
20	20	23	34	18	27,5
25	26	29	50,5	21,5	43,5
32	32	35	50,5	21,5	43,5
40	38	41	50,5	21,5	43,5
50	50	53	64	21,5	56,5
65	66	70	91	28	83,5
80	81	85	106	28	97
100	100	104	119	28	110
125	125	129	155	28	146
150	150	154	183	28	174
200	200	204	233,5	28	225

welding clamp ferrule DIN 32676-S (for tub. acc. DIN 11850 line 2) (285N)



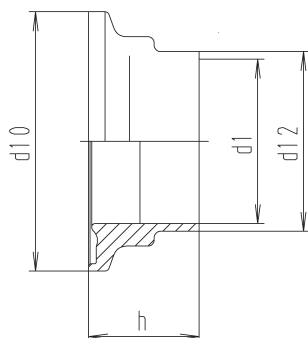
DN	d1	d2	d3	l3	weight (kg)
10	10	13	34	18	0,030
15	16	19	34	18	0,030
20	20	23	34	18	0,030
25	26	29	50,5	21,5	0,070
32	32	35	50,5	21,5	0,060
40	38	41	50,5	21,5	0,050
50	50	53	64	21,5	0,070
65	66	70	91	28	0,190
80	81	85	106	28	0,200
100	100	104	119	28	0,220
125	125	129	155	28	0,540
150	150	154	183	28	0,650
200	200	204	233,5	28	1,000

welding clamp ferrule, short, DIN 32676-S (for tub. acc. DIN 11850 line 2)



DN	d1	d2	d3	l3	weight (kg)
25	26	29	50,5	13	0,060
32	32	35	50,5	13	0,048
40	38	41	50,5	13	0,035
50	50	53	64	13	0,052
65	66	70	91	13	0,138
80	81	85	106	13	0,165
100	100	104	119	13	0,148

clamp ferrule with notch, aseptic, DIN 11864-6-A (for tub. acc. DIN 11850 line 2)



DN	d1	d10	d12	h	weight (kg)
10	10	34	13	38	0,030
15	16	34	19	38	0,030
20	20	50,5	23	38	0,080
25	26	50,5	29	38,5	0,100
32	32	50,5	35	44	0,120
40	38	64	41	44	0,170
50	50	77,5	53	44,5	0,185
65	66	91	70	56,5	0,200
80	81	106	85	58,5	0,225
100	100	130	104	60	0,250

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 123.04.110.0001	● 123.04.210.0001	● 123.04.120.0001	● 123.04.220.0001
15	● 123.06.110.0001	● 123.06.210.0001	● 123.06.120.0001	● 123.06.220.0001
20	● 123.07.110.0001	● 123.07.210.0001	● 123.07.120.0001	● 123.07.220.0001
25	● 123.08.110.0001	● 123.08.210.0001	● 123.08.120.0001	● 123.08.220.0001
32	● 123.09.110.0001	○ 123.09.210.0001	● 123.09.120.0001	○ 123.09.220.0001
40	● 123.10.110.0001	● 123.10.210.0001	● 123.10.120.0001	● 123.10.220.0001
50	● 123.11.110.0001	● 123.11.210.0001	● 123.11.120.0001	● 123.11.220.0001
65	● 123.12.110.0001	● 123.12.210.0001	● 123.12.120.0001	● 123.12.220.0001
80	● 123.14.110.0001	● 123.14.210.0001	● 123.14.120.0001	● 123.14.220.0001
100	● 123.15.110.0001	● 123.15.210.0001	● 123.15.120.0001	● 123.15.220.0001
125	● 123.16.110.0001	● 123.16.210.0001	● 123.16.120.0001	● 123.16.220.0001
150	● 123.17.110.0001	● 123.17.210.0001	● 123.17.120.0001	● 123.17.220.0001
200	● 123.18.110.0001	○ 123.18.210.0001	○ 123.18.120.0001	○ 123.18.220.0001

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
10	○ 123.04.120.0301
15	○ 123.06.120.0301
20	○ 123.07.120.0301
25	○ 123.08.120.0301
32	○ 123.09.120.0301
40	○ 123.10.120.0301
50	○ 123.11.120.0301
65	○ 123.12.120.0301
80	○ 123.14.120.0301
100	○ 123.15.120.0301
125	○ 123.16.120.0301
150	○ 123.17.120.0301
200	○ 123.18.120.0301

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 123.08.110.0002	● 123.08.210.0002	● 123.08.120.0002	● 123.08.220.0002
32	● 123.09.110.0002	● 123.09.210.0002	● 123.09.120.0002	● 123.09.220.0002
40	● 123.10.110.0002	● 123.10.210.0002	● 123.10.120.0002	● 123.10.220.0002
50	● 123.11.110.0002	● 123.11.210.0002	● 123.11.120.0002	● 123.11.220.0002
65	● 123.12.110.0002	● 123.12.210.0002	● 123.12.120.0002	● 123.12.220.0002
80	● 123.14.110.0002	● 123.14.210.0002	● 123.14.120.0002	● 123.14.220.0002
100	● 123.15.110.0002	● 123.15.210.0002	● 123.15.120.0002	● 123.15.220.0002

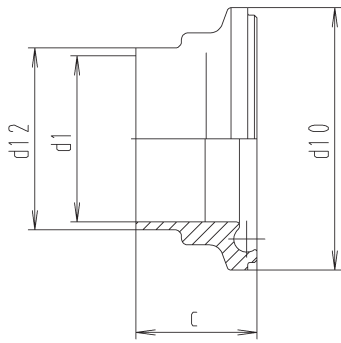
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
10	○ 123.04.120.0006
15	○ 123.06.120.0006
20	○ 123.07.120.0006
25	○ 123.08.120.0006
32	○ 123.09.120.0006
40	○ 123.10.120.0006
50	● 123.11.120.0006
65	○ 123.12.120.0006
80	○ 123.14.120.0006
100	○ 123.15.120.0006

o-ring see union aseptic

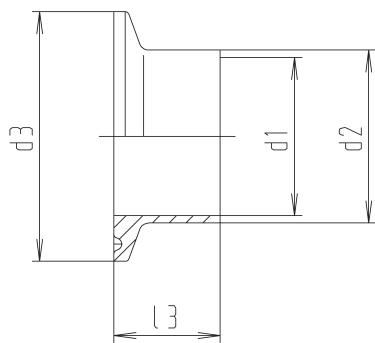
clamp ferrule with slot, aseptic DIN 11864 (for tub. acc. DIN 11850 line 2)

nocapius



DN	c	d1	d10	d12	weight (kg)
10	39.5	10	34	13	0,030
15	39.5	16	34	19	0,030
20	39.5	20	50.5	23	0,080
25	40	26	50.5	29	0,100
32	45.5	32	50.5	35	0,120
40	45.5	38	64	41	0,170
50	46	50	77.5	53	0,185
65	58	66	91	70	0,200
80	60	81	106	85	0,225
100	61.5	100	130	104	0,250

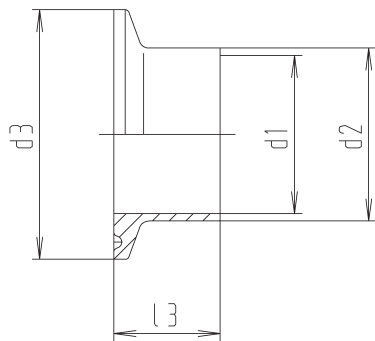
welding clamp ferrule, inch (285Z)



DN	d1	d2	d3	l3	weight (kg)
1"	22.9	25.4	50.5	21.5	0,070
1½"	35.1	38.1	50.5	21.5	0,055
2"	47.8	50.8	64	21.5	0,075
2½"	60.5	63.5	77.5	28	0,111
3"	73.1	76.2	91	28	0,162
4"	97.6	101.6	119	28	0,233

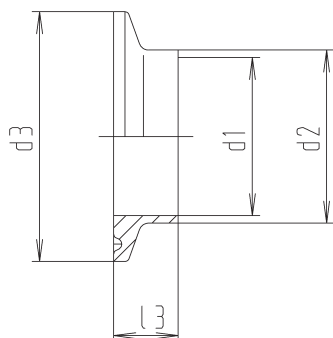
welding clamp ferrule, inch (285Z)

nocapius



DN	d1	d2	d3	l3	weight (kg)
1"	22.9	25.4	50.5	21.5	0,070
1½"	35.1	38.1	50.5	21.5	0,055
2"	47.8	50.8	64	21.5	0,075
2½"	60.5	63.5	77.5	28	0,111
3"	73.1	76.2	91	28	0,162
4"	97.6	101.6	119	28	0,233

welding clamp ferrule, short, inch (284Z)



DN	d1	d2	d3	l3	weight (kg)
1"	22.1	25.4	50.5	13	0,065
1½"	34.8	38.1	50.5	13	0,040
2"	47.5	50.8	64	13	0,056
2½"	60.2	63.5	77.5	13	0,075
3"	72.9	76.2	91	13	0,108
4"	97.4	101.6	119	13	0,163

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
10	○ 123.04.120.0007
15	○ 123.06.120.0007
20	○ 123.07.120.0007
25	○ 123.08.120.0007
32	○ 123.09.120.0007
40	○ 123.10.120.0007
50	● 123.11.120.0007
65	○ 123.12.120.0007
80	○ 123.14.120.0007
100	○ 123.15.120.0007

o-ring see union aseptic

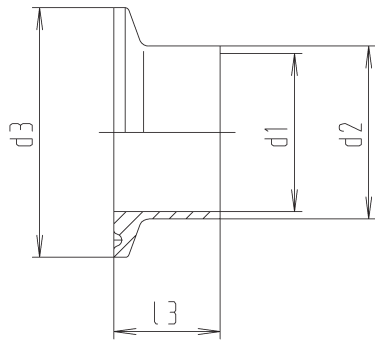
DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	● 123.08.110.0003	● 123.08.210.0003	● 123.08.120.0003	● 123.08.220.0003
1½"	● 123.10.110.0003	● 123.10.210.0003	● 123.10.120.0003	● 123.10.220.0003
2"	● 123.11.110.0003	● 123.11.210.0003	● 123.11.120.0003	● 123.11.220.0003
2½"	● 123.12.110.0003	● 123.12.210.0003	● 123.12.120.0003	● 123.12.220.0003
3"	● 123.13.110.0003	● 123.13.210.0003	● 123.13.120.0003	● 123.13.220.0003
4"	● 123.15.110.0003	● 123.15.210.0003	● 123.15.120.0003	● 123.15.220.0003

DN	316 L polished Ident number
1"	○ 123.08.120.0303
1½"	○ 123.10.120.0303
2"	○ 123.11.120.0303
2½"	○ 123.12.120.0303
3"	○ 123.13.120.0303
4"	○ 123.15.120.0303

DN	304 L polished Ident number	304 L matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	● 123.08.110.0004	● 123.08.210.0004	● 123.08.120.0004	● 123.08.220.0004
1½"	● 123.10.110.0004	● 123.10.210.0004	● 123.10.120.0004	● 123.10.220.0004
2"	● 123.11.110.0004	● 123.11.210.0004	● 123.11.120.0004	● 123.11.220.0004
2½"	● 123.12.110.0004	○ 123.12.210.0004	● 123.12.120.0004	● 123.12.220.0004
3"	● 123.13.110.0004	● 123.13.210.0004	● 123.13.120.0004	● 123.13.220.0004
4"	● 123.15.110.0004	● 123.15.210.0004	● 123.15.120.0004	● 123.15.220.0004

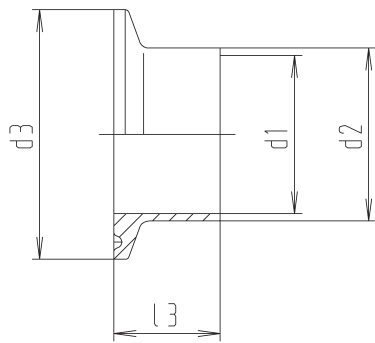
welding clamp ferrule inch OD (for tubing acc. ASME BPE) (285Z)

nocapius



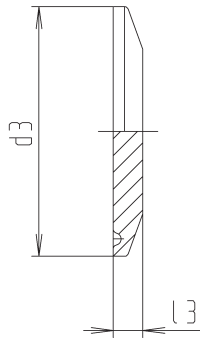
DN	d1	d2	d3	l3	weight (kg)
3/8"	7.75	9.53	25.4	28.6	-
1/2"	9.4	12.7	25.4	28.6	-
3/4"	15.75	19.05	25.4	28.6	-
1"	22.1	25.4	50.5	28.6	-
1 1/2"	34.8	38.1	50.5	28.6	-
2"	47.5	50.8	64	28.6	-
2 1/2"	60.2	63.5	77.5	28.6	-
3"	72.9	76.2	91	28.6	-
4"	97.4	101.6	119	28.6	-

welding clamp ferrule, ISO (285I)



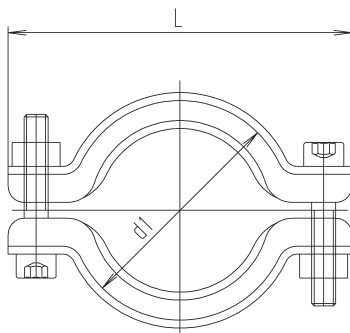
DN	d1	d2	d3	l3	weight (kg)
8	10.3	13.5	34	18	0,030
10	14	17.2	34	18	0,030
15	18.1	21.3	34	18	0,030
20	23.7	26.9	50.5	21.5	0,060
25	29.7	33.7	50.5	21.5	0,070
32	38.4	42.4	50.5	21.5	0,060
40	44.3	48.3	64	21.5	0,050
50	56.3	60.3	77.5	28	0,070
65	72.1	76.1	91	28	0,100
80	84.3	88.9	106	28	0,200
100	109.7	114.3	130	28	0,220

clamp ferrule, blind (285b)



DN	d3	l3	weight (kg)
10 / 20	34	6	0,030
3/8" / 3/4"	25.4	6.5	0,080
1" / 40	50.5	6	0,080
2" / 50	64	6	0,130
2 1/2"	77.5	6	0,200
3" / 65	91	7	0,310
80	106	8	0,470
4" / 100	119	8	0,610
125	155	12	1,480
150	183	12	2,110
200	233.5	15	4,500

clamp, screwable, sheet metal type, w. bolts (286)



DN	d1	l	TC	weight (kg)
1"-1 1/2"	55	86	50.5	0,100
25-40	55	86	50.5	0,100
2"/50	68	100	64	0,130
2 1/2"	81.5	114	77.5	0,150
3"/65	95	130	91	0,170
80	110	145	106	0,190
4"/100	122	158	119	0,200

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number
3/8"	○ 123.04.K70.0067
1/2"	○ 123.06.K70.0067
3/4"	○ 123.07.K70.0067
1"	○ 123.08.K70.0067
1 1/2"	○ 123.10.K70.0067
2"	○ 123.11.K70.0067
2 1/2"	○ 123.12.K70.0067
3"	○ 123.13.K70.0067
4"	○ 123.15.K70.0067

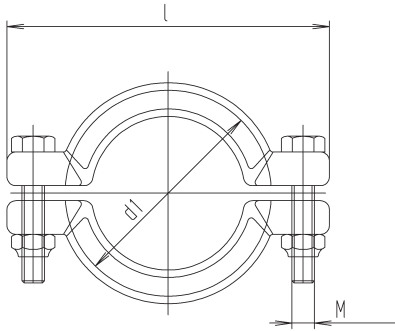
DN	316 L polished Ident number	316 L matt Ident number
8	○ 123.03.120.0005	○ 123.03.220.0005
10	○ 123.04.120.0005	○ 123.04.220.0005
15	○ 123.06.120.0005	○ 123.06.220.0005
20	○ 123.07.120.0005	○ 123.07.220.0005
25	○ 123.08.120.0005	○ 123.08.220.0005
32	○ 123.09.120.0005	○ 123.09.220.0005
40	○ 123.10.120.0005	○ 123.10.220.0005
50	○ 123.11.120.0005	○ 123.11.220.0005
65	○ 123.12.120.0005	○ 123.12.220.0005
80	○ 123.14.120.0005	○ 123.14.220.0005
100	○ 123.15.120.0005	○ 123.15.220.0005

DN	316 L polished Ident number	316 L matt Ident number
10 / 20	● 123.04.120.0008	● 123.04.220.0008
3/8" / 3/4"	○ 123.06.120.0008	○ 123.06.220.0008
1" / 40	● 123.08.120.0008	● 123.08.220.0008
2" / 50	● 123.11.120.0008	● 123.11.220.0008
2 1/2"	● 123.12.120.0008	● 123.12.220.0008
3" / 65	● 123.13.120.0008	● 123.13.220.0008
80	● 123.14.120.0008	● 123.14.220.0008
4" / 100	● 123.15.120.0008	● 123.15.220.0008
125	● 123.16.120.0008	● 123.16.220.0008
150	● 123.17.120.0008	● 123.17.220.0008
200	○ 123.18.120.0008	○ 123.18.220.0008

DN	304 polished Ident number	304 matt Ident number
1"-1 1/2"	● 123.08.110.0020	○ 123.08.210.0020
25-40	● 123.08.110.0020	○ 123.08.210.0020
2"/50	● 123.11.110.0020	● 123.11.210.0020
2 1/2"	● 123.12.110.0020	● 123.12.210.0020
3"/65	● 123.13.110.0020	● 123.13.210.0020
80	● 123.14.110.0020	● 123.14.210.0020
4"/100	● 123.15.110.0020	● 123.15.210.0020

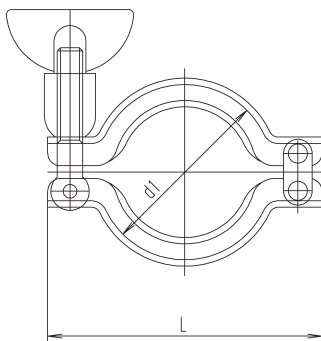
please observe the flange dimension!

clamp, screwable, heavy type, w. bolts



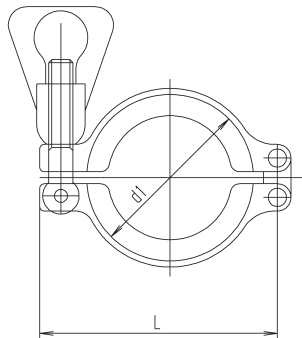
DN	dI	l	M	TC	weight (kg)
10 - 20	37	64	M6	34	0,096
1" - 40	56	94	M8	50	0,170
2"/50	69.5	111	M8	64	0,212
2½"	83	122	M8	77	0,262
3"/65	96.5	134	M8	91	0,318
80	111.5	150	M8	106	0,378
4"/100	124.5	164	M8	119	0,460
4½"	134	MIN	M8	130	0,485
5"	158	MIN	M10	155	0,827
6"	186	MIN	M10	183	0,950

clamp, hinged, sheet metal type (287)



DN	dI	l	TC	weight (kg)
1"-1½"	55	86	50.5	0,130
25-40	55	86	50.5	0,130
2"/50	68	100	64	0,160
2½"	81.5	114	77.5	0,180
3"/65	95	130	91	0,200
80	110	145	106	0,220
4"/100	122.2	158	119	0,230

clamp, hinged, heavy type (287A)



DN	dI	l	TC	weight (kg)
1/2" - 3/4"	28.1	50.5	25,4	0,180
10/20	38.5	62.3	34	0,220
1"-1½"	55.0	80	50,5	0,280
25 - 40	55.0	80	50,5	0,280
2"/50	68.5	94.8	64	0,300
2 1/2"	81.9	109.2	77,5	0,400
3"/65	95.5	122.8	91	0,450
80	110.7	138.2	106	0,515
4"/100	121.9	150.2	119	0,560
125	159.0	203	155	1,640
150	187.0	231	183	1,840
200	273.5	283	233,5	2,240

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

1.4308	
DN	Ident number
10 - 20	○ 123.04.110.0043
1" - 40	○ 123.08.110.0043
2"/50	○ 123.11.110.0043
2½"	○ 123.12.110.0043
3"/65	○ 123.13.110.0043
80	○ 123.14.110.0043
4"/100	○ 123.15.110.0043
4½"	○ 123.15.110.0044
5"	○ 123.16.110.0044
6"	○ 123.17.110.0044

please observe the flange dimension!

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished		304 matt	
	Ident number		Ident number	
1"-1½"	● 123.08.110.0030	● 123.08.210.0030		
25-40	● 123.08.110.0030	● 123.08.210.0030		
2"/50	● 123.11.110.0030	● 123.11.210.0030		
2½"	● 123.12.110.0030	● 123.12.210.0030		
3"/65	● 123.13.110.0030	● 123.13.210.0030		
80	● 123.14.110.0030	● 123.14.210.0030		
4"/100	● 123.15.110.0030	● 123.15.210.0030		

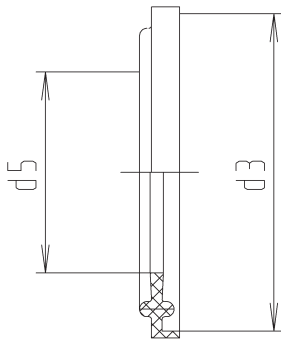
please observe the flange dimension!

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

1.4308	
DN	Ident number
1/2" - 3/4"	○ 123.06.110.0042
10/20	● 123.04.110.0042
1"-11/2"	● 123.08.110.0042
25 - 40	● 123.08.110.0042
2"/50	● 123.11.110.0042
2 1/2"	● 123.12.110.0042
3"/65	● 123.13.110.0042
80	● 123.14.110.0042
4"/100	● 123.15.110.0042
125	● 123.16.110.0042
150	● 123.17.110.0042
200	● 123.18.110.0042

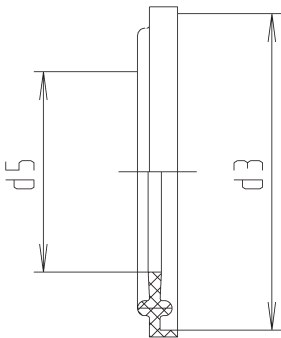
please observe the flange dimension!

gasket clamp, DIN (288)



DN	d3	d5	weight (kg)
10	34	10.2	0,002
15	34	16.2	0,003
20	34	20.2	0,004
25	50.5	26.2	0,005
32	50.5	32.2	0,005
40	50.5	38.2	0,006
50	64	50.2	0,007
65	91	66.2	0,013
80	106	81.2	0,014
100	119	100.2	0,015
125	155	125.2	0,024
150	183	150.2	0,031
200	233.5	200.2	0,059

gasket clamp, inch (288Z)



DN	d3	d5	weight (kg)
1/2"	21.7	10.6	0,001
3/4"	21.7	16	0,001
1"	50.5	23.1	0,006
1 1/2"	50.5	35.3	0,004
2"	64	48	0,006
2 1/2"	77.5	60.7	0,007
3"	91	72.3	0,009
4"	119	97.8	0,013

Rohr nach DIN 11850 Reihe 2

DN	EPDM Ident number	NBR Ident number	MVQ Ident number	316 L matt Ident number
10	● 825.04.6E0.0006	● 825.04.6N0.0006	● 825.04.6S0.0006	○ 825.04.6T0.0006
15	● 825.06.6E0.0006	● 825.06.6N0.0006	● 825.06.6S0.0006	○ 825.06.6T0.0006
20	● 825.07.6E0.0006	● 825.07.6N0.0006	● 825.07.6S0.0006	○ 825.07.6T0.0006
25	● 825.08.6E0.0006	● 825.08.6N0.0006	● 825.08.6S0.0006	○ 825.08.6T0.0006
32	○ 825.09.6E0.0006	○ 825.09.6N0.0006	○ 825.09.6S0.0006	○ 825.09.6T0.0006
40	● 825.10.6E0.0006	● 825.10.6N0.0006	● 825.10.6S0.0006	○ 825.10.6T0.0006
50	● 825.11.6E0.0006	● 825.11.6N0.0006	● 825.11.6S0.0006	○ 825.11.6T0.0006
65	● 825.12.6E0.0006	● 825.12.6N0.0006	● 825.12.6S0.0006	○ 825.12.6T0.0006
80	● 825.14.6E0.0006	● 825.14.6N0.0006	● 825.14.6S0.0006	○ 825.14.6T0.0006
100	● 825.15.6E0.0006	● 825.15.6N0.0006	● 825.15.6S0.0006	○ 825.15.6T0.0006
125	● 825.16.6E0.0006	● 825.16.6N0.0006	● 825.16.6S0.0006	○ 825.16.6T0.0006
150	● 825.17.6E0.0006	● 825.17.6N0.0006	● 825.17.6S0.0006	○ 825.17.6T0.0006
200	● 825.18.6E0.0006	○ 825.18.6N0.0006	○ 825.18.6S0.0006	○ 825.18.6T0.0006

corresponds to food and drug-guideline (FDA)

Rohr nach DIN 11850 Reihe 2

DN	FPM Ident number
10	● 825.04.6V0.0006
15	● 825.06.6V0.0006
20	● 825.07.6V0.0006
25	● 825.08.6V0.0006
32	○ 825.09.6V0.0006
40	● 825.10.6V0.0006
50	● 825.11.6V0.0006
65	● 825.12.6V0.0006
80	● 825.14.6V0.0006
100	● 825.15.6V0.0006
125	● 825.16.6V0.0006
150	● 825.17.6V0.0006
200	○ 825.18.6V0.0006

corresponds to food and drug-guideline (FDA)

Rohr nach DIN 11850 Reihe 2

DN	EPDM Ident number	NBR Ident number	MVQ Ident number	316 L matt Ident number
1/2"	○ 825.06.6E0.0007	○ 825.06.6N0.0007	○ 825.06.6S0.0007	○ 825.06.6T0.0007
3/4"	● 825.07.6E0.0007	○ 825.07.6N0.0007	○ 825.07.6S0.0007	○ 825.07.6T0.0007
1"	● 825.08.6E0.0007	● 825.08.6N0.0007	● 825.08.6S0.0007	○ 825.08.6T0.0007
1 1/2"	● 825.10.6E0.0007	● 825.10.6N0.0007	● 825.10.6S0.0007	○ 825.10.6T0.0007
2"	● 825.11.6E0.0007	● 825.11.6N0.0007	● 825.11.6S0.0007	○ 825.11.6T0.0007
2 1/2"	● 825.12.6E0.0007	● 825.12.6N0.0007	● 825.12.6S0.0007	○ 825.12.6T0.0007
3"	● 825.13.6E0.0007	● 825.13.6N0.0007	● 825.13.6S0.0007	○ 825.13.6T0.0007
4"	● 825.15.6E0.0007	● 825.15.6N0.0007	● 825.15.6S0.0007	○ 825.15.6T0.0007

corresponds to food and drug-guideline (FDA)

Rohr nach DIN 11850 Reihe 2

DN	FPM Ident number
1/2"	○ 825.06.6V0.0007
3/4"	○ 825.07.6V0.0007
1"	● 825.08.6V0.0007
1 1/2"	● 825.10.6V0.0007
2"	● 825.11.6V0.0007
2 1/2"	● 825.12.6V0.0007
3"	● 825.13.6V0.0007
4"	● 825.15.6V0.0007

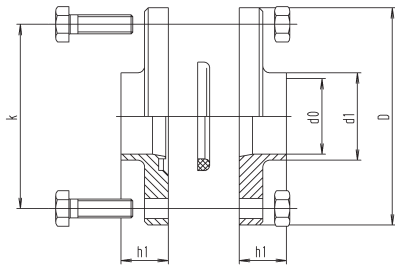
corresponds to food and drug-guideline (FDA)

2.2 Piping connections

2.2.3 Flanges

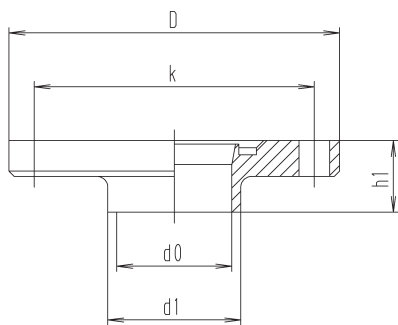
	page
Flange connection Nocado, DIN (for tubing according to DIN 11850, line 2) (245)	2.2.3-1
Flange Nocado, with groove, DIN (for tubing according to DIN 11850, line 2) (245N)	2.2.3-1
Flange Nocado, without groove, DIN (for tubing according to DIN 11850, line 2) (245G)	2.2.3-1
Flange connection Nocado, O-form, complete, DIN	2.2.3-1
Flange Nocado O-form, with groove, DIN	2.2.3-3
O-ring for flanges, type Nocado	2.2.3-3
Flange Nocado, blind, without groove, DIN (245B)	2.2.3-3
Flange connection, aseptic DIN 11864 (for tubing according to DIN 11850, line 2) (249)	2.2.3-3
Flange with notch, aseptic, DIN 11864 (for tubing according to DIN 11850, line 2)	2.2.3-5
Flange with slot, aseptic, DIN 11864 (for tubing according to DIN 11850, line 2)	2.2.3-5
Flange, flat, short PN 10 (form A, for tubing according to DIN 11850, line 2) (244G)	2.2.3-5
Flange PN 10 with raised face, short form B2 (for tubing according to DIN 11850, line 2) (244N)	2.2.3-5
Flange, slip-on type, PN 10, form A (for tubing according to DIN 11850 line 2)	2.2.3-7
Welding neck flange, type 11, PN 16, EN 1092-1, form B1 (for tub. according to DIN 11850 line 2)	2.2.3-7
Flange connection Nocado, DIN (welding bevel similar to DIN 11850) (245)	2.2.3-7
Flange Nocado, with groove, DIN (welding bevel similar to DIN 11850) (245N)	2.2.3-7
Flange Nocado, without groove DIN (welding bevel similar to DIN 11850) (245G)	2.2.3-9
Lapped joint stub ends, PN 10 (for tubing similar to DIN 11850) (242A)	2.2.3-9
Lapped joint stub ends, heavy duty, PN 10 (for tubing similar to DIN 11850)	2.2.3-9
Lapped flange, PN 10, EN 1092-1 type 2 (243)	2.2.3-9
Flange, flat, short, PN 10, form A (for tubing similar DIN 11850) (244G)	2.2.3-11
Flange PN 10 with raised face, short, form B2 (for tubing similar DIN 11850) (244)	2.2.3-11
Flange, slip-on type, PN 10 en 1092-1, form A (for tubing similar DIN 11850)	2.2.3-11
Flange, blind, PN 10, EN1092-1, type 05, form A (248)	2.2.3-11
Flange Nocado, inch (246)	2.2.3-13
Flange Nocado, with groove, inch (246G)	2.2.3-13
Flange Nocado, without groove inch (246G)	2.2.3-13
Welding neck flange (type 11, PN 16, EN 1092-1, form B1, ISO)	2.2.3-13
Gasket for welding neck, PN 10 (243P)	2.2.3-15
Gasket for flange PN 10 (EN 1092-1) (247P)	2.2.3-15
Gasket for flange (according to DIN 2690)	2.2.3-15
Hexagonal bolt (DIN 933-A2)	2.2.3-15
Washer (DIN 125-A2)	2.2.3-17
Hexagonal nut (DIN 934-A4)	2.2.3-17

flange connection nocado, DIN (for tub. acc. DIN 11850 line 2) (245)



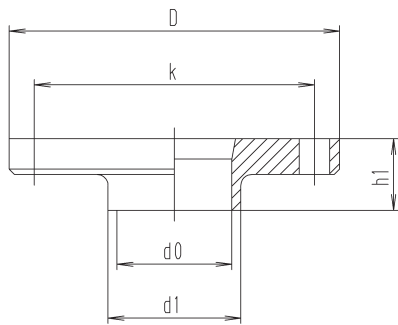
DN	d	d0	d1	h1	k	weight (kg)
10	62	10	13	20	44	0,400
15	68	16	19	20	50	0,520
20	75	20	23	20	59	0,580
25	87	26	29	20	73	0,780
32	92	32	35	20	78	0,920
40	97	38	41	25	82.5	0,940
50	110	50	53	25	95.5	1,180
65	127	66	70	25	112.5	1,500
80	142	81	85	30	127.5	2,560
100	162	100	104	30	147.5	3,540
125	200	125	129	40	180	5,740
150	230	150	154	45	210	7,690

flange nocado, with groove, DIN (for tub. acc. DIN 11850 line 2) (245N)



DN	d	d0	d1	h1	k	weight (kg)
10	62	10	13	20	44	0,200
15	68	16	19	20	50	0,260
20	75	20	23	20	59	0,290
25	87	26	29	20	73	0,390
32	92	32	35	20	78	0,460
40	97	38	41	25	82.5	0,470
50	110	50	53	25	95.5	0,590
65	127	66	70	25	112.5	0,750
80	142	81	85	30	127.5	1,280
100	162	100	104	30	147.5	1,720
125	200	125	129	40	180	2,870
150	230	150	154	45	210	3,850

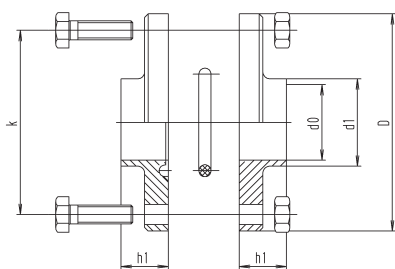
flange nocado, without groove, DIN (for tub. acc. DIN 11850 line 2) (245G)



DN	d	d0	d1	h1	k	weight (kg)
10	62	10	13	20	44	0,200
15	68	16	19	20	50	0,260
20	75	20	23	20	59	0,290
25	87	26	29	20	73	0,390
32	92	32	35	20	78	0,460
40	97	38	41	25	82.5	0,470
50	110	50	53	25	95.5	0,590
65	127	66	70	25	112.5	0,750
80	142	81	85	30	127.5	1,280
100	162	100	104	30	147.5	1,720
125	200	125	129	40	180	2,870
150	230	150	154	45	210	3,850

flange connection nocado o-form complete DIN

nocapius



DN	d	d0	d1	h1	k	weight (kg)
25	87	26	29	20	73	0,780
32	92	32	35	20	78	0,920
40	97	38	41	25	82.5	0,940
50	110	50	53	25	95.5	1,180
65	127	66	70	25	112.5	1,500
80	142	81	85	30	127.5	2,560
100	162	100	104	30	147.5	3,540
125	200	125	129	40	180	5,740
150	230	150	154	45	210	7,690

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 127.04.11N.0012	○ 127.04.21N.0012	○ 127.04.12N.0012	○ 127.04.22N.0012
15	○ 127.06.11N.0012	○ 127.06.21N.0012	○ 127.06.12N.0012	○ 127.06.22N.0012
20	○ 127.07.11N.0012	○ 127.07.21N.0012	○ 127.07.12N.0012	○ 127.07.22N.0012
25	○ 127.08.11N.0012	○ 127.08.21N.0012	○ 127.08.12N.0012	○ 127.08.22N.0012
32	○ 127.09.11N.0012	○ 127.09.21N.0012	○ 127.09.12N.0012	○ 127.09.22N.0012
40	○ 127.10.11N.0012	○ 127.10.21N.0012	○ 127.10.12N.0012	○ 127.10.22N.0012
50	○ 127.11.11N.0012	○ 127.11.21N.0012	○ 127.11.12N.0012	○ 127.11.22N.0012
65	○ 127.12.11N.0012	○ 127.12.21N.0012	○ 127.12.12N.0012	○ 127.12.22N.0012
80	○ 127.14.11N.0012	○ 127.14.21N.0012	○ 127.14.12N.0012	○ 127.14.22N.0012
100	○ 127.15.11N.0012	○ 127.15.21N.0012	○ 127.15.12N.0012	○ 127.15.22N.0012
125	○ 127.16.11N.0012	○ 127.16.21N.0012	○ 127.16.12N.0012	○ 127.16.22N.0012
150	○ 127.17.11N.0012	○ 127.17.21N.0012	○ 127.17.12N.0012	○ 127.17.22N.0012

standard gasket NBR considered

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 125.04.110.0029	○ 125.04.210.0029	○ 125.04.120.0029	○ 125.04.220.0029
15	○ 125.06.110.0029	○ 125.06.210.0029	○ 125.06.120.0029	○ 125.06.220.0029
20	○ 125.07.110.0029	○ 125.07.210.0029	○ 125.07.120.0029	○ 125.07.220.0029
25	○ 125.08.110.0029	○ 125.08.210.0029	○ 125.08.120.0029	○ 125.08.220.0029
32	○ 125.09.110.0029	○ 125.09.210.0029	○ 125.09.120.0029	○ 125.09.220.0029
40	○ 125.10.110.0029	○ 125.10.210.0029	○ 125.10.120.0029	○ 125.10.220.0029
50	○ 125.11.110.0029	○ 125.11.210.0029	○ 125.11.120.0029	○ 125.11.220.0029
65	○ 125.12.110.0029	○ 125.12.210.0029	○ 125.12.120.0029	○ 125.12.220.0029
80	○ 125.14.110.0029	○ 125.14.210.0029	○ 125.14.120.0029	○ 125.14.220.0029
100	○ 125.15.110.0029	○ 125.15.210.0029	○ 125.15.120.0029	○ 125.15.220.0029
125	○ 125.16.110.0029	○ 125.16.210.0029	○ 125.16.120.0029	○ 125.16.220.0029
150	○ 125.17.110.0029	○ 125.17.210.0029	○ 125.17.120.0029	○ 125.17.220.0029

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 125.04.110.0028	○ 125.04.210.0028	○ 125.04.120.0028	○ 125.04.220.0028
15	○ 125.06.110.0028	○ 125.06.210.0028	○ 125.06.120.0028	○ 125.06.220.0028
20	○ 125.07.110.0028	○ 125.07.210.0028	○ 125.07.120.0028	○ 125.07.220.0028
25	○ 125.08.110.0028	○ 125.08.210.0028	○ 125.08.120.0028	○ 125.08.220.0028
32	○ 125.09.110.0028	○ 125.09.210.0028	○ 125.09.120.0028	○ 125.09.220.0028
40	○ 125.10.110.0028	○ 125.10.210.0028	○ 125.10.120.0028	○ 125.10.220.0028
50	○ 125.11.110.0028	○ 125.11.210.0028	○ 125.11.120.0028	○ 125.11.220.0028
65	○ 125.12.110.0028	○ 125.12.210.0028	○ 125.12.120.0028	○ 125.12.220.0028
80	○ 125.14.110.0028	○ 125.14.210.0028	○ 125.14.120.0028	○ 125.14.220.0028
100	○ 125.15.110.0028	○ 125.15.210.0028	○ 125.15.120.0028	○ 125.15.220.0028
125	○ 125.16.110.0028	○ 125.16.210.0028	○ 125.16.120.0028	○ 125.16.220.0028
150	○ 125.17.110.0028	○ 125.17.210.0028	○ 125.17.120.0028	○ 125.17.220.0028

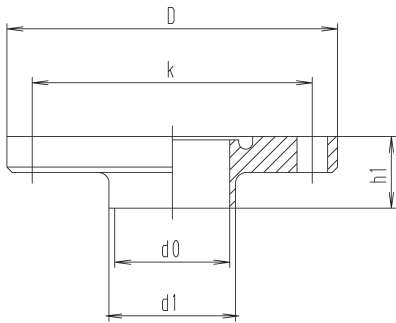
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (511IN)

DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 127.08.11E.0020	○ 127.08.21E.0020	○ 127.08.12E.0020	○ 127.08.22E.0020
32	○ 127.09.11E.0020	○ 127.09.21E.0020	○ 127.09.12E.0020	○ 127.09.22E.0020
40	○ 127.10.11E.0020	○ 127.10.21E.0020	○ 127.10.12E.0020	○ 127.10.22E.0020
50	○ 127.11.11E.0020	○ 127.11.21E.0020	○ 127.11.12E.0020	○ 127.11.22E.0020
65	○ 127.12.11E.0020	○ 127.12.21E.0020	○ 127.12.12E.0020	○ 127.12.22E.0020
80	○ 127.14.11E.0020	○ 127.14.21E.0020	○ 127.14.12E.0020	○ 127.14.22E.0020
100	○ 127.15.11E.0020	○ 127.15.21E.0020	○ 127.15.12E.0020	○ 127.15.22E.0020
125	○ 127.16.11E.0020	○ 127.16.21E.0020	○ 127.16.12E.0020	○ 127.16.22E.0020
150	○ 127.17.11E.0020	○ 127.17.21E.0020	○ 127.17.12E.0020	○ 127.17.22E.0020

standard gasket EPDM considered

flange nocado o-form with groove DIN

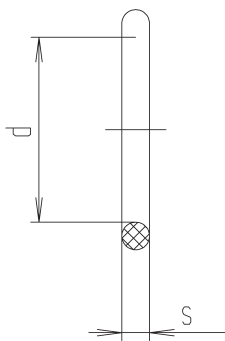
nocapius



DN	d	d0	d1	h1	k	weight (kg)
25	87	26	29	20	73	0,390
32	92	32	35	20	78	0,460
40	97	38	41	25	82.5	0,470
50	110	50	53	25	95.5	0,590
65	127	66	70	25	112.5	0,750
80	142	81	85	30	127.5	1,280
100	162	100	104	30	147.5	1,770
125	200	125	129	40	180	2,870
150	230	150	154	45	210	3,850

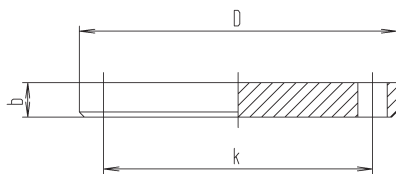
o-ring for flanges type nocado

nocapius



DN	d	s	weight (kg)
25	28	3.5	0,002
32	34	5	0,003
40	40	5	0,003
50	52	5	0,004
65	68	5	0,005
80	83	5	0,006
100	102	5	0,008
125	127	5	0,010
150	149.2	5.7	0,020

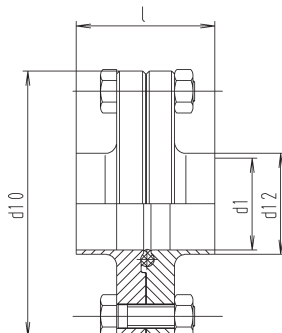
flange nocado, blind, without groove, DIN (245B)



DN	b	d	k	weight (kg)
10	10	62	44	0,220
15	10	68	50	0,280
20	10	75	59	0,340
25	10	87	73	0,450
32	10	92	78	0,500
40	10	97	82.5	0,560
50	10	110	95.5	0,740
65	10	127	112.5	0,960
80	16	142	127.5	1,920
100	16	162	147.5	2,510
125	16	200	180	3,950
150	16	230	210	5,220

flange connection, aseptic DIN 11864 (for tub. acc. DIN 11850 line 2) (249)

nocapius



DN	d1	d10	d12	l	weight (kg)
10	10	54	13	48	0,390
15	16	59	19	48	0,452
20	20	64	23	48	0,500
25	26	70	29	48	0,589
32	32	76	35	48	0,870
40	38	82	41	48	0,900
50	50	94	53	48	1,080
65	66	113	70	48	1,188
80	81	133	85	52	1,927
100	100	159	104	52	2,895

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 125.08.110.0035	○ 125.08.210.0035	○ 125.08.120.0035	○ 125.08.220.0035
32	○ 125.09.110.0035	○ 125.09.210.0035	○ 125.09.120.0035	○ 125.09.220.0035
40	○ 125.10.110.0035	○ 125.10.210.0035	○ 125.10.120.0035	○ 125.10.220.0035
50	○ 125.11.110.0035	○ 125.11.210.0035	○ 125.11.120.0035	○ 125.11.220.0035
65	○ 125.12.110.0035	○ 125.12.210.0035	○ 125.12.120.0035	○ 125.12.220.0035
80	○ 125.14.110.0035	○ 125.14.210.0035	○ 125.14.120.0035	○ 125.14.220.0035
100	○ 125.15.110.0035	○ 125.15.210.0035	○ 125.15.120.0035	○ 125.15.220.0035
125	○ 125.16.110.0035	○ 125.16.210.0035	○ 125.16.120.0035	○ 125.16.220.0035
150	○ 125.17.110.0035	○ 125.17.210.0035	○ 125.17.120.0035	○ 125.17.220.0035

companion flange see Nocado flange DIN without groove

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM Ident number	HNBR Ident number	FPM Ident number	316 L matt
25	● 827.08.6E0.0237	○ 827.08.6HN.0237	● 827.08.6V0.0237	
32	● 827.09.6E0.0237	○ 827.09.6HN.0237	● 827.09.6V0.0237	
40	● 827.10.6E0.0237	○ 827.10.6HN.0237	● 827.10.6V0.0237	
50	● 827.11.6E0.0237	○ 827.11.6HN.0237	● 827.11.6V0.0237	
65	● 827.12.6E0.0237	● 827.12.6HN.0237	● 827.12.6V0.0237	
80	● 827.14.6E0.0237	● 827.14.6HN.0237	● 827.14.6V0.0237	
100	● 827.15.6E0.0237	● 827.15.6HN.0237	● 827.15.6V0.0237	
125	● 827.16.6E0.0237	● 827.16.6HN.0237	● 827.16.6V0.0237	
150	○ 827.00.6E0.0032	○ 827.00.6HN.0284	○ 827.00.6V0.0328	

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 125.04.110.0017	○ 125.04.210.0017	○ 125.04.120.0017	○ 125.04.220.0017
15	○ 125.06.110.0017	○ 125.06.210.0017	○ 125.06.120.0017	○ 125.06.220.0017
20	○ 125.07.110.0017	○ 125.07.210.0017	○ 125.07.120.0017	○ 125.07.220.0017
25	○ 125.08.110.0017	○ 125.08.210.0017	○ 125.08.120.0017	○ 125.08.220.0017
32	○ 125.09.110.0017	○ 125.09.210.0017	○ 125.09.120.0017	○ 125.09.220.0017
40	○ 125.10.110.0017	○ 125.10.210.0017	○ 125.10.120.0017	○ 125.10.220.0017
50	○ 125.11.110.0017	○ 125.11.210.0017	○ 125.11.120.0017	○ 125.11.220.0017
65	○ 125.12.110.0017	○ 125.12.210.0017	○ 125.12.120.0017	○ 125.12.220.0017
80	○ 125.14.110.0017	○ 125.14.210.0017	○ 125.14.120.0017	○ 125.14.220.0017
100	○ 125.15.110.0017	○ 125.15.210.0017	○ 125.15.120.0017	○ 125.15.220.0017
125	○ 125.16.110.0017	○ 125.16.210.0017	○ 125.16.120.0017	○ 125.16.220.0017
150	○ 125.17.110.0017	○ 125.17.210.0017	○ 125.17.120.0017	○ 125.17.220.0017

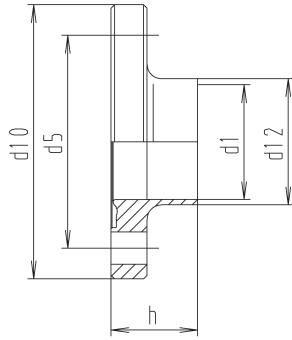
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L / EPDM polished Ident number
10	○ 127.04.12E.0010
15	○ 127.06.12E.0010
20	○ 127.07.12E.0010
25	○ 127.08.12E.0010
32	○ 127.09.12E.0010
40	○ 127.10.12E.0010
50	○ 127.11.12E.0010
65	○ 127.12.12E.0010
80	○ 127.14.12E.0010
100	○ 127.15.12E.0010

standard gasket EPDM considered

flange with notch, aseptic, DIN 11864 (for tub. acc. DIN 11850 line 2)

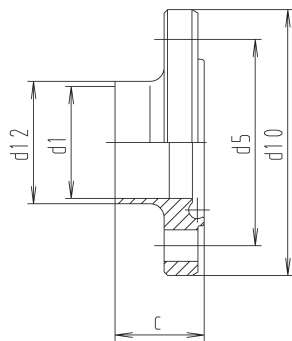
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DN	d1	d5	d10	d12	h	weight (kg)
10	10	37	54	13	24	0,158
15	16	42	59	19	24	0,170
20	20	47	64	23	24	0,200
25	26	53	70	29	24	0,240
32	32	59	76	35	24	0,300
40	38	65	82	41	24	0,318
50	50	77	94	53	24	0,400
65	66	95	113	70	24	0,460
80	81	112	133	85	26	0,700
100	100	137	159	104	26	1,400

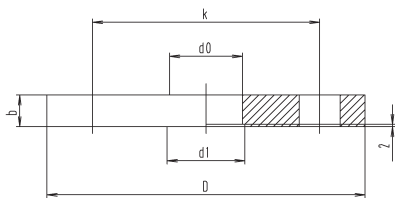
flange with slot, aseptic, DIN 11864 (for tubing acc. DIN 11850 line 2)

nocapius



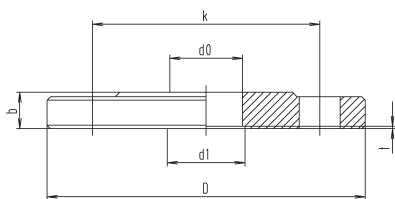
DN	c	d1	d5	d10	d12	weight (kg)
10	25.5	10	37	54	13	0,158
15	25.5	16	42	59	19	0,170
20	25.5	20	47	64	23	0,200
25	25.5	26	53	70	29	0,240
32	25.5	32	59	76	35	0,300
40	25.5	38	65	82	41	0,318
50	25.5	50	77	94	53	0,400
65	25.5	66	95	113	70	0,460
80	27.5	81	112	133	85	0,700
100	27.5	100	137	159	104	1,400

flange, flat, short PN 10, form A (for tub. acc. DIN 11850 line 2) (244G)



DN	b	d	d0	d1	k	weight (kg)
10	11	90	10	13.2	60	0,500
15	11	95	16	19.2	65	0,600
20	13	105	20	23.2	75	0,850
25	13	115	26	29.2	85	1,110
32	13	140	32	35.2	100	1,600
40	13	150	38	41.2	110	1,800
50	15	165	50	53.2	125	2,300
65	15	185	66	70.3	145	2,880
80	15	200	81	85.3	160	3,200
100	15	220	100	104.3	180	4,000
125	17	250	125	129.5	210	5,000
150	17	285	150	154.5	240	6,700
200	21	340	200	204.5	295	9,000
250	23	395	250	254.5	350	11,900

flange PN 10 with raised face, short form B2 (for tub. acc. DIN 11850 line 2) (244N)



DN	b	d	d0	d1	k	t	weight (kg)
10	14	90	10	13.2	60	1	0,540
15	14	95	16	19.2	65	1	0,610
20	16	105	20	23.2	75	1	0,900
25	16	115	26	29.2	85	1	1,070
32	16	140	32	35.2	100	1	1,270
40	16	150	38	41.2	110	1	1,710
50	18	165	50	53.2	125	1	2,350
65	18	185	66	70.3	145	1	2,850
80	20	200	81	85.3	160	1	3,400
100	20	220	100	104.3	180	1	4,030
125	22	250	125	129.5	210	3	6,350
150	22	285	150	154.5	240	3	7,950
200	24	340	200	205	295	3	10,450
250	26	395	250	255	350	3	16,100

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
10	● 125.04.120.0022
15	● 125.06.120.0022
20	○ 125.07.120.0022
25	● 125.08.120.0022
32	● 125.09.120.0022
40	● 125.10.120.0022
50	● 125.11.120.0022
65	● 125.12.120.0022
80	● 125.14.120.0022
100	● 125.15.120.0022

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
10	● 125.04.120.0023
15	● 125.06.120.0023
20	○ 125.07.120.0023
25	● 125.08.120.0023
32	● 125.09.120.0023
40	● 125.10.120.0023
50	● 125.11.120.0023
65	● 125.12.120.0023
80	● 125.14.120.0023
100	● 125.15.120.0023

o-ring see

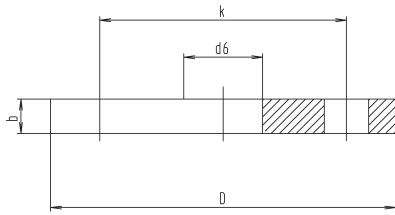
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 matt Ident number	316 L matt Ident number
10	○ 125.04.210.0032	○ 125.04.220.0032
15	○ 125.06.210.0032	○ 125.06.220.0032
20	○ 125.07.210.0032	○ 125.07.220.0032
25	○ 125.08.210.0032	○ 125.08.220.0032
32	○ 125.09.210.0032	○ 125.09.220.0032
40	○ 125.10.210.0032	○ 125.10.220.0032
50	○ 125.11.210.0032	○ 125.11.220.0032
65	● 125.12.210.0019	● 125.12.220.0019
80	● 125.14.210.0019	● 125.14.220.0019
100	● 125.15.210.0019	● 125.15.220.0019
125	● 125.16.210.0019	● 125.16.220.0019
150	● 125.17.210.0019	● 125.17.220.0019
200	● 125.18.210.0019	● 125.18.220.0019
250	○ 125.19.210.0019	○ 125.19.220.0019

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

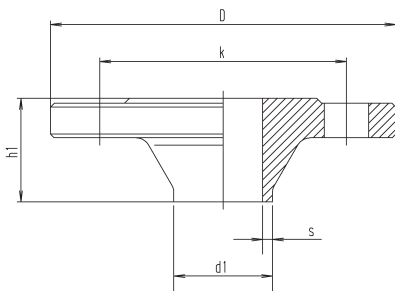
DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 125.04.110.0009	○ 125.04.210.0009	○ 125.04.120.0009	○ 125.04.220.0009
15	○ 125.06.110.0009	○ 125.06.210.0009	○ 125.06.120.0009	○ 125.06.220.0009
20	○ 125.07.110.0009	○ 125.07.210.0009	○ 125.07.120.0009	○ 125.07.220.0009
25	○ 125.08.110.0009	○ 125.08.210.0009	○ 125.08.120.0009	○ 125.08.220.0009
32	○ 125.09.110.0009	○ 125.09.210.0009	○ 125.09.120.0009	○ 125.09.220.0009
40	○ 125.10.110.0009	○ 125.10.210.0009	○ 125.10.120.0009	○ 125.10.220.0009
50	○ 125.11.110.0009	○ 125.11.210.0009	○ 125.11.120.0009	○ 125.11.220.0009
65	● 125.12.110.0000	● 125.12.210.0000	● 125.12.120.0000	● 125.12.220.0000
80	● 125.14.110.0000	● 125.14.210.0000	● 125.14.120.0000	● 125.14.220.0000
100	● 125.15.110.0000	● 125.15.210.0000	● 125.15.120.0000	● 125.15.220.0000
125	● 125.16.110.0000	● 125.16.210.0000	○ 125.16.120.0000	○ 125.16.220.0000
150	● 125.17.110.0000	● 125.17.210.0000	○ 125.17.120.0000	○ 125.17.220.0000
200	○ 125.18.110.0000	○ 125.18.210.0000	○ 125.18.120.0000	○ 125.18.220.0000
250	○ 125.19.110.0000	○ 125.19.210.0000	○ 125.19.120.0000	○ 125.19.220.0000

flange, slip-on type, PN 10, form A (for tubing acc. DIN 11850 line 2)



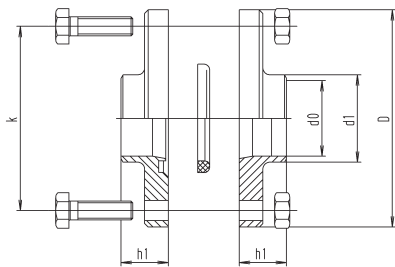
DN	b	d	d6	k	weight (kg)
10	14	90	13.2	60	0,605
15	14	95	19.2	65	0,670
20	16	105	23.2	75	0,940
25	16	115	29.2	85	1,110
32	18	140	35.2	100	1,620
40	18	150	41.2	110	1,860
50	19	165	53.2	125	2,470
65	20	185	70.3	145	3,000
80	20	200	85.3	160	3,790
100	22	220	104.3	180	4,030
125	22	250	129.5	210	5,460
150	24	285	154.5	240	6,570
200	24	340	204.5	295	9,310
250	26	395	254.5	350	11,900

welding neck flange, type II, PN 16, EN 1092-1, form BI (for tub. acc. DIN 11850 line 2)



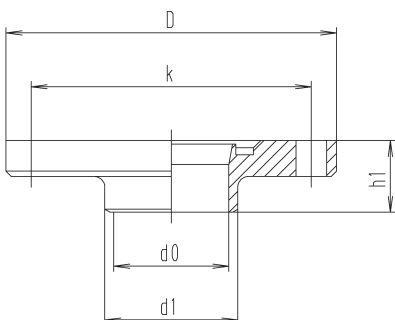
DN	d	dl	hl	k	s	weight (kg)
10	90	13	35	60	1.5	0,580
15	95	19	38	65	1.5	0,650
20	105	23	40	75	1.5	0,950
25	115	29	40	85	1.5	1,140
32	140	35	42	100	1.5	1,690
40	150	41	45	110	1.5	1,860
50	165	53	45	125	1.5	2,530
65	185	70	45	145	2	3,060
80	200	85	50	160	2	3,700
100	220	104	52	180	2	4,620
125	250	129	55	210	2	6,300
150	285	154	55	240	2	7,750

flange connection nocado, DIN (welding bevel acc. DIN 11850) (245)



DN	d	d0	dl	hl	k	weight (kg)
10	62	10	15	20	44	0,400
15	68	16	21	20	50	0,520
20	75	20	25	20	59	0,580
25	87	26	31	20	73	0,780
32	92	32	37	20	78	0,920
40	97	38	43	25	82.5	0,940
50	110	50	55	25	95.5	1,180
65	127	66	72	25	112.5	1,500
80	142	81	87	30	127.5	2,560
100	162	100	106	30	147.5	3,430
125	200	125	132	40	180	5,740
150	230	150	157	45	210	7,690

flange nocado, with groove, DIN (welding bevel acc. DIN 11850) (245N)



DN	d	d0	dl	hl	k	weight (kg)
10	62	10	15	20	44	0,200
15	68	16	21	20	50	0,260
20	75	20	25	20	59	0,290
25	87	26	31	20	73	0,390
32	92	32	37	20	78	0,460
40	97	38	43	25	82.5	0,470
50	110	50	55	25	95.5	0,590
65	127	66	72	25	112.5	0,750
80	142	81	87	30	127.5	1,280
100	162	100	106	30	147.5	1,720
125	200	125	132	40	180	2,870
150	230	150	157	45	210	3,850

flange, slip-on type, PN 10, form A (for tubing acc. DIN 11850 line 2)

DN	304 L turned Ident number	316 L turned Ident number
10	○ 895.04.610.0198	○ 895.04.620.0198
15	○ 895.06.610.0198	○ 895.06.620.0198
20	○ 895.07.610.0198	○ 895.07.620.0198
25	○ 895.08.610.0198	○ 895.08.620.0198
32	○ 895.09.610.0198	○ 895.09.620.0198
40	○ 895.10.610.0198	○ 895.10.620.0198
50	○ 895.11.610.0198	○ 895.11.620.0198
65	○ 895.12.610.0198	○ 895.12.620.0198
80	○ 895.14.610.0198	○ 895.14.620.0198
100	○ 895.15.610.0198	○ 895.15.620.0198
125	○ 895.16.610.0198	○ 895.16.620.0198
150	○ 895.17.610.0198	○ 895.17.620.0198
200	○ 895.18.610.0198	○ 895.18.620.0198
250	○ 895.19.610.0198	○ 895.19.620.0198

welding neck flange, type 11, PN 16, EN 1092-1, form BI (for tub. acc. DIN 11850 line 2)

DN	304 L turned Ident number	304 matt Ident number
10	○ 895.04.610.0077	○ 895.04.620.0077
15	○ 895.06.610.0077	○ 895.06.620.0077
20	○ 895.07.610.0077	○ 895.07.620.0077
25	○ 895.08.610.0077	○ 895.08.620.0077
32	○ 895.09.610.0077	○ 895.09.620.0077
40	○ 895.10.610.0077	○ 895.10.620.0077
50	○ 895.11.610.0077	○ 895.11.620.0077
65	○ 895.12.610.0077	○ 895.12.620.0077
80	○ 895.14.610.0077	○ 895.14.620.0077
100	○ 895.15.610.0077	○ 895.15.620.0077
125	○ 895.16.610.0077	○ 895.16.620.0077
150	○ 895.17.610.0077	○ 895.17.620.0077

(DIN 2633)

flange connection nocado, DIN (welding bevel acc. DIN 11850) (245)

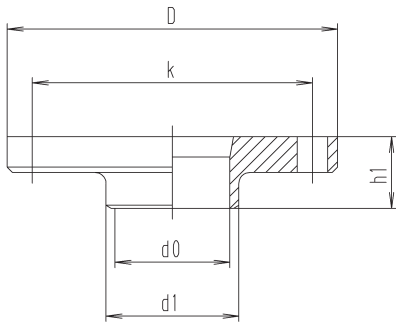
DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	● 127.04.11N.0008	● 127.04.21N.0008	○ 127.04.12N.0008	○ 127.04.22N.0008
15	● 127.06.11N.0008	● 127.06.21N.0008	● 127.06.12N.0008	● 127.06.22N.0008
20	● 127.07.11N.0008	● 127.07.21N.0008	● 127.07.12N.0008	● 127.07.22N.0008
25	● 127.08.11N.0008	● 127.08.21N.0008	● 127.08.12N.0008	● 127.08.22N.0008
32	● 127.09.11N.0008	● 127.09.21N.0008	● 127.09.12N.0008	● 127.09.22N.0008
40	● 127.10.11N.0008	● 127.10.21N.0008	● 127.10.12N.0008	● 127.10.22N.0008
50	● 127.11.11N.0008	● 127.11.21N.0008	● 127.11.12N.0008	● 127.11.22N.0008
65	● 127.12.11N.0008	● 127.12.21N.0008	● 127.12.12N.0008	● 127.12.22N.0008
80	● 127.14.11N.0008	● 127.14.21N.0008	● 127.14.12N.0008	● 127.14.22N.0008
100	● 127.15.11N.0008	● 127.15.21N.0008	● 127.15.12N.0008	● 127.15.22N.0008
125	○ 127.16.11N.0008	○ 127.16.21N.0008	○ 127.16.12N.0008	○ 127.16.22N.0008
150	○ 127.17.11N.0008	○ 127.17.21N.0008	○ 127.17.12N.0008	○ 127.17.22N.0008

standard gasket NBR considered

flange nocado, with groove, DIN (welding bevel acc. DIN 11850) (245N)

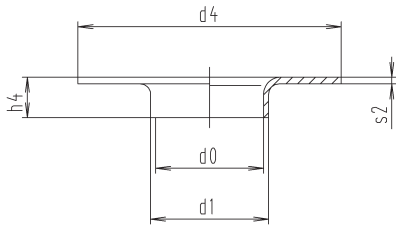
DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 125.04.110.0005	○ 125.04.210.0005	○ 125.04.120.0005	○ 125.04.220.0005
15	○ 125.06.110.0005	○ 125.06.210.0005	○ 125.06.120.0005	○ 125.06.220.0005
20	○ 125.07.110.0005	○ 125.07.210.0005	○ 125.07.120.0005	○ 125.07.220.0005
25	○ 125.08.110.0005	○ 125.08.210.0005	○ 125.08.120.0005	○ 125.08.220.0005
32	○ 125.09.110.0005	○ 125.09.210.0005	○ 125.09.120.0005	○ 125.09.220.0005
40	○ 125.10.110.0005	○ 125.10.210.0005	○ 125.10.120.0005	○ 125.10.220.0005
50	● 125.11.110.0005	○ 125.11.210.0005	○ 125.11.120.0005	○ 125.11.220.0005
65	○ 125.12.110.0005	○ 125.12.210.0005	○ 125.12.120.0005	○ 125.12.220.0005
80	○ 125.14.110.0005	○ 125.14.210.0005	○ 125.14.120.0005	○ 125.14.220.0005
100	○ 125.15.110.0005	○ 125.15.210.0005	○ 125.15.120.0005	○ 125.15.220.0005
125	○ 125.16.110.0005	○ 125.16.210.0005	○ 125.16.120.0005	○ 125.16.220.0005
150	○ 125.17.110.0005	○ 125.17.210.0005	○ 125.17.120.0005	○ 125.17.220.0005

flange nocado without groove DIN (welding bevel acc. DIN 11850) (245G)



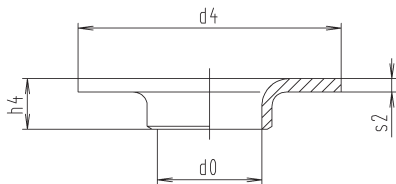
DN	d	d0	d1	h1	k				weight (kg)
10	62	10	15	20	44	10	10	12	0,200
15	68	16	21	20	50	10	16	18	0,260
20	75	20	25	20	59	10	21	22	0,290
25	87	26	31	20	73	10	28	28	0,390
32	92	32	37	20	78	10	34	34	0,460
40	97	38	43	25	82.5	10	40	40	0,470
50	110	50	55	25	95.5	10	52	52	0,590
65	127	66	72	25	112.5	10	69	68	0,750
80	142	81	87	30	127.5	16	83	83	1,280
100	162	100	106	30	147.5	16	102	102	1,720
125	200	125	132	40	180	16	128	128	2,870
150	230	150	157	45	210	16	153	153	3,850

lapped joint stub ends, PN 10 (for tubing similar DIN 11850) (242A)



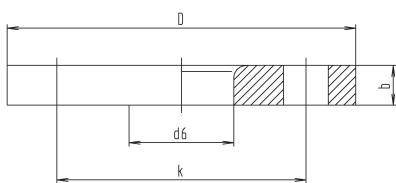
DN	d0	d1	d4	h4	s2	weight (kg)
20	19	22	58	12	2.5	0,040
25	25	28	68	15	2.5	0,060
32	31	34	78	15	2.5	0,070
40	37	40	88	17	2.5	0,090
50	49	52	102	20	2.5	0,120
65	66	70	122	23	3	0,210
80	81	85	138	23	3	0,270
100	100	104	160	28	3	0,330
125	125	129	188	30	3	0,450
150	150	154	212	30	2.5	0,540
200	200	204	270	30	2.5	0,650
250	250	254	320	30	2.5	0,800

lapped joint stub ends, heavy duty, PN 10 (for tubing acc. DIN 11850)



DN	d0	d4	h4	s2	weight (kg)
25	25	68	13.5	3	0,100
32	31	78	15	4	0,120
40	37	88	17	4	0,180
50	49	102	23	4	0,210
65	66	122	23	4	0,290
80	81	138	23	4	0,420
100	100	158	28	4	0,510

lapped flange, PN 10, EN 1092-1 type 2 (243)



DN	b	d	d6	k	weight (kg)
20	16	105	28	75	0,900
25	16	115	36	85	1,070
32	18	140	42	100	1,270
40	18	150	54	110	1,710
50	19	165	65	125	2,350
65	20	185	81	145	2,850
80	20	200	94	160	3,400
100	22	220	113	180	4,030
125	22	250	138	210	6,350
150	24	285	164	240	7,950
200	24	340	225	295	10,350

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 125.04.110.0004	○ 125.04.210.0004	○ 125.04.120.0004	○ 125.04.220.0004
15	○ 125.06.110.0004	○ 125.06.210.0004	○ 125.06.120.0004	○ 125.06.220.0004
20	○ 125.07.110.0004	○ 125.07.210.0004	○ 125.07.120.0004	○ 125.07.220.0004
25	● 125.08.110.0004	○ 125.08.210.0004	○ 125.08.120.0004	○ 125.08.220.0004
32	○ 125.09.110.0004	○ 125.09.210.0004	○ 125.09.120.0004	○ 125.09.220.0004
40	○ 125.10.110.0004	○ 125.10.210.0004	○ 125.10.120.0004	○ 125.10.220.0004
50	○ 125.11.110.0004	○ 125.11.210.0004	○ 125.11.120.0004	○ 125.11.220.0004
65	○ 125.12.110.0004	○ 125.12.210.0004	○ 125.12.120.0004	○ 125.12.220.0004
80	○ 125.14.110.0004	○ 125.14.210.0004	○ 125.14.120.0004	○ 125.14.220.0004
100	○ 125.15.110.0004	○ 125.15.210.0004	○ 125.15.120.0004	○ 125.15.220.0004
125	○ 125.16.110.0004	○ 125.16.210.0004	○ 125.16.120.0004	○ 125.16.220.0004
150	○ 125.17.110.0004	○ 125.17.210.0004	○ 125.17.120.0004	○ 125.17.220.0004

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 matt Ident number	316 L matt Ident number
20	○ 895.07.210.0032	○ 895.07.220.0032
25	● 895.08.210.0032	● 895.08.220.0032
32	● 895.09.210.0032	● 895.09.220.0032
40	● 895.10.210.0032	● 895.10.220.0032
50	● 895.11.210.0032	● 895.11.220.0032
65	● 895.12.210.0032	● 895.12.220.0032
80	● 895.14.210.0032	● 895.14.220.0032
100	● 895.15.210.0032	● 895.15.220.0032
125	● 895.16.210.0032	● 895.16.220.0032
150	● 895.17.210.0032	● 895.17.220.0032
200	● 895.18.210.0032	○ 895.18.220.0032
250	● 895.19.210.0032	○ 895.19.220.0032

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

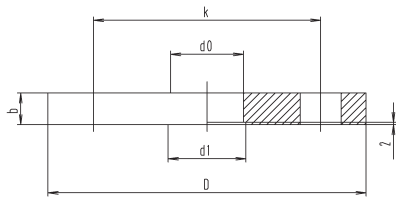
DN	316 L polished Ident number	316 L matt Ident number
25	○ 125.08.120.0002	● 125.08.220.0002
32	○ 125.09.120.0002	○ 125.09.220.0002
40	○ 125.10.120.0002	● 125.10.220.0002
50	○ 125.11.120.0002	● 125.11.220.0002
65	○ 125.12.120.0002	● 125.12.220.0002
80	○ 125.14.120.0002	● 125.14.220.0002
100	○ 125.15.120.0002	● 125.15.220.0002

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	aluminium uncoated Ident number	aluminium coated Ident number
20	○ 125.07.110.0012	○ 125.07.210.0012	● 895.07.6X0.0000	● 895.07.6X0.0001
25	○ 125.08.110.0012	● 125.08.210.0012	● 895.08.6X0.0000	● 895.08.6X0.0001
32	○ 125.09.110.0012	○ 125.09.210.0012	● 895.09.6X0.0000	● 895.09.6X0.0001
40	○ 125.10.110.0012	● 125.10.210.0012	● 895.10.6X0.0000	● 895.10.6X0.0001
50	○ 125.11.110.0012	● 125.11.210.0012	● 895.11.6X0.0000	● 895.11.6X0.0001
65	○ 125.12.110.0012	● 125.12.210.0012	● 895.12.6X0.0000	● 895.12.6X0.0001
80	○ 125.14.110.0012	● 125.14.210.0012	● 895.14.6X0.0000	● 895.14.6X0.0001
100	○ 125.15.110.0012	● 125.15.210.0012	● 895.15.6X0.0000	● 895.15.6X0.0001
125	○ 125.16.110.0012	● 125.16.210.0012	● 895.16.6X0.0000	● 895.16.6X0.0001
150	○ 125.17.110.0012	● 125.17.210.0012	● 895.17.6X0.0000	● 895.17.6X0.0001
200	○ 125.18.110.0012	○ 125.18.210.0012	● 895.18.6X0.0000	○ 895.18.6X0.0001

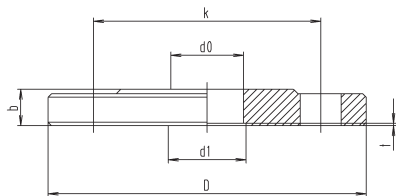
(DIN 2642)

flange, flat, short, PN 10, form A (for tub. similar DIN 11850) (244G)



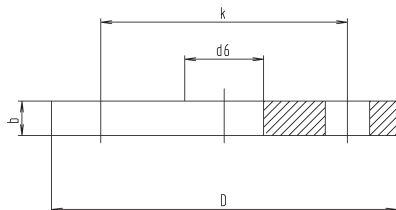
DN	b	d	d0	d1	k	weight (kg)
10	11	90	10	12.2	60	0,500
15	11	95	16	18.2	65	0,600
20	13	105	20	22.2	75	0,850
25	13	115	26	28.2	85	1,110
32	13	140	32	34.2	100	1,600
40	13	150	38	40.2	110	1,800
50	15	165	50	52.2	125	2,300

flange PN 10 with raised face, short, form B2 (for tub. similar DIN 11850) (244)



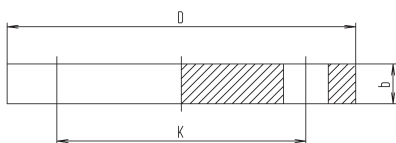
DN	b	d	d0	d1	k	t	weight (kg)
10	16	90	10	12.2	60	1	0,540
15	16	95	16	18.2	65	1	0,610
20	18	105	20	22.2	75	1	0,900
25	18	115	26	28.2	85	1	1,070
32	18	140	32	34.2	100	1	1,270
40	18	150	38	40.2	110	1	1,710
50	18	165	50	52.2	125	1	2,350

flange, slip-on type, PN 10 en I092-I, form A (for tub. similar DIN 11850)



DN	b	d	d6	k	weight (kg)
10	14	90	12.2	60	0,605
15	14	95	18.2	65	0,670
20	16	105	22.2	75	0,940
25	16	115	28.2	85	1,110
32	18	140	34.2	100	1,620
40	18	150	40.2	110	1,860
50	19	165	52.2	125	2,470

flange, blind, PN 10, ENI092-I, type 05, form A (248)



DN	b	d	k	weight (kg)
10	16	90	60	0,690
15	16	95	65	0,770
20	16	105	75	1,080
25	16	115	85	1,300
32	16	140	100	1,930
40	16	150	110	2,210
50	18	165	125	3,020
65	18	185	145	4,830
80	20	200	160	6,280
100	22	220	180	7,590
125	22	250	210	8,470
150	22	285	240	11,010

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 matt Ident number	316 L matt Ident number
10	○ 125.04.210.0019	○ 125.04.220.0019
15	● 125.06.210.0019	● 125.06.220.0019
20	● 125.07.210.0019	● 125.07.220.0019
25	● 125.08.210.0019	● 125.08.220.0019
32	● 125.09.210.0019	● 125.09.220.0019
40	● 125.10.210.0019	● 125.10.220.0019
50	● 125.11.210.0019	● 125.11.220.0019
from DN 65 series 2		

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	316 L matt Ident number
10	○ 125.04.210.0000	○ 125.04.220.0000
15	● 125.06.210.0000	● 125.06.220.0000
20	○ 125.07.210.0000	● 125.07.220.0000
25	● 125.08.210.0000	● 125.08.220.0000
32	● 125.09.210.0000	○ 125.09.220.0000
40	● 125.10.210.0000	● 125.10.220.0000
50	● 125.11.210.0000	● 125.11.220.0000

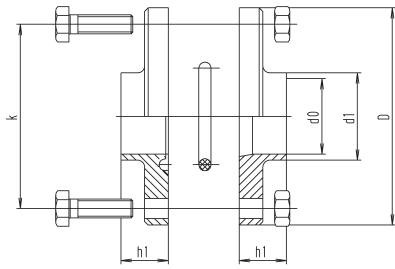
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 L turned Ident number	316 L turned Ident number
10	○ 895.04.610.0199	○ 895.04.620.0199
15	○ 895.06.610.0199	○ 895.06.620.0199
20	○ 895.07.610.0199	○ 895.07.620.0199
25	○ 895.08.610.0199	○ 895.08.620.0199
32	○ 895.09.610.0199	○ 895.09.620.0199
40	○ 895.10.610.0199	○ 895.10.620.0199
50	○ 895.11.610.0199	○ 895.11.620.0199
(DIN 2576) - from size 65 take DIN 11850 line 2		

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

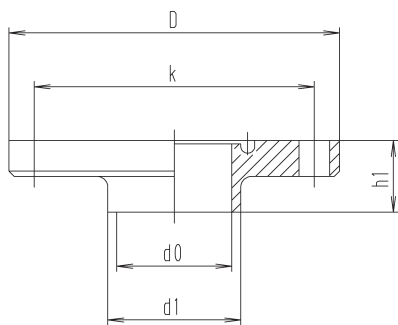
DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 125.04.110.0011	○ 125.04.210.0011	○ 125.04.120.0011	○ 125.04.220.0011
15	○ 125.06.110.0011	○ 125.06.210.0011	○ 125.06.120.0011	○ 125.06.220.0011
20	○ 125.07.110.0011	○ 125.07.210.0011	○ 125.07.120.0011	○ 125.07.220.0011
25	● 125.08.110.0011	● 125.08.210.0011	● 125.08.120.0011	● 125.08.220.0011
32	● 125.09.110.0011	● 125.09.210.0011	● 125.09.120.0011	● 125.09.220.0011
40	● 125.10.110.0011	○ 125.10.210.0011	● 125.10.120.0011	● 125.10.220.0011
50	● 125.11.110.0011	● 125.11.210.0011	● 125.11.120.0011	● 125.11.220.0011
65	● 125.12.110.0011	● 125.12.210.0011	● 125.12.120.0011	● 125.12.220.0011
80	● 125.14.110.0011	● 125.14.210.0011	● 125.14.120.0011	● 125.14.220.0011
100	● 125.15.110.0011	● 125.15.210.0011	● 125.15.120.0011	● 125.15.220.0011
125	● 125.16.110.0011	● 125.16.210.0011	○ 125.16.120.0011	○ 125.16.220.0011
150	○ 125.17.110.0011	○ 125.17.210.0011	○ 125.17.120.0011	○ 125.17.220.0011

flange nocado, inch (246)



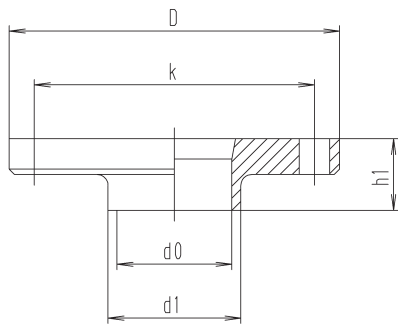
DN	d	d0	d1	hl	k	weight (kg)
1	87	22.1	25.4	20	73	0,780
1½	97	34.8	38.1	25	82.5	0,940
2	110	47.5	50.8	25	95.5	1,180
2½	127	60.2	63.5	25	112.5	1,500
3	142	72.9	76.2	30	127.5	2,560
4	162	97.4	101.6	30	147.5	3,430

flange nocado, with groove, inch (246G)



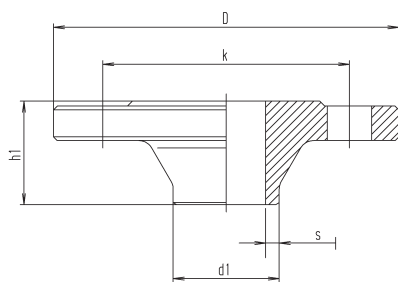
DN	d0	d1	d	hl	k	weight (kg)
1	22.1	25.4	87	20	73	0,390
1½	34.8	38.1	97	25	82.5	0,470
2	47.5	50.8	110	25	95.5	0,590
2½	60.2	63.5	127	25	112.5	0,750
3	72.9	76.2	142	30	127.5	1,280
4	97.4	101.6	162	30	147.5	1,720

flange nocado without groove inch (246G)



DN	d0	d1	d	hl	k	weight (kg)
1	22.1	25.4	87	20	73	0,390
1½	34.8	38.1	97	25	82.5	0,470
2	47.5	50.8	110	25	95.5	0,590
2½	60.2	63.5	127	25	112.5	0,750
3	72.9	76.2	142	30	127.5	1,280
4	97.4	101.6	162	30	147.5	1,720

welding neck flange, type II, PN 16, EN 1092-1, form BI, ISO



DN	d	d1	hl	k	s	weight (kg)
10	90	17.2	35	60	1.8	0,580
15	95	21.3	38	65	2	0,650
20	105	26.9	40	75	2.3	0,950
25	115	33.7	40	85	2.6	1,140
32	140	42.4	42	100	2.6	1,690
40	150	48.3	45	110	2.6	1,860
50	165	60.3	45	125	2.9	2,530
65	185	76.1	45	145	2.9	3,060
80	200	88.9	50	160	3.2	3,700
100	220	114.3	52	180	3.6	4,620
125	250	139.7	55	210	4	6,300
150	285	168.3	55	240	4.5	7,750

flange nocado, inch (246)

DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1	○ 127.08.11E.0009	○ 127.08.21E.0009	● 127.08.12E.0009	○ 127.08.22E.0009
1½	● 127.10.11E.0009	○ 127.10.21E.0009	● 127.10.12E.0009	○ 127.10.22E.0009
2	● 127.11.11E.0009	○ 127.11.21E.0009	● 127.11.12E.0009	○ 127.11.22E.0009
2½	● 127.12.11E.0009	○ 127.12.21E.0009	● 127.12.12E.0009	○ 127.12.22E.0009
3	● 127.13.11E.0009	○ 127.13.21E.0009	● 127.13.12E.0009	○ 127.13.22E.0009
4	● 127.15.11E.0009	○ 127.15.21E.0009	● 127.15.12E.0009	○ 127.15.22E.0009
standard gasket EPDM considered				

flange nocado, with groove, inch (246G)

DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1	○ 125.08.110.0007	○ 125.08.210.0007	○ 125.08.120.0007	○ 125.08.220.0007
1½	○ 125.10.110.0007	○ 125.10.210.0007	○ 125.10.120.0007	○ 125.10.220.0007
2	○ 125.11.110.0007	○ 125.11.210.0007	○ 125.11.120.0007	○ 125.11.220.0007
2½	○ 125.12.110.0007	○ 125.12.210.0007	○ 125.12.120.0007	○ 125.12.220.0007
3	○ 125.13.110.0007	○ 125.13.210.0007	○ 125.13.120.0007	○ 125.13.220.0007
4	○ 125.15.110.0007	○ 125.15.210.0007	○ 125.15.120.0007	○ 125.15.220.0007

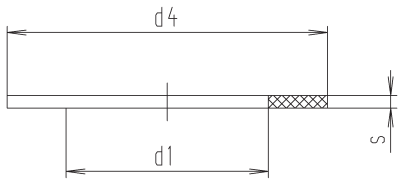
flange nocado without groove inch (246G)

DN	304 L polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1	○ 125.08.110.0006	○ 125.08.210.0006	○ 125.08.120.0006	○ 125.08.220.0006
1½	○ 125.10.110.0006	○ 125.10.210.0006	○ 125.10.120.0006	○ 125.10.220.0006
2	○ 125.11.110.0006	○ 125.11.210.0006	○ 125.11.120.0006	○ 125.11.220.0006
2½	○ 125.12.110.0006	○ 125.12.210.0006	○ 125.12.120.0006	○ 125.12.220.0006
3	○ 125.13.110.0006	○ 125.13.210.0006	○ 125.13.120.0006	○ 125.13.220.0006
4	○ 125.15.110.0006	○ 125.15.210.0006	○ 125.15.120.0006	○ 125.15.220.0006

welding neck flange, type II, PN 16, EN 1092-1, form BI, ISO

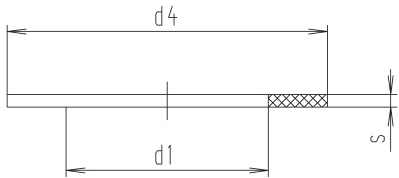
DN	304 turned Ident number	304 matt Ident number
10	○ 895.04.610.0164	○ 895.04.620.0164
15	○ 895.06.610.0164	○ 895.06.620.0164
20	○ 895.07.610.0164	○ 895.07.620.0164
25	○ 895.08.610.0164	○ 895.08.620.0164
32	○ 895.09.610.0164	○ 895.09.620.0164
40	○ 895.10.610.0164	○ 895.10.620.0164
50	○ 895.11.610.0164	○ 895.11.620.0164
65	○ 895.12.610.0164	○ 895.12.620.0164
80	○ 895.14.610.0164	○ 895.14.620.0164
100	○ 895.15.610.0164	○ 895.15.620.0164
125	○ 895.16.610.0164	○ 895.16.620.0164
150	○ 895.17.610.0164	○ 895.17.620.0164
(DIN 2633)		

gasket for welding neck, PN 10 (243P)



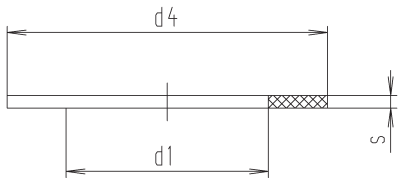
DN	d1	d4	s	weight (kg)
20	20	58	3	0,008
25	40	66	3	0,010
32	48	76	3	0,013
40	54	86	3	0,016
50	68	100	3	0,019
65	85	120	3	0,026
80	100	136	3	0,030
100	120	156	3	0,036
125	145	186	3	0,049
150	170	210	3	0,055
200	216	273	3	0,101
250	267	330	3	0,135

gasket for flange PN 10 EN 1092-1 (247P)



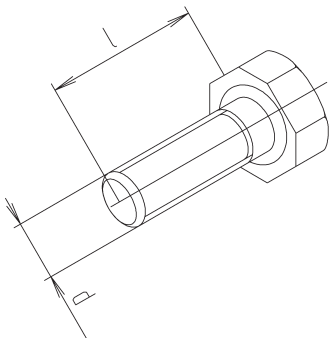
DN	d1	d4	s	weight (kg)
10	10	40	3	0,005
15	16	45	3	0,006
20	20	58	3	0,010
25	26	68	3	0,013
32	32	78	3	0,018
40	38	88	3	0,023
50	50	102	3	0,029
65	66	122	3	0,038
80	81	138	3	0,046
100	100	158	3	0,054
125	125	188	3	0,072
150	150	212	3	0,081

gasket for flange acc. DIN 2690



DN	d1	d4	s	weight (kg)
10	13.6	40	3	0,005
15	17.3	45	3	0,006
20	22.3	58	3	0,010
25	28.5	68	3	0,013
32	36.2	78	3	0,018
40	43.1	88	3	0,023
50	53.5	102	3	0,029
65	70.3	122	3	0,038
80	82.5	138	3	0,046
100	107.1	158	3	0,054
125	137.7	188	3	0,072
150	159.3	212	3	0,081

hexagonal bolt, DIN 933 A2



DN	d	l	quantity	flange-type	weight (kg)
10 - 65	M8	27	4	nocado	0,014
75 - 100	M8	40	4	nocado	0,020
125 - 150	M10	45	4	nocado	0,037
10 - 15	M12	50	4	DIN/EN 1092-1	0,053
20 - 25	M12	60	4	DIN/EN 1092-1	0,060
32 - 65	M16	60	4	DIN/EN 1092-1	0,117
80 - 100	M16	70	8	DIN/EN 1092-1	0,128
125	M16	80	8	DIN/EN 1092-1	0,144
150	M20	80	8	DIN/EN 1092-1	0,238
200	M20	80	8	DIN/EN 1092-1	0,238
250	M20	90	12	DIN/EN 1092-1	0,259

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM		NBR	
	Ident number		Ident number	
20	○ 829.07.6E0.0001		○ 829.07.6N0.0001	
25	○ 829.08.6E0.0001		● 829.08.6N0.0001	
32	○ 829.09.6E0.0001		● 829.09.6N0.0001	
40	○ 829.10.6E0.0001		● 829.10.6N0.0001	
50	○ 829.11.6E0.0001		● 829.11.6N0.0001	
65	○ 829.12.6E0.0001		● 829.12.6N0.0001	
80	○ 829.14.6E0.0001		● 829.14.6N0.0001	
100	○ 829.15.6E0.0001		● 829.15.6N0.0001	
125	○ 829.16.6E0.0001		● 829.16.6N0.0001	
150	○ 829.17.6E0.0001		● 829.17.6N0.0001	
200	○ 829.18.6E0.0001		○ 829.18.6N0.0001	
250	○ 829.19.6E0.0001		○ 829.19.6N0.0001	

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM		Klingersil		NBR		FPM	
	Ident number		Ident number		Ident number		Ident number	
10	○ 829.04.6E0.0000		○ 829.04.6K0.0000		● 829.04.6N0.0000		○ 829.04.6V0.0000	
15	● 829.06.6E0.0000		○ 829.06.6K0.0000		● 829.06.6N0.0000		○ 829.06.6V0.0000	
20	● 829.07.6E0.0000		○ 829.07.6K0.0000		● 829.07.6N0.0000		○ 829.07.6V0.0000	
25	● 829.08.6E0.0000		○ 829.08.6K0.0000		● 829.08.6N0.0000		○ 829.08.6V0.0000	
32	● 829.09.6E0.0000		○ 829.09.6K0.0000		● 829.09.6N0.0000		○ 829.09.6V0.0000	
40	● 829.10.6E0.0000		○ 829.10.6K0.0000		● 829.10.6N0.0000		○ 829.10.6V0.0000	
50	○ 829.11.6E0.0000		○ 829.11.6K0.0000		● 829.11.6N0.0000		○ 829.11.6V0.0000	
65	● 829.12.6E0.0000		○ 829.12.6K0.0000		● 829.12.6N0.0000		○ 829.12.6V0.0000	
80	● 829.14.6E0.0000		○ 829.14.6K0.0000		● 829.14.6N0.0000		○ 829.14.6V0.0000	
100	● 829.15.6E0.0000		○ 829.15.6K0.0000		● 829.15.6N0.0000		○ 829.15.6V0.0000	
125	○ 829.16.6E0.0000		○ 829.16.6K0.0000		● 829.16.6N0.0000		○ 829.16.6V0.0000	
150	○ 829.17.6E0.0000		○ 829.17.6K0.0000		● 829.17.6N0.0000		○ 829.17.6V0.0000	

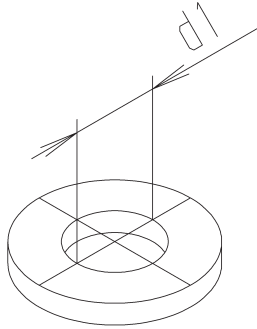
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM		Klingersil		NBR		FPM	
	Ident number		Ident number		Ident number		Ident number	
10	○ 829.04.6E0.0008		○ 829.04.6K0.0008		○ 829.04.6N0.0008		○ 829.04.6V0.0008	
15	○ 829.06.6E0.0008		○ 829.06.6K0.0008		○ 829.06.6N0.0008		○ 829.06.6V0.0008	
20	○ 829.07.6E0.0008		○ 829.07.6K0.0008		○ 829.07.6N0.0008		○ 829.07.6V0.0008	
25	○ 829.08.6E0.0008		○ 829.08.6K0.0008		○ 829.08.6N0.0008		○ 829.08.6V0.0008	
32	○ 829.09.6E0.0008		○ 829.09.6K0.0008		○ 829.09.6N0.0008		○ 829.09.6V0.0008	
40	○ 829.10.6E0.0008		○ 829.10.6K0.0008		○ 829.10.6N0.0008		○ 829.10.6V0.0008	
50	○ 829.11.6E0.0008		○ 829.11.6K0.0008		○ 829.11.6N0.0008		○ 829.11.6V0.0008	
65	○ 829.12.6E0.0008		○ 829.12.6K0.0008		○ 829.12.6N0.0008		○ 829.12.6V0.0008	
80	○ 829.14.6E0.0008		○ 829.14.6K0.0008		○ 829.14.6N0.0008		○ 829.14.6V0.0008	
100	○ 829.15.6E0.0008		○ 829.15.6K0.0008		○ 829.15.6N0.0008		○ 829.15.6V0.0008	
125	○ 829.16.6E0.0008		○ 829.16.6K0.0008		○ 829.16.6N0.0008		○ 829.16.6V0.0008	
150	○ 829.17.6E0.0008		○ 829.17.6K0.0008		○ 829.17.6N0.0008		○ 829.17.6V0.0008	

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

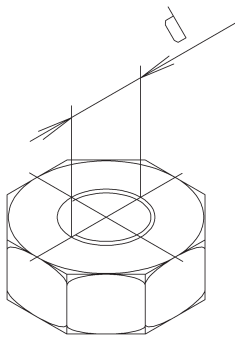
DN	A2	
	Ident number	
10 - 65	● 841.00.610.0120	
75 - 100	○ 841.00.610.0221	
125 - 150	○ 841.00.610.0055	
10 - 15	○ 841.00.610.0069	
20 - 25	○ 841.00.610.0071	
32 - 65	○ 841.00.610.0094	
80 - 100	○ 841.00.610.0096	
125	○ 841.00.610.0097	
150	○ 841.00.610.0107	
200	○ 841.00.610.0107	
250	○ 841.00.610.0108	

washer DIN 125



DN	d1	flange-type	weight (kg)
10 - 25	13	DIN/EN 1092-1	0,006
32 - 125	17	DIN/EN 1092-1	0,010
150 - 250	21	DIN/EN 1092-1	0,016

hexagonal nut, DIN 934



DN	d	flange-type	weight (kg)
10 - 100	M8	nocado	0,005
125 - 150	M10	nocado	0,010
10 - 25	M12	DIN/EN 1092-1	0,016
32 - 125	M16	DIN/EN 1092-1	0,029
150 - 250	M20	DIN/EN 1092-1	0,056

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

A2	
DN	Ident number
10 - 25	○ 845.00.610.0006
32 - 125	○ 845.00.610.0008
150 - 250	○ 845.00.610.0010

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

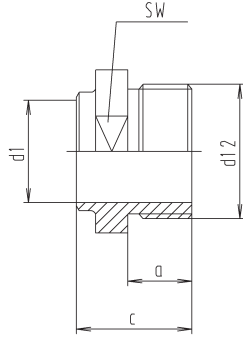
A2/A4	
DN	Ident number
10 - 100	● 842.00.610.0004
125 - 150	○ 842.00.610.0005
10 - 25	○ 842.00.610.0006
32 - 125	○ 842.00.610.0008
150 - 250	○ 842.00.610.0010

2.2 Piping connections

2.2.4 Threaded fittings

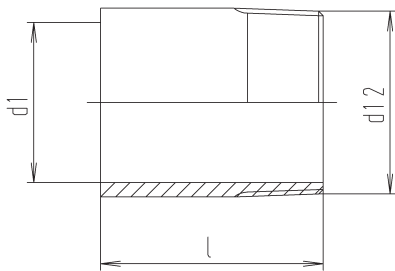
	page
Welding nipple, with wrench face (for tubing similar to DIN 11850) (240S).....	2.2.4-1
Welding nipple, ISO (240).....	2.2.4-1
Double nipple, hexagonal (240D).....	2.2.4-1
Double nipple, tube type.....	2.2.4-1
Welding coupling, with wrench face (for tubing similar to DIN 11850) (241S).....	2.2.4-3
Welding coupling, ISO (241).....	2.2.4-3
Welding coupling, half type, ISO.....	2.2.4-3
Hexagonal bushing.....	2.2.4-3
Union, for flat gasket, inside/outside thread, ISO.....	2.2.4-5
Union, conical seat, ISO.....	2.2.4-5
Union, for flat gasket, weld ends, ISO.....	2.2.4-5
Union, conical seat, weld ends, ISO.....	2.2.4-5
Pipe plug, hexagonal type (240A).....	2.2.4-7
Pipe cap (241A).....	2.2.4-7
Pipe elbow, ferrule, R-thread.....	2.2.4-7
T-pieces, ferrule, R-thread.....	2.2.4-7

welding nipple, with wrench face, (for tubing acc. DIN 11850) (240S)



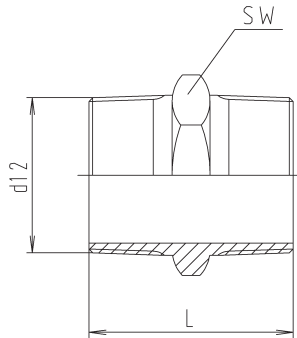
DN	a	c	d1	d12	SW	weight (kg)
10	14	28	10	R 3/8"	19	0,045
15	14	28	16	R 1/2"	24	0,070
20	14	28	20	R 3/4"	30	0,100
25	20	36	26	R 1"	41	0,170
32	20	36	32	R 1 1/4"	46	0,200
40	20	36	38	R 1 1/2"	50	0,230
50	20	36	50	R 2"	65	0,290
65	22	38	66	R 2 1/2"	80	0,360
80	25	45	81	R 3"	95	0,420
100	30	52	100	R 4"	117	0,610

welding nipple, ISO (240)



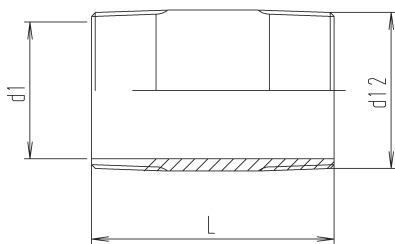
DN	d1	d12	l	weight (kg)
6	6.2	R 1/8"	30	0,020
8	8.9	R 1/4"	30	0,020
10	12.6	R 3/8"	30	0,030
15	16.1	R 1/2"	35	0,040
20	21.7	R 3/4"	40	0,060
25	27.3	R 1"	40	0,100
32	36	R 1 1/4"	50	0,150
40	41.9	R 1 1/2"	50	0,160
50	53.1	R 2"	50	0,220
65	68.9	R 2 1/2"	60	0,420
80	80.9	R 3"	70	0,680
100	104	R 4"	80	0,800

double nipple, hexagonal (240D)



DN	d12	L	SW	weight (kg)
6	R 1/8"	21	12	0,030
8	R 1/4"	27	14	0,030
10	R 3/8"	29	19	0,030
15	R 1/2"	35	22	0,070
20	R 3/4"	40	30	0,090
25	R 1"	45	36	0,170
32	R 1 1/4"	52	46	0,260
40	R 1 1/2"	54	50	0,440
50	R 2"	62	65	0,650
65	R 2 1/2"	72	80	-
80	R 3"	80	95	-
100	R 4"	83	119	-

double nipple, tube type



DN	d1	d12	l	weight (kg)
8	8.9	R 1/4"	30	0,040
10	12.6	R 3/8"	40	0,040
15	16.1	R 1/2"	60	0,060
20	21.7	R 3/4"	60	0,150
25	27.3	R 1"	60	0,160
32	36	R 1 1/4"	80	0,270
40	41.9	R 1 1/2"	80	0,350
50	53.1	R 2"	100	0,500
65	68.9	R 2 1/2"	100	0,550
80	80.9	R 3"	120	0,750
100	105.3	R 4"	120	0,900

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	316 L polished Ident number
10	● 121.04.110.0056	● 121.04.120.0056
15	● 121.06.110.0056	● 121.06.120.0056
20	● 121.07.110.0056	● 121.07.120.0056
25	● 121.08.110.0056	● 121.08.120.0056
32	● 121.09.110.0056	● 121.09.120.0056
40	● 121.10.110.0056	● 121.10.120.0056
50	● 121.11.110.0056	● 121.11.120.0056
65	● 121.12.110.0056	● 121.12.120.0056
80	● 121.14.110.0056	○ 121.14.120.0056
100	○ 121.15.110.0056	○ 121.15.120.0056

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	1.4571 Ident number
6	○ 121.02.220.0023
8	● 121.03.220.0023
10	● 121.04.220.0023
15	● 121.06.220.0023
20	● 121.07.220.0023
25	● 121.08.220.0023
32	● 121.09.220.0023
40	● 121.10.220.0023
50	● 121.11.220.0023
65	● 121.12.220.0023
80	● 121.14.220.0023
100	○ 121.15.220.0023

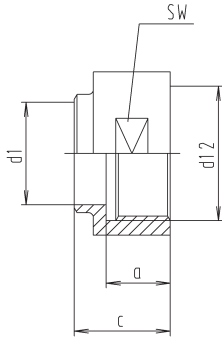
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	1.4571 Ident number
6	● 899.02.220.0027
8	● 899.03.220.0027
10	○ 899.04.220.0027
15	● 899.06.220.0027
20	● 899.07.220.0027
25	● 899.08.220.0027
32	● 899.09.220.0027
40	● 899.10.220.0027
50	● 899.11.220.0027
65	○ 899.12.220.0027
80	○ 899.14.220.0027
100	○ 899.15.220.0027

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

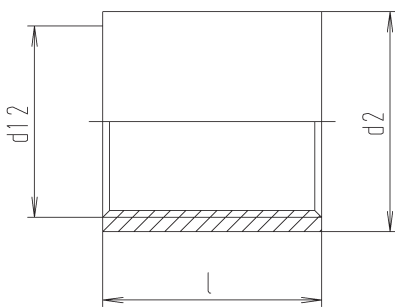
DN	1.4571 Ident number
8	○ 895.03.690.0168
10	○ 895.04.690.0168
15	○ 895.06.690.0168
20	○ 895.07.690.0168
25	○ 895.08.690.0168
32	○ 895.09.690.0168
40	○ 895.10.690.0168
50	○ 895.11.690.0168
65	○ 895.12.690.0168
80	○ 895.14.690.0168
100	○ 895.15.690.0168

welding coupling with wrench face (for tubing acc. DIN 11850) (24IS)



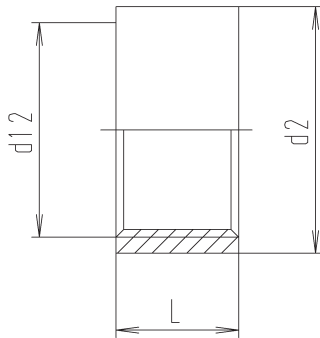
DN	a	c	d1	d12	SW	weight (kg)
10	14	22	10	R 3/8"	19	0,060
15	14	24	16	R 1/2"	24	0,090
20	14	24	20	R 3/4"	30	0,120
25	20	30	26	R 1"	41	0,210
32	20	30	32	R 1 1/4"	46	0,230
40	20	30	38	R 1 1/2"	50	0,270
50	20	30	50	R 2"	65	0,330
65	22	32	66	R 2 1/2"	80	0,430
80	25	37	81	R 3"	95	0,500
100	30	45	100	R 4"	117	0,650

welding coupling ISO (24I)



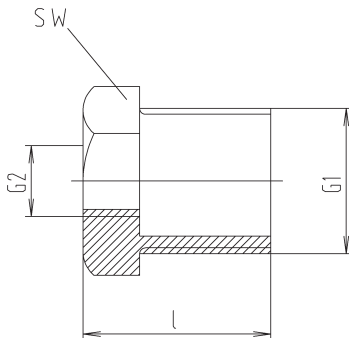
DN	d2	d12	L	weight (kg)
6	14	R 1/8"	17	0,020
8	18.5	R 1/4"	25	0,020
10	21.3	R 3/8"	26	0,030
15	26.5	R 1/2"	34	0,080
20	32.5	R 3/4"	36	0,110
25	39.5	R 1"	43	0,170
32	48.3	R 1 1/4"	48	0,320
40	54.5	R 1 1/2"	48	0,400
50	66.3	R 2"	56	0,450
65	82	R 2 1/2"	65	0,550
80	95	R 3"	71	0,750
100	122	R 4"	83	1,100

welding coupling half type, ISO



DN	d12	d2	L	weight (kg)
6	R 1/8"	14	7	-
8	R 1/4"	18.5	11	-
10	R 3/8"	21.3	12	-
15	R 1/2"	26.5	15	-
20	R 3/4"	32.5	16	-
25	R 1"	39.5	20	-
32	R 1 1/4"	48.3	22	-
40	R 1 1/2"	54.5	22	-
50	R 2"	66.3	26	-
65	R 2 1/2"	82	30	-
80	R 3"	95	33	-
100	R 4"	122	39	-

hexagonal bushing



DN	G1	G2	I	SW	weight (kg)
-	R 1/4"	R 1/8"	15	14	0,010
-	R 3/8"	R 1/8"	17	21	0,015
-	R 3/8"	R 1/4"	17	31	0,015
-	R 1/2"	R 1/8"	20	26	0,035
-	R 1/2"	R 1/4"	20	26	0,035
-	R 1/2"	R 3/8"	20	26	0,035
-	R 3/4"	R 1/4"	24	26	0,069
-	R 3/4"	R 3/8"	24	26	0,069
-	R 3/4"	R 1/2"	24	26	0,069
-	R 1"	R 1/4"	27	28	0,080
-	R 1"	R 3/8"	27	28	0,080

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	316 L polished Ident number
10	● 124.04.110.0025	● 124.04.120.0025
15	● 124.06.110.0025	● 124.06.120.0025
20	● 124.07.110.0025	● 124.07.120.0025
25	● 124.08.110.0025	● 124.08.120.0025
32	○ 124.09.110.0025	● 124.09.120.0025
40	○ 124.10.110.0025	● 124.10.120.0025
50	● 124.11.110.0025	● 124.11.120.0025
65	○ 124.12.110.0025	● 124.12.120.0025
80	○ 124.14.110.0025	○ 124.14.120.0025
100	○ 124.15.110.0025	○ 124.15.120.0025

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	1.4571 Ident number
6	● 124.02.220.0023
8	● 124.03.220.0023
10	● 124.04.220.0023
15	● 124.06.220.0023
20	● 124.07.220.0023
25	● 124.08.220.0023
32	● 124.09.220.0023
40	● 124.10.220.0023
50	● 124.11.220.0023
65	● 124.12.220.0023
80	● 124.14.220.0023
100	○ 124.15.220.0023

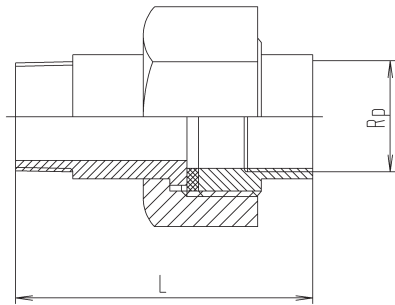
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	1.4571 Ident number
6	○ 895.02.620.0004
8	○ 895.03.620.0004
10	○ 895.04.620.0004
15	○ 895.06.620.0004
20	○ 895.07.620.0004
25	○ 895.08.620.0004
32	○ 895.09.620.0004
40	○ 895.10.620.0004
50	○ 895.11.620.0004
65	○ 895.12.620.0004
80	○ 895.14.620.0004
100	○ 895.15.620.0004

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

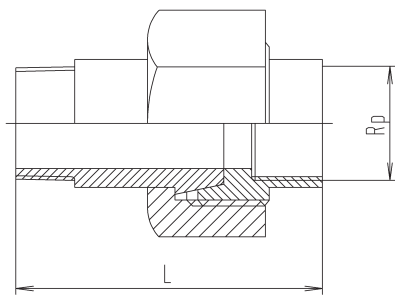
DN	316 L Ident number
-	○ 895.2C.690.0167
-	○ 895.2E.690.0167
-	○ 895.2F.690.0167
-	○ 895.2L.690.0167
-	○ 895.2M.690.0167
-	○ 895.2I.690.0167
-	○ 895.2Q.690.0167
-	○ 895.22.690.0167
-	○ 895.23.690.0167
-	○ 895.2U.690.0167
-	○ 895.24.690.0167

union, for flat gasket, inside/outside thread ISO



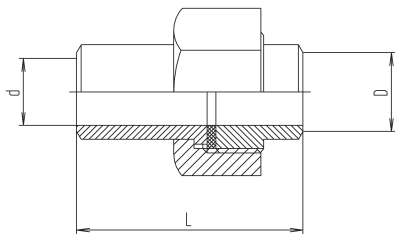
DN	L ca.	R/RP	weight (kg)
6	41	1/8"	0,070
8	53	1/4"	0,150
10	57	3/8"	0,250
15	57	1/2"	0,300
20	62	3/4"	0,350
25	69	1"	0,450
32	77	1 1/4"	0,700
40	82	1 1/2"	0,800

union, conical seat, ISO



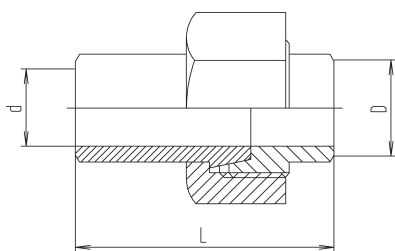
DN	L ca.	R/RP	weight (kg)
6	41	1/8"	0,070
8	53	1/4"	0,150
10	57	3/8"	0,250
15	57	1/2"	0,300
20	62	3/4"	0,350
25	69	1"	0,450
32	77	1 1/4"	0,700
40	82	1 1/2"	0,800

union, for flat gasket, weld ends, ISO



DN	d	L ca.	d	weight (kg)
10	9	36	13.8	0,100
12	12	38	17	0,200
15	15	40	21.3	0,250
20	20	48	26.9	0,300
25	26	49.5	33.7	0,400
32	35	54	42.4	0,600
40	38	58	48.3	0,700
50	50	60	60.3	1,000
65	65	73.5	76.1	1,800
80	80	91	88.9	2,000

union, conical seat, weld ends, ISO



DN	d	L ca.	d	weight (kg)
10	9	36	13.8	0,100
12	12	38	17	0,200
15	15	40	21.3	0,250
20	20	48	26.9	0,300
25	26	49.5	33.7	0,400
32	35	54	42.4	0,600
40	38	58	48.3	0,700
50	50	60	60.3	1,000
65	65	73.5	76.1	1,800
80	80	91	88.9	2,000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

316 L PTFE	
DN	Ident number
6	○ 127.02.62T.0051
8	○ 127.03.62T.0051
10	○ 127.04.62T.0051
15	○ 127.06.62T.0051
20	○ 127.07.62T.0051
25	○ 127.08.62T.0051
32	○ 127.09.62T.0051
40	○ 127.10.62T.0051

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

316 L PTFE	
DN	Ident number
6	○ 127.02.62T.0052
8	○ 127.03.62T.0052
10	○ 127.04.62T.0052
15	○ 127.06.62T.0052
20	○ 127.07.62T.0052
25	○ 127.08.62T.0052
32	○ 127.09.62T.0052
40	○ 127.10.62T.0052

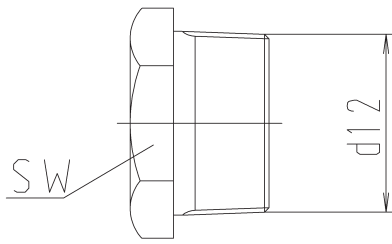
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

316 L PTFE	
DN	Ident number
10	○ 127.04.62T.0053
12	○ 127.05.62T.0053
15	○ 127.06.62T.0053
20	○ 127.07.62T.0053
25	○ 127.08.62T.0053
32	○ 127.09.62T.0053
40	○ 127.10.62T.0053
50	○ 127.11.62T.0053
65	○ 127.12.62T.0053
80	○ 127.14.62T.0053

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

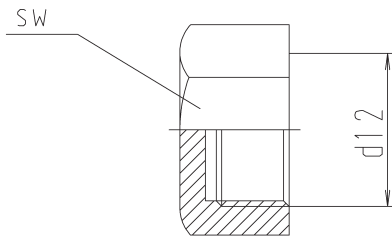
316 L	
DN	Ident number
10	○ 127.04.620.0054
12	○ 127.05.620.0054
15	○ 127.06.620.0054
20	○ 127.07.620.0054
25	○ 127.08.620.0054
32	○ 127.09.620.0054
40	○ 127.10.620.0054
50	○ 127.11.620.0054
65	○ 127.12.620.0054
80	○ 127.14.620.0054

pipe plug, hexagonal type (240A)



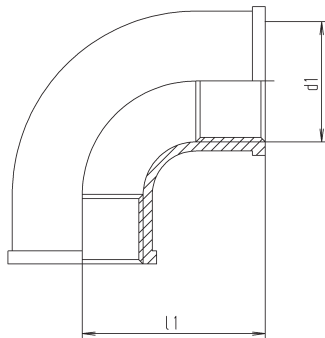
DN	d12	SW	weight (kg)
6	R 1/8"	12	0,01
8	R 1/4"	14	0,02
10	R 3/8"	17	0,03
15	R 1/2"	22	0,05
20	R 3/4"	27	0,12
25	R 1"	36	0,13
32	R 1 1/4"	46	0,5
40	R 1 1/2"	50	0,55

pipe cap (241A)



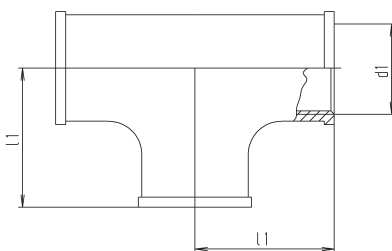
DN	d12	SW	weight (kg)
6	R 1/8"	15	0,020
8	R 1/4"	17	0,020
10	R 3/8"	22	0,030
15	R 1/2"	27	0,040
20	R 3/4"	32	0,080
25	R 1"	41	0,120
32	R 1 1/4"	50	0,350
40	R 1 1/2"	55	0,400

pipe elbow, ferrule, R-thread



DN	d1 thread	L1 ca.	weight (kg)
8	R 1/4"	21	0,080
10	R 3/8"	25	0,090
15	R 1/2"	28	0,100
20	R 3/4"	33	0,200
25	R 1"	38	0,300
32	R 1 1/4"	45	0,500
40	R 1 1/2"	50	0,600
50	R 2"	58	1,300
65	R 2 1/2"	75	1,500
80	R 3"	85	1,800
100	R 4"	105	2,300

t-pieces, ferrule R-thread



DN	d1 thread	L1 ca.	weight (kg)
8	R 1/4"	21	0,060
10	R 3/8"	25	0,100
15	R 1/2"	28	0,200
20	R 3/4"	33	0,300
25	R 1"	38	0,500
32	R 1 1/4"	45	0,700
40	R 1 1/2"	50	0,800
50	R 2"	58	1,200
65	R 2 1/2"	70	1,900
80	R 3"	80	2,500
100	R 4"	100	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

I.4571	
DN	Ident number
6	● 895.02.220.0010
8	● 895.03.220.0010
10	● 895.04.220.0010
15	● 895.06.220.0010
20	● 895.07.220.0010
25	● 895.08.220.0010
32	● 895.09.220.0010
40	● 895.10.220.0010

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

I.4571	
DN	Ident number
6	● 895.02.220.0011
8	● 895.03.220.0011
10	● 895.04.220.0011
15	● 895.06.220.0011
20	● 895.07.220.0011
25	● 895.08.220.0011
32	● 895.09.220.0011
40	● 895.10.220.0011

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

I.4571	
DN	Ident number
8	○ 129.03.620.0055
10	○ 129.04.620.0055
15	○ 129.06.620.0055
20	○ 129.07.620.0055
25	○ 129.08.620.0055
32	○ 129.09.620.0055
40	○ 129.10.620.0055
50	○ 129.11.620.0055
65	○ 129.12.620.0055
80	○ 129.14.620.0055
100	○ 129.15.620.0055

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

I.4571	
DN	Ident number
8	○ 129.03.620.0056
10	○ 129.04.620.0056
15	○ 129.06.620.0056
20	○ 129.07.620.0056
25	○ 129.08.620.0056
32	○ 129.09.620.0056
40	○ 129.10.620.0056
50	○ 129.11.620.0056
65	○ 129.12.620.0056
80	○ 129.14.620.0056
100	○ 129.15.620.0056

2.2 Piping connections

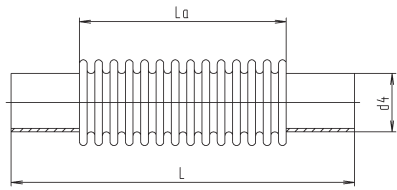
2.2.5 Flexible piping connections

page

Compensator, weld ends, (for tubing similar to DIN 11850) (929) 2.2.4-1

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compensator, weld ends, (for tubing similar DIN 11850) (929)



DN	d4	l	L0	weight (kg)
25	28x1,5	200	±10	0,160
32	34x1,5	200	±15	0,180
40	40x1,5	200	±15	0,260
50	52x1,5	200	±15	0,320
65	70x2	200	±18	0,560
80	85x2	200	±20	0,780
100	104x2	300	±35	0,950

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L polished Ident number
25	● 895.08.620.0000
32	● 895.09.620.0000
40	● 895.10.620.0000
50	● 895.11.620.0000
65	● 895.12.620.0000
80	● 895.14.620.0000
100	● 895.15.620.0000

2.3 Pipe hangers, accessories, tools

2.3.1 Pipe clamps

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Pipe clamps with shaft (for tubing DIN 11850).....	1
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2.3.2 Accessories

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Screws	3

2.3.3 Tools

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Pipe expanders	1
C-spanners	3
Grinding wheels/abrasive belts	3
Wire brushes	3

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2.3 Pipe hangers, accessories, tools

2.3.1 Tubing supports and pipe hangers

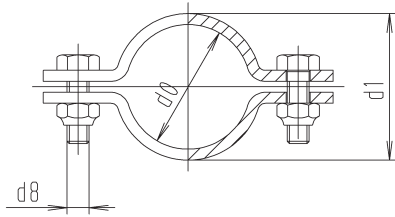
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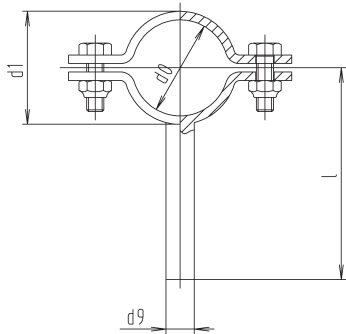
Back

pipe clamp, without shank (for tubing in inch) (934Z)



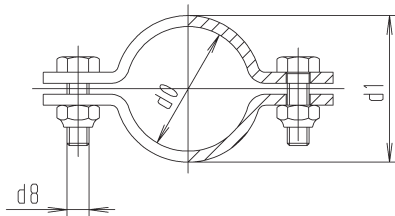
DN	d0	d1	d8	weight (kg)
1"	25.4	31.4	M6x20	0,080
1¼"	31.8	37.8	M6x20	0,090
1½"	38.1	44.1	M6x20	0,10
2"	50.8	56.8	M6x20	0,110
2½"	63.5	69.5	M6x25	0,130
3"	76.2	82.2	M6x25	0,210
4"	101.6	107.6	M6x25	0,260

pipe clamp, with shank (for tubing in inch) (935Z)



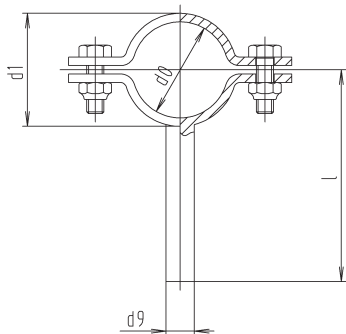
DN	d0	d1	d9	l	weight (kg)
1"	25.4	31.4	10	71	0,120
1¼"	31.8	37.8	10	74	0,120
1½"	38.1	44.1	10	77	0,140
2"	50.8	56.8	12	84	0,150
2½"	63.5	69.5	12	90	0,190
3"	76.2	82.2	12	96	0,330
4"	101.6	107.6	12	109	0,340

pipe clamp, without shank (for tubing in ISO) (934I)



DN	d0	d1	d8	weight (kg)
25	34	40	M6x20	0,100
32	42.4	48.4	M6x20	0,100
40	48.4	54.4	M6x20	0,110
50	60.4	66.4	M6x20	0,130
65	76.2	82.2	M6x25	0,150
80	89	95	M6x25	0,270
100	114.4	120.4	M6x25	0,300

pipe clamp, with shank (for tubing in ISO) (935I)



DN	d0	d1	d9	l	weight (kg)
25	34	40	10	75	0,150
32	42.4	48.4	10	79	0,150
40	48.4	54.4	10	82	0,160
50	60.4	66.4	12	88	0,180
65	76.2	82.2	12	96	0,220
80	89	95	12	103	0,390
100	114.4	120.4	12	115	0,400

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number
1"	● 186.08.110.0000	● 186.08.210.0000
1¼"	○ 186.09.110.0000	○ 186.09.210.0000
1½"	● 186.10.110.0000	● 186.10.210.0000
2"	● 186.11.110.0000	● 186.11.210.0000
2½"	● 186.12.110.0000	● 186.12.210.0000
3"	● 186.13.110.0000	● 186.13.210.0000
4"	● 186.15.110.0000	● 186.15.210.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number
1"	● 187.08.110.0000	● 187.08.210.0000
1¼"	● 187.09.110.0000	○ 187.09.210.0000
1½"	● 187.10.110.0000	● 187.10.210.0000
2"	● 187.11.110.0000	● 187.11.210.0000
2½"	● 187.12.110.0000	● 187.12.210.0000
3"	● 187.13.110.0000	● 187.13.210.0000
4"	● 187.15.110.0000	○ 187.15.210.0000

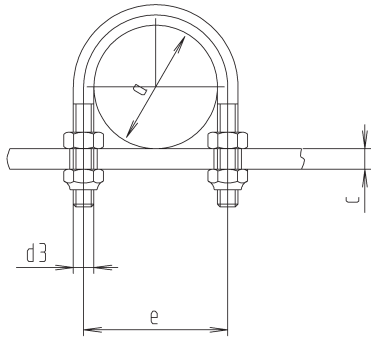
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number
25	● 184.08.110.0012	● 184.08.210.0012
32	● 184.09.110.0012	● 184.09.210.0012
40	● 184.10.110.0012	● 184.10.210.0012
50	● 184.11.110.0012	● 184.11.210.0012
65	● 184.12.110.0012	● 184.12.210.0012
80	● 184.14.110.0012	● 184.14.210.0012
100	● 184.15.110.0012	● 184.15.210.0012

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

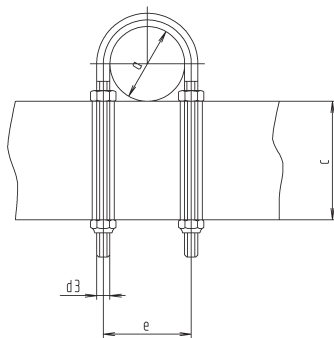
DN	304 polished Ident number	304 matt Ident number
25	● 185.08.110.0012	● 185.08.210.0012
32	● 185.09.110.0012	● 185.09.210.0012
40	● 185.10.110.0012	● 185.10.210.0012
50	● 185.11.110.0012	● 185.11.210.0012
65	● 185.12.110.0012	● 185.12.210.0012
80	● 185.14.110.0012	● 185.14.210.0012
100	● 185.15.110.0012	● 185.15.210.0012

u-bolt, 8 mm (for tubing acc. DIN 11850 line I)



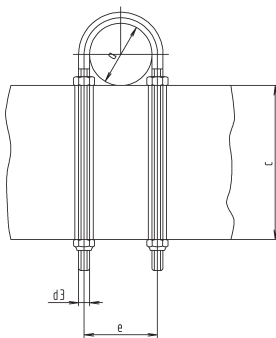
DN	a	c	d3	e	weight (kg)
10	12	8	M6	18	0,030
15	18	8	M6	24	0,030
20	22	8	M6	30	0,030
25	28	8	M6	36	0,030
32	34	8	M6	42	0,030
40	40	8	M8	50	0,060
50	52	8	M8	62	0,070
65	70	8	M8	80	0,080
80	85	8	M10	98	0,150
100	104	8	M10	117	0,180
125	129	8	M10	142	0,210
150	154	8	M12	173	0,370
200	204	8	M12	223	0,480

u-bolt, 54 mm (for tubing acc. DIN 11850 line I) (947)



DN	a	c	d3	e	weight (kg)
10	12	54	M6	18	0,050
15	18	54	M6	24	0,050
20	22	54	M6	30	0,050
25	28	54	M6	36	0,050
32	34	54	M6	42	0,050
40	40	54	M8	50	0,100
50	52	54	M8	62	0,110
65	70	54	M8	80	0,120
80	85	54	M10	98	0,220
100	104	54	M10	117	0,250
125	129	54	M10	142	0,280
150	154	54	M12	173	0,460
200	204	54	M12	223	0,570

u-bolt, 100 mm (for tubing acc. DIN 11850 line I)



DN	a	c	d3	e	weight (kg)
10	12	100	M6	18	0,050
15	18	100	M6	24	0,050
20	22	100	M6	30	0,050
25	28	100	M6	36	0,050
32	34	100	M6	42	0,050
40	40	100	M8	50	0,100
50	52	100	M8	62	0,110
65	70	100	M8	80	0,120
80	85	100	M10	98	0,220
100	104	100	M10	117	0,250
125	129	100	M10	142	0,280
150	154	100	M12	173	0,460
200	204	100	M12	223	0,570

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number
10	○ 388.04.110.0002	○ 388.04.210.0002
15	○ 388.06.110.0002	○ 388.06.210.0002
20	○ 388.07.110.0002	○ 388.07.210.0002
25	● 388.08.110.0002	● 388.08.210.0002
32	● 388.09.110.0002	● 388.09.210.0002
40	● 388.10.110.0002	● 388.10.210.0002
50	● 388.11.110.0002	● 388.11.210.0002
65	● 388.12.110.0002	○ 388.12.210.0002
80	● 388.14.110.0002	● 388.14.210.0002
100	● 388.15.110.0002	○ 388.15.210.0002
125	○ 388.16.110.0002	○ 388.16.210.0002
150	○ 388.17.110.0002	○ 388.17.210.0002
200	○ 388.18.110.0002	○ 388.18.210.0002

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number
10	○ 188.04.110.0000	○ 188.04.210.0000
15	○ 188.06.110.0000	○ 188.06.210.0000
20	○ 188.07.110.0000	○ 188.07.210.0000
25	● 188.08.110.0000	● 188.08.210.0000
32	○ 188.09.110.0000	○ 188.09.210.0000
40	● 188.10.110.0000	● 188.10.210.0000
50	● 188.11.110.0000	● 188.11.210.0000
65	● 188.12.110.0000	● 188.12.210.0000
80	● 188.14.110.0000	● 188.14.210.0000
100	● 188.15.110.0000	● 188.15.210.0000
125	○ 188.16.110.0000	○ 188.16.210.0000
150	● 188.17.110.0000	● 188.17.210.0000
200	○ 188.18.110.0000	○ 188.18.210.0000

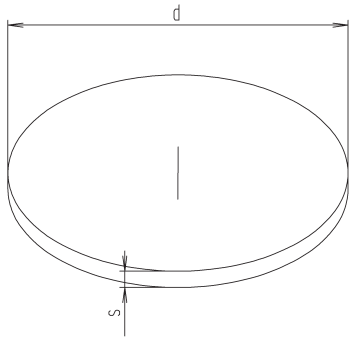
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number
10	○ 388.04.110.0000	○ 388.04.210.0000
15	○ 388.06.110.0000	○ 388.06.210.0000
20	○ 388.07.110.0000	○ 388.07.210.0000
25	● 388.08.110.0000	● 388.08.210.0000
32	○ 388.09.110.0000	○ 388.09.210.0000
40	○ 388.10.110.0000	○ 388.10.210.0000
50	● 388.11.110.0000	● 388.11.210.0000
65	● 388.12.110.0000	● 388.12.210.0000
80	● 388.14.110.0000	● 388.14.210.0000
100	● 388.15.110.0000	● 388.15.210.0000
125	● 388.16.110.0000	● 388.16.210.0000
150	○ 388.17.110.0000	○ 388.17.210.0000
200	○ 388.18.110.0000	○ 388.18.210.0000

2.3 Pipe hangers, accessories, tools

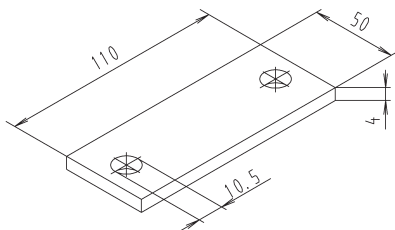
2.3.2 Accessories	page
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Fixing plate, 120x120mm.....	2.3.2-1
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Plastic plug.....	2.3.2-3
Plug, heavy-duty.....	2.3.2-3
Wood screw, hexagonal (DIN 571).....	2.3.2-3

circular blank (906)



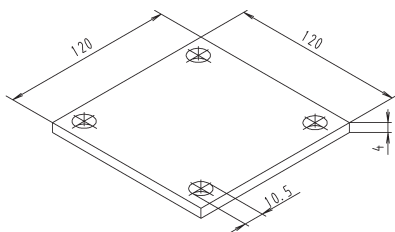
DN	d	s	weight (kg)
25	28	1.5	0,010
32	34	1.5	0,010
40	40	1.5	0,020
50	52	1.5	0,030
65	70	1.5	0,050
80	88	1.5	0,070
110	110	1.5	0,110
125	128	2	0,200
150	150	2	0,280
165	165	3	0,510
210	210	3	0,820
250	250	3	1,160

fixing plate 110x50



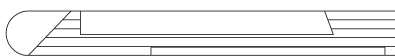
DN	weight (kg)
-	0,173

fixing plate 120x120



DN	weight (kg)
-	0,455

adhesive plug



DN	borehole	drill depth	weight (kg)
M8	10	80	0,013
M10	12	90	0,016
M12	14	110	0,025
M14	16	120	0,027
M16	18	125	0,074
M24	28	210	0,195

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 metall-blank Ident number
25	○ 181.08.110.0005	○ 181.08.210.0005
32	○ 181.09.110.0005	○ 181.09.210.0005
40	○ 181.10.110.0005	○ 181.10.210.0005
50	○ 181.11.110.0005	○ 181.11.210.0005
65	○ 181.12.110.0005	○ 181.12.210.0005
80	○ 181.14.110.0005	○ 181.14.210.0005
110	○ 181.15.110.0006	○ 181.15.210.0006
125	○ 181.16.110.0005	○ 181.16.210.0005
150	○ 181.17.110.0005	○ 181.17.210.0005
165	○ 181.17.110.0007	○ 181.17.210.0007
210	○ 181.18.110.0008	○ 181.18.210.0008
250	○ 181.19.110.0005	○ 181.19.210.0005

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 matt Ident number
-	○ 181.00.210.0022

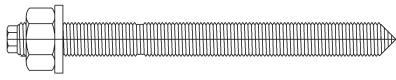
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 matt Ident number
-	○ 181.00.210.0021

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

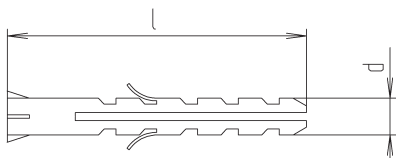
DN	Ident number
M8	○ 849.08.6G0.0597
M10	○ 849.10.6G0.0597
M12	○ 849.12.6G0.0597
M14	○ 849.14.6G0.0597
M16	○ 849.16.6G0.0597
M24	○ 849.24.6G0.0597

threaded rod for adhesive anchors



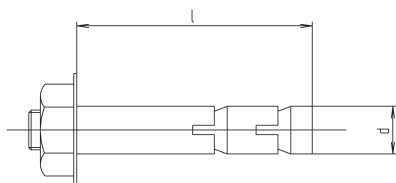
DN	borehole	drill depth	max. Klemml.	weight (kg)
M8	10	80	20	0,043
M10	12	90	15	0,073
M10	12	90	30	0,081
M10	12	90	65	0,098
M10	12	90	90	0,111
M12	14	110	10	0,119
M12	14	110	35	0,137
M12	14	110	55	0,151
M12	14	110	85	0,173
M12	14	110	95	0,182
M12	14	110	125	0,202
M12	14	110	175	0,283
M14	16	120	35	0,191
M16	18	125	5	0,238
M16	18	125	20	0,277
M16	18	125	45	0,296
M16	18	125	65	0,320
M16	18	125	85	0,365
M16	18	125	105	0,391
M16	18	125	155	0,458
M20	25	170	20	0,315
M20	25	170	60	0,366
M20	25	170	100	0,416
M24	28	240	15	1,070
M24	28	240	55	1,070

plastic plug



DN	d	l	weight (kg)
6	6	30	-
8	8	40	-
10	10	50	-
12	12	60	-
14	14	70	-
16	16	80	-
20	20	90	-

plug, heavy-duty



DN	d	l	weight (kg)
8	8	15	-
10	10	45	-
10	10	140	-
12	12	55	-

threaded rod for adhesive anchors

A4	
DN	Ident number
M8	○ 849.08.620.0598
M10	○ 849.08.620.0599
M10	○ 849.08.620.0600
M10	○ 849.08.620.0601
M10	○ 849.08.620.0602
M12	○ 849.08.620.0603
M12	○ 849.08.620.0604
M12	○ 849.08.620.0605
M12	○ 849.08.620.0606
M12	○ 849.08.620.0607
M12	○ 849.08.620.0608
M12	○ 849.08.620.0609
M14	○ 849.08.620.0610
M16	○ 849.08.620.0611
M16	○ 849.08.620.0612
M16	○ 849.08.620.0613
M16	○ 849.08.620.0614
M16	○ 849.08.620.0615
M16	○ 849.08.620.0616
M16	○ 849.08.620.0617
M20	○ 849.08.620.0618
M20	○ 849.08.620.0619
M20	○ 849.08.620.0620
M24	○ 849.08.620.0621
M24	○ 849.08.620.0622

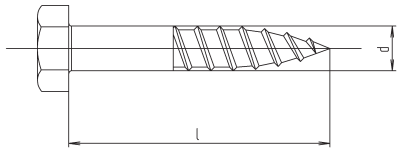
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

plastic	
DN	Ident number
6	○ 725.00.9X0.0030
8	○ 725.00.9X0.0031
10	○ 725.00.9X0.0032
12	○ 725.00.9X0.0033
14	○ 725.00.9X0.0034
16	○ 725.00.9X0.0035
20	○ 725.00.9X0.0036

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

steel, galvanized	
DN	Ident number
8	○ 849.03.610.0590
10	○ 849.03.610.0591
10	○ 849.04.610.0592
12	○ 849.05.610.0593

wood screw, hexagonal, DIN 571



DN	d	l	weight (kg)
5	5	30	-
6	6	50	-
6	6	60	-
8	8	50	-
8	8	60	-
10	10	50	-
10	10	60	-
12	12	60	-
12	12	80	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850
line 2) (5111N)

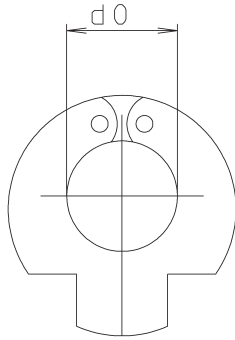
DN	stainless steel / A2 Ident number
5	○ 849.02.610.0002
6	○ 849.03.610.0011
6	○ 849.04.610.0015
8	○ 849.05.610.0019
8	○ 849.05.610.0023
10	○ 849.05.610.0032
10	○ 849.05.610.0036
10	○ 849.05.610.0040
12	○ 849.05.610.0048
12	○ 849.05.610.0052

2.3 Pipe hangers, accessories, tools

2.3.3 Tools

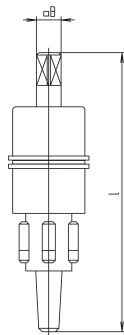
	page
Pipe cutting guide (951)	2.3.3-1
Pipe expander (949)	2.3.3-1
Ratchet for pipe expander (950)	2.3.3-1
Expanding appliance (948)	2.3.3-1
C-spanner with hinge (953)	2.3.3-3
C-spanner (952)	2.3.3-3
Scouring pads, coil	2.3.3-3
Wire brush (stainless steel)	2.3.3-3

pipe cutting guide (951)



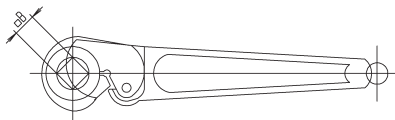
DN	d0 DIN	d0 DIN R2	d0 inch	d0 ISO	weight (kg)
10	12	13	-	17.3	0,600
15	18	19	-	21.3	0,600
20	22	23	-	26.9	0,600
25 / 1"	28	29	1"	33.7	0,700
32 / 1¼"	34	35	1¼"	42.4	0,700
40 / 1½"	40	41	1½"	48.3	0,900
50 / 2"	52	53	2"	60.3	1,000
65 / 2½"	-	70	2½"	76	1,900
80 / 3"	-	85	3"	88.9	2,100
100 / 4"	-	104	4"	-	2,600

pipe expander (949)



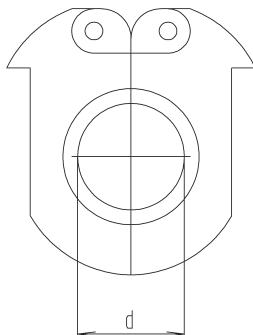
DN	b	l	weight (kg)
10	8	118	0,350
15	8	129	0,370
20	8	140	0,380
25 / 1"	12	159	0,700
32 / 1¼"	12	171	1,050
40 / 1½"	14	176	1,540
50 / 2"	14	180	2,370
65 / 2½"	16	205	4,150
80 / 3"	22	238	7,900
100 / 4"	22	240	10,500

ratchet for pipe expander (950)



DN	b	weight (kg)
10-20	8	0,100
25-32	12	0,300
40-50	14	0,300
65	16	0,420
80-100	22	0,630

expanding appliance (948)



DN	d DIN	d SMS	weight (kg)
10	12	-	1,100
15	18	-	1,100
20	22	-	1,100
25 / 1"	28	25.4	1,200
32 / 1¼"	34	31.8	1,100
40 / 1½"	40	38.1	1,300
50 / 2"	52	50.8	1,700
65 / 2½"	70	63.5	2,200
80 / 3"	85	76.2	2,600
100 / 4"	104	101.6	3,900

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	DIN Ident number	DIN 11851 Reihe 2 Ident number	Zoll Ident number	ISO Ident number
10	● 899.04.6X0.0003	○ 899.04.6X0.0030	-	-
15	● 899.06.6X0.0003	○ 899.06.6X0.0030	-	-
20	● 899.07.6X0.0003	○ 899.07.6X0.0030	-	-
25 / 1"	● 899.08.6X0.0003	○ 899.08.6X0.0030	● 899.08.6X0.0005	○ 899.08.6X0.0042
32 / 1¼"	● 899.09.6X0.0003	○ 899.09.6X0.0030	○ 899.09.6X0.0005	○ 899.09.6X0.0042
40 / 1½"	● 899.10.6X0.0003	○ 899.10.6X0.0030	● 899.10.6X0.0005	○ 899.10.6X0.0042
50 / 2"	● 899.11.6X0.0003	○ 899.11.6X0.0030	● 899.11.6X0.0005	○ 899.11.6X0.0042
65 / 2½"	● 899.12.6X0.0003	-	● 899.12.6X0.0005	○ 899.12.6X0.0042
80 / 3"	● 899.14.6X0.0003	-	● 899.13.6X0.0005	○ 899.14.6X0.0042
100 / 4"	● 899.15.6X0.0003	-	● 899.15.6X0.0005	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	DIN Ident number	Zoll Ident number
10	● 899.04.6X0.0001	-
15	● 899.06.6X0.0001	-
20	● 899.07.6X0.0001	-
25 / 1"	● 899.08.6X0.0001	● 899.08.6X0.0006
32 / 1¼"	● 899.09.6X0.0001	● 899.09.6X0.0006
40 / 1½"	● 899.10.6X0.0001	● 899.10.6X0.0006
50 / 2"	● 899.11.6X0.0001	● 899.11.6X0.0006
65 / 2½"	● 899.12.6X0.0001	● 899.12.6X0.0006
80 / 3"	● 899.14.6X0.0001	○ 899.14.6X0.0006
100 / 4"	○ 899.15.6X0.0001	○ 899.15.6X0.0006

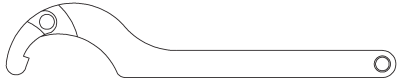
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	Ident number
10-20	○ 899.04.6X0.0002
25-32	● 899.08.6X0.0002
40-50	● 899.10.6X0.0002
65	○ 899.12.6X0.0002
80-100	○ 899.14.6X0.0002

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

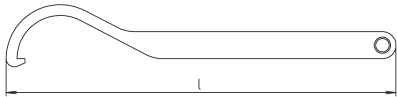
DN	DIN Ident number	SMS Ident number
10	○ 899.04.6X0.0066	-
15	○ 899.06.6X0.0066	-
20	○ 899.07.6X0.0066	-
25 / 1"	○ 899.08.6X0.0066	○ 899.08.6X0.0049
32 / 1¼"	○ 899.09.6X0.0066	○ 899.09.6X0.0049
40 / 1½"	○ 899.10.6X0.0066	○ 899.10.6X0.0049
50 / 2"	○ 899.11.6X0.0066	○ 899.11.6X0.0049
65 / 2½"	○ 899.12.6X0.0066	○ 899.12.6X0.0049
80 / 3"	○ 899.14.6X0.0066	○ 899.14.6X0.0049
100 / 4"	○ 899.15.6X0.0066	-

c-spanner with hinge (953)



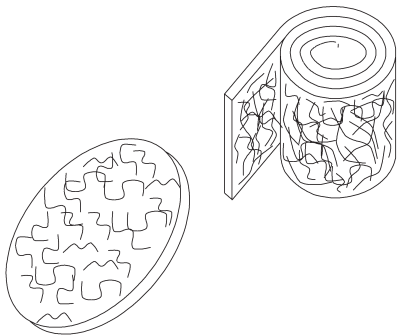
DN	weight (kg)
10-20	0,090
25-40	0,290
50-80	0,440
100-150	1,150

c-spanner (952)



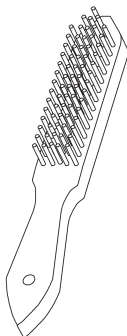
DN	l	weight (kg)
25-65	300	0,410
80-100	400	0,460
125	575	3,530
150	610	4,500

scouring pads, coil



DN	weight (kg)
115	-
10 m	-

stainless steel wire brush



DN	weight (kg)
4-reihig	-
5-reihig	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	steel nickleized Ident number	304 Ident number
10-20	○ 899.04.6X0.0004	○ 899046100004
25-40	● 899.08.6X0.0004	○ 899086100004
50-80	○ 899.11.6X0.0004	○ 899116100004
100-150	○ 899.15.6X0.0004	○ 899156100004

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number
25-65	● 189.08.110.0000
80-100	● 189.14.110.0000
125	● 189.16.110.0000
150	● 189.17.110.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	Ident number
115	○ 897.00.690.0001
10 m	○ 897.00.690.0125

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	wood / stainlss steel Ident number
4-reihig	○ 897.04.620.0002
5-reihig	○ 897.05.620.0002

2.4 Structural tubes, bars and rods

2.4.1 Constructions tubes page

Technical information

Protecting tubes for cable	
Handrail tubes	
Construction tubes	

2.4.2 Structural tubes

Square tubes I	
Rectangular tubes	

2.4.3 Bars

Flat bars	
Round bars	
Angel bars	

2.4 Structural tubes, bars and rods

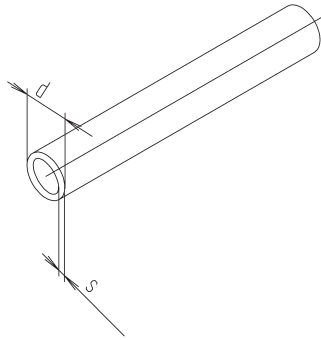
2.4.1 Structural tubes

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Electric wire protection tube.....	2.4.1-1
Decoration tubing.....	2.4.1-1
Support and construction tubing.....	2.4.1-1

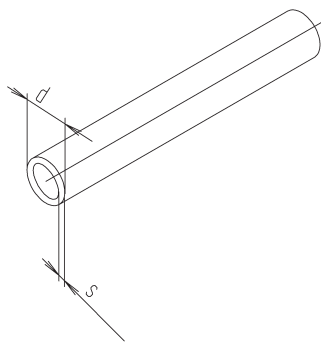
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electric wire protective tube



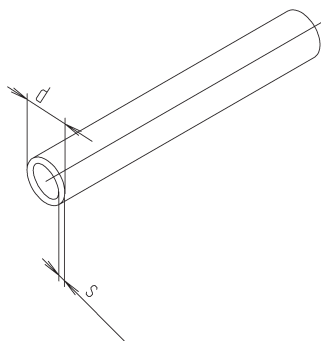
DN	d	s	weight (kg)
15	18	1	0,426
20	20	1	0,526
25	28	1	0,676
32	34	1	0,826
40	40	1	0,977
50	52	1	1,277
65	70	2	3,405

decoration tubing



DN	d	s	weight (kg)
25	28	2	1,283
32	34	2	1,578
40	40	2	1,874
50	50	4	4,538
50	54	2	2,565
65	70	2	3,405

support and construction tubing



DN	d	s	weight (kg)
25	28	2	1,283
32	34	2	1,578
40	40	2	1,874
50	54	2	2,565
65	70	2	3,405

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

304	
DN	Ident number
15	○ R11.06.610.1000
20	○ R11.07.610.1000
25	○ R11.08.610.1000
32	○ R11.09.610.1000
40	○ R11.10.610.1000
50	○ R11.11.610.1000
65	○ R11.12.610.1000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

304 outside grinded	
DN	Ident number
25	○ 612.00.410.0810
32	○ 612.00.410.0811
40	○ 612.00.410.0813
50	○ 612.00.410.0815
50	○ 612.00.410.0816
65	○ 612.00.410.1000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

304	
DN	Ident number
25	○ 611.00.610.0810
32	○ 611.00.610.0811
40	○ 611.00.610.0813
50	○ 611.00.610.0816
65	○ 611.00.610.1000

2.4 Structural tubes, bars and rods

2.4.2 Rectangular tubes

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Square tubing.....	2.4.2-I
Rectangular tubing.....	2.4.2-I

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DN	304 pickled	304 grinded
	Ident number	Ident number
20	● 641.00.610.0090	○ 641.00.410.0090
30	○ 641.00.610.0092	○ 641.00.410.0092
30	● 641.00.610.0093	○ 641.00.410.0093
40	● 641.00.610.0133	○ 641.00.410.0133
40	● 641.00.610.0135	○ 641.00.410.0135
50	○ 641.00.610.0153	○ 641.00.410.0153
50	● 641.00.610.0155	○ 641.00.410.0155
60	○ 641.00.610.0173	○ 641.00.410.0173
60	● 641.00.610.0175	● 641.00.410.0175
80	● 641.00.610.0215	○ 641.00.410.0215
80	○ 641.00.610.0217	○ 641.00.410.0217
100	● 641.00.610.0247	○ 641.00.410.0247
120	○ 641.00.610.0099	○ 641.00.410.0099

square tubing

DN	Ident number	Ident number	Ident number
20	○ 651.00.610.0010	○ 651.00.410.0010	-
30	○ 651.00.610.0083	○ 651.00.410.0083	-
40	● 651.00.610.0073	○ 651.00.410.0073	-
40	○ 651.00.610.0074	○ 651.00.410.0074	-
50	○ 651.00.610.0084	○ 651.00.410.0084	-
50	○ 651.00.610.0508	○ 651.00.410.0508	-
60	● 651.00.610.0233	○ 651.00.410.0233	-
60	● 651.00.610.0235	○ 651.00.410.0235	-
80	● 651.00.610.0503	○ 651.00.410.0503	-
80	● 651.00.610.0505	○ 651.00.410.0505	-
100	○ 651.00.610.0270	○ 651.00.410.0270	-
100	● 651.00.610.0273	○ 651.00.410.0273	-
120	○ 651.00.610.0316	○ 651.00.410.0316	-
150	○ 651.00.610.0509	○ 651.00.410.0509	-

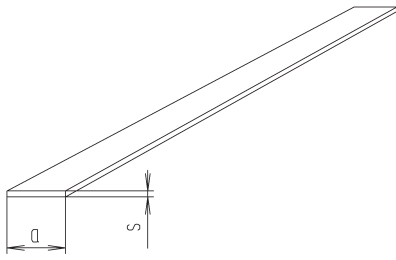
rectangular tubing

2.4 Structural tubes, bars and rods

2.4.3 Bars and rods

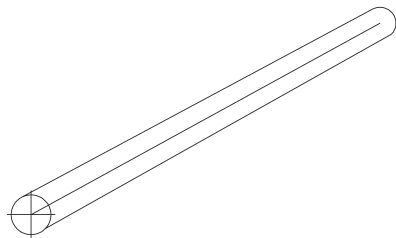
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Flat steel	2.4.3-I
Metal rods	2.4.3-I
Angle steel.....	2.4.3-I

flat steel



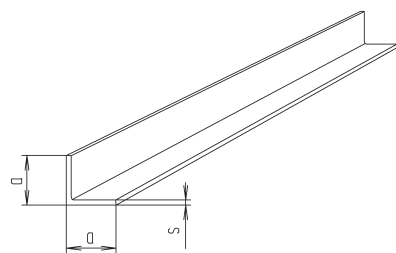
DN	a	s	weight (kg)
30	30	5	1,180
40	40	5	1,570
50	50	5	1,960
60	60	6	2,830
80	80	6	3,770
100	100	8	6,280

metal rods



DN	dimensions	weight (kg)
3	3 mm	0,055
4	4 mm	0,099
5	5 mm	0,154
6	6 mm	0,222
8	8 mm	0,395
10	10 mm	0,617
12	12 mm	0,888
13	13 mm	1,042
14	14 mm	1,208
15	15 mm	1,387
16	16 mm	1,587
17	17 mm	1,782
20	20 mm	2,466
22	22 mm	2,984
25	25 mm	3,853
27	27 mm	4,495
30	30 mm	5,549
32	32 mm	6,313
40	40 mm	9,865
42	42 mm	10,880
50	50 mm	15,410

stainless steel angle bar



DN	a	s	weight (kg)
30	30	4	1,780
40	40	5	2,970
50	50	5	3,770
60	60	6	5,420
80	80	8	9,660
20	20	3	0,880
25	25	3	1,120
30	30	3	1,360
35	35	4	2,100
40	40	4	2,420
100	100	10	15,000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 pickled Ident number
30	● 421.00.610.0035
40	● 421.00.610.0056
50	● 421.00.610.0080
60	● 421.00.610.0104
80	● 421.00.610.0153
100	● 421.00.610.0181

weights are valid for material made of stainless steel only

metal rods

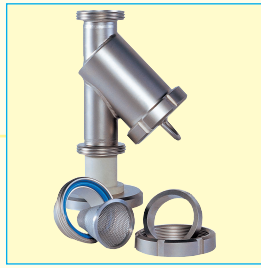
DN	Ident number
3	○ 413.00.610.0020
4	○ 413.00.610.0022
5	○ 413.00.610.0024
6	○ 413.00.610.0026
8	○ 413.00.610.0031
10	○ 413.00.610.0035
12	○ 413.00.610.0039
13	○ 413.00.610.0040
14	○ 413.00.610.0043
15	○ 413.00.610.0045
16	○ 413.00.610.0047
17	- -
20	○ 413.00.610.0052
22	○ 413.00.610.0054
25	○ 413.00.610.0057
27	- -
30	○ 413.00.610.0062
32	- -
40	○ 413.00.610.0070
42	- -
50	○ 413.00.610.0076

weights are valid for material made of stainless steel only

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 pickled Ident number
30	○ 451.00.610.0004
40	● 451.00.610.0007
50	● 451.00.610.0009
60	○ 451.00.610.0010
80	○ 451.00.610.0012
20	○ 451.00.610.0000
25	○ 451.00.610.0002
30	○ 451.00.610.0003
35	○ 451.00.610.0005
40	○ 451.00.610.0006
100	○ 451.00.610.0013

filters, sight glasses



3. Strainers and sight glasses



Strainers

3.1



Sight glasses

3.2

3.1 Strainers

3.1.1 Angular filters

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Technical information

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Angular filters with heating jacket welding ends DIN	1
Angular filters welding ends inch OD	3
Angular filters male ends DIN	3
Strainers for angular filters	5
Strainers for angular filters slotted type	5

3.1.2 Passage filters

Passage filters between flanges DIN	1
Passage filters between flanges inch OD	1
Strainers for passage filters	3

3.1.3 Dirt collecting filter

Dirt collecting filter welding ends DIN	1
Dirt collecting filter welding ends inch OD	1
Dirt collecting filter male ends	1
Strainers for dirt collecting filter	1

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3.1 Strainers

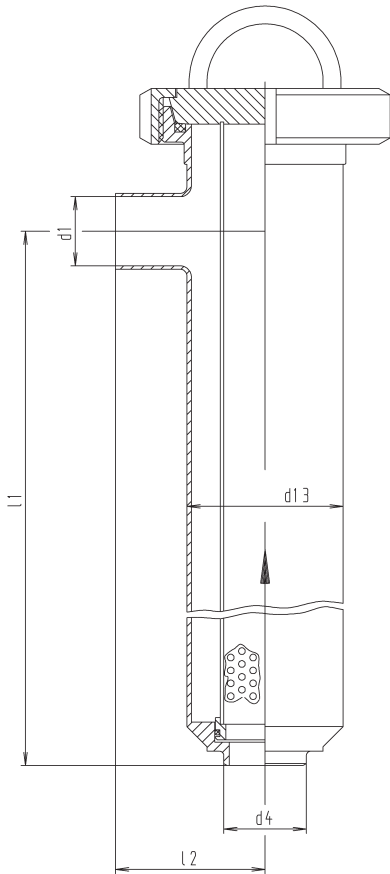
3.1.1 Angular filters

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Technical information

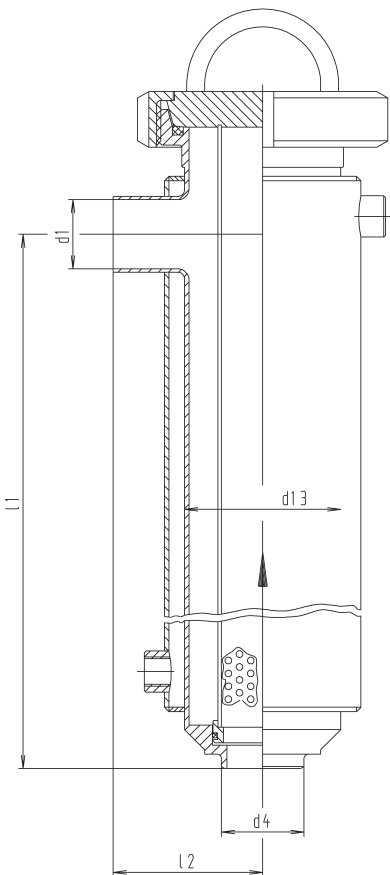
angular filter, angular body, weld ends, DIN (701S)	3.1.1-1
angular filter, with heating jacket, weld ends, DIN (701H)	3.1.1-1
angular filter, weld ends, inch OD (701Z)	3.1.1-3
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angular filter, angular body, weld ends, DIN (70IS)



DN	d1	d4	d13	l1	l2	weight (kg)
25	26	31	70	316	68	-
32	32	37	70	316	68	-
40	38	43	104	329	93	-
50	50	55	104	329	92	-
65	66	72	104	314	90	-
80	81	87	129	548	135	-
100	100	106	154	546	130	-
125	125	132	180	554	164	-
150	150	155	206	613	203	-

angular filter, with heating jacket, weld ends, DIN (70IH)



DN	d1	d4	d13	l1	l2	weight (kg)
25	26	31	70	316	68	-
32	32	37	70	316	68	-
40	38	43	104	329	93	-
50	50	55	104	329	92	-
65	66	72	104	314	90	-
80	81	87	129	548	135	-
100	100	106	154	546	130	-
125	125	132	180	554	164	-
150	150	155	206	613	203	-

angular filter, angular-body, weld ends, DIN (70IS)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 171.08.110.0003	○ 171.08.210.0003	○ 171.08.120.0003	○ 171.08.220.0003
32	○ 171.09.110.0003	○ 171.09.210.0003	○ 171.09.120.0003	○ 171.09.220.0003
40	○ 171.10.110.0003	○ 171.10.210.0003	○ 171.10.120.0003	○ 171.10.220.0003
50	○ 171.11.110.0003	○ 171.11.210.0003	○ 171.11.120.0003	○ 171.11.220.0003
65	○ 171.12.110.0003	○ 171.12.210.0003	○ 171.12.120.0003	○ 171.12.220.0003
80	○ 171.14.110.0003	○ 171.14.210.0003	○ 171.14.120.0003	○ 171.14.220.0003
100	● 171.15.110.0003	○ 171.15.210.0003	○ 171.15.120.0003	○ 171.15.220.0003
125	○ 171.16.110.0003	○ 171.16.210.0003	○ 171.16.120.0003	○ 171.16.220.0003
150	○ 171.17.110.0003	○ 171.17.210.0003	○ 171.17.120.0003	○ 171.17.220.0003

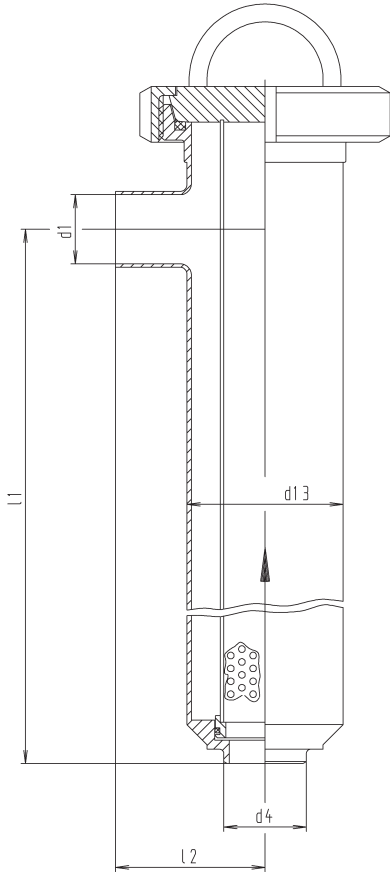
standard gasket NBR considered, other material on demand

angular filter, with heating jacket, weld ends, DIN (70IH)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 171.08.110.0004	○ 171.08.210.0004	○ 171.08.120.0004	○ 171.08.220.0004
32	○ 171.09.110.0004	○ 171.09.210.0004	○ 171.09.120.0004	○ 171.09.220.0004
40	○ 171.10.110.0004	○ 171.10.210.0004	○ 171.10.120.0004	○ 171.10.220.0004
50	○ 171.11.110.0004	○ 171.11.210.0004	○ 171.11.120.0004	○ 171.11.220.0004
65	○ 171.12.110.0004	○ 171.12.210.0004	○ 171.12.120.0004	○ 171.12.220.0004
80	○ 171.14.110.0004	○ 171.14.210.0004	○ 171.14.120.0004	○ 171.14.220.0004
100	○ 171.15.110.0004	○ 171.15.210.0004	○ 171.15.120.0004	○ 171.15.220.0004
125	○ 171.16.110.0004	○ 171.16.210.0004	○ 171.16.120.0004	○ 171.16.220.0004
150	○ 171.17.110.0004	○ 171.17.210.0004	○ 171.17.120.0004	○ 171.17.220.0004

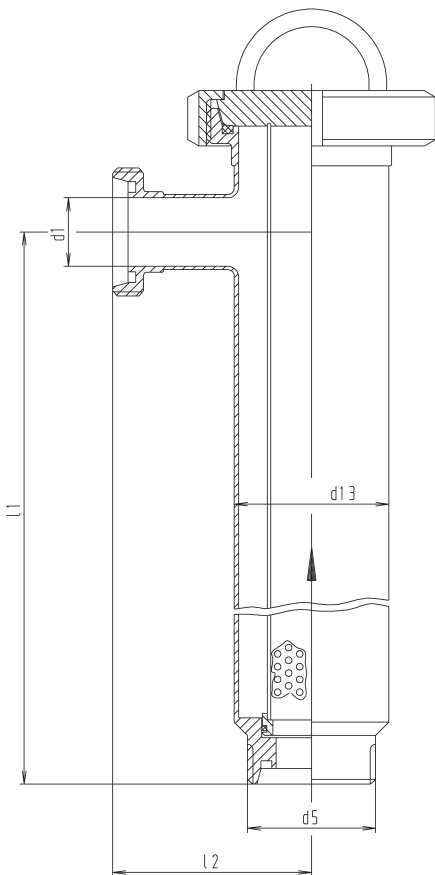
standard gasket NBR considered, other material on demand

angular filter, weld ends, inch OD (70IZ)



DN	d1	d4	d13	l1	l2	weight (kg)
1"	22.1	25.4	70	316	68	-
1½"	34.8	38.1	104	329	93	-
2"	47.5	50.8	104	329	92	-
2½"	60.2	63.5	104	314	90	-
3"	72.9	76.2	129	548	135	-
4"	97.4	101.6	154	546	130	-

angular filter, male/male, DIN (70I)



DN	d1	d5	d13	l1	l2	weight (kg)
25	26	52x1/6"	70	327	90	3,300
32	32	58x1/6"	70	327	90	3,400
40	38	65x1/6"	104	340	115	6,190
50	50	78x1/6"	104	340	115	6,200
65	66	95x1/6"	104	325	115	6,500
80	81	110x1/4"	129	560	160	11,800
100	100	130x1/4"	154	560	160	16,280
125	125	160x1/4"	180	560	200	21,450
150	150	190x1/4"	206	620	240	-

angular filter, weld ends, inch OD (70 IZ)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 171.08.110.0013	○ 171.08.210.0013	○ 171.08.120.0013	○ 171.08.220.0013
1½"	○ 171.10.110.0013	○ 171.10.210.0013	○ 171.10.120.0013	○ 171.10.220.0013
2"	○ 171.11.110.0013	○ 171.11.210.0013	○ 171.11.120.0013	○ 171.11.220.0013
2½"	○ 171.12.110.0013	○ 171.12.210.0013	○ 171.12.120.0013	○ 171.12.220.0013
3"	○ 171.13.110.0013	○ 171.13.210.0013	○ 171.13.120.0013	○ 171.13.220.0013
4"	○ 171.15.110.0013	○ 171.15.210.0013	○ 171.15.120.0013	○ 171.15.220.0013

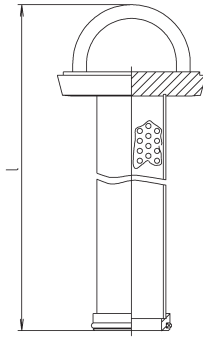
standard gasket NBR considered, other material on demand

angular filter, male/male, DIN (70 I)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 171.08.110.0000	○ 171.08.210.0000	○ 171.08.120.0000	○ 171.08.220.0000
32	● 171.09.110.0000	○ 171.09.210.0000	○ 171.09.120.0000	○ 171.09.220.0000
40	● 171.10.110.0000	○ 171.10.210.0000	○ 171.10.120.0000	○ 171.10.220.0000
50	● 171.11.110.0000	○ 171.11.210.0000	○ 171.11.120.0000	○ 171.11.220.0000
65	● 171.12.110.0000	● 171.12.210.0000	○ 171.12.120.0000	○ 171.12.220.0000
80	○ 171.14.110.0000	○ 171.14.210.0000	○ 171.14.120.0000	○ 171.14.220.0000
100	○ 171.15.110.0000	○ 171.15.210.0000	○ 171.15.120.0000	○ 171.15.220.0000
125	○ 171.16.110.0000	○ 171.16.210.0000	○ 171.16.120.0000	○ 171.16.220.0000
150	○ 171.17.110.0000	○ 171.17.210.0000	○ 171.17.120.0000	○ 171.17.220.0000

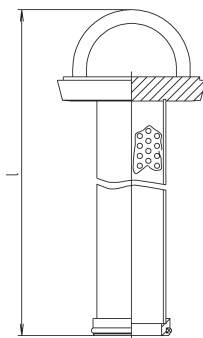
standard gasket NBR considered, other material on demand

strainer for angular filter, 1,5 mm round hole perforation (701A)



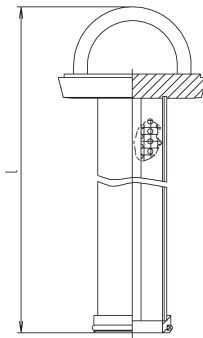
DN	l	weight (kg)
25-32 / 1"	422	0,970
40 - 65	479	2,310
1½"-2½"	479	2,310
80 / 3"	810	3,700
100 / 4"	793	5,400
125	837	-
150	928	-

strainer for angular filter, individual round hole perforation



DN	l	weight (kg)
25-32 / 1"	422	-
40 - 65	479	-
1½" - 2½"	479	-
80 / 3"	810	-
100 / 4"	793	-
125	837	-
150	928	-

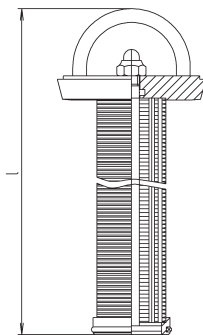
strainer for angular filter, with gaze inside (701B)



DN	l	weight (kg)
25-32 / 1"	422	1,170
40 - 65	479	2,510
1½"-2½"	479	2,510
80 / 3"	810	3,920
100 / 4"	793	5,620
125	837	-
150	928	-

strainer for angular filter, slotted tube type (R-design: inside->outside) (710D)

nocapius



DN	l	weight (kg)
25-32 / 1"	422	-
40 - 65	479	-
1½"-2½"	479	-
80 / 3"	810	-
100 / 4"	793	-
125	837	-
150	928	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25-32 / 1"	○ 171.08.110.0001	○ 171.08.210.0001	○ 171.08.120.0001	○ 171.08.220.0001
40 - 65	○ 171.10.110.0001	○ 171.10.210.0001	○ 171.10.120.0001	○ 171.10.220.0001
1½"-2½"	○ 171.10.110.0001	○ 171.10.210.0001	○ 171.10.120.0001	○ 171.10.220.0001
80 / 3"	○ 171.14.110.0001	○ 171.14.210.0001	○ 171.14.120.0001	○ 171.14.220.0001
100 / 4"	○ 171.15.110.0001	○ 171.15.210.0001	○ 171.15.120.0001	○ 171.15.220.0001
125	○ 171.16.110.0001	○ 171.16.210.0001	○ 171.16.120.0001	○ 171.16.220.0001
150	○ 171.17.110.0001	○ 171.17.210.0001	○ 171.17.120.0001	○ 171.17.220.0001
standard gasket NBR considered, other material on demand				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25-32 / 1"	○ 171.08.110.0020	○ 171.08.210.0020	○ 171.08.120.0020	○ 171.08.220.0020
40 - 65	○ 171.10.110.0020	○ 171.10.210.0020	○ 171.10.120.0020	○ 171.10.220.0020
1½"-2½"	○ 171.10.110.0020	○ 171.10.210.0020	○ 171.10.120.0020	○ 171.10.220.0020
80 / 3"	○ 171.14.110.0020	○ 171.14.210.0020	○ 171.14.120.0020	○ 171.14.220.0020
100 / 4"	○ 171.15.110.0020	○ 171.15.210.0020	○ 171.15.120.0020	○ 171.15.220.0020
125	○ 171.16.110.0020	○ 171.16.210.0020	○ 171.16.120.0020	○ 171.16.220.0020
150	○ 171.17.110.0020	○ 171.17.210.0020	○ 171.17.120.0020	○ 171.17.220.0020
standard gasket NBR considered, other material on demand				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25-32 / 1"	○ 171.08.110.0002	○ 171.08.210.0002	○ 171.08.120.0002	○ 171.08.220.0002
40 - 65	○ 171.10.110.0002	○ 171.10.210.0002	○ 171.10.120.0002	○ 171.10.220.0002
1½"-2½"	○ 171.10.110.0002	○ 171.10.210.0002	○ 171.10.120.0002	○ 171.10.220.0002
80 / 3"	○ 171.14.110.0002	○ 171.14.210.0002	○ 171.14.120.0002	○ 171.14.220.0002
100 / 4"	○ 171.15.110.0002	○ 171.15.210.0002	○ 171.15.120.0002	○ 171.15.220.0002
125	○ 171.16.110.0002	○ 171.16.210.0002	○ 171.16.120.0002	○ 171.16.220.0002
150	○ 171.17.110.0002	○ 171.17.210.0002	○ 171.17.120.0002	○ 171.17.220.0002
standard gasket NBR considered, other material on demand				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

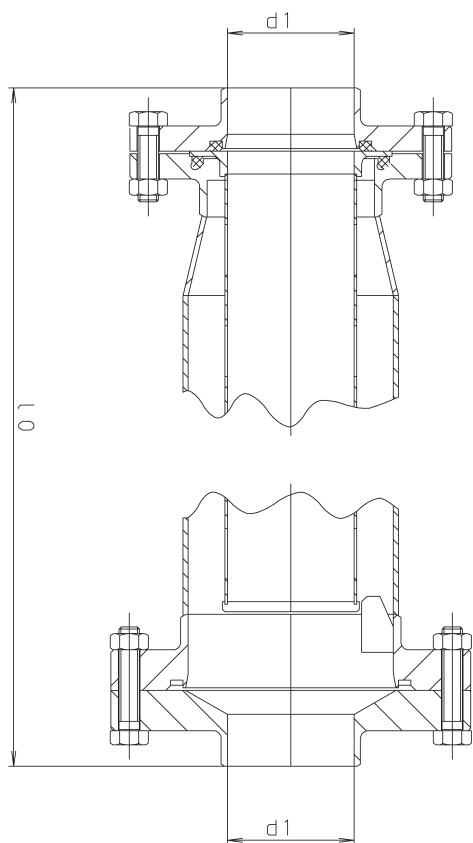
DN	316 L pol. gap 0,5 Ident number	316 L pol. gap 0,2 Ident number	316 L pol. gap 0,1 Ident number	316 L pol. gap 0,05 Ident number
25-32 / 1"	○ 171.08.127.0024	○ 171.08.127.0023	○ 171.08.127.0022	○ 171.08.127.0021
40 - 65	○ 171.10.127.0024	○ 171.10.127.0023	○ 171.10.127.0022	○ 171.10.127.0021
1½"-2½"	○ 171.10.127.0024	○ 171.10.127.0023	○ 171.10.127.0022	○ 171.10.127.0021
80 / 3"	○ 171.14.127.0024	○ 171.14.127.0023	○ 171.14.127.0022	○ 171.14.127.0021
100 / 4"	○ 171.15.127.0024	○ 171.15.127.0023	○ 171.15.127.0022	○ 171.15.127.0021
125	○ 171.16.127.0024	○ 171.16.127.0023	○ 171.16.127.0022	○ 171.16.127.0021
150	○ 171.17.127.0024	○ 171.17.127.0023	○ 171.17.127.0022	○ 171.17.127.0021
standard gasket NBR considered, other material on demand				

3.1. Strainers

3.1.2 Strainers • Passage filters

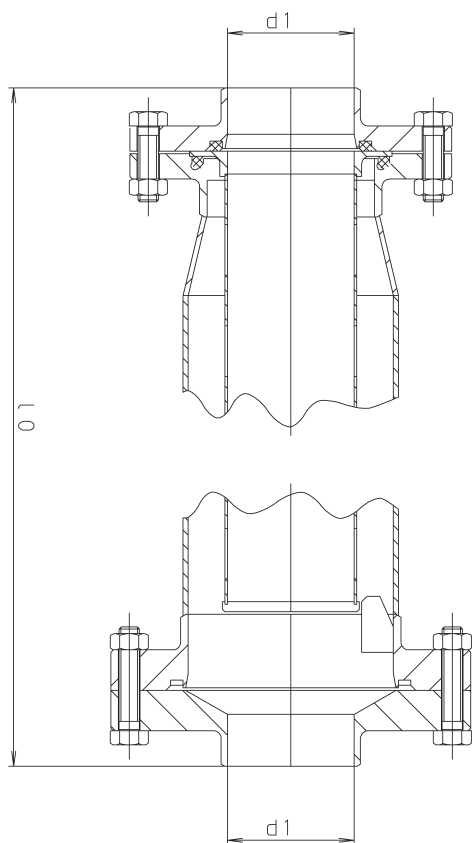
	page
Passage filter, betw. flanges, DIN (702)	3.1.2-1
Passage filter, betw. flanges, inch OD (702Z).....	3.1.2-1
Strainer for passage filter, 1.5 mm round hole perfor. (702A)	3.1.2-3
Strainer for passage filter, with gauze inside (702B).....	3.1.2-3

passage filter, betw. flanges, DIN (702)



DN	d1	I0	weight (kg)
25	26	473	-
32	32	477	-
40	38	470	-
50	50	508	-
65	66	551	-
80	81	870	-
100	100	900	-

passage filter, betw. flanges, inch OD (702Z)



DN	d1	I0	weight (kg)
1"	22.1	473	-
1½"	34.8	470	-
2"	47.5	508	-
2½"	60.3	551	-
3"	72.9	870	-
4"	97.4	900	-

passage filter, betw. flanges, DIN (702)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 171.08.110.0018	○ 171.08.210.0018	○ 171.08.120.0018	○ 171.08.220.0018
32	○ 171.09.110.0018	○ 171.09.210.0018	○ 171.09.120.0018	○ 171.09.220.0018
40	○ 171.10.110.0018	○ 171.10.210.0018	○ 171.10.120.0018	○ 171.10.220.0018
50	○ 171.11.110.0018	○ 171.11.210.0018	○ 171.11.120.0018	○ 171.11.220.0018
65	○ 171.12.110.0018	○ 171.12.210.0018	○ 171.12.120.0018	○ 171.12.220.0018
80	○ 171.14.110.0018	○ 171.14.210.0018	○ 171.14.120.0018	○ 171.14.220.0018
100	○ 171.15.110.0018	○ 171.15.210.0018	○ 171.15.120.0018	○ 171.15.220.0018

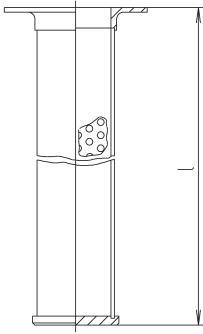
standard gasket NBR considered, other material on demand

passage filter, betw. flanges, inch OD (702Z)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 171.08.110.0019	○ 171.08.210.0019	○ 171.08.120.0019	○ 171.08.220.0019
1½"	○ 171.10.110.0019	○ 171.10.210.0019	○ 171.10.120.0019	○ 171.10.220.0019
2"	○ 171.11.110.0019	○ 171.11.210.0019	○ 171.11.120.0019	○ 171.11.220.0019
2½"	○ 171.12.110.0019	○ 171.12.210.0019	○ 171.12.120.0019	○ 171.12.220.0019
3"	○ 171.13.110.0019	○ 171.13.210.0019	○ 171.13.120.0019	○ 171.13.220.0019
4"	○ 171.15.110.0019	○ 171.15.210.0019	○ 171.15.120.0019	○ 171.15.220.0019

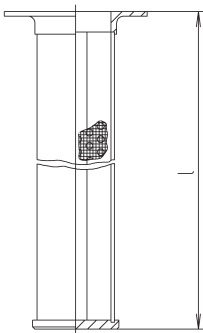
standard gasket NBR considered, other material on demand

strainer for passage filter, 1.5 mm round hole perfor. (702A)



DN	l	weight (kg)
25 / 1"	405	0,200
32	398	0,300
40 / 1½"	398	0,400
50 / 2"	422	0,500
65 / 2½"	445	0,800
3"	750	1,300
80	750	1,400
100 / 4"	750	1,900

strainer for passage filter, with gauze inside (702B)



DN	l	weight (kg)
25 / 1"	405	0,200
32	398	0,300
40 / 1½"	398	0,400
50 / 2"	422	0,500
65 / 2½"	445	0,800
3"	750	1,300
80	750	1,400
100 / 4"	750	1,900

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	316 L polished Ident number
25 / 1"	○ 171.08.110.0011	○ 171.08.120.0011
32	○ 171.09.110.0011	○ 171.09.120.0011
40 / 1½"	○ 171.10.110.0011	○ 171.10.120.0011
50 / 2"	○ 171.11.110.0011	○ 171.11.120.0011
65 / 2½"	○ 171.12.110.0011	○ 171.12.120.0011
3"	○ 171.13.110.0011	○ 171.13.120.0011
80	○ 171.14.110.0011	○ 171.14.120.0011
100 / 4"	○ 171.15.110.0011	○ 171.15.120.0011

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	316 L polished Ident number
25 / 1"	○ 171.08.110.0012	○ 171.08.120.0012
32	○ 171.09.110.0012	○ 171.09.120.0012
40 / 1½"	○ 171.10.110.0012	○ 171.10.120.0012
50 / 2"	○ 171.11.110.0012	○ 171.11.120.0012
65 / 2½"	○ 171.12.110.0012	○ 171.12.120.0012
3"	○ 171.13.110.0012	○ 171.13.120.0012
80	○ 171.14.110.0012	○ 171.14.120.0012
100 / 4"	○ 171.15.110.0012	○ 171.15.120.0012

3.1. Strainers

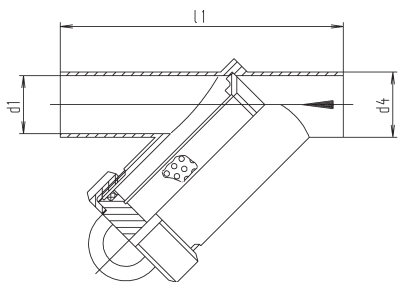
3.1.3 Strainers • Dirt collecting filter	page
Dirt collecting filter, weld ends, DIN (703).....	3.1.3-1
Dirt collecting filter, weld ends, inch OD (703Z).....	3.1.3-1
Dirt collecting filter, male/male, DIN (703).....	3.1.3-1
Strainer for dirt collecting filter, 1.5 mm round hole perfor. (703A).....	3.1.3-1
Strainer for dirt collecting filter, gauze (703B).....	3.1.3-3

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Back

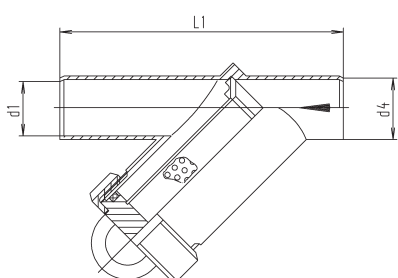
Back

dirt collecting filter, weld ends, DIN (703)



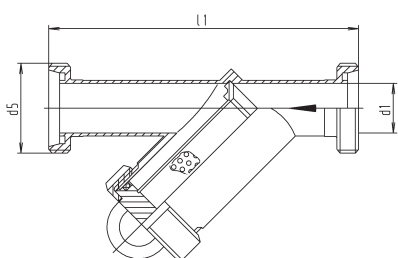
DN	d1	d4	l1	weight (kg)
25	26	30	157	-
32	32	36	157	-
40	38	42	167	-
50	50	54	175	-
65	66	70	231	-
80	81	85	271	-
100	100	104	291	-

dirt collecting filter, weld ends, inch OD (703Z)



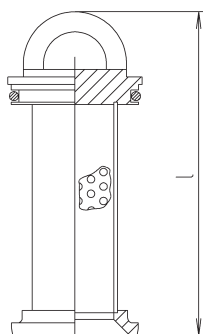
DN	d1	d4	l1	weight (kg)
1"	22.1	25.4	157	-
1½"	34.8	38.1	167	-
2"	47.5	50.8	175	-
2½"	60.2	63.5	231	-
3"	72.9	76.2	271	-
4"	97.4	101.6	291	-

dirt collecting filter, male/male, DIN (703)



DN	d1	d5	l1	weight (kg)
25	26	52x1/6"	200	3,700
32	32	58x1/6"	200	4,350
40	38	65x1/6"	210	5,200
50	50	78x1/6"	220	7,000
65	66	95x1/6"	280	11,900
80	81	110x1/4"	320	-
100	100	130x1/4"	350	-

strainer for dirt collecting filter, 1.5 mm round hole perfor. (703A)



DN	l	weight (kg)
25 / 1"	128	0,200
32	129	0,300
40 / 1½"	141	0,400
50 / 2"	173	0,500
65 / 2½"	248	0,800
80	279	1,400
100	287	1,900

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	○ 172.08.110.0020	○ 172.08.210.0020	○ 172.08.120.0020	○ 172.08.220.0020
32	○ 172.09.110.0020	○ 172.09.210.0020	○ 172.09.120.0020	○ 172.09.220.0020
40	○ 172.10.110.0020	○ 172.10.210.0020	○ 172.10.120.0020	○ 172.10.220.0020
50	○ 172.11.110.0020	○ 172.11.210.0020	○ 172.11.120.0020	○ 172.11.220.0020
65	○ 172.12.110.0020	○ 172.12.210.0020	○ 172.12.120.0020	○ 172.12.220.0020
80	○ 172.14.110.0020	○ 172.14.210.0020	○ 172.14.120.0020	○ 172.14.220.0020
100	○ 172.15.110.0020	○ 172.15.210.0020	○ 172.15.120.0020	○ 172.15.220.0020
standard gasket NBR considered, other material on demand				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
1"	○ 172.08.110.0015	○ 172.08.210.0015	○ 172.08.120.0015	○ 172.08.220.0015
1½"	○ 172.10.110.0015	○ 172.10.210.0015	○ 172.10.120.0015	○ 172.10.220.0015
2"	○ 172.11.110.0015	○ 172.11.210.0015	○ 172.11.120.0015	○ 172.11.220.0015
2½"	○ 172.12.110.0015	○ 172.12.210.0015	○ 172.12.120.0015	○ 172.12.220.0015
3"	○ 172.13.110.0015	○ 172.13.210.0015	○ 172.13.120.0015	○ 172.13.220.0015
4"	○ 172.15.110.0015	○ 172.15.210.0015	○ 172.15.120.0015	○ 172.15.220.0015
standard gasket NBR considered, other material on demand				

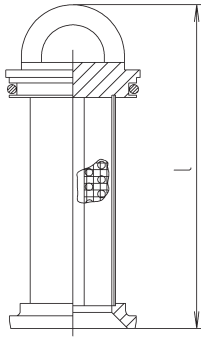
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25	● 172.08.110.0000	○ 172.08.210.0000	○ 172.08.120.0000	○ 172.08.220.0000
32	● 172.09.110.0000	○ 172.09.210.0000	○ 172.09.120.0000	○ 172.09.220.0000
40	● 172.10.110.0000	○ 172.10.210.0000	○ 172.10.120.0000	○ 172.10.220.0000
50	● 172.11.110.0000	○ 172.11.210.0000	○ 172.11.120.0000	○ 172.11.220.0000
65	● 172.12.110.0000	○ 172.12.210.0000	○ 172.12.120.0000	○ 172.12.220.0000
80	○ 172.14.110.0000	○ 172.14.210.0000	○ 172.14.120.0000	○ 172.14.220.0000
100	○ 172.15.110.0000	○ 172.15.210.0000	○ 172.15.120.0000	○ 172.15.220.0000
standard gasket NBR considered, other material on demand				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25 / 1"	○ 172.08.110.0001	○ 172.08.210.0001	○ 172.08.120.0001	○ 172.08.220.0001
32	○ 172.09.110.0001	○ 172.09.210.0001	○ 172.09.120.0001	○ 172.09.220.0001
40 / 1½"	○ 172.10.110.0001	○ 172.10.210.0001	○ 172.10.120.0001	○ 172.10.220.0001
50 / 2"	○ 172.11.110.0001	○ 172.11.210.0001	○ 172.11.120.0001	○ 172.11.220.0001
65 / 2½"	○ 172.12.110.0001	○ 172.12.210.0001	○ 172.12.120.0001	○ 172.12.220.0001
80	○ 172.14.110.0001	○ 172.14.210.0001	○ 172.14.120.0001	○ 172.14.220.0001
100	○ 172.15.110.0001	○ 172.15.210.0001	○ 172.15.120.0001	○ 172.15.220.0001
standard gasket NBR considered, other material on demand				

strainer for dirt collecting filter, gauze (703B)



DN	I	weight (kg)
25 / 1"	128	0,240
32	129	0,340
40 / 1½"	141	0,440
50 / 2"	173	0,550
65 / 2½"	248	0,860
80 / 3"	279	1,480
100 / 4"	287	1,990

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
25 / 1"	○ 172.08.110.0002	○ 172.08.210.0002	○ 172.08.120.0002	○ 172.08.220.0002
32	○ 172.09.110.0002	○ 172.09.210.0002	○ 172.09.120.0002	○ 172.09.220.0002
40 / 1½"	○ 172.10.110.0002	○ 172.10.210.0002	○ 172.10.120.0002	○ 172.10.220.0002
50 / 2"	○ 172.11.110.0002	○ 172.11.210.0002	○ 172.11.120.0002	○ 172.11.220.0002
65 / 2½"	○ 172.12.110.0002	○ 172.12.210.0002	○ 172.12.120.0002	○ 172.12.220.0002
80 / 3"	○ 172.14.110.0002	○ 172.14.210.0002	○ 172.14.120.0002	○ 172.14.220.0002
100 / 4"	○ 172.15.110.0002	○ 172.15.210.0002	○ 172.15.120.0002	○ 172.15.220.0002
standard gasket NBR considered, other material on demand				

3.2 Sight glasses

Technical information

3.2.1 Sight glass fitting

page

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Sight glass, weld end, DIN (787)	1
Sight glass, weld end, inch OD (787Z).....	1
Glass disk for sight glass, DIN or inch (788).....	3
Washer for sight glass, DIN or inch	3
Round nut for sight glass, DIN or inch	3

3.2.1 Sight glass with cross

Sight glass, cross type, weld ends (tubes similar DIN 11850) (786)	1
Sight glass, angle type, weld ends (tubes according DIN 11850 line 2) (786E)	1
Sight glass, cross type, weld ends, inch OD (786Z)	1

3.2.3 Sight glass cylindrical type

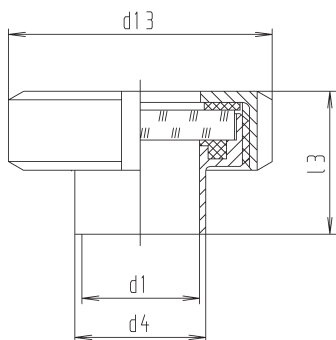
Sight glass cylindrical type, weld ends (tubes according DIN 11850 line 2) (779)	1
Sight glass cylindrical type, weld ends, DIN (799).....	1
Sight glass cylindrical type, weld ends, inch OD (779Z).....	1
Sight glass cylindrical type, male/male, DIN (788)	1
Sight glass cylindrical type, male/liner, DIN (781)	3
Sight glass cylindrical type, liner/liner, DIN (782).....	3
Glass tube for sight glass cylindrical type (783).....	3
Gasket for cylindrical sight glass (784).....	3
Safety screen for sight glass cylindrical type (785)	5

3.2 Sight glasses

3.2.1 Sight glasses

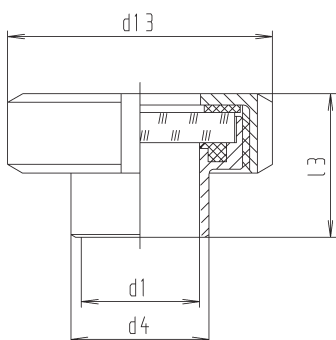
	page
Sight glass, weld end (for tubing acc. DIN 11850 line 2) (787N)	3.2.1-1
Sight glass, weld end, DIN (787).....	3.2.1-1
Sight glass, weld end, DIN (787).....	3.2.1-1
Sight glass, weld end, inch OD (787Z).....	3.2.1-1
Glass disk for sight glass DIN or inch (788)	3.2.1-3
Washer for sight glass DIN or inch.....	3.2.1-3
Nut for sight glass, DIN or inch	3.2.1-3

sight glass, weld end (for tubing acc. DIN 11850 line 2) (787N)



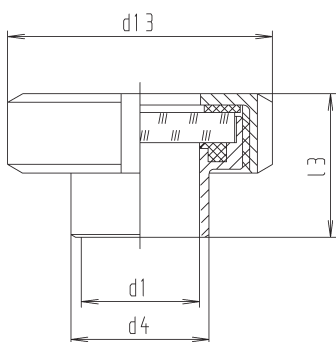
DN	d1	d4	d13	l3	weight (kg)
25	26	29	63	37	0,310
32	32	35	70	40	0,400
40	38	41	78	41	0,480
50	50	53	92	43	0,690
65	66	70	112	48	1,100
80	81	85	127	58	1,610
100	100	104	148	63	2,270
125	125	129	178	58	3,080
150	150	154	210	63	5,280

sight glass, weld end, DIN (787)



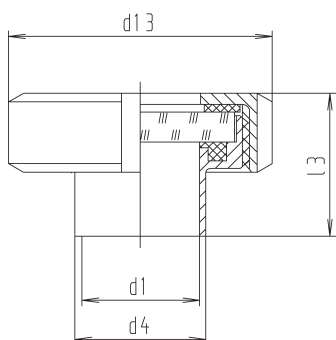
DN	d1	d4	d13	l3	weight (kg)
25	26	31	63	37	0,310
32	32	37	70	40	0,400
40	38	43	78	41	0,480
50	50	55	92	43	0,690
65	66	72	112	48	1,100
80	81	87	127	58	1,610
100	100	106	148	63	2,270
125	125	132	178	58	3,080
150	150	157	210	63	5,280

sight glass, weld end, DIN (787)



DN	d1	d4	d13	l3	weight (kg)
25	26	31	63	37	0,310
32	32	37	70	40	0,400
40	38	43	78	41	0,480
50	50	55	92	43	0,690
65	66	72	112	48	1,100
80	81	87	127	58	1,610
100	100	106	148	63	2,270
125	125	132	178	58	3,080
150	150	157	210	63	5,280

sight glass, weld end, inch OD (787Z)



DN	d1	d4	d13	l3	weight (kg)
1"	22.1	25.4	63	37	0,310
1½"	34.8	38.1	78	41	0,480
2"	47.5	50.8	92	43	0,690
2½"	60.2	63.5	112	48	1,100
3"	72.9	76.2	119	58	1,610
4"	97.4	101.6	148	63	2,270

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 borosilikat polished Ident number	304 hard glass polished Ident number	316 L borosilikat polished Ident number	316 L hard glass polished Ident number
25	○ 175.08.11D.0007	○ 175.08.11G.0007	○ 175.08.12D.0007	○ 175.08.12G.0007
32	○ 175.09.11D.0007	○ 175.09.11G.0007	○ 175.09.12D.0007	○ 175.09.12G.0007
40	○ 175.10.11D.0007	○ 175.10.11G.0007	○ 175.10.12D.0007	○ 175.10.12G.0007
50	○ 175.11.11D.0007	○ 175.11.11G.0007	○ 175.11.12D.0007	○ 175.11.12G.0007
65	○ 175.12.11D.0007	○ 175.12.11G.0007	○ 175.12.12D.0007	○ 175.12.12G.0007
80	○ 175.14.11D.0007	○ 175.14.11G.0007	○ 175.14.12D.0007	○ 175.14.12G.0007
100	○ 175.15.11D.0007	○ 175.15.11G.0007	○ 175.15.12D.0007	○ 175.15.12G.0007
125	○ 175.16.11D.0007	○ 175.16.11G.0007	○ 175.16.12D.0007	○ 175.16.12G.0007
150	○ 175.17.11D.0007	○ 175.17.11G.0007	○ 175.17.12D.0007	○ 175.17.12G.0007
matt finish on demand				

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 borosilikat polished Ident number	304 hard glass polished Ident number	316 L borosilikat polished Ident number	316 L hard glass polished Ident number
25	● 175.08.11D.0000	● 175.08.11G.0000	● 175.08.12D.0000	● 175.08.12G.0000
32	● 175.09.11D.0000	● 175.09.11G.0000	● 175.09.12D.0000	● 175.09.12G.0000
40	● 175.10.11D.0000	● 175.10.11G.0000	● 175.10.12D.0000	● 175.10.12G.0000
50	● 175.11.11D.0000	● 175.11.11G.0000	● 175.11.12D.0000	● 175.11.12G.0000
65	● 175.12.11D.0000	● 175.12.11G.0000	● 175.12.12D.0000	● 175.12.12G.0000
80	● 175.14.11D.0000	● 175.14.11G.0000	● 175.14.12D.0000	● 175.14.12G.0000
100	● 175.15.11D.0000	● 175.15.11G.0000	● 175.15.12D.0000	● 175.15.12G.0000
125	○ 175.16.11D.0000	● 175.16.11G.0000	○ 175.16.12D.0000	○ 175.16.12G.0000
150	○ 175.17.11D.0000	○ 175.17.11G.0000	○ 175.17.12D.0000	○ 175.17.12G.0000
matt finish on demand				

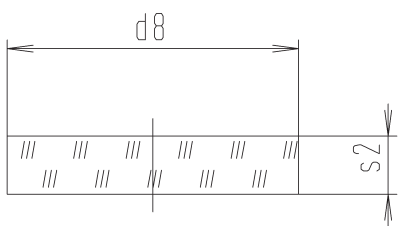
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L Borosilikatglas pol. Ident number
25	○ 175.08.12D.0300
32	○ 175.09.12D.0300
40	○ 175.10.12D.0300
50	○ 175.11.12D.0300
65	○ 175.12.12D.0300
80	○ 175.14.12D.0300
100	○ 175.15.12D.0300
125	○ 175.16.12D.0300
150	○ 175.17.12D.0300
matt finish on demand	

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

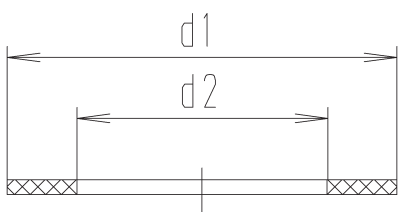
DN	304 borosilikat polished Ident number	304 hard glass polished Ident number	316 L borosilikat polished Ident number	316 L hard glass polished Ident number
1"	○ 175.08.11D.0006	○ 175.08.11G.0006	○ 175.08.12D.0006	○ 175.08.12G.0006
1½"	○ 175.10.11D.0006	○ 175.10.11G.0006	○ 175.10.12D.0006	○ 175.10.12G.0006
2"	○ 175.11.11D.0006	○ 175.11.11G.0006	○ 175.11.12D.0006	○ 175.11.12G.0006
2½"	○ 175.12.11D.0006	○ 175.12.11G.0006	○ 175.12.12D.0006	○ 175.12.12G.0006
3"	○ 175.13.11D.0006	○ 175.13.11G.0006	○ 175.13.12D.0006	○ 175.13.12G.0006
4"	○ 175.15.11D.0006	○ 175.15.11G.0006	○ 175.15.12D.0006	○ 175.15.12G.0006
matt finish on demand				

glass disk for sight glass DIN or inch (788)



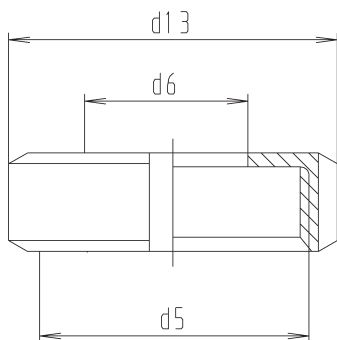
DN	d8	s2	weight (kg)
25 / 1"	45	8	0,030
32	50	8	0,040
40 / 1½"	55	10	0,060
50 / 2"	65	10	0,080
65 / 2½"	85	10	0,140
3"	90	10	0,290
80	100	15	0,290
100 / 4"	118	12	0,330
125	150	15	0,660
150	175	20	1,180

washer for sight glass DIN or inch



DN	d1	d2	weight (kg)
25 / 1"	48	28	-
32	53	34	-
40 / 1½"	61	40	-
50 / 2"	72	52	-
65 / 2½"	88	68	-
3"	100	75	-
80	104	83	-
100 / 4"	123	102	-
125	152	127	-
150	180	153	-

nut for sight glass, DIN or inch



DN	d13	d5	d6	weight (kg)
25 / 1"	63	52x1/6"	26	0,180
32	70	58x1/6"	32	0,220
40 / 1½"	78	65x1/6"	38	0,250
50 / 2"	92	78x1/6"	50	0,340
65 / 2½"	112	95x1/6"	66	0,550
3"	119	104x1/6"	73	0,650
80	127	110x1/4"	81	0,800
100 / 4"	148	130x1/4"	100	1,080
125	178	160x1/4"	125	1,450
150	210	190x1/4"	150	1,880

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	borosilikatglas Ident number	hard glass Ident number
25 / 1"	○ 899.08.6D0.0000	● 899.08.6G0.0001
32	○ 899.09.6D0.0000	● 899.09.6G0.0001
40 / 1½"	○ 899.10.6D0.0000	● 899.10.6G0.0001
50 / 2"	○ 899.11.6D0.0000	● 899.11.6G0.0001
65 / 2½"	○ 899.12.6D0.0000	● 899.12.6G0.0001
3"	○ 899.13.6D0.0000	○ 899.13.6G0.0001
80	○ 899.14.6D0.0000	● 899.14.6G0.0001
100 / 4"	○ 899.15.6D0.0000	● 899.15.6G0.0001
125	○ 899.16.6D0.0000	● 899.16.6G0.0001
150	○ 899.17.6D0.0000	● 899.17.6G0.0001

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	PP Ident number
25 / 1"	● 275.08.5P0.0000
32	● 275.09.5P0.0000
40 / 1½"	● 275.10.5P0.0000
50 / 2"	● 275.11.5P0.0000
65 / 2½"	● 275.12.5P0.0000
3"	○ 275.13.5P0.0000
80	● 275.14.5P0.0000
100 / 4"	● 275.15.5P0.0000
125	● 275.16.5P0.0000
150	● 275.17.5P0.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number
25 / 1"	● 275.08.110.0001
32	● 275.09.110.0001
40 / 1½"	● 275.10.110.0001
50 / 2"	● 275.11.110.0001
65 / 2½"	● 275.12.110.0001
3"	○ 275.13.110.0001
80	● 275.14.110.0001
100 / 4"	● 275.15.110.0001
125	● 275.16.110.0001
150	○ 275.17.110.0001

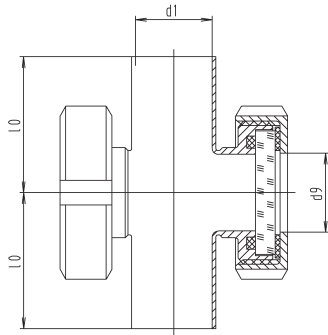
matt finish on demand

3.2 Sight glasses

3.2.2 Sight glasses

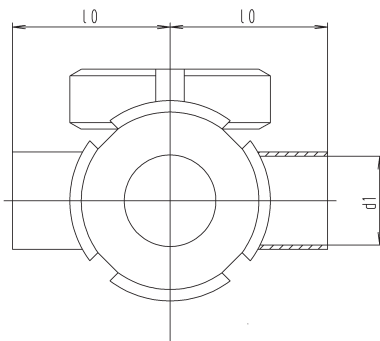
	page
Sight glass, cross type, weld ends (for tubing similar DIN 11850) (786)	3.2.2-1
Sight glass, angle type, weld ends (for tubing acc. DIN 11850 line 2) (786E)	3.2.2-1
Sight glass, cross type, weld ends, inch OD (786Z)	3.2.2-1

sight glass, cross type, weld ends (for tubing similar DIN 11850) (786)



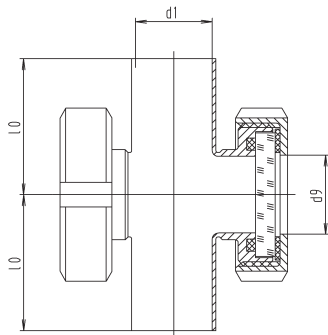
DN	nw	d1	d9	l0	weight (kg)
25	25	26	26	50	0,850
32	32	32	32	55	0,900
40	40	38	38	60	1,100
50	50	50	50	70	1,500
65/50	65	66	50	80	1,800
80/65	80	81	66	90	2,800
100/65	100	100	66	100	3,000
125/100	125	125	100	187	-
150/100	150	150	100	225	-

sight glass, angle type, weld ends (for tubing acc. DIN 11850 line 2) (786E)



DN	d1	l0	weight (kg)
50	50	70	1,500
65	66	80	1,800
80	81	90	2,800
100	100	100	3,000

sight glass, cross type, weld ends, inch OD (786Z)



DN	d1	d9	l0	weight (kg)
1"	22.1	26	50	0,850
1½"	34.8	38	60	1,100
2"	47.5	50	70	1,500
2½" / 2"	60.2	50	80	1,800
3" / 2½"	72.9	66	95	2,800
4" / 2½"	97.4	66	100	3,000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 hard glass polished Ident number	304 hard glass matt Ident number	316 L hard glass polished Ident number	316 L hard glass matt Ident number
25	● 175.08.11G.0001	● 175.08.21G.0001	● 175.08.12G.0001	● 175.08.22G.0001
32	● 175.09.11G.0001	● 175.09.21G.0001	● 175.09.12G.0001	● 175.09.22G.0001
40	● 175.10.11G.0001	● 175.10.21G.0001	● 175.10.12G.0001	● 175.10.22G.0001
50	● 175.11.11G.0001	● 175.11.21G.0001	● 175.11.12G.0001	● 175.11.22G.0001
65/50	● 175.48.11G.0001	● 175.48.21G.0001	● 175.48.12G.0001	● 175.48.22G.0001
80/65	● 175.64.11G.0001	● 175.64.21G.0001	○ 175.64.12G.0001	○ 175.64.22G.0001
100/65	● 175.73.11G.0001	● 175.73.21G.0001	● 175.73.12G.0001	● 175.73.22G.0001
125/100	○ 175.86.11G.0001	○ 175.86.21G.0001	○ 175.86.12G.0001	○ 175.86.22G.0001
150/100	○ 175.97.11G.0001	○ 175.97.21G.0001	○ 175.97.12G.0001	○ 175.97.22G.0001

standard gasket NBR considered, other material on demand

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
50	○ 175.11.11G.0008	○ 175.11.21G.0008	○ 175.11.12G.0008	○ 175.11.22G.0008
65	○ 175.12.11G.0008	○ 175.12.21G.0008	○ 175.12.12G.0008	○ 175.12.22G.0008
80	○ 175.14.11G.0008	○ 175.14.21G.0008	○ 175.14.12G.0008	○ 175.14.22G.0008
100	○ 175.15.11G.0008	○ 175.15.21G.0008	○ 175.15.12G.0008	○ 175.15.22G.0008

standard gasket NBR considered, other material on demand

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 hard glass polished Ident number	304 hard glass matt Ident number	316 L hard glass polished Ident number	316 L hard glass matt Ident number
1"	○ 175.08.11G.0002	○ 175.08.21G.0002	○ 175.08.12G.0002	○ 175.08.22G.0002
1½"	○ 175.10.11G.0002	○ 175.10.21G.0002	○ 175.10.12G.0002	○ 175.10.22G.0002
2"	○ 175.11.11G.0002	○ 175.11.21G.0002	○ 175.11.12G.0002	○ 175.11.22G.0002
2½" / 2"	○ 175.48.11G.0002	○ 175.48.21G.0002	○ 175.48.12G.0002	○ 175.48.22G.0002
3" / 2½"	○ 175.56.11G.0002	○ 175.56.21G.0002	○ 175.56.12G.0002	○ 175.56.22G.0002
4" / 2½"	○ 175.73.11G.0002	○ 175.73.21G.0002	○ 175.73.12G.0002	○ 175.73.22G.0002

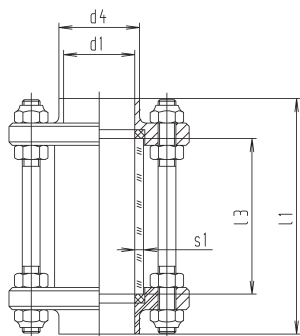
standard gasket NBR considered, other material on demand

3.2 Sight glasses

3.2.3 Sight glasses• Cylindrical type

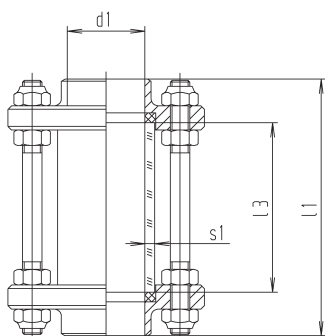
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Sight glass cylindrical type, weld ends (for tubing acc. DIN 11850 line 2) (779)	3.2.3-1
Sight glass cylindrical type, weld ends, DIN (799)	3.2.3-1
Sight glass cylindrical type, weld ends, inch OD (779Z)	3.2.3-1
Sight glass cylindrical type, male/male, DIN (788)	3.2.3-1
Sight glass cylindrical type, male/liner, DIN (781)	3.2.3-3
Sight glass cylindrical type, liner/liner, DIN (782)	3.2.3-3
Glass tube for sight glass cylindrical type (783)	3.2.3-3
Gasket for cylindrical sight glass (784)	3.2.3-3
Safety screen for sight glass cylindrical type (785)	3.2.3-5

sight glass cylindrical type, weld ends (for tubing acc. DIN 11850 line 2) (779)



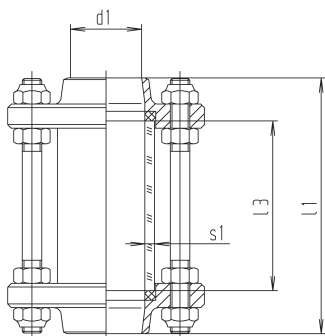
DN	d1	d4	l1	l3	s1	weight (kg)
10	10	13	88	60	2.5	0,250
15	16	19	88	60	2.5	0,300
20	20	23	88	60	3	0,730
25	26	29	98	70	3	0,750
32	32	35	104	70	3	0,760
40	38	41	112	70	5	1,080
50	50	53	112	70	5	1,340
65	66	70	127	85	5	1,900
80	81	85	135	85	5	2,350
100	100	104	169	115	5	2,800
125	125	129	202	160	7	6,350
150	150	154	216	170	9	7,110

sight glass cylindrical type, weld ends, DIN (799)



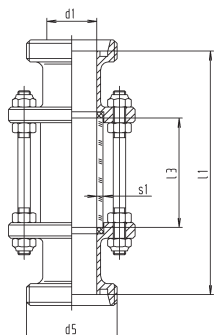
DN	d1	l1	l3	s1	weight (kg)
10	10	88	60	2.5	0,250
15	16	88	60	2.5	0,300
20	20	88	60	3	0,730
25	26	98	70	3	0,750
32	32	104	70	3	0,760
40	38	112	70	5	1,080
50	50	112	70	5	1,340
65	66	127	85	5	1,900
80	81	135	85	5	2,350
100	100	169	115	5	2,800
125	125	202	160	7	6,350
150	150	216	170	9	7,110

sight glass cylindrical type, weld ends, inch OD (779Z)



DN	d1	l1	l3	s1	weight (kg)
1"	22.1	96	70	3	0,750
1¼"	28.5	102	70	3	0,760
1½"	34.8	110	70	5	1,080
2"	47.5	110	70	5	1,340
2½"	60.2	124	85	5	1,900
3"	72.9	132	85	5	2,350
4"	97.4	167	115	5	2,800

sight glass cylindrical type, male/male, DIN (788)



DN	d1	d5	l0	l3	s1	weight (kg)
10	10	28x1/8"	122	60	2.5	0,320
15	16	34x1/8"	122	60	2.5	0,390
20	20	44x1/6"	124	60	3	0,900
25	26	52x1/6"	142	70	3	1,000
32	32	58x1/6"	154	70	3	1,080
40	38	65x1/6"	164	70	5	1,500
50	50	78x1/6"	168	70	5	1,940
65	66	95x1/6"	191	85	5	2,800
80	81	110x1/4"	209	85	5	3,100
100	100	130x1/4"	257	115	5	4,360
125	125	160x1/4"	270	160	7	8,800
150	150	190x1/4"	290	170	9	10,500

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 matt Ident number	316 L polished Ident number	316 L matt Ident number
10	○ 173.04.11G.0004	○ 173.04.21G.0004	○ 173.04.12G.0004	○ 173.04.22G.0004
15	○ 173.06.11G.0004	○ 173.06.21G.0004	○ 173.06.12G.0004	○ 173.06.22G.0004
20	○ 173.07.11G.0004	○ 173.07.21G.0004	○ 173.07.12G.0004	○ 173.07.22G.0004
25	○ 173.08.11G.0004	○ 173.08.21G.0004	○ 173.08.12G.0004	○ 173.08.22G.0004
32	○ 173.09.11G.0004	○ 173.09.21G.0004	○ 173.09.12G.0004	○ 173.09.22G.0004
40	○ 173.10.11G.0004	○ 173.10.21G.0004	○ 173.10.12G.0004	○ 173.10.22G.0004
50	○ 173.11.11G.0004	○ 173.11.21G.0004	○ 173.11.12G.0004	○ 173.11.22G.0004
65	○ 173.12.11G.0004	○ 173.12.21G.0004	○ 173.12.12G.0004	○ 173.12.22G.0004
80	○ 173.14.11G.0004	○ 173.14.21G.0004	○ 173.14.12G.0004	○ 173.14.22G.0004
100	○ 173.15.11G.0004	○ 173.15.21G.0004	○ 173.15.12G.0004	○ 173.15.22G.0004
125	○ 173.16.11G.0004	○ 173.16.21G.0004	○ 173.16.12G.0004	○ 173.16.22G.0004
150	○ 173.17.11G.0004	○ 173.17.21G.0004	○ 173.17.12G.0004	○ 173.17.22G.0004

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 pol. safty screen Ident number	316 L polished Ident number	316 L pol. Safty screen Ident number
10	○ 173.04.11G.0000	● 173.04.11G.0001	○ 173.04.12G.0000	○ 173.04.12G.0001
15	○ 173.06.11G.0000	○ 173.06.11G.0001	○ 173.06.12G.0000	○ 173.06.12G.0001
20	○ 173.07.11G.0000	○ 173.07.11G.0001	○ 173.07.12G.0000	○ 173.07.12G.0001
25	● 173.08.11G.0000	● 173.08.11G.0001	● 173.08.12G.0000	● 173.08.12G.0001
32	● 173.09.11G.0000	● 173.09.11G.0001	● 173.09.12G.0000	● 173.09.12G.0001
40	● 173.10.11G.0000	● 173.10.11G.0001	● 173.10.12G.0000	● 173.10.12G.0001
50	● 173.11.11G.0000	● 173.11.11G.0001	● 173.11.12G.0000	● 173.11.12G.0001
65	● 173.12.11G.0000	● 173.12.11G.0001	● 173.12.12G.0000	● 173.12.12G.0001
80	● 173.14.11G.0000	● 173.14.11G.0001	● 173.14.12G.0000	● 173.14.12G.0001
100	● 173.15.11G.0000	● 173.15.11G.0001	● 173.15.12G.0000	● 173.15.12G.0001
125	○ 173.16.11G.0000	○ 173.16.11G.0001	○ 173.16.12G.0000	○ 173.16.12G.0001
150	○ 173.17.11G.0000	○ 173.17.11G.0001	○ 173.17.12G.0000	○ 173.17.12G.0001

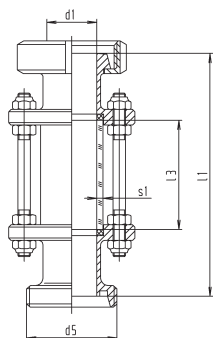
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 pol. safty screen Ident number	316 L polished Ident number	316 L pol. safty screen Ident number
1"	● 173.08.11G.0002	● 173.08.11G.0003	● 173.08.12G.0002	● 173.08.12G.0003
1¼"	● 173.09.11G.0002	● 173.09.11G.0003	● 173.09.12G.0002	● 173.09.12G.0003
1½"	● 173.10.11G.0002	● 173.10.11G.0003	● 173.10.12G.0002	● 173.10.12G.0003
2"	● 173.11.11G.0002	● 173.11.11G.0003	● 173.11.12G.0002	● 173.11.12G.0003
2½"	● 173.12.11G.0002	● 173.12.11G.0003	● 173.12.12G.0002	● 173.12.12G.0003
3"	● 173.13.11G.0002	● 173.13.11G.0003	○ 173.13.12G.0002	○ 173.13.12G.0003
4"	● 173.15.11G.0002	● 173.15.11G.0003	● 173.15.12G.0002	● 173.15.12G.0003

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

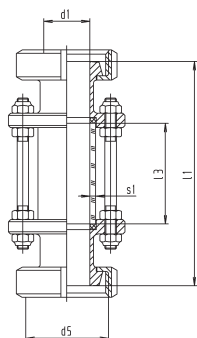
DN	304 polished Ident number	304 pol. safty screen Ident number	316 L polished Ident number	316 L pol. safty screen Ident number
10	○ 174.04.11G.0000	○ 174.04.11G.0001	○ 174.04.12G.0000	○ 174.04.12G.0001
15	○ 174.06.11G.0000	○ 174.06.11G.0001	○ 174.06.12G.0000	○ 174.06.12G.0001
20	○ 174.07.11G.0000	○ 174.07.11G.0001	○ 174.07.12G.0000	○ 174.07.12G.0001
25	● 174.08.11G.0000	● 174.08.11G.0001	● 174.08.12G.0000	● 174.08.12G.0001
32	● 174.09.11G.0000	● 174.09.11G.0001	● 174.09.12G.0000	● 174.09.12G.0001
40	● 174.10.11G.0000	● 174.10.11G.0001	● 174.10.12G.0000	● 174.10.12G.0001
50	● 174.11.11G.0000	● 174.11.11G.0001	● 174.11.12G.0000	● 174.11.12G.0001
65	● 174.12.11G.0000	● 174.12.11G.0001	● 174.12.12G.0000	● 174.12.12G.0001
80	● 174.14.11G.0000	● 174.14.11G.0001	● 174.14.12G.0000	● 174.14.12G.0001
100	● 174.15.11G.0000	● 174.15.11G.0001	○ 174.15.12G.0000	○ 174.15.12G.0001
125	○ 174.16.11G.0000	○ 174.16.11G.0001	○ 174.16.12G.0000	○ 174.16.12G.0001
150	○ 174.17.11G.0000	○ 174.17.11G.0001	○ 174.17.12G.0000	○ 174.17.12G.0001

sight glass cylindrical type, male/liner, DIN (781)



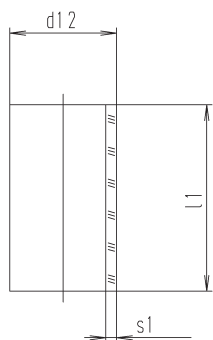
DN	d1	d5	l1	l3	s1	weight (kg)
10	10	28x1/8"	122	60	2.5	0,380
15	16	34x1/8"	122	60	2.5	0,450
20	20	44x1/6"	124	60	3	0,690
25	26	52x1/6"	142	70	3	1,020
32	32	58x1/6"	154	70	3	1,250
40	38	65x1/6"	164	70	5	1,670
50	50	78x1/6"	168	70	5	2,170
65	66	95x1/6"	191	85	5	3,260
80	81	110x1/4"	209	85	5	3,710
100	100	130x1/4"	257	115	5	5,100
125	125	160x1/4"	270	160	7	9,500
150	150	190x1/4"	290	170	9	11,300

sight glass cylindrical type, liner/liner, DIN (782)



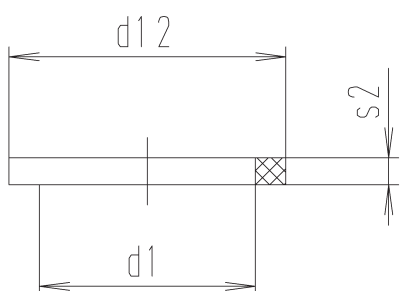
DN	d1	d5	l1	l3	s1	weight (kg)
10	10	28x1/8"	122	60	2.5	0,440
15	16	34x1/8"	122	60	2.5	0,520
20	20	44x1/6"	124	60	3	1,080
25	26	52x1/6"	142	70	3	1,200
32	32	58x1/6"	154	70	3	1,410
40	38	65x1/6"	164	70	5	1,890
50	50	78x1/6"	168	70	5	2,500
65	66	95x1/6"	191	85	5	3,640
80	81	110x1/4"	209	85	5	4,270
100	100	130x1/4"	257	115	5	6,130
125	125	160x1/4"	270	160	7	10,200
150	150	190x1/4"	290	170	9	11,790

glass tube for sight glass cylindrical type (783)



DN	d12	l1	s1	weight (kg)
10	15	60	2.5	0,020
15	22	60	2.5	0,020
20	26	60	3	0,030
25 / 1"	32	70	3	0,040
32 / 1¼"	40	70	3	0,060
40 / 1½"	50	70	5	0,110
50 / 2"	60	70	5	0,140
65 / 2½"	75	85	5	0,210
80 / 3"	90	85	5	0,300
100 / 4"	110	115	5	0,430
125	140	160	7	1,120
150	170	170	9	1,800

gasket for cylindrical sight glass (784)



DN	d1	d12	s2	weight (kg)
10	10	18	3	-
15	16	24	3	-
20	20	28	3	-
25 / 1"	26	33.5	4	-
32 / 1¼"	32	41	4	0,010
40 / 1½"	38	51.5	4	0,010
50 / 2"	50	62.5	4	0,010
65 / 2½"	66	77.5	4	0,010
80 / 3"	81	93.5	4	0,010
100 / 4"	100	112.5	4	0,020
125	125	143	4	0,040
150	150	171	6	0,050

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 pol. safty screen Ident number	316 L polished Ident number	316 L pol. safty screen Ident number
10	○ 174.04.11G.0002	○ 174.04.11G.0003	○ 174.04.12G.0002	○ 174.04.12G.0003
15	○ 174.06.11G.0002	○ 174.06.11G.0003	○ 174.06.12G.0002	○ 174.06.12G.0003
20	○ 174.07.11G.0002	○ 174.07.11G.0003	○ 174.07.12G.0002	○ 174.07.12G.0003
25	● 174.08.11G.0002	● 174.08.11G.0003	● 174.08.12G.0002	● 174.08.12G.0003
32	● 174.09.11G.0002	● 174.09.11G.0003	○ 174.09.12G.0002	○ 174.09.12G.0003
40	● 174.10.11G.0002	● 174.10.11G.0003	● 174.10.12G.0002	● 174.10.12G.0003
50	● 174.11.11G.0002	● 174.11.11G.0003	● 174.11.12G.0002	● 174.11.12G.0003
65	● 174.12.11G.0002	● 174.12.11G.0003	● 174.12.12G.0002	● 174.12.12G.0003
80	● 174.14.11G.0002	● 174.14.11G.0003	● 174.14.12G.0002	● 174.14.12G.0003
100	● 174.15.11G.0002	● 174.15.11G.0003	○ 174.15.12G.0002	○ 174.15.12G.0003
125	○ 174.16.11G.0002	○ 174.16.11G.0003	○ 174.16.12G.0002	○ 174.16.12G.0003
150	○ 174.17.11G.0002	○ 174.17.11G.0003	○ 174.17.12G.0002	○ 174.17.12G.0003

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number	304 pol. safty screen Ident number	316 L polished Ident number	316 L pol. safty screen Ident number
10	○ 174.04.11G.0004	○ 174.04.11G.0005	○ 174.04.12G.0004	○ 174.04.12G.0005
15	○ 174.06.11G.0004	○ 174.06.11G.0005	○ 174.06.12G.0004	○ 174.06.12G.0005
20	○ 174.07.11G.0004	○ 174.07.11G.0005	○ 174.07.12G.0004	○ 174.07.12G.0005
25	● 174.08.11G.0004	● 174.08.11G.0005	● 174.08.12G.0004	● 174.08.12G.0005
32	● 174.09.11G.0004	● 174.09.11G.0005	○ 174.09.12G.0004	○ 174.09.12G.0005
40	● 174.10.11G.0004	● 174.10.11G.0005	● 174.10.12G.0004	● 174.10.12G.0005
50	● 174.11.11G.0004	● 174.11.11G.0005	● 174.11.12G.0004	● 174.11.12G.0005
65	● 174.12.11G.0004	● 174.12.11G.0005	● 174.12.12G.0004	● 174.12.12G.0005
80	● 174.14.11G.0004	● 174.14.11G.0005	● 174.14.12G.0004	● 174.14.12G.0005
100	● 174.15.11G.0004	● 174.15.11G.0005	○ 174.15.12G.0004	○ 174.15.12G.0005
125	○ 174.16.11G.0004	○ 174.16.11G.0005	○ 174.16.12G.0004	○ 174.16.12G.0005
150	○ 174.17.11G.0004	○ 174.17.11G.0005	○ 174.17.12G.0004	○ 174.17.12G.0005

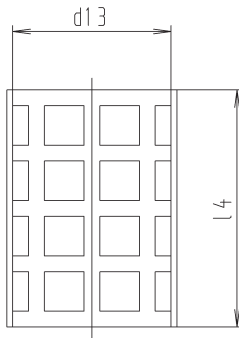
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	borosilikatglas Ident number
10	● 899.04.6G0.0000
15	● 899.06.6G0.0000
20	● 899.07.6G0.0000
25 / 1"	● 899.08.6G0.0000
32 / 1¼"	● 899.09.6G0.0000
40 / 1½"	● 899.10.6G0.0000
50 / 2"	● 899.11.6G0.0000
65 / 2½"	● 899.12.6G0.0000
80 / 3"	● 899.14.6G0.0000
100 / 4"	● 899.15.6G0.0000
125	● 899.16.6G0.0000
150	● 899.17.6G0.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	EPDM Ident number	NBR Ident number	FPM Ident number
10	● 826.04.6E0.0000	● 826.04.6N0.0000	○ 826.04.6V0.0000
15	● 826.06.6E0.0000	● 826.06.6N0.0000	○ 826.06.6V0.0000
20	● 826.07.6E0.0000	● 826.07.6N0.0000	○ 826.07.6V0.0000
25 / 1"	● 826.08.6E0.0000	● 826.08.6N0.0000	○ 826.08.6V0.0000
32 / 1¼"	● 826.09.6E0.0000	● 826.09.6N0.0000	○ 826.09.6V0.0000
40 / 1½"	● 826.10.6E0.0000	● 826.10.6N0.0000	○ 826.10.6V0.0000
50 / 2"	● 826.11.6E0.0000	● 826.11.6N0.0000	● 826.11.6V0.0000
65 / 2½"	● 826.12.6E0.0000	● 826.12.6N0.0000	● 826.12.6V0.0000
80 / 3"	● 826.14.6E0.0000	● 826.14.6N0.0000	○ 826.14.6V0.0000
100 / 4"	● 826.15.6E0.0000	● 826.15.6N0.0000	○ 826.15.6V0.0000
125	○ 826.16.6E0.0000	● 826.16.6N0.0000	○ 826.16.6V0.0000
150	● 826.17.6E0.0000	● 826.17.6N0.0000	○ 826.17.6V0.0000

safety screen for sight glass cylindrical type (785)



DN	d13	l4	weight (kg)
10	18.5	46	0,010
15	24.5	46	0,010
20	28.5	46	0,010
25 / 1"	33.5	60	0,010
32 / 1¼"	41	60	0,020
40 / 1½"	51.5	60	0,020
50 / 2"	62.5	60	0,030
65 / 2½"	77.5	74	0,040
80 / 3"	93.5	74	0,040
100 / 4"	112.5	102	0,070
125	143	144	0,120
150	173	158	0,170

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number
10	○ 179.04.110.0004
15	○ 179.06.110.0004
20	○ 179.07.110.0004
25 / 1"	○ 179.08.110.0004
32 / 1¼"	○ 179.09.110.0004
40 / 1½"	○ 179.10.110.0004
50 / 2"	○ 179.11.110.0004
65 / 2½"	○ 179.12.110.0004
80 / 3"	○ 179.14.110.0004
100 / 4"	○ 179.15.110.0004
125	○ 179.16.110.0004
150	○ 179.17.110.0004

3.2 Sight glasses

3.2.4 Sight glasses• Deaeration lantern

page

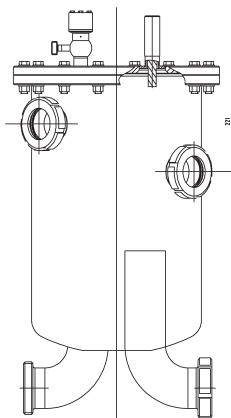
Deaeration lantern..... 3.2.3-1

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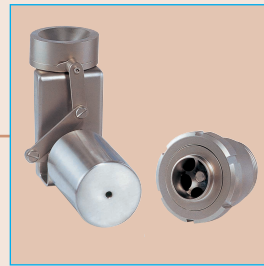
deaeration lantern



DN	content	weight (kg)
50	10 L	-
50	15 L	-
80	50 L	-

		316 L EPDM matt	
		DN	Ident number
deaeration lantern		50	○ 196.10.22E.0001
		50	○ 196.15.22E.0001
		80	○ 196.50.22E.0001

Tank Equipment



4. Tank equipment



CIP spraying devices

4.2



Level indicators

4.3



Attachments

4.4

4.2 CIP spraying devices

4.2.1 Cleaning balls

page

Technical information

Cleaning balls Type A, B, C, D

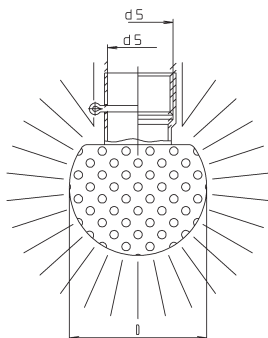
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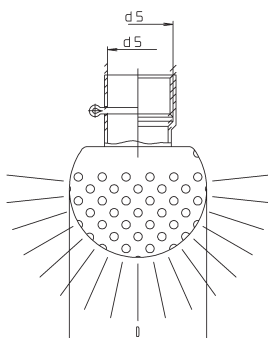
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spray ball, type A (870)



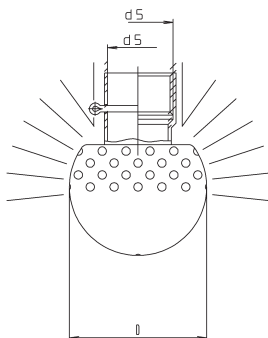
DN	type	d5	D	spray circuit [m]	flow rate [m3/h]	spray pressure [bar]	weight (kg)
8	8A1	12 /	28	0,0 - 2,0	4	2,5	0,040
10 /	ISO/A1	13,6	28	0,0 - 2,0	4	2,5	0,040
25	25A1	29 / R1"	65	2,0 - 2,5	17	2,5	0,120
25	25A2	29 / R1"	65	2,5 - 3,5	23	2,5	0,120
25	25A3	29 / R1"	65	3,0 - 4,0	26	2,5	0,120
50	50A1	53 / R2"	93	0,0 - 4,5	55	3,5	0,440
50	50A2	53 / R2"	93	4,0 - 6,0	58	3,5	0,440
50	50A3	53 / R2"	93	6,0 - 8,0	70	3,5	0,440

spray ball, type B (871)



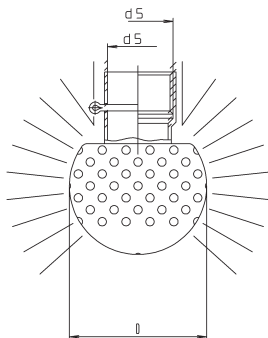
DN		d5	D	spray circuit [m]	flow rate [m3/h]	spray pressure [bar]	weight (kg)
25	25B1	29 / R1"	65	2,0 - 2,5	10	2,5	0,120
25		29 / R1"	65	2,5 - 3,5	17	2,5	0,120
25		29 / R1"	65	3,0 - 4,0	22	2,5	0,120
50		53 /	93	0,0 - 4,5	38	3,5	0,440
50		53 /	93	4,0 - 6,0	41	3,5	0,440
50		53 /	93	6,0 - 8,0	50	3,5	0,440

spray ball, type C (872)



DN		d5	D	spray circuit [m]	flow rate [m3/h]	spray pressure [bar]	weight (kg)
25		29 / R1"	65	2,0 - 2,5	10	2,5	0,120
25		29 / R1"	65	2,5 - 3,5	15	2,5	0,120
25		29 / R1"	65	3,0 - 4,0	21	2,5	0,120
50		53 /	93	0,0 - 4,5	30	3,5	0,440
50		53 /	93	4,0 - 6,0	35	3,5	0,440
50		53 /	93	6,0 - 8,0	41	3,5	0,440

spray ball, type D (873)



DN	type	d5	D	spray circuit [m]	flow rate [m3/h]	spray pressure [bar]	weight (kg)
25	25D1	29 /	65	2,0 - 2,5	15	2,5	0,120
25	25D2	29 /	65	2,5 - 3,5	18	2,5	0,120
25	25D3	29 /	65	3,0 - 4,0	22	2,5	0,120
50	50D1	53 /	93	0,0 - 4,5	45	3,5	0,440
50	50D2	53 /	93	4,0 - 6,0	46	3,5	0,440
50	50D3	53 /	93	6,0 - 8,0	51	3,5	0,440

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L pol. with cotter pin Ident number	316 L pol. with coupling Ident number
8	○ 195.03.120.0111	○ 195.03.120.0211
10 / ISO	○ 195.04.120.0411	- -
25	● 195.08.120.0112	● 195.08.120.0212
25	○ 195.08.120.0113	○ 195.08.120.0213
25	○ 195.08.120.0114	○ 195.08.120.0214
50	○ 195.11.120.0115	○ 195.11.120.0215
50	○ 195.11.120.0116	○ 195.11.120.0216
50	○ 195.11.120.0117	○ 195.11.120.0217

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L pol. with cotter pin Ident number	316 L pol. with coupling Ident number
25	○ 195.08.120.0122	○ 195.08.120.0222
25	○ 195.08.120.0123	○ 195.08.120.0223
25	○ 195.08.120.0124	○ 195.08.120.0224
50	○ 195.11.120.0125	○ 195.11.120.0225
50	○ 195.11.120.0126	○ 195.11.120.0226
50	○ 195.11.120.0127	○ 195.11.120.0227

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L pol. with cotter pin Ident number	316 L pol. with coupling Ident number
25	○ 195.08.120.0132	○ 195.08.120.0232
25	○ 195.08.120.0133	○ 195.08.120.0233
25	○ 195.08.120.0134	○ 195.08.120.0234
50	○ 195.11.120.0135	○ 195.11.120.0235
50	○ 195.11.120.0136	○ 195.11.120.0236
50	○ 195.11.120.0137	○ 195.11.120.0237

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	316 L pol. with cotter pin Ident number	316 L pol. with coupling Ident number
25	○ 195.08.120.0142	○ 195.08.120.0242
25	○ 195.08.120.0143	○ 195.08.120.0243
25	○ 195.08.120.0144	○ 195.08.120.0244
50	○ 195.11.120.0145	○ 195.11.120.0245
50	○ 195.11.120.0146	○ 195.11.120.0246
50	○ 195.11.120.0147	○ 195.11.120.0247

4.3 Level indicators

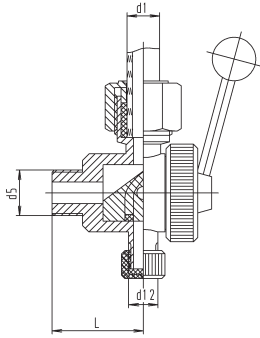
4.3.1 Level indicators	page
Level indicator valve (792)	4.3.1-1
Upper part f. level indicator glasses (790)	4.3.1-1
Middle part f. level indicator glasses (791)	4.3.1-1
Glass tube / protecting tube for level indicator	4.3.1-1

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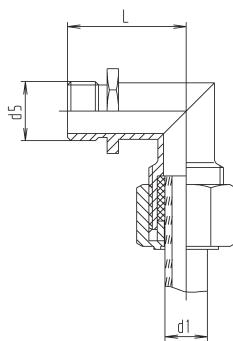
Back

level indicator ventil (792)



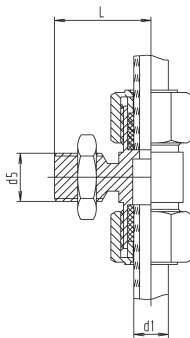
DN	d1	d5	d12	l	weight (kg)
10	15	R 1/2"	R 1/4"	42	0,470

upper part f. level indicator glasses (790)



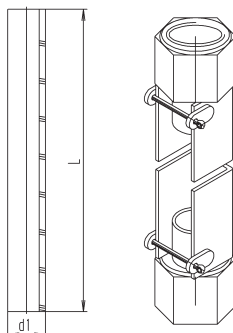
DN	d1	d5	l	weight (kg)
10	15	R 1/2"	42	0,18

middle part f. level indicator glasses (791)



DN	d1	d5	l	weight (kg)
10	15	R 1/2"	42	0,250

glass tube / protecting tube for level indicator



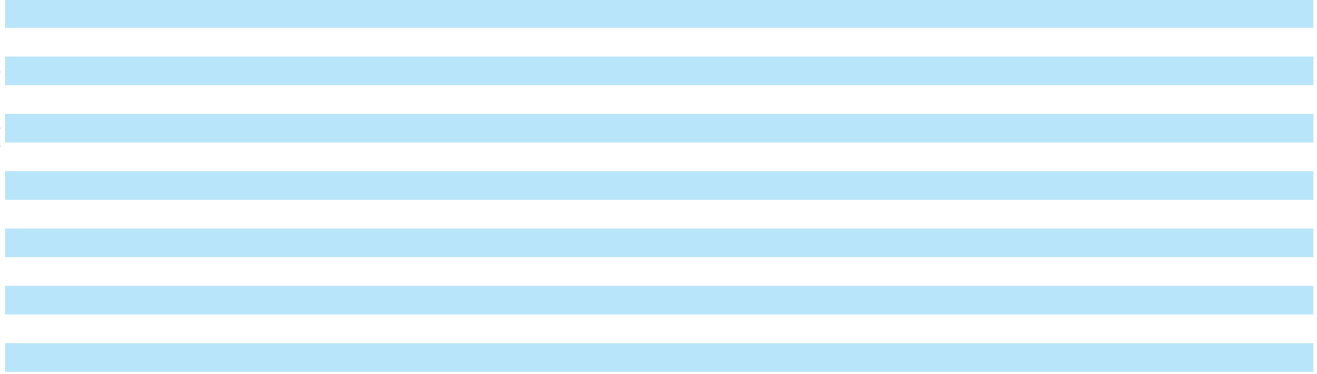
DN	d1	l	weight (kg)
10	Ø 15 x 2,5	nach Angabe	-

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 glass polished Ident number	304 plexiglass polished Ident number	O-Ring FPM 19 x 3,5 Ident number	o-ring FPM 21,5 x 3,5 Ident number
10	● 179.04.11Y.0002	● 179.04.11Y.0003	○ 827.00.6V0.0011	○ 827.00.6V0.0015



DN	304 glass polished Ident number	304 plexiglass polished Ident number	crushing gasket glass Ident number	crushing gasket plexiglass Ident number
10	● 179.04.11N.0000	● 179.04.11N.0001	○ 279.04.5N0.0019	○ 279.04.5N0.0034



DN	304 glass polished Ident number	304 plexiglass polished Ident number
10	● 179.04.11N.0005	● 179.04.11N.0007



DN	glasstube 15 x 2,5 Ident number	plexiglasstube 13 x 1,5 Ident number	protecting tube Ident number
10	○ 899.00.6G0.0000	○ 899.00.6Y0.0000	○ 189.00.110.0001



4.4 Attachments

4.4.1 Attachments • Structural attachments

page

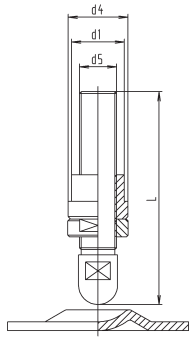
Spherical cap base (930K)	4.4.1-1
Base disc for height adjustable stainless steel feet, 3/8" to 1 1/2" (930T)	4.4.1-1

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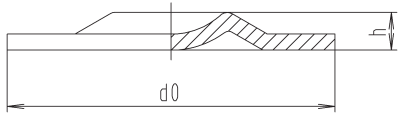
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spherical cap base (930K)



DN	d1	d4	d5	l	weight (kg)
3/8"	23.7	26.9	3/8"	100	0,780
1/2"	29.7	33.7	1/2"	120	1,010
1"	44.3	48.3	1"	150	1,540
1 1/2"	56.3	60.3	1 1/2"	150	2,860

base disc for height adjustable stainless steel feet, 3/8" to 1 1/2" (930T)



DN	d0	h	weight (kg)
3/8" - 1 1/2"	102	13	0,330

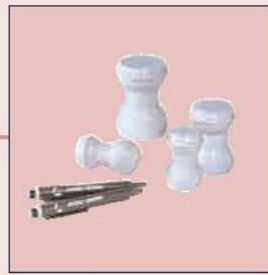
t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number
3/8"	● 182.04.110.0000
1/2"	● 182.06.110.0000
1"	● 182.08.110.0000
1 1/2"	● 182.10.110.0000

t-pieces, short, DIN 11852 (for tubing acc. DIN 11850 line 2) (5111N)

DN	304 polished Ident number
3/8" - 1 1/2"	● 182.04.110.0003

Product recovery System (Pigging system)



5. Pigging system



Pigging stations

5.1



Piggs and accessories

5.2



Piggable fittings

2.3

**This chapter is always in progress.
Mostly these articles are added to an assembly group.
For any inquiry please contact your responsible sales office.**

Technical Information

Product recovery system

Application

For pumpable products in piggable piping for

- Product recovery
- Product separation
- Media separation (gas/liquid)



- Pre-assembled components according to customer's specification
- Material AISI 304 or 316 L, other materials on request
- Gaskets according to FDA directive in Silicone, EPDM and HBNR
- Pigs in Silicone - HBNR on request - with magnetic or RO transponder

Planning instructions

The pig must freely pass through the plant. Built-in components, such as temperature sensors or butterfly valves must be exchanged with piggable fittings, if applicable.

Features

- Low costs due to use of standard pig components
- Very reliable in operation
- Automatic pig return or manual removal
- Pig fittings can be combined with components of the Nocado product lines to complete product recovery piping systems
- Patented ball-lip pig for optimum results



Although a Nocado pig can pass through certain oval piping and welding connections with minimal camber or with a certain misalignment, the wear is considerably less using nocaplug components and the corresponding professional installation.

Even though standard pipe bends can be used the pig runs smoother in bends with larger radius and branch enlargement. The wear of the pig increases more than proportionally to the velocity. During the run the pig should border a liquid at least on one side.

Design

Nominal sizes: DN 25 to DN 100

- Manual, semi-automatic or automatic version

Plant engineers certificated by Nocado proved to have the necessary knowledge and ability for the professional installation of a pigging system.

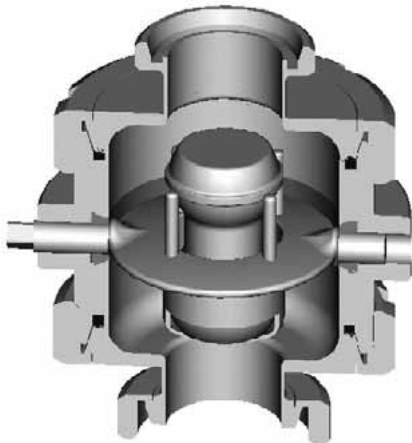
Technical Information

Pig stations

Pig inline station

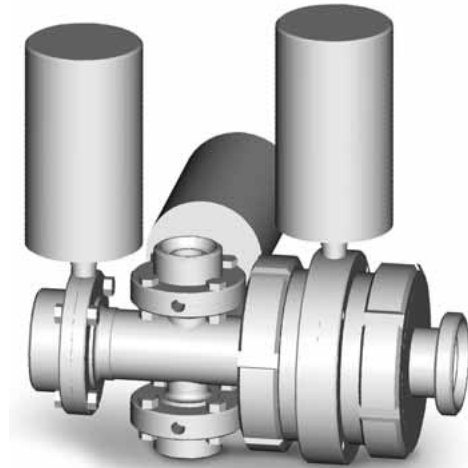
Application

Suitable as launching and receiving station. During production and cleaning process the pig stays in the inline station and is circulated around by the product or cleaned with the system. For the pigging process the inline flap is switched about 90° and the Nocado pig is taken in flow direction by the following medium. The station is laid out for automatic operation, but can also be manually switched by handle.



Features

- Extremely reliable in operation
- Compact
- Use of Nocado standard gaskets
- Horizontal or vertical installation
- CIP- and SIP-compatible, pig included
- Can be combined with components of the Nocado product lines
- The pig position within the inline station is detected by two independent pig sensors (waiting and operating position)
- Modified self-centring unions compatible to DIN 11851



Design

Nominal sizes: DN 25 to DN 100

- Manual, pneumatic or electromotive actuation
- 0°-90°-180° actuation for special functions
- Eccentric outlet for residual draining at horizontal installation
- Pre-assembled components through combination of components of the Nocado product lines
- Material AISI 304 or 316 L, other materials on request
- Gaskets according to FDA directive in Silicone, EPDM and HBNR

Planning instructions

Inline stations are used when the pig shall stay in the plant during various production and cleaning cycles.

Usually the pig travels back automatically. When separating two similar products the inline station is primarily used as catching station. As the pig is not taken out during cleaning and sterilization, the inline station is particularly used with micro-biological sensitive products of the food, beverages and cosmetics industry.

The inline station is not suitable for very fibrous products (e.g. sausage meat).

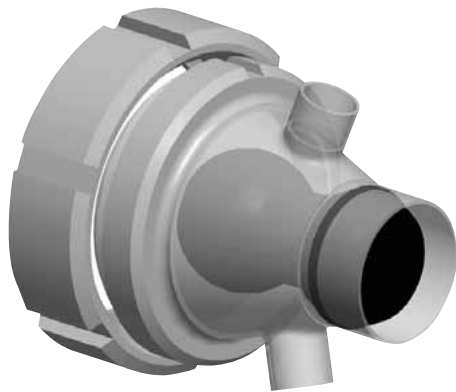
Technical Information

Pig stations

Pig launching and receiving station

Application

For launching and/or removal of the pig. In manual product recovery systems or as addition to automatic pigging systems.



Features

- Extremely reliable in operation
- Low costs
- For manual or semi-automatic operation
- Smooth surfaces, easy cleaning
- Compact
- Use of standard gaskets
- Horizontal or vertical installation
- Can be combined with components of the Nocado product lines

Design

Nominal sizes: DN 25 to DN 100

- Pre-assembled components according to customer's specification
- Material AISI 304 or 316 L, other materials on request
- Gaskets according to FDA directive in Silicone, EPDM and HBNR

Planning instructions

The product is let out in front of the pig launching and receiving station via T-piece, which can be closed by a valve. The launching and receiving station is preferably connected with a hygienic Nocado ball valve with rinsing connection to the pigging pipe. Particularly in connection with in-

line stations the plant can be designed in the way, that during automatic operation - instead of launching and receiving station - a bend is mounted and the launching and receiving station is only installed, when the pig is launched or removed.

Pig stopper

Application

When a pig shall be stopped in a pipeline, e.g. at the entrance of a machine or a non-pig-gable fitting and shall be returned immediately afterwards.



Features

- Simple design, reliable in operation
- Smooth surfaces, convenient in flow
- Hygienic
- Limited suitability for fibrous products
- Can be combined with components of the Nocado product lines

Design

Nominal sizes from DN 25 to DN 100 for pipelines according to DIN 11850

- Pre-assembled components according to customer's specification
- Material AISI 304 or 316 L, other materials on request

Planning instructions

The pig stopper is not designed symmetrically to ensure preferably optimum CIP-cleaning. On highly viscous products, particularly at low flow rates, it can be necessary to change the flow direction during cleaning to obtain satisfying CIP-cleaning. If this is not possible due to reasons of process engineering, the driving and relief connections can be designed as rinsing nozzles, if necessary. Maybe separate rinsing nozzles must be provided.

Technical Information

Pig and accessories

Pig

Application

For:

- Product recovery
- Product separation
- Media separation (gas/liquid) in piggable plants.

Features

- Universal application and not only limited to the use of Nocado pig fittings
- Despite preferred direction of travel, the pig can be used bidirectional with very good results
- One-piece, seamless pig
- Hygienic closed surface
- Suitable for passing through standard bends
- Lip wiper for optimum cleaning in straight pipelines
- Ball for optimum cleaning of bends
- Scraper blade for best results
- With encapsulated high-performance permanent magnets for secure position detection
- With RO transponder for complete documentation
- CIP-/SIP-compatible

Design

Pigs:

Nominal sizes: DN 25 to DN 100

- Silicone according to FDA directive
- HBNR on request

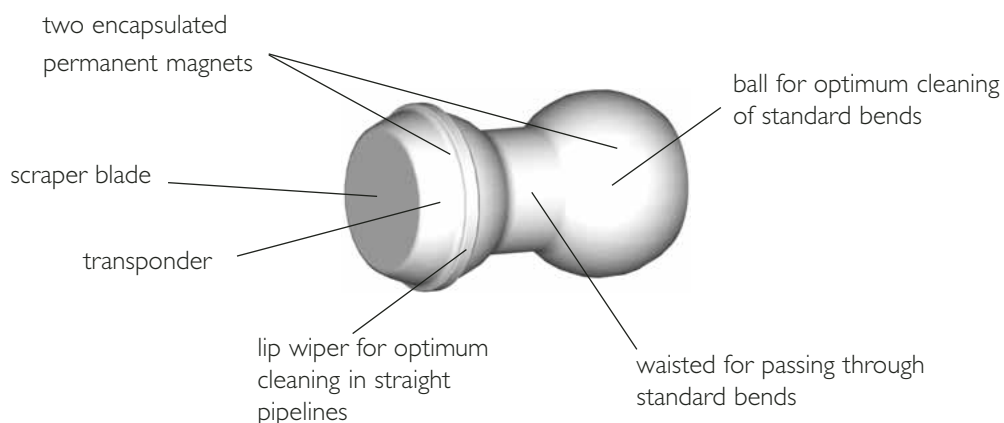
Transponder reader

- Data communication with
 - o profibus DP
 - o serial interface



Planning instructions

When Nocado pigs are used in pigging systems of other manufacturers, it has to be proved whether the geometry of Nocado pigs is compatible particularly to the installed launching and receiving station. Detecting pin: For position detection of the pig within the pigging plant. Transponder reader: For reading out the transponders on the pigging plant and in the pig as well as for data communication to PC or SPS.



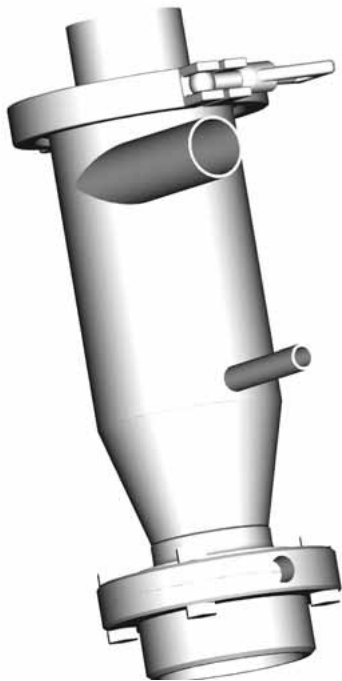
Technical Information

Pig and accessories

Separator

Application

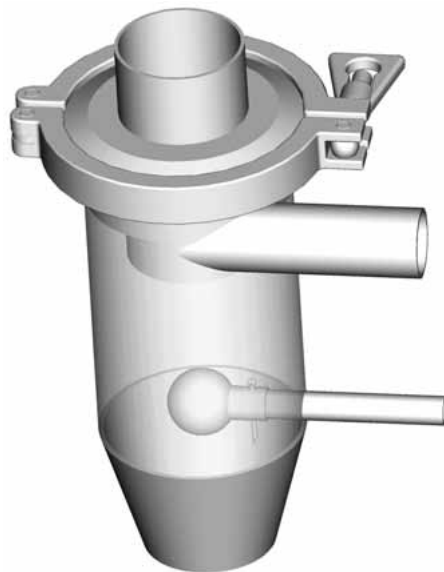
For separation of propellant and product residues or for media sticking at pipelines.



The separator nearly completely separates the gas from the solid or liquid medium. The gas escapes through the upper connection that in the easiest case diverts the gas flow through a bend outside to the ground.

The gas flow can also be piped into the open air or led to a filter. The separated residues are collected in the separator and let out to the bottom.

A spray ball is integrated in the inner chamber for optimum cleaning of the separator.



Features

- Simple design, reliable in operation
- Smooth surfaces
- Hygienic connections
- Compact
- Use of standard gaskets

Design

2 sizes with connection nominal sizes DN 15 and DN 25

- Material AISI 304 or 316 L
- For manual cleaning or automatic/semi-automatic CIP-cleaning

Planning instructions

After driving the pig with gas (mostly compressed air) the medium, which is still sticking to the pipeline wall, is partly entrained at the draining of gas.

On assembling it must be taken into consideration that the separator is mounted high enough so that the separated product can be drained e.g. in a bucket.

If drain piping is desired, the separator which belongs to the hygienic area of the plant should be separated from the waste water system with a professionally mounted funnel.

Technical Information

Piggable fittings

Piggable T-piece

Application

The piggable T-piece is piggable in straight passage. It is used where pigs must travel through T-pieces. It also is particularly used in connection with a piggable Nocado ball valve and a launching and receiving station for the comfortable launching in the plant and removing of the pig.



Features

- Simple design, reliable in operation
- Smooth surfaces
- Hygienic
- Suitable for fibrous products

Design

Nominal sizes from DN 25 to DN 100 according to DIN 11850

- With pig detector for position indication
- Can be combined with components of the Nocado product lines
- With ball valve
- With launching and receiving station

Hygienic ball valve

Application

As shut-off valve for piggable piping systems.



Features

- Floating ball
- Sturdy, long service life, reliable in operation
- Cleaning of dead ends through rinse connections (optional)

Design

Available in nominal sizes from DN 25 to DN 100

- Manual actuation
- Pneumatic actuation: spring opening, spring closing, air/air
- Electromotive actuation
- For welding on
- With pipe connections of the Nocado product lines
- End position feedback with
 - o proximity initiators (also Namur)
 - o mechanical limit switches
- Control top also with bus
- Material
 - o housing
 - * AISI 304/304 L (similar to 1.4301/1.4307)
 - * AISI 316 L (similar to 1.4404/1.4435)
 - * special stainless steel or titanium on request
 - o sealing
 - * ball sealing PTFE
 - * flange or shaft sealing FEP coated O-rings
- Surface: electro-polished, matt blasted, others on request
- Pressure PN 10, higher pressures available on request



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Technische Modifikationen, Preisänderungen und Irrtümer vorbehalten
Subject to technical modifications and changes in prices, errors excepted.