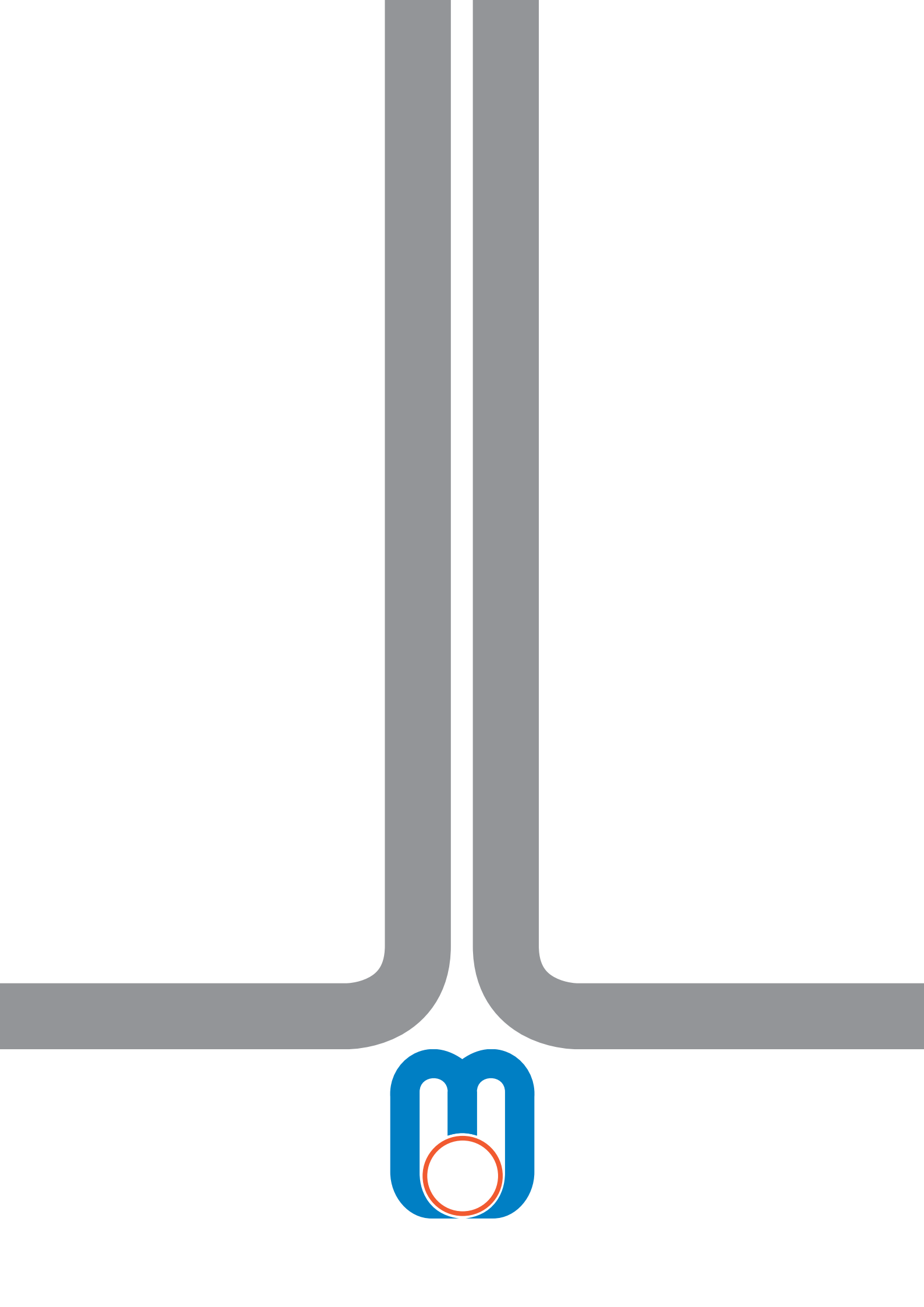




Important Information !

The information in the product groups behind does not give you a complete view of our range of products. If you need specific articles or makes please do not hesitate to contact our sales department.

In spite of the carefulness we attended composing this documentation it may occur that articles deviate from the given specifications.

We claim the right to change specifications without any obligation to inform you in advance. If certain specifications are essential please verify with our sales department or mention them explicit in your inquiry or PO.

Our [General Conditions](#) are applicable to all our business activities.



Standards ASTM/ASME/MSS/DIN
Normen ASTM/ASME/MSS/DIN

ASTM (American Society for Testing & Materials)
ASME (American Society of Mechanical Engineers)

ASTM/ASME	A	182	Stainless steel forged fittings, flanges & valves. Roestvaststaal gesmede fittingen, flenzen & afsluiters.
ASTM/ASME	A	213	Seamless stainless steel tubes for heat exchangers & evaporators. Naadloze roestvaststaal buizen voor o.a. warmtewisselaars & verdamper.
ASTM/ASME	A	249	Welded tubes, welded without filler material, for condensers & heat exchangers. Gelaste buizen, gelast zonder toevoegingsmateriaal, voor o.a. condensers & warmtewisselaars.
ASTM/ASME	A	269	Seamless & welded stainless steel tubes for general applications involving tight tolerances. Naadloze & gelaste roestvaststaal buizen voor algemene toepassing met nauwe toleranties.
ASTM/ASME	A	312	Seamless & welded stainless steel tubes, welded without filler material, for general applications. Naadloze & gelaste roestvaststaal buizen, gelast zonder toevoegingsmateriaal voor algemene toepassing.
ASTM/ASME	A	358	Welded tubes with filler material. Gelaste buizen met toevoegingsmateriaal. Class 1 double vee welded and 100% X-ray tested. Klasse 1 tweezijdig gelast en 100% radiografisch onderzoek. Class 2 double vee welded without X-ray testing. Klasse 2 tweezijdig gelast zonder radiografisch onderzoek. Class 3 vee welded and 100% X-ray tested Klasse 3 eenzijdig gelast en 100% radiografisch onderzoek. Class 4 vee welded, the weld on the inside of the tube without filler material & X-ray tested. Klasse 4 eenzijdig gelast, de las aan de binnenkant van de buis zonder toevoegingsmateriaal en 100% radiografisch onderzoek. Class 5 double vee welded and X-ray tested locally Klasse 5 tweezijdig gelast en plaatselijk radiografisch onderzoek.
ASTM/ASME	A	403	Stainless steel fittings Roestvaststaal lasfittingen.
ASTM/ASME	A	409	Welded austenitic tubes for corrosive or high temperature service. Gelaste austenitische buizen voor corrosief of hoog temperatuur gebruik.
ASTM/ASME	A	450	General standard for carbon, ferritic & austenitic alloyed steel tube. Algemene norm voor koolstofstaal, ferritische & austenitische roestvaststalen buizen.
ASTM/ASME	A	451	Standard for stainless steel centrifugally cast tube. Norm voor roestvaststaal centrifugaal gegoten buis.
ASTM/ASME	A	473	Stainless steel & heat resistant forgings. Roestvaststaal & hittebestendige smeedstukken.

ANSI (American National Standards Institute)
ANSI (American National Standards Institute)

ASME	B	16.5	Stainless steel flanges as per ASTM. Roestvast flenzen volgens ASTM.
ASME	B	16.9	Stainless steel fittings as per ASTM. Roestvaststaal fittingen volgens ASTM.
ASME	B	16.11	Forged fittings & without threads as per ASME. Gesmede las- en draadfittingen volgens ASTM.
ASME	B	16.25	Form of welding studs. Vorm van laseinden.

MSS (Manufacturers Standardization Society)
MSS (Manufacturers Standardization Society)

MSS	SP	6	Packing faces of flanges. Pakkingvlakken van flenzen.
MSS	SP	25	Marking system for ASTM, flanges & couplings. Merksysteem voor ASTM, flenzen & koppelingen.
MSS	SP	43	ASTM fittings ASTM Fittingen.

DIN (Deutsche Industrie Norm)**DIN (Duitse Industrie Norm)**

DIN	11850	Dimensions, tolerances and weights of stainless steel tubes for dairyindustrie Afmetingen, toleranties en gewichten van roestvaststalen buizen voor Foodsector
DIN	11866	Dimensions, tolerances and weights of stainless steel tubes for Pharmaindustrie Afmetingen, toleranties en gewichten van roestvaststalen buizen voor Pharmasector
DIN	17458	Seamless round austenitic stainless steel tubes for special application. Naadloze ronde austenitische roestvaststaal buizen voor speciale toepassingen.
DIN	2353	Pipe thread connector with cutting ring. Pijpschroefverbinding.
DIN	2462	Tolerances for stainless steel seamless tube. Toleranties voor roestvaststaal naadloze buis.
DIN	2605	Elbows. Bochten.
DIN	2606	Elbows. Bochten.
DIN	2615	Tees. Las T-stukken.
DIN	2616	Reducers. Las verlopen.
DIN	2617	Caps Bolkappen.

ISO (International Organization for Standardization)**ISO (Internationale Organisatie voor Standaardisatie)**

ISO	1127	Dimensions, tolerances and weights of stainless steel tubes. Afmetingen, toleranties en gewichten van roestvaststalen buizen.
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EN (European Standards)**EN (Europese Normen)**

EN	10088-1	List of corrosion resistant steel types. Lijst van corrosievaste staalsoorten.
EN	10204	Types of inspection documents. Soorten keuringsdocumenten.
EN	10296-2	Welded round stainless steel tubes for general applications. Gelaste ronde roestvaststalen buizen voor algemene toepassingen.
EN	10297-2	Seamless round austenitic stainless steel tubes for general applications. Naadloze ronde roestvaststalen buizen voor algemene toepassingen.
EN	10217-7	Welded round austenitic stainless steel tubes for special applications. Gelaste ronde austenitische roestvaststalen buizen voor speciale toepassingen.
EN	ISO 1127	Tolerance for stainless steel welded tube. Toleranties voor roestvaststaal gelaste buis.
EN	EN 1092-1	Blind flanges PN 6-100.
EN	type 5 PN 6-100	Blindflenzen PN 6-100.
EN	EN 1092-1	Flat welding flanges PN 10.
EN	type 1 PN 10	Vlakke aanlasflenzen PN 10.
EN	EN 1092-1	Welding neck flanges PN 10.
EN	type 11 PN 10	Voorlasflenzen PN 10.
EN	EN 1092-1	Welding neck flanges PN 16.
EN	type 11 PN 16	Voorlasflenzen PN 16.
EN	EN 1092-1	Welding neck flanges PN 25.
EN	type 11 PN 25	Voorlasflenzen PN 25.
EN	EN 1092-1	Welding neck flanges PN 40.
EN	type 11 PN 40	Voorlasflenzen PN 40.
EN	EN 1092-1	Welding neck flanges PN 64.
EN	PN 64	Voorlasflenzen PN 64.
EN	EN 1092-1	Collar rings and flanges PN 10.
EN	PN 10	Boordringen en flenzen PN 10.

NFA (French Standards)
NFA (Franse Normen)

NFA	49117	Seamless pipes. Naadloze buizen.
NFA	49147	Longitudinal welded pipes. Langsnaad gelaste buizen.
NFA	29203	Non alloy, alloy, austenitic stainless steel flanges and collars. Flenzen en kragen in staal en roestvaststaal.

Approximate comparison table
Benaderende vergelijkingstabel

The standards that correspond with DIN material Numbers can only be compared approximately.

The use of these equivalents has to be evaluated on a case-by-case basis.

De normen die overeenkomen met DIN-Werkstofnummers kunnen slechts bij benadering vergeleken worden.

De inzetbaarheid van de equivalenten moet afzonderlijk beoordeeld worden.

W.-Nr.	DIN	EN	AISI (1)	UNS (2)	SS (3)	AFNOR (4)	BS (5)
1.4005	X 12 CrS 13	X 12 CrS 13	416	S 41600	2.380	Z 11 Cf 13	416 S 21
1.4006	X 10 Cr 13	X 12 Cr 13	410	S 41000	2302	Z 12 C 13	410 S 21
1.4016	X 6 Cr 17	X 6 Cr 17	430	S 43000	2320	Z 10 C 17	430 S 15
1.4021	X 20 Cr 13	X 20 Cr 13	420	S 42000	2.303	Z 20 C 13	420 S 37
1.4034	X 46 Cr 13	X 46 Cr 13			[2304]	Z 40 C 14	[420 S 45]
1.4057	X 20 CrNi 17 2	X 17 CrNi 16 2	431	S 43100	2321	Z 15 CN 16.02	431 S 29
1.4104	X 12 CrMoS 17	X 14 CrMoS 17	430 F	S 43020	2383	Z 13 CF 17	[441 S 29]
1.4112	X 90 CrMoV 18	X 90 CrMoV 18	440 B	S 44003	2327	Z 2 CND 18 05	
1.4122	X 35 CrMo 17	X 39 CrMo 17 1					
1.4301	X 5 CrNi 18 10	X 5 CrNi 18 10	304	S 30400	2333	Z 6 CN 18.09	304 S 15
1.4305	X 10 CrNiS 18 9	X 8 CrNiS 18 9	303	S 30300	2346	Z 8 CNF 18.09	303 S 31
1.4306	X 2 CrNi 19 11	X 2 CrNi 19 11	304 L	S 30403	2352	Z 2 CN 18.10	304 S 11
1.4307	X 2 CrNi 18 9	X 2 CrNi 18 9	304 L		2352	Z 3 CN 18.10	304 S 11
1.4308	GX 5 CrNi 19 10	GX 5 CrNi 19 10	304	J 92600		Z 6 CN 18.10 M	304 C 15
1.4310	X 12 CrNi 17 7	X 10 CrNi 18 8	301	S 30100	2331	Z 12 CN 18.08	301 S 21
1.4311	X 2 CrNiN 18 10	X 2 CrNiN 18 10	304 LN	S 30453	2371	Z 2 CN 18.10 Az	301 S 21
1.4362	X 2 CrNiN 23 4	X 2 CrNiN 23 4		S 31500	2327	Z 2 CND 18.05	
1.4401	X 5 CrNiMo 17 12 2	X 5 CrNiMo 17 12 2	316	S 31600	2347	Z 7 CND 17.12.02	316 S 31
1.4404	X 2 CrNiMo 17 13 2	X 2 CrNiMo 17 12 2	316 L	S 31603	2348	Z 3 CND 18.12.02	316 S 11
1.4408	GX 5 CrNiMo 19 11 2	GX 5 CrNiMo 19 11 2	316	J 92600		Z 6 CND18.12M	316 C 15
1.4435	X 2 CrNiMo 18 14 3	X 2 CrNiMo 18 14 3	316 L	S 31603	2353	Z 3 CND 18.14.03	316 S 11
1.4436	X 5 CrNiMo 17 13 3	X 3 CrNiMo 17 13 3	316	S 31600	2343	Z 7 CND 18.12.03	316 S 31
1.4438	X 2 CrNiMo 18 16 4	X 2 CrNiMo 18 15 4	317 L	S 31703	2367	Z 3 CND 19.15.04	317 S 12
1.4439	X 2 CrNiMoN 17 13 5	X 2 CrNiMoN 17 13 5	317 LNM	S 31726		Z 2 CNDU 17.16	
1.4449	X 5 CrNiMo 17 13		317	S 31700			317 S 16
1.4460	X 4 CrNiMoN 27 5 2	X 3 CrNiMoN 27 5 2	329	S 32900	2324	Z 5 CND 27.05 Az	
1.4462	X 2 Cr Ni Mon 22 5 3	X 2Cr Ni MoN 22 5 3		S 31803	2377	Z 2 CND 22.05 Az	
1.4465	X 1 CrNiMon 25 25 2			S 31050		Z 2 CND 25.22 Az	
1.4539	X 1NiCrMoCuN 25 20 5	X 1 NiCrMoCuN 25 20 5		N 08904	2562	Z 1 NCDU 25.20	
1.4541	X 6 CrNiTi 18 10	X 6 CrNiTi 18 10	321	S 32100	2337	Z 6 CNT 18.10	321 S 31
1.4550	X 6 CrNiNb 18 10	X 6 CrNiNb 18 10	347	S 34700	2338	Z 6 CNNb 18.10	347 S 31
1.4571	X 6 CrNiMoTi 17 12 2	X 6 CrNiMoTi 17 12 2	316 Ti	S 31635	2350	Z 6 CNDT 17.12	320 S 31
1.4713	X 10 CrAl 7					Z 8 CA 7	
1.4724	X 10 CrAl 13					[Z 10 C 13]	
1.4742	X 10 CrAl 18					Z 10 CAS 18	
1.4749	X 18 CrN 28		446- 1	S 44600	2322		
1.4762	X 10 CrAl 24		[446]	[S44600]	[2322]	Z 10 CAS 24	
1.4821	X 20 CrNiSi 25 4					Z 20 CNS 25.04	
1.4828	X 15 CrNiSi 20 12		309	[S 30900]		Z 15 CNS 20.12	309 S 24
1.4841	X 15 CrNi 25 20		314	S 31400		Z 12 CNS 25.20	314 S 25
1.4845	X 12 CrNi 25 21		310 S	S 31008	2361	Z 12 CN 25.20	310 S 24
1.4864	X 12 NiCrSi 36 16		330	N 08330		Z 12 CNS 35.16	[3076 NA 17]
1.4876	X 10 NiCrAlTi 32 20		B 163			Z 8 NC 32.21	3076 NA 15 H
1.4878	X 12 CrNiTi 18 9		321	S 32100	2337	Z 6 CNT 18.12	321 S 51
2.4068	LC Ni 99		B 160				
2.4360	Ni Cu 30 Fe		B 164				3076 NA 13
2.4375	Ni Cu 30 Al						3076 NA 18
2.4610	Ni Mo 16 Cr 16 Ti						3076 NA 45
2.4816	Ni Cr 15 Fe		B 166				3076 NA 14
2.4856	Ni Cr 21 Mo						3076 NA 43

1) AISI = American Iron & Steel Institute

ASTM = American Society for Testing & Materials

2) UNS = Unifeid Numbering Systems

3) SS = Swedisch Standard

4) AFNOR = Association Francaise de Normalisation

5) BS = Britisch Standard

Comparison table different names of stainless steel
Vergelijkingstabel naamsaanduidingen roestvaststaal

Grade/kwaliteit

Stainless steel 304
Roestvaststaal 304

	C Max.	Si Max.	Mn Max.	P Max.	S Max.	Cr Max.	Ni Max.	Mo Max.
DIN W.-Nr. 1.4301	0,07	1,00	2,00	0,045	0,030	17,0-19,0	8,5-10,5	
AISI-TP-304	0,08	0,75	2,00	0,040	0,030	18,0-20,0	8,0-11,0	
BS GRADE 304 S 18	0,06	0,20-1,00	0,50-2,00	0,040	0,030	17,0-19,0	9,0-12,0	
SIS 2332	0,07	1,00	2,00	0,045	0,030	17,0-19,0	8,0-11,0	
AFNOR Z6CN18.09	0,08	1,00	2,00	0,040	0,030	17,0-20,0	8,0-11,0	
JIS-SUS 304 (SUS 27 B)	0,08	1,00	2,00	0,045	0,030	18,0-20,0	8,0-10,5	
BS GRADE 304 S 25	0,06	0,20-1,00	0,50-2,00	0,045	0,030	17,0-19,0	8,0-11,0	
DIN W.-Nr 1.4308	0,07	1,50	1,50	0,040	0,030	18,0-20,0	8,0-11,0	

Stainless steel 304L
Roestvaststaal 304L

	C Max.	Si Max.	Mn Max.	P Max.	S Max.	Cr Max.	Ni Max.	Mo Max.
DIN W.-Nr. 1.4306	0,03	1,00	2,00	0,045	0,030	18,0-20,0	10,0-12,5	
DIN W.-Nr. 1.4307	0,03	1,00	2,00	0,045	0,015	17,0-19,5	8,0-10,0	
AISI-TP-304 L	0,03-0,035	0,75	2,00	0,040	0,030	18,0-20,0	8,0-13,0	
BS GRADE 304 S 14	0,03	0,20-1,00	0,50-2,00	0,040	0,030	17,0-19,0	10,0-13,0	
SIS 2352	0,03	1,00	2,00	0,045	0,030	17,0-19,0	9,0-12,0	
AFNOR Z2CN18.10	0,03	1,00	2,00	0,040	0,030	17,0-20,0	9,0-12,0	
JIS-SUS 304 (SUS 28 B)	0,03	1,00	2,00	0,045	0,030	18,0-20,0	9,0-13,0	
BS GRADE 304 S 22	0,03	0,20-1,00	0,50-2,00	0,045	0,030	17,0-19,0	9,0-12,0	

Stainless steel 316
Roestvaststaal 316

	C Max.	Si Max.	Mn Max.	P Max.	S Max.	Cr Max.	Ni Max.	Mo Max.
DIN W.-Nr. 1.4401	0,07	1,00	2,00	0,045	0,030	16,5-18,5	10,5-13,5	2,0-2,5
SIS 2343	0,07	1,00	2,00	0,045	0,025	16,5-18,5	11,0-14,0	2,5-3,0
AISI-TP-316	0,08	0,75	2,00	0,040	0,030	16,0-18,0	11,0-14,0	2,0-3,0
BS GRADE 316 S 18	0,07	0,20-1,00	0,50-2,00	0,040	0,030	16,0-18,5	11,0-14,0	2,0-3,0
SIS 2347	0,05	1,00	2,00	0,045	0,030	16,0-18,5	10,5-14,0	2,0-2,5
AFNOR Z6CN17.11	0,07	1,00	2,00	0,040	0,030	16,0-18,0	10,0-12,5	2,0-2,7
JIS-SUS 316 (SUS 32 B)	0,08	1,00	2,00	0,045	0,030	16,0-18,0	10,0-14,0	2,0-3,0
BS GRADE 316 S 25	0,07	0,20-1,00	0,50-2,00	0,045	0,030	16,5-18,5	10,5-13,5	2,0-2,5
DIN W.-Nr 1.4408	0,07	1,50	1,50	0,040	0,030	18,0-20,0	9,0-12,0	2,0-2,5

Stainless steel 316L
Roestvaststaal 316L

	C Max.	Si Max.	Mn Max.	P Max.	S Max.	Cr Max.	Ni Max.	Mo Max.
DIN W.-Nr. 1.4404	0,03	1,00	2,0	0,045	0,030	16,5-18,5	11,0-14,0	2,0-2,5
SIS 2353	0,03	1,00	2,00	0,045	0,025	17,0-18,5	12,5-15,0	2,5-3,0
AISI-TP-316L	0,035	0,75	2,00	0,040	0,030	16,0-18,0	10,0-15,0	2,0-3,0
BS GRADE 316 S 14	0,03	0,20-1,00	0,50-2,00	0,040	0,030	16,0-18,5	12,0-15,0	2,0-3,0
SIS 2348	0,03	1,00	2,00	0,045	0,030	16,0-18,5	11,0-14,0	2,0-2,5
AFNOR ZCN17.12	0,03	1,00	2,00	0,040	0,030	16,0-18,0	10,5-13,0	2,0-2,4
AFNOR Z2CN17.13	0,03	1,00	2,00	0,040	0,030	16,0-18,0	11,5-13,5	2,5-3,0
JIS-SUS 316L (SUS 33 B)	0,03	1,00	2,00	0,045	0,030	16,0-18,0	12,0-15,0	2,0-3,0
BS GRADE 316 S 24	0,03	0,20-1,00	0,50-2,00	0,045	0,030	16,5-18,5	11,0-14,0	2,0-2,5

Gasket Qualities	NBR Nitrile rubber (Perbunan)	EPDM Ethylene propylene rubber	VMQ Silicone rubber	FKM Fluororubber (Viton)	PTFE Teflon rubber	HNBR Hydrogenated acryl. butadiene rubber
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Color	Blue	Black	Red/Transparent	Black/Green	White	Black
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Operating temp.

Water	+90° C +120° C +90° C (short time)	+130° C - +130° C	+90° C - +120° C (short time)	+80° C +200° C +120° C (short time)	+240° C +240° C +240° C	+130° C +140° C +130° C (short time)
Edible oils						
Steam sterilizable (max.)						
Minimum temp. reach	-20° C	-40° C	-20° C	-15° C	-200° C	-25° C

Acids/Lyes

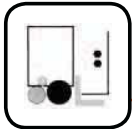
	Depend. concentration	Depend. concentration	Depend. concentration	Depend. concentration	Depend. concentration	
examples:						
Caustics soda solution 5%	O	+	O	O	+	+
Nitric acid 5%	O	+	O	+	+	+
Phosphoric acid 2%	+	+	+	+	+	+
Milk < 5% fat	+	+	+	+	+	+
Beer, cold wort	+	+	+	+	+	+
Hot wort	-	O	-	-	+	+
Distilled water		+			+	+

General

	Depend. concentration	Depend. concentration	Depend. concentration	Depend. concentration	Depend. concentration	
Mineral oil/fat	O	-	O	+	+	+
Animal oil/fat	+	-	O	+	+	+
Vegetable oil/fat	+	-	O	+	+	+
Inorganic salts	O	+	O	+	+	+
Diluted lyes	O	+	O	O	+	+
Diluted inorganic acids	O	+	O	+	+	O
Concentrated lyes	-	+	-	-	+	O
Concentr. Inorganic acids	-	O	-	+	+	-
Alcohol	-	+	O	+	+	O
Organic acids	-	O	-	-	+	-
Ester	O	+	O	-	+	O
Ether	O	-	O	-	+	-
Hydrocarbon	O	-	-	O	+	-
Fuels	O	-	-	+	+	O
Ozone	-	+	+	+	+	+

+ = **Resistant** O = **Limited resistant** - = **Not resistant**

This list should not be regarded as binding ! Every constancy or other characteristic is dependent on the medium for which it is used, as well as the combination of conditions !



1.0 Sheets & Bars / Plaat & staf

Page 11-15



2.0 Pipes / Buis

Page 16-22



3.0 Pipefittings / Buisfittingen

- 3.1 Bends / Bochten
- 3.2 Tees / T-stukken
- 3.3 Reducers / Verlopen
- 3.4 ISO & METRIC

Page 24-25
Page 36-43
Page 44-49
Page 50-60



4.0 Pipe connections / Buisverbindingen

- 4.1 Connection parts 11851 / Koppelingen 11851
- 4.2 Connection parts 11864 & 11853 / Koppelingen 11864 & 11853
- 4.3 Clamp connection / Triclampverbindingen
- 4.4 Connection parts SMS, RJT, IDF / Koppelingen SMS, RJT, IDF
- 4.5 BSP fittings / BSP fittingen

Page 62-73
Page 74-102
Page 103-105
Page 106-109
Page 110-115



5.0 Assembly Equipment / Montagetoebereiden

- 5.1 Pipe Clamps / Kapbeugels
- 5.2 Installation accessories / Installatie accessoires

Page 117-122
Page 123-125



6.0 Butterfly valves / Vlinderkleppen

- 6.1 Leakage Butterfly valves / Lekdetectie - Vlinderkleppen

Page 127-145
Page 146-147



7.0 Single Seat valves / Mix-proof valves

Page 148-162



8.0 Check valves / Terugslagkleppen & Kranen

Page 163-173



9.0 Sundries / Diversen

- 9.1 Sight Glasses / Kijkglazen
- 9.2 Filters / Filters
- 9.3 Pressure gauges / Manometers

Page 175-183
Page 184-190
Page 191-192

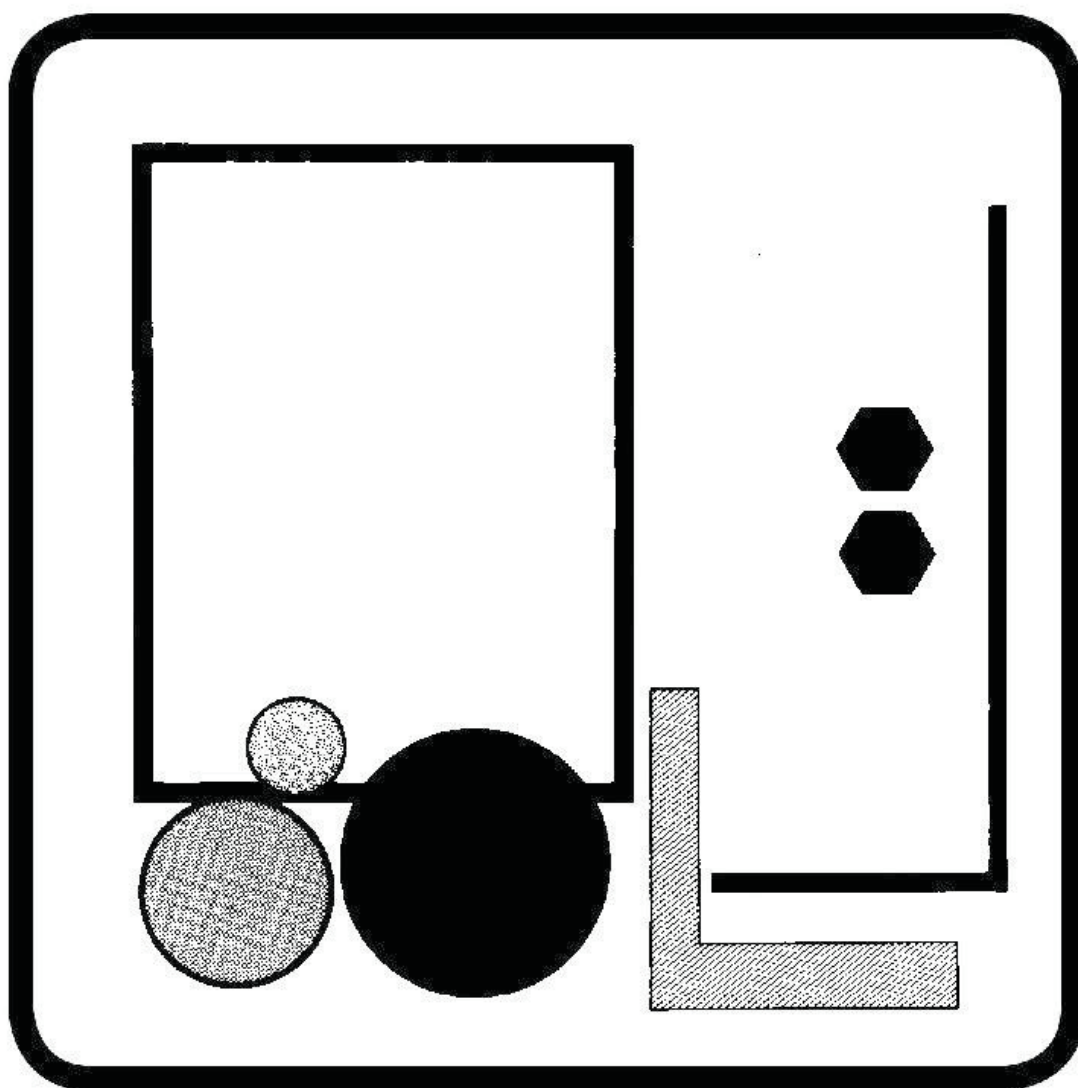


10.0 Tankequipment / Tankarmaturen

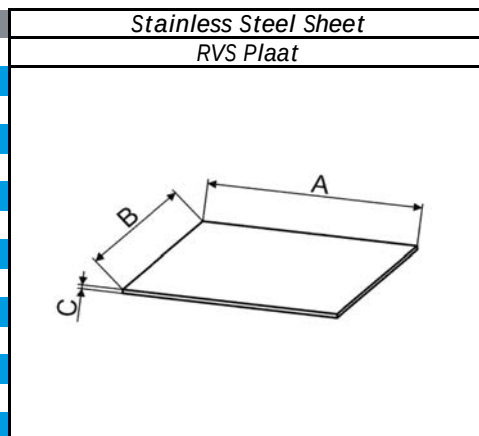
- 10.1 Manholes / Mangatdeksels
- 10.2 Tankequipment sundries / Tankarmaturen diversen
- 10.3 Sprayballs / Sproeibollen

Page 194-198
Page 199-202
Page 203-205

1.0 - *Sheets & Bars*
Plaat & staf

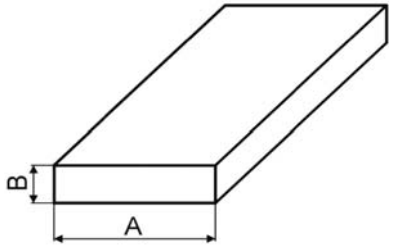


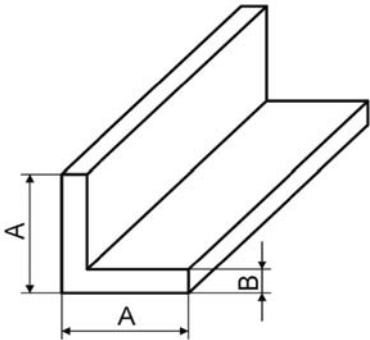
NW	A	B	C	th. gew. mtr ²
	2000	1000	0,5	8,00
	2000	1000	0,6	9,60
	2000	1000	0,8	12,80
	2500	1250		20,00
	3000	1250		24,00
	3000	1500		28,80
	2000	1000	1,0	16,00
	2500	1250		25,00
	3000	1000		24,00
	3000	1250		30,00
	3000	1500		36,00
	2000	1000	1,3	20,00
	2500	1250		21,25
	3000	1250		37,50
	3000	1500		45,00
	2000	1000	1,5	24,00
	2500	1250		37,50
	3000	1000		36,00
	3000	1250		45,00
	3000	1500		54,00
	4000	1500		72,00
	2000	1000	2,0	32,00
	2500	1250		50,00
	3000	1000		48,00
	3000	1250		60,00
	3000	1500		72,00
	4000	1500		96,00
	2000	1000	2,5	40,00
	2500	1250		62,50
	3000	1500		90,00
	2000	1000	3,0	48,00
	2500	1250		75,00
	3000	1000		72,00
	3000	1250		90,00
	3000	1500		108,00
	4000	1500		144,00
	2000	1000	4,0	64,00
	2500	1250		100,00
	3000	1250		120,00
	3000	1500		144,00
	4000	1500		192,00



For further measurements please contact us !

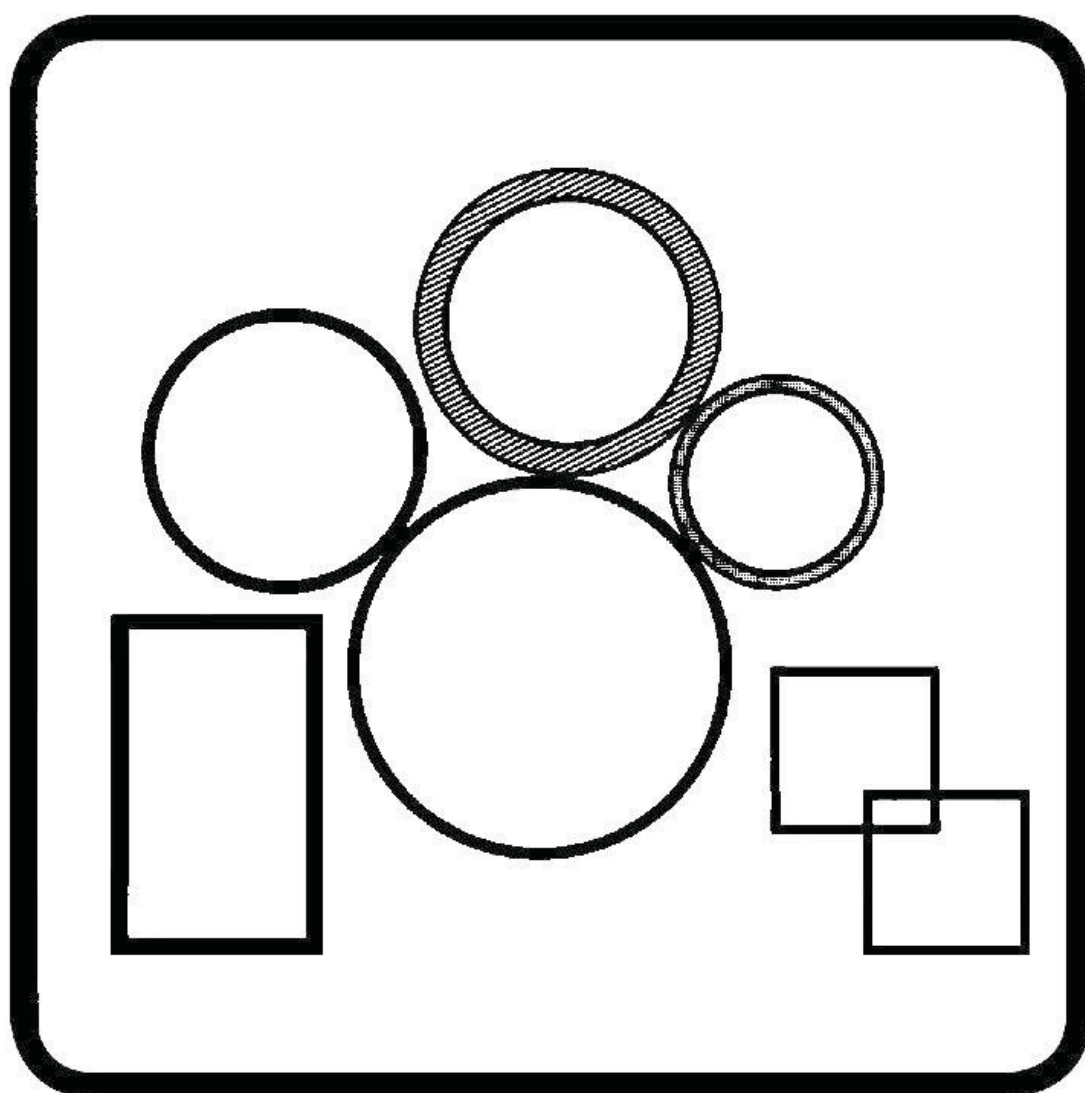
[illegible]

NW	A x B	th. gew.	A x B	th. gew.	A x B	th. gew.	Flat bar Strip
		mtr ¹		mtr ¹		mtr ¹	
	10 x 3	0,27	45 x 3	1,17	70 x 30	16,80	
	x 4	0,34	x 4	1,49	75 x 5	3,10	
	x 5	0,42	x 5	1,80	x 6	3,80	
	x 6	0,49	x 6	2,17	x 8	4,91	
	12 x 3	0,30	x 8	2,88	x10	5,99	
	x 4	0,39	x10	3,60	x12	7,27	
	x 5	0,49	x12	4,33	x15	9,08	
	x 6	0,60	x15	5,40	x20	11,00	
	x 8	0,78	x20	7,22	x25	14,72	
	x10	0,97	50 x 3	1,30	x30	17,76	
	15 x 3	0,39	x 4	1,65	80 x 4	2,56	
	x 4	0,49	x 5	2,00	x 5	3,20	
	x 5	0,61	x 6	2,42	x 6	3,85	
	x 6	0,74	x 8	3,20	x 8	5,13	
	x 8	0,97	x10	4,02	x10	6,40	
	x10	1,20	x12	4,80	x12	7,68	
	20 x 3	0,52	x15	6,00	x15	9,60	
	x 4	0,67	x20	8,00	x20	12,80	
	x 5	0,80	x25	10,00	x25	16,00	
	x 6	0,97	x30	12,00	x35	19,20	
	x 8	1,28	55 x 5	2,26	x40	25,60	
	x10	1,60	x 6	2,78	90 x 5	3,60	
	x12	1,93	x 8	3,60	x 6	4,33	
	x15	2,42	x10	4,45	x 8	5,77	
	25 x 3	0,65	x12	5,30	x10	7,22	
	x 4	0,82	x15	6,60	x12	8,65	
	x 5	1,00	x20	8,71	x15	10,80	
	x 6	1,20	x25	10,00	x20	14,40	
	x 8	1,60	60 x 3	1,55	x25	18,00	
	x10	2,00	x 4	1,99	x30	31,60	
	x12	2,42	x 5	2,42	100x 3	2,59	
	x15	3,00	x 6	2,88	x 4	3,30	
	30 x 3	0,79	x 8	3,85	x 5	4,02	
	x 4	1,00	x10	4,80	x 6	4,80	
	x 5	1,20	x12	5,77	x 8	6,40	
	x 6	1,45	x15	7,22	x10	8,00	
	x 8	1,93	x20	9,60	x12	9,60	
	x10	2,43	x25	12,00	x15	12,00	
	x12	2,88	x30	14,40	x20	16,00	
	x15	3,60	x40	19,20	x25	20,00	
	35 x 3	0,92	65 x 5	2,65	x30	24,10	
	x 4	1,17	x 6	3,20	x35	27,91	
	x 5	1,40	x 8	4,22	x40	32,00	
	x 6	1,68	x10	5,18			
	x 8	2,25	x12	6,22			
	x10	2,80	x15	7,71	For further measurements please contact us !		
	x12	3,37	x20	10,35			
	x15	4,20	x25	12,00			
	x20	5,62	x30	15,60			
	40 x 3	1,04	x35	18,02			
	x 4	1,32	x40	20,70			
	x 5	1,60	70 x 4	2,24			
	x 6	1,93	x 5	2,80			
	x 8	2,57	x 6	3,37			
	x10	3,20	x 8	4,48			
	x12	3,85	x10	5,62			
	x15	4,80	x12	6,73			
	x20	6,40	x15	8,40			
	x25	8,00	x20	11,20			
	x30	9,60	x25	14,00			

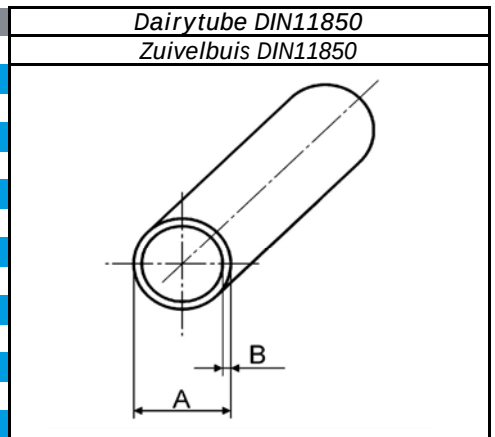
Angle bar Hoekprofiel 	NW	A x B	th. gew. mtr ¹
		20 x 20x 3	0,98
		20 x 20x 4	1,19
		20 x 20x 5	1,45
		25 x 25x 3	1,24
		25 x 25x 4	1,55
		25 x 25x 5	1,82
		30 x 30x 3	1,51
		30 x 30x 4	1,87
		30 x 30x 6	2,69
		40 x 40x 4	2,56
		40 x 40x 5	3,03
		40 x 40x 8	4,78
		50 x 50x 5	3,85
		50 x 50x 6	4,57
		50 x 50x 7	5,27
		50 x 50x 9	6,80
		50 x 50x10	7,29
		60 x 60x 6	5,53
		60 x 60x 8	7,23
		60 x 60x10	8,87
		65 x 65x 6	6,08
		65 x 65x 9	8,78
		70 x 70x 7	7,53
		70 x 70x 9	9,50
		70 x 70x11	11,29
		75 x 75x 6	6,98
		75 x 75x 9	10,20
		75 x 75x11	11,40
		80 x 80x 8	9,82
		80 x 80x10	12,08
		80 x 80x12	14,29
		90 x 90x 7	9,96
		90 x 90x 9	12,40
		90 x 90x11	15,29
		100 x100x 6	9,61
		100 x100x 8	12,40
		100 x100x10	15,30
		100 x100x12	18,10
		100 x100x13	19,61
		100 x100x14	20,80
		100 x100x15	22,20

For further measurements please contact us !

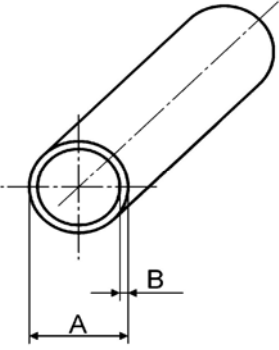
2.0 - Pipes Buis



NW	A	B	th. gew. mtr ¹
10	12,0	1,0	0,28
	12,0	1,5	0,39
	13,0	1,5	0,43
15	18,0	1,0	0,43
	18,0	1,5	0,62
	19,0	1,5	0,66
20	22,0	1,0	0,53
	22,0	1,5	0,77
	23,0	1,5	0,81
25	28,0	1,0	0,68
	28,0	1,5	1,00
	29,0	1,5	1,03
32	34,0	1,0	0,83
	34,0	1,5	1,22
	35,0	1,5	1,26
40	40,0	1,0	0,98
	40,0	1,5	1,45
	41,0	1,5	1,49
50	52,0	1,0	1,28
	52,0	1,5	1,90
	53,0	1,5	1,94
65	70,0	2,0	3,41
80	85,0	2,0	4,16
100	104,0	2,0	5,11
125	129,0	2,0	6,36
150	154,0	2,0	7,61
200	204,0	2,0	10,12
250	254,0	2,0	12,70

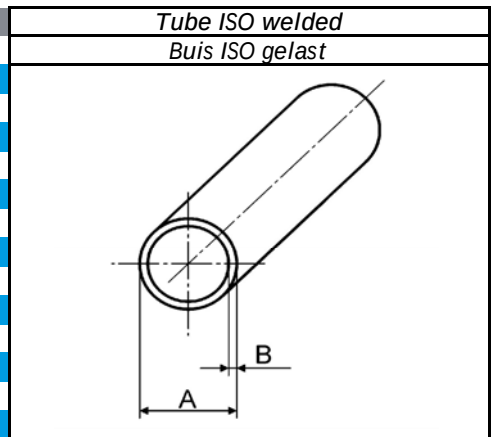


For further measurements please contact us !

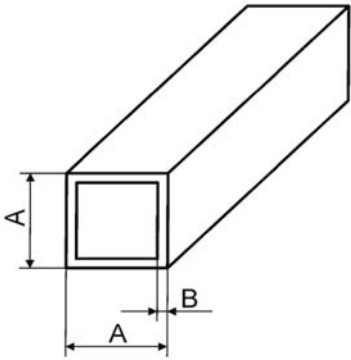
Dairytube Inch Zuivelbuis Inch	NW	A	B	th. gew. mtr ¹
	1"	25,0	1,20	0,72
		25,4	1,25	0,76
		25,4	1,65	0,72
	1,25"	31,8	1,25	0,96
		31,8	1,50	1,15
	1,5"	38,0	1,20	1,11
		38,1	1,50	1,38
		38,1	1,65	1,51
	2"	50,8	1,50	1,85
		50,8	1,65	2,03
		51,0	1,20	1,50
	2,5"	63,5	1,50	2,33
		63,5	1,65	2,56
	3"	76,1	1,50	2,80
		76,1	1,65	3,08
		76,1	2,00	3,71
	4"	101,6	1,50	3,76
		101,6	2,00	4,99
		101,6	2,11	5,26

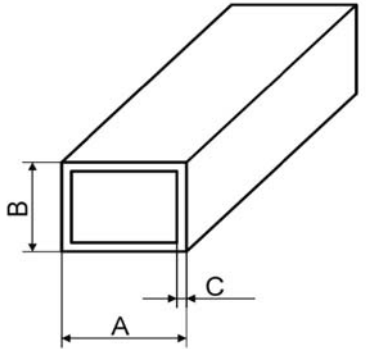
For further measurements please contact us !

NW	A	B	th. gew. mtr ¹
1/4"	13,5	1,60	0,41
3/8"	17,15	1,65	0,64
	17,2	2,00	0,76
	17,2	3,25	0,87
1/2"	21,3	1,60	0,79
	21,3	2,00	0,97
	21,3	2,77	1,29
3/4"	26,67	1,65	1,03
	26,9	2,00	1,25
	26,67	2,87	1,71
1"	33,7	1,60	1,32
	33,7	2,00	1,59
	33,4	2,77	2,13
1,25"	42,4	1,60	1,63
	42,4	2,00	2,02
	42,16	2,77	2,73
1,5"	48,3	1,60	1,92
	48,3	2,00	2,32
	48,3	2,77	3,16
	54,0	2,00	2,60
2"	60,3	1,60	2,35
	60,3	2,00	2,92
	60,3	2,77	3,99
2,5"	76,1	1,60	2,80
	76,1	2,00	3,71
	76,1	2,60	4,78
	84,0	2,00	4,11
3"	88,9	2,00	4,35
	88,9	2,11	4,59
	88,9	3,05	6,56
4"	114,3	2,00	5,62
	114,3	2,11	5,93
	114,3	3,05	8,49
5"	139,7	2,00	6,90
	139,7	3,00	10,27
	139,7	4,00	13,59
6"	168,3	2,00	8,33
	168,3	2,77	11,48
	168,3	3,40	14,04



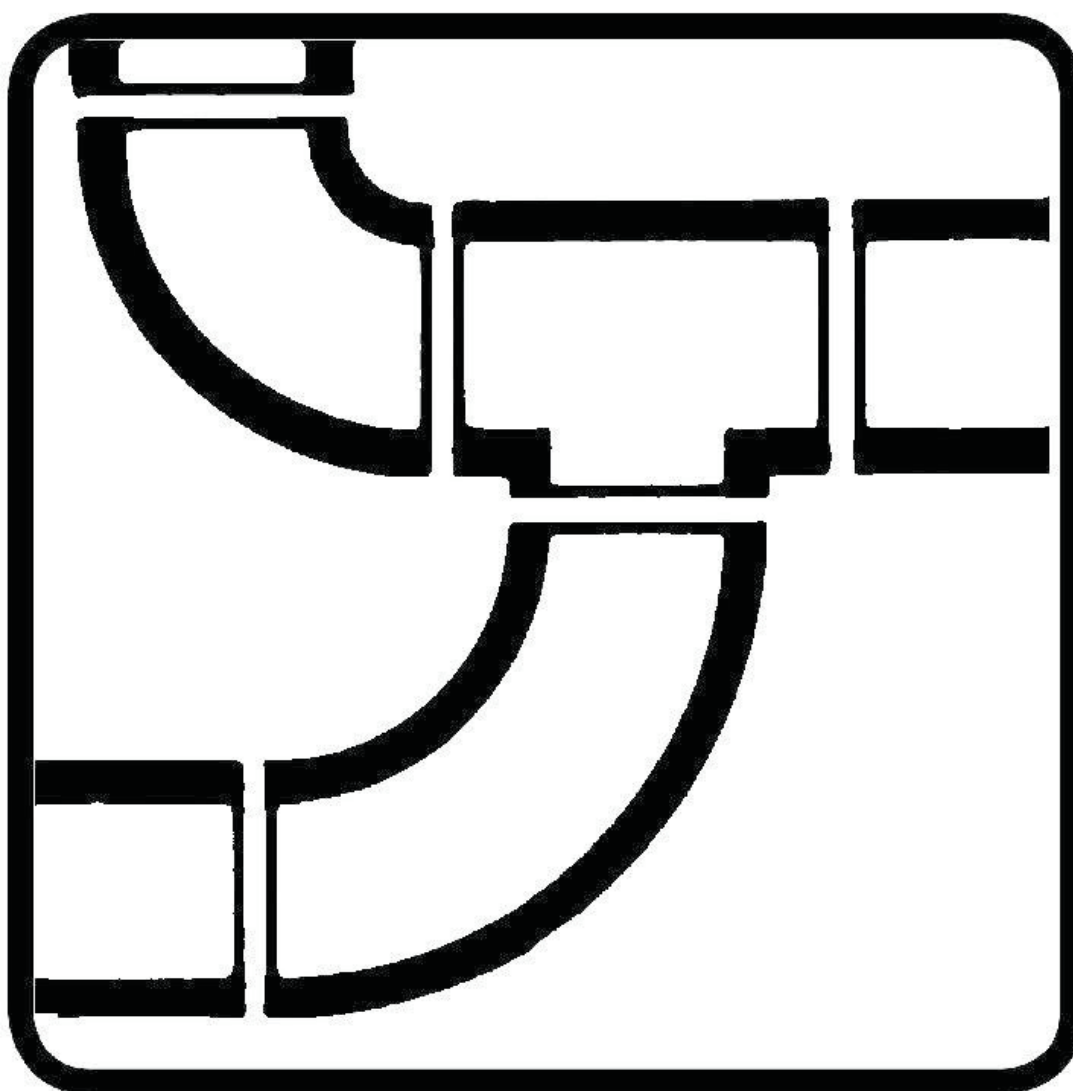
For further measurements please contact us !

Square tube Kokerprofil		A	B	th. gew. mtr ¹
		10x10	1,00	0,30
		15x15	1,50	0,66
		20x20	1,25	0,72
			1,50	0,89
			2,00	1,15
		25x25	1,50	1,14
			2,00	1,50
			3,00	2,27
		30x30	1,25	1,10
			0,15	1,38
			2,00	1,84
			3,00	2,72
		35x35	1,25	1,31
			1,50	1,60
			2,00	2,15
		40x40	1,25	1,49
			1,50	1,86
			2,00	2,52
			3,00	3,70
		45x45	2,00	2,78
		50x50	1,50	2,33
			2,00	3,08
			2,50	3,80
			3,00	4,65
			4,00	5,94
		60x60	2,00	3,70
			3,00	5,55
			4,00	7,22
			5,00	8,90
		70x70	3,00	6,53
		80x80	2,00	5,00
			3,00	7,53
			4,00	9,81
			5,00	12,39
		100x100	2,00	6,40
			3,00	9,53
			4,00	12,40
			5,00	15,38
		120x120	2,00	7,49
			3,00	11,30
			4,00	15,03
			5,00	18,40
		150x150	3,00	14,06
			4,00	18,62
		200x200	3,00	18,86
			4,00	25,02
For further measurements please contact us !				

A	B	th. gew. mtr ¹	Rectanglar tube Kokerprofil
20x10	1,50	0,66	
20x15	1,50	0,81	
25x15	1,50	0,88	
30x15	1,50	1,00	
30x20	1,50	1,13	
	2,00	1,50	
40x20	1,50	1,36	
	2,00	1,84	
40x30	2,00	2,15	
50x20	2,00	2,15	
50x25	1,50	1,75	
	2,00	2,34	
50x30	1,50	1,86	
	2,00	2,52	
	3,00	3,70	
60x20	2,00	2,52	
60x30	1,50	2,10	
	2,00	2,78	
	3,00	4,13	
60x40	1,50	2,33	
	2,00	3,08	
	3,00	4,65	
	4,00	5,94	
70x20	1,50	2,10	
80x40	2,00	3,70	
	3,00	5,55	
	4,00	7,22	
80x60	3,00	6,53	
100x40	2,00	4,38	
	3,00	6,53	
100x50	2,00	4,68	
	3,00	6,95	
	4,00	9,09	
	5,00	11,24	
100x60	2,00	5,00	
	3,00	7,53	
	4,00	9,81	
	5,00	12,39	
100x80	3,00	8,39	
120x60	3,00	8,39	
	4,00	11,05	
	5,00	13,75	
120x80	3,00	9,53	
	4,00	12,40	
	5,00	15,38	
150x50	4,00	12,40	
150x100	3,00	11,63	
	4,00	15,42	
200x100	3,00	14,13	
	4,00	18,74	

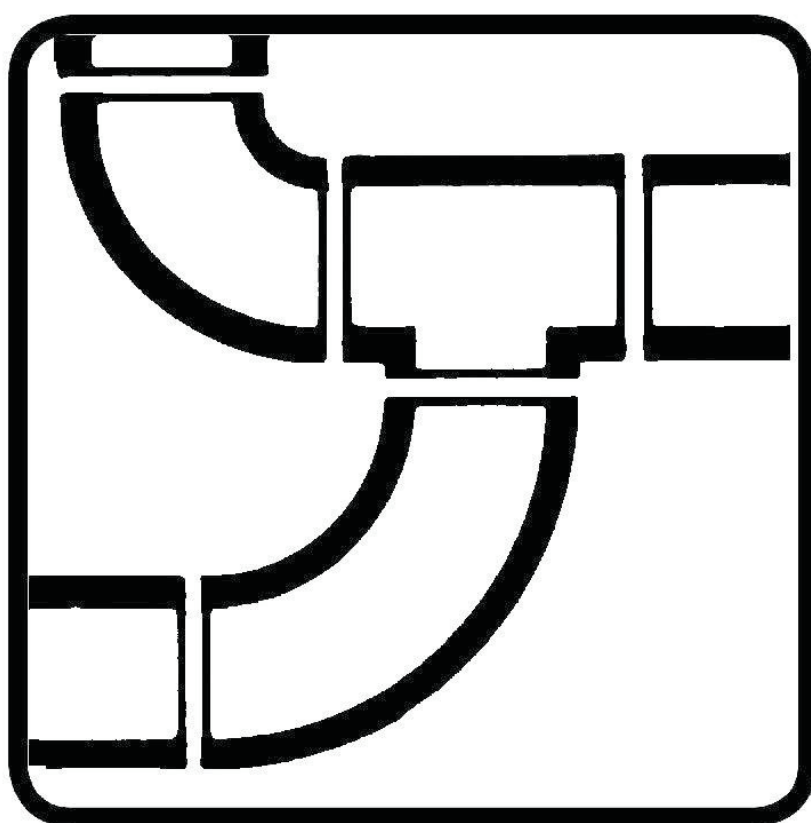
For further measurements please contact us !

3.0 - *Pipefittings* *Buisfittingen*

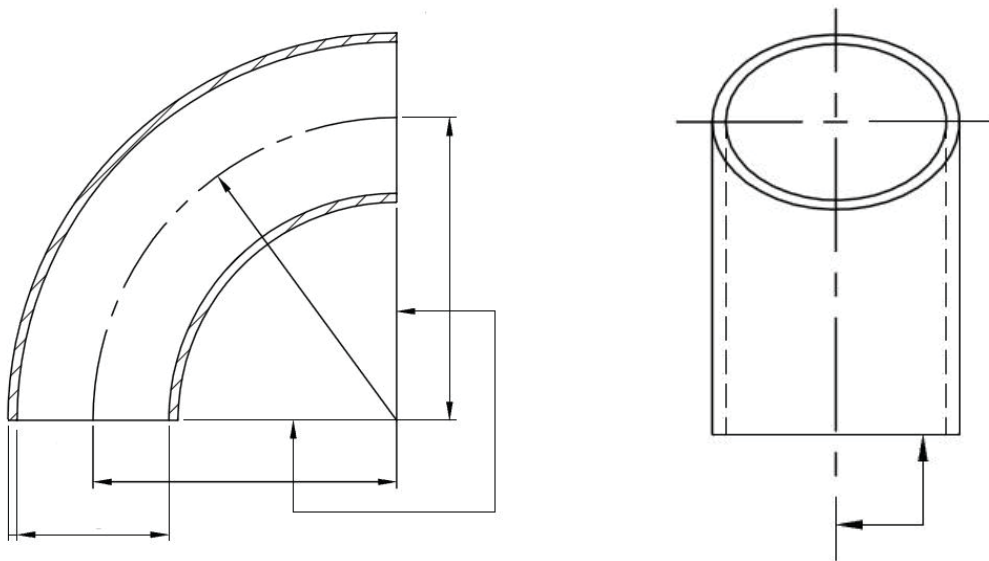


3.1 - *Pipefittings* *Buisfittingen*

Bends
Bochten



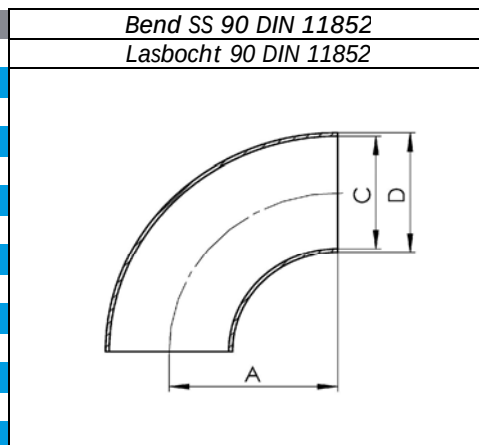
An important development within the food - & beverage industry are increasingly stringent quality standards around the stainless steel piping. To anticipate our bends (DIN11852, ISO2851) are standard internally polished $Ra = < 0,5\mu$



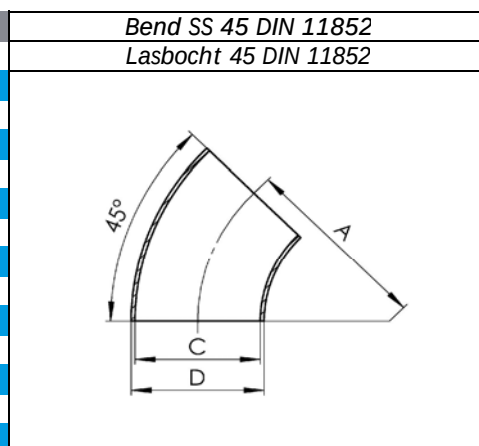
In addition to our catalogue we can manufacture on request bends with:

- Different radius
- Bends for pigging pipelines

NW	A	B	C	D	E
10	26		9	12	
10	26		10	13	
15	35		15	18	
15	35		16	19	
20	40		19	22	
20	40		20	23	
25	50		25	28	
25	50		26	29	
32	55		31	34	
32	55		32	35	
40	60		37	40	
40	60		38	41	
50	70		49	52	
50	70		50	53	
65	80		66	70	
80	90		81	85	
100	100		100	104	
125	187,5		125	129	
150	225		150	154	
200	300		200	204	



NW	A	B	C	D	E
10	26		9	12	
10	26		10	13	
15	35		15	18	
15	35		16	19	
20	40		19	22	
20	40		20	23	
25	50		25	28	
25	50		26	29	
32	55		31	34	
32	55		32	35	
40	60		37	40	
40	60		38	41	
50	70		49	52	
50	70		50	53	
65	80		66	70	
80	90		81	85	
100	100		100	104	
125	187,5		125	129	
150	225		150	154	
200	300		200	204	

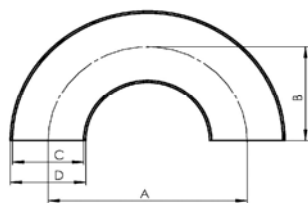


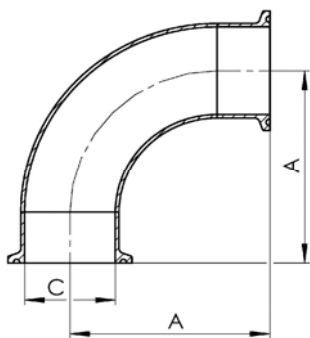
Expending Bend 90 DIN 11852 Walsbocht 90 DIN 11852	NW	A	B	C	D	E
	10	38	25	9/10	12/13	
	15	47	25	15/16	18/19	
	20	52	25	19/20	22/23	
	25	65	25	25/26	28/29	
	32	78	25	31/32	34/35	
	40	85	25	37/38	40/41	
	50	97	25	49/50	52/53	
	65	110	25	66	70	
	80	123	55	81	85	
	100	140	55	100	104	

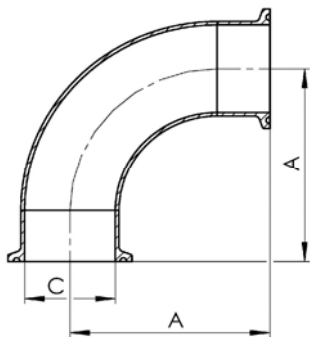
Bend 90 SMS Lasbocht 90 SMS	NW	A	B	C	D	E
	1"	38		22,6	25	
	1,25"	48		28,8	32	
	1,5"	57		34,8	38	
	2"	76		47,8	51	
	2,5"	95		60,3	63,5	
	3"	114		72,8	76	
	4"	152		97,6	101,6	

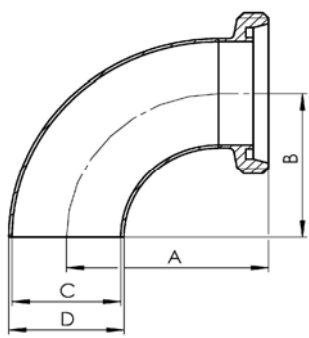
Bend 45 SMS Bocht 45 SMS	NW	A	B	C	D	E
	1"	38		22,6	25	
	1,25"	48		28,8	32	
	1,5"	57		34,8	38	
	2"	76		47,8	51	
	2,5"	95		60,3	63,5	
	3"	114		72,8	76	
	4"	152		97,6	101,6	

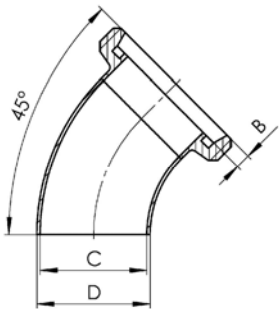
Expending Bend 90 SMS Walsbocht 90 SMS	NW	A	B	C	D	E
	1"	65	26,1	22,6	25	
	1,5"	85	27,8	34,8	38	
	2"	110	33,8	47,8	51	
	2,5"	135	30	60,3	63,5	
	3"	155	45	72,8	76	
	4"	195	40	97,6	101,6	

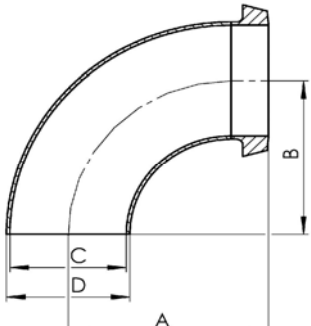
NW	A	B	C	D	E	Bend SS 180 DIN 11852 Lasbocht 180 DIN 11852
10	52	26	9	12		
15	70	35	15	18		
20	80	40	19	22		
25	100	50	25	28		
32	110	55	31	34		
40	120	60	37	40		
50	140	70	49	52		
65	160	80	66	70		
80	180	90	81	85		
100	200	100	100	104		
125	375	187,5	125	129		

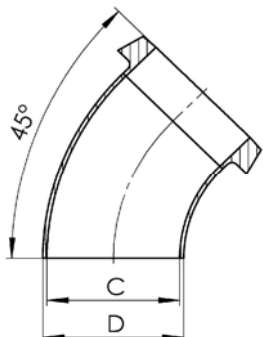
NW	A	B	C	D	E	Bend 90 32676 DIN Bocht 90 32676 DIN
10	44		10			
15	53		16			
20	58		20			
25	63		26			
32	68		32			
40	73		38			
50	83		50			
65	93		66			
80	103		81			
100	113		100			

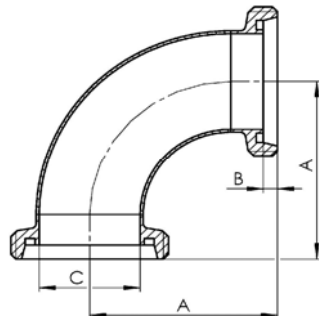
NW	A	B	C	D	E	Bend 90 32676 Inch Bocht 90 32676 Duims
1"	50,8		22,2			
1,5"	69,9		34,9			
2"	88,9		47,6			
2,5"	108		60,3			
3"	127		73			
4"	168,2		97,6			

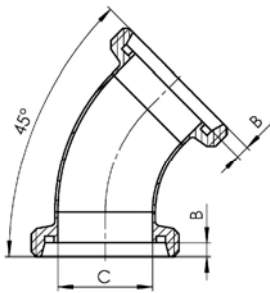
NW	A	B	C	D	E	Bend 90 DIN 11851 weld/male Bocht 90 DIN 11851 las/draad
10	43	26	10	13		
15	52	35	16	19		
20	59	40	20	23		
25	72	50	26	29		
32	77	55	32	35		
40	82	60	38	41		
50	93	70	50	53		
65	105	80	66	70		
80	115	90	81	85		
100	130	100	100	104		

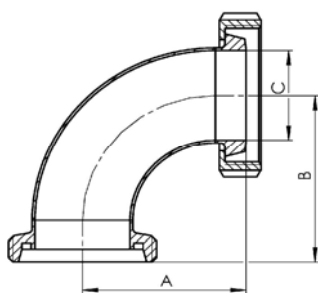
<i>Bend 45 DIN 11851 weld/male</i> <i>Bocht 45 DIN 11851 las/draad</i>	NW	A	B	C	D	E
	10		4	10	13	
	15		4	16	19	
	20		6	20	23	
	25		7	26	29	
	32		7	32	35	
	40		7	38	41	
	50		7	50	53	
	65		8	66	70	
	80		8	81	85	
	100		10	100	104	

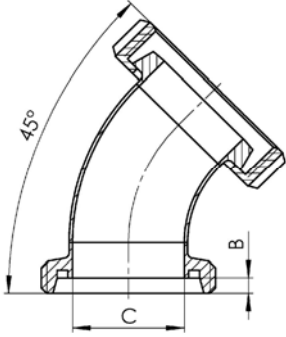
<i>Bend 90 DIN 11851 weld/liner</i> <i>Bocht 90 DIN 11851 las/punt</i>	NW	A	B	C	D	E
	10	39	26	10	13	
	15	48	35	16	19	
	20	53	40	20	23	
	25	65	50	26	29	
	32	70	55	32	35	
	40	75	60	38	41	
	50	86	70	50	53	
	65	97	80	66	70	
	80	107	90	81	85	
	100	120	100	100	104	

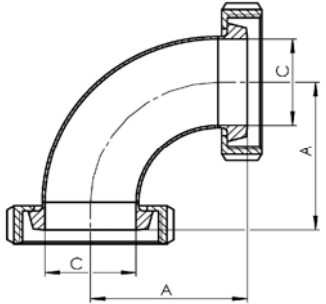
<i>Bend 45 DIN 11851 weld/liner</i> <i>Bocht 45 DIN 11851 las/punt</i>	NW	A	B	C	D	E
	10			10	13	
	15			16	19	
	20			20	23	
	25			26	29	
	32			32	35	
	40			38	41	
	50			50	53	
	65			66	70	
	80			81	85	
	100			100	104	

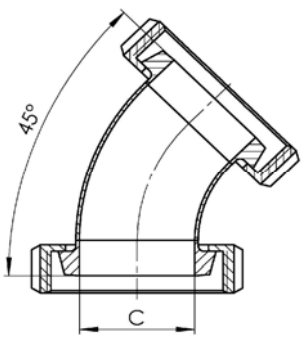
<i>Bend 90 DIN 11851 male/male</i> <i>Bocht 90 DIN 11851 draad/draad</i>	NW	A	B	C	D	E
	10	43	4	9		
	15	52	4	15		
	20	59	6	19		
	25	72	7	25		
	32	77	7	31		
	40	82	7	37		
	50	93	7	49		
	65	105	8	66		
	80	115	8	81		
	100	130	10	100		

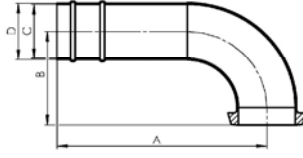
NW	A	B	C	D	E	Bend 45 DIN 11851 male/male Bocht 45 DIN 11851 draad/draad
10		4	9			
15		4	15			
20		6	19			
25		7	25			
32		7	31			
40		7	37			
50		7	49			
65		8	66			
80		8	81			
100		10	100			

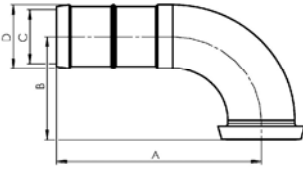
NW	A	B	C	D	E	Bend 90 DIN 11851 male/liner Bocht 90 DIN 11851 draad/punt
10	39	43	9			
15	48	52	15			
20	53	59	19			
25	65	72	25			
32	70	77	31			
40	75	82	37			
50	86	93	49			
65	97	105	66			
80	107	115	81			
100	120	130	100			

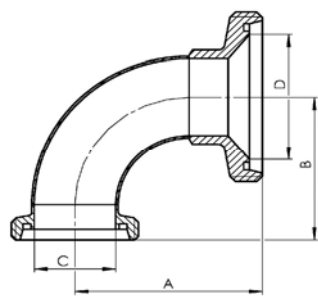
NW	A	B	C	D	E	Bend 45 DIN 11851 male/liner Bocht 45 DIN 11851 draad/punt
10		4	9			
15		4	15			
20		6	19			
25		7	25			
32		7	31			
40		7	37			
50		7	49			
65		8	66			
80		8	81			
100		10	100			

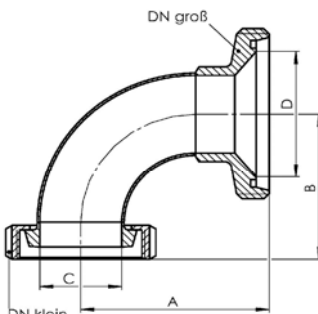
NW	A	B	C	D	E	Bend 90 DIN 11851 liner/liner Bocht 90 DIN 11851 punt/punt
10	39		10			
15	48		16			
20	53		20			
25	65		26			
32	70		32			
40	75		38			
50	86		50			
65	97		66			
80	107		81			
100	120		100			

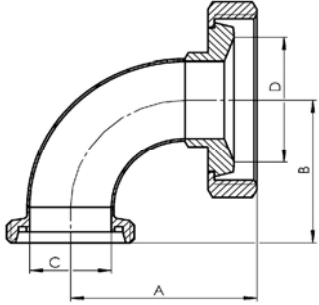
<i>Bend 45 DIN 11851 liner/liner</i> <i>Bocht 45 DIN 11851 punt/punt</i>	NW	A	B	C	D	E
	10			10		
	15			16		
	20			20		
	25			26		
	32			32		
	40			38		
	50			50		
	65			66		
	80			81		
	100			100		

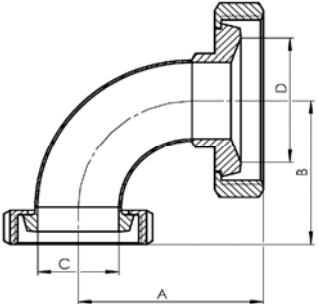
<i>Bend 90 DIN 11851 with nozzle</i> <i>Bocht 90 DIN 11851 met buistule</i>	NW	A	B	C	D	E
	25	125	65	26	28	
	32	140	70	32	34	
	40	160	75	38	40	
	50	185	86	50	52	
	65	205	97	66	70	

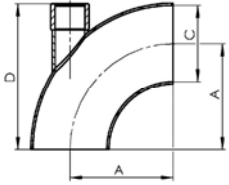
<i>Bend 90 DIN 11851 with beer nozzle</i> <i>Bocht 90 DIN 11851 met biertule</i>	NW	A	B	C	D	E
	25	108	65	26	32	
	32	120	70	32	40	
	40	139	75	38	48	
	50	162	86	50	58	
	65	188	97	66	76	
	80	213	107	81	90	
	100	236	120	100	110	

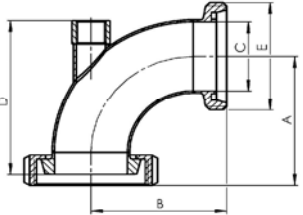
NW	A	B	C	D	E	Reducing bend 90 DIN 11851 male/male Verloop bocht 90 DIN 11851 draad/draad
25/10	55	43	10	26		
25/15	64	52	16	26		
25/20	67	59	20	26		
32/10	55	43	10	32		
32/15	64	52	16	32		
32/20	69	59	20	32		
32/25	81	72	26	32		
40/15	55	52	16	38		
40/20	69	59	20	38		
40/25	78	72	26	38		
40/32	87	77	32	38		
50/20	69	59	20	50		
50/25	76	72	26	50		
50/32	84	77	32	50		
50/40	93	82	38	50		
65/25	84	72	26	66		
65/32	94	77	32	66		
65/40	99	82	35	66		
65/50	108	93	50	66		
80/32	96	77	38	81		
80/40	103	82	38	81		
80/50	115	93	50	81		
80/65	123	105	66	81		
100/50	119	93	50	100		
100/65	129	105	66	100		
100/80	141	115	81	100		

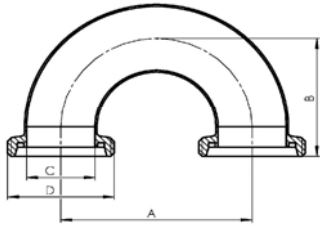
NW	A	B	C	D	E	Reducing bend 90 DIN 11851 liner/male Verloop bocht 90 DIN 11851 punt/draad
25/10	55	39	10	26		
25/15	64	48	16	26		
25/20	67	53	20	26		
32/10	55	39	10	32		
32/15	64	48	16	32		
32/20	69	53	20	32		
32/25	81	65	26	32		
40/15	55	48	16	38		
40/20	69	53	20	38		
40/25	78	65	26	38		
40/32	87	70	32	38		
50/20	69	53	20	50		
50/25	76	65	26	50		
50/32	84	70	32	50		
50/40	93	75	38	50		
65/25	84	65	26	66		
65/32	94	70	32	66		
65/40	99	75	35	66		
65/50	108	86	50	66		
80/32	96	70	38	81		
80/40	103	75	38	81		
80/50	115	86	50	81		
80/65	123	97	66	81		
100/50	119	86	50	100		
100/65	129	97	66	100		
100/80	141	107	81	100		

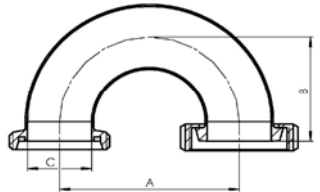
Reducing bend 90 DIN 11851 male/liner Verloop bocht 90 DIN 11851 draad/punt	NW	A	B	C	D	E
	25/10	48	43	10	26	
25/15	57	52	16	26		
25/20	60	59	20	26		
32/10	51	43	10	32		
32/15	58	52	16	32		
32/20	63	59	20	32		
32/25	74	72	26	32		
40/15	60	52	16	38		
40/20	65	59	20	38		
40/25	74	72	26	38		
40/32	79	77	32	38		
50/25	78	72	26	50		
50/32	78	77	32	50		
50/40	86	82	38	50		
65/25	82	72	26	66		
65/32	87	77	32	66		
65/40	86	82	35	66		
65/50	100	93	50	66		
80/32	90	77	38	81		
80/40	96	82	38	81		
80/50	100	93	50	81		
80/65	115	105	66	81		
100/50	110	93	50	100		
100/65	120	105	66	100		
100/80	132	115	81	100		

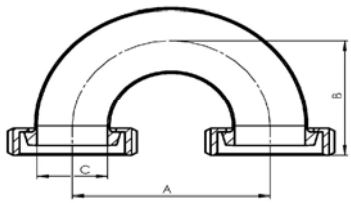
reducing bend 90 DIN 11851 liner/liner Verloop bocht 90 DIN 11851 punt/punt	NW	A	B	C	D	E
	25/10	48	39	10	26	
25/15	57	48	16	26		
25/20	60	53	20	26		
32/10	51	39	10	32		
32/15	58	48	16	32		
32/20	63	53	20	32		
32/25	74	65	26	32		
40/15	60	48	16	38		
40/20	65	53	20	38		
40/25	74	65	26	38		
40/32	79	70	32	38		
50/25	78	65	26	50		
50/32	78	70	32	50		
50/40	86	75	38	50		
65/25	82	65	26	66		
65/32	87	70	32	66		
65/40	86	75	35	66		
65/50	100	86	50	66		
80/32	90	70	38	81		
80/40	96	75	38	81		
80/50	100	86	50	81		
80/65	115	97	66	81		
100/50	110	86	50	100		
100/65	120	97	66	100		
100/80	132	107	81	100		

NW	A	B	C	D	E	Bend 90 thermo DIN 11851 Thermometer bocht 90 DIN 11851
25	50		26	72		
32	55		32	78		
40	60		38	84		
50	70		50	96		
65	80		66	113		
80	90		81	127		
100	100		100	144		
Connection R 1/2" BSP						

NW	A	B	C	D	E	Bend 90 thermo DIN 11851 male/liner Thermom. Bocht90 DIN 11851 draad/punt
25	65	72	26	87	Rd 52x1/6"	
32	70	77	32	93	Rd 58x1/6"	
40	75	82	38	99	Rd 65x1/6"	
50	86	93	50	112	Rd 78x1/6"	
65	97	105	66	130	Rd 95x1/6"	
80	107	115	81	144	Rd110x1/4"	
100	120	130	100	164	Rd130x1/4"	
Connection R 1/2" BSP						

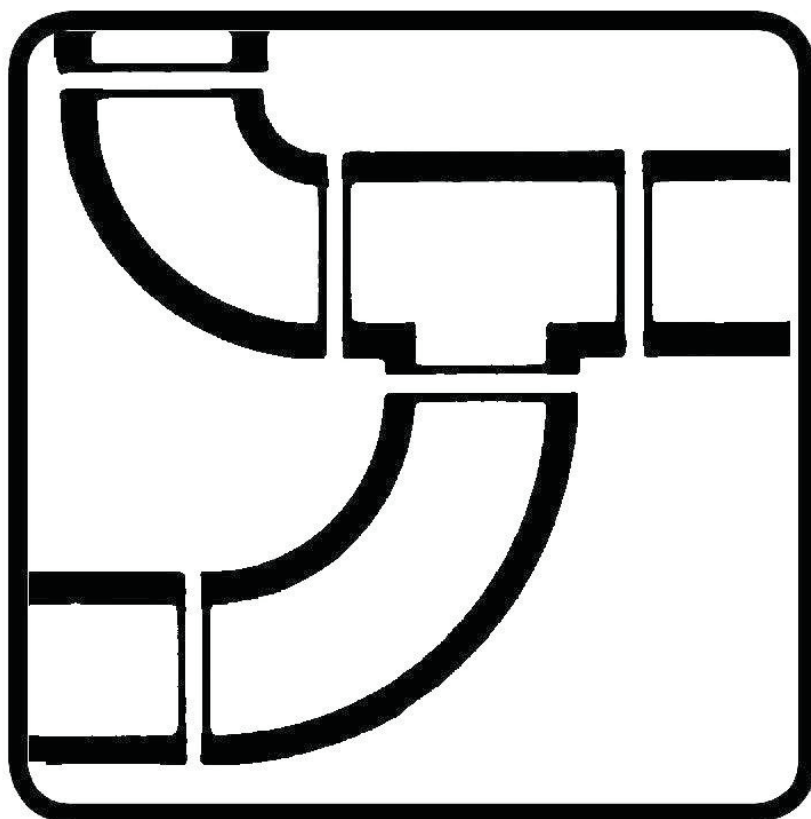
<i>Bend 180 DIN 11851 male/male</i> <i>Bocht 180 DIN 11851 draad/draad</i>	NW	A	B	C	D	E
	10	52	43	10		
	15	70	52	16		
	20	80	59	20		
	25	100	72	26		
	32	110	77	32		
	40	120	82	38		
	50	140	93	50		
	65	160	105	66		
	80	180	115	81		
	100	200	130	100		

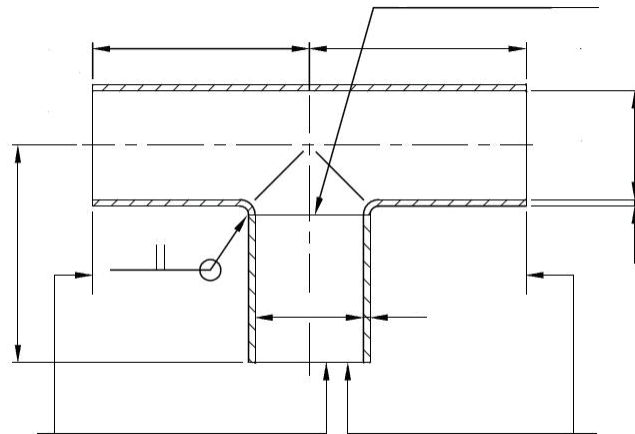
<i>Bend 180 DIN 11851 male/liner</i> <i>Bocht 180 DIN 11851 draad/punt</i>	NW	A	B	C	D	E
	10	52	39	10		
	15	70	48	16		
	20	80	53	20		
	25	100	65	26		
	32	110	70	32		
	40	120	75	38		
	50	140	86	50		
	65	160	97	66		
	80	180	107	81		
	100	200	120	100		

<i>Bend 180 DIN 11851 liner/liner</i> <i>Bocht 180 DIN 11851 punt/punt</i>	NW	A	B	C	D	E
	10	52	39	10		
	15	70	48	16		
	20	80	53	20		
	25	100	65	26		
	32	110	70	32		
	40	120	75	38		
	50	140	86	50		
	65	160	97	66		
	80	180	107	81		
	100	200	120	100		

3.2 - *Pipefittings* *Buisfittingen*

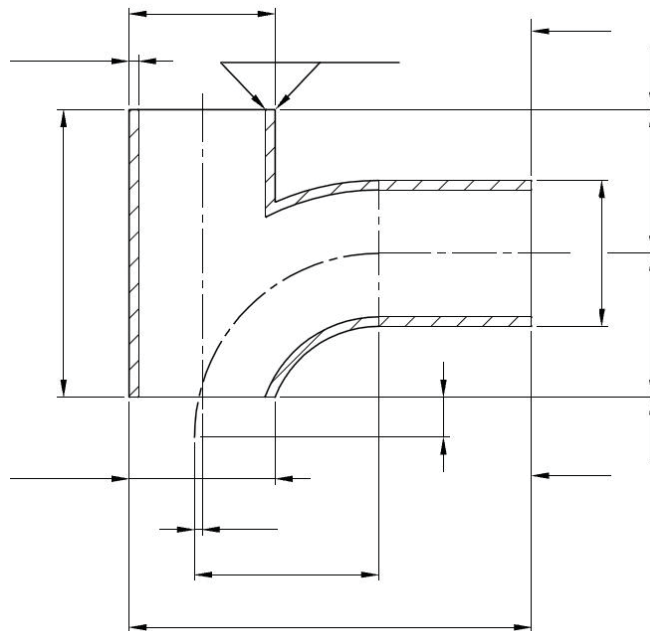
Tees
T-stukken
Tee bends
Stroom T-stukken
Broekstukken

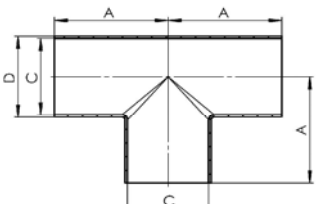


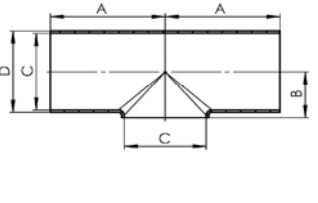


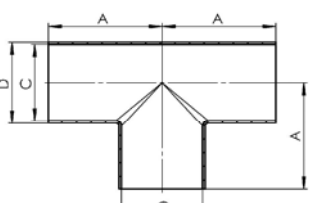
In addition to our catalogue we can manufacture on request tees with:

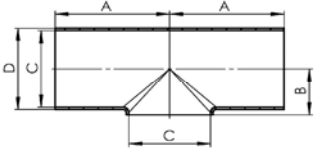
- Special lengths.
- Different connection sizes (DIN-Inch) from our catalogue.

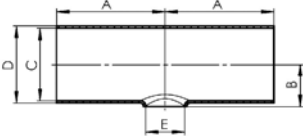


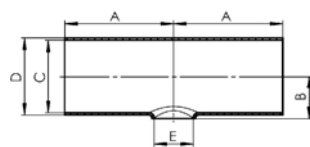
NW	A	B	C	D	E	Tee DIN 11852 equal T-stuk DIN 11852 lang
25	50		25	28		
25	50		26	29		
32	55		31	34		
32	55		32	35		
40	60		37	40		
40	60		38	41		
50	70		49	52		
50	70		50	53		
65	80		66	70		
80	90		81	85		
100	100		100	104		
125	187,5		125	129		
150	225		150	154		
200	300		200	204		

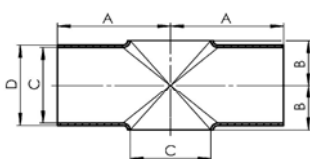
NW	A	B	C	D	E	Tee DIN 11852 short T-stuk DIN 11852 kort
25	50	16	25	28		
25	50	16	26	29		
32	55	19	31	34		
32	55	19,5	32	35		
40	60	22	37	40		
40	60	23	38	41		
50	70	29	49	52		
50	70	30	50	53		
65	80	40	66	70		
80	90	47,5	81	85		
100	100	58,5	100	104		
125	187,5	74	125	129		
150	225	90	150	154		
200	300	115	200	204		

NW	A	B	C	D	E	Tee SMS equal T-stuk SMS lang
1"	55		22,6	25		
1,5"	70		34,8	38		
2"	82		47,8	51		
2,5"	105		60,3	63,5		
3"	110		72,8	76		
4"	150		97,6	101,6		

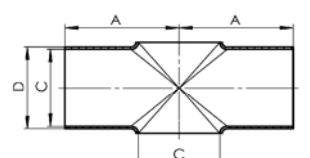
<i>Tee SMS short</i> <i>T-stuk SMS kort</i>	NW	A	B	C	D	E
	1"	55	14	22,6	25	
	1,5"	70	22	34,8	38	
	2"	82	29	47,8	51	
	2,5"	105	35	60,3	63,5	
	3"	110	41	72,8	76	
	4"	150	55	97,6	101,6	

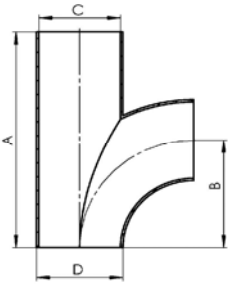
<i>Reducing Tee DIN 11852 short</i> <i>Verloop T-stuk DIN 11852 kort</i>	NW	A	B	C	D	E
	25-20	50	16,5	25	28	22
	25-20	50	17	26	29	23
	32-25	55	19	31	34	28
	32-25	55	19,5	32	35	29
	40-25	60	22	38	40	28
	40-25	60	22,5	37	41	29
	40-32	60	22	38	40	34
	40-32	60	22,5	49	41	35
	50-25	70	29	50	52	28
	50-25	70	29,5	49	53	29
	50-40	70	29	50	52	40
	50-40	70	29,5	66	53	41
	65-25	80	39	66	70	28
	65-25	80	39	66	70	29
	65-40	80	39	66	70	40
	65-40	80	39	66	70	41
	65-50	80	39	66	70	52
	65-50	80	39,0	66	70	53
	80-25	90	46,5	81	85	28
	80-25	90	46,5	81	85	29
	80-40	90	46,5	81	85	40
	80-40	90	46,5	81	85	41
	80-50	90	46,5	81	85	52
	80-50	90	46,5	81	85	53
	80-65	90	46,5	81	85	70
	100-40	100	56	100	104	40
	100-40	100	56	100	104	41
	100-50	100	56	100	104	52
	100-50	100	56	100	104	53
	100-65	100	56	100	104	70
	100-80	100	56	100	104	85
	125-50	187,5	68,5	125	129	52
	125-50	187,5	68,5	125	129	53
	125-65	187,5	68,5	125	129	70
	125-80	187,5	68,5	125	129	85
	125-100	187,5	68,5	125	129	104
	150-50	225	81	150	154	52
	150-50	225	81	150	154	53
	150-65	225	81	150	154	70
	150-80	225	81	150	154	85
	150-100	225	81	150	154	104
	150-125	225	81	150	154	129
	150-125	225	81	150	154	129

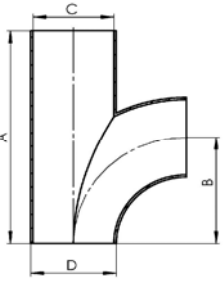
NW	A	B	C	D	E	Reducing Tee SMS short Verloop T-stuk SMS kort
1,5-1"	70	21	34,8	38		
2-1"	72	29	47,8	51		
2-1,5"	72	29	47,8	51		
2,5-1"	105	34,5	60,3	63,5		
2,5-1,5"	105	35	60,3	63,5		
2,5-2"	105	36	60,3	63,5		
3-1,5"	110	41	72,8	76		
3-2"	110	42	72,8	76		
3-2,5"	100	43	72,8	76		
4-2"	150	57	97,6	101,6		
4-2,5"	150	58	97,6	101,6		
4-3"	150	58	97,6	101,6		

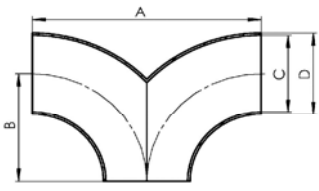
NW	A	B	C	D	E	Cross DIN 11852 short Kruisstuk DIN 11852 kort
25	50	16	25	28		
25	50	16	26	29		
32	55	19	31	34		
32	55	19,5	32	35		
40	60	22	37	40		
40	60	23	38	41		
50	70	29	49	52		
50	70	30	50	53		
65	80	40	66	70		
80	90	47,5	81	85		
100	100	58,5	100	104		
125	187,5	74	125	129		
150	225	90	150	154		
200	300	115	200	204		

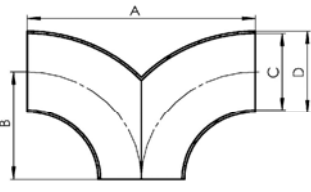
Long execution on demand

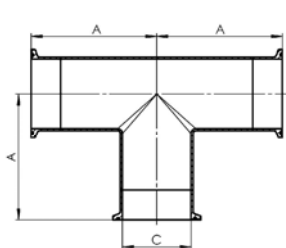
NW	A	B	C	D	E	Cross SMS short Kruisstuk SMS kort
						
1"	60		22,6	25		
1,5"	80		34,8	38		
2"	90		47,8	51		
2,5"	100		60,3	63,5		
3"	120		72,8	76		
4"	150		97,6	101,6		
Long execution on demand						

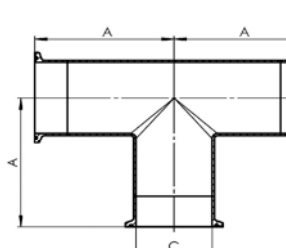
<i>Tee Bend DIN 11852</i> <i>Stroom T-stuk DIN 11852</i>	NW	A	B	C	D	E
	25	100	50	25	28	
	25	100	50	26	29	
	32	110	55	31	34	
	32	110	55	32	35	
	40	120	60	37	40	
	40	120	60	38	41	
	50	140	70	49	52	
	50	140	70	50	53	
	65	160	80	66	70	
	80	180	90	81	85	
	100	200	100	100	104	

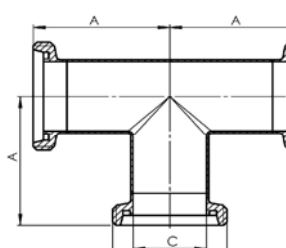
<i>Tee Bend SMS</i> <i>Stroom T-stuk SMS</i>	NW	A	B	C	D	E
	1"	55	27,5	22,2	25,4	
	1,5"	104	52	34,9	38,1	
	2"	150	75	47,6	50,8	
	2,5"	180	90	60,3	63,5	
	3"	190	95	73	76,1	
	4"	266	133	97,6	101,6	

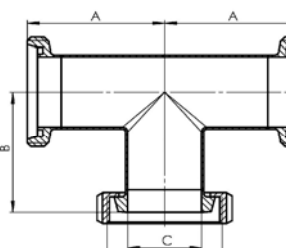
<i>Double Tee Bend DIN 11852</i> <i>Broekstuk DIN 11852</i>	NW	A	B	C	D	E
	25	100	50	25	28	
	25	100	50	26	29	
	32	110	55	31	34	
	32	110	55	32	35	
	40	120	60	37	40	
	40	120	60	38	41	
	50	140	70	49	52	
	50	140	70	50	53	
	65	160	80	66	70	
	80	180	90	81	85	
	100	200	100	100	104	

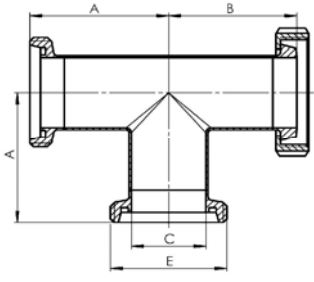
<i>Double Tee Bend SMS</i> <i>Broekstuk SMS</i>	NW	A	B	C	D	E
	1"	55	27,5	22,2	25,4	
	1,5"	104	52	34,9	38,1	
	2"	150	75	47,6	50,8	
	2,5"	180	90	60,3	63,5	
	3"	190	95	73	76,1	
	4"	266	133	97,6	101,6	

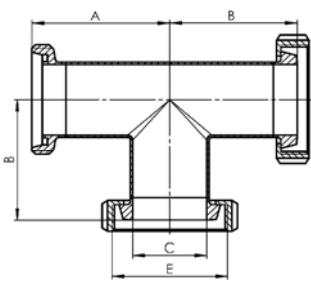
NW	A	B	C	D	E	Tee 32676 DIN equal T-stuk 32676 DIN lang
10	44		10			
15	53		16			
20	58		20			
25	71,5		26			
40	81,5		38			
50	91,5		50			
65	108		66			
80	118		81			
100	128		100			

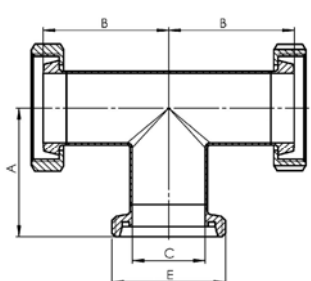
NW	A	B	C	D	E	Tee 32676 SMS long T-stuk 32676 SMS lang
1"	72,5		22,9			
1,5"	81,5		35,1			
2"	89		47,8			
2,5"	110,5		60,5			
3"	113		72,1			
4"	161,5		97,6			

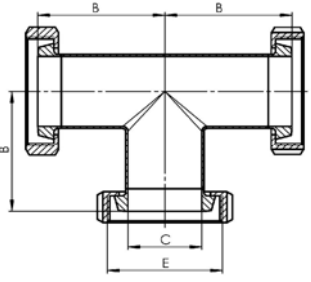
NW	A	B	C	D	E	Tee DIN 11851 male/male/male T-stuk DIN 11851 draad/draad/draad
10	43		10		Rd 28x1/8"	
15	52		16		Rd 34x1/8"	
20	59		20		Rd 44x1/6"	
25	72		26		Rd 52x1/6"	
32	77		32		Rd 58x1/6"	
40	82		38		Rd 65x1/6"	
50	93		50		Rd 78x1/6"	
65	105		66		Rd 95x1/6"	
80	115		81		Rd110x1/4"	
100	130		100		Rd130x1/4"	

NW	A	B	C	D	E	Tee DIN 11851 male/liner/male T-stuk DIN 11851 draad/punt/draad
10	43	39	10		Rd 28x1/8"	
15	52	48	16		Rd 34x1/8"	
20	59	53	20		Rd 44x1/6"	
25	72	65	26		Rd 52x1/6"	
32	77	70	32		Rd 58x1/6"	
40	82	75	38		Rd 65x1/6"	
50	93	86	50		Rd 78x1/6"	
65	105	98	66		Rd 95x1/6"	
80	115	107	81		Rd110x1/4"	
100	130	120	100		Rd130x1/4"	

<i>Tee DIN 11851 male/male/liner</i> <i>T-stuk DIN 11851 draad/draad/punt</i>	NW	A	B	C	D	E
	10	43	39	10		Rd 28x1/8"
	15	52	48	16		Rd 34x1/8"
	20	59	53	20		Rd 44x1/6"
	25	72	65	26		Rd 52x1/6"
	32	77	70	32		Rd 58x1/6"
	40	82	75	38		Rd 65x1/6"
	50	93	86	50		Rd 78x1/6"
	65	105	98	66		Rd 95x1/6"
	80	115	107	81		Rd110x1/4"
	100	130	120	100		Rd130x1/4"

<i>Tee DIN 11851 male/liner/liner</i> <i>T-stuk DIN 11851 draad/punt/punt</i>	NW	A	B	C	D	E
	10	43	39	10		Rd 28x1/8"
	15	52	48	16		Rd 34x1/8"
	20	59	53	20		Rd 44x1/6"
	25	72	65	26		Rd 52x1/6"
	32	77	70	32		Rd 58x1/6"
	40	82	75	38		Rd 65x1/6"
	50	93	86	50		Rd 78x1/6"
	65	105	98	66		Rd 95x1/6"
	80	115	107	81		Rd110x1/4"
	100	130	120	100		Rd130x1/4"

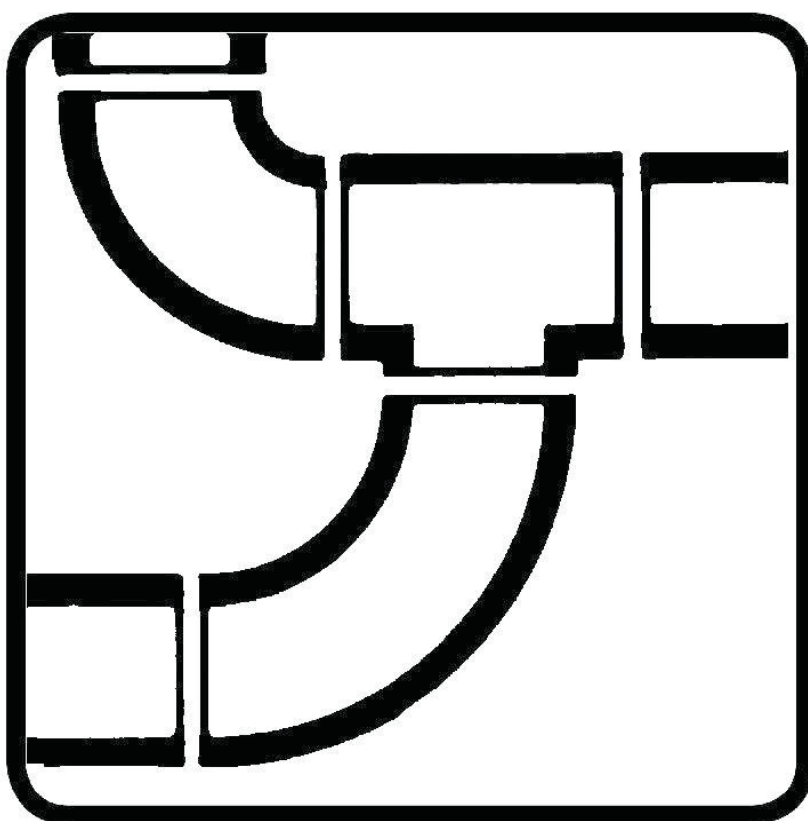
<i>Tee DIN 11851 liner/male/liner</i> <i>T-stuk DIN 11851 punt/draad/punt</i>	NW	A	B	C	D	E
	10	43	39	10		Rd 28x1/8"
	15	52	48	16		Rd 34x1/8"
	20	59	53	20		Rd 44x1/6"
	25	72	65	26		Rd 52x1/6"
	32	77	70	32		Rd 58x1/6"
	40	82	75	38		Rd 65x1/6"
	50	93	86	50		Rd 78x1/6"
	65	105	98	66		Rd 95x1/6"
	80	115	107	81		Rd110x1/4"
	100	130	120	100		Rd130x1/4"

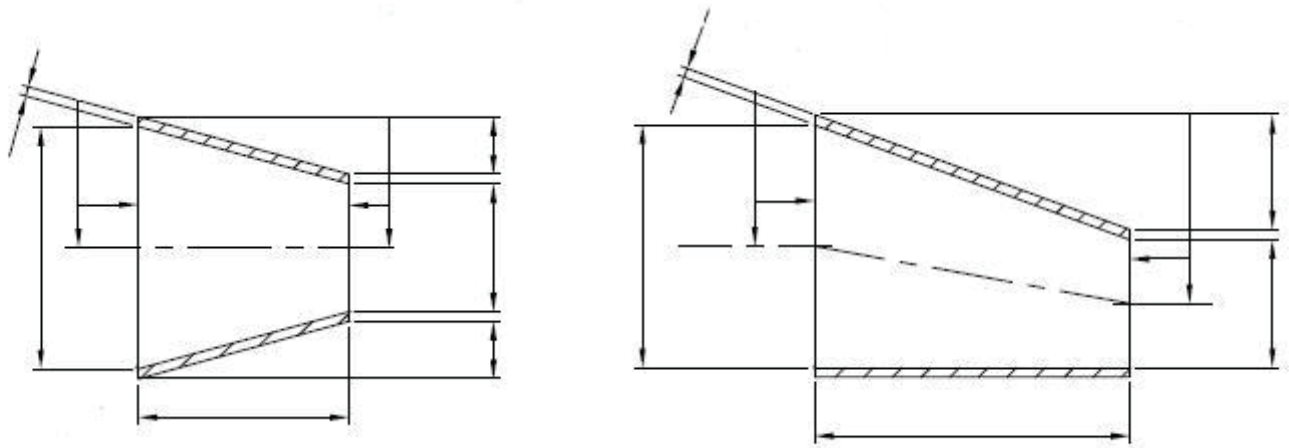
<i>Tee DIN 11851 liner/liner/liner</i> <i>T-stuk DIN 11851 punt/punt/punt</i>	NW	A	B	C	D	E
	10		39	10		Rd 28x1/8"
	15		48	16		Rd 34x1/8"
	20		53	20		Rd 44x1/6"
	25		65	26		Rd 52x1/6"
	32		70	32		Rd 58x1/6"
	40		75	38		Rd 65x1/6"
	50		86	50		Rd 78x1/6"
	65		98	66		Rd 95x1/6"
	80		107	81		Rd110x1/4"
	100		120	100		Rd130x1/4"

3.3 - *Pipefittings* *Buisfittingen*

Reducers
Verlopen

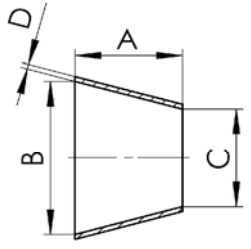
3.3

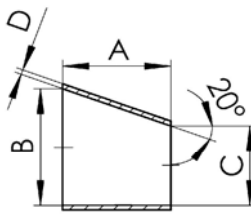


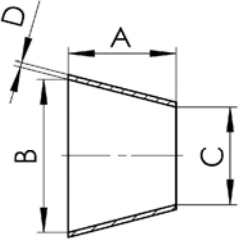


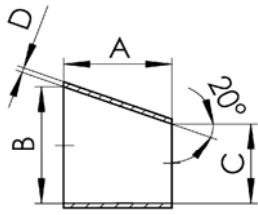
In addition to our catalogue we can manufacture on request reducers with:

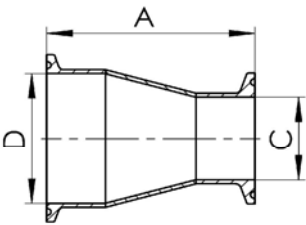
- Special lengths
- Different connections (DIN11853/11864, etc.) from our catalogue
- Different connection sizes (DIN-Inch) from our catalogue

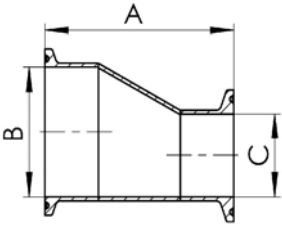
NW	A	B	C	D	E	Reducer DIN 11852 Conc. Lasverloop DIN 11852 Conc.
15-10	11	16	10	1,5		
20-10	18	20	10	1,5		
20-15	7	20	16	1,5		
25-10	30	26	10	1,5		
25-15	22	26	16	1,5		
25-20	11	26	20	1,5		
32-15	41	32	16	1,5		
32-20	33	32	20	1,5		
32-25	11	32	26	1,5		
40-20	33	38	20	1,5		
40-25	22	38	26	1,5		
40-32	11	38	32	1,5		
50-25	44	50	26	1,5		
50-32	33	50	32	1,5		
50-40	22	50	38	1,5		
65-32	63,5	66	32	2,0		
65-40	51	66	38	2,0		
65-50	29	66	50	2,0		
80-40	80,2	81	38	2,0		
80-50	56	81	50	2,0		
80-65	27	81	66	2,0		
100-50	93	100	50	2,0		
100-65	61	100	66	2,0		
100-80	34	100	81	2,0		
125-65	110	125	66	2,0		
125-80	79	125	81	2,0		
125-100	45	125	100	2,0		
150-80	128,7	150	81	2,0		
150-100	90	150	100	2,0		
150-125	45	150	125	2,0		

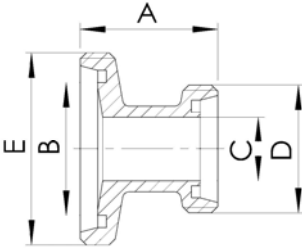
NW	A	B	C	D	E	Reducer DIN 11852 Excentr. Lasverloop DIN 11852 Excentr.
15-10	16,5	16	10	1,5		
20-10	27,5	20	10	1,5		
20-15	11	20	16	1,5		
25-10	44	26	10	1,5		
25-15	27,5	26	16	1,5		
25-20	16,5	26	20	1,5		
32-15	44	32	16	1,5		
32-20	33	32	20	1,5		
32-25	16,5	32	26	1,5		
40-20	49,5	38	20	1,5		
40-25	33	38	26	1,5		
40-32	16,5	38	32	1,5		
50-25	66	50	26	1,5		
50-32	49,5	50	32	1,5		
50-40	33	50	38	1,5		
65-40	77	66	38	2,0		
65-50	44	66	50	2,0		
80-50	85,2	81	50	2,0		
80-65	41,2	81	66	2,0		
100-50	137,4	100	50	2,0		
100-65	93,4	100	66	2,0		
100-80	52,5	100	81	2,0		
125-80	120,5	125	81	2,0		
125-100	68,5	125	100	2,0		
150-100	138,5	150	100	2,0		
150-125	68,5	150	125	2,0		

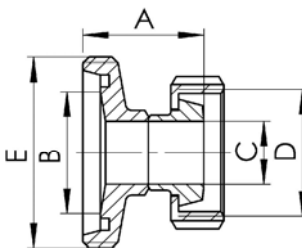
Reducer SMS Conc. Lasverloop SMS Con.	NW	A	B	C	D	E
	1,5-1"	39	34,8	22,1		
	2-1"	57	47,5	22,1		
	2-1,5"	39	47,5	34,8		
	2,5-1,5"	57	60,2	34,8		
	2,5-2"	39	60,2	47,5		
	3-1"	92	72,9	22,1		
	3-1,5"	74	72,9	34,8		
	3-2"	57	72,9	47,5		
	3-2,5"	39	72,9	60,2		
	4-2"	95	97,4	47,5		
	4-2,5"	78	97,4	60,2		
	4-3"	60	97,4	72,9		

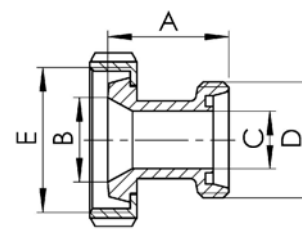
Reducer SMS Excentr. Lasverloop SMS Excentr.	NW	A	B	C	D	E
	1,5-1"	46	34,8	22,1		
	2-1"	68	47,5	22,1		
	2-1,5"	47	47,5	34,8		
	2,5-1,5"	70	60,2	34,8		
	2,5-2"	44	60,2	47,5		
	3-1"	117	72,9	22,1		
	3-1,5"	92	72,9	34,8		
	3-2"	68	72,9	47,5		
	3-2,5"	47	72,9	60,2		
	4-2"	117	97,4	47,5		
	4-2,5"	94	97,4	60,2		
	4-3"	74	97,4	72,9		

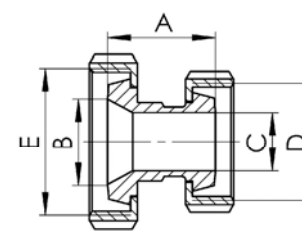
Reducer DIN CC Conc. Verloop DIN triClamp Conc.	NW	A	B	C	D	E
	40-25	65	37	25		
	40-32	43	37	31		
	50-25	76	49	31		
	50-40	40	49	37		
	65-40	101	66	37		
	65-50	46	66	49		
	80-50	107	81	49		
	80-65	53	81	66		
	100-65	119	100	66		
	100-80	53	100	81		

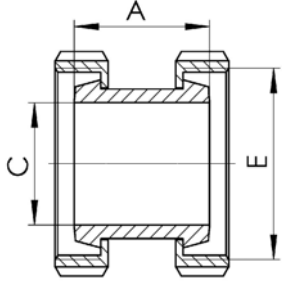
Reducer DIN CC Excentr. Verloop DIN TriClamp Excentr.	NW	A	B	C	D	E
	40-25	75	37	25		
	50-25	75	49	37		
	50-40	126	66	37		
	65-40	93	66	49		
	65-50	134	81	49		
	80-65	96	81	66		
	100-65	148	100	66		
	100-80	108	100	81		

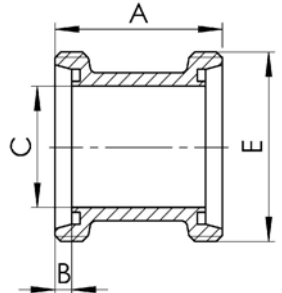
NW	A	B	C	D	E	Reducer DIN 11851 male ends Conc. Verloop DIN 11851 draad/draad
32-25	62	32	26	Rd 52x1/6"	Rd 58x1/6"	
40-25	73	38	26	Rd 52x1/6"	Rd 65x1/6"	
40-32	65	38	32	Rd 58x1/6"	Rd 65x1/6"	
50-32	88	50	32	Rd 58x1/6"	Rd 78x1/6"	
50-40	78	50	38	Rd 65x1/6"	Rd 78x1/6"	
65-40	109	66	38	Rd 65x1/6"	Rd 95x1/6"	
65-50	89	66	50	Rd 78x1/6"	Rd 95x1/6"	
80-50	116	81	50	Rd 78x1/6"	Rd110x1/4"	
80-65	92	81	66	Rd 95x1/6"	Rd110x1/4"	
100-65	131	100	66	Rd 95x1/6"	Rd130x1/4"	
100-80	109	100	81	Rd110x1/4"	Rd130x1/4"	

NW	A	B	C	D	E	Reducer DIN 11851 male/liner Conc. Verloop DIN 11851 draad/punt
32-25	55	32	26	Rd 52x1/6"	Rd 58x1/6"	
40-25	66	38	26	Rd 52x1/6"	Rd 65x1/6"	
40-32	58	38	32	Rd 58x1/6"	Rd 65x1/6"	
50-32	81	50	32	Rd 58x1/6"	Rd 78x1/6"	
50-40	71	50	38	Rd 65x1/6"	Rd 78x1/6"	
65-40	102	66	38	Rd 65x1/6"	Rd 95x1/6"	
65-50	82	66	50	Rd 78x1/6"	Rd 95x1/6"	
80-50	109	81	50	Rd 78x1/6"	Rd110x1/4"	
80-65	84	81	66	Rd 95x1/6"	Rd110x1/4"	
100-65	123	100	66	Rd 95x1/6"	Rd130x1/4"	
100-80	101	100	81	Rd110x1/4"	Rd130x1/4"	

NW	A	B	C	D	E	Reducer DIN 11851 liner/male Conc. Verloop DIN 11851 punt/draad
32-25	55	32	26	Rd 52x1/6"	Rd 58x1/6"	
40-25	66	38	26	Rd 52x1/6"	Rd 65x1/6"	
40-32	58	38	32	Rd 58x1/6"	Rd 65x1/6"	
50-32	81	50	32	Rd 58x1/6"	Rd 78x1/6"	
50-40	71	50	38	Rd 65x1/6"	Rd 78x1/6"	
65-40	101	66	38	Rd 65x1/6"	Rd 95x1/6"	
65-50	81	66	50	Rd 78x1/6"	Rd 95x1/6"	
80-50	108	81	50	Rd 78x1/6"	Rd110x1/4"	
80-65	84	81	66	Rd 95x1/6"	Rd110x1/4"	
100-65	121	100	66	Rd 95x1/6"	Rd130x1/4"	
100-80	99	100	81	Rd110x1/4"	Rd130x1/4"	

NW	A	B	C	D	E	Reducer DIN 11851 liner/liner Conc. Verloop DIN 11851 punt/punt
32-25	48	32	26	Rd 52x1/6"	Rd 58x1/6"	
40-25	59	38	26	Rd 52x1/6"	Rd 65x1/6"	
40-32	51	38	32	Rd 58x1/6"	Rd 65x1/6"	
50-32	74	50	32	Rd 58x1/6"	Rd 78x1/6"	
50-40	64	50	38	Rd 65x1/6"	Rd 78x1/6"	
65-40	94	66	38	Rd 65x1/6"	Rd 95x1/6"	
65-50	74	66	50	Rd 78x1/6"	Rd 95x1/6"	
80-50	101	81	50	Rd 78x1/6"	Rd110x1/4"	
80-65	76	81	66	Rd 95x1/6"	Rd110x1/4"	
100-65	113	100	66	Rd 95x1/6"	Rd130x1/4"	
100-80	91	100	81	Rd110x1/4"	Rd130x1/4"	

Connection DIN 11851 liner/liner Verbindstuk DIN 11851 punt/punt	NW	A	B	C	D	E
	10	34		10		Rd 28x1/8"
	15	34		16		Rd 34x1/8"
	20	36		20		Rd 44x1/6"
	25	44		26		Rd 52x1/6"
	32	50		32		Rd 58x1/6"
	40	52		38		Rd 65x1/6"
	50	56		50		Rd 78x1/6"
	65	64		66		Rd 95x1/6"
	80	74		81		Rd110x1/4"
	100	88		100		Rd130x1/4"

Connection DIN 11851 male/male Verbindstuk DIN 11851 draad/draad	NW	A	B	C	D	E
	10	42	4	10		Rd 28x1/8"
	15	42	4	16		Rd 34x1/8"
	20	48	6	20		Rd 44x1/6"
	25	58	7	26		Rd 52x1/6"
	32	64	7	32		Rd 58x1/6"
	40	66	7	38		Rd 65x1/6"
	50	70	7	50		Rd 78x1/6"
	65	80	8	66		Rd 95x1/6"
	80	90	8	81		Rd110x1/4"
	100	108	10	100		Rd130x1/4"

3.4 - *Pipefittings* *Buisfittingen*

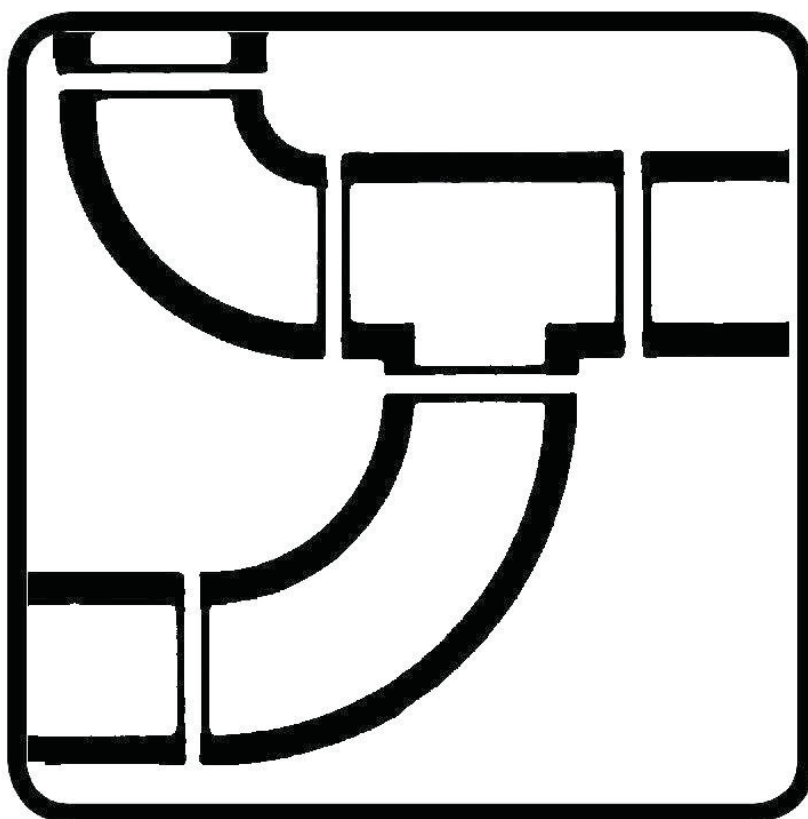
ISO & METRIC

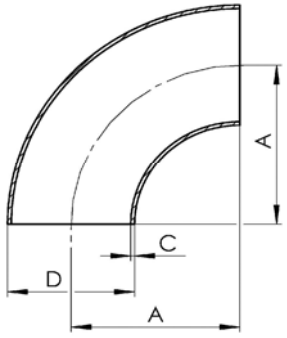
Bends/Bochten

Reducers/Verlopen

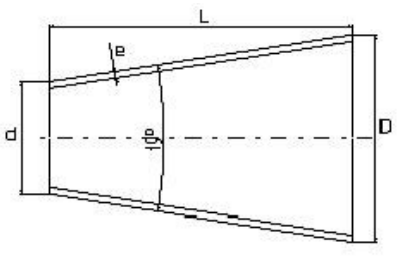
Tee short/T-stukken kort

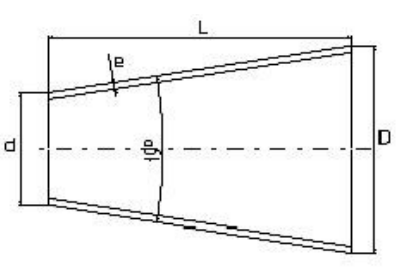
3.4



NW	A	B	C	D	E	Bend 90 ISO & metric Bocht 90 ISO & metrisch
1/4"	20		2,00	13,7		
	20		1,50	15,0		
3/8"	25		1,60	17,2		
	25		2,00			
	25		2,30			
	30		1,50	18,0		
	30		1,50	20,0		
	30		2,00			
1/2"	38		1,60	21,3		
	38		2,00			
	50		2,00			
	38		2,11			
	38		2,77			
	27,5		1,50	25,0		
	27,5		2,00			
3/4"	28,6		2,00	26,9		
	57,5		2,00			
	28,6		2,11			
	28,6		2,87			
	32,5		1,50	28,0		
	32,5		2,00			
	33,5		1,50	30,0		
	33,5		2,00			
1"	38		2,00	33,7		
	72,5		2,00			
	38		2,77			
	38		3,38			
1,25"	48		2,00	42,4		
	92,5		2,00			
	48		2,77			
	48		3,68			
	51		2,00	44,5		
1,5"	57		2,00	48,3		
	110		2,00			
	57		2,77			
	57		3,68			
	67,5		2,00	50,8		
	72,5		2,00	54,0		
	75		2,00	57,0		
2"	76		2,00	60,3		
	135		2,00			
	76		2,77			
	76		3,91			
	82,5		2,00	63,5		
	95		3,05	73,0		
	95		5,16			
2,5"	95		2,00	76,1		
	175		2,60			
	95		3,00			
	120		2,00	84,0		
	200		2,00			
3"	114		2,00	88,9		
	205		2,00			
	114		3,05			
	114		5,49			
3,5"	133		2,00	101,6		
	133		3,05			
	133		5,74			

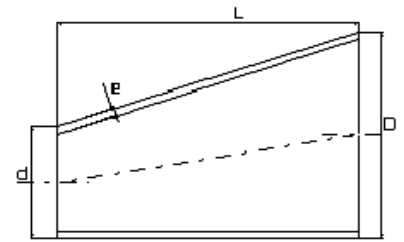
[illegible]

NW	L	d	D	Reducer Conc. ISO & Metric Lasverloop Conc. ISO & Metrisch
	11	13,7	17,2	 e = 2mm & 3mm
	23	13,7	21,3	
	12	17,2		
	40	13,7	26,9	
	29	17,2		
	17	21,3		
	60	13,7	33,7	
	50	17,2		
	37	21,3		
	20	26,9		
	86	13,7	42,4	
	76	17,2		
	63	21,3		
	46	26,9		
	26	33,7		
	60	24,0	44,0	
	75	29,0		
	30	34,0		
	93	17,2	48,3	
	81	21,3		
	64	26,9		
	44	33,7		
	18	42,4		
	90	24	54,0	
	75	29		
	60	34		
	30	44		
	117	21,3	60,3	
	100	26,9		
	80	33,7		
	54	42,4		
	36	48,3		
	105	34	69,0	
	75	44		
	45	54		
	148	26,9	76,1	
	127	33,7		
	101	42,4		
	83	48,3		
	47	60,3		
	120	44	84,0	
	90	54		
	60	64		
	45	69		
	30	74		
	166	33,7	88,9	
	139	42,4		
	122	48,3		
	86	60,3		
	38	76,1		
	150	54	104,0	
	120	65		
	105	69		
	90	74		
	60	84		
	262	26,9	114,3	
	242	33,7		
	216	42,4		
	198	48,3		
	162	60,3		

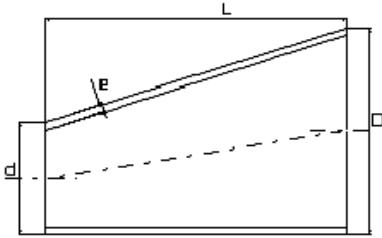
Reducer Conc. ISO & Metric Lasverloop Conc. ISO & Metrisch	NW	L	d	D
 e = 2mm & 3mm		115	76,1	114,3
		76	88,9	
		225	54	129,0
		180	69	
		135	84	
		75	104	
		238	60,3	139,7
		191	76,1	
		152	88,9	
		76	114,3	
		300	54	154,0
		255	69	
		210	84	
		150	104	
		75	129	
		324	60,3	168,3
		277	76,1	
		238	88,9	
		162	114,3	
		86	139,7	
		360	84	204,0
		300	104	
		225	129	
		150	154	
		391	88,9	219,1
		314	114,3	
		238	139,7	
		152	168,3	
		450	104	254,0
		375	129	
		300	154	
		150	204	
		476	114,3	237,0
		400	139,7	
		314	168,3	
		162	219,1	
		600	104	304,0
		525	129	
		450	154	
		300	204	
		150	254	

For further measurements please contact us !

NW	L	d	D	Reducer Excentr. ISO & Metric Lasverloop Excentr. ISO & Metrisch
	11	13,7	17,2	
	23	13,7	21,3	
	12	17,2		
	40	13,7	26,9	
	29	17,2		
	17	21,3		
	60	13,7	33,7	
	50	17,2		
	37	21,3		
	20	26,9		
	86	13,7	42,4	
	76	17,2		
	63	21,3		
	46	26,9		
	26	33,7		
	60	24	44,0	
	75	29		
	30	34		
	93	17,2	48,3	
	81	21,3		
	64	26,9		
	44	33,7		
	18	42,4		
	90	24	54,0	
	75	29		
	60	34		
	30	44		
	117	21,3	60,3	
	100	26,9		
	80	33,7		
	54	42,4		
	36	48,3		
	105	34	69,0	
	75	44		
	45	54		
	148	26,9	76,1	
	127	33,7		
	101	42,4		
	83	48,3		
	47	60,3		
	120	44	84,0	
	90	54		
	60	64		
	45	69		
	30	74		
	166	33,7	88,9	
	139	42,4		
	122	48,3		
	86	60,3		
	38	76,1		
	150	54	104,0	
	120	65		
	105	69		
	90	74		
	60	84		
	262	26,9	114,3	
	242	33,7		
	216	42,4		
	198	48,3		
	162	60,3		



e = 2mm & 3mm

Reducer Excentr. ISO & Metric Lasverloop Excentr. ISO & Metrisch	NW	L	d	D
 e = 2mm & 3mm		115	76,1	114,3
		76	88,9	
		225	54	129,0
		180	69	
		135	84	
		75	104	
		238	60,3	139,7
		191	76,1	
		152	88,9	
		76	114,3	
		300	54	154,0
		255	69	
		210	84	
		150	104	
		75	129	
		324	60,3	168,3
		277	76,1	
		238	88,9	
		162	114,3	
		86	139,7	
		360	84	204,0
		300	104	
		225	129	
		150	154	
		391	88,9	219,1
		314	114,3	
		238	139,7	
		152	168,3	
		450	104	254,0
		375	129	
		300	154	
		150	204	
		476	114,3	237,0
		400	139,7	
		314	168,3	
		162	219,1	
		600	104	304,0
		525	129	
		450	154	
		300	204	
		150	254	

For further measurements please contact us !

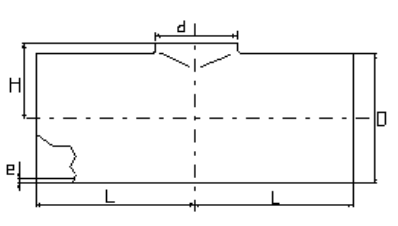
NW	L	H	D	
10	25,5	10	17,2	1,6
15	25,5	10	18,0	1,5
	25,5	12	21,3	2,0
20	25,5	13	23,0	1,5
	28,5	15	26,9	2,0
25	28,5	15	28,0	1,5
	38	19	33,7	2,0
	47,5	21	38,0	1,5
	47,5	22	40,0	1,5
32	47,5	23	42,4	2,0
40	47,5	24	44,0	2,0
	57	26	48,3	2,0
50	57	29	53,0	1,5
	57	29	54,0	2,0
	63,5	33	60,3	2,0
65	63,5	38	69/70	2,0
	76	40	73,0	1,5
	76	41	76,1	*
80	85,5	45	84,0	2,0
	85,5	48	86,0	3,0
	85,5	48	88,9	*
100	105	55	104,0	2,0
	105	56	106,0	3,0
	105	55	114,3	*
125	124	65	123,0	1,5
	124	69	129,0	2,0
	124	76	139,7	*
150	143	84	154,0	2,0
	143	84	156,0	3,0
	143	92	168,3	*
200	178	110	204,0	2,0
	178	110	206,0	3,0
	178	118	219,1	*
250	216	140	254,0	2,0
	216	140	256,0	3,0
	216	148	273,0	*

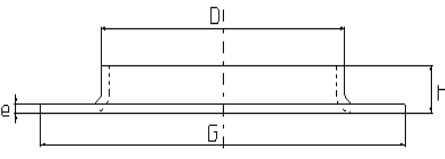
Tee short ISO & Metric

T-stuk kort ISO & Metrisch

* e = 2mm & 3mm

For further measurements please contact us !

Reducing Tee short ISO & Metric Verloop T-stuk kort ISO & Metrisch	NW	L	H	d	D	e
	15	25,5	12	17,2	21,3	
	20	28,5	15	17,2	26,9	
		28,5	15	21,3	26,9	
	25	38	19	21,3	33,7	
		38	19	26,9		
	32	47,5	23	21,3	42,4	
		47,5	23	26,9		
		47,5	23	33,7		
	40	57	26	21,3	48,3	
		57	26	26,9		
		57	26	33,7		
		57	26	42,4		
	50	63,5	33	21,3	60,3	
		63,5	33	26,9		
		63,5	33	33,7		
		63,5	33	42,4		
		63,5	3	48,3		
	65	76	41	21,3	76,1	
		76	41	26,9		
		76	41	33,7		
		76	41	42,4		
		76	41	48,3		
		76	41	60,3		
	80	85,5	45	54	84,0	
		85,5	48	21,3	88,9	
		85,5	48	26,9		
		85,5	48	33,7		
		85,5	48	42,4		
		85,5	48	48,3		
		85,5	48	60,3		
		85,5	48	76,1		
	100	105	55	54	104,0	
		105	55	84		
		105	61	21,3	114,3	
		105	61	26,9		
		105	61	33,7		
		105	61	42,4		
		105	61	48,3		
		105	61	60,3		
		105	61	76,1		
		105	61	88,9		
	125	124	69	84	129,0	
		124	69	104		
		124	76	26,9	139,7	
		124	76	33,7		
		124	76	42,4		
		124	76	48,3		
		124	76	60,3		
		124	76	76,1		
		124	76	88,9		
		124	76	114,3		
	150	143	84	84	154,0	
		143	84	104		
		143	84	129		
For further measurements please contact us !						

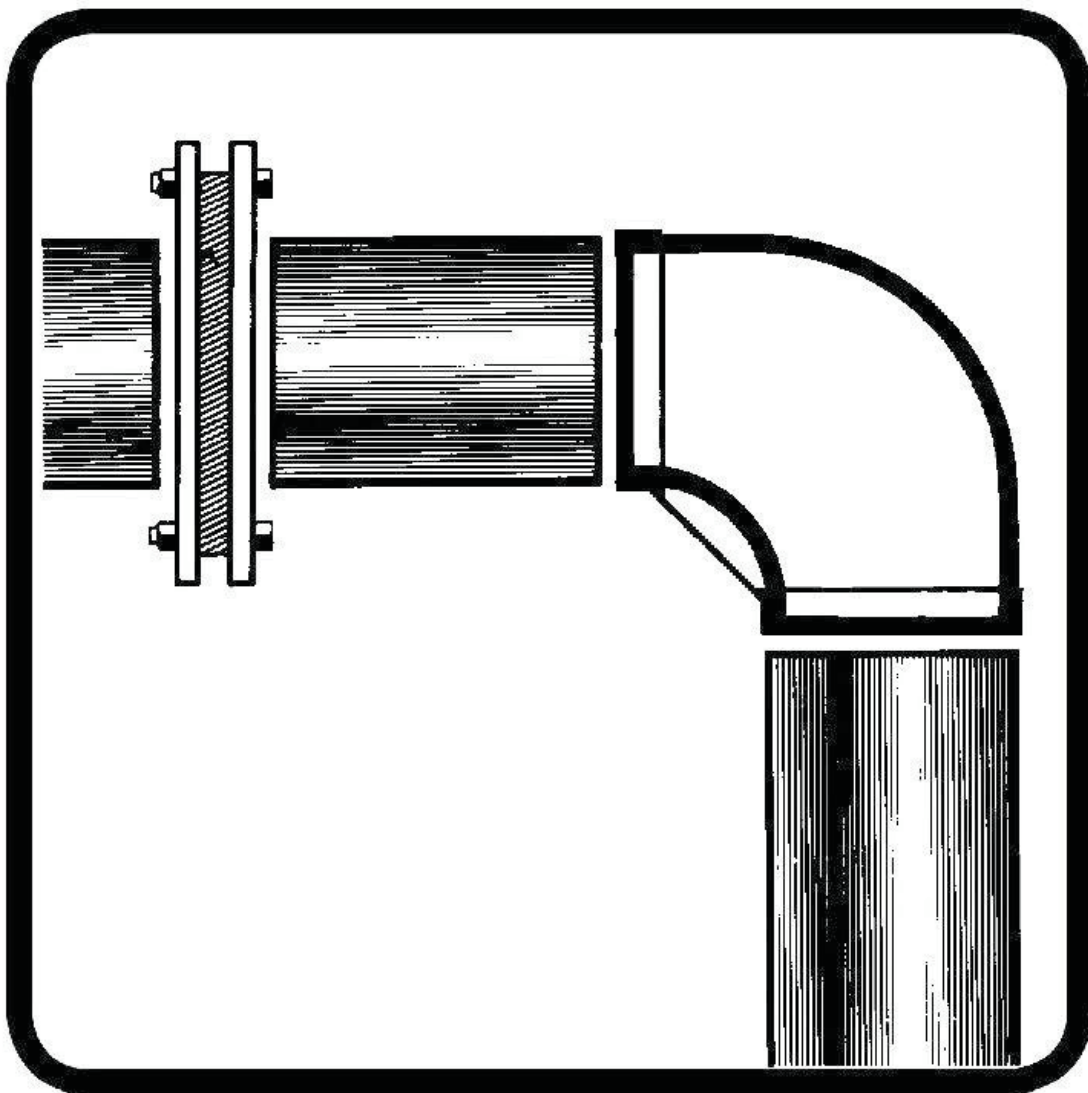
Welding neck 2642 ISO & Metric Boordring 2642 ISO & Metrisch		NW	G	H	D	e
		10	42	6	17,2	2,0
		15	42	6	18,0	2,0
			47	6	21,3	2,0
			58	7	24,0	2,0
		20	58	7	26,9	2,0
		25	68	9	28,0	2,0
			68	10	33,7	*
			78	9	34,0	2,0
			78	10	38,0	2,0
		32	78	10	42,4	*
			88	10	44,0	2,0
		40	88	10	48,3	*
		50	102	12	54,0	2,0
			102	15	56,0	3,0
			102	13	60,3	*
			115	13	64,0	2,0
		65	115	12	69,0	2,0
			115	15	71,0	3,0
			122	12	74,0	2,0
			122	13	76,1	*
		80	133	13	84,0	2,0
			133	15	86,0	3,0
			133	13	88,9	*
		100	158	14	104,0	2,0
			158	15	106,0	3,0
			158	13	114,3	*
		125	165/170	13	124,0	2,0
			184	14	129,0	2,0
			184	20	131,0	3,0
			184	20	133,0	4,0
			184	14	139,7	*
		150	212	18	154,0	2,0
			212	20	156,0	3,0
			212	25	158,0	4,0
			212	20	159,0	3,0
			212	18	168,3	*
			233	18	179,0	2,0
		200	268	23	204,0	2,0
			268	25	206,0	3,0
			268	25	208,0	4,0
			268	22	219,1	*
		250	320	23	254,0	2,0
			320	25	256,0	3,0
			320	25	258,0	4,0
			320	22	273,0	*
		300	370	24	304,0	2,0
			370	24	306,0	3,0
			370	25	308,0	4,0

* e = 2mm & 3mm

For further measurements please contact us !

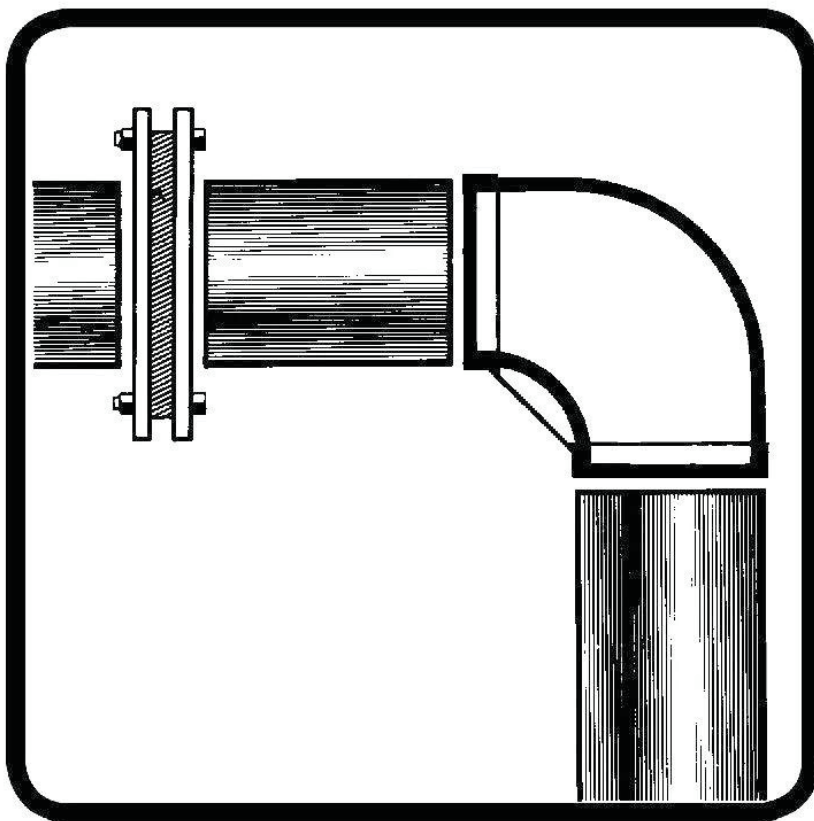
4.0 - *Pipe connections* *Buisverbindingen*

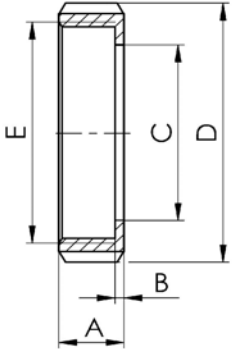
4.0

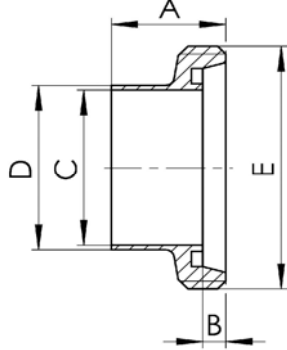


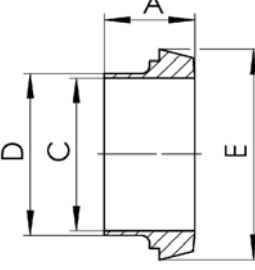
4.1 - *Pipe connections* ***Buisverbindingen***

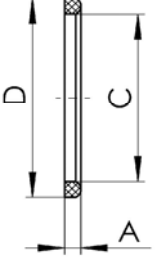
Connection parts 11851
Koppelingen 11851
Flange connection 11851
Flensverbindingen 11851

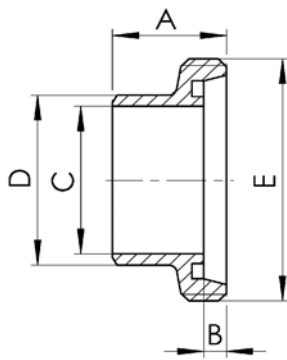


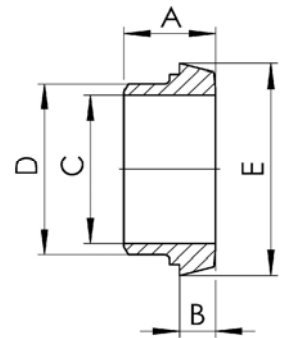
NW	A	B	C	D	E	Nut DIN 11851 Wartelmoer DIN 11851
10	18	3	19	38	Rd 28x1/8"	
15	18	3	25	44	Rd 34x1/8"	
20	20	3	31	54	Rd 44x1/6"	
25	21	3	36	63	Rd 52x1/6"	
32	21	3	42,5	70	Rd 58x1/6"	
40	21	3	49	78	Rd 65x1/6"	
50	22	3	62	92	Rd 78x1/6"	
65	25	4	80	112	Rd 95x1/6"	
75	26	5	88	120	Rd 104x1/6"	
80	29	4	94	127	Rd 110x1/4"	
100	31	5	115	148	Rd 130x1/4"	
125	35	5	138	178	Rd 160x1/4"	
150	40	6	164	210	Rd 190x1/4"	

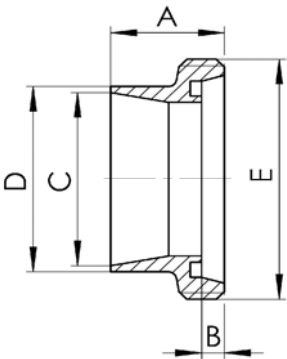
NW	A	B	C	D	E	Male DIN 11851 Draadstuk DIN 11851
10	21	4	10	15	Rd 28x1/8"	
15	21	4	16	21	Rd 34x1/8"	
20	24	6	20	25	Rd 44x1/6"	
25	29	7	26	31	Rd 52x1/6"	
32	32	7	32	37	Rd 58x1/6"	
40	33	7	38	43	Rd 65x1/6"	
50	35	7	50	55	Rd 78x1/6"	
65	40	8	66	72	Rd 95x1/6"	
80	45	8	81	87	Rd 110x1/4"	
100	54	10	100	106	Rd 130x1/4"	
125	46	12	125	132	Rd 160x1/4"	
150	50	13	150	157	Rd 190x1/4"	

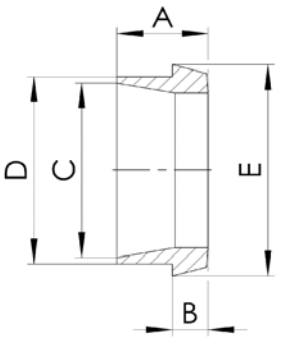
NW	A	B	C	D	E	Liner DIN 11851 Puntstuk DIN 11851
10	17		10	15	22	
15	17		16	21	28	
20	18		20	25	36	
25	22		26	31	44	
32	25		32	37	50	
40	26		38	43	56	
50	28		50	55	68,5	
65	32		66	72	86	
80	37		81	87	100	
100	44		100	106	121	
125	34		125	132	150	
150	37		150	157	176	

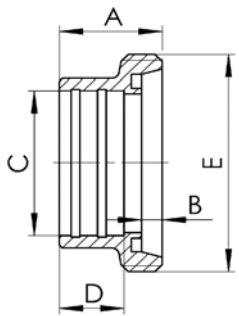
NW	A	B	C	D	E	Seal DIN 11851 Dichting DIN 11851
10	4		12	20	available in:	
15	4		18	26	nbr	
20	4		23	33	epdm	
25	5		30	40	silicone	
32	5		36	46	viton	
40	5		42	52	ptfe	
50	5		54	64		
65	5		71	81		
80	5		85	95		
100	6,5		104	114		
125	7		130	142		
150	7		155	167		

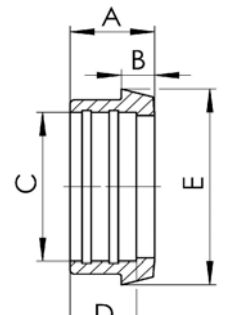
Male DIN 11851 Inch Draadstuk DIN 11851 Inch	NW	A	B	C	D	E
	1"	29	7	22,9	27,9	Rd 52x1/6"
	1,25"	33	7	29,2	33	Rd 58x1/6"
	1,5"	33	7	35,1	40	Rd 65x1/6"
	2"	35	7	47,8	53	Rd 78x1/6"
	2,5"	40	8	60,5	65,5	Rd 95x1/6"
	3"	40	8	73,2	78	Rd 104x1/6"
	4"	54	10	97,6	104	Rd 130x1/4"

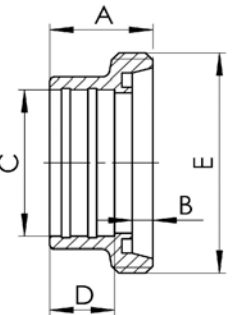
Liner DIN 11851 Inch Puntstuk DIN 11851 Inch	NW	A	B	C	D	E
	1"	29	7	22,9	27,9	44
	1,25"	25	7	29,2	33	50
	1,5"	33	7	35,1	40	56
	2"	35	7	47,8	53	68,5
	2,5"	40	8	60,5	65,5	86
	3"	40	8	73,2	78	93
	4"	54	10	97,6	104	121

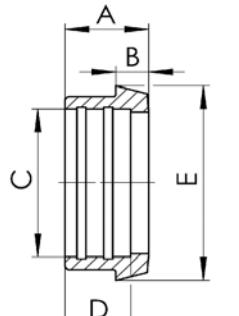
Male DIN 11851 ISO Draadstuk DIN 11851 ISO	NW	A	B	C	D	E
	10	21	4	14,4	17,6	Rd 28x1/8"
	15	21	4	18,1	21,3	Rd 34x1/8"
	20	24	6	23,7	26,9	Rd 44x1/6"
	25	29	7	29,7	33,7	Rd 52x1/6"
	32	32	7	38,4	42,4	Rd 58x1/6"
	40	33	7	44,3	48,3	Rd 65x1/6"
	50	35	7	56,3	60,3	Rd 78x1/6"
	65	40	8	72,1	76,1	Rd 95x1/6"
	80	45	8	84,9	88,9	Rd 110x1/4"
	100	54	10	109,1	114,3	Rd 130x1/4"
	125	46	12	134,5	139,7	Rd 160x1/4"
	150	50	13	163,1	168,3	Rd 190x1/4"

Liner DIN 11851 ISO Puntstuk DIN 11851 ISO	NW	A	B	C	D	E
	10	17		14,4	17,6	22
	15	17		18,1	21,3	28
	20	18		23,7	26,9	36
	25	22		29,7	33,7	44
	32	25		38	42	50
	40	26		44,3	48,3	56
	50	28		56,3	60,3	68,5
	65	32		72,1	76,1	86
	80	37		84,9	88,9	100
	100	44		109,1	114,3	121
	125	34		134,5	139,7	150
	150	37		163,1	168,3	176

NW	A	B	C	D	E	Expanding male DIN 11851 Walsdraadstuk DIN 11851
10	21	4	13,2	12	Rd 28x1/8"	
15	21	4	19,2	12	Rd 34x1/8"	
20	24	6	23,2	12	Rd 44x1/6"	
25	29	7	29,2	15	Rd 52x1/6"	
32	32	7	35,2	18	Rd 58x1/6"	
40	33	7	41,2	20	Rd 65x1/6"	
50	35	7	53,2	22	Rd 78x1/6"	
65	40	8	71,2	25	Rd 95x1/6"	
80	45	8	86,3	28	Rd 110x1/4"	
100	54	10	105,3	35	Rd 130x1/4"	

NW	A	B	C	D	E	Expanding liner DIN 11851 Walspuntstuk DIN 11851
10	17		13,2	12	22,5	
15	17		19,2	12	28,5	
20	18		23,2	12	36,5	
25	22		29,2	15	44	
32	25		35,2	18	50	
40	26		41,2	20	56	
50	28		53,2	22	68,5	
65	32		71,2	25	86	
80	37		86,3	28	100	
100	44		105,3	35	121	

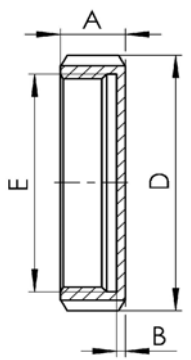
NW	A	B	C	D	E	Expanding male DIN 11851 Inch Walsdraadstuk DIN 11851 Inch
1"	29	7	26,6	15	Rd 52x1/6"	
1,25"	32	7	33	18	Rd 58x1/6"	
1,5"	33	7	39,3	20	Rd 65x1/6"	
2"	35	7	52	22	Rd 78x1/6"	
2,5"	40	8	64,8	25	Rd 95x1/6"	
3"	40	8	77,4	25	Rd 104x1/6"	
4"	54	10	102,9	35	Rd 130x1/4"	

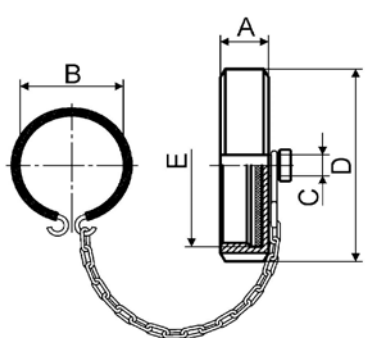
NW	A	B	C	D	E	Expanding liner DIN 11851 Inch Walspuntstuk DIN 11851 Inch
1"	22	10	26,6	15	44	
1,25"	25	10	33	18	50	
1,5"	26	10	39,3	20	56	
2"	28	11	52	22	68,5	
2,5"	32	12	64,8	25	86	
3"	32	12	77,4	25	93	
4"	44	13	102,9	35	121	

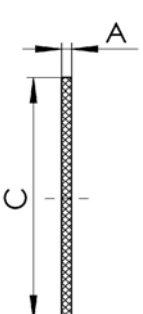
Male blank DIN 11851 Blinddraadstuk DIN 11851		NW	A	B	C	D	E
		10	22	4	SW 12	19	Rd 28x1/8"
		15	22	4	SW 12	19	Rd 34x1/8"
		20	24	6	SW 12	19	Rd 44x1/6"
		25	24	7	SW 27	34	Rd 52x1/6"
		32	24	7	SW 27	34	Rd 58x1/6"
		40	24	7	SW 27	34	Rd 65x1/6"
		50	24	7	SW 27	34	Rd 78x1/6"
		65	28	8	SW 27	34	Rd 95x1/6"
		80	30	8	SW 27	34	Rd 110x1/4"
		100	30	10	SW 27	34	Rd 130x1/4"

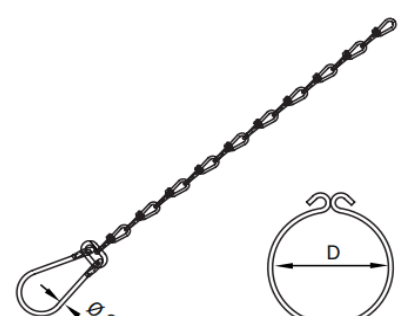
Liner blank DIN 11851 Blindpuntstuk DIN 11851		NW	A	B	C	D	E
		10	9	6		18	22
		15	9	6		24	28
		20	11	8		30	36
		25	13	10		35	44
		32	13	10		41	50
		40	13	10		48	56
		50	14	11		61	68
		65	16	12		79	86
		80	16	12		93	100
		100	20	15		114	121
		125	22	17		137	150
		150	24	18		163	176

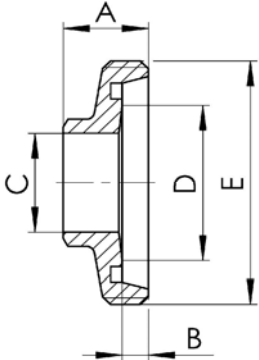
Plug liner blank DIN 11851 Blindpuntstuk DIN 11851 geperst		NW	A	B	C	D	E
		25	10	1,5			47
		32	10	1,5			53
		40	10	1,5			60
		50	11	1,5			73
		65	12	1,5			90
		80	12	1,5			103
		100	15	2			123

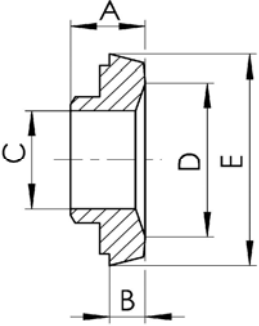
NW	A	B	C	D	E	Blindnut DIN 11851 Blindwartel DIN 11851
10	18	3		38	Rd 28x1/8"	
15	18	3		44	Rd 34x1/8"	
20	20	3		54	Rd 44x1/6"	
25	21	3		63	Rd 52x1/6"	
32	21	3		70	Rd 58x1/6"	
40	21	3		78	Rd 65x1/6"	
50	22	3		92	Rd 78x1/6"	
65	25	4		112	Rd 95x1/6"	
80	29	4		127	Rd 110x1/4"	
100	31	5		148	Rd 130x1/4"	
125	35	5		178	Rd 160x1/4"	
150	40	6		210	Rd 190x1/4"	

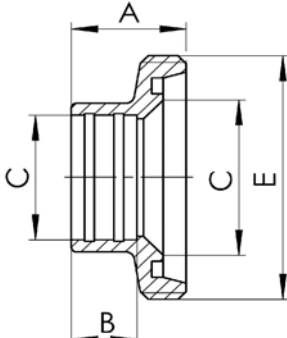
NW	A	B	C	D	E	Blindnut DIN 11851 complete Blindwartel DIN 11851 compleet
10	18		10	38	Rd 28x1/8"	
15	18		10	44	Rd 34x1/8"	
20	20		10	54	Rd 44x1/6"	
25	21		10	63	Rd 52x1/6"	
32	21		10	70	Rd 58x1/6"	
40	21		10	78	Rd 65x1/6"	
50	22		10	92	Rd 78x1/6"	
65	25		10	112	Rd 95x1/6"	
80	29		10	127	Rd 110x1/4"	
100	31		10	148	Rd 130x1/4"	
125	35		10	178	Rd 160x1/4"	
150	40		10	210	Rd 190x1/4"	

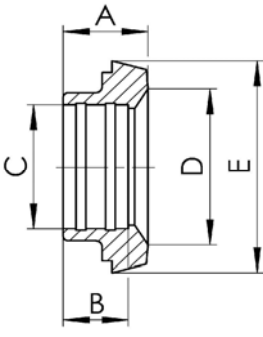
NW	A	A	C	D	E	Seal disc DIN 11851 Blindwarteldichting DIN 11851
		PTFE				
10	3	1,5	28	available in:		
15	3	1,5	34	nbr		
20	3	1,5	44	epdm		
25	3	1,5	52	silicone		
32	3	1,5	58	viton		
40	3	1,5	65	ptfe		
50	3	1,5	78			
65	3	1,5	95			
80	3	1,5	110			
100	3	1,5	130			
125	3	1,5	160			
150	3	1,5	190			

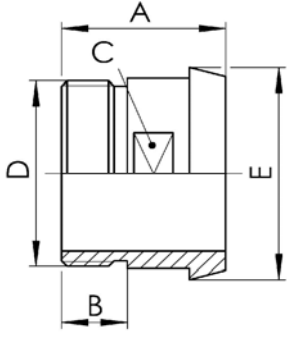
NW	Chain Blindwartelketting
10	
15	
20	
25	
32	
40	
50	
65	
80	
100	

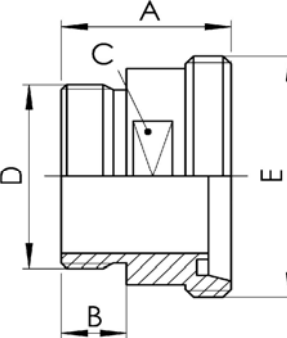
Reducing male DIN 11851 Verloopdraadstuk DIN 11851	NW	A	B	C	D	E
	25/ 15	29	7	16	26	Rd 28x1/8"
	32/ 15	29	7	16	32	Rd 34x1/8"
	32/ 20	29	7	20	32	Rd 34x1/8"
	32/ 25	31	7	26	32	Rd 34x1/8"
	40/ 15	29	7	16	38	Rd 65x1/6"
	40/ 20	29	7	20	38	Rd 65x1/6"
	40/ 25	31	7	26	38	Rd 65x1/6"
	40/ 32	32	7	32	38	Rd 65x1/6"
	50/ 25	26	7	26	50	Rd 78x1/6"
	50/ 32	29	7	32	50	Rd 78x1/6"
	50/ 40	33	7	38	50	Rd 78x1/6"
	65/ 25	34	8	26	66	Rd 95x1/6"
	65/ 32	39	8	32	66	Rd 95x1/6"
	65/ 40	39	8	38	66	Rd 95x1/6"
	65/ 50	38	8	50	66	Rd 95x1/6"
	80/ 40	43	8	38	81	Rd 110x1/4"
	80/ 50	45	8	50	81	Rd 110x1/4"
	80/ 65	43	8	66	81	Rd 110x1/4"
	100/ 50	49	10	50	100	Rd 130x1/4"
	100/ 65	49	10	66	100	Rd 130x1/4"
	100/ 80	51	10	81	100	Rd 130x1/4"

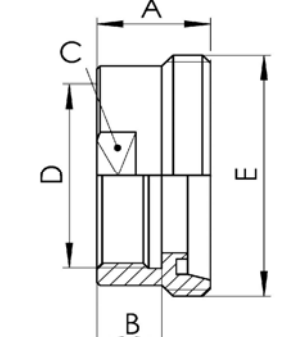
Reducing liner DIN 11851 Verlooppuntstuk DIN 11851	NW	A	B	C	D	E
	32/ 25	24	10	26	32	50
	40/ 25	24	10	26	38	56
	40/ 32	24	10	32	38	56
	50/ 25	28	11	26	50	68
	50/ 32	23	11	32	50	68
	50/ 40	26	11	38	50	68
	65/ 32	32	12	32	66	86
	65/ 40	26	12	38	66	86
	65/ 50	30	12	50	66	86
	80/ 40	36	12	38	81	100
	80/ 50	30	12	50	81	100
	80/ 65	35	12	66	81	100
	100/ 50	40	15	50	100	121
	100/ 65	40	15	66	100	121
	100/ 80	42	15	81	100	121

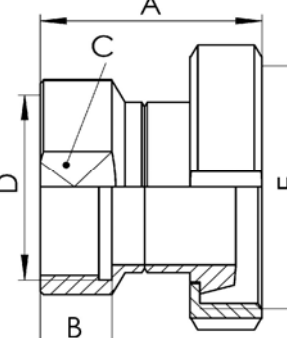
NW	A	B	C	D	E	Expanding reducing male DIN 11851 Walsverloopdraadstukken DIN 11851
25/ 15	29	12	18,2	26	Rd 28x1/8"	
32/ 15	29	12	18,2	32	Rd 34x1/8"	
32/ 20	29	12	22,2	32	Rd 34x1/8"	
32/ 25	27	12	28,2	32	Rd 34x1/8"	
40/ 15	29	12	18,2	38	Rd 65x1/6"	
40/ 20	29	12	22,2	38	Rd 65x1/6"	
40/ 25	28	15	28,2	38	Rd 65x1/6"	
40/ 32	29	18	34,2	38	Rd 65x1/6"	
50/ 25	26	15	28,2	50	Rd 78x1/6"	
50/ 32	29	18	34,2	50	Rd 78x1/6"	
50/ 40	35	20	40,2	50	Rd 78x1/6"	
65/ 25	34	15	28,2	66	Rd 95x1/6"	
65/ 32	39	18	34,2	66	Rd 95x1/6"	
65/ 40	39	20	40,2	66	Rd 95x1/6"	
65/ 50	40	22	52,2	66	Rd 95x1/6"	
80/ 40	43	20	40,2	81	Rd 110x1/4"	
80/ 50	45	22	52,2	81	Rd 110x1/4"	
80/ 65	46	25	70,3	81	Rd 110x1/4"	
100/ 50	49	22	52,2	101	Rd 130x1/4"	
100/ 65	49	25	70,3	101	Rd 130x1/4"	
100/ 80	49	28	85,3	101	Rd 130x1/4"	

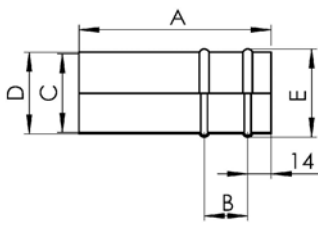
NW	A	B	C	D	E	Expanding reducing liner DIN 11851 Walsverlooppuntstukken DIN 11851
32/ 25	20	15	28,2	50	50	
40/ 25	20	15	28,2	56	56	
40/ 32	23	18	34,2	56	56	
50/ 25	28	15	28,2	68	68	
50/ 32	23	18	34,2	68	68	
50/ 40	26	20	40,2	68	68	
65/ 32	32	18	34,2	86	86	
65/ 40	26	20	40,2	86	86	
65/ 50	27	22	52,2	86	86	
80/ 40	36	20	40,2	100	100	
80/ 50	30	22	52,2	100	100	
80/ 65	31	25	70,3	100	100	
100/ 50	40	22	52,2	121	121	
100/ 65	40	25	70,3	121	121	
100/ 80	42	28	85,3	121	121	

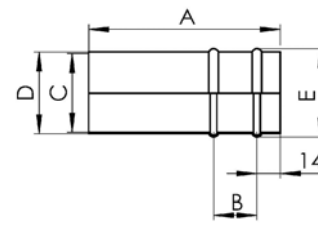
<i>Male thread liner adapter</i> <i>Inschroefpuntstuk DIN 11851</i>	NW	A	B	C	D	E
	10	38	14	SW 14	R 3/8"	22
	15	38	14	SW 19	R 1/2"	28
	20	40	14	SW 27	R 3/4"	36
	25	50	20	SW 30	R 1"	44
	32	50	20	SW 36	R 1 1/4"	50
	40	50	20	SW 40	R 1 1/2"	56
	50	50	20	SW 55	R 2"	68
	65	55	22	SW 70	R 2 1/2"	86
	80	60	25	SW 88	R 3"	100
	100	70	30	SW 110	R 4"	121

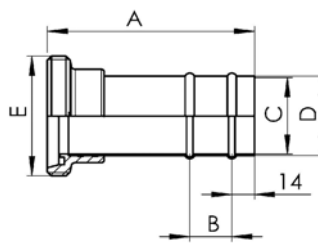
<i>Male part adapter</i> <i>Inschroefdraadstuk DIN 11851</i>	NW	A	B	C	D	E
	10	40	14	SW 19	R 3/8"	Rd 28x1/8"
	15	40	14	SW 24	R 1/2"	Rd 34x1/8"
	20	42	14	SW 30	R 3/4"	Rd 44x1/6"
	25	48	20	SW 36	R 1"	Rd 52x1/6"
	32	48	20	SW 46	R 1 1/4"	Rd 58x1/6"
	40	50	20	SW 50	R 1 1/2"	Rd 65x1/6"
	50	52	20	SW 60	R 2"	Rd 78x1/6"
	65	56	22	SW 75	R 2 1/2"	Rd 95x1/6"
	80	66	25	SW 90	R 3"	Rd 110x1/4"
	100	72	30	SW 105	R 4"	Rd 130x1/4"

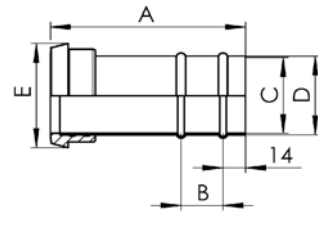
<i>Female part adapter</i> <i>Opschroefdraadstuk DIN 11851</i>	NW	A	B	C	D	E
	10	30	14	SW 19	R 3/8"	Rd 28x1/8"
	15	30	14	SW 24	R 1/2"	Rd 34x1/8"
	20	30	14	SW 30	R 3/4"	Rd 44x1/6"
	25	35	20	SW 41	R 1"	Rd 52x1/6"
	32	35	20	SW 46	R 1 1/4"	Rd 58x1/6"
	40	35	20	SW 55	R 1 1/2"	Rd 65x1/6"
	50	35	20	SW 65	R 2"	Rd 78x1/6"
	65	38	22	SW 80	R 2 1/2"	Rd 95x1/6"
	80	43	25	SW 95	R 3"	Rd 110x1/4"
	100	50	30	SW 117	R 4"	Rd 130x1/4"

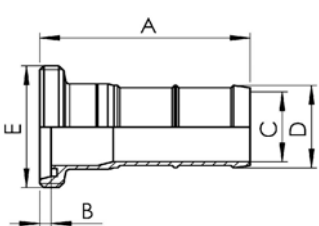
<i>Female thread liner</i> <i>Opschroefpuntstuk DIN 11851</i>	NW	A	B	C	D	E
	10	37	12	SW 19	R 3/8"	Rd 28x1/8"
	15	42	15	SW 24	R 1/2"	Rd 34x1/8"
	20	43	15	SW 30	R 3/4"	Rd 44x1/6"
	25	52	20	SW 36	R 1"	Rd 52x1/6"
	32	55	20	SW 46	R 1 1/4"	Rd 58x1/6"
	40	56	20	SW 55	R 1 1/2"	Rd 65x1/6"
	50	60	22	SW 65	R 2"	Rd 78x1/6"
	65	64	22	SW 80	R 2 1/2"	Rd 95x1/6"
	80	74	25	SW 95	R 3"	Rd 110x1/4"
	100	98	30	SW 115	R 4"	Rd 130x1/4"

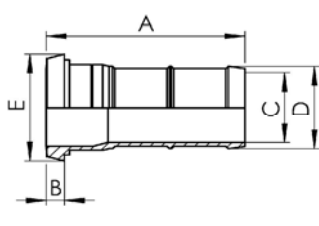
NW	A	B	C	D	E	Hose nozzle tube DIN 11851 Slangtule buis DIN 11851
15	50	20	15	18	21	
20	50	20	19	22	25	
25	60	20	25	28	31	
32	70	25	31	34	37	
40	80	25	37	40	43	
50	90	25	49	52	56	
65	100	25	66	70	74	
80	110	30	81	85	89	
100	120	40	100	104	109	

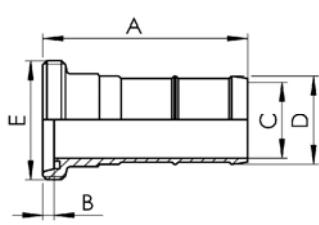
NW	A	B	C	D	E	Hose nozzle tube DIN 11851 Inch Slangtule buis DIN 11851 Inch
1"	60	20	22,4	25,4	28,4	
1,25"	70	25	28,8	31,8	34,8	
1,5"	80	25	35,1	38,1	41,1	
2"	90	25	47,8	50,8	54,8	
2,5"	100	25	60,5	63,5	67,5	
3"	110	30	74,1	76,1	80,1	
4"	120	39	97,6	101,6	106,6	

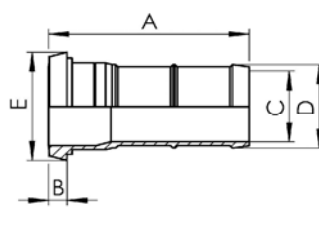
NW	A	B	C	D	E	Male part hose fitting DIN 11851 Slangtule buis DIN 11851 draadstuk
25	89	22	26	28	Rd 52x1/6"	
32	99	22	32	34	Rd 58x1/6"	
40	113	22	38	40	Rd 65x1/6"	
50	128	40	50	52	Rd 78x1/6"	
65	155	40	66	70	Rd 95x1/6"	
80	207	50	81	85	Rd 110x1/4"	
100	229	50	100	104	Rd 130x1/4"	

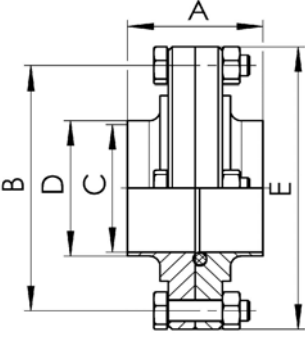
NW	A	B	C	D	E	Liner hose fitting DIN 11851 Slangtule buis DIN 11851 puntstuk
25	82	22	26	28	44	
32	92	22	32	35	50	
40	106	22	38	40	56	
50	121	40	50	52	68	
65	147	50	66	70	86	
80	199	50	81	85	100	
100	219	50	100	104	120	

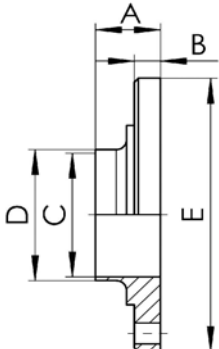
Male hose fitting DIN 11851 Slangtule bier DIN 11851 draadstuk	NW	A	B	C	D	E
	25	87	7	24	30	Rd 52x1/6"
	32	97	7	28	34	Rd 58x1/6"
	40	112	7	32	43	Rd 65x1/6"
	50	127	7	45	53	Rd 78x1/6"
	65	148	8	60	68	Rd 95x1/6"
	80	168	8	74	83	Rd 110x1/4"
	100	190	10	93	103	Rd 130x1/4"

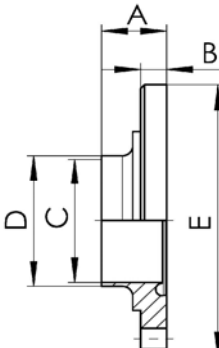
Liner hose fitting DIN 11851 Slangtule bier DIN 11851 puntstuk	NW	A	B	C	D	E
	25	80	10	24	30	44
	32	90	10	28	34	50
	40	105	10	32	43	56
	50	120	11	45	53	68
	65	140	12	60	68	86
	80	160	12	74	83	100
	100	180	15	93	103	120

Male part hose fitting DIN 11854 Slangtule draadstuk DIN 11854	NW	A	B	C	D	E
	10	54	4	10	15	Rd 28x1/8"
	15	64	4	16	21	Rd 34x1/8"
	20	76	6	20	27	Rd 44x1/6"
	25	87	7	26	32	Rd 52x1/6"
	32	97	7	32	40	Rd 58x1/6"
	40	112	7	38	48	Rd 65x1/6"
	50	127	7	50	58	Rd 78x1/6"
	65	148	8	66	76	Rd 95x1/6"
	80	168	8	81	90	Rd 110x1/4"
	100	190	10	100	110	Rd 130x1/4"

Liner hose fitting DIN 11854 Slangtule puntstuk DIN 11854	NW	A	B	C	D	E
	10	50	6	10	15	22
	15	60	6	16	21	28
	20	70	8	20	27	36
	25	80	10	26	32	44
	32	90	10	32	40	50
	40	105	10	38	48	56
	50	120	11	50	58	68
	65	140	12	66	76	86
	80	160	12	81	90	100
	100	180	15	100	110	120

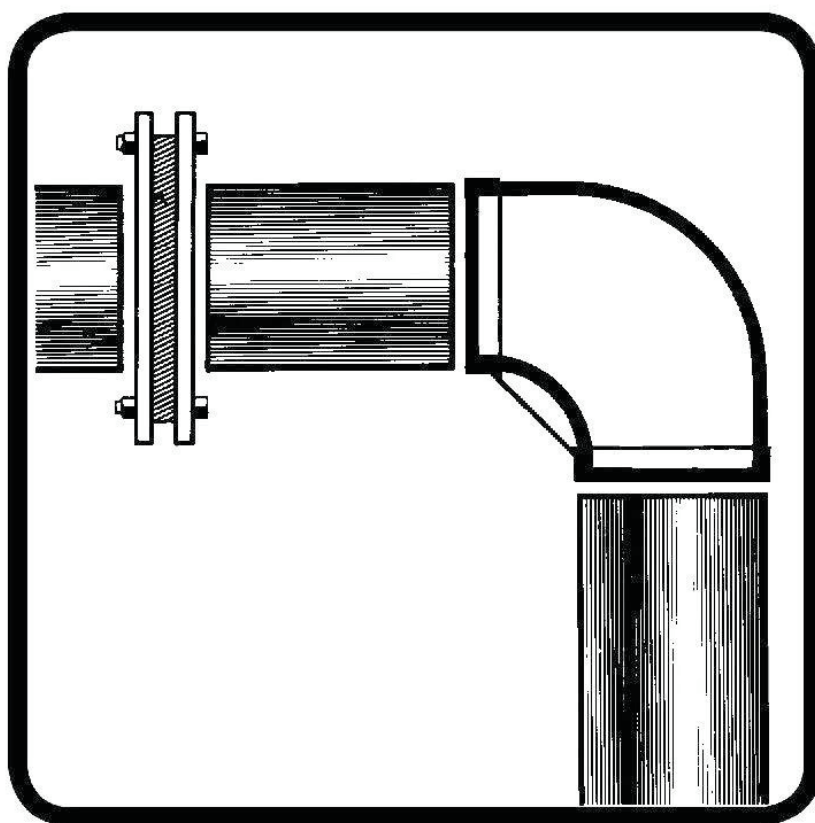
NW	A	B	C	D	E	Flange connection 11851 complete Flensverbinding 11851 compleet
25	40	73	26	29	87	
32	42	78	32	35	92	
40	50	82,5	38	41	97	
50	50	95,5	50	53	110	
65	50	112,5	66	70	127	
80	60	127,5	81	85	142	
100	64	147,5	100	104	162	
125	80	180	125	129	198	
150	90	210	150	154	228	

NW	A	B	C	D	E	Flange 11851 without Nut Flens 11851 zonder groef
25	20	10	26	29	87	
32	21	10	32	35	92	
40	25	10	38	41	97	
50	25	10	50	53	110	
65	25	10	66	70	127	
80	30	15	81	85	142	
100	32	16	100	104	162	
125	40	16	125	129	198	
150	45	16	150	154	228	

NW	A	B	C	D	E	Flange 11851 with Nut Flens 11851 met groef
25	20	10	26	29	87	
32	21	10	32	35	92	
40	25	10	38	41	97	
50	25	10	50	53	110	
65	25	10	66	70	127	
80	30	15	81	85	142	
100	32	16	100	104	162	
125	40	16	125	129	198	
150	45	16	150	154	228	

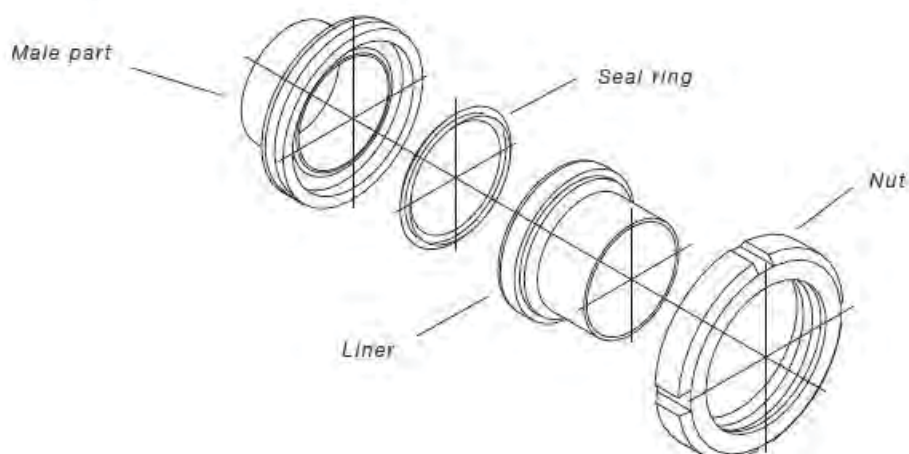
4.2 - *Pipe connections* *Buisverbindingen*

Connection parts
11864 & 11853
Koppelingen
11864 & 11853

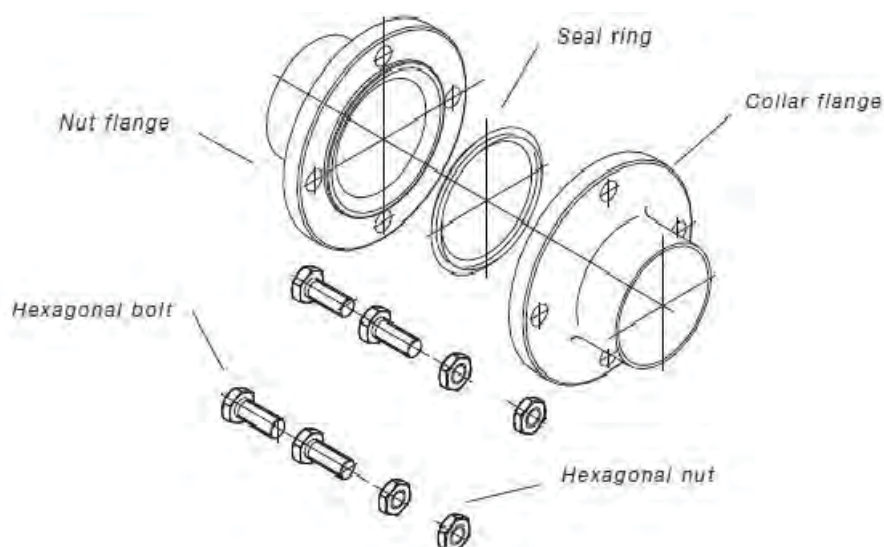


4.2

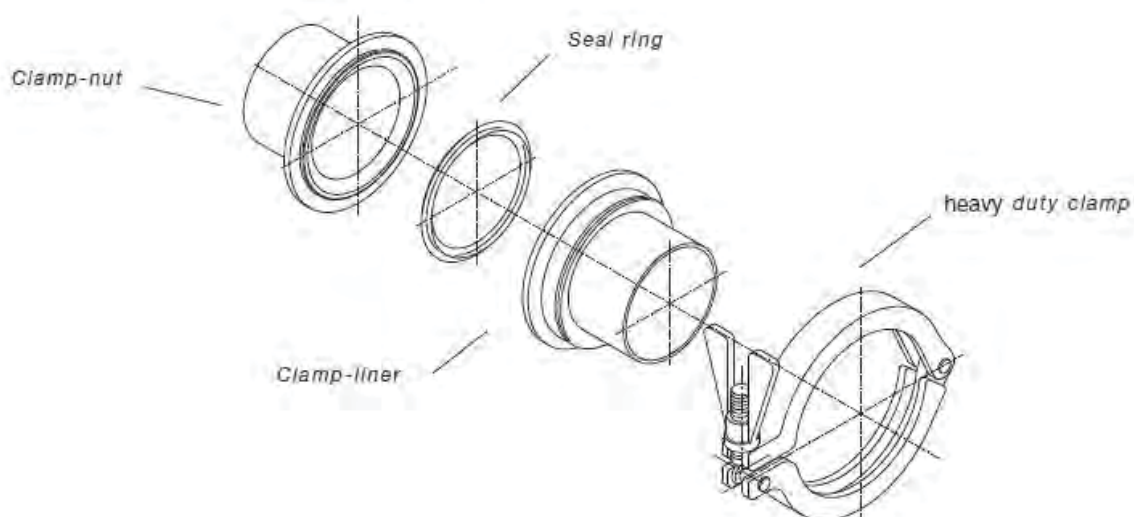
DIN 11864-1 (11853-1): Aseptic pipe unions



DIN 11864-2 (11853-2): Aseptic flanged joint



DIN 11864-3 (11853-3): Aseptic clamp connection

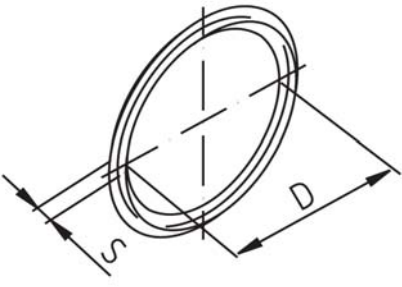


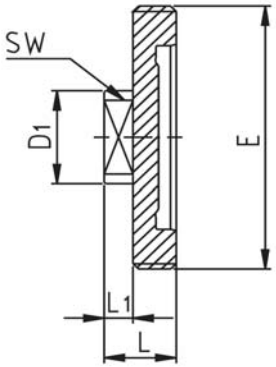
NW	D1	D2	D3	L	E	Union DIN 11864/1 11866 A Koppeling DIN 11864/1 11866 A
10	10	13	38	76	Rd 28 x 1/8"	
15	16	19	44	76	Rd 34 x 1/8"	
20	20	23	54	76	Rd 44 x 1/6"	
25	26	29	63	77	Rd 52 x 1/6"	
32	32	35	70	88	Rd 58 x 1/6"	
40	38	41	78	88	Rd 65 x 1/6"	
50	50	53	92	89	Rd 78 x 1/6"	
65	66	70	112	113	Rd 95 x 1/6"	
80	81	85	127	117	Rd 110 x 1/4"	
100	100	104	148	120	Rd 130 x 1/4"	

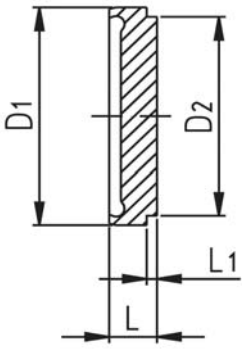
NW	D1	D2	L	L1	E	Male DIN 11864/1 11866 A Draadstuk DIN 11864/1 11866 A
10	10	13	41	27	Rd 28 x 1/8"	
15	16	19	41	27	Rd 34 x 1/8"	
20	20	23	43	26	Rd 44 x 1/6"	
25	26	29	43	26	Rd 52 x 1/6"	
32	32	35	48	32	Rd 58 x 1/6"	
40	38	41	48	31	Rd 65 x 1/6"	
50	50	53	48	30	Rd 78 x 1/6"	
65	66	70	60	40	Rd 95 x 1/6"	
80	81	85	64	40	Rd 110 x 1/4"	
100	100	104	64	40	Rd 130 x 1/4"	

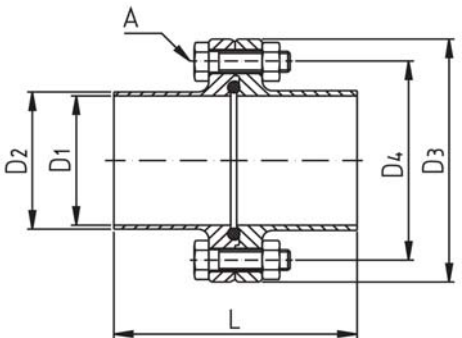
NW	D1	D2	D3	L	L1	Liner DIN 11864/1 11866 A Puntstuk DIN 11864/1 11866 A
10	10	13	21,9	39	27	
15	16	19	27,9	39	27	
20	20	23	35,9	38	26	
25	26	29	42,9	40	26	
32	32	35	48,9	47	32	
40	38	41	54,9	47	31	
50	50	53	66,9	48	30	
65	66	70	84,9	61	40	
80	81	85	98,9	61	40	
100	100	104	118,9	66	40	

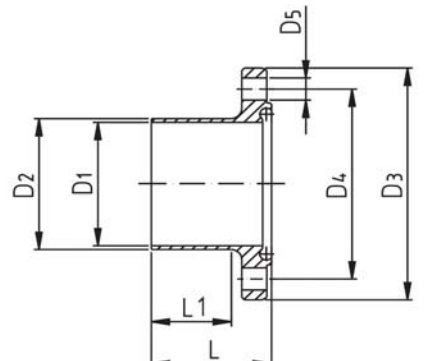
NW	D1	D2	L	L1	E	Nut DIN 11851 Wartelmoer DIN 11851
10	38	19	18	15	Rd 28 x 1/8"	
15	44	25	18	15	Rd 34 x 1/8"	
20	54	31	20	17	Rd 44 x 1/6"	
25	63	36	21	18	Rd 52 x 1/6"	
32	70	42	21	18	Rd 58 x 1/6"	
40	78	49	21	18	Rd 65 x 1/6"	
50	92	62	22	19	Rd 78 x 1/6"	
65	112	80	25	21	Rd 95 x 1/6"	
80	127	94	29	25	Rd 110 x 1/4"	
100	148	115	31	26	Rd 130 x 1/4"	

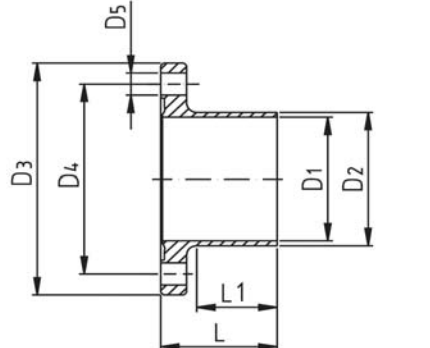
O-ring DIN 11864/1 11866 A	NW	D	S
O-ring DIN 11864/1 11866 A			
	10	12	3,5
	15	18	3,5
	20	22	3,5
	25	28	3,5
	32	34	5
	40	40	5
	50	52	5
	65	68	5
	80	83	5
	100	102	5
	125	127	5
	150	152	5

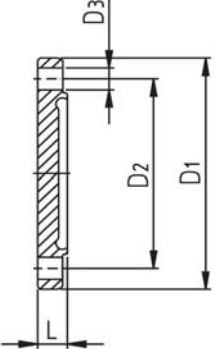
Male blank DIN 11864/1 11866 A	NW	D1	SW	L	L1	E
Blinddraadstuk DIN 11864/1 11866 A						
	10	22	19	22	10	Rd 28 x 1/8"
	15	25	22	22	10	Rd 34 x 1/8"
	20	25	22	24	10	Rd 44 x 1/6"
	25	34	27	24	10	Rd 52 x 1/6"
	32	34	27	24	10	Rd 58 x 1/6"
	40	34	27	24	10	Rd 65 x 1/6"
	50	34	27	24	10	Rd 78 x 1/6"
	65	34	27	26	10	Rd 95 x 1/6"
	80	34	27	30	10	Rd 110 x 1/4"
	100	34	27	30	10	Rd 130 x 1/4"

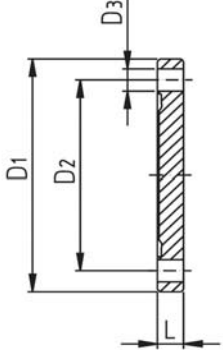
Liner blank DIN 11864/1 11866 A	NW	D1	D2	L	L1
Blindpuntstuk DIN 11864/1 11866 A					
	10	21,9	18	9	3
	15	27,9	24	9	3
	20	35,9	30	10	3
	25	42,9	35	12	3
	32	48,9	41	13	3
	40	54,9	48	13	3
	50	66,9	61	14	3
	65	84,9	79	16	4
	80	98,9	93	16	4
	100	118,9	114	20	5

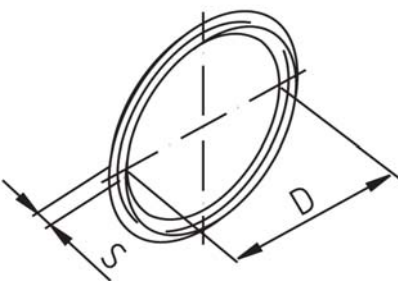
NW	D1	D2	D3	D4	L	A	Flange connection DIN 11864/2 11866 A Flensverbinding DIN 11864/2 11866 A
10	10	13	54	37	80	4/M8 x 30	
15	16	19	59	42	80	4/M8 x 30	
20	20	23	64	47	80	4/M8 x 30	
25	26	29	70	53	80	4/M8 x 30	
32	32	35	76	59	90	4/M8 x 30	
40	38	41	82	65	90	4/M8 x 30	
50	50	53	94	77	90	4/M8 x 30	
65	66	70	113	95	108	8/M8 x 30	
80	81	85	133	112	116	8/M10 x 35	
100	100	104	159	137	116	8/M10 x 40	
125	125	129	183	161	120	8/M10 x 40	
150	150	154	213	188	120	8/M12 x 50	

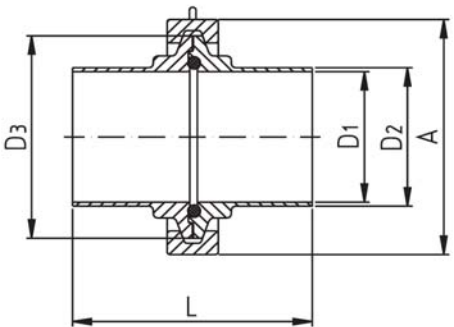
NW	D1	D2	D3	D4	L	L1	Nut flange DIN 11864/2 11866 A Nutflens DIN 11864/2 11866 A
10	10	13	54	37	41,5	26	
15	16	19	59	42	41,5	26	
20	20	23	64	47	41,5	26	
25	26	29	70	53	41,5	26	
32	32	35	76	59	46,5	31	
40	38	41	82	65	46,5	31	
50	50	53	94	77	46,5	31	
65	66	70	113	95	55,5	40	
80	81	85	133	112	59,5	42	
100	100	104	159	137	59,5	40	
125	125	129	183	161	61,5	42	
150	150	154	213	188	61,5	40	

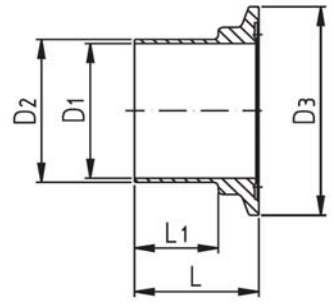
NW	D1	D2	D3	D4	L	L1	Liner flange DIN 11864/2 11866 A Bundflens DIN 11864/2 11866 A
10	10	13	54	37	40	26	
15	16	19	59	42	40	26	
20	20	23	64	47	40	26	
25	26	29	70	53	40	26	
32	32	35	76	59	45	31	
40	38	41	82	65	45	31	
50	50	53	94	77	45	31	
65	66	70	113	95	54	40	
80	81	85	133	112	58	42	
100	100	104	159	137	58	40	
125	125	129	183	161	60	42	
150	150	154	213	188	60	40	

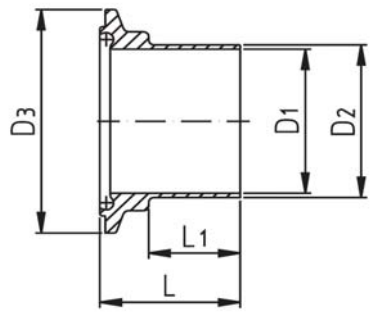
Blank nut flange DIN 11864/2 11866 A Blindnutfkens DIN 11864/2 11866 A	NW	D1	D2	D3	L
	10	54	37	4x Ø 9	11,5
	15	59	42	4x Ø 9	11,5
	20	64	47	4x Ø 9	11,5
	25	70	53	4x Ø 9	11,5
	32	76	59	4x Ø 9	11,5
	40	82	65	4x Ø 9	11,5
	50	94	77	4x Ø 9	11,5
	65	113	95	8x Ø 9	11,5
	80	133	112	8x Ø 11	13,5
	100	159	137	8x Ø 11	15,5
	125	183	161	8x Ø 11	15,5
	150	213	188	8x Ø 14	17,5

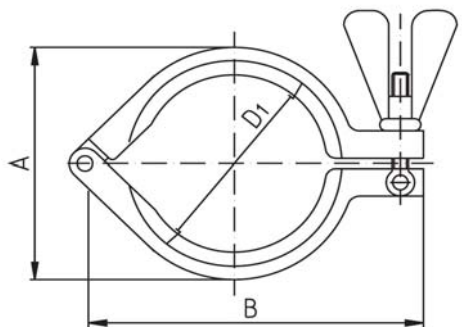
Blank liner flange DIN 11864/2 11866 A Blindbundfvens DIN 11864/2 11866 A	NW	D1	D2	D3	L
	10	54	37	4x Ø 9	10
	15	59	42	4x Ø 9	10
	20	64	47	4x Ø 9	10
	25	70	53	4x Ø 9	10
	32	76	59	4x Ø 9	10
	40	82	65	4x Ø 9	10
	50	94	77	4x Ø 9	10
	65	113	95	8x Ø 9	10
	80	133	112	8x Ø 11	12
	100	159	137	8x Ø 11	14
	125	183	161	8x Ø 11	14
	150	213	188	8x Ø 14	16

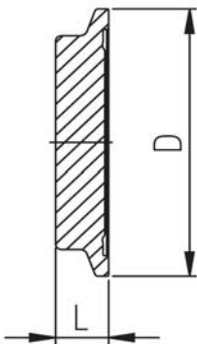
O-ring DIN 11864/1 11866 A O-ring DIN 11864/1 11866 A	NW	D	S
	10	12	3,5
	15	18	3,5
	20	22	3,5
	25	28	3,5
	32	34	5
	40	40	5
	50	52	5
	65	68	5
	80	83	5
	100	102	5
	125	127	5
	150	152	5

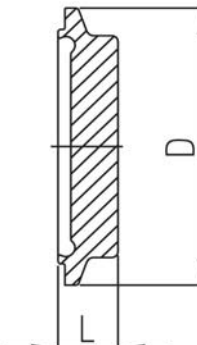
NW	D1	D2	D3	A	L	Clamp connection DIN 11864/3 11866 A Klemverbinding DIN 11864/3 11866 A
10	10	13	34	45	76	
15	16	19	34	45	76	
20	20	23	50,5	64	76	
25	26	29	50,5	64	77	
32	32	35	50,5	64	88	
40	38	41	64	77	88	
50	50	53	77,5	91	89	
65	66	70	91	104	113	
80	81	85	106	119	117	
100	100	104	130	143	120	

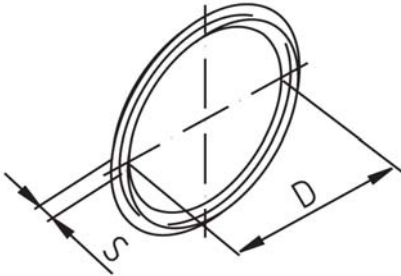
NW	D1	D2	D3	L	L1	Clamp liner DIN 11864/3 11866 A Bundferrule DIN 11864/3 11866 A
10	10	13	34	38	26	
15	16	19	34	38	26	
20	20	23	50,5	38	26	
25	26	29	50,5	38,5	28	
32	32	35	50,5	44	30	
40	38	41	64	44	30	
50	50	53	77,5	44,5	30	
65	66	70	91	56,5	40	
80	81	85	106	58,5	40	
100	100	104	130	60	40	

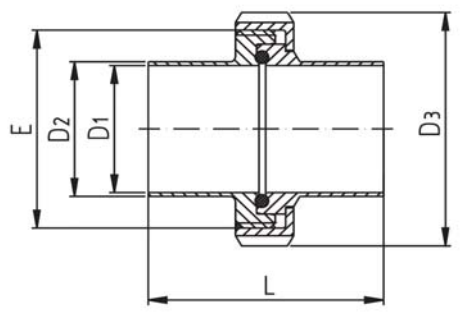
NW	D1	D2	D3	L	L1	Clamp Nut DIN 11864/3 11866 A Nutferrule DIN 11864/3 11866 A
10	10	13	34	39,5	26	
15	16	19	34	39,5	26	
20	20	23	50,5	39,5	24	
25	26	29	50,5	40	28	
32	32	35	50,5	45,5	30	
40	38	41	64	45,5	30	
50	50	53	77,5	46	30	
65	66	70	91	58	40	
80	81	85	106	60	40	
100	100	104	130	61,5	40	

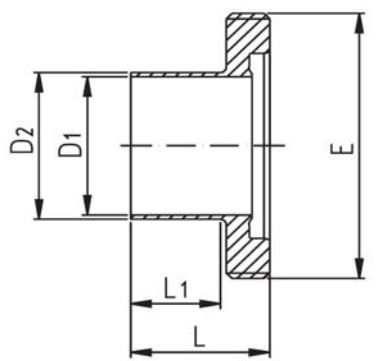
NW	A	B	D1	Heavy duty clamp Clampbeugel 2 delig zwaar
10	45	63	34	
15	45	63	34	
20	64	88	50,5	
25	64	88	50,5	
32	64	88	50,5	
40	77	105	64	
50	91	123	77,5	
65	104	137	91	
80	119	155	106	
100	143	168	130	

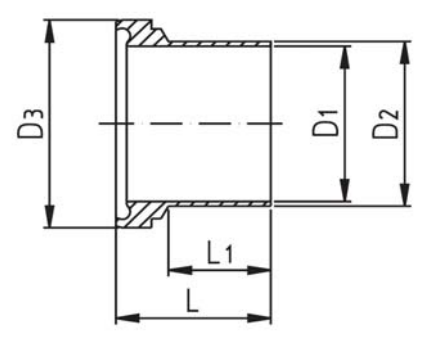
<i>Blind cap DIN 11864/3 11866 A</i> <i>Blindbunderule DIN 11864/3 11866 A</i>	NW	D	L
	10	34	8
	15	34	8
	20	50,5	8
	25	50,5	8
	32	50,5	8
	40	64	8
	50	77,5	8
	65	91	8
	80	106	8
	100	130	8

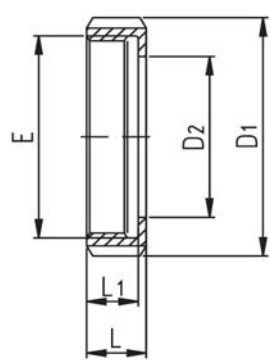
<i>Blind clamp DIN 11864/3 11866 A</i> <i>Blindnutferrule DIN 11864/3 11866 A</i>	NW	D	L
	10	34	10
	15	34	10
	20	50,5	10
	25	50,5	10
	32	50,5	10
	40	64	10
	50	77,5	10
	65	91	10
	80	106	10
	100	130	10

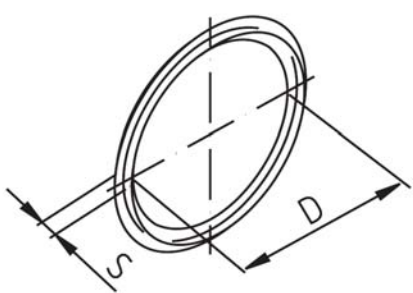
<i>O-ring DIN 11864/1 11866 A</i> <i>O-ring DIN 11864/1 11866 A</i>	NW	D	S
	10	12	3,5
	15	18	3,5
	20	22	3,5
	25	28	3,5
	32	34	5
	40	40	5
	50	52	5
	65	68	5
	80	83	5
	100	102	5
	125	127	5
	150	152	5

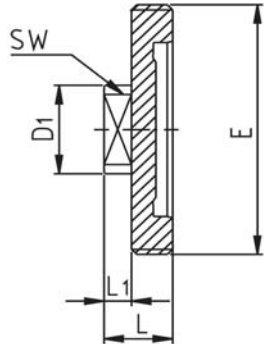
NW	D1	D2	D3	L	E	Union DIN 11864/1 11866 C Koppeling DIN 11864/1 11866 C
1/2"	9,4	12,7	38	76	Rd 28 x 1/8"	
3/4"	15,75	19,05	44	76	Rd 34 x 1/8"	
1"	22,1	25,4	63	77	Rd 52 x 1/6"	
1,5"	34,8	38,1	78	88	Rd 65 x 1/6"	
2"	47,5	50,8	92	89	Rd 78 x 1/6"	
2,5"	60,2	63,5	112	115	Rd 95 x 1/6"	
3"	72,9	76,2	127	117	Rd 110 x 1/4"	
4"	97,38	101,6	148	119	Rd 130 x 1/4"	

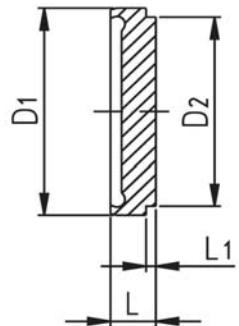
NW	D1	D2	L	L1	E	Male DIN 11864/1 11866 C Draadstuk DIN 11864/1 11866 C
1/2"	9,4	12,7	41	27	Rd 28 x 1/8"	
3/4"	15,75	19,05	41	27	Rd 34 x 1/8"	
1"	22,1	25,4	43	26	Rd 52 x 1/6"	
1,5"	34,8	38,1	48,5	30	Rd 65 x 1/6"	
2"	47,5	50,8	48,5	30	Rd 78 x 1/6"	
2,5"	60,2	63,5	60	40	Rd 95 x 1/6"	
3"	72,9	76,2	64	40	Rd 110 x 1/4"	
4"	97,38	101,6	64	40	Rd 130 x 1/4"	

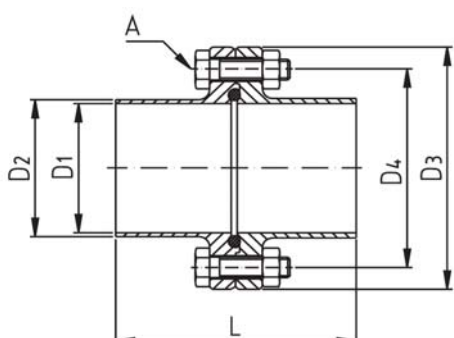
NW	D1	D2	D3	L	L1	Liner DIN 11864/1 11866 C Puntstuk DIN 11864/1 11866 C
1/2"	9,4	12,7	21,9	39	27	
3/4"	15,75	19,05	27,9	39	27	
1"	22,1	25,4	42,9	40	26	
1,5"	34,8	38,1	54,9	46,5	30	
2"	47,5	50,8	66,9	47,5	30	
2,5"	60,2	63,5	84,9	63	40	
3"	72,9	76,2	98,9	61	40	
4"	97,38	101,6	118,9	65	40	

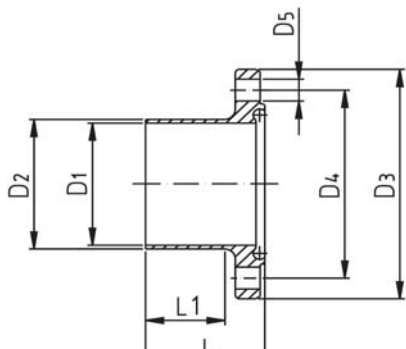
NW	D1	D2	L	L1	E	Nut DIN11851 Wartelmoer DIN 11851
1/2"	38	19	18	15	Rd 28 x 1/8"	
3/4"	44	25	18	15	Rd 34 x 1/8"	
1"	63	36	21	18	Rd 52 x 1/6"	
1,5"	78	49	21	18	Rd 65 x 1/6"	
2"	92	62	22	19	Rd 78 x 1/6"	
2,5"	112	80	25	21	Rd 95 x 1/6"	
3"	127	94	29	25	Rd 110 x 1/4"	
4"	148	115	31	26	Rd 130 x 1/4"	

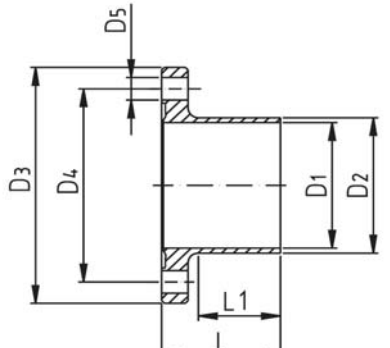
O-ring DIN 11864/1 DIN 11866 C	NW	D	S
O-ring DIN 11864/1 11866 C			
			
1/2"	12	3,5	
3/4"	18	3,5	
1"	24	3,5	
1,5"	37	5	
2"	50	5	
2,5"	62	5	
3"	75	5	
4"	100	5	

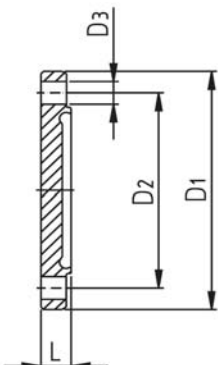
Male blank DIN 11864/1 11866 C	NW	D1	SW	L	L1	E	
Blinddraadstuk DIN 11864/1 11866 C							
	1/2"	34	27	22	10	Rd 28 x 1/8"	
	3/4"	34	27	22	10	Rd 34 x 1/8"	
	1"	34	27	24	10	Rd 52 x 1/6"	
	1,5"	34	27	24	10	Rd 65 x 1/6"	
	2"	34	27	24	10	Rd 78 x 1/6"	
	2,5"	34	27	26	10	Rd 95 x 1/6"	
	3"	34	27	30	10	Rd 110 x 1/4"	
	4"	34	27	30	10	Rd 130 x 1/4"	

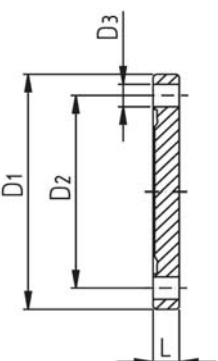
Liner blank DIN 11864/1 11866 C	NW	D1	D2	L	L1
Blindpuntstuk DIN 11864/1 11866 C					
					
1/2"	21,9	18	9	3	
3/4"	27,9	24	9	3	
1"	42,9	35	12	3	
1,5"	54,9	48	13	3	
2"	66,9	61	14	3	
2,5"	84,9	79	16	4	
3"	98,9	93	16	4	
4"	118,9	114	20	5	

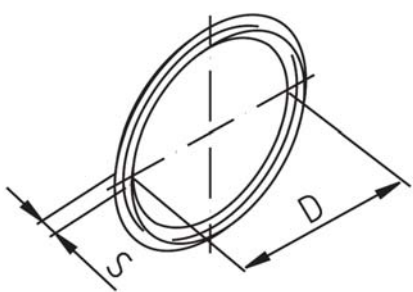
NW	D1	D2	D3	D4	L	A	Flange connection DIN 11864/2 11866 C Flensverbinding DIN 11864/2 11866 C
1/2"	9,4	12,7	54	37	80	4/M8 x 30	
3/4"	15,75	19,05	59	42	80	4/M8 x 30	
1"	22,1	25,4	66	49	80	4/M8 x 30	
1,5"	34,8	38,1	79	62	90	4/M8 x 30	
2"	47,5	50,8	92	75	90	4/M8 x 30	
2,5"	60,2	63,5	107	89	108	8/M8 x 30	
3"	72,9	76,2	125	104	112	8/M10 x 30	
4"	97,38	101,6	157	135	116	8/M10 x 35	

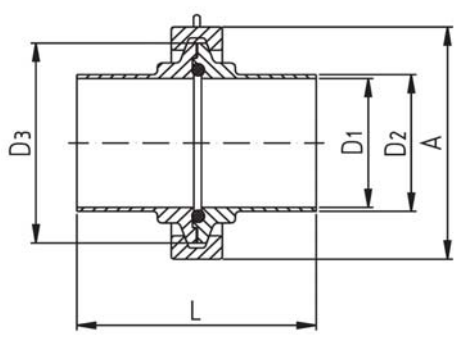
NW	D1	D2	D3	D4	L	L1	Nut flange 11864/2 11866 C Nutflens DIN 11864/2 11866 C
1/2"	9,4	12,7	54	37	41,5	26	
3/4"	15,75	19,05	59	42	41,5	26	
1"	22,1	25,4	66	49	41,5	26	
1,5"	34,8	38,1	79	62	46,5	31	
2"	47,5	50,8	92	75	46,5	31	
2,5"	60,2	63,5	107	89	55,5	40	
3"	72,9	76,2	125	104	57,5	40	
4"	97,38	101,6	157	135	59,5	40	

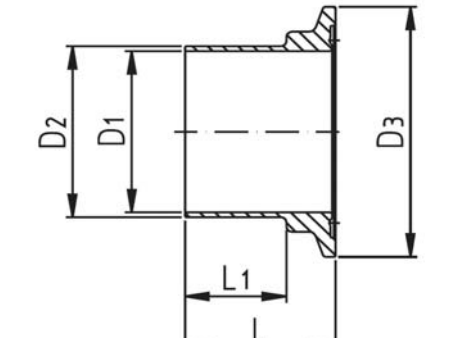
NW	D1	D2	D3	D4	L	L1	Liner flange 11864/2 11866 C Bundflens DIN 11864/2 11866 C
1/2"	9,4	12,7	54	37	40	26	
3/4"	15,75	19,05	59	42	40	26	
1"	22,1	25,4	66	49	40	26	
1,5"	34,8	38,1	79	62	45	31	
2"	47,5	50,8	92	75	45	31	
2,5"	60,2	63,5	107	89	54	40	
3"	72,9	76,2	125	104	56	40	
4"	97,38	101,6	157	135	58	40	

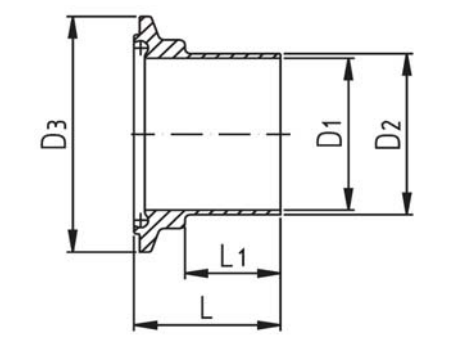
Blank nut flange DIN 11864/2 11866 C Blindnutfkens DIN 11864/2 11866 C	NW	D1	D2	D3	L
	1/2"	54	37	4x Ø 9	11,5
	3/4"	59	42	4x Ø 9	11,5
	1"	66	49	4x Ø 9	11,5
	1,5"	79	62	4x Ø 9	11,5
	2"	92	75	4x Ø 9	11,5
	2,5"	107	89	8x Ø 9	11,5
	3"	125	104	8x Ø 11	13,5
	4"	157	135	8x Ø 11	15,5

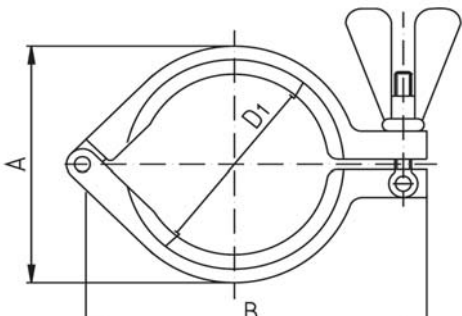
Blank liner flange DIN 11864/2 11866 C Blindbundflens DIN 11864/2 11866 C	NW	D1	D2	D3	L
	1/2"	54	37	4x Ø 9	10
	3/4"	59	42	4x Ø 9	10
	1"	66	49	4x Ø 9	10
	1,5"	79	62	4x Ø 9	10
	2"	92	75	4x Ø 9	10
	2,5"	107	89	8x Ø 9	10
	3"	125	104	8x Ø 11	12
	4"	157	135	8x Ø 11	14

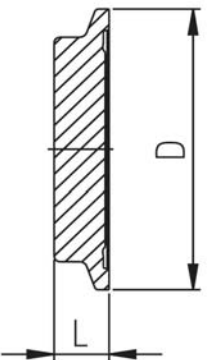
O-ring DIN 11864/1 DIN 11866 C O-ring DIN 11864/1 11866 C	NW	D	S
	1/2"	12	3,5
	3/4"	18	3,5
	1"	24	3,5
	1,5"	37	5
	2"	50	5
	2,5"	62	5
	3"	75	5
	4"	100	5

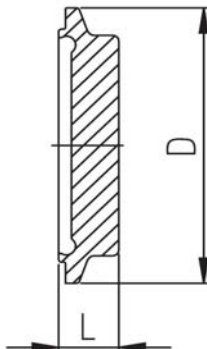
NW	D1	D2	D3	A	L	Clamp connection DIN 11864/3 11866 C Klemverbinding DIN 11864/3 11866 C
1/2"	9,4	12,7	34	45	76	
3/4"	15,75	19,05	34	45	76	
1"	22,1	25,4	50,5	64	76	
1,5"	34,8	38,1	64	77	77	
2"	47,5	50,8	77,5	91	88	
2,5"	60,2	63,5	91	104	88	
3"	72,9	76,2	106	119	89	
4"	97,38	101,6	130	143	113	

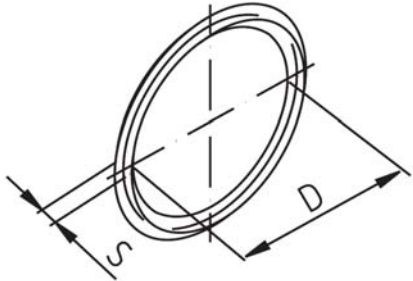
NW	D1	D2	D3	L	L1	Clamp liner DIN 11864/3 11866 C Bundferrule DIN 11864/3 11866 C
1/2"	9,4	12,7	34	38	26	
3/4"	15,75	19,05	34	38	26	
1"	22,1	25,4	50,5	38,5	28	
1,5"	34,8	38,1	64	44	30	
2"	47,5	50,8	77,5	44,5	30	
2,5"	60,2	63,5	91	57,5	40	
3"	72,9	76,2	106	58,5	40	
4"	97,38	101,6	130	59,5	40	

NW	D1	D2	D3	L	L1	Clamp Nut DIN 11864/3 11866 C Nutferrule DIN 11864/3 11866 C
1/2"	9,4	12,7	34	39,5	26	
3/4"	15,75	19,05	34	39,5	26	
1"	22,1	25,4	50,5	40	28	
1,5"	34,8	38,1	64	45,5	30	
2"	47,5	50,8	77,5	46	30	
2,5"	60,2	63,5	91	59	40	
3"	72,9	76,2	106	60	40	
4"	97,38	101,6	130	61	40	

NW	A	B	D1	Heavy duty clamp Clampbeugel 2 delig zwaar
1/2"	45	63	34	
3/4"	45	63	34	
1"	64	88	50,5	
1,5"	77	105	64	
2"	91	123	77,5	
2,5"	104	137	91	
3"	119	155	106	
4"	143	178	130	

<i>Blind cap DIN 11864/3 11866 C</i> <i>Blindbunderule DIN 11864/3 11866 C</i>	NW	D	L
	1/2"	34	8
	3/4"	34	8
	1"	50,5	8
	1,5"	64	8
	2"	77,5	8
	2,5"	91	8
	3"	106	8
	4"	130	8

<i>Blind clamp DIN 11864/3 11866 C</i> <i>Blindnutferrule Din 11864/3 11866 C</i>	NW	D	L
	1/2"	34	10
	3/4"	34	10
	1"	50,5	10
	1,5"	64	10
	2"	77,5	10
	2,5"	91	10
	3"	106	10
	4"	130	10

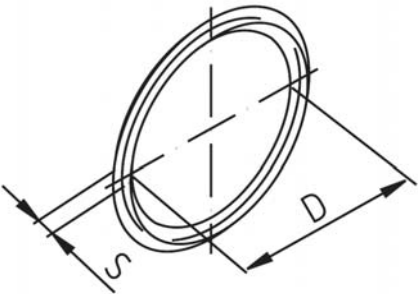
<i>O-ring DIN 11864/1 DIN 11866 C</i> <i>O-ring DIN 11864/1 11866 C</i>	NW	D	S
	1/2"	12	3,5
	3/4"	18	3,5
	1"	24	3,5
	1,5"	37	5
	2"	50	5
	2,5"	62	5
	3"	75	5
	4"	100	5

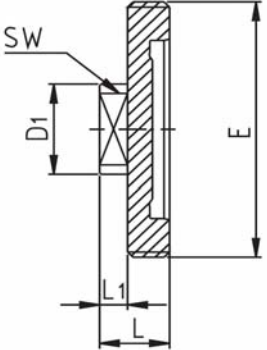
NW	D1	D2	D3	L	E	Union DIN 11864/1 11866 E Koppeling DIN 11864/1 11866 B
8	10,3	13,5	38	76	Rd 28 x 1/8"	
10	14,0	17,2	44	76	Rd 34 x 1/8"	
15	18,1	21,3	54	78	Rd 44 x 1/6"	
20	23,7	26,9	63	78	Rd 52 x 1/6"	
25	29,7	33,7	70	88	Rd 58 x 1/6"	
32	38,4	42,4	78	88	Rd 65 x 1/6"	
40	44,3	48,3	92	90	Rd 78 x 1/6"	
50	56,3	60,3	112	114	Rd 95 x 1/6"	
65	72,1	76,1	127	117	Rd 110 x 1/4"	
80	84,3	88,9	148	122	Rd 130 x 1/4"	

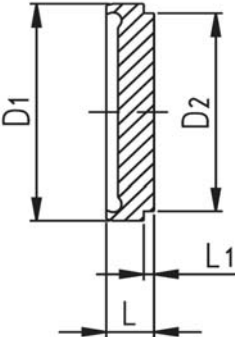
NW	D1	D2	L	L1	E	Male DIN 11864/1 11866 B Draadstuk DIN 11864/1 11866 B
8	10,3	13,5	41	27	Rd 28 x 1/8"	
10	14,0	17,2	41	27	Rd 34 x 1/8"	
15	18,1	21,3	43	27	Rd 44 x 1/6"	
20	23,7	26,9	43	27	Rd 52 x 1/6"	
25	29,7	33,7	48	32	Rd 58 x 1/6"	
32	38,4	42,4	48	32	Rd 65 x 1/6"	
40	44,3	48,3	49	31	Rd 78 x 1/6"	
50	56,3	60,3	60	40	Rd 95 x 1/6"	
65	72,1	76,1	64	40	Rd 110 x 1/4"	
80	84,3	88,9	64	40	Rd 130 x 1/4"	

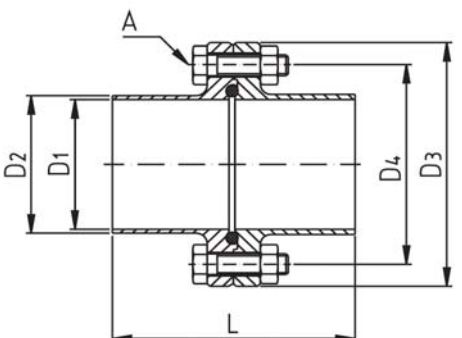
NW	D1	D2	D3	L	L1	Liner DIN 11864/1 11866 E Puntstuk DIN 11864/1 11866 B
8	10,3	13,5	21,9	39	27	
10	14,0	17,2	27,9	39	27	
15	18,1	21,3	35,9	40	27	
20	23,7	26,9	42,9	41	27	
25	29,7	33,7	48,9	47	32	
32	38,4	42,4	54,9	47	32	
40	44,3	48,3	66,9	48	31	
50	56,3	60,3	84,9	62	40	
65	72,1	76,1	98,9	61	40	
80	84,3	88,9	118,9	68	40	

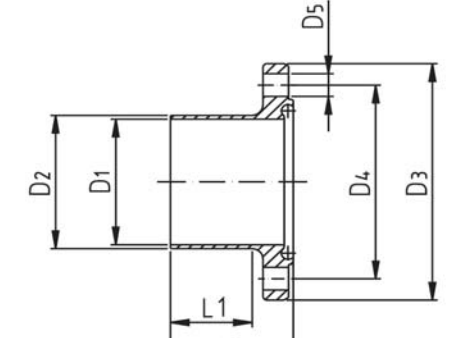
NW	D1	D2	L	L1	E	Nut DIN11851 Wartelmoer DIN 11851
8	38	19	18	15	Rd 28 x 1/8"	
10	44	25	18	15	Rd 34 x 1/8"	
15	54	31	20	17	Rd 44 x 1/6"	
20	63	36	21	18	Rd 52 x 1/6"	
25	70	42	21	18	Rd 58 x 1/6"	
32	78	49	21	18	Rd 65 x 1/6"	
40	92	62	22	19	Rd 78 x 1/6"	
50	112	80	25	21	Rd 95 x 1/6"	
65	127	94	29	25	Rd 110 x 1/4"	
80	148	115	31	26	Rd 130 x 1/4"	

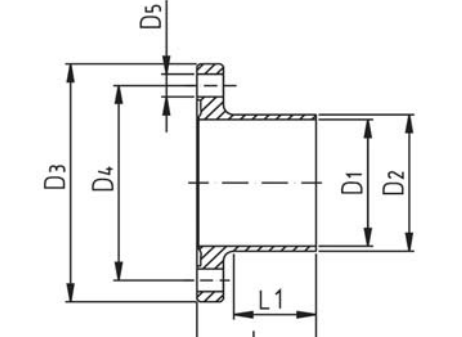
O-ring DIN 11864/1 11866 E	NW	D	S
O-ring DIN 11864/1 11866 B			
	8	12	3,5
	10	16	3,5
	15	20	3,5
	20	26	3,5
	25	32	5
	32	40,5	5
	40	46,5	5
	50	58,5	5
	65	73,5	5
	80	86,5	5

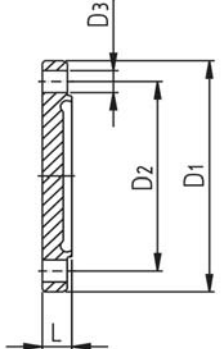
Male blank DIN 11864/1 11866 B	NW	D1	SW	L	L1	E
Blinddraadstuk DIN 11864/1 11866 B						
	8	25	22	22	10	Rd 28 x 1/8"
	10	25	22	22	10	Rd 34 x 1/8"
	15	25	22	24	10	Rd 44 x 1/6"
	20	34	27	24	10	Rd 52 x 1/6"
	25	34	27	24	10	Rd 58 x 1/6"
	32	34	27	24	10	Rd 65 x 1/6"
	40	34	27	24	10	Rd 78 x 1/6"
	50	34	27	26	10	Rd 95 x 1/6"
	65	34	27	30	10	Rd 110 x 1/4"
	80	34	27	30	10	Rd 130 x 1/4"

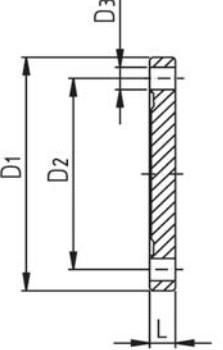
Liner blank DIN 11864/1 11866 B	NW	D1	D2	L	L1
Blindpuntstuk DIN 11864/1 11866 B					
	8	21,9	18	10	3
	10	27,9	24	10	3
	15	35,9	30	10	3
	20	42,9	35	12	3
	25	48,9	41	13	3
	32	54,9	48	13	3
	40	66,9	61	14	3
	50	84,9	79	16	4
	65	98,9	93	16	4
	80	118,9	114	20	5

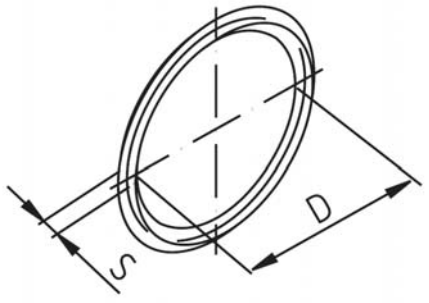
NW	D1	D2	D3	D4	L	A	Flange connection DIN 11864/2 11866 E Flensverbinding DIN 11864/2 11866 B
8	10,3	13,5	54	37	80	4/M8 x 30	
10	14,0	17,2	59	42	80	4/M8 x 30	
15	18,1	21,3	62	45	80	4/M8 x 30	
20	23,7	26,9	69	52	80	4/M8 x 30	
25	29,7	33,7	74	57	90	4/M8 x 30	
32	38,4	42,4	82	65	90	4/M8 x 30	
40	44,3	48,3	88	71	90	4/M8 x 30	
50	56,3	60,3	103	85	108	4/M8 x 30	
65	72,1	76,1	125	104	112	8/M10 x 30	
80	84,3	88,9	137	116	116	8/M10 x 35	

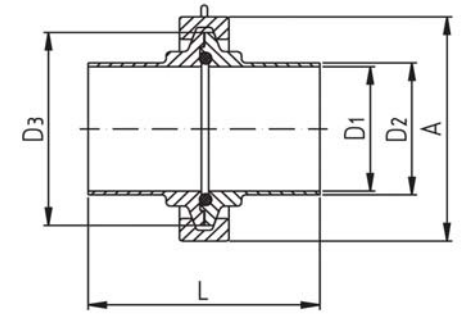
NW	D1	D2	D3	D4	L	L1	Nut flange DIN 11864/2 11866 Nutflens DIN 11864/2 11866 B
8	10,3	13,5	54	37	41,5	26	
10	14,0	17,2	59	42	41,5	26	
15	18,1	21,3	62	45	41,5	26	
20	23,7	26,9	69	52	41,5	26	
25	29,7	33,7	74	57	46,5	31	
32	38,4	42,4	82	65	46,5	31	
40	44,3	48,3	88	71	46,5	31	
50	56,3	60,3	103	85	55,5	40	
65	72,1	76,1	125	104	57,5	40	
80	84,3	88,9	137	116	59,5	42	

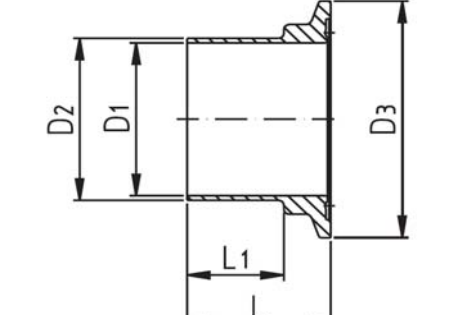
NW	D1	D2	D3	D4	L	L1	Clamp liner DIN 11864/2 11866 E Bundferrule DIN 11864/2 11866 B
8	10,3	13,5	54	37	40	26	
10	14,0	17,2	59	42	40	26	
15	18,1	21,3	62	45	40	26	
20	23,7	26,9	69	52	40	26	
25	29,7	33,7	74	57	45	31	
32	38,4	42,4	82	65	45	31	
40	44,3	48,3	88	71	45	31	
50	56,3	60,3	103	85	54	40	
65	72,1	76,1	125	104	56	40	
80	84,3	88,9	137	116	58	42	

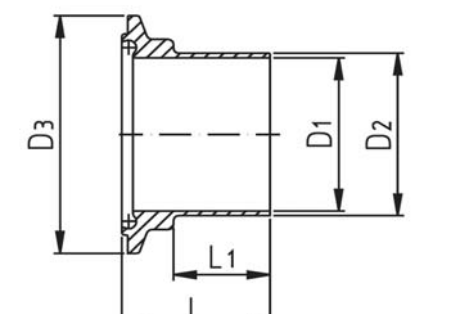
Blank nut flange DIN 11864/2 11866 E Blindnutfkens DIN 11864/2 11866 B	NW	D1	D2	D3	L
	8	54	37	4x Ø 9	11,5
	10	59	42	4x Ø 9	11,5
	15	62	45	4x Ø 9	11,5
	20	69	52	4x Ø 9	11,5
	25	74	57	4x Ø 9	11,5
	32	82	65	4x Ø 9	11,5
	40	88	71	4x Ø 9	11,5
	50	103	85	4x Ø 9	11,5
	65	125	104	8x Ø 11	13,5
	80	137	116	8x Ø 11	13,5

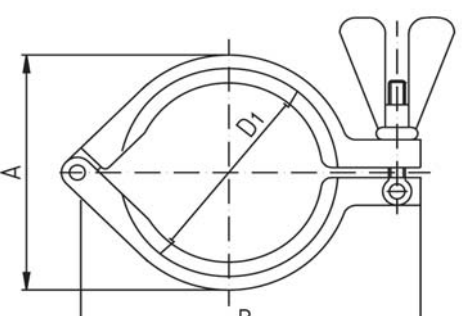
Blank liner flange DIN 11864/2 11866 E Blindbundflens DIN 11864/2 11866 B	NW	D1	D2	D3	L
	8	54	37	4x Ø 9	10
	10	59	42	4x Ø 9	10
	15	62	45	4x Ø 9	10
	20	69	52	4x Ø 9	10
	25	74	57	4x Ø 9	10
	32	82	65	4x Ø 9	10
	40	88	71	4x Ø 9	10
	50	103	85	4x Ø 9	10
	65	125	104	8x Ø 11	12
	80	137	116	8x Ø 11	12

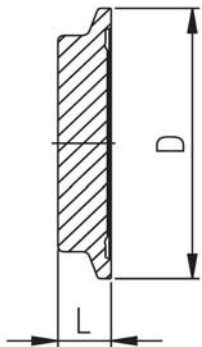
O-ring DIN 11864/1 11866 E O-ring DIN 11864/1 11866 B	NW	D	S
	8	12	3,5
	10	16	3,5
	15	20	3,5
	20	26	3,5
	25	32	5
	32	40,5	5
	40	46,5	5
	50	58,5	5
	65	73,5	5
	80	86,5	5

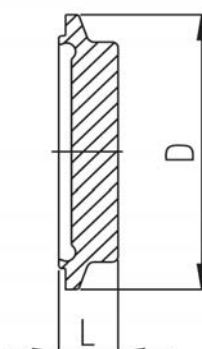
NW	D1	D2	D3	A	L	Clamp connection DIN 11864/3 11866 B Klemverbinding DIN 11864/3 11866 B
8	10,3	13,5	34	45	76	
10	14,0	17,2	34	45	76	
15	18,1	21,3	34	45	78	
20	23,7	26,9	50,5	64	78	
25	29,7	33,7	50,5	64	88	
32	38,4	42,4	64	77	88	
40	44,3	48,3	64	77	90	
50	56,3	60,3	91	104	114	
65	72,1	76,1	106	119	117	
80	84,3	88,9	119	132	122	

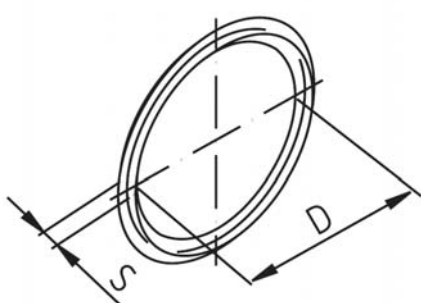
NW	D1	D2	D3	L	L1	Clamp liner DIN 11864/3 11866 B Bundferrule DIN 11864/3 11866 B
8	10,3	13,5	34	38	26	
10	14,0	17,2	34	38	26	
15	18,1	21,3	34	38	26	
20	23,7	26,9	50,5	38	26	
25	29,7	33,7	50,5	38,5	28	
32	38,4	42,4	64	44	30	
40	44,3	48,3	64	44	30	
50	56,3	60,3	91	44,5	30	
65	72,1	76,1	106	56,5	40	
80	84,3	88,9	119	58,5	40	

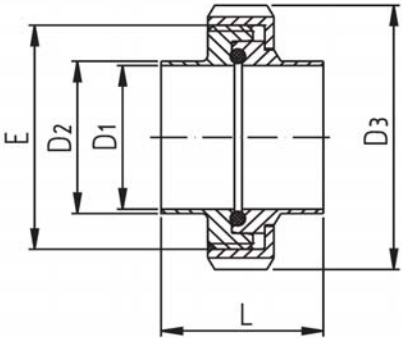
NW	D1	D2	D3	L	L1	Clamp Nut DIN 11864/3 11866 B Nutferrule DIN 11864/3 11866 B
8	10,3	13,5	34	39,5	26	
10	14,0	17,2	34	39,5	26	
15	18,1	21,3	34	40,5	26	
20	23,7	26,9	50,5	40	26	
25	29,7	33,7	50,5	45,5	28	
32	38,4	42,4	64	45,5	30	
40	44,3	48,3	64	46,5	30	
50	56,3	60,3	91	58,5	30	
65	72,1	76,1	106	60	40	
80	84,3	88,9	119	62,5	40	

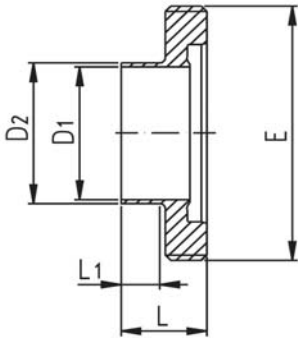
NW	A	B	D1	Heavy duty clamp Clampbeugel 2 delig zwaar
8	45	63	34	
10	45	63	34	
15	45	63	34	
20	64	88	50,5	
25	64	88	50,5	
32	77	105	64	
40	77	105	64	
50	104	137	91	
65	119	155	106	
80	132	168	119	

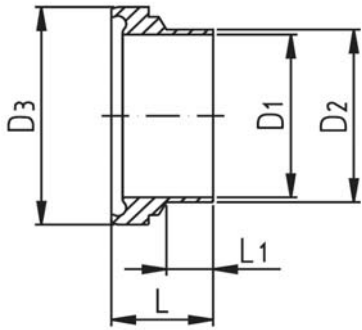
<i>Blind cap DIN 11864/3 11866 E</i> <i>Blindbunderule DIN 11864/3 11866 B</i>	NW	D	L
	8	34	8
	10	34	8
	15	34	8
	20	50,5	8
	25	50,5	8
	32	64	8
	40	64	8
	50	91	8
	65	106	8
	80	119	8

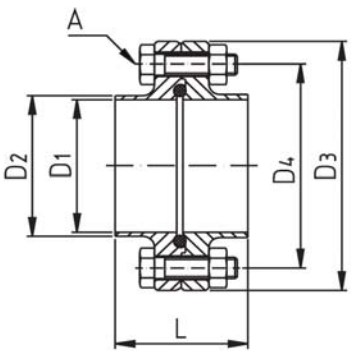
<i>Blind clamp DIN 11864/3 11866 B</i> <i>Blindnutferrule DIN 11864/3 11866 B</i>	NW	D	L
	8	34	10
	10	34	10
	15	34	10
	20	50,5	10
	25	50,5	10
	32	64	10
	40	64	10
	50	91	10
	65	106	10
	80	119	10

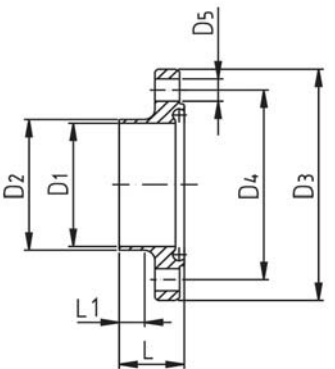
<i>O-ring DIN 11864/1 11866 E</i> <i>O-ring DIN 11864/1 11866 B</i>	NW	D	S
	8	12	3,5
	10	16	3,5
	15	20	3,5
	20	26	3,5
	25	32	5
	32	40,5	5
	40	46,5	5
	50	58,5	5
	65	73,5	5
	80	86,5	5

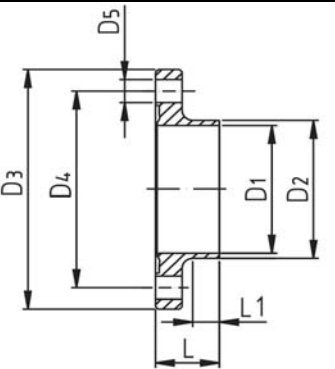
NW	D1	D2	D3	L	E	Union DIN 11853/1 11850 (2) Koppeling DIN 11853/1 11850 (2)
10	10	13	38	32	Rd 28 x 1/8"	
15	16	19	44	32	Rd 34 x 1/8"	
20	20	23	54	34	Rd 44 x 1/6"	
25	26	29	63	42	Rd 52 x 1/6"	
32	32	35	70	48	Rd 58 x 1/6"	
40	38	41	78	50	Rd 65 x 1/6"	
50	50	53	92	54	Rd 78 x 1/6"	
65	66	70	112	62	Rd 95 x 1/6"	
80	81	85	127	72	Rd 110 x 1/4"	
100	100	104	148	86	Rd 130 x 1/4"	

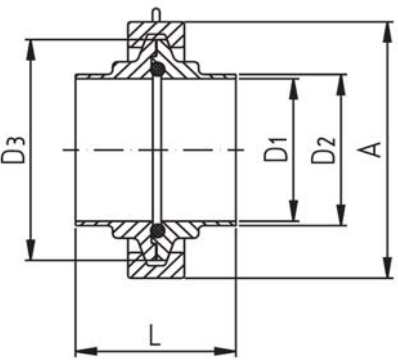
NW	D1	D2	L	L1	E	Male DIN 11853/1 11850 (2) Draadstuk DIN 11853/1 11850 (2)
10	10	13	19	5	Rd 28 x 1/8"	
15	16	19	19	5	Rd 34 x 1/8"	
20	20	23	21	5	Rd 44 x 1/6"	
25	26	29	26	10	Rd 52 x 1/6"	
32	32	35	30	14	Rd 58 x 1/6"	
40	38	41	31	15	Rd 65 x 1/6"	
50	50	53	31	15	Rd 78 x 1/6"	
65	66	70	36	16	Rd 95 x 1/6"	
80	81	85	42	18	Rd 110 x 1/4"	
100	100	104	50	26	Rd 130 x 1/4"	

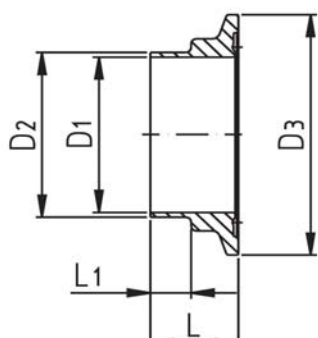
NW	D1	D2	D3	L	L1	Liner DIN 11853/1 11850 (2) Puntstuk DIN 11853/1 11850 (2)
10	10	13	21,9	17	5	
15	16	19	27,9	17	5	
20	20	23	35,9	18	5	
25	26	29	42,9	22	8	
32	32	35	48,9	25	10	
40	38	41	54,9	26	10	
50	50	53	66,9	30	13	
65	66	70	84,9	34	15	
80	81	85	98,9	38	15	
100	100	104	118,9	46	23	

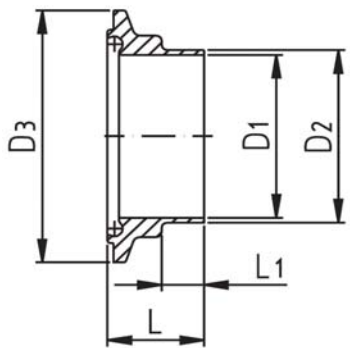
Flange connection DIN 11853/2 11850 (2) Flenverbinding DIN 11853/2 11850 (2)	NW	D1	D2	D3	D4	L	A
	10	10	13	54	37	48	4/M8 x 30
	15	16	19	59	42	48	4/M8 x 30
	20	20	23	64	47	48	4/M8 x 30
	25	26	29	70	53	48	4/M8 x 30
	32	32	35	76	59	48	4/M8 x 30
	40	38	41	82	65	48	4/M8 x 30
	50	50	53	94	77	48	4/M8 x 30
	65	66	70	113	95	48	8/M8 x 30
	80	81	85	133	112	52	8/M10 x 35
	100	100	104	159	137	52	8/M10 x 40
	125	125	129	183	161	56	8/M10 x 40
	150	150	154	213	188	56	8/M12 x 50

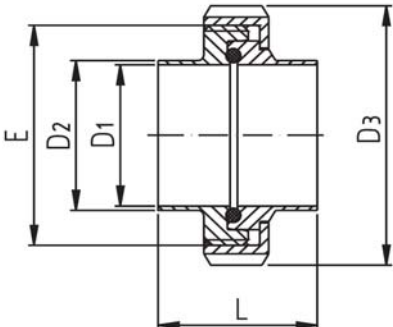
Nut flange DIN 11853/2 11850 (2) Nutflens DIN 11853/2 11850 (2)	NW	D1	D2	D3	D4	L	L1
	10	10	13	54	37	25,5	10
	15	16	19	59	42	25,5	10
	20	20	23	64	47	25,5	10
	25	26	29	70	53	25,5	10
	32	32	35	76	59	25,5	10
	40	38	41	82	65	25,5	10
	50	50	53	94	77	25,5	10
	65	66	70	113	95	25,5	10
	80	81	85	133	112	27,5	10
	100	100	104	159	137	27,5	10
	125	125	129	183	161	29,5	10
	150	150	154	213	188	29,5	8

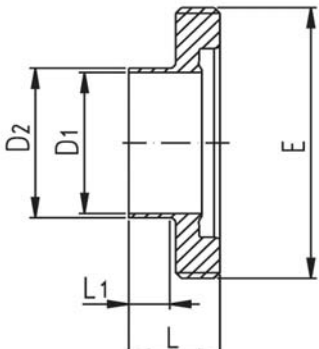
Liner flange DIN 11853/2 11850 (2) Bundflens DIN 11853/2 11850 (2)	NW	D1	D2	D3	D4	L	L1
	10	10	13	54	37	24	10
	15	16	19	59	42	24	10
	20	20	23	64	47	24	10
	25	26	29	70	53	24	10
	32	32	35	76	59	24	10
	40	38	41	82	65	24	10
	50	50	53	94	77	24	10
	65	66	70	113	95	24	10
	80	81	85	133	112	36	10
	100	100	104	159	137	26	10
	125	125	129	183	161	28	10
	150	150	154	213	188	28	8

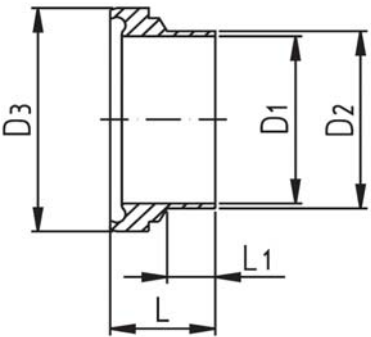
NW	D1	D2	D3	A	L	Clamp connection DIN 11853/3 11850 (2) Klemverbindung DIN 11853/3 11850 (2)
10	10	13	34	45	34	
15	16	19	34	45	45	
20	20	23	50,5	64	64	
25	26	29	50,5	64	64	
32	32	35	50,5	64	64	
40	38	41	64	77	77	
50	50	53	77,5	91	91	
65	66	70	91	104	104	
80	81	85	106	119	119	
100	100	104	130	143	132	

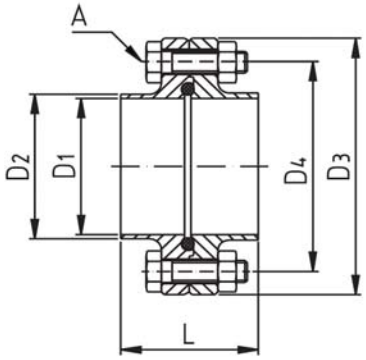
NW	D1	D2	D3	L	L1	Clamp liner DIN 11853/3 11850 (2) Bundferrule DIN 11853/3 11850 (2)
10	10	13	34	17	5	
15	16	19	34	17	5	
20	20	23	50,5	17	5	
25	26	29	50,5	18,5	8	
32	32	35	50,5	24	10	
40	38	41	64	24	10	
50	50	53	77,5	27,5	13	
65	66	70	91	31,5	15	
80	81	85	106	33,5	15	
100	100	104	130	43	23	

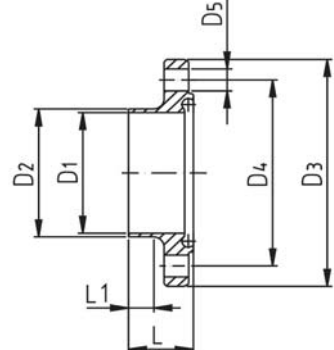
NW	D1	D2	D3	L	L1	Clamp Nut DIN 11853/3 11850 (2) Nutferrule DIN 11853/3 11850 (2)
10	10	13	34	18,5	5	
15	16	19	34	18,5	5	
20	20	23	50,5	18,5	5	
25	26	29	50,5	20	8	
32	32	35	50,5	25,5	10	
40	38	41	64	25,5	10	
50	50	53	77,5	29	13	
65	66	70	91	33	15	
80	81	85	106	35	15	
100	100	104	130	44,5	23	

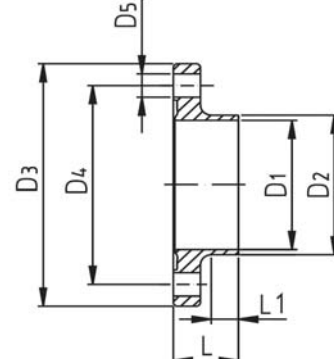
Union DIN 11853/1 ISO 2037 Koppeling DIN 11853/1 ISO 2037		NW	D1	D2	D3	L	E
		1/2"	9,4	12,7	38	40	Rd 28 x 1/8"
		3/4"	15,75	19,05	44	40	Rd 34 x 1/8"
		1"	22,1	25,4	63	42	Rd 52 x 1/6"
		1,5"	34,8	38,1	78	50	Rd 65 x 1/6"
		2"	47,5	50,8	92	54	Rd 78 x 1/6"
		2,5"	60,2	63,5	112	62	Rd 95 x 1/6"
		3"	72,9	76,2	127	72	Rd 110 x 1/4"
		4"	97,38	101,6	148	86	Rd 130 x 1/4"

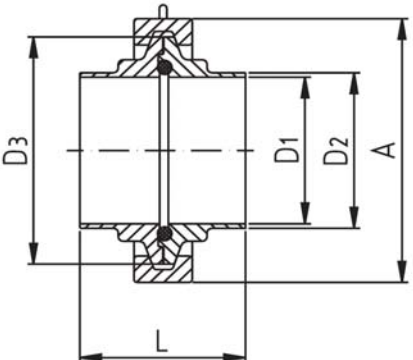
Male DIN 11853/1 ISO 2037 Draadstuk DIN 11853/1 ISO 2037		NW	D1	D2	L	L1	E
		1/2"	9,4	12,7	23	9	Rd 28 x 1/8"
		3/4"	15,75	19,05	23	9	Rd 34 x 1/8"
		1"	22,1	25,4	26	10	Rd 52 x 1/6"
		1,5"	34,8	38,1	31	15	Rd 65 x 1/6"
		2"	47,5	50,8	31	15	Rd 78 x 1/6"
		2,5"	60,2	63,5	36	18	Rd 95 x 1/6"
		3"	72,9	76,2	42	18	Rd 110 x 1/4"
		4"	97,38	101,6	50	26	Rd 130 x 1/4"

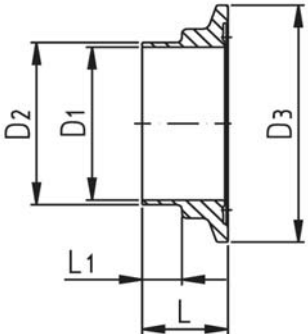
Liner DIN 11853/1 ISO 2037 Puntstuk DIN 11853/1 ISO 2037		NW	D1	D2	D3	L	L1
		1/2"	9,4	12,7	21,9	21	9
		3/4"	15,75	19,05	27,9	21	9
		1"	22,1	25,4	42,9	22	8
		1,5"	34,8	38,1	54,9	26	9,5
		2"	47,5	50,8	66,9	30	12,5
		2,5"	60,2	63,5	84,9	34	21
		3"	72,9	76,2	98,9	38	17
		4"	97,38	101,6	118,9	46	21

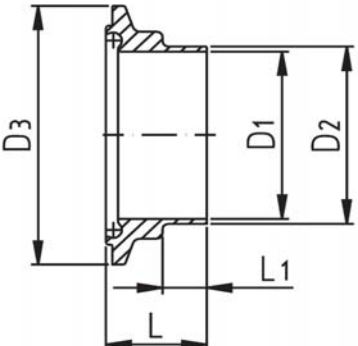
NW	D1	D2	D3	D4	L	A	Flange connection DIN 11853/2 ISO 2037 Flenverbinding DIN 11853/2 ISO 2037
1/2"	9,4	12,7	54	37	48	4/M8 x 30	
3/4"	15,75	19,05	59	42	48	4/M8 x 30	
1"	22,1	25,4	66	49	48	4/M8 x 30	
1,5"	34,8	38,1	79	62	48	4/M8 x 30	
2"	47,5	50,8	92	75	48	4/M8 x 30	
2,5"	60,2	63,5	107	89	48	8/M8 x 30	
3"	72,9	76,2	125	104	48	8/M10 x 30	
4"	97,38	101,6	157	135	52	8/M10 x 35	

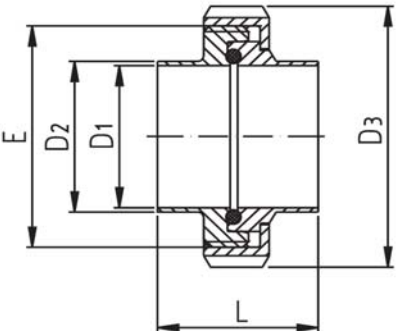
NW	D1	D2	D3	D4	L	L1	Nut flange DIN 11853/2 ISO 2037 Nutflens DIN 11853/2 ISO 2037
1/2"	9,4	12,7	54	37	25,5	10	
3/4"	15,75	19,05	59	42	25,5	10	
1"	22,1	25,4	66	49	25,5	10	
1,5"	34,8	38,1	79	62	25,5	10	
2"	47,5	50,8	92	75	25,5	10	
2,5"	60,2	63,5	107	89	25,5	10	
3"	72,9	76,2	125	104	25,5	8	
4"	97,38	101,6	157	135	27,5	8	

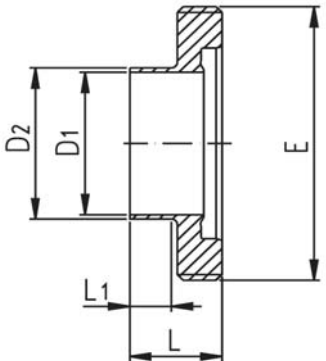
NW	D1	D2	D3	D4	L	L1	Liner flange DIN 11853/2 ISO 2037 Bundflens DIN 11853/2 ISO 2037
1/2"	9,4	12,7	54	37	24	10	
3/4"	15,75	19,05	59	42	24	10	
1"	22,1	25,4	66	49	24	10	
1,5"	34,8	38,1	79	62	24	10	
2"	47,5	50,8	92	75	24	10	
2,5"	60,2	63,5	107	89	24	10	
3"	72,9	76,2	125	104	24	8	
4"	97,38	101,6	157	135	26	8	

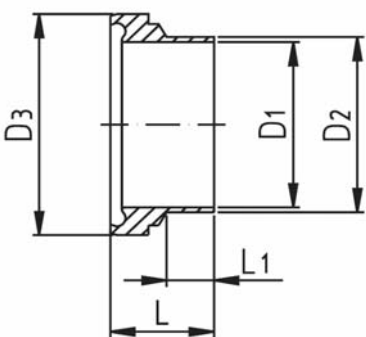
Clamp connection DIN 11853/3 ISO 2037 Klemverbindung DIN 11853/3 ISO 2037	NW	D1	D2	D3	A	L
	1/2"	9,4	12,7	34	45	34
	3/4"	15,75	19,05	34	45	34
	1"	22,1	25,4	50,5	64	35
	1,5"	34,8	38,1	64	77	48
	2"	47,5	50,8	77,5	91	55
	2,5"	60,2	63,5	91	104	61
	3"	72,9	76,2	106	119	71
	4"	97,38	101,6	130	143	83

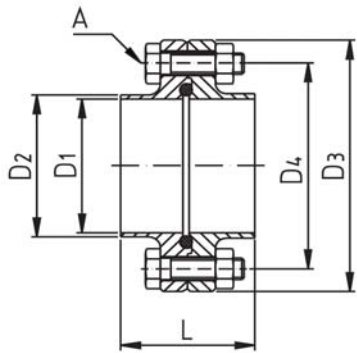
Clamp liner DIN 11853/3 ISO 2037 Bundferrule DIN 11853/3 ISO 2037	NW	D1	D2	D3	L	L1
	1/2"	9,4	12,7	34	17	5
	3/4"	15,75	19,05	34	17	5
	1"	22,1	25,4	50,5	17,5	7
	1,5"	34,8	38,1	64	24	10
	2"	47,5	50,8	77,5	27,5	13
	2,5"	60,2	63,5	91	30,5	13
	3"	72,9	76,2	106	35,5	17
	4"	97,38	101,6	130	41,5	22

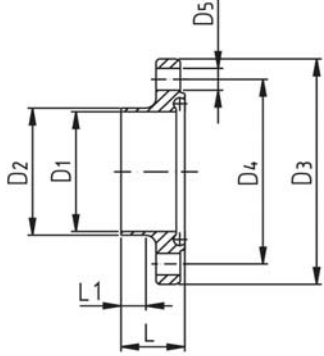
Clamp Nut DIN 11853/3 ISO 2037 Nutferrule DIN 11853/3 ISO 2037	NW	D1	D2	D3	L	L1
	1/2"	9,4	12,7	34	18,5	5
	3/4"	15,75	19,05	34	18,5	5
	1"	22,1	25,4	50,5	19	7
	1,5"	34,8	38,1	64	25,5	10
	2"	47,5	50,8	77,5	29	13
	2,5"	60,2	63,5	91	32	13
	3"	72,9	76,2	106	37	17
	4"	97,38	101,6	130	43	22

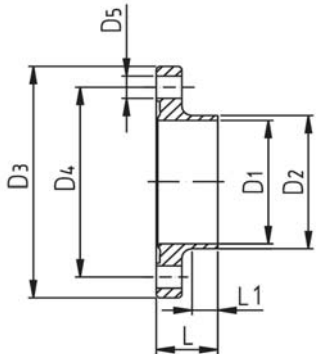
NW	D1	D2	D3	L	E	Union DIN 11853/1 11866 (B) Koppeling DIN 11853/1 11866 (B)
8	10,3	13,5	38	32	Rd 28 x 1/8"	
10	14,0	17,2	44	32	Rd 34 x 1/8"	
15	18,1	21,3	54	34	Rd 44 x 1/6"	
20	23,7	26,9	63	42	Rd 52 x 1/6"	
25	29,7	33,7	70	48	Rd 58 x 1/6"	
32	38,4	42,4	78	50	Rd 65 x 1/6"	
40	44,3	48,3	92	50	Rd 78 x 1/6"	
50	56,3	60,3	112	54	Rd 95 x 1/6"	
65	72,1	76,1	127	72	Rd 110 x 1/4"	
80	84,3	88,9	148	86	Rd 130 x 1/4"	

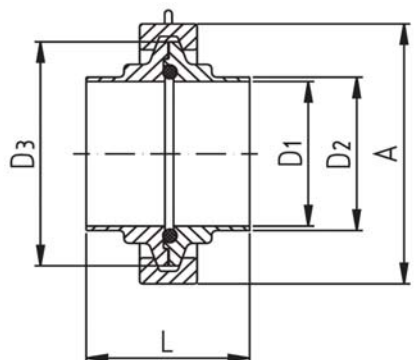
NW	D1	D2	L	L1	E	Male DIN 11853/1 11866 (B) Draadstuk DIN 11853/1 11866 (B)
8	10,3	13,5	19	5		
10	14,0	17,2	19	5		
15	18,1	21,3	21	5		
20	23,7	26,9	26	7		
25	29,7	33,7	30	9		
32	38,4	42,4	31	11		
40	44,3	48,3	31	12		
50	56,3	60,3	36	12		
65	72,1	76,1	42	17		
80	84,3	88,9	50	18		

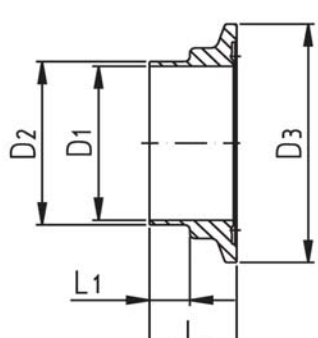
NW	D1	D2	D3	L	L1	Liner DIN 11853/1 11866 (B) Puntstuk DIN 11853/1 11866 (B)
8	10,3	13,5	21,9	17	5	
10	14,0	17,2	27,9	17	5	
15	18,1	21,3	35,9	18	5	
20	23,7	26,9	42,9	22	7	
25	29,7	33,7	48,9	25	9	
32	38,4	42,4	54,9	25	11	
40	44,3	48,3	66,9	30	12	
50	56,3	60,3	84,9	34	12	
65	72,1	76,1	98,9	38	17	
80	84,3	88,9	118,9	46	18	

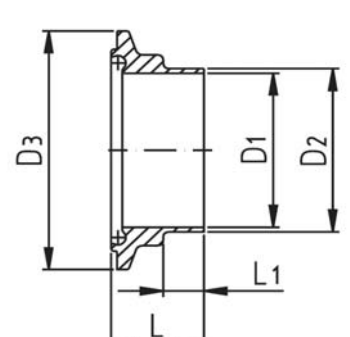
Flange connection DIN 11853/2 11866 (B) Flenverbinding DIN 11853/2 11866 (B)		NW	D1	D2	D3	D4	L	A
		8	10,3	13,5	54	37	48	4/M8 x 30
		10	14,0	17,2	59	42	48	4/M8 x 30
		15	18,1	21,3	62	45	48	4/M8 x 30
		20	23,7	26,9	69	52	48	4/M8 x 30
		25	29,7	33,7	74	57	48	4/M8 x 30
		32	38,4	42,4	82	65	48	4/M8 x 30
		40	44,3	48,3	88	71	48	4/M8 x 30
		50	56,3	60,3	103	85	48	4/M8 x 30
		65	72,1	76,1	125	104	52	8/M10 x 30
		80	84,3	88,9	137	116	52	8/M10 x 35

Nut flange DIN 11853/2 11866 (B) Nutflens DIN 11853/2 11866 (B)		NW	D1	D2	D3	D4	L	L1
		8	10,3	13,5	54	37	25,5	10
		10	14,0	17,2	59	42	25,5	10
		15	18,1	21,3	62	45	25,5	10
		20	23,7	26,9	69	52	25,5	10
		25	29,7	33,7	74	57	25,5	10
		32	38,4	42,4	82	65	25,5	10
		40	44,3	48,3	88	71	25,5	10
		50	56,3	60,3	103	85	25,5	8
		65	72,1	76,1	125	104	27,5	10
		80	84,3	88,9	137	116	27,5	8

Clamp liner DIN 11853/2 11866 (B) Bundferrule DIN 11853/2 11866 (B)		NW	D1	D2	D3	D4	L	L1
		8	10,3	13,5	54	37	24	10
		10	14,0	17,2	59	42	24	10
		15	18,1	21,3	62	45	24	10
		20	23,7	26,9	69	52	24	10
		25	29,7	33,7	74	57	24	10
		32	38,4	42,4	82	65	24	10
		40	44,3	48,3	88	71	24	10
		50	56,3	60,3	103	85	24	8
		65	72,1	76,1	125	104	26	10
		80	84,3	88,9	137	116	26	8

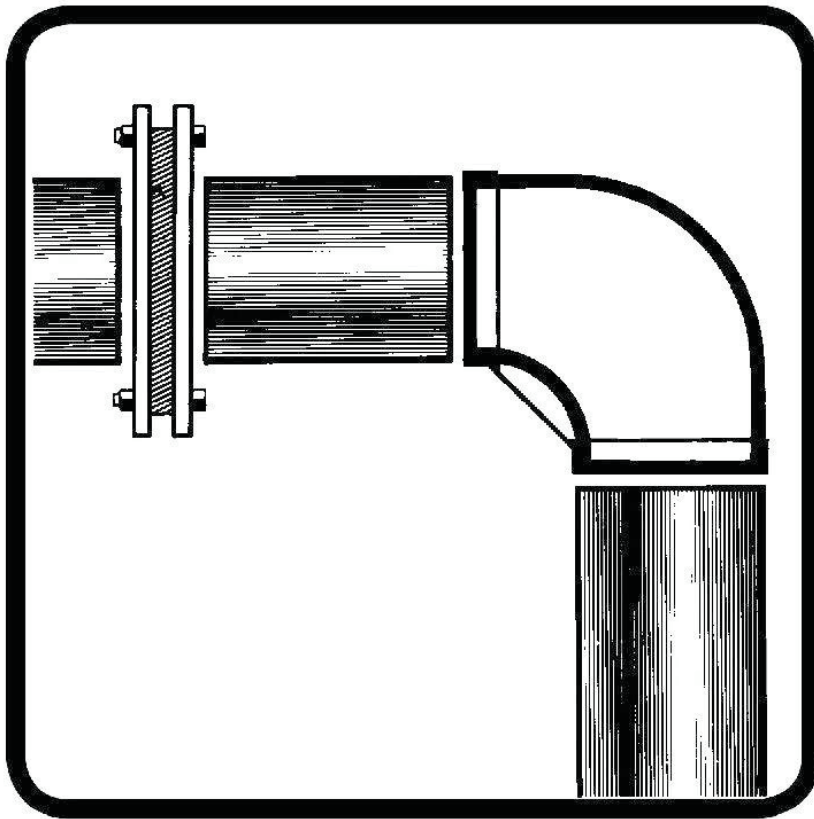
NW	D1	D2	D3	A	L	Clamp connection DIN 11853/3 11866 (B) Klemverbindung DIN 11853/3 11866 (B)
8	10,3	13,5	34	45	34	
10	14,0	17,2	34	45	34	
15	18,1	21,3	34	45	36	
20	23,7	26,9	50,5	64	31,5	
25	29,7	33,7	50,5	64	46	
32	38,4	42,4	64	77	50	
40	44,3	48,3	64	77	54	
50	56,3	60,3	91	104	58	
65	72,1	76,1	106	119	71	
80	84,3	88,9	119	132	78	

NW	D1	D2	D3	L	L1	Clamp liner DIN 11853/3 11866 (B) Bundferrule DIN 11853/3 11866 (B)
8	10,3	13,5	34	17	5	
10	14,0	17,2	34	17	5	
15	18,1	21,3	34	18	5	
20	23,7	26,9	50,5	16	7	
25	29,7	33,7	50,5	23	9	
32	38,4	42,4	64	25	11	
40	44,3	48,3	64	27	12	
50	56,3	60,3	91	29	12	
65	72,1	76,1	106	35,5	17	
80	84,3	88,9	119	39	18	

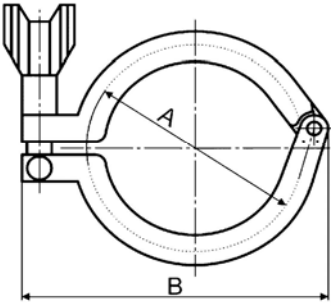
NW	D1	D2	D3	L	L1	Clamp Nut DIN 11853/3 11866 (B) Nutferrule DIN 11853/3 11866 (B)
8	10,3	13,5	34	18,5	5	
10	14,0	17,2	34	18,5	5	
15	18,1	21,3	34	19,5	5	
20	23,7	26,9	50,5	17	7	
25	29,7	33,7	50,5	24,5	9	
32	38,4	42,4	64	26,5	11	
40	44,3	48,3	64	28,5	12	
50	56,3	60,3	91	30,5	12	
65	72,1	76,1	106	37	17	
80	84,3	88,9	119	40,5	18	

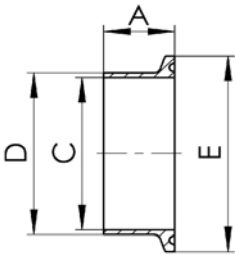
4.3 - *Pipe connections*
Buisverbindingen

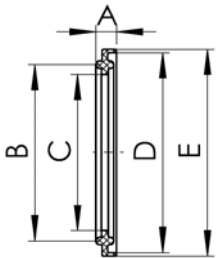
Clamp connection
Triclampverbindingen

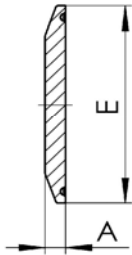


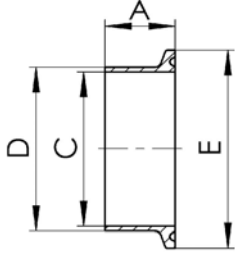
4.3

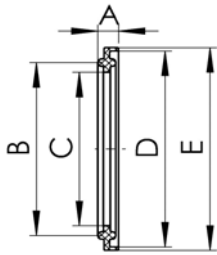
NW	A	B	C	D	E	Heavy duty clamp Triclampbeugel zwaar
10-20	37	62				
25-40	54,5	87				
1-1,5"	54,5	87				
50/2"	68	100,5				
2,5"	81,5	115				
65	95	129,5				
3"	95	129,5				
80	110	145,5				
100/4"	123	159,5				
125	159	215				
150	187	243				

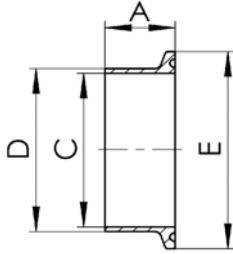
NW	A	B	C	D	E	Welding clamp DIN 32676 Triclampaspuntstuk DIN 32676
10	18		10	13	34	
15	18		16	19	34	
20	18		20	23	34	
25	21,5		26	29	50,5	
32	21,5		32	35	50,5	
40	21,5		38	41	50,5	
50	21,5		50	53	64	
65	28		66	70	91	
80	28		81	85	106	
100	28		100	104	119	
125	28		125	129	155	
150	28		150	154	183	

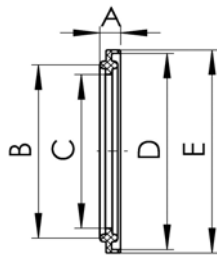
NW	A	B	C	D	E	Clamp seal ring DIN 32676 Triclampdichting DIN 32676
10	5,2	27,5	10,2	34	36,2	
15	5,2	27,5	16,2	34	36,2	
20	5,2	27,5	20,2	34	36,2	
25	5,2	43,5	26,2	50,5	52,7	
32	5,2	43,5	32,2	50,5	52,7	
40	5,2	43,5	38,2	50,5	52,7	
50	5,2	56,5	50,2	64	66,2	
65	5,2	83,5	66,2	91	93,2	
80	5,2	97	81,2	106	108,2	
100	5,2	110	100,2	119	121,2	
125	5,2	146	125,2	155	157,2	
150	5,2	174	150,2	183	185,2	

NW	A	B	C	D	E	Blind clamp Triclampblindpuntstuk
10-20	6,5				34	
25-40	6,5				50,5	
1-1,5"	6,5				50,5	
50/2"	6,5				64	
2,5"	6,5				77,5	
65	6,5				91	
3"	6,5				91	
80	6,5				106	
100/4"	8				119	
125	8				155	
150	8				183	

Welding clamp FDA Triclamplaspuntstuk FDA		NW	A	B	C	D	E
	1/2"		12,7		9,4	12,7	25
	3/4"		12,7		15,75	19,05	25
	1"		28,6		21,1	25,4	50,5
	1,5"		28,6		34,8	38,1	50,5
	2"		28,6		47,5	50,8	64
	2,5"		28,6		60,2	63,5	77,5
	3"		28,6		72,9	76,2	91
	4"		28,6		97,4	101,6	119

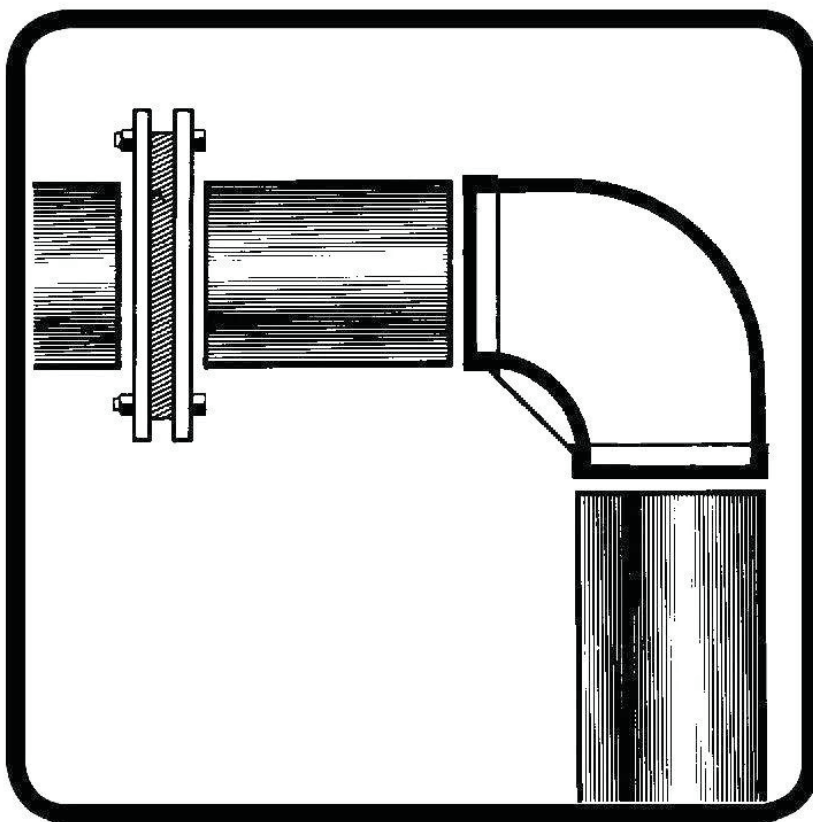
Clamp seal ring FDA Triclamplamping FDA		NW	A	B	C	D	E
	1/2"		5,2	19,5	9,7	25	27,2
	3/4"		5,2	19,5	16,1	25	27,2
	1"		5,2	43,5	22,4	50,5	52,7
	1,5"		5,2	43,5	35,1	50,5	52,7
	2"		5,2	56,5	47,8	64	66,2
	2,5"		5,2	70,5	60,5	77,5	79,7
	3"		5,2	83,5	73,2	91	93,2
	4"		5,2	110	97,8	119	121,2

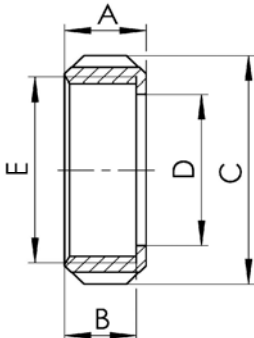
Welding clamp ISO 1127 Triclamplaspuntstuk ISO 1127		NW	A	B	C	D	E
	10		21,5		14,0	17,2	25
	15		21,5		18,1	21,3	25
	20		21,5		22,9	26,9	50,5
	25		21,5		29,7	33,7	50,5
	32		21,5		38,4	42,4	50,5/64
	40		21,5		44,3	48,3	64
	50		21,5		56,3	60,3	77,5
	65		21,5		72,1	76,1	91
	80		21,5		84,9	88,9	106
	100		28		110,3	114,3	130
	125		28		135,7	139,7	155
	150		28		163,3	168,3	183

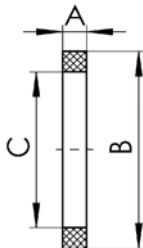
Clamp seal ring ISO 1127 Triclamplamping ISO 1127		NW	A	B	C	D	E
	10		5,2	19,5	14,2	25	27,2
	15		5,2	19,5	18,3	25	27,2
	20		5,2	43,5	23,9	50,5	52,7
	25		5,2	43,5	30,7	50,5	52,7
	32		5,2	43,5	39,2	50,5	52,7
	40		5,2	56,5	45,3	64	66,2
	50		5,2	70,5	57,3	77,5	79,7
	65		5,2	83,5	73,1	91	93,2
	80		5,2	97	85,9	106	108,2
	100		5,2	-	111	130	132,2
	125		5,2	146	136,7	155	157,2
	150		5,2	174	165,3	183	185,2

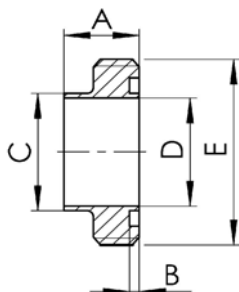
4.4 - *Pipe connections* *Buisverbindingen*

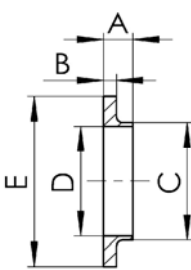
Connection parts
SMS, RJT, IDF,
Koppelingen
SMS, RJT, IDF

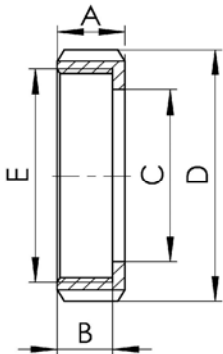


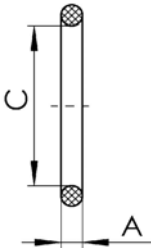
NW	A	B	C	D	E	Nut SMS Wartelmoer SMS
1"	19	15	51	32	Rd 40x1/6"	
1,5"	25	21	74	48	Rd 60x1/6"	
2"	26	21	84	60,5	Rd 70x1/6"	
2,5"	30	25	100	74	Rd 85x1/6"	
3"	31	26	114	87	Rd 98x1/6"	
4"	32	27	154	117	Rd 132x1/6"	

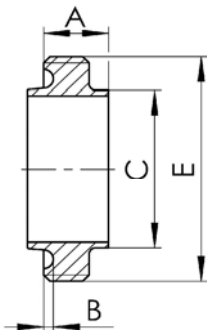
NW	A	B	C	D	E	Seal SMS Dichting SMS
1"	5,5	32	25			
1,5"	5,5	48	38			
2"	5,5	61	51			
2,5"	5,5	73,5	63,5			
3"	5,5	86	76			
4"	5,5	114	101,6			

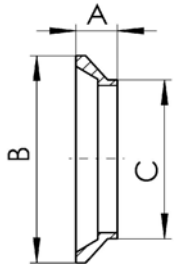
NW	A	B	C	D	E	Male SMS Draadstuk SMS
1"	15	3	25,6	22,9	Rd 40x1/6"	
1,5"	20	3	38,6	35,1	Rd 60x1/6"	
2"	20	3	51,6	48	Rd 70x1/6"	
2,5"	24	3	64,1	60,5	Rd 85x1/6"	
3"	24	3	76,6	72,1	Rd 98x1/6"	
4"	25	3	102,5	97,6	Rd 132x1/6"	

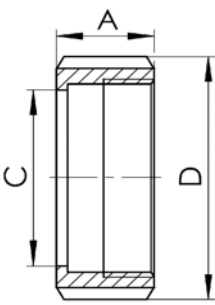
NW	A	B	C	D	E	Female SMS Puntstuk SMS
1"	7,5	3,5	25,6	22,9	35,5	
1,5"	9	4	38,6	35,1	55	
2"	9	4	51,6	48	65	
2,5"	9	4	64,1	60,5	80	
3"	10	5	76,6	72,1	93	
4"	12	6	102,5	97,6	127	

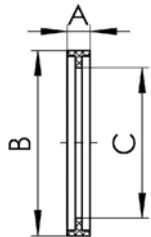
<i>Nut RJT</i> <i>Wartelmoer RJT</i>	NW	A	B	C	D	E
	1"	22	18	33,3	57	Rjt 45,7x1/8"
	1,5"	22	18	46	72	Rjt 58,4x1/8"
	2"	22	18	58,7	86	Rjt 72,7x1/6"
	2,5"	22	18	71,5	100	Rjt 85,4x1/6"
	3"	22	18	84	114	Rjt 98,1x1/6"
	4"	22	18	110	142	Rjt 123,1x1/6"

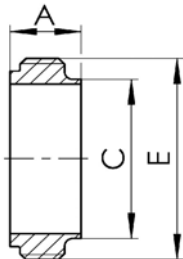
<i>Seal RJT</i> <i>Dichting RJT</i>	NW	A	B	C	D	E
	1"	6,6		26,8		
	1,5"	6,6		39,4		
	2"	6,6		52,1		
	2,5"	6,6		64,9		
	3"	6,6		77,4		
	4"	6,6		102,9		

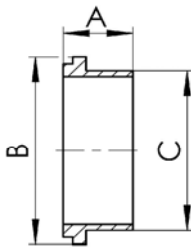
<i>Male RJT</i> <i>Draadstuk RJT</i>	NW	A	B	C	D	E
	1"	22,2	4,8	25,8		Rjt 45,7x1/8"
	1,5"	22,2	4,8	38,5		Rjt 58,4x1/8"
	2"	22,2	4,8	51,2		Rjt 72,7x1/6"
	2,5"	22,2	4,8	63,9		Rjt 85,4x1/6"
	3"	22,2	4,8	76,6		Rjt 98,1x1/6"
	4"	27	4,8	102		Rjt 123,1x1/6"

<i>Female RJT</i> <i>Puntstuk RJT</i>	NW	A	B	C	D	E
	1"	12,7	41,3	25,8		
	1,5"	12,7	54	38,5		
	2"	12,7	66,7	51,2		
	2,5"	12,7	75,4	63,9		
	3"	12,7	92,1	76,6		
	4"	25,4	117,8	102		

NW	A	B	C	D	E	Nut IDF Wartelmoer IDF
1"	30		30,5	48		
1,5"	30		43,5	64		
2"	30		57	77		
2,5"	30		70	91		
3"	30		83	106		
4"	35		112	135		

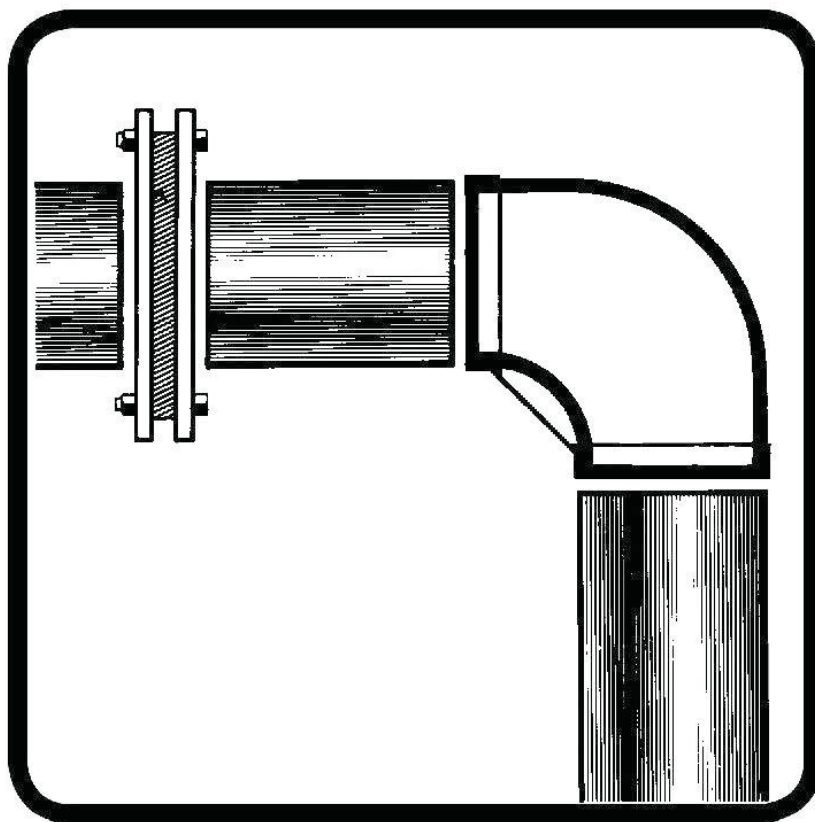
NW	A	B	C	D	E	Seal IDF Dichting IDF
1"	7	32,5	25			
1,5"	7	46	38			
2"	7	59,5	51			
2,5"	7	73	63,5			
3"	7	86,5	76,1			
4"	9,5	119	101,6			

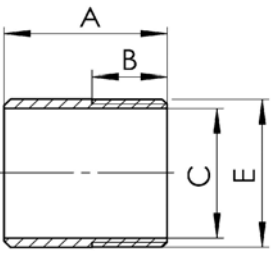
NW	A	B	C	D	E	Male IDF Draadstuk IDF
1"	21,5		26		Tr 37,1x1/8"	
1,5"	21,5		39		Tr 50,6x1/8"	
2"	21,5		52		Tr 64,1x1/8"	
2,5"	21,5		64		Tr 77,6x1/8"	
3"	21,5		77		Tr 91,1x1/8"	
4"	21,5		103		Tr 125,9x1/6"	

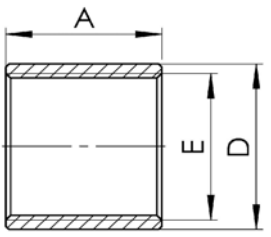
NW	A	B	C	D	E	Female IDF Puntstuk IDF
1"	21,5	33,8	25,6			
1,5"	21,5	47	38,6			
2"	21,5	60,5	51,6			
2,5"	21,5	74	64,1			
3"	21,5	87,5	76,6			
4"	21,5	114,1	102,5			

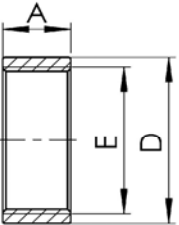
4.5 - *Pipe connections*
Buisverbindingen

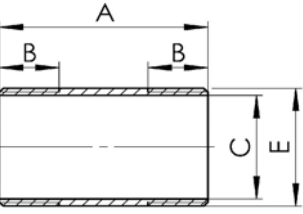
BSP fittings
BSP fittingen

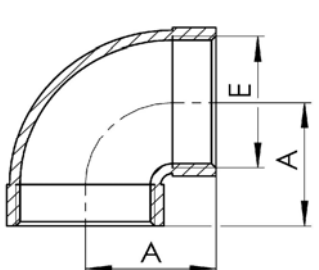


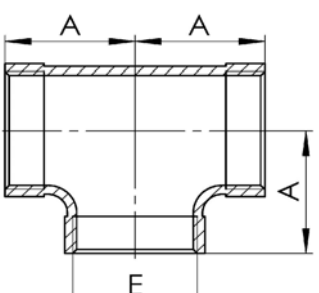
NW	A	B	C	D	E	Welding nipple BSP Lasnippel BSP
6					R 1/8"	
8					R 1/4"	
10					R 3/8"	
15					R 1/2"	
20					R 3/4"	
25	For exact measurements please contact us !				R 1"	
32					R 1 1/4"	
40					R 1 1/2"	
50					R 2"	
65					R 2 1/2"	
80					R 3"	
100					R 4"	

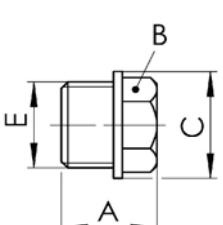
NW	A	B	C	D	E	Equal socket BSP Sok BSP
6					R 1/8"	
8					R 1/4"	
10					R 3/8"	
15					R 1/2"	
20					R 3/4"	
25	For exact measurements please contact us !				R 1"	
32					R 1 1/4"	
40					R 1 1/2"	
50					R 2"	
65					R 2 1/2"	
80					R 3"	
					R 4"	

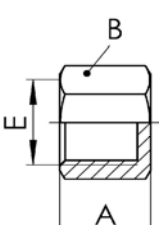
NW	A	B	C	D	E	Welding socket BSP Halve sok BSP
6					R 1/8"	
8					R 1/4"	
10					R 3/8"	
15					R 1/2"	
20					R 3/4"	
25	For exact measurements please contact us !				R 1"	
32					R 1 1/4"	
40					R 1 1/2"	
50					R 2"	
65					R 2 1/2"	
80					R 3"	
100					R 4"	

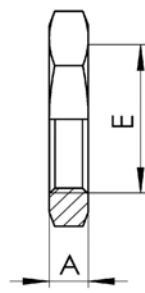
NW	A	B	C	D	E	Barrel nipple BSP Pijpnippel BSP
6					R 1/8"	
8					R 1/4"	
10					R 3/8"	
15					R 1/2"	
20					R 3/4"	
25	For exact measurements please contact us !				R 1"	
32					R 1 1/4"	
40					R 1 1/2"	
50					R 2"	
65					R 2 1/2"	
80					R 3"	
100					R 4"	

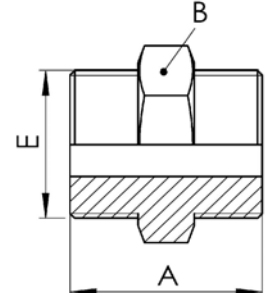
<i>Elbow90 BSP</i> <i>Knie90 BSP</i>	NW	A	B	C	D	E
	6					R 1/8"
	8					R 1/4"
	10					R 3/8"
	15					R 1/2"
	20					R 3/4"
	25	For exact measurements please contact us !				R 1"
	32					R 1 1/4"
	40					R 1 1/2"
	50					R 2"
	65					R 2 1/2"
	80					R 3"
	100					R 4"

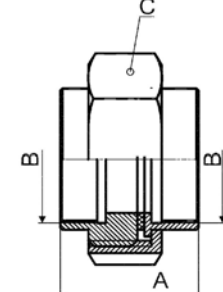
<i>T-piece BSP</i> <i>T-stuk BSP</i>	NW	A	B	C	D	E
	6					R 1/8"
	8					R 1/4"
	10					R 3/8"
	15					R 1/2"
	20					R 3/4"
	25	For exact measurements please contact us !				R 1"
	32					R 1 1/4"
	40					R 1 1/2"
	50					R 2"
	65					R 2 1/2"
	80					R 3"
	100					R 4"

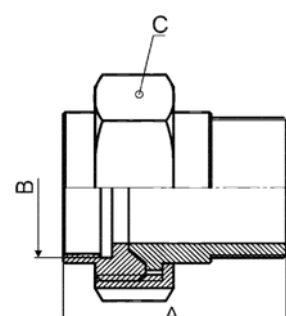
<i>Hexagon plug taper thread BSP</i> <i>6kt. plug BSP</i>	NW	A	B	C	D	E
	6					R 1/8"
	8					R 1/4"
	10					R 3/8"
	15					R 1/2"
	20					R 3/4"
	25	For exact measurements please contact us !				R 1"
	32					R 1 1/4"
	40					R 1 1/2"
	50					R 2"
	65					R 2 1/2"
	80					R 3"
	100					R 4"

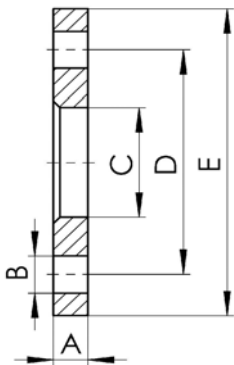
<i>Hexagon cap BSP</i> <i>6kt. kap BSP</i>	NW	A	B	C	D	E
	6					R 1/8"
	8					R 1/4"
	10					R 3/8"
	15					R 1/2"
	20					R 3/4"
	25	For exact measurements please contact us !				R 1"
	32					R 1 1/4"
	40					R 1 1/2"
	50					R 2"
	65					R 2 1/2"
	80					R 3"
	100					R 4"

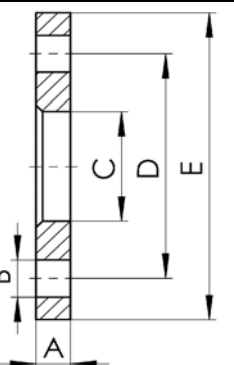
NW	A	B	C	D	E	Hexagon lock nut BSP 6kt. moer BSP
6					R 1/8"	
8					R 1/4"	
10					R 3/8"	
15					R 1/2"	
20					R 3/4"	
25	For exact measurements please contact us !				R 1"	
32					R 1 1/4"	
40					R 1 1/2"	
50					R 2"	
65					R 2 1/2"	
80					R 3"	
100					R 4"	

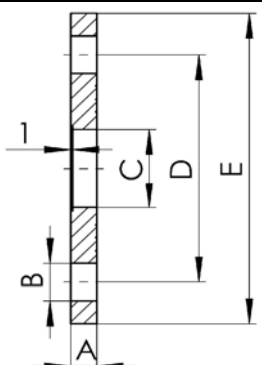
NW	A	B	C	D	E	Hexagon nipple Dubbele 6kt. Nippel
6					R 1/8"	
8					R 1/4"	
10					R 3/8"	
15					R 1/2"	
20					R 3/4"	
25	For exact measurements please contact us !				R 1"	
32					R 1 1/4"	
40					R 1 1/2"	
50					R 2"	
65					R 2 1/2"	
80					R 3"	
100					R 4"	

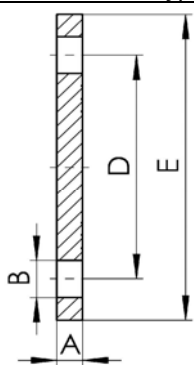
NW	A	B	C	D	E	Union female/female BSP Kon. koppeling binnen draad BSP
6						
8						
10						
15						
20						
25	For exact measurements please contact us !					
32						
40						
50						
65						
80						
100						

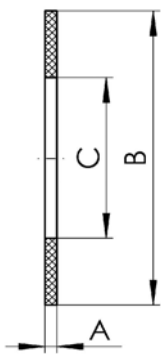
NW	A	B	C	D	E	Union female/male BSP Kon. koppeling bi/bui draad BSP
6						
8						
10						
15						
20						
25	For exact measurements please contact us !					
32						
40						
50						
65						
80						
100						

Loose flange 2642 PN10 Type A Overschuifflens 2642 PN10 Type A		NW	A	B	C	D	E
		15	14	14	22	65	95
		20	14	14	28	75	105
		25	16	14	33	85	115
		32	16	18	42	100	140
		40	16	18	50	110	150
		50	16	18	59	125	165
		65	16	18	75	145	185
		80	18	18	89	160	200
		100	18	18	109	180	220
		125	18	18	134	210	250
		150	18	22	159	240	285

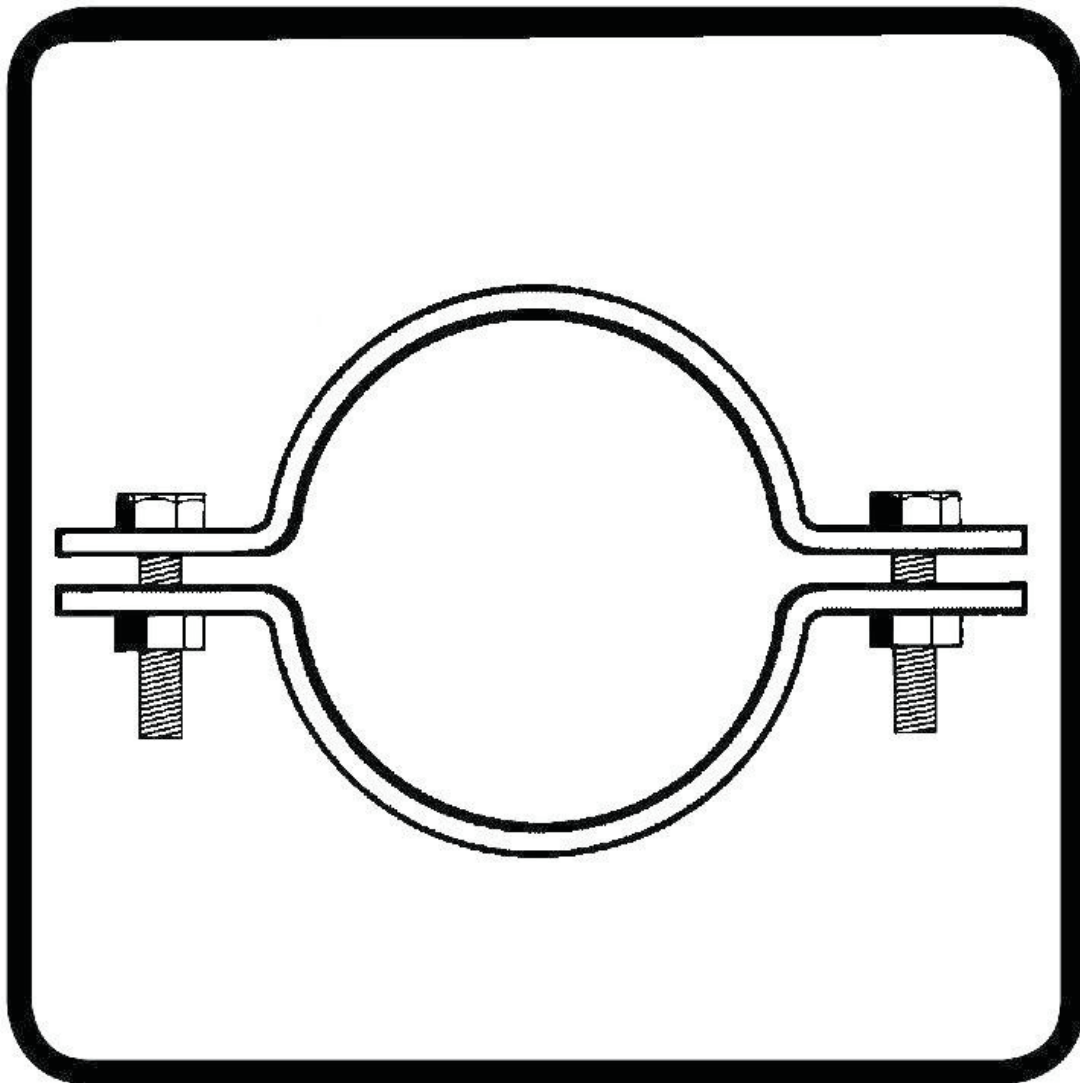
Loose flange EN1092-1 type 02C Overschuifflens EN1092-1 type 02C		NW	A	B	C	D	E
		10	14	14	21	60	90
		15	14	14	25	65	95
		20	14	14	31	75	105
		25	16	14	38	85	115
		32	16	18	47	100	140
		40	16	18	53	110	150
		50	16	18	65	125	165
		65	16	18	81	145	185
		80	18	18	94	160	200
		100	18	18	120	180	220
		125	18	18	145	210	250
		150	18	22	174	240	285

Flat flange EN1092-1 type 02 Vlakke las flens EN1092-1 type 02		NW	A	B	C	D	E
		10	14	14	18	60	PN 40 90
		15	14	14	22	65	PN 40 95
		20	16	14	27,5	75	PN 40 105
		25	16	14	35	85	PN 40 115
		32	18	18	34,5	100	PN 40 140
		40	18	18	49,5	110	PN 40 150
		50	19	18	50,9	125	PN 16 165
		65	20	18	77,5	145	PN 16 185
		80	20	18	90,5	160	PN 16 200
		100	22	18	116	180	PN 16 220

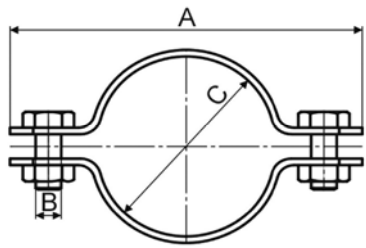
Blind flange EN1092-1 type 05A Blindflens EN1092-1 type 05A		NW	A	B	C	D	E
		10	16	14		60	PN 40 90
		15	16	14		65	PN 40 95
		20	18	14		75	PN 40 105
		25	18	14		85	PN 40 115
		32	18	18		100	PN 40 140
		40	18	18		110	PN 40 150
		50	18	18		125	PN 16 165
		65	18	18		145	PN 16 185
		80	20	18		160	PN 16 200
		100	20	18		180	PN 16 220

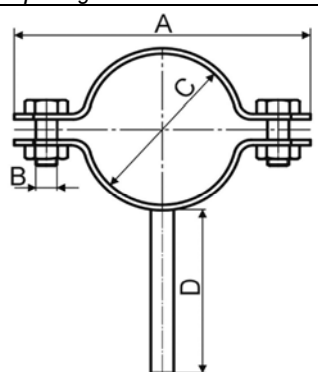
NW	A	B	C	D	E	Welding neck flange EN1092-1 type 11
						Voorlas flens EN1092-1 type 11
10	35	17,2	13,6	60	PN 40	90
15	38	21,3	17,3	65	PN 40	95
20	40	26,9	22,3	75	PN 40	105
25	40	33,7	28,5	85	PN 40	115
32	42	42,4	37,2	100	PN 40	140
40	45	48,3	43,1	110	PN 40	150
50	45	60,3	54,5	125	PN 16	165
65	45	76,1	70,3	145	PN 16	185
80	50	88,9	82,5	160	PN 16	200
100	52	114,3	107,1	180	PN 16	220
NW	A	B	C	D	E	Gasket for flange PN16/40
						Flensdichting PN16/40
10	3	45	19	available in:	multiblauw	
15	2	50	22		epdm	
20	2	60	28		silicone	
25	2	70	35		grafiet	
32	2	82	43			
40	2	92	49			
50	2	107	61			
65	2	127	77			
80	2	142	91			
100	2	162	115			
125	2	192	141			
150	2	218	173			

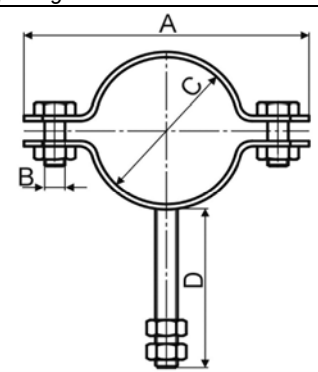
5.0 - Assembly Equipment
Montagetoebehoren

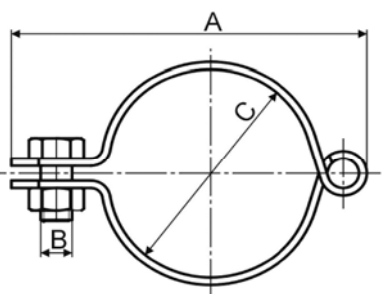


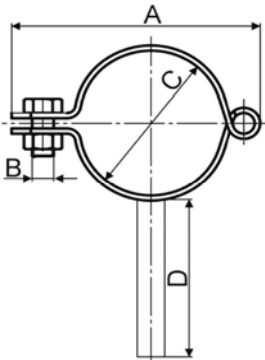
5.0

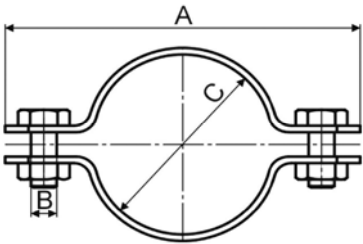
NW	A	B	C	D	Strip	Pipe clamp DIN 11850 Kapbeugel DIN 11850
10	52	M6	12		20x3	
15	62	M6	18		20x3	
20	62	M6	22		20x3	
25	69	M6	28		20x3	
32	80	M6	34		20x3	
40	88	M6	40		20x3	
50	105	M6	52		20x3	
65	125	M6	70		20x3	
80	138	M6	85		25x3	
100	160	M6	104		25x3	
125	195	M8	129		30x3	
150	223	M8	154		30x3	

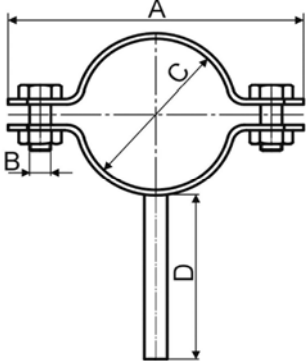
NW	A	B	C	D	Stift	Strip	Pipe clamp + welding shaft DIN 11850 Kapbeugels + stift DIN 11850
10	52	M6	12	8x60	ø8	20x3	
15	62	M6	18	8x60	ø8	20x3	
20	62	M6	22	8x60	ø8	20x3	
25	69	M6	28	8x60	ø10	20x3	
32	80	M6	34	8x60	ø10	20x3	
40	88	M6	40	8x60	ø10	20x3	
50	105	M6	52	10x60	ø12	20x3	
65	125	M6	70	10x60	ø12	20x3	
80	138	M6	85	12x60	ø12	25x3	
100	160	M6	104	12x60	ø12	25x3	
125	195	M8	129	14x60	ø16	30x3	
150	223	M8	154	14x60	ø16	30x3	

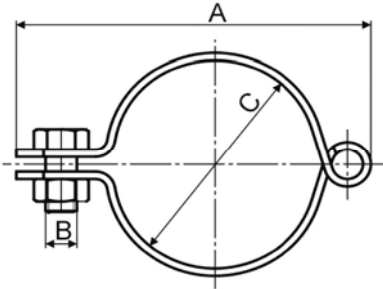
NW	A	B	C	D	Strip	Pipe clamp + threaded shaft DIN 11850 Kapbeugel + draadstift DIN 11850
10	52	M6	12	M8x80	20x3	
15	62	M6	18	M8x80	20x3	
20	62	M6	22	M8x80	20x3	
25	69	M6	28	M10x80	20x3	
32	80	M6	34	M10x80	20x3	
40	88	M6	40	M10x80	20x3	
50	105	M6	52	M12x80	20x3	
65	125	M6	70	M12x80	20x3	
80	138	M6	85	M12x80	25x3	
100	160	M6	104	M12x80	25x3	
125	195	M8	129	M16x80	30x3	
150	223	M8	154	M16x80	30x3	

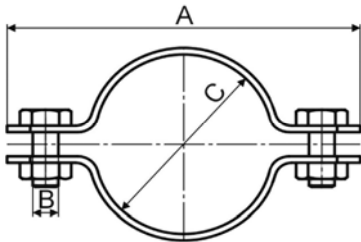
NW	A	B	C	D	Strip	Pipe clamp hinged Schanierbare kapbeugel
25	72	M8	28		25x2	
32	76	M8	34		25x2	
40	82	M8	40		25x2	
50	96	M10	52		30x3	
65	116	M10	70		30x3	
80	130	M10	85		30x3	
100	150	M10	104		30x3	

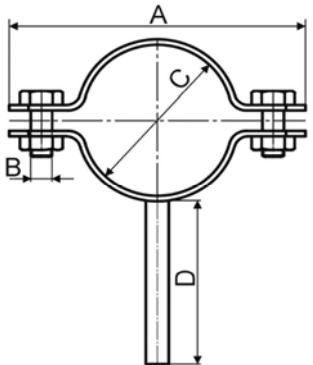
<i>Pipe clamp hinged + shaft</i> <i>Schanierbare kapbeugel + stift</i>	NW	A	B	C	D	Strip
	25	72	M8	28	60	25x2
	32	76	M8	34	60	25x2
	40	82	M8	40	60	25x2
	50	96	M10	52	60	30x3
	65	116	M10	70	60	30x3
	80	130	M10	85	60	30x3
	100	150	M10	104	60	30x3

<i>Pipe clamp Inch</i> <i>Kapbeugel Inch</i>	NW	A	B	C	D	Strip
	1"	69	M6	25,4		20x3
	1,25"	80	M6	31,8		20x3
	1,5"	80	M6	38,1		20x3
	2"	105	M6	50,8		20x3
	2,5"	125	M6	63,5		20x3
	3"	138	M6	76,1		25x3
	4"	160	M6	101,6		25x3

<i>Pipe clamp + welding shaft Inch</i> <i>Kapbeugel + stift Inch</i>	NW	A	B	C	D	Strip
	1"	69	M6	25,4	60	20x3
	1,25"	80	M6	31,8	60	20x3
	1,5"	80	M6	38,1	60	20x3
	2"	105	M6	50,8	60	20x3
	2,5"	125	M6	63,5	60	20x3
	3"	138	M6	76,1	60	25x3
	4"	160	M6	101,6	60	25x3

<i>Pipe clamp hinged Inch</i> <i>Schanierbare kapbeugel Inch</i>	NW	A	B	C	D	Strip
	1"	72	M6	25,4		20x3
	1,5"	82	M6	38,1		20x3
	2"	96	M6	50,8		20x3
	2,5"	116	M6	63,5		20x3
	3"	130	M6	76,1		20x3
	4"	150	M6	101,6		25x3

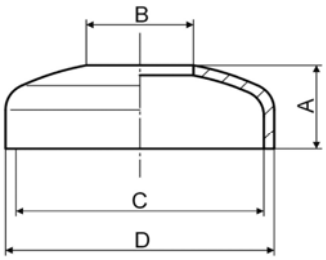
NW	A	B	C	D	Strip	Pipe clamp ISO Kapbeugel ISO
10	58	M6	17,2		20x2	
15	68	M6	21,3		20x2	
20	68	M6	26,9		20x2	
25	75	M8	33,7		25x2	
32	88	M8	42,4		25x2	
40	94	M8	48,3		30x2	
50	116	M8	60,3		30x2	
65	148	M8	76,1		30x2,5	
80	165	M8	88,9		30x2,5	
100	188	M10	114,3		35x3	

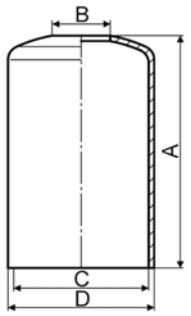
NW	A	B	C	D	Strip	Pipe clamp + welding shaft ISO Kapbeugels + stift ISO
10	58	M6	17,2	8x60	20x2	
15	68	M6	21,3	8x60	20x2	
20	68	M6	26,9	8x60	20x2	
25	75	M8	33,7	8x60	25x2	
32	88	M8	42,4	8x60	25x2	
40	94	M8	48,3	10x60	30x2	
50	116	M8	60,3	10x60	30x2	
65	148	M8	76,1	10x60	30x2,5	
80	165	M8	88,9	12x60	30x2,5	
100	188	M10	114,3	12x60	35x3	

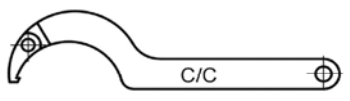
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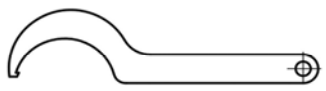
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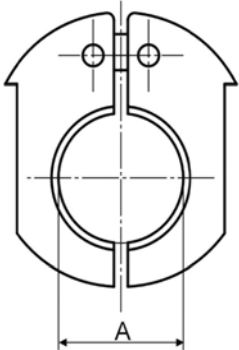
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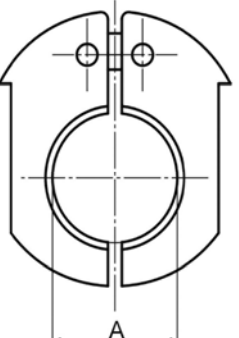
NW	A	B	C	D	E	Rosette DIN 11850 Rozette DIN 11850
25	10		24	29		
32	12		30	35		
40	17		36	41		
50	18		48	53		
65	21		66	70		
80	21		81	85		
100	18		100	104		
125	24		125	129		
150	41		150	154		
200	52		200	204		

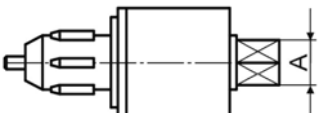
NW	A	B	C	D	E	Bell for welding DIN 11850 Muurdoorvoer DIN 11850
25	135	28,2	81	85		
32	132	34,2	100	104		
40	132	40,2	100	104		
50	128	52,2	125	129		
65	128	70,3	150	154		
80	128	85,3	200	204		
100	155	104,3	200	204		

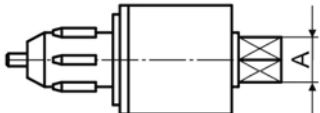
NW	A	B	C	D	E	C-spanner Koppelingssleutel
10-20			35-60			
25-40			60-90			
50-80			90-155			
100-150			115-230			

NW	A	B	C	D	E	C-spanner Koppelingssleutel met vaste kop
25-65						
80-100						
125						
150						

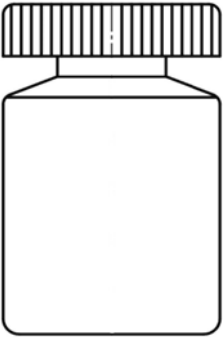
<i>Tube sawing tool DIN 11850</i> <i>Zaagblok DIN 11850</i>	NW	Reihe 1	Reihe 2	Gewicht in kg
	10	12	13	0,6
	15	18	19	0,6
	20	22	23	0,6
	25	28	29	0,7
	32	24	35	0,6
	40	40	41	0,9
	50	52	53	1,0
	65	70		1,9
	80	85		2,1
	100	104		2,6

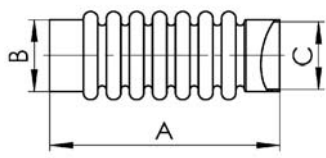
<i>Tube sawing tool Inch & ISO</i> <i>Zaagblok Inch & ISO</i>	NW	A	B	C	D	Gewicht in kg
	10		17,2			0,6
	15		21,3			0,6
	20		26,9			0,7
	25/1"	25,4	33,7			0,7
	32/1,25"	31,8	42,4			0,9
	40/1,5"	38,1	48,3			1,0
	50/2"	50,8	60,3			2,1
	65/2,5"	63,5	76,1			2,5
	3"	76,1				2,5
	80		88,9			3,2
	100/4"	101,6				2,7

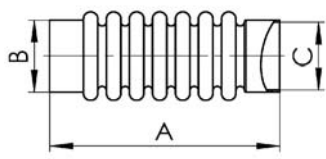
<i>Pipe expander DIN 11851</i> <i>Buiswals DIN 11851</i>	NW	Reihe 1	Reihe 2	Gewicht in kg
	10	12	13	0,3
	15	18	19	0,3
	20	22	23	0,4
	25	28	29	0,7
	32	24	35	1,0
	40	40	41	1,5
	50	52	53	2,3
	65	70		4,2
	80	85		6,8
	100	104		10,6

<i>Pipe expander Inch & ISO</i> <i>Buiswals Inch & ISO</i>	NW	Inch	Gewicht in kg
	1"	25,4	0,7
	1,25"	31,8	1,0
	1,5"	38,1	1,4
	2"	50,8	2,3
	2,5"	63,5	3,9
	3"	76,1	6,2
	3,5"	88,9	8,1
	4"	101,6	10,7

NW	A	B	C	D	Gewicht in kg	Ratchet Ratel voor rollenwals
10-20	8				0,1	
25-32	12				0,3	
40-50	14				0,3	
65	16				0,4	
80-100	22				0,8	

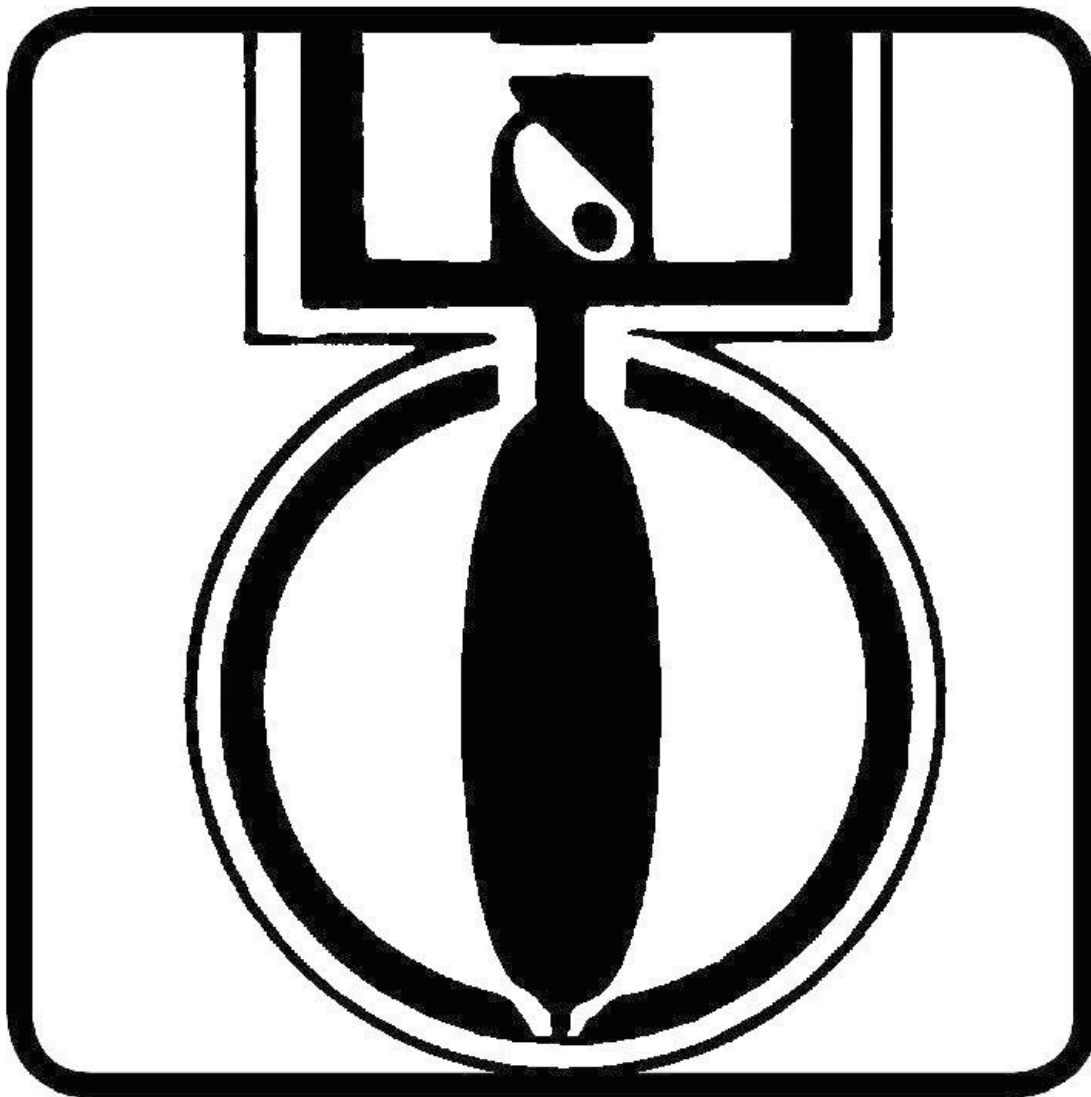
NW	A	B	C	D	E	Pickling Paste Beitspasta
						

NW	A	B	C	D	Expansie	Compensator welding DIN Compensator las DIN
20	175	23	20		+/- 10	
25	185	29	26		+/- 12	
32	185	35	32		+/- 12	
40	190	41	38		+/- 12	
50	205	53	50		+/- 15	
65	230	70	66		+/- 20	
80	230	85	81		+/- 22	
100	230	104	100		+/- 22	

NW	A	B	C	D	Expansie	Compensator welding Inch Compensator las Inch
1"	185	25,4	22,4		+/- 12	
1,25"	185	31,8	28,8		+/- 12	
1,5"	190	38,1	36,5		+/- 12	
2"	205	50,8	47,8		+/- 15	
2,5"	230	63,5	60,5		+/- 18	
3"	230	76,1	74,1		+/- 20	
4"	230	101,6	97,6		+/- 22	

6.0 - Butterfly valves
Vlinderkleppen

Butterfly valves
Vlinderkleppen

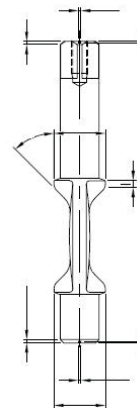
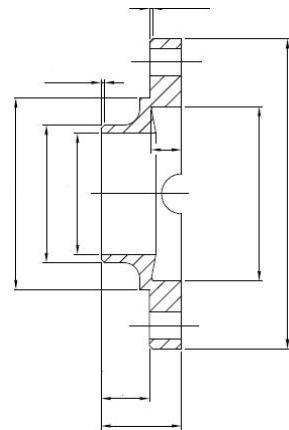


6.0

The butterfly valve with the "blue button"

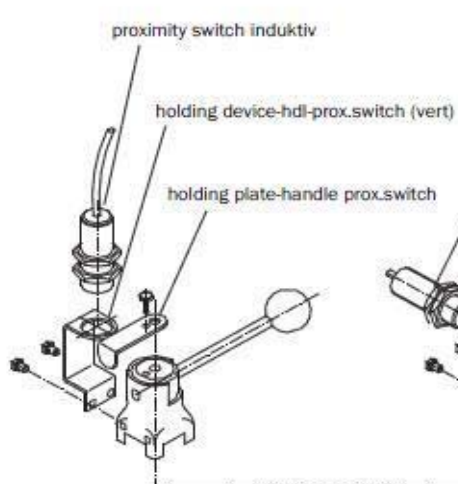
This type butterfly valve, *manufactured by the MSS Group*, widely used in the Food- and Allied Industry is fully exchangeable with the well known, already for decades implemented, DIN normalized butterfly valve with the "blue button" !

Materiaal:	304(L) & 316(L)
Sizes:	DIN NW25-NW200, Inch 1" - 4", ISO DN25-DN150
Connections:	Welding ends for tube size: DIN threaded/liner-nut (11851,11864) Triclamps (DIN, Inch and ISO) SMS thread (Swedish norm 1145) RJT thread (BS4825) IDF/ISS thread (FDA norm)
Other connect.:	On request
Seals:	Silicone EPDM VITON NBR
Other seals:	On request
Inside roughness:	Ra 0,5 till max. 0,8Mu
On request:	Ra <0,5Mu
Operating:	Manuel (Several types) Air (Double air; Air/Spring) Electric (24V, 220V) Several valve adjustments

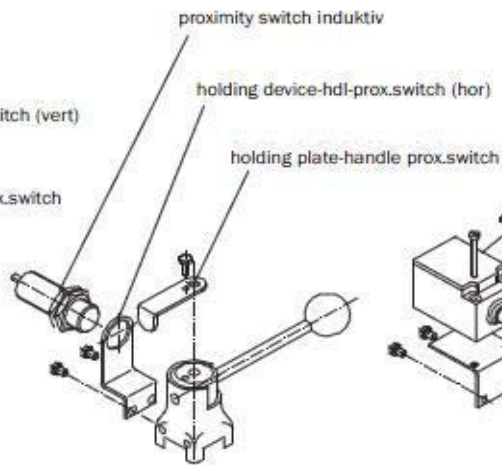


**All valves are tested for pressure (minimum 12-14 Bar)
and torque checked.**

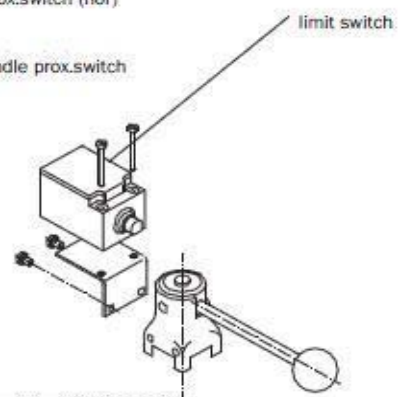
butterfly valve handle-standard with
prox.switch vertical



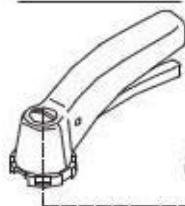
butterfly valve handle-standard with
prox.switch horizontal



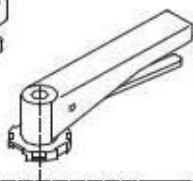
butterfly valve handle-standard with
limit switch



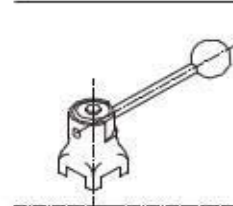
plastic handle



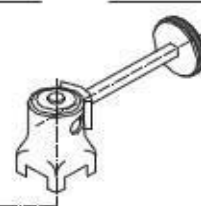
butterfly valvescissors
handle



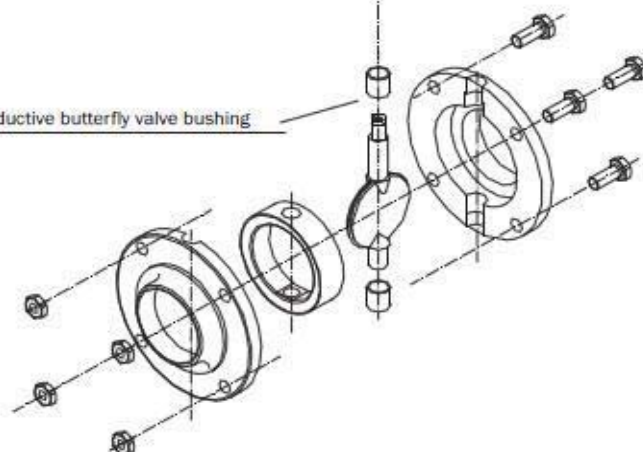
butterfly valve handle-standard

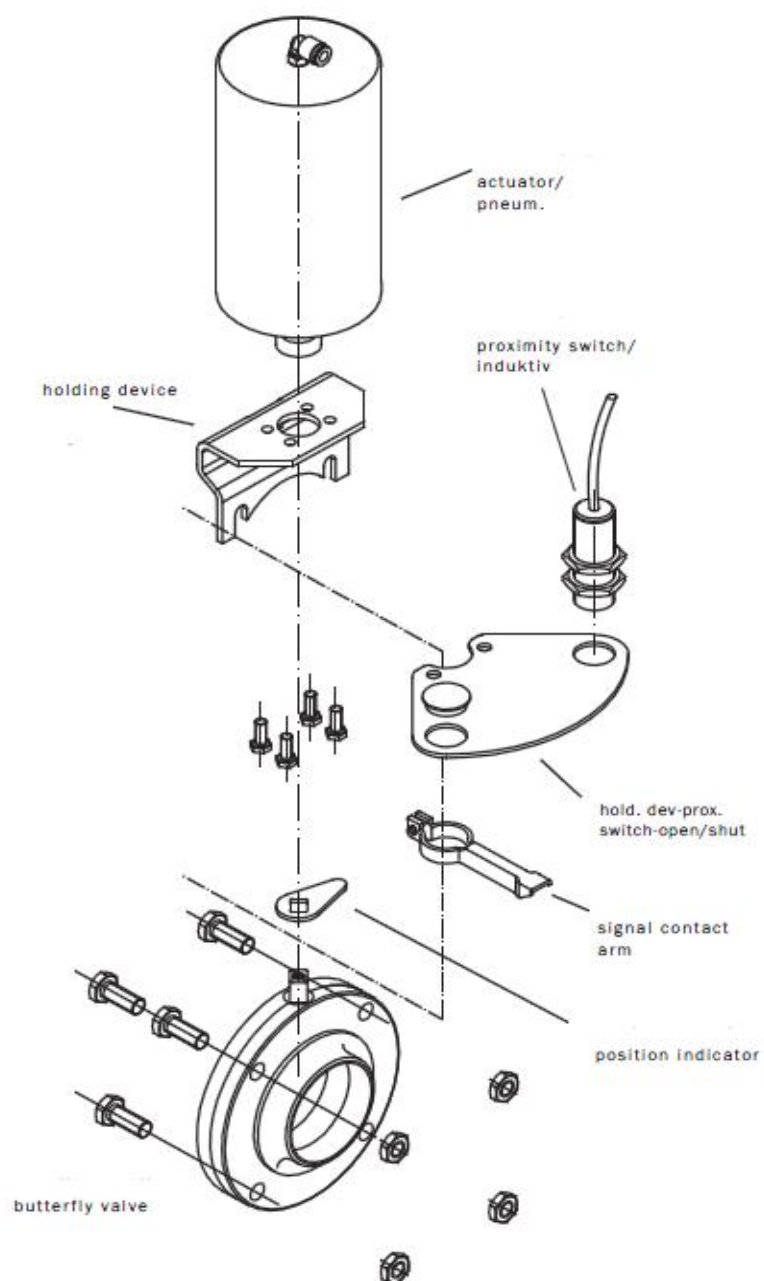


butterfly valve handle-stepless



conductive butterfly valve bushing





Description Pneumatic Actuators

	Mini	Standard		Reinforced	NC/NO
Square	9,5		14	9,5	9,5
BV DN125-200	X				
BV DN125-200					
BV DN125-200			X		

The torque to open or close the valve is mainly defined by the size, the sealing material, the product and the media temperature. Since the change in volume of an elastomer is about 10-times higher compared to steel, the increase of temperature entails an increase of the torque, too.

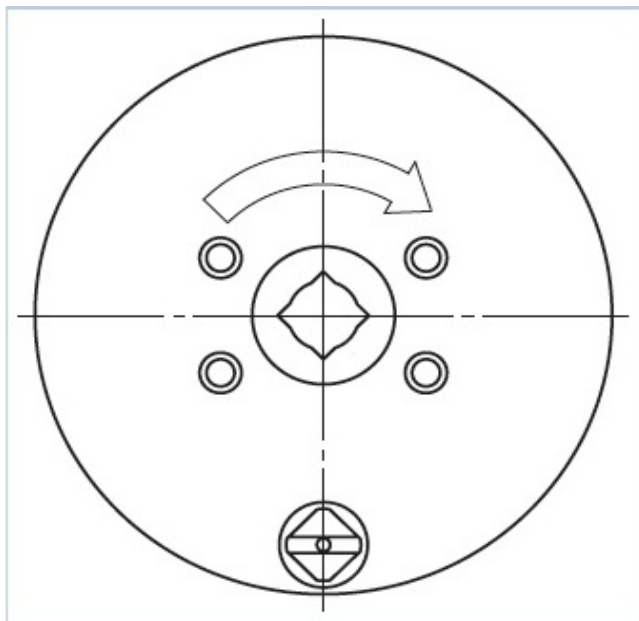
The elastomers of the butterfly valves contain materials, which reduce the surface friction. For the application of lubricating products (e.g. milk) the torque is reduced as well. Cleansing media wash out the low-friction substances on the surface of the seals, thus entailing an increase of the torque.

The butterfly valves are designed to be controlled by actuators at the max. permissible operating temperature. The actuators provide torque characteristics, which are adjusted to the torque curve of the butterfly valves. The media pressure has no influence on the switching behavior. However, high flow rates support the closing. Here, the speed has to be reduced by suitable means (throttle check valves in the compressed air line).

Type	NC (Normally Closed)	NO (Normally Open)	Reinforced
Functional Principles	A/S	A/S	A/S
Torque Curve			
Connection for Compressed Air	5 - 8 bar	5 - 8 bar	5 - 8 bar
Characteristics	An open valve requires low torque and upon immersion of the flap into the sealing the torque is significantly increased. In closed position the maximum torque is provided. The butterfly valves is closed in the initial position.	These actuators have exactly opposite torque curves compared to NC. The butterfly valves is open in the initial position.	This actuators has combined the torque characteristic of NC and NO. In both final positions the maximum torque is provided.

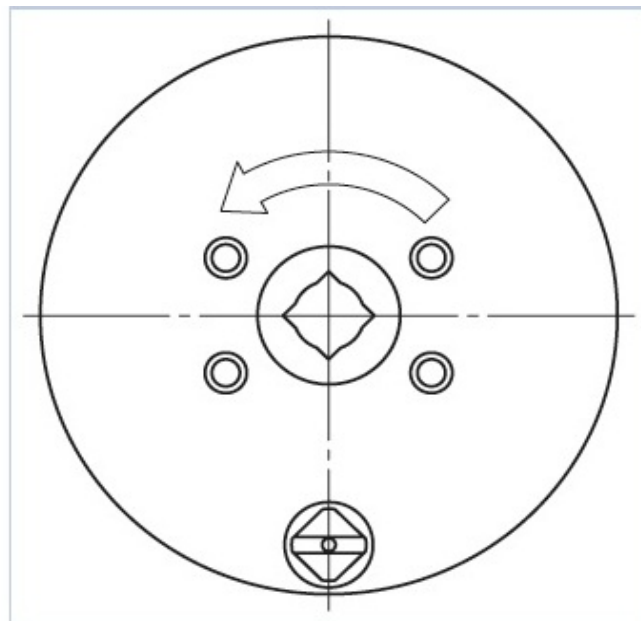
Clockwise

viewing the drive shank from below



Counterclockwise

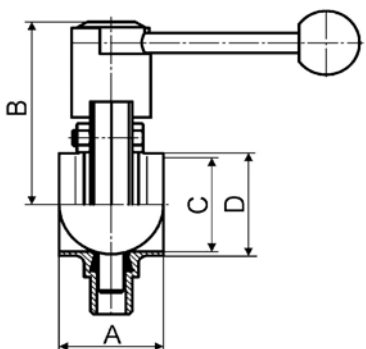
viewing the drive shank from below

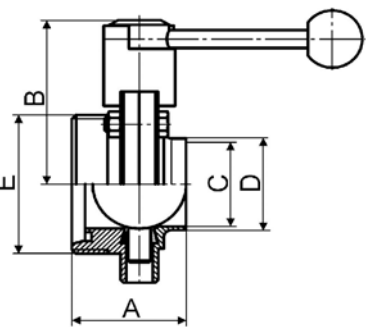


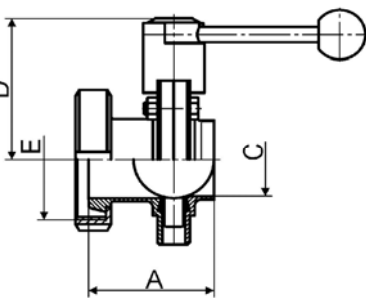
Note:

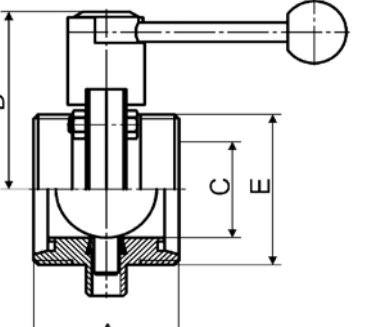
The position feedback has to be checked accordingly. Leakage valves can only be operated with a actuator that provides clockwise rotation!

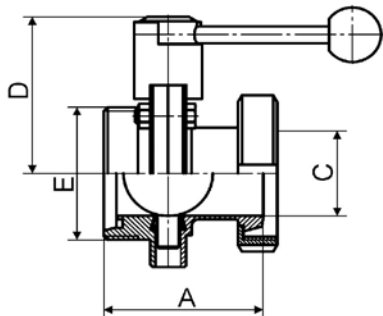
Type	MINI	NC and NO	Air/Air
Functional Principles	A/S	A/S	A/A
Torque Curve			
Connection for Compressed Air	5 - 8 bar	5 - 8 bar	5 - 8 bar
Characteristics	This is a actuator with the torque characteristic NC	The torque curve is analogous to the reinforced design, yet on a lower level.	Due to the construction, the version air/air has a high torque at very low pressure. Typical application for T-butterfly valve.

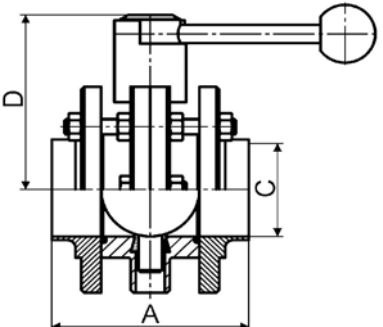
NW	A	B	C	D	E	Btfl. valve DIN welding ends Vlinderklep DIN las/las
25	40	90	26	31		
32	42	92	32	37		
40	50	94	38	43		
50	50	101	50	55		
65	50	110	66	71		
80	60	123	81	87		
100	64	134	100	106		
125	112	168	125	132		
150	124	183	150	157		

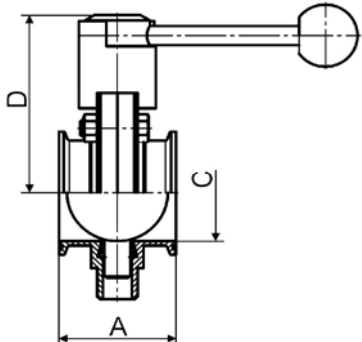
NW	A	B	C	D	E	Btfl. valve DIN male/welding ends Vlinderklep DIN las/draad
25	52	90	26	31	Rd 52x1/6"	
32	53	92	32	37	Rd 58x1/6"	
40	61	94	38	43	Rd 65x1/6"	
50	61	101	50	55	Rd 78x1/6"	
65	63	110	66	71	Rd 95x1/6"	
80	80	123	81	87	Rd 110x1/4"	
100	84	134	100	106	Rd 130x1/4"	
125	112	168	125	132	Rd 160x1/4"	
150	124	183	150	157	Rd 190x1/4"	

NW	A	B	C	D	E	Btfl. valve DIN liner/welding ends Vlinderklep DIN las/punt+wartel
25	74		26	90	Rd 52x1/6"	
32	78		32	92	Rd 58x1/6"	
40	87		38	94	Rd 65x1/6"	
50	89		50	101	Rd 78x1/6"	
65	95		66	110	Rd 95x1/6"	
80	117		81	123	Rd 110x1/4"	
100	128		100	134	Rd 130x1/4"	
125	146		125	168	Rd 160x1/4"	
150	161		150	183	Rd 190x1/4"	

NW	A	B	C	D	E	Btfl. valve DIN male/male Vlinderklep DIN draad/draad
25	64		26	90	Rd 52x1/6"	
32	64		32	92	Rd 58x1/6"	
40	72		38	94	Rd 65x1/6"	
50	72		50	101	Rd 78x1/6"	
65	76		66	110	Rd 95x1/6"	
80	100		81	123	Rd 110x1/4"	
100	104		100	134	Rd 130x1/4"	
125	112		125	168	Rd 160x1/4"	
150	124		150	183	Rd 190x1/4"	

<i>Btfl. valve DIN male/liner</i> <i>Vlinderklep DIN draad/punt+wartel</i>	NW	A	B	C	D	E
	25	74		26	90	Rd 52x1/6"
	32	78		32	92	Rd 58x1/6"
	40	87		38	94	Rd 65x1/6"
	50	89		50	101	Rd 78x1/6"
	65	95		66	110	Rd 95x1/6"
	75/3"	107		72,9	124	Rd 104x1/6"
	80	117		81	123	Rd 110x1/4"
	100	128		100	134	Rd 130x1/4"
	125	146		125	168	Rd 160x1/4"
	150	161		150	183	Rd 190x1/4"

Butterfly valve DIN btw. Flangers <i>Vlinderklep DIN tussenflens</i>	NW	A	B	C	D	E
	25	90		26	90	
	32	90		32	92	
	40	100		38	94	
	50	100		50	101	
	65	100		66	110	
	80	136		81	123	
	100	136		100	134	
	125	168		125	168	
	150	168		150	183	
	200	112		200	220	

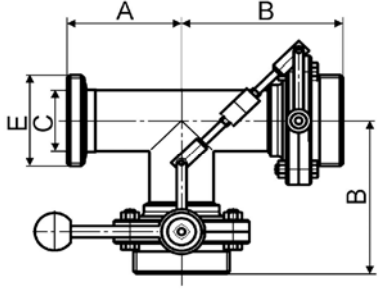
<i>Btfl. valve DIN CC</i> <i>Vlinderklep DIN TC/TC</i>	NW	A	B	C	D	E
	25	64		26	90	
	32	72		32	92	
	40	72		38	94	
	50	72		50	101	
	65	76		66	110	
	80	100		81	123	
	100	104		100	134	

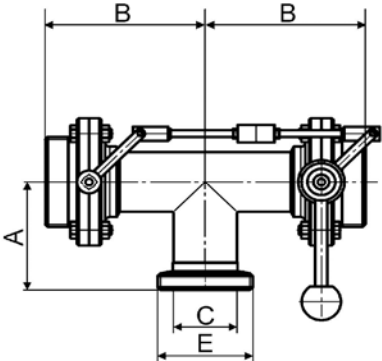
NW	A	B	C	D	E	T-butterfly valve DIN-male ends "A" T-vlinderklep DIN 3x draad "A"
25	72	102	26		Rd 52x1/6"	
32	77	108	32		Rd 58x1/6"	
40	82	121	38		Rd 65x1/6"	
50	93	131	50		Rd 78x1/6"	
65	105	143	66		Rd 95x1/6"	
80	115	170	81		Rd 110x1/4"	
100	130	184	100		Rd 130x1/4"	

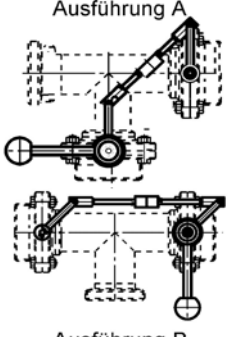
NW	A	B	C	D	E	T-butterfly valve DIN-male ends "D" T-vlinderklep DIN 3x draad "D"
25	72	102	26		Rd 52x1/6"	
32	77	108	32		Rd 58x1/6"	
40	82	121	38		Rd 65x1/6"	
50	93	131	50		Rd 78x1/6"	
65	105	143	66		Rd 95x1/6"	
80	115	170	81		Rd 110x1/4"	
100	130	184	100		Rd 130x1/4"	

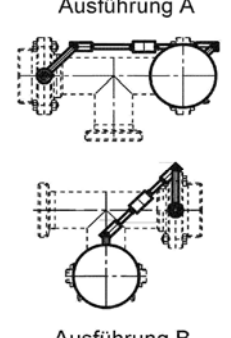
NW	A	B	C	D	E	T-butterfly valve DIN-male ends "B" T-vlinderklep DIN 3x draad "B"
25	102	72	26		Rd 52x1/6"	
32	108	77	32		Rd 58x1/6"	
40	121	82	38		Rd 65x1/6"	
50	131	93	50		Rd 78x1/6"	
65	143	105	66		Rd 95x1/6"	
80	170	115	81		Rd 110x1/4"	
100	184	130	100		Rd 130x1/4"	

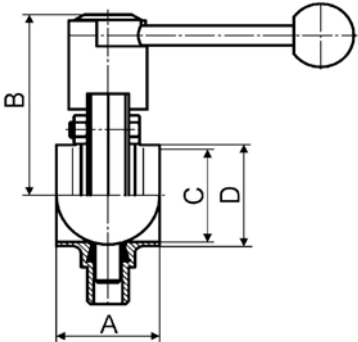
NW	A	B	C	D	E	T-butterfly valve DIN-male ends "E" T-vlinderklep DIN 3x draad "E"
105	102	203	26		Rd 52x1/6"	
118	108	215	32		Rd 58x1/6"	
130	121	241	38		Rd 65x1/6"	
143	131	261	50		Rd 78x1/6"	
155	143	285	66		Rd 95x1/6"	
167	170	339	81		Rd 110x1/4"	
180	184	367	100		Rd 130x1/4"	

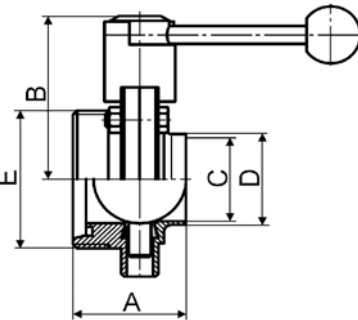
Butterfly valve combination Vlinderklepschakelcombinatie "haaks"	NW	A	B	C	D	E
	25	102	72	26		Rd 52x1/6"
	32	108	77	32		Rd 58x1/6"
	40	121	82	38		Rd 65x1/6"
	50	131	93	50		Rd 78x1/6"
	65	143	105	66		Rd 95x1/6"
	80	170	115	81		Rd 110x1/4"
	100	184	130	100		Rd 130x1/4"

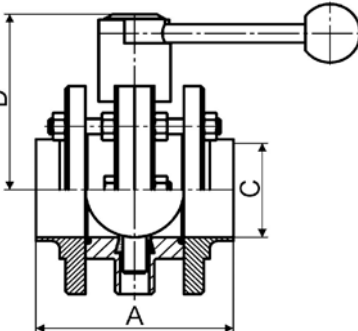
Butterfly valve combination Vlinderklepschakelcombinatie "recht"	NW	A	B	C	D	E
	25	72	102	26		Rd 52x1/6"
	32	77	108	32		Rd 58x1/6"
	40	82	121	38		Rd 65x1/6"
	50	93	131	50		Rd 78x1/6"
	65	105	143	66		Rd 95x1/6"
	80	115	170	81		Rd 110x1/4"
	100	130	184	100		Rd 130x1/4"

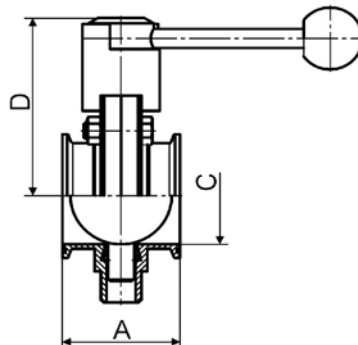
Butterfly valve combination Vlinderklepschakelcombinatie	NW	A	B	C	D	E
	25					
	32					
	40					
	50					
	65					
	80					
	100					

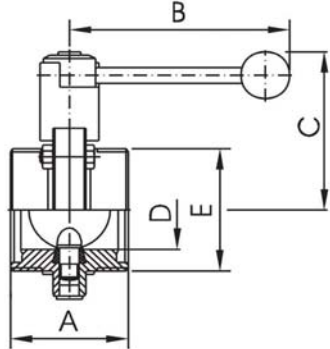
Butterfly valve combination + actuator Vlinderklepschakelcombinatie + actuator	NW	A	B	C	D	E
	25					
	32					
	40					
	50					
	65					
	80					
	100					

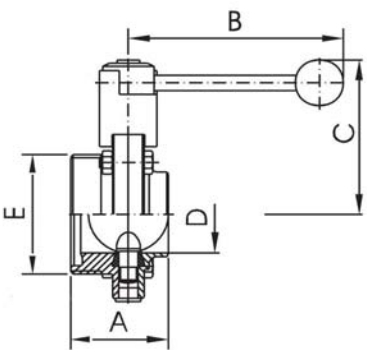
NW	A	B	C	D	E	Btfl. valve Inch welding ends Vlinderklep Inch las/las
1"	90	90	22,9	25,4		
1,5"	94	94	35,1	38,1		
2"	101	101	47,8	50,8		
2,5"	110	110	60,5	63,5		
3"	123	123	72,1	76,1		
4"	134	134	97,6	101,6		

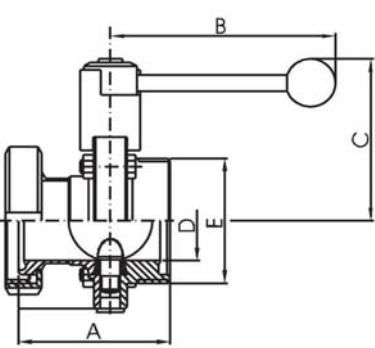
NW	A	B	C	D	E	Btfl. valve Inch male/welding ends Vlinderklep Inch las/draad
1"	51	90	22,9	25,4	Rd 52x1/6"	
1,5"	60	94	35,1	38,1	Rd 65x1/6"	
2"	60	101	47,8	50,8	Rd 78x1/6"	
2,5"	61,5	110	60,5	63,5	Rd 95x1/6"	
3"	75	123	72,1	76,1	Rd 104x1/6"	
4"	83	134	97,6	101,6	Rd 130x1/4"	

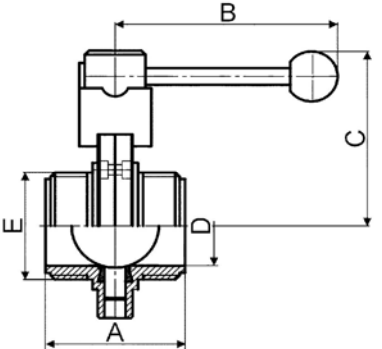
NW	A	B	C	D	E	Butterfly valve Inch btw. Flangers Vlinderklep Inch tussenflens
1"	88		22,9	90		
1,5"	98		35,1	94		
2"	98		47,8	101		
2,5"	98		60,5	110		
3"	136		72,1	123		
4"	134		97,6	134		

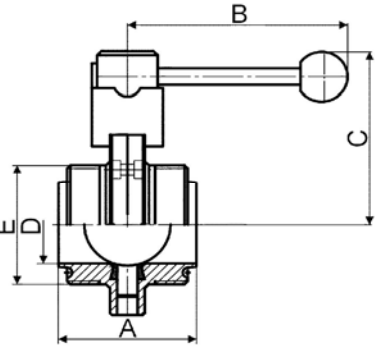
NW	A	B	C	D	E	Btfl. valve Inch CC Vlinderklep Inch TC/TC
1"	64		22,9	90		
1,5"	72		35,1	94		
2"	72		47,8	101		
2,5"	76		60,5	110		
3"	90		72,1	123		
4"	104		97,6	134		

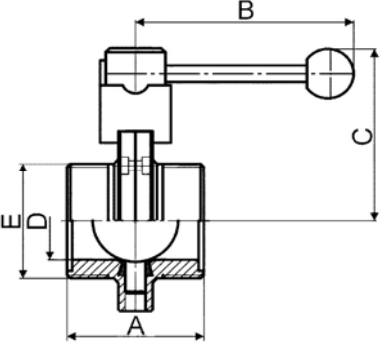
Butterfly valve 11864/1 male/male Vlinderklep 11864/1 draad/draad	NW	A	B	C	D	E
	10	78	105	79	10	Rd 28x1/8"
	15	78	105	79	16	Rd 34x1/8"
	20	82	105	79	20	Rd 44x1/8"
	25	64	107	90	26	Rd 52x1/6"
	32	64	107	92	32	Rd 58x1/6"
	40	82	137	94	38	Rd 65x1/6"
	50	72	137	101	50	Rd 78x1/6"
	65	76	137	110	66	Rd 95x1/6"
	80	100	167	123	81	Rd 110x1/4"
	100	104	167	134	100	Rd 130x1/4"

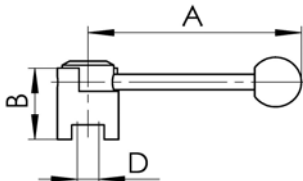
Butterfly valve 11864/1 welding/male Vlinderklep 11864/1 las/draad	NW	A	B	C	D	E
	10	59	105	79	10	Rd 28x1/8"
	15	59	105	79	16	Rd 34x1/8"
	20	61	105	79	20	Rd 44x1/8"
	25	52	107	90	26	Rd 52x1/6"
	32	53	107	92	32	Rd 58x1/6"
	40	61	137	94	38	Rd 65x1/6"
	50	61	137	101	50	Rd 78x1/6"
	65	63	137	110	66	Rd 95x1/6"
	80	80	167	123	81	Rd 110x1/4"
	100	84	167	134	100	Rd 130x1/4"

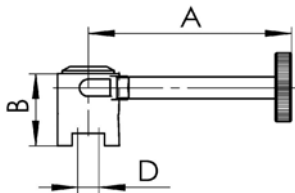
Butterfly valve 11864/1 male/liner Vlinderklep 11864/1 draad/punt	NW	A	B	C	D	E
	10	76	105	79	10	Rd 28x1/8"
	15	76	105	79	16	Rd 34x1/8"
	20	79	105	79	20	Rd 44x1/8"
	25	74	107	90	26	Rd 52x1/6"
	32	78	107	92	32	Rd 58x1/6"
	40	87	137	94	38	Rd 65x1/6"
	50	91	137	101	50	Rd 78x1/6"
	65	97	137	110	66	Rd 95x1/6"
	80	118	167	123	81	Rd 110x1/4"
	100	130	167	134	100	Rd 130x1/4"

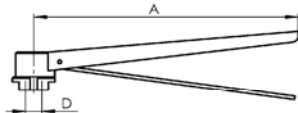
NW	A	B	C	D	E	Btfl. valve IDF male/male Vlinderklep IDF draad/draad
1"	72	107	90	22,9	1"	
1,5"	72	137	94	35,1	1 1/2"	
2"	72	137	101	47,8	2"	
2,5"	76	137	110	60,5	2 1/2"	
3"	90	167	123	72,1	3"	

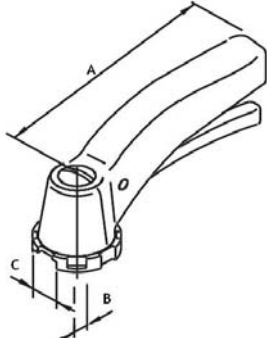
NW	A	B	C	D	E	Btfl. valve RJT male/male Vlinderklep RJT draad/draad
1"	74	107	90	22,9	Rd 46,0x1/8"	
1,5"	82	137	94	35,1	Rd 58,7x1/8"	
2"	82	137	101	47,8	Rd 73,0x1/6"	
2,5"	86	137	110	60,5	Rd 85,7x1/6"	
3"	100	167	123	72,1	Rd 98,4x1/6"	

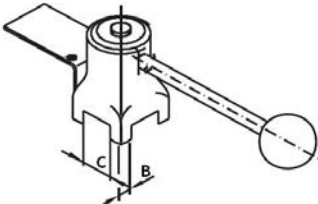
NW	A	B	C	D	E	Btfl. valve SMS male/male Vlinderklep SMS draad/draad
1"	64	107	90	22,5	Rd 40x1/6"	
1,5"	72	137	94	35,5	Rd 60x1/6"	
2"	72	137	101	48,5	Rd 70x1/6"	
2,5"	76	137	110	60,5	Rd 85x1/6"	
3"	90	167	123	72,1	Rd 98x1/6"	
4"	104	167	134	97,6	Rd 132x1/6"	

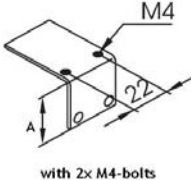
Butterfly valve handle-standard Vlinderklephandbediening standaard	NW	A	B	C	D	E
	25 - 32	137			9,5	
	40 - 65	137			9,5	
	75/3" - 100	167			9,5	
	125 - 150	248			14	
	200	276			14	

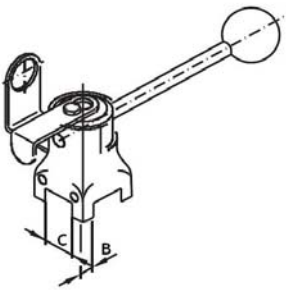
Butterfly valve handle-stepless Vlinderklephandbediening traploos	NW	A	B	C	D	E
	25 - 65	126			9,5	
	75/3" - 100	145			14	
	125 - 200	233			14	

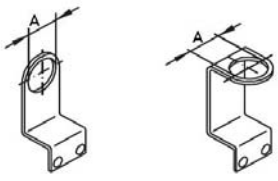
Butterfly valve handle-scissors Vlinderklephandbediening scheerkneep	NW	A	B	C	D	E
	25 - 65	145			9,5	
	75/3" - 100	145			9,5	

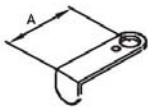
Butterfly valve handle Vlinderklephandbediening	NW	A	B	C	D	E
	10 - 40	105	9,5	10		
	50 - 65	166	9,5	10		
	80 - 100	166	9,5	16		

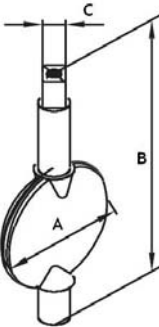
NW	A	B	C	D	E	Btfl. Valve hdl for limit switch Vlinderklepbediening voor microswitch
25 - 32		9,5	20			
40 - 65		9,5	20			
75/3" - 100		9,5	32			
125 - 150		14	32			
200		14	32			

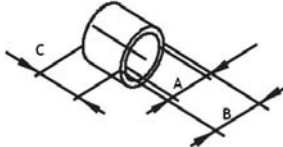
NW	A	B	C	D	E	Holding device hdl limit switch Vlinderklep houder microswitch
25 - 65	15					
75/3" - 100	20					
125 - 150	25					

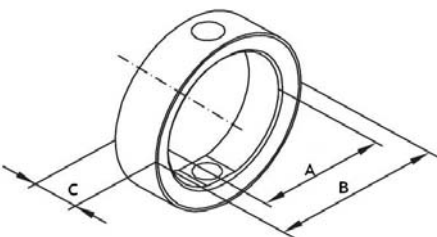
NW	A	B	C	D	E	Btfl. Valve hdl for prox. Switch Vlinderklepbediening voor initiator
Horizontal						
25 - 32		9,5	20			
40 - 65		9,5	20			
75/3" - 100		9,5	32			
125 - 150		14	32			
200		14	32			
Vertical						
25 - 32		9,5	20			
40 - 65		9,5	20			
75/3" - 100		9,5	32			
125 - 150		14	32			
200		14	32			

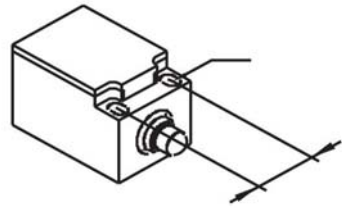
NW	A	B	C	D	E	Holding device hdl prox. Switch Vlinderklep houder voor initiator
25 - 65	18,3					
80 - 100	18,3					
125 - 200	18,3					
25 - 65	12,3					
80 - 100	12,3					
125 - 200	12,3					

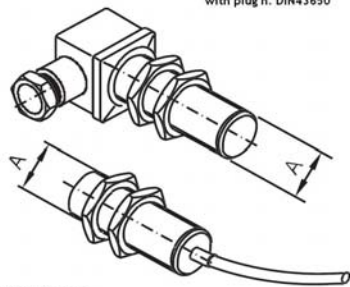
Holding plate handle prox. Switch Vlinderklep plaatje prox. Switch	NW	A	B	C	D	E
 with 1x M4-bolt	25 - 100	45				
	125 - 200	55				

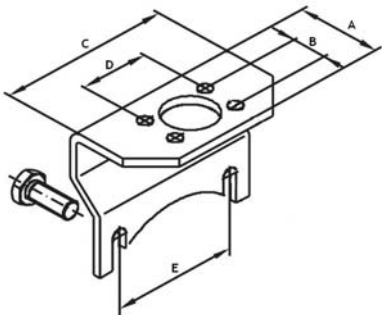
Butterfly valve disc Vlinderklep spindel	NW	A	B	C	D	E
	25	26,2	80,5	9,5		
	32	32,2	88	9,5		
	40	38,2	94	9,5		
	50	50,2	111,5	9,5		
	65	66,2	128,5	9,5		
	75/3"	71,1	142	9,5		
	80	81,2	144	9,5		
	100	100,2	164	9,5		
	125	125,2	207	14		
	150	150,8	236,5	14		
	200	200	320	14		

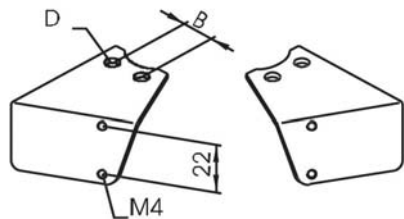
Butterfly valve bushing Spindel busje	NW	A	B	C	D	E
	25	10	12	5		
	32	10	12	5		
	40	12	14	10		
	50	12	14	10		
	65	12	14	10		
	75/3"	14	16	12		
	80	14	16	12		
	100	14	16	12		
	125	18	20	18		
	150	18	20	18		
	200	22	26	30		

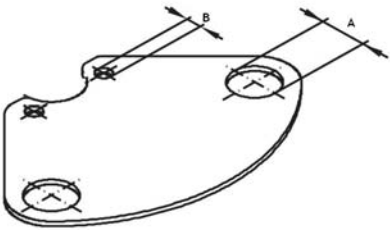
Butterfly valve seal Vlinderklepzitting	NW	A	B	C	D	E
	25	26	40	20	available in:	silicone
	32	32	48	20		epdm
	40	38	54	21		viton
	50	51	67	21		hnbr
	65	67	85	22		
	75/3"	74	93	24		
	80	82	101	24		
	100	101	116	26		
	125	125	151	29		
	150	150	175	29		
	200	203	230	37		

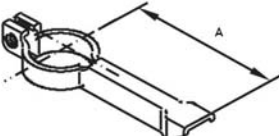
NW	A	B	C	D	E	Limit switch Micro switch
25 - 200						 with 2x M4-bolts

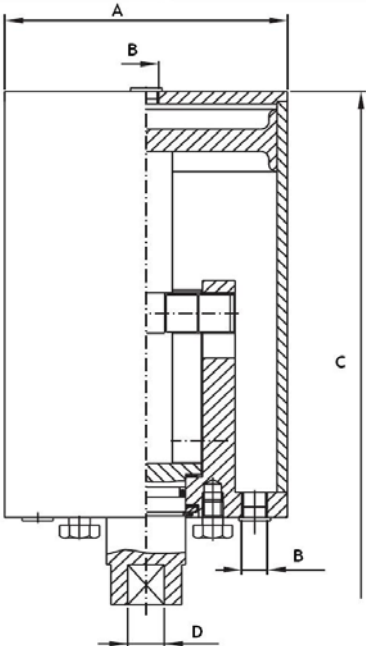
NW	A	Proximity switch inductiv Benaderingsschakelaar			
25 - 200	M 18x1	Type	IP 67	IP 65	 with plug n. DIN43650 with 2mtr cable
	M 12x1	Voltage	10 - 36V	10 - 36V	
		Exit	+	+	
		Diagram			
		Connection	PNP	PNP	
		max. switching	200mA	200mA	

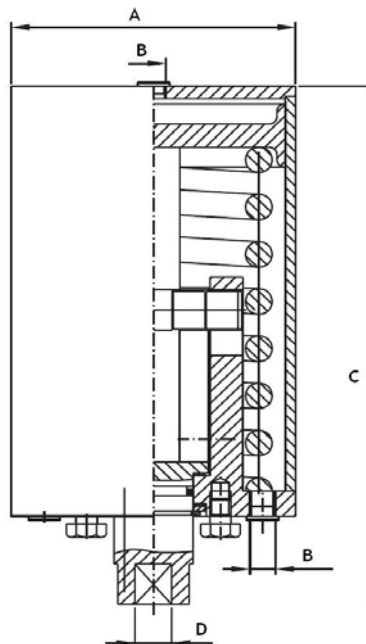
NW	A	B	C	D	E	Holding device butterfly valve Vlinderklepconsole
25	52	17,6	78	30,3	51,5	
32	52	17,6	82	30,3	55	
40	52	17,6	86	30,3	58	
50	52	17,6	96	30,3	67,5	
65	52	17,6	108	30,3	79,5	
75/3"	59	17,6	118	30,3	90	
80	59	17,6	118	30,3	90	
100	59	17,6	132	30,3	104	
125	59	25,4	118	44	90	
150 - 200	59	25,4	132	44	105	

NW	A	B	C	D	E	Holding device mech. Limit switch Vlinderklephouder micro switch
25 - 100		17,6		5,5		
125 - 200		25,4		9		

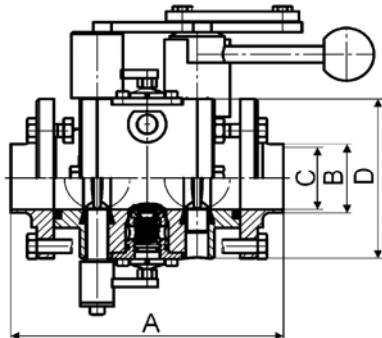
Holding device prox. Switch open/shut Vlinderkl.houder benaderingsschakelaars	NW	A	B	C	D	E
	25 - 100	18,3	6			
		12,3	6			
	125 - 200	18,3	9			
		12,3	9			

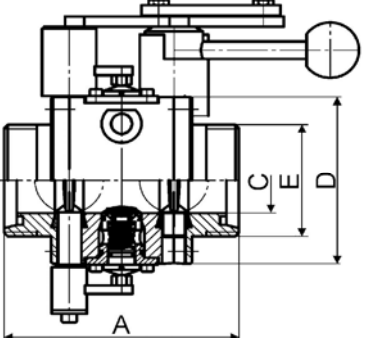
Signal contact arm for btfl. Valve Vlinderklep vaan	NW	A	B	C	D	E
	25 - 100	72				
	125 - 200	92				

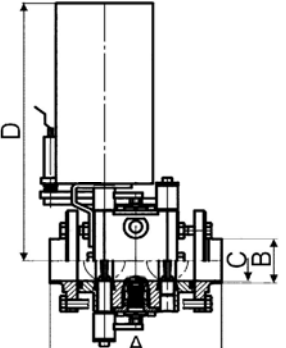
NW	A	B	C	D	E	Actuator pneum. air/air Vlinderklep aandrijving lucht/lucht
25	89,0	R 1/8"	236	9,5		
32	89,0	R 1/8"	238	9,5		
40	89,0	R 1/8"	241	9,5		
50	89,0	R 1/8"	247	9,5		
65	89,0	R 1/8"	256	9,5		
75/3"	89,0	R 1/8"	263	9,5		
80	89,0	R 1/8"	263	9,5		
100	89,0	R 1/8"	273	9,5		
125	129	R 1/8"	332	14		
150	129	R 1/8"	347	14		
200	129	R 1/8"	385	14		

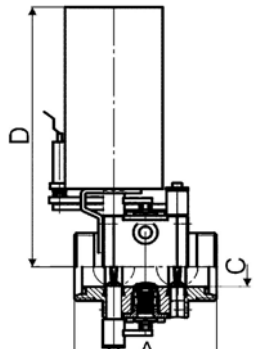
NW	A	B	C	D	E	Actuator pneum. air/spring Vlinderklep aandrijving lucht/veer
25	85	R 1/8"	226	9,5		
32	85	R 1/8"	228	9,5		
40	85	R 1/8"	231	9,5		
50	85	R 1/8"	237	9,5		
65	85	R 1/8"	246	9,5		
75/3"	85	R 1/8"	253	9,5		
80	85	R 1/8"	253	9,5		
100	85	R 1/8"	263	9,5		
125	129	R 1/8"	332	14		
150	129	R 1/8"	347	14		
200	129	R 1/8"	385	14		
Solid execution						
25	104	R 1/8"	270	9,5		
32	104	R 1/8"	272	9,5		
40	104	R 1/8"	275	9,5		
50	104	R 1/8"	281	9,5		
65	104	R 1/8"	290	9,5		
75/3"	104	R 1/8"	297	9,5		
80	104	R 1/8"	297	9,5		
100	104	R 1/8"	307	9,5		

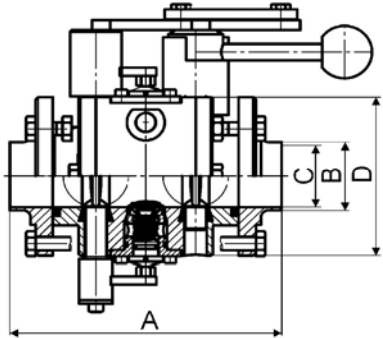
Mini execution					
25 - 50	76	R 1/8"	-	9,5	

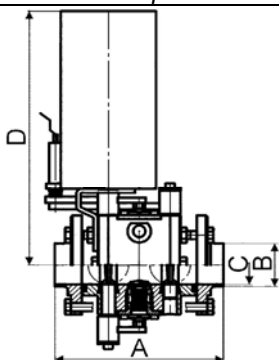
NW	A	B	C	D	E	Leakage btfl. valve DIN btw. Flanges Lekdetect. Vlinderklep DIN tussenflens
25	138	31	26	87		
32	138	37	32	92		
40	148	43	38	97		
50	151	55	50	110		
65	167	72	66	127		
80	194	87	81	142		
100	194	106	100	162		

NW	A	B	C	D	E	Leakage btfl. valve DIN male/male Lekdetect. Vlinderklep DIN draad /draad
25	112		26	87	Rd 52x1/6"	
32	112		32	92	Rd 58x1/6"	
40	120		38	97	Rd 65x1/6"	
50	123		50	110	Rd 78x1/6"	
65	143		66	127	Rd 95x1/6"	
80	158		81	142	Rd 110x1/4"	
100	162		100	162	Rd 130x1/4"	

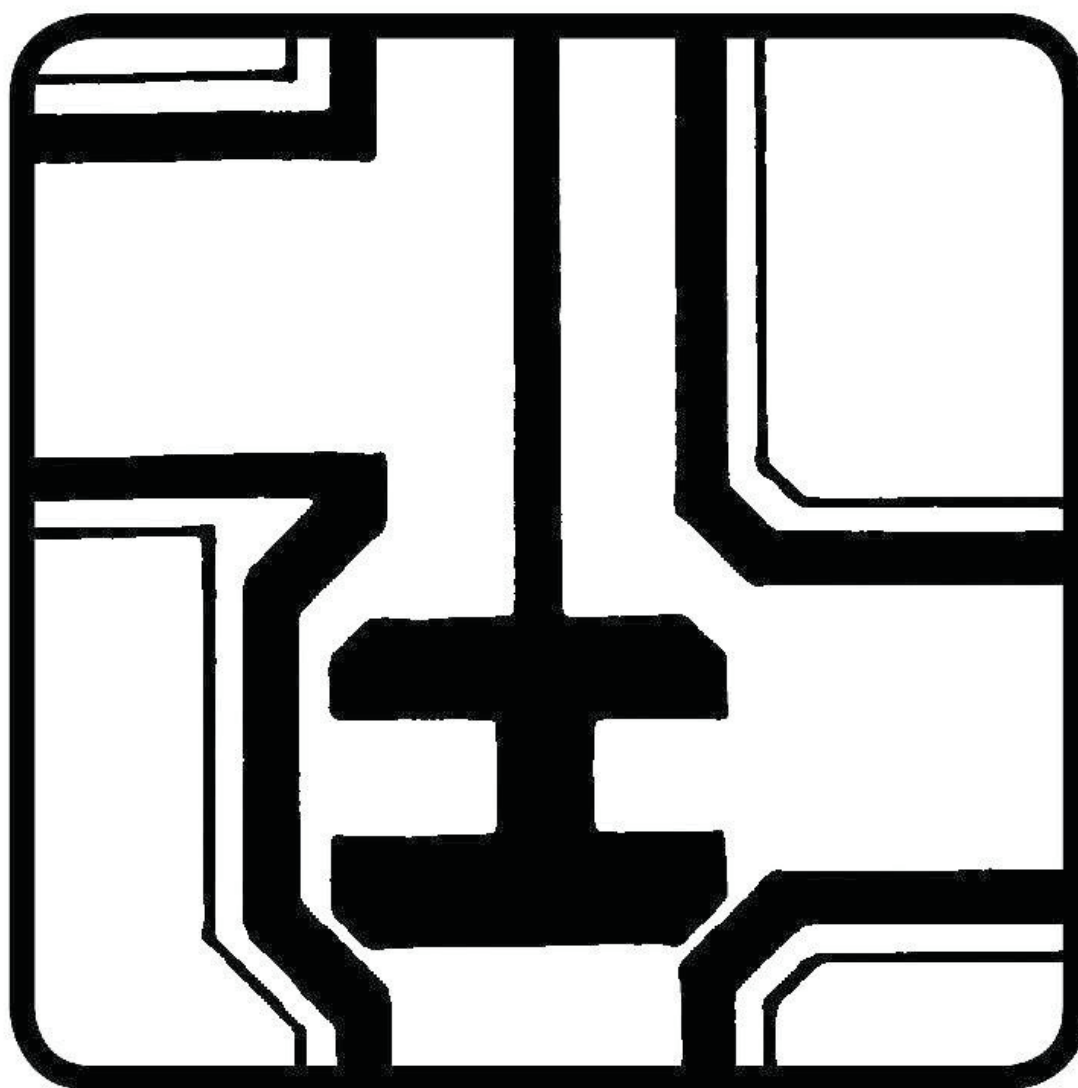
NW	A	B	C	D	E	Leakage btfl. valve DIN btw. Flanges Lekdetect. Vlinderklep DIN tussenflens
25	138	31	26	253		
32	138	37	32	255		
40	148	43	38	258		
50	151	55	50	264		
65	167	72	66	315		
80	194	87	81	322		
100	194	106	100	332		

NW	A	B	C	D	E	Leakage btfl. valve DIN male/male Lekdetect. Vlinderklep DIN draad /draad
25	112		26	253	Rd 52x1/6"	
32	112		32	255	Rd 58x1/6"	
40	120		38	258	Rd 65x1/6"	
50	123		50	264	Rd 78x1/6"	
65	143		66	315	Rd 95x1/6"	
80	158		81	322	Rd 110x1/4"	
100	162		100	332	Rd 130x1/4"	

Leakage btfl. Valve Inch btw. Flanges <i>Lekdetect. Vlinderklep Inch tussenflens</i>	NW	A	B	C	D	E
	1"	138	25,5	22,2	87	
	1,5"	138	38,1	34,8	97	
	2"	148	50,8	47,6	110	
	2,5"	151	63,5	60,3	127	
	3"	167	76,1	72,9	142	
	4"	194	101,6	97,4	162	

Leakage btfl. Valve Inch btw. Flanges <i>Lekdetect. Vlinderklep Inch tussenflens</i>	NW	A	B	C	D	E
	1"	138	25,5	22,2	253	
	1,5"	138	38,1	34,8	258	
	2"	148	50,8	47,6	264	
	2,5"	151	63,5	60,3	315	
	3"	167	76,1	72,9	322	
	4"	194	101,6	97,4	332	

7.0 - *Single Seat valves*
Mix-proof valves

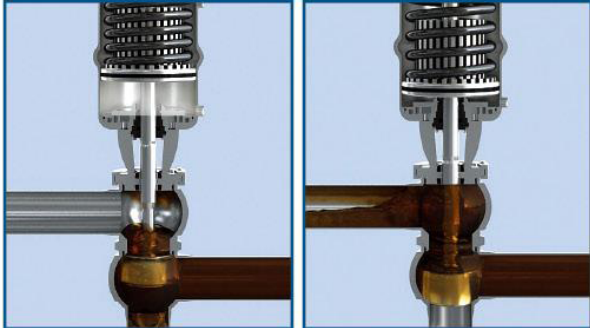


7.0



Sanitary
single seat valve

Sanitary single seat valve



Applications:

Single-seat valve Series Applications: DZ3 single-seat valve with very flexible and meets the design of sanitary requirements, mainly used in the area which is no contamination or mixing of the pipeline system, it is a modern and widely-used valve, the main applied to wine, dairy, beverages. pharmaceutical and other industries.

Operating Principles:

DZ3 series of single-seat valve series is remotely operated through compressing air. By controlling the relative position of valve mandril to open or close (shut-off type), or to change the direction of media flow (change-over type).

DZ3 single-seat valve series is equipped with aomi's ZK3 intelligent controller not only can achieve in-time monitoring and timely feedback of signal the single-seat valve of the remote control, but also can achieve real-time of the valve working condition and signal the timely feedback. Also Only can be equipped with the position sensors.

DZ3 single-seat valve series by installing the adapter board burkert company's 1066 controller.



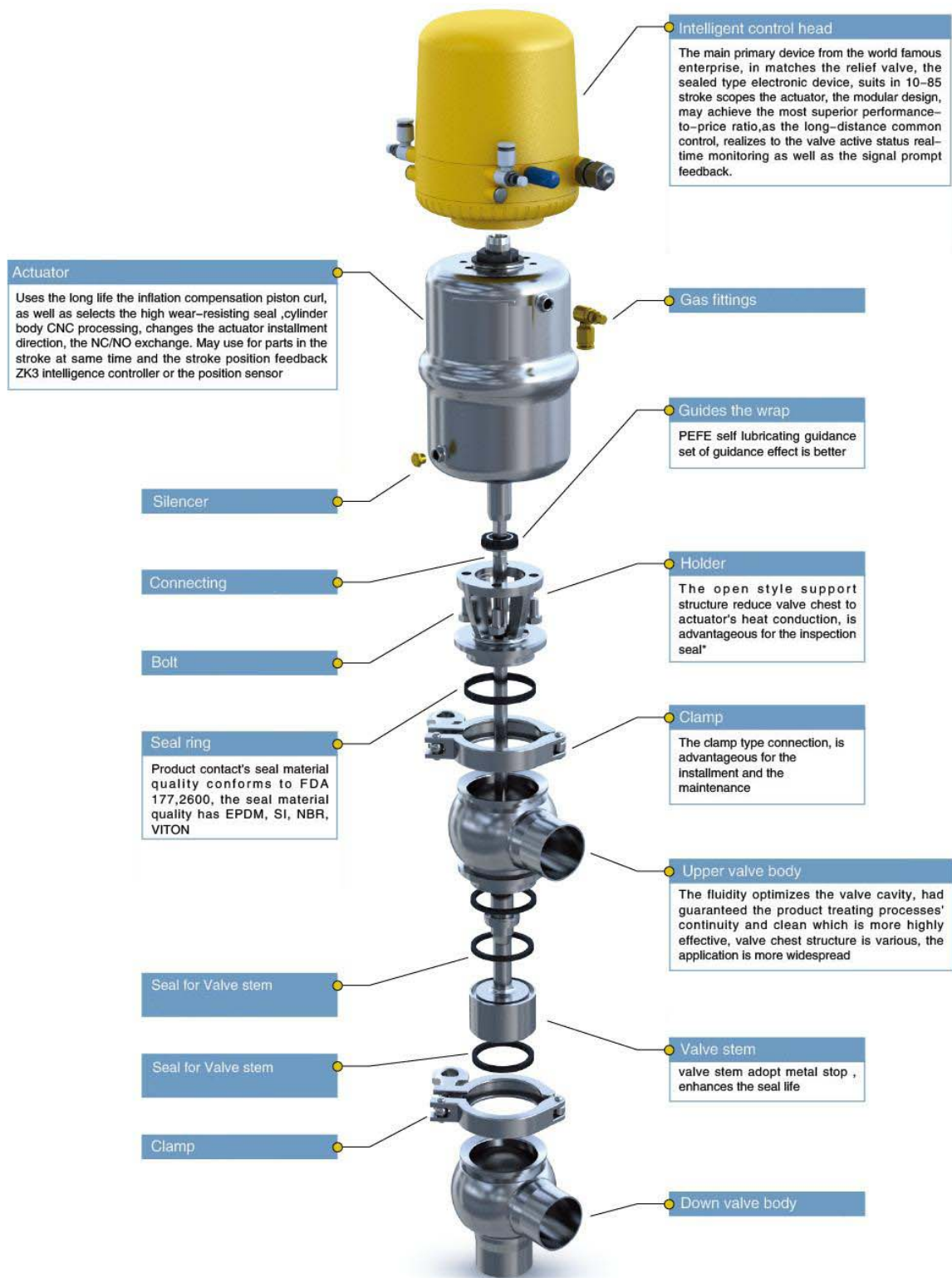
Intelligent Controller



Position Sensor

Actuator function:

- downward movement by pneumatic actuator, spring reset
- up movement by pneumatic actuator, spring reset
- up or downward movement by pneumatic actuator



*DZ3 series of single-seat valves: all the diameters are with the identical installation dimensions of valve actuator, so that the access of all the diameter of valve body can match the actuator and meet different customer requirements of working pressure on valve.

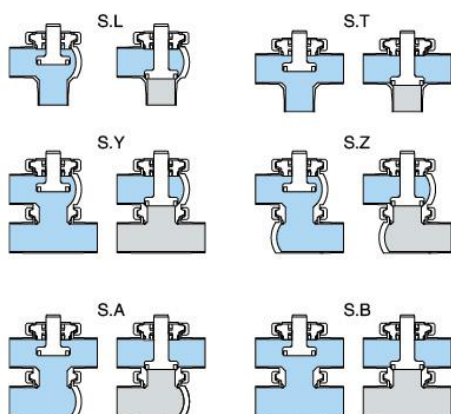
Sanitary single seat valve

Technical data

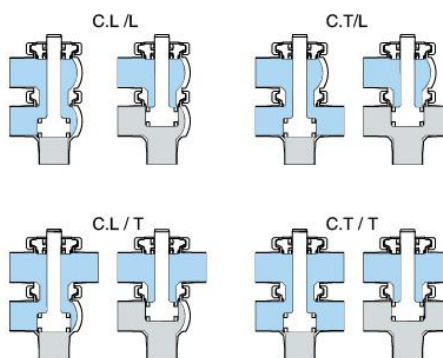
Material	Contact product parts	316L(1.4404)
	non-contact product parts	304(1.4301)
	Provide E N 10204 3.1B certificate	
Seal material	Standard	EPDM
	Option	NBR、FPM、Silicone
	All seal materials comply with FDA 177.2600	
Temperature	Running working temperature	-20~+135℃ (EPDM)
	Sterilization temperature	150℃ (Max 20min)
Pressure	Working pressure	0~5bar(standard)
	Accepting high pressure requirement	
	Control air pressure	5~8bar
Surface treatment	Internal surface	Ra ≤ 0.8μm
	External surface	Grit blasting
Connection	Connection standard	welded end: DIN 11850 series2
		welded end: INCH pipe standard
	Connection method: welding、thread、clamp、flange	
Option	Intelligent controller	24V DC
		1/2 electromagnetism valve
	Position sensor	24V DC
		2 NPN/PNP position sensor

Body type

SHUT-OFF Series

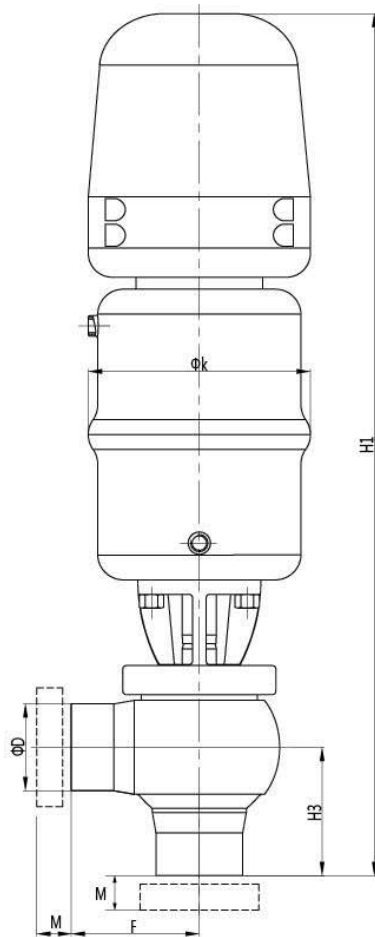


CHANGE-OVER Series

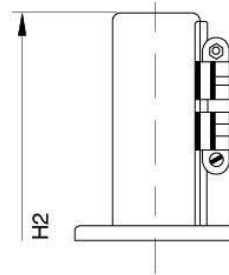


SHUF-OFF Series

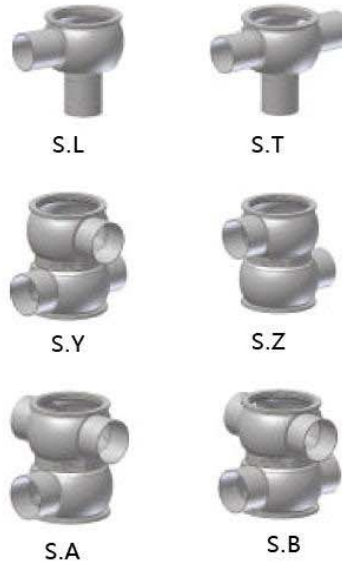
single seat valve with intelligent control



single seat valve with position sensor



body design



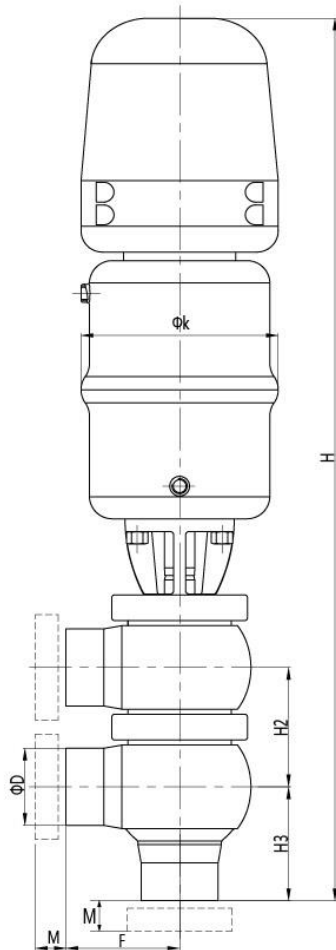
dimensions (mm)

DN	D	K	F	H1	H2	H3	M(clamp)
25	29x1.5	91	55	402	344	55	21.5
32	35x1.5	91	65	463.5	405.5	62.5	21.5
40	41x1.5	91	65	463.5	405.5	62.5	21.5
50	53x1.5	130	75	506.7	448.7	75	21.5
65	70x2.0	130	90	524.4	566.2	90	28
80	85x2.0	195	105	629.2	571.2	105	28
100	104x2.0	195	120	653.7	595.7	120	28
INCH							
1.0"	25.4x1.65	91	55	402	344	55	12.7
1.5"	38.1x1.65	91	65	463.5	405.5	62.5	12.7
2.0"	50.8x1.65	130	75	506.7	448.7	75	12.7
2.5"	63.5x1.65	130	85	522.5	564.2	85	12.7
3.0"	76.2x1.65	195	95	616.2	558.2	95	12.7
4.0"	101.6x2.11	195	120	653.7	595.7	120	15.8

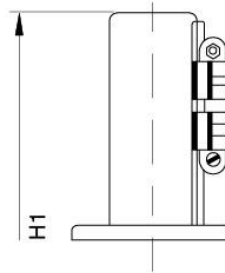
- Sanitary
single seat valve

CHANGE-OVER SERIES

single seat valve with intelligent control



single seat valve with position sensor



body design



C.L / L



C.T / L



C.L / T



C.T / T

dimensions (mm)

DN	D	K	F	H	H1	H2	H3	M(clamp)
25	29x1.5	91	65	452.3	394.3	50.3	55	21.5
32	35x1.5	91	65	529.5	471.5	66	62.5	21.5
40	41x1.5	91	65	529.5	471.5	66	62.5	21.5
50	53x1.5	130	75	585.3	527.3	78.6	75	21.5
65	70x2.0	130	90	618.7	560.7	94.3	90	28
80	85x2.0	195	105	739.5	581.5	110.3	105	28
100	104x2.0	195	120	792	724	128.3	120	28
INCH								
1.0"	25.4x1.65	91	65	452.3	394.3	50.5	55	12.7
1.5"	38.1x1.65	91	65	529.5	471.5	66	62.5	12.7
2.0"	50.8x1.65	130	75	585.3	527.3	78.6	75	12.7
2.5"	63.5x1.65	130	85	613	555	90.5	85	12.7
3.0"	76.2x1.65	195	95	719.2	661.2	103	95	12.7
4.0"	101.6x2.11	195	120	792	724	128.3	120	15.8



sanitary double
seat mix-proof valve

Sanitary double seat mix-proof valve



Opening



Parallel Working

Applications:

Double seat mix-proof valve application : used for protection mixing products in brewing , dairy and drink .etc

Operating Principles:

FH6/FH8 Basic double seat mix-proof valve is controled through compressed air . The valve is a normally closed (NC) valve. The double seat valve has two divided seals of valve disc . it has a interlinked cavity of leak between two seal at working . while it happen leaking , the products will inpour the cavity and flow away from exit .it will not caused pollution and mixing . the leaking cavity closed while the valve working .it is impossible to overflow for the products .so the products can be transported from one pipe to another . also the valve can be washing CIP .

double seat valve withZK3 intelligent control head . not only achieved remote control , and monitoring under working . can setting only transducer .

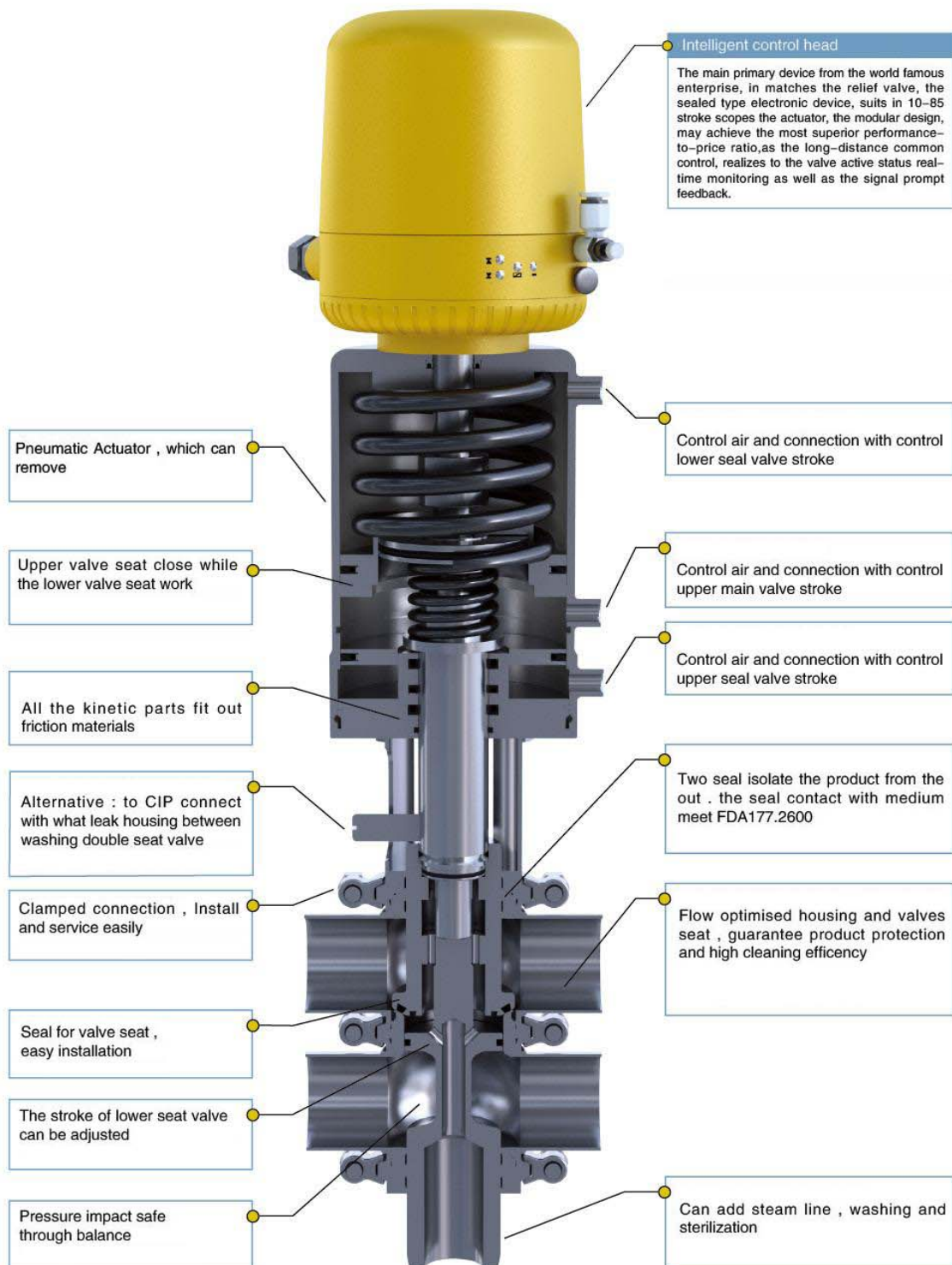
double seat valve can be controled with 1066 controller from Burkert company through setting adapter plate .



Intelligent Controller



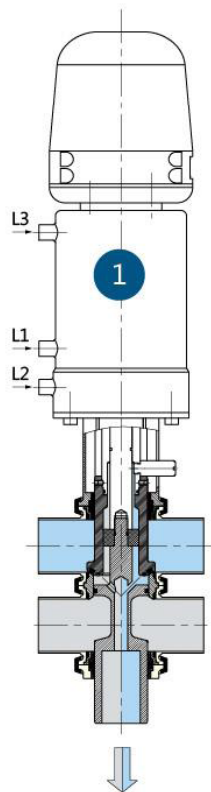
Position Sensor



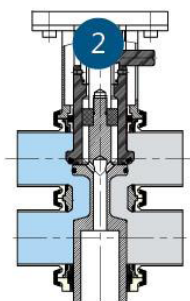
- Sanitary double seat mix-proof valve

FH6 SEAT LIFT

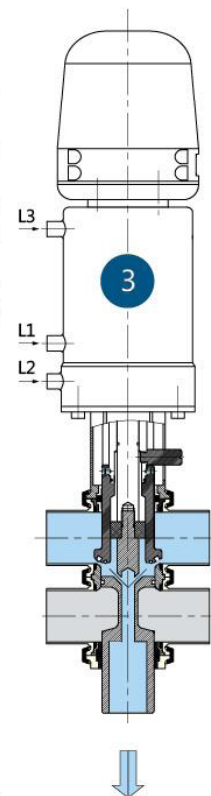
Basic function of FH6 series



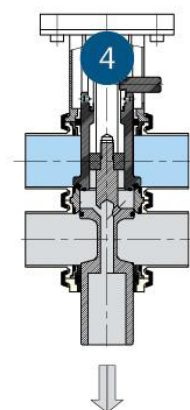
- ① Valve position "CLOSED"
- Control air pressure 0 bar on connection L 1 (main stroke)
 - Control air pressure 0 bar on connection L 2 (pulse stroke of top valve disk)
 - Control air pressure 0 bar on connection L 3 (pulse stroke of bottom valve disk)
 - Separation of two hostile media
 - Leakages, if any, are guided outwards through the leakage room in a depressurized state



- ② Valve position "OPEN"
- Control air pressure 6 bar on connection L 1
 - Bottom valve will lift and close the leakage room
 - Both valve disks in "open" position
 - Top and bottom rail will open in relation to each other



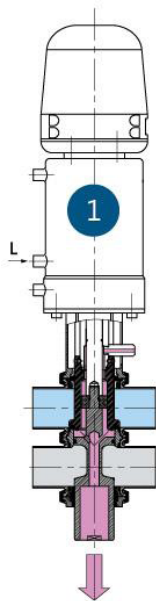
- ③ Cleaning the upper valve housing / valve seat
- Control air connection 6 bar on connection L 2
 - Top valve disk is lifted during cleaning process (adjustable stroke pulse) Set stroke pulse in accordance
 - Valve seat, valve disk seals or clearance and leakage exhaust pipe are cleaned



- ④ Cleaning of the lower seat via valve housing
- Control air pressure 6 bar on connection L 3
 - Bottom valve disk is lifted during cleaning procedure
 - Valve seat, valve disk seals or clearance and leakage exhaust pipe are cleaned

FH8 CAVITY SPRAY VALVE

Basic function of FH8 series

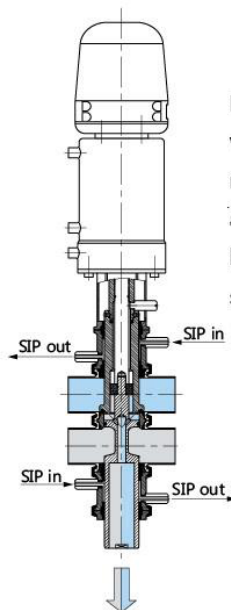
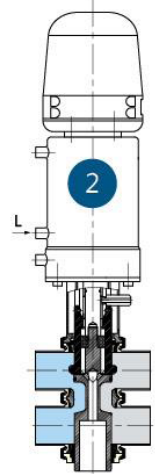


① Valve position "CLOSED"

- Control air pressure 0 bar connection
- Separation of two hostile media
- Leakages, if any, are guided outwards through the leakage room in a depressurized state

② Valve position ,OPEN "

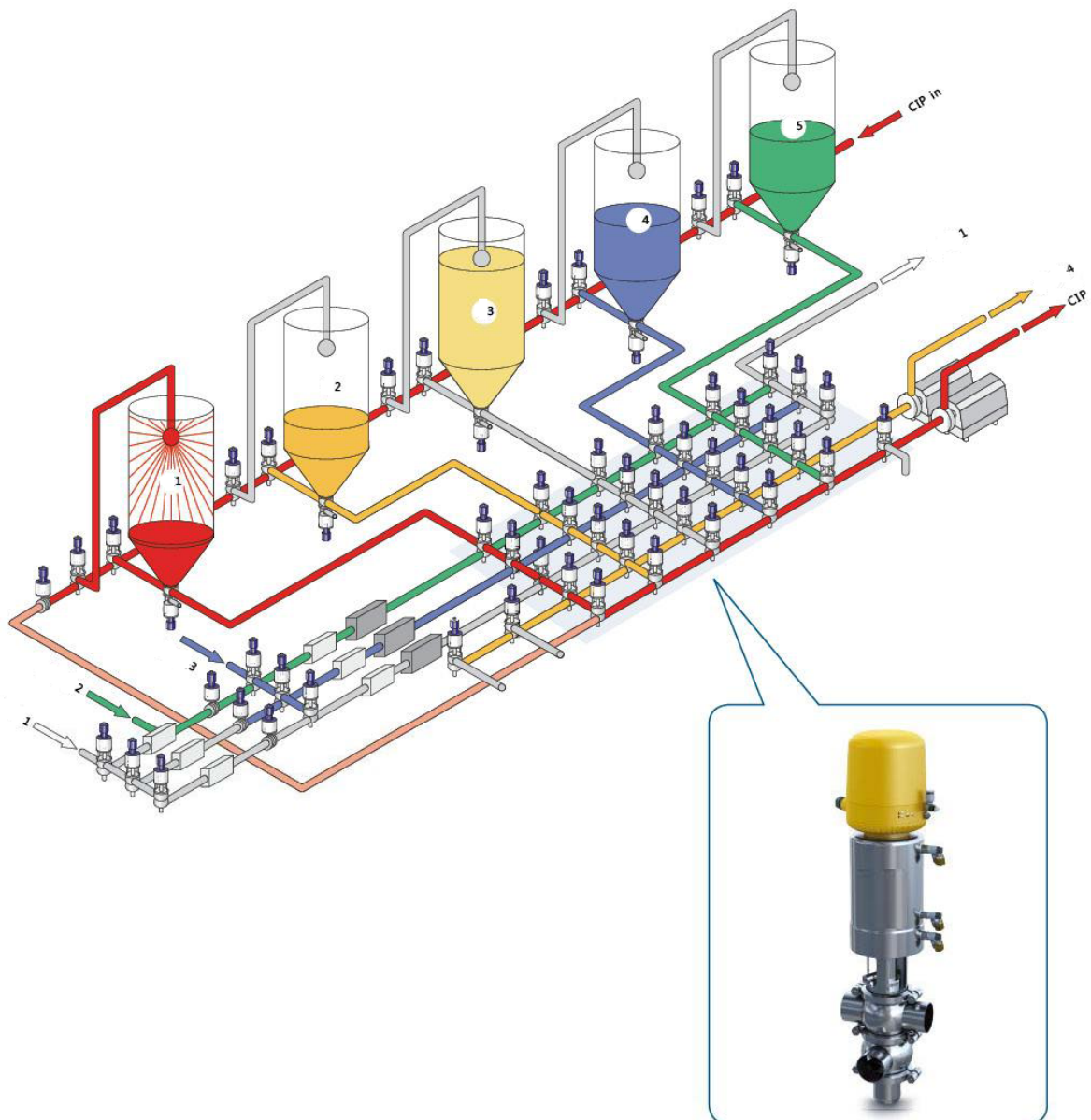
- Control air pressure 6 bar connection L
- Bottom valve will lift and close the leakage room
- Both valve disks in "open" position
- Top and bottom rail will open in relation to each other



FH6-SP/FH8-SP double seat valve series : to meet the higher requirement for sanitary fluid area . it add SIP sterilization basis on FH6/FH8 basis double seat mix-proof valve

Sanitary double seat mix-proof valve

double seat valves matrix are sure the factory sanitary and aseptic requirements . the factory has capability to establish automatic and more way system . the valves matrix can achieve operation for the modern production technics and washing circulate . using workshop in maximum and optimizing economy . double seat valve make sure protection the product mixing . see details of photo .



Technical data

Material	Contact product parts	316L(1.4404)
	non-contact product parts	304(1.4301)
	Provide E N 10204 3.1B certificate	
Seal material	Standard	EPDM
	Option	NBR\FPM\Silicone
	FDA 177.2600 All seal materials comply with FDA 177.2600	
Temperature	Running working temperature	-20~+135℃ (EPDM)
	Sterilization temperature	150℃ (Max 20min)
Pressure	Working pressure	0~5bar
	Accepting high pressure requirement	
	Control air pressure	6~8bar
Surface treatment	Internal surface	Ra ≤ 0.8μm
	External surface	Grit blasting
Connection	Connection standard	welded end: DIN 11850 series2
		welded end: INCH pipe standard
	Connection method: welding、thread、clamp、flange	
Option	Intelligent controller	24V DC
		1/3 electromagnetism valve
	Position sensor	24V DC
		2/3/4 NPN/PNP position sensor

Body type



Type1



Type2

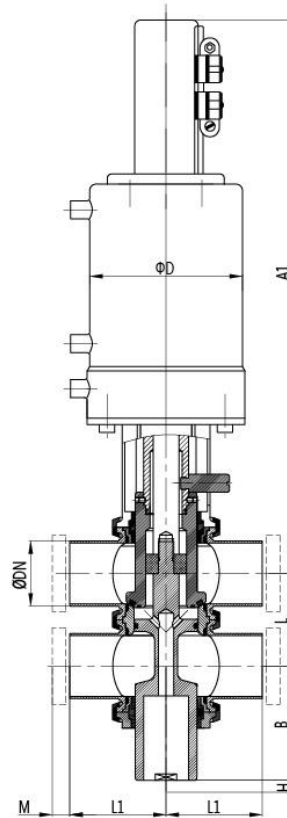
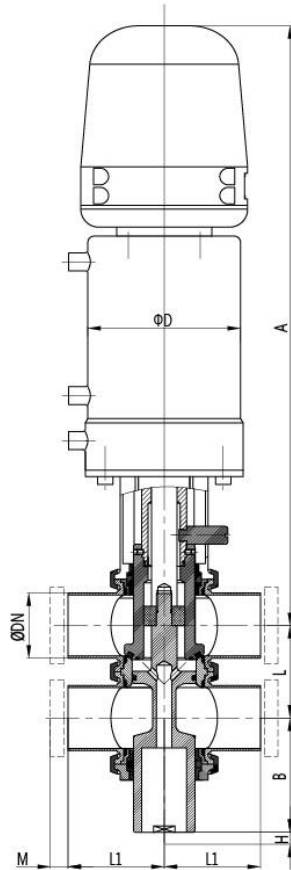


Type3



Type4

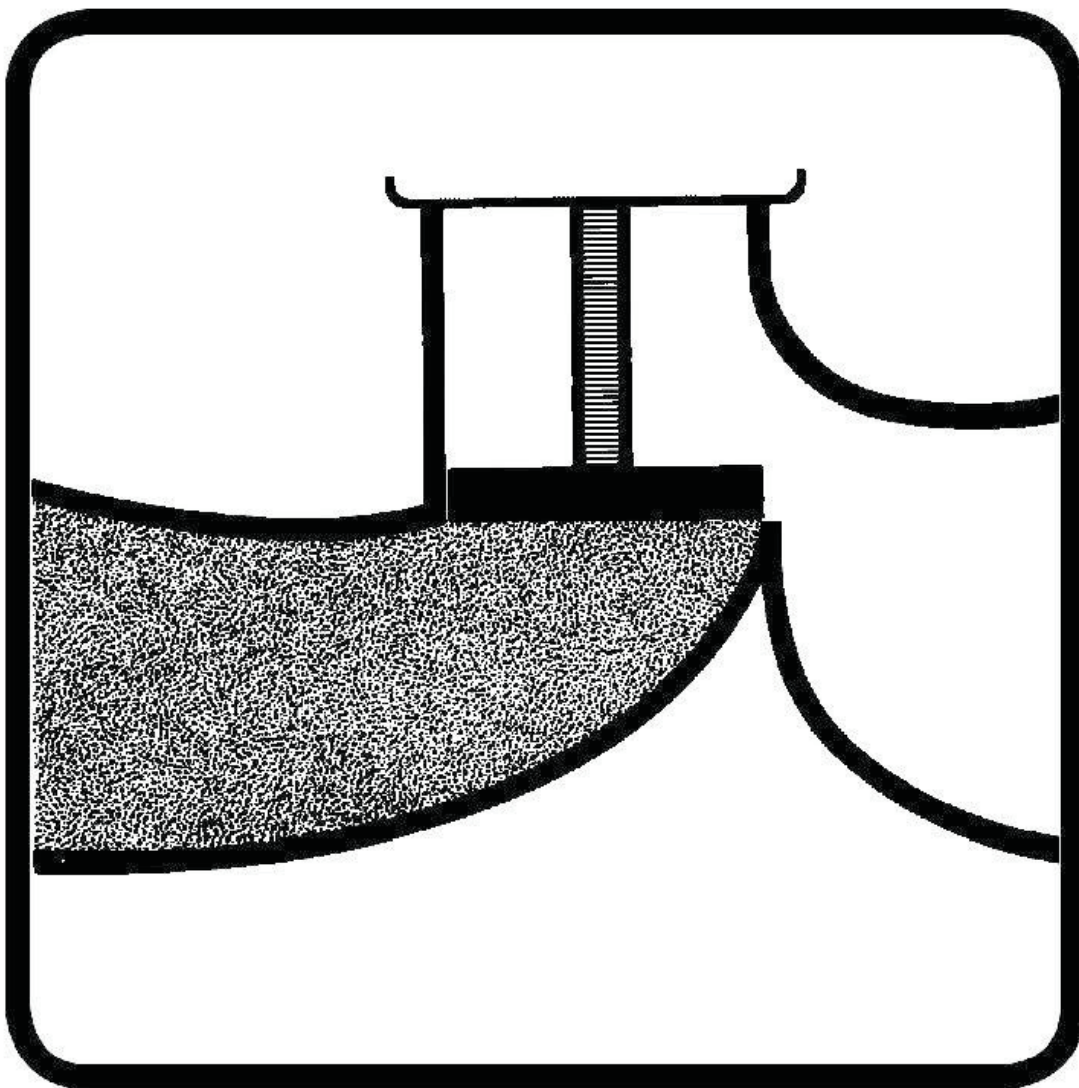
Sanitary
double seat
mix-proof valve



dimensions (mm)

DN	A	A1	B	L	L1	D	DN	Stroke	M(Clamp)
DN40	443.6	385.6	90	63.2	65	83	41x1.5	33.5	21.5
DN50	469.5	411.5	100	74.5	85	123	53x1.5	38	21.5
DN65	477	419	115	92	100	123	70x2.0	38	28
DN80	623.5	565.5	140	111	125	173	85x2.0	55	28
DN100	633.3	575.3	150	130	150	173	104x2.0	55	28
INCH									
1.5"	442	384	90	60	65	83	38.1x1.65	33.5	12.7
2.0"	468	410	100	72	85	123	50.8x1.65	38	12.7
2.5"	474	416	110	86.8	100	123	63.5x1.65	38	12.7
3.0"	632	574	135	102.9	125	173	76.2x1.65	55	12.7
4.0"	632	574	150	127.6	150	173	101.6x2.11	55	15.8

8.0 - Check valves & Cocks
*Terugslagkleppen &
kranen*

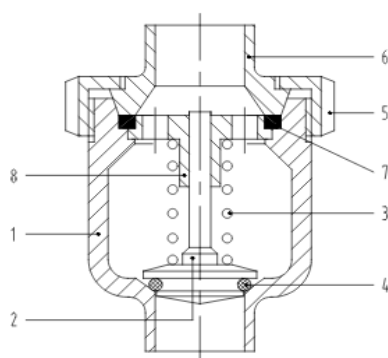


8.0

Check Valves

- Features :**
- * High strength construction from solid stainless steel block.
 - * Wide diaphragm opening to permit passage of solid particles.
 - * PTFE sealing gasket or other elastomers on request.
 - * Equipped with low-pressure springs allowing either vertical or horizontal valve operation.
 - * Standard finish: 120 grain external polishing and internal glazing.
 - Other finishes on request.
 - * Maximum operating pressure: 10 bars

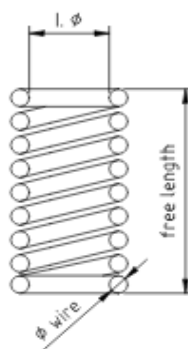
Components Check valves:



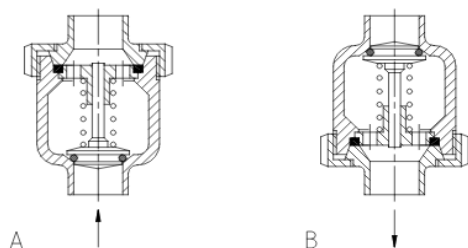
PARTS LIST		
1	Valve casing	Aisi 304L/Aisi 316L
2	Head seal	Aisi 316L
3	Spring	Aisi 304L
4	Seal	PTFE, EPDM, silicone, FTM
5	Nut	Aisi 304L
6	Union	Aisi 304L/Aisi 316L
7	Gasket	EPDM
8	Diaphragm	Aisi 316L

Spring:

VALVE SIZE	I Ø	Ø WIRE	FREE LENGTH	NO. COILS
12	11 mm	0.8 mm	44 mm	20
19	12.2 mm	0.9 mm	60 mm	16
25/34	15.5 mm	1 mm	50 mm	13 ¼
38/40	15.5 mm	1 mm	70 mm	17 ¼
51/52	15.5 mm	1.3 mm	72 mm	15
63/70	15.5 mm	1.5 mm	72 mm	18 ½
76/85	20.4 mm	2 mm	70 mm	16
101	20.5 mm	2.3 mm	82 mm	16



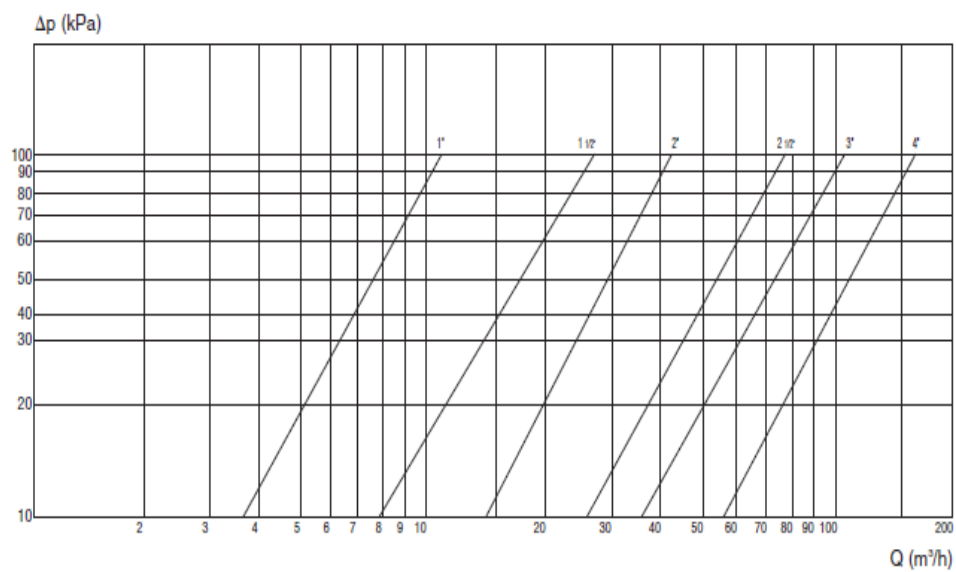
Opening pressure range:

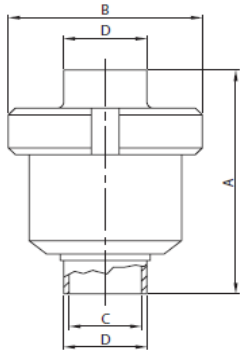


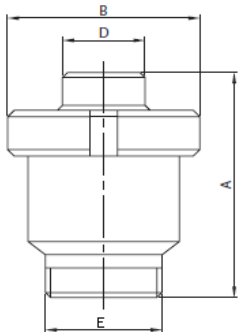
Check valves DIN standards:

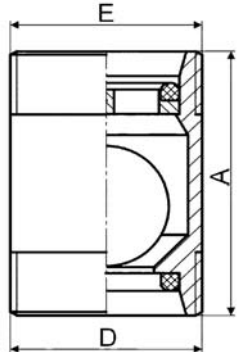
VALVE SIZE	BAR	25/34	38/40	51/52	63/70	76/85
28	A	0.119	0.266	0.780	0.870	0.996
	B	0.089	0.236	0.750	0.840	0.966
40	A	0.055	0.115	0.219	0.361	0.418
	B	0.029	0.089	0.193	0.334	0.392
52	A	0.036	0.067	0.096	0.196	0.228
	B	0.008	0.035	0.069	0.168	0.200
70	A				0.073	0.089
	B				0.046	0.061
85	A					0.063
	B					0.036

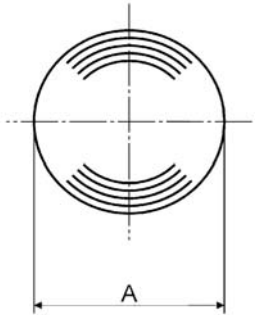
Pressure drop:

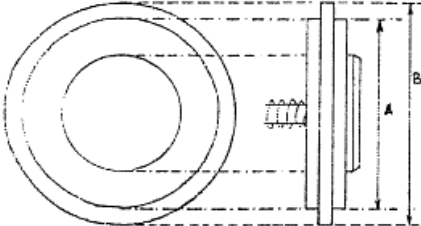


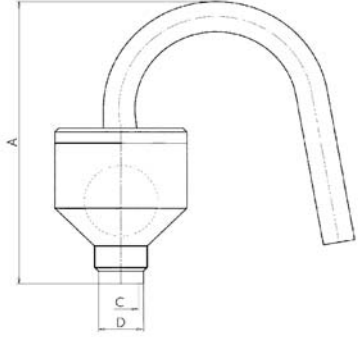
NW	A	B	C	D	E	Check valve weld/weld Terugslagventiel las/las
25	87	78	25	28		
32	89	92	31	34		
40	97	92	37	40		
50	101,5	112	49	52		
65	119,5	138	66	70		
80	132	148	81	85		
100	118	148	100	104		

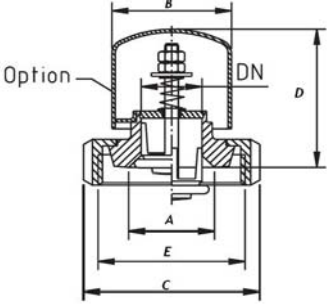
NW	A	B	C	D	E	Check valve weld/male Terugslagventiel las/draad
25	89	78	28		Rd 52x1/6"	
32	94	92	34		Rd 58x1/6"	
40	105	92	40		Rd 65x1/6"	
50	109,5	112	52		Rd 78x1/6"	
65	132,5	138	70		Rd 95x1/6"	
80	134	148	85		Rd 110x1/4"	
100	126	158	104		Rd 130x1/4"	

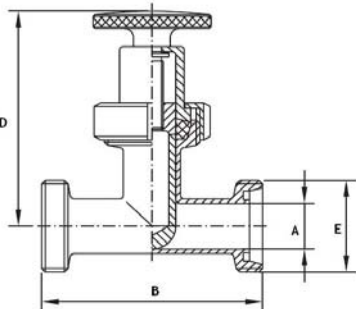
NW	A	B	C	D	E	Ball-type check valve Kogel terugslagventiel
25	75			Rd 52x1/6"	Rd 52x1/6"	
32	87			Rd 58x1/6"	Rd 58x1/6"	
40	94,5			Rd 65x1/6"	Rd 65x1/6"	
50	95			Rd 78x1/6"	Rd 78x1/6"	
65	117			Rd 95x1/6"	Rd 95x1/6"	
80	159			Rd 110x1/4"	Rd 110x1/4"	
100	180			Rd 130x1/4"	Rd 130x1/4"	

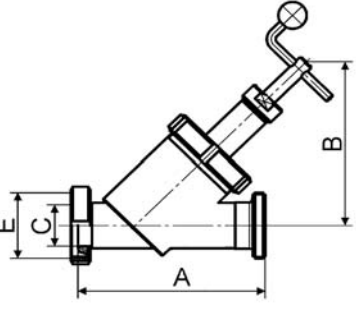
NW	A	B	C	D	E	Ball for check valve Gummikogel
25	34					
32	40					
40	46					
50	59					
65	75					
80	90					
100	110					

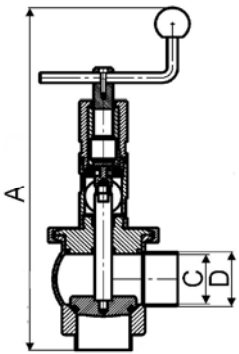
Non-return valve for union Terugslagklep inbouw	NW	A	B	C	D	E
	1"- 25	22,4	35,5			
	1,5"- 40	34,6	51,1			
	2"- 50	47,3	63,1			
	2,5"- 65	59,8	80,4			
	3"	80,5	94,3			
	80	71,5	88,1			
	4"- 100	97,5	113,3			

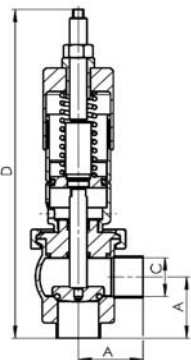
Vent valve (ball type) Ontluchtingsventiel met kogel	NW	A	B	C	D	E
	12	110		12,3	17	

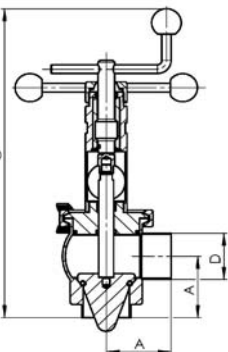
Vacuum valve Vacuumventiel	NW	A	B	C	D	E
	25/40	38	53x1,5	78	64	Rd 65x1/6"
	32/50	50	70x2,0	92	75	Rd 78x1/6"
	40/65	66	70x2,0	112	83	Rd 95x1/6"
	50/80	81	85x2,0	127	88	Rd 110x1/4"
	65/100	100	104x2,0	148	106	Rd 130x1/4"
	80/125	125	129x2,0	178	103	Rd 160x1/4"
	100/150	150	154x2,0	210	121	Rd 190x1/4"

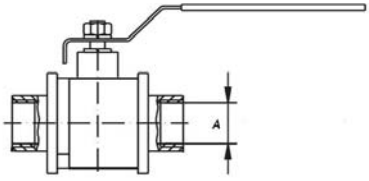
NW	A	B	C	D	E	Throttle valve Drosselventiel
25	26	128		120	Rd 52x1/6"	
32	31	128		135	Rd 58x1/6"	
40	38	138		145	Rd 65x1/6"	
50	50	154		150	Rd 78x1/6"	
65	66	168		225	Rd 95x1/6"	
80	81	230		310	Rd 110x1/4"	

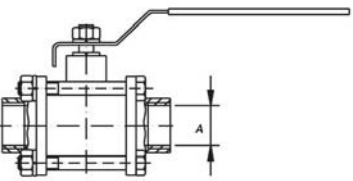
NW	A	B	C	D	E	Inclined seat valve male/liner Vrijstroomafsluiter draad/punt
25	156	170	28		Rd 52x1/6"	
32	173	170	34		Rd 58x1/6"	
40	203	185	40		Rd 65x1/6"	
50	213	220	52		Rd 78x1/6"	
65	272	265	70		Rd 95x1/6"	

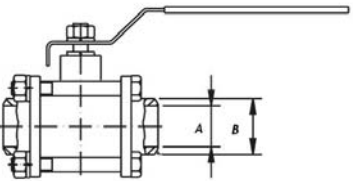
<i>Angle body valve manual</i> <i>Overstr. Hoekventiel handbediend</i>	NW	A	B	C	D	E
	25	79		26	29	
	32	85		32	35	
	40	92		38	41	
	50	102		50	53	
	65	117		66	70	
	80	130		81	85	
	100	150		100	104	

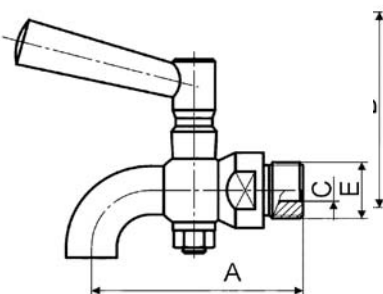
<i>Angle body valve spring loaded</i> <i>Overstr. Hoekventiel veer belast</i>	NW	A	B	C	D	E
	25	72		26	233	
	32	77		32	235	
	40	82		38	270	
	50	93		50	340	
	65	106		66	345	
	80	115		81	370	

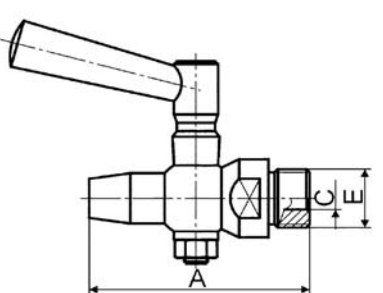
<i>Angle body valve manuel modulating</i> <i>Overstr. Hoekventiel handbediend regul.</i>	NW	A	B	C	D	E
	25	72		79	26	
	32	77		85	32	
	40	82		92	38	
	50	93		102	50	
	65	106		117	66	
	80	115		130	81	

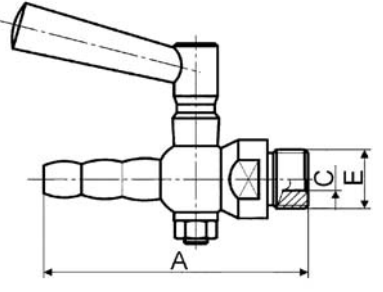
NW	A	B	C	D	E	Ball valve 2-pieces screwed ends Kogelkraan 2-delig binnendraad
8					R 1/4"	
10					R 3/8"	
15					R 1/2"	
20					R 3/4"	
25	For exact measurements please contact us !				R 1"	
32					R 1 1/4"	
40					R 1 1/2"	
50					R 2"	
65					R 2 1/2"	
80					R 3"	

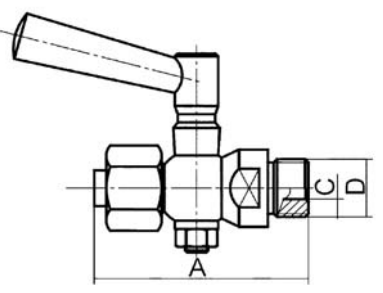
NW	A	B	C	D	E	Ball valve 3-pieces screwed ends Kogelkraan 3-delig binnendraad
8					R 1/4"	
10					R 3/8"	
15					R 1/2"	
20					R 3/4"	
25	For exact measurements please contact us !				R 1"	
32					R 1 1/4"	
40					R 1 1/2"	
50					R 2"	
65					R 2 1/2"	
80					R 3"	

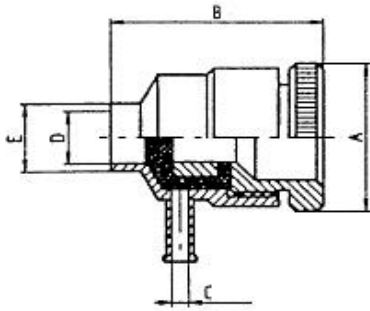
NW	A	B	C	D	E	Ball valve 3-pieces weld ends Kogelkraan 3-delig las einden
8	11,6	17				
10	12,7	19,5				
15	15	22				
20	20	27,5				
25	25	34				
32	32	41,5				
40	38	48,6				
50	50	62				
65	65	76,3				
80	80	92				
100	100	115				

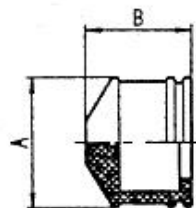
Drain cock Aftapkraan bocht90	NW	A	B	C	D	E
	8	55		4		R 1/4"
	10	62		6		R 3/8"
	15	72		8		R 1/2"
	20	100		12		R 3/4"
	25	134		20		R 1"

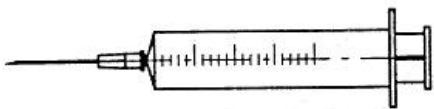
Test cock Aftapkraan recht	NW	A	B	C	D	E
	8	58		4		R 1/4"
	10	67		6		R 3/8"
	15	75		8		R 1/2"
	20	98		12		R 3/4"
	25	128		20		R 1"

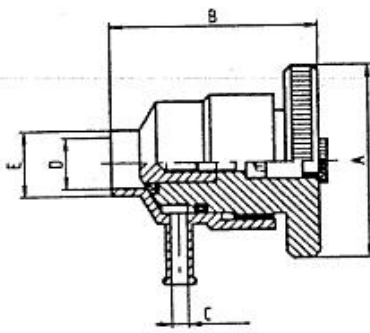
Assay cock Aftapkraan met tule	NW	A	B	C	D	E
	8	72		4		R 1/4"
	10	81		6		R 3/8"
	15	91		8		R 1/2"
	20	124		12		R 3/4"
	25	155		20		R 1"

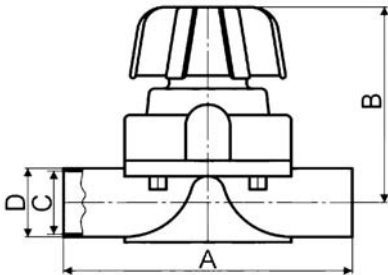
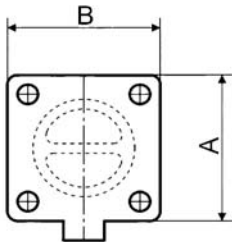
Drain cock Aftapkraan stomp	NW	A	B	C	D	E
	8	57		4		R 1/4"
	10	69		6		R 3/8"
	15	74		8		R 1/2"
	20	98		12		R 3/4"
	25	128		20		R 1"

NW	A	B	C	D	E	Sampling device Monsterafname unit
15	45	62	6	16	20	
40	45	63	6	37	40	

NW	A	B	C	D	E	Gasket for sampling device Dichting monsterafname unit
						
15	32	25				
40	32	25				
available in: silicone						
epdm						
viton						

NW	A	B	C	D	E	One-way syringe for sampl. Device Spuit monsterafname unit
						

NW	A	B	C	D	E	Sampling device Monsterafname unit
15	60	62,5	6	16	20	
40	60	63,5	6	37	40	

Diaphragm valve		NW	A	B	C	D	E
Membranaafsluier							
	6	Diaphragmvalve with almost full bore, weirless enabling:					
	1/4"	*	High volume flowpath				
	8	*	Low turbulence				
	3/8"	*	Reduced back pressure				
	10	*	Passing of solid particles				
	1/2"	*	Minimal bug trap potential				
	15	*	Machined flats ensure precise drain angle at point of				
	3/4"		installation (correct installation gives high CIP level)				
	20	Body 316(L): butt weld, DIN, SMS, 3A, ISO, RJT, IDF, BSP or tc					
	1"	suit customer's specification.					
	25	Bonnet 304 or autoclaveable plastic, spindle 304,					
	1,25"	actuator 304 or autoclaveable plastic.					
	32	Handwheel GF Nuylon: Phenolic (fully autoclaveable).					
	1,5"	Actuator 304 or autoclaveable plastic.					
Diaphragm Membranaan 	40	Actuator can be detached leaving the valvebody, bonnet and					
	2"	diaphragm undisturbed, inspring closed, spring open or					
	50	double acting.					
	F.D.A. approved diaphragm available in:						Epdm
							Silicone
							Viton
							PTFE
							NBR
	Finishes: Vacublast (gritt120, Max Ra=2,0Mu-AvRa=1,6Mu)						
	Satin (gritt320, Max Ra=0,9Mu-AvRa=0,6Mu)						
	Mirror polished (gritt400 Max Ra=0,4Mu-AvRa=0,1Mu)						
	Electropolished (Max Ra=0,1Mu-AvRa=0,04Mu)						

9.0 - *Sundries*
Diversen



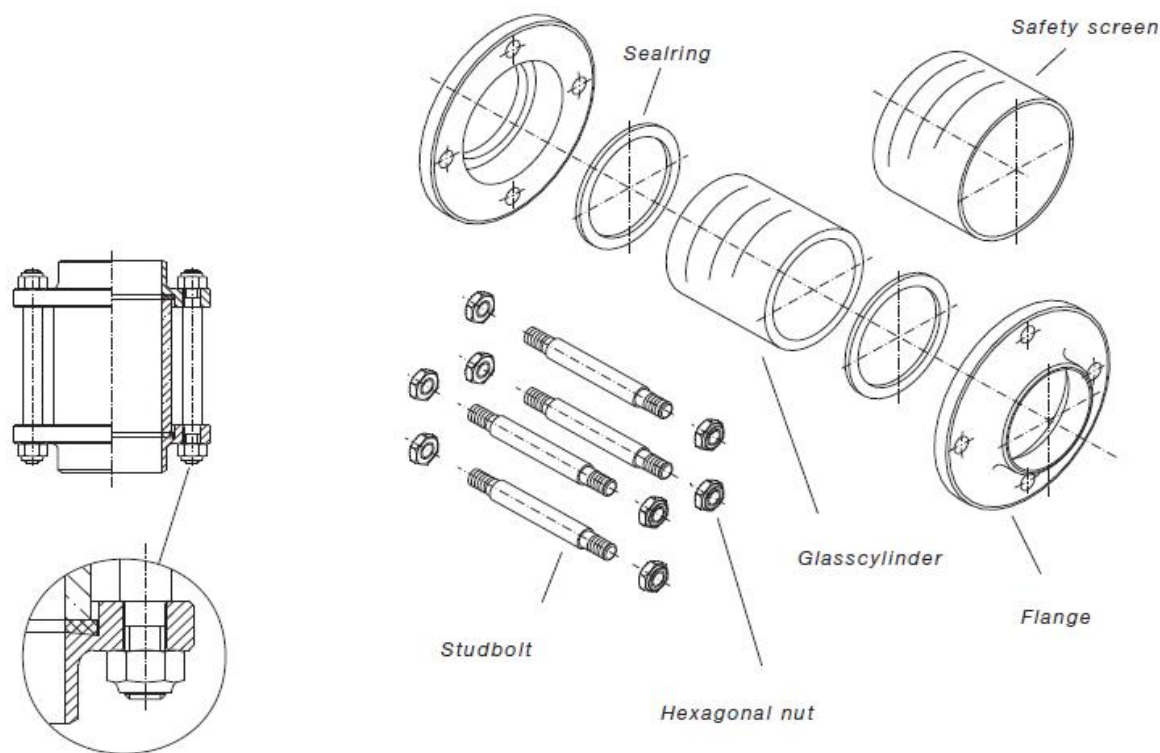
9.0

9.1 - Sundries
Diversen

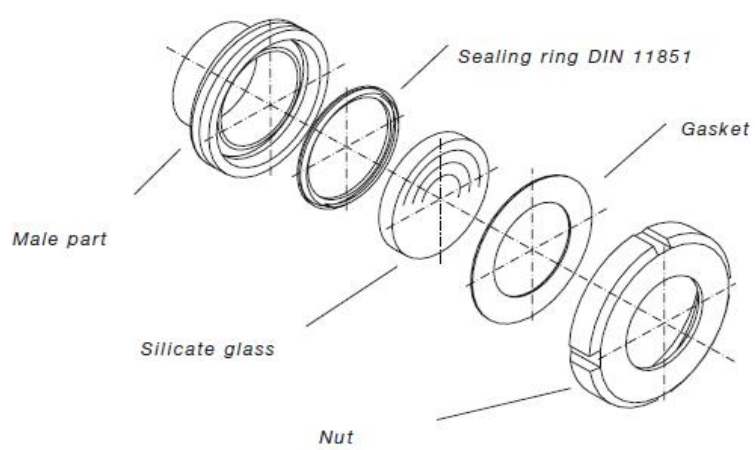
Sight Glasses
Kijkglazen

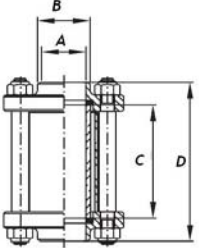


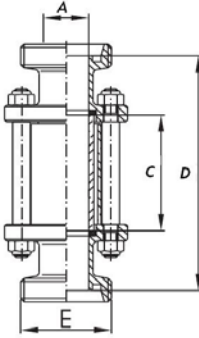
Cylindrical sightglass

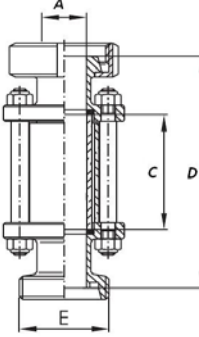


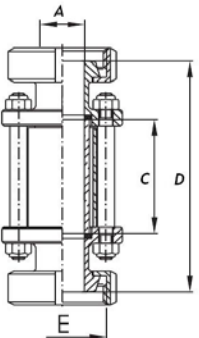
Sightglass 11851

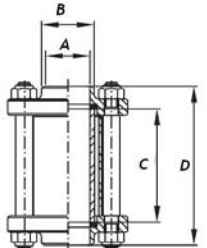


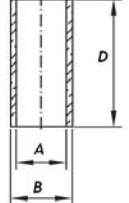
<i>Sightglass DIN-welding ends</i> <i>Buiskijkglas DIN las/las</i>	NW	A	B	C	D	E
	10	10	15	60	88	
	15	16	21	60	88	
	20	20	25	60	88	
	25	26	31	70	98	
	32	32	37	70	104	
	40	38	43	70	112	
	50	50	55	70	112	
	65	66	72	85	127	
	80	81	87	85	135	
	100	100	106	115	169	
	125	125	132	160	202	
	150	150	157	170	216	

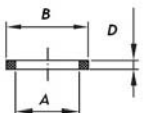
<i>Sightglass DIN male/male</i> <i>Buiskijkglas DIN draad/draad</i>	NW	A	B	C	D	E
	10	10		60	122	Rd 28x1/8"
	15	16		60	122	Rd 34x1/8"
	20	20		60	124	Rd 44x1/6"
	25	26		70	142	Rd 52x1/6"
	32	32		70	154	Rd 58x1/6"
	40	38		70	164	Rd 65x1/6"
	50	50		70	168	Rd 78x1/6"
	65	66		85	191	Rd 95x1/6"
	80	81		85	209	Rd 110x1/4"
	100	100		115	257	Rd 130x1/4"
	125	125		160	270	Rd 160x1/4"
	150	150		170	290	Rd 190x1/4"

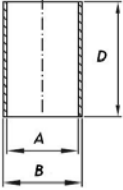
<i>Sightglass DIN male/liner</i> <i>Buiskijkglas DIN draad/punt</i>	NW	A	B	C	D	E
	10	10		60	122	Rd 28x1/8"
	15	16		60	122	Rd 34x1/8"
	20	20		60	124	Rd 44x1/6"
	25	26		70	142	Rd 52x1/6"
	32	32		70	154	Rd 58x1/6"
	40	38		70	164	Rd 65x1/6"
	50	50		70	168	Rd 78x1/6"
	65	66		85	191	Rd 95x1/6"
	80	81		85	209	Rd 110x1/4"
	100	100		115	257	Rd 130x1/4"
	125	125		160	270	Rd 160x1/4"
	150	150		170	290	Rd 190x1/4"

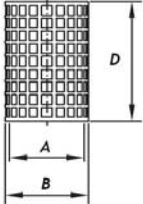
<i>Sightglass DIN liner/liner</i> <i>Buiskijkglas DIN punt/punt</i>	NW	A	B	C	D	E
	10	10		60	122	Rd 28x1/8"
	15	16		60	122	Rd 34x1/8"
	20	20		60	124	Rd 44x1/6"
	25	26		70	142	Rd 52x1/6"
	32	32		70	154	Rd 58x1/6"
	40	38		70	164	Rd 65x1/6"
	50	50		70	168	Rd 78x1/6"
	65	66		85	191	Rd 95x1/6"
	80	81		85	209	Rd 110x1/4"
	100	100		115	257	Rd 130x1/4"
	125	125		160	270	Rd 160x1/4"
	150	150		170	290	Rd 190x1/4"

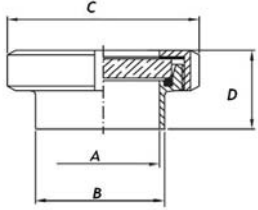
NW	A	B	C	D	E	Sightglass inch-welding ends Buiskijkglas Inch las/las
1"	22,9	28	70	96		
1,25"	29,3	35	70	102		
1,5"	35,1	41	70	110		
2"	47,8	54	70	110		
2,5"	60,5	68	85	124		
3"	72,1	78	85	132		
4"	97,6	104	115	167		

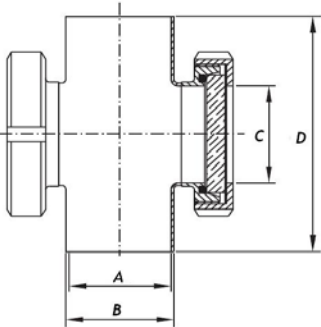
NW	A	B	C	D	E	Culinder for sightglass Glascylinder
10	10	15		60		
15	17	22		60		
20	20	26		60		
25/1"	26	32		70		
32/1,25"	34	40		70		
40/1,5"	40	50		70		
50/2"	50	60		70		
2,5"	60	70		85		
65	65	75		85		
3"	75	85		90		
80	80	90		85		
100/4"	100	110		115		
125	126	140		160		
150	152	170		170		

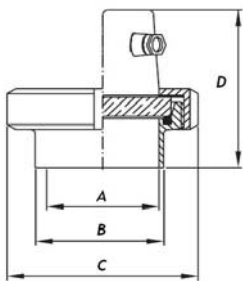
NW	A	B	C	D	E	Sealring for sightglass Dichting buiskijkglas
10	10	16		3		
15	16	23		3		
20	20	27		3		
25/1"	26	33		3		
32/1,25"	32	39		3		
40/1,5"	38	51		3		
50/2"	50	61		3		
2,5"	61	72		3		
65	66	76		3		
3"	76	87		4		
80	81	91		4		
100/4"	100	111		4		
125	125	141		4		
150	150	171		4		

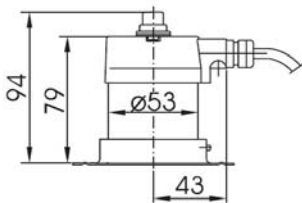
Safety screen of polycarbonat Beschermkap polycarbonaat	NW	A	B	C	D	E
	10	20	24		50	
	15	27	30		50	
	20	35	38		50	
	25/1"	36	40		61	
	32/1,25"	42	45		61	
	40/1,5"	54	60		61	
	50/2"	66	70		61	
	65/2,5"	80	88		75	
	80/3"	95	100		77	
	100/4"	128	133		103	
	125	164	170		144	
	150	194	200		158	

Safety screen of perforated plate Beschermkap geperforeerde plaat	NW	A	B	C	D	E
	10	19	21		46	
	15	25	27		46	
	20	29	31		46	
	25/1"	34	36		60	
	32/1,25"	41	43		60	
	40/1,5"	52	54		60	
	50/2"	63	65		60	
	65/2,5"	78	80		74	
	80/3"	94	96		74	
	100/4"	113	115		102	
	125	143	145		144	
	150	173	175		158	

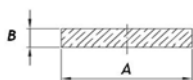
NW	A	B	C	D	E	Sightglass 11851 Kijkglas 11851
25	26	29	63	37		
32	32	35	70	40		
40	38	41	78	41		
50	50	53	92	43		
65	66	70	112	48		
80	81	85	127	54		
100	100	104	148	64		
125	125	129	178	58		
150	150	154	210	60		

NW	A	B	C	D	E	Sightglass T-DIN welding ends Kruiskijkglas DIN 11851
25	26	29	26	100		
32	32	35	32	110		
40	37	41	38	120		
50	50	53	50	140		
65	66	70	66	160		
80/65	81	85	66	180		
100/65	100	104	66	20		
125/100	125	129	100	375		
150/100	150	154	100	400		

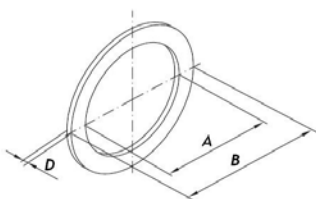
NW	A	B	C	D	E	Sightglass DIN weld. ends with light Kijkglas 11851 met halflicht
65	66	70	112	110	24V 20W	
80	81	85	127	135	24V 20W	
100	100	104	148	153	24V 20W	
125	125	129	178	150	24V 50W	
Also available in stainless steel						

NW	A	B	C	D	E	Light for sightglass T-DIN weld. ends Halflicht tbv kruiskijkglas DIN 11851
65						
100						

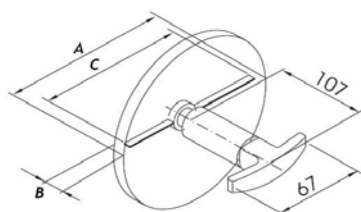
<i>Spare glass</i> <i>Reserve glas</i>	NW	A	B	C	D	E
	25	45	10			
	32	50	10			
	40	55	10			
	50	65	10			
	65	85	10			
	80	100	15			
	100	118	12			
	125	150	15			
	150	175	20			

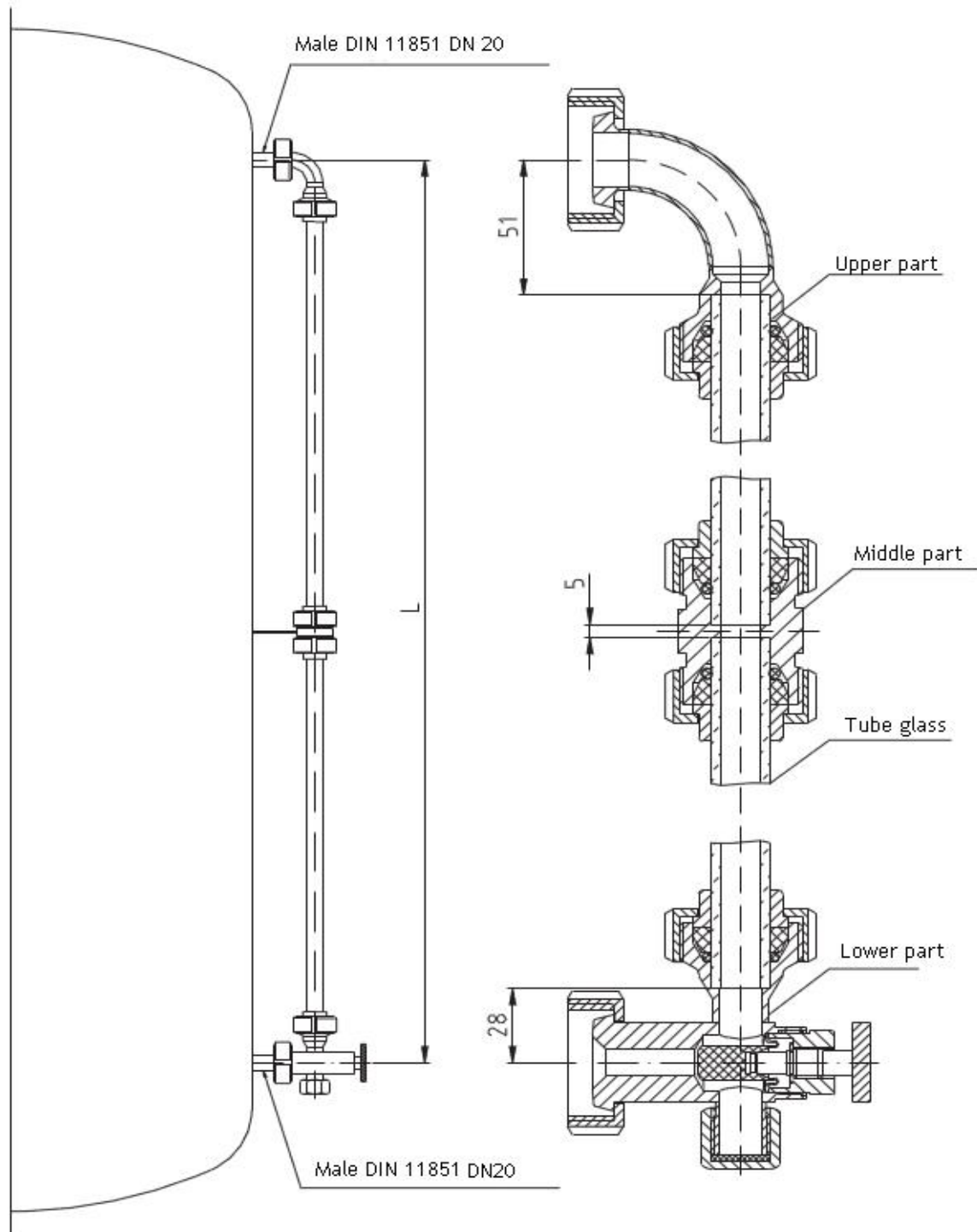


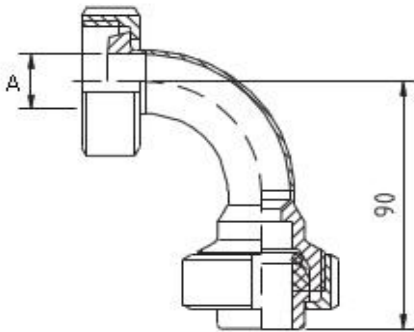
<i>Gasket for sightglass</i> <i>Dichting voor kijkglas</i>	NW	A	B	C	D	E
	25	26	45		1	
	32	32	50		1	
	40	38	55		1	
	50	50	65		1	
	65	66	85		1	
	80	81	100		1	
	100	100	118		1	
	125	125	150		1	
	150	150	175		1	

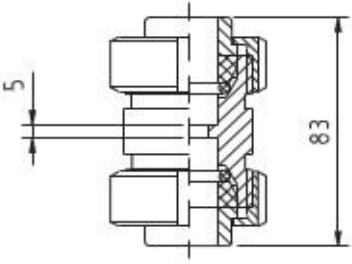


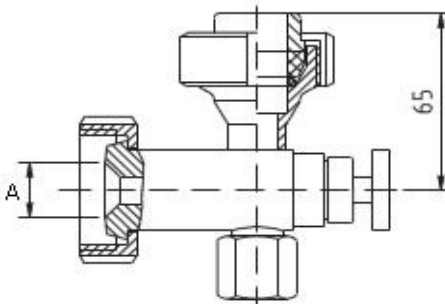
<i>Windshield wiper with spare glass</i> <i>Wisser inrichting kijkglas</i>	NW	A	B	C	D	E
	65	85	10	63		
	80	100	15	77		
	100	118	12	97		

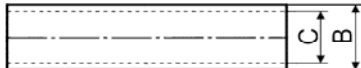




Level indicator upper part Peilglasarmatuur boven		NW	A	B	C	D	E
		10	DN20		13/10		
					15/10		
					R 1/2"		
					13/10		
		15	DN20		15/10		
					20/16		
		20	DN20		R 1/2"		
					25/21		

Level indicator middle part Peilglasarmatuur midden		NW	A	B	C	D	E
		10			13/10		
					15/10		
					13/10		
					15/10		
		15			20/16		
		20			25/21		

Level indicator lower part Peilglasarmatuur onder		NW	A	B	C	D	E
		10	DN20		13/10		
					15/10		
					R 1/2"		
					13/10		
		15	DN20		15/10		
					20/16		
		20	DN20		R 1/2"		
					25/21		

Glass tube Peilglas buis		NW	A	B	C	D	E
		10		13	10		
				15	10		
		15		20	15		
				25	21		
		20					

9.2 - Sundries
Diversen

Filters
Filters



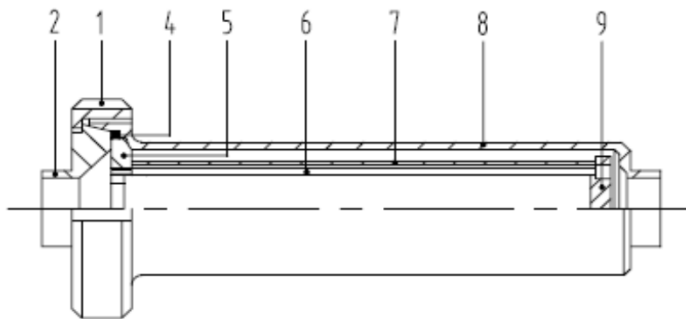
Filters

Application: Filters are designed to remove particles from fluid processing lines. The product flows through a filtering cartridge where particles exceeding the cartridge hole size are trapped.

Features : They offer low flow resistance and minimum pressure drop. The filtering cartridges are available with a wide range of hole sizes, from 4 mm to 26 microns.

The cartridges are easily extractable for cleaning and servicing. Inline filters need to be removed from the pipeline for cleaning. 90° filters do not need to be removed for cleaning as cartridges are extractable online.

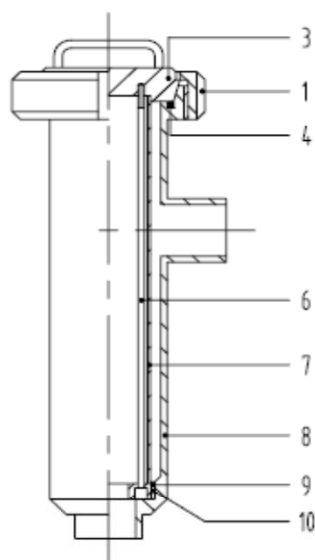
Components: Inline filter:



PARTS LIST		
1	Nut	Aisi 304L/Aisi 316L
2	Plain connection	Aisi 304L/Aisi 316L
4	Seal	NBR
5	Upper disk	Aisi 316L
6	Tie rod	Aisi 316L
7	Filter	Aisi 316L
8	Filter casing	Aisi 304L/Aisi 316L
9	Lower disk	Aisi 316L

Components:

Angular Filter:



PARTS LIST		
1	Nut	Aisi 304L/Aisi 316L
3	Blank	Aisi 304L/Aisi 316L
4	Seal	NBR
6	Tie rod	Aisi 316L
7	Filter	Aisi 316L
8	Filter casing	Aisi 304L/Aisi 316L
9	Lower disk	Aisi 316L
10	OR seal ring	NBR

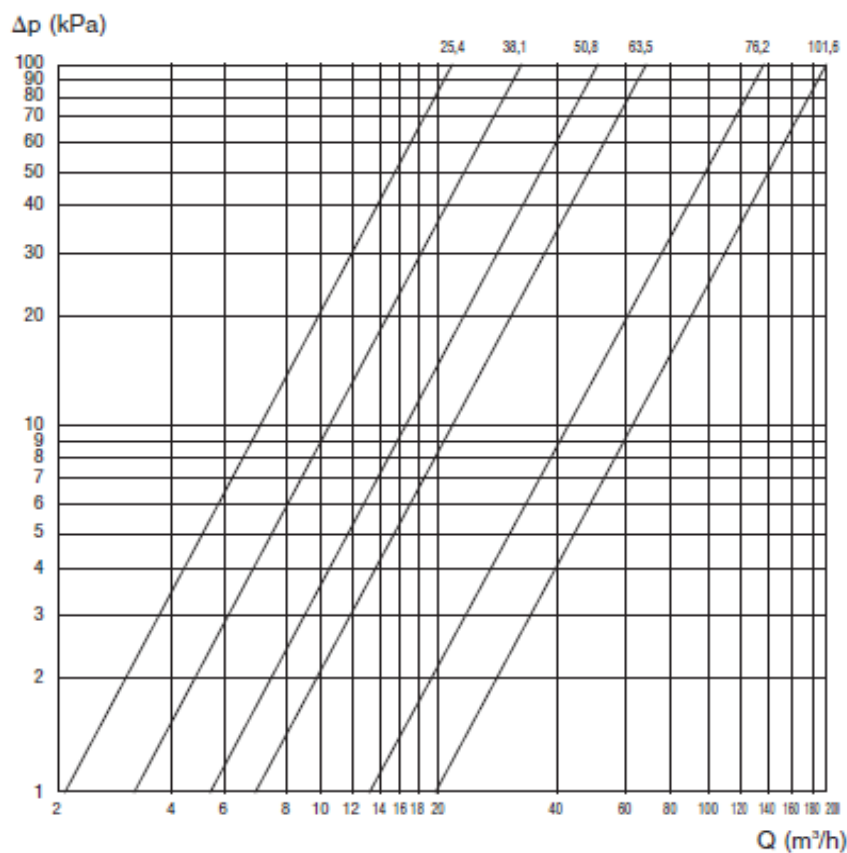
Technical Data: Max. product pressure: 500 kPa (5 bar).
Temperature range: -10°C +100°C (+15° +210°F).
Finish: 120 grit (max Ra 1.01-1.14 µm, 40-45 µ").
Production range: DN 28 to DN 101, 1" to 4".
Connections: welding end, threaded end, ferrule end.
Standards: DIN, SMS, RJT BS, IDF ISS, Clamp.
Steel grades: Aisi 304L, Aisi 316L.

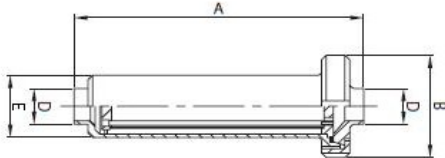
Flowrate:

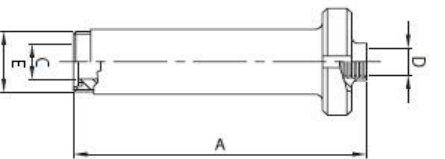
Flowrate m³/h

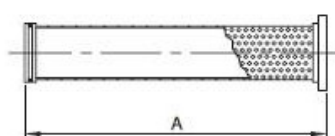
FILTER DIAM.	FLUID SPEED M/SEC			
	0.50	1.00	1.50	2.00
25.4	0.745	1.494	2.239	2.988
28	0.882	1.764	2.646	3.528
34	1.447	2.894	4.341	5.788
38.1	1.785	3.571	5.356	7.142
40	2.041	4.082	6.123	8.164
50.8	3.294	6.588	9.882	13.176
52	3.531	7.063	10.594	14.126
63.5	5.191	10.382	15.573	20.764
70	6.152	11.336	18.460	24.616
76.2	7.509	15.019	22.528	30.038
85	9.270	18.540	27.810	37.080
101.6	14.130	28.260	42.390	56.520

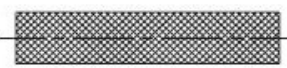
Pressure Drop:

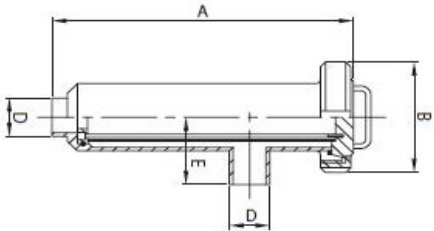


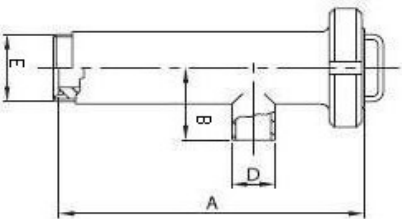
<i>Line Filter DIN weld/weld</i> <i>Doorgangszeeff DIN las/las</i>	NW	A	B	C	D	E
	25	320	112		28	70
	32	320	112		34	70
	40	320	112		40	70
	50	420	112		52	70
	65	516	127		70	85
	80	575	148		85	102
	100	700	148		104	129

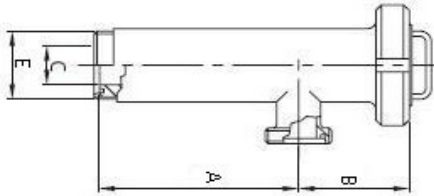
<i>Line Filter DIN weld/male</i> <i>Doorgangszeeff DIN las/draad</i>	NW	A	B	C	D	E
	25	320		25	28	Rd 52x1/6"
	32	320		31	34	Rd 58x1/6"
	40	320		37	40	Rd 65x1/6"
	50	420		49	52	Rd 78x1/6"
	65	521		66	70	Rd 95x1/6"
	80	584		81	85	Rd 110x1/4"
	100	690		100	104	Rd 130x1/4"

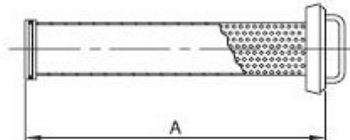
<i>Line Filter cartridge</i> <i>Zeefinzet Doorgangsfiler</i>	NW	A	B	C	D	E
	25/40	271				
	51/52	371				
	63/70	466				
	76/85	516				
	101/104	621				

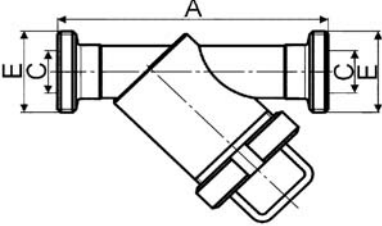
<i>Mesh covering</i> <i>Gas bekleding</i>	NW	Mesh				
	25/40	100/200	300	400	500	
	51/52	100/200	300	400	500	
	63/70	100/200	300	400	500	
	76/85	100/200	300	400	500	
	101/104	100/200	300	400	500	

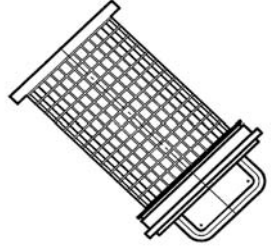
NW	A	B	C	D	E	Angular Filter DIN weld/weld Hoekzeef DIN las/las
25	306	112		28	70	
32	306	112		34	70	
40	306	112		40	70	
50	406	112		52	72	
65	503	127		70	85	
80	561	148		85	96	
100	662	148		104	117	
For other measurements please contact us !						

NW	A	B	C	D	E	Angular Filter DIN weld/male Hoekzeef DIN las/draad
25	300	70		28	Rd 52x1/6"	
32	300	70		34	Rd 58x1/6"	
40	300	70		40	Rd 65x1/6"	
50	398	72		52	Rd 78x1/6"	
65	495	85		70	Rd 95x1/6"	
80	553	96		85	Rd 110x1/4"	
100	642	117		104	Rd 130x1/4"	
For other measurements please contact us !						

NW	A	B	C	D	E	Angular Filter DIN male/male Hoekzeef DIN draad/draad
25	200	100	25		Rd 52x1/6"	
32	200	100	31		Rd 58x1/6"	
40	200	100	37		Rd 65x1/6"	
50	283	115	49		Rd 78x1/6"	
65	378	117	66		Rd 95x1/6"	
80	422	131	81		Rd 110x1/4"	
100	522	120	100		Rd 130x1/4"	
For other measurements please contact us !						

NW	A	B	C	D	E	Filter cartridge Zeefinzet Hoekfilter
25/40	278					
51/52	378					
63/70	473					
76/85	527					
101/104	636					

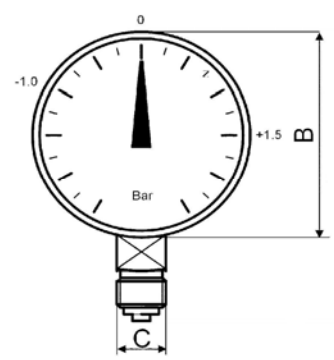
<i>Dirt collecting Filter</i> <i>Vuilverganger</i>	NW	A	B	C	D	E
	25	163		26		Rd 52x1/6"
	32	180		32		Rd 58x1/6"
	40	210		38		Rd 65x1/6"
	50	220		50		Rd 78x1/6"
	65	280		66		Rd 95x1/6"
	80	320		81		Rd 110x1/4"
	100	370		100		Rd 130x1/4"

<i>Strainer dirt collecting Filter</i> <i>Vuilvergangerinzet</i>	NW	A	B	C	D	E
	25	128				
	32	129				
	40	141				
	50	173				
	65	248				
	80	279				
	100	287				

9.3 - *Sundries*
Diversen

Pressure gauges
Manometers



B C		Pressure Gauge Manameter
Case mm		
63	R 1/4" BSP	
	NPT	
80	R 1/4" BSP	
	NPT	
100	R 1/2" BSP	
	NPT	
160	R 1/2" BSP	
	NPT	
200	R 1/2" BSP	
	NPT	
250	R 1/2" BSP	
	NPT	

Case: dry (optional: liquid filled)

Materials: 304 - case

316 - wetted parts

Window: minaral glass 4mm

Range: from -1 / 0bar

from 0-0,6 / 60bar

Accuracy: case 60 and 80 +/- 1,6% F.S. / class 1.6

case 100 - 250 +/- 1,0% F.S. / class 1.0

Temperature: max. 100grC

For other options & measurements please contact us !!

B NW E	Pressure Gauge Manameter	
Case mm DIN11851		
63	25	Rd 52x1/6"
	40	Rd 65x1/6"
	50	Rd 78x1/6"
100	25	Rd 52x1/6"
	40	Rd 65x1/6"
	50	Rd 78x1/6"
160	25	Rd 52x1/6"
	40	Rd 65x1/6"
	50	Rd 78x1/6"

Case: dry (optional: liquid filled)

Materials: 304 - case

316 - wetted parts

Window: minaral glass 4mm

Range: from -1 / 0bar

from 0-0,6 / 60bar

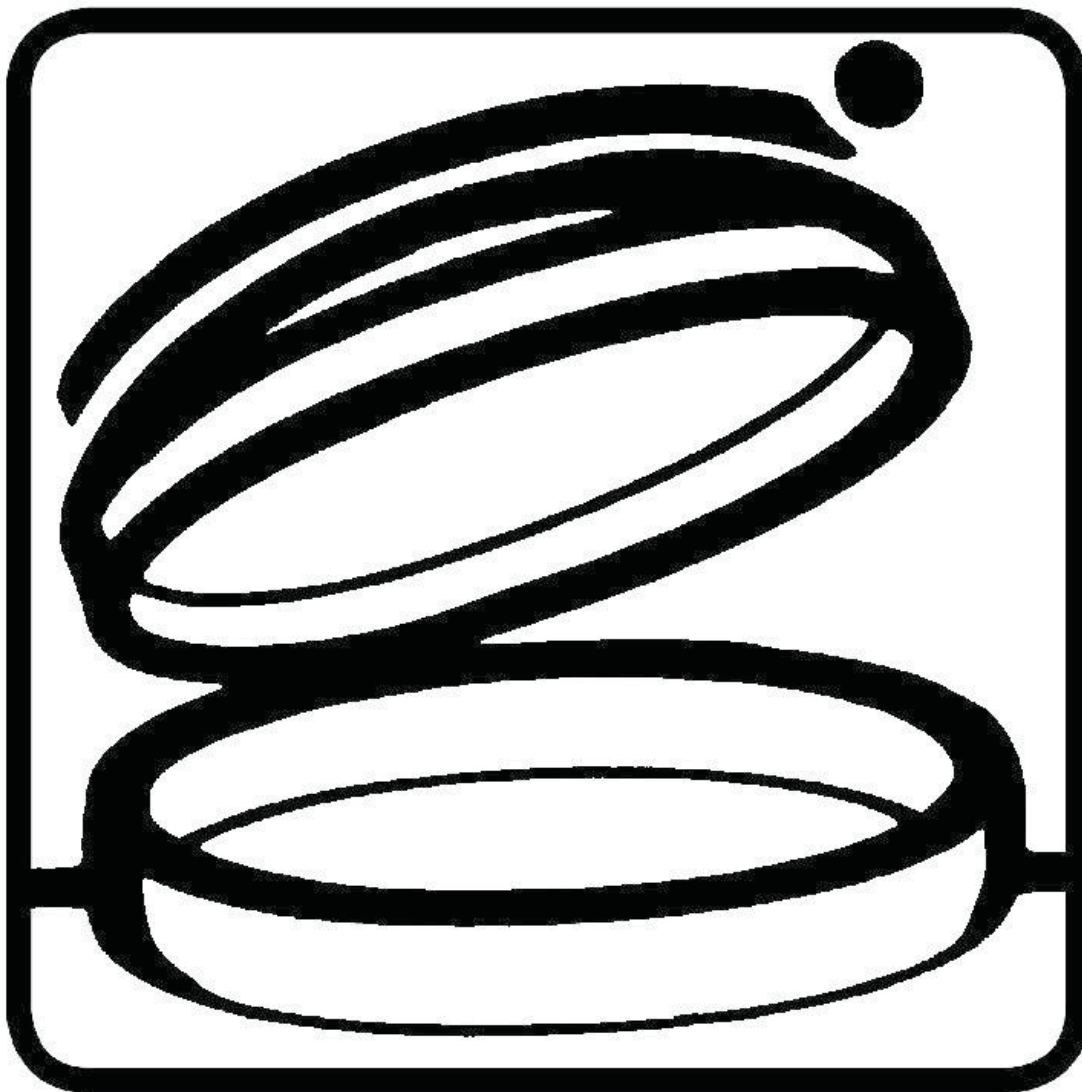
Accuracy: case 60 and 80 +/- 1,6% F.S. / class 1.6

case 100 - 250 +/- 1,0% F.S. / class 1.0

Temperature: max. 100grC

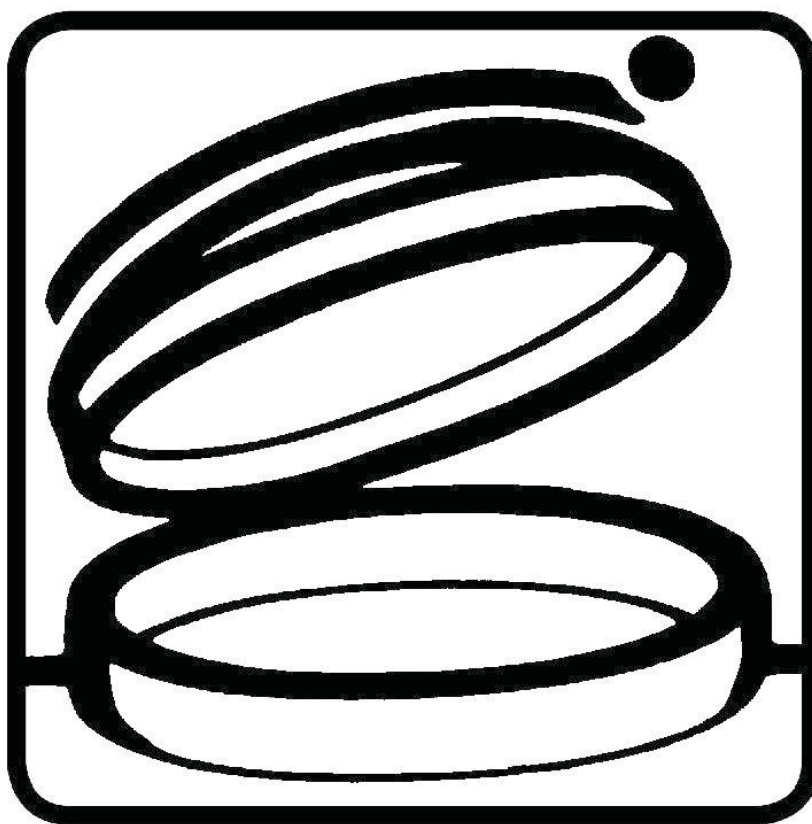
For other options & measurements please contact us !!

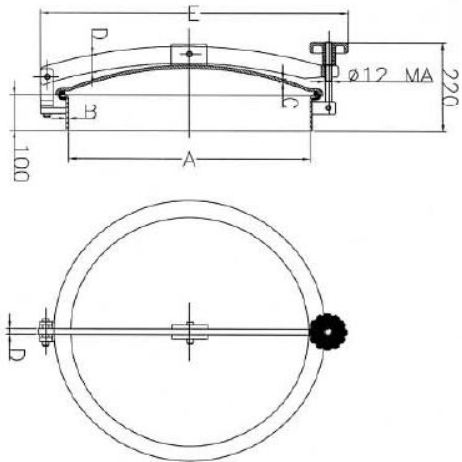
10.0 - *Tankequipment*
Tankarmaturen

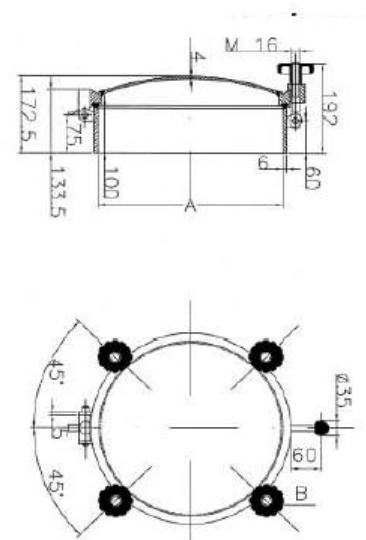


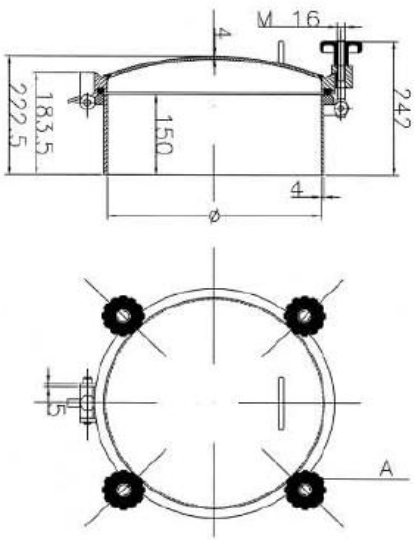
10.1 - *Tankequipment*
Tankarmaturen

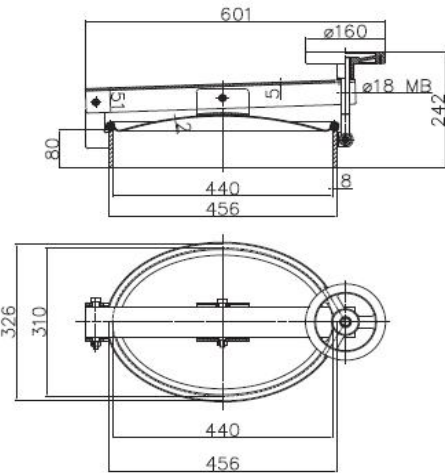
Manholes
Mangatdeksels



NW	A	B	C	D	E	Pressureless dome cover Drukloos mangatdeksel
200	200	2,5	2	30x8	320	
300	295	2,5	2,5	35x8	420	
400	400	2,5	2,5	40x10	520	
500	500	2,5	2,5	40x10	635	
600	600	2,5	2,5	40x10	740	
Standard design:						
material 304 or 316(L)						
silicone seal (transparant)						
surface: outside & inside						
polished 320						
plastic handle M12						
Options :						
different seals (see range of seals)						
stainless steel handle						
safety grill						
Range of seals:						
Epdm (+110/-20 grC)						
Silicone (+200 grC)						
Viton (+210/-20 grC)						

NW	A	Handle	Round pressure dome -1/+1bar Druk mangatdeksel -1/+1bar
200	203	4x	
300	310	4x	
400	410	4x	
450	460	4x	
500	510	4x	
600	610	6x	
700	700	8x	
800	800	8x	
Standard design:	material 304 or 316(L)		
	silicone seal (transparant)		
	surface: ungrinded		
	shot blasted		
	plastic handle M12		
	neck height 100mm		
Options :	different seals (see range of seals)		
	stainless steel handle		
	safety grill		
	neck up to 2000mm, neck tickness up to 20mm		
Range of seals:	Epdm (+110/-20 grC)		
	Silicone (+200 grC)		
	Viton (+210/-20 grC)		

Round pressure dome -1/+6bar Drukmangetdeksel -1/+6bar		NW	A	Bar	Handle
		300	300	-1/+4	4x
			300	-1/+6	6x
		400	400	-1/+4	4x
			400	-1/+6	6x
		450	450	-1/+4	6x
			450	-1/+6	8x
		500	500	-1/+3	6x
			500	-1/+6	8x
		600	600	-1/+2	6x
			600	-1/+4	8x
Standard design:		material 304 or 316(L)			
		silicone seal (transparent)			
		surface: ungrinded			
		shot blasted			
		plastic handle M12			
		neck height 150mm			
Options :		different seals (see range of seals)			
		stainless steel handle			
		safety grill			
		neck up to 2000mm, neck tickness up to 20mm			
Range of seals:		Epdm (+110/-20 grC)			
		Silicone (+200 grC)			
		Viton (+210/-20 grC)			

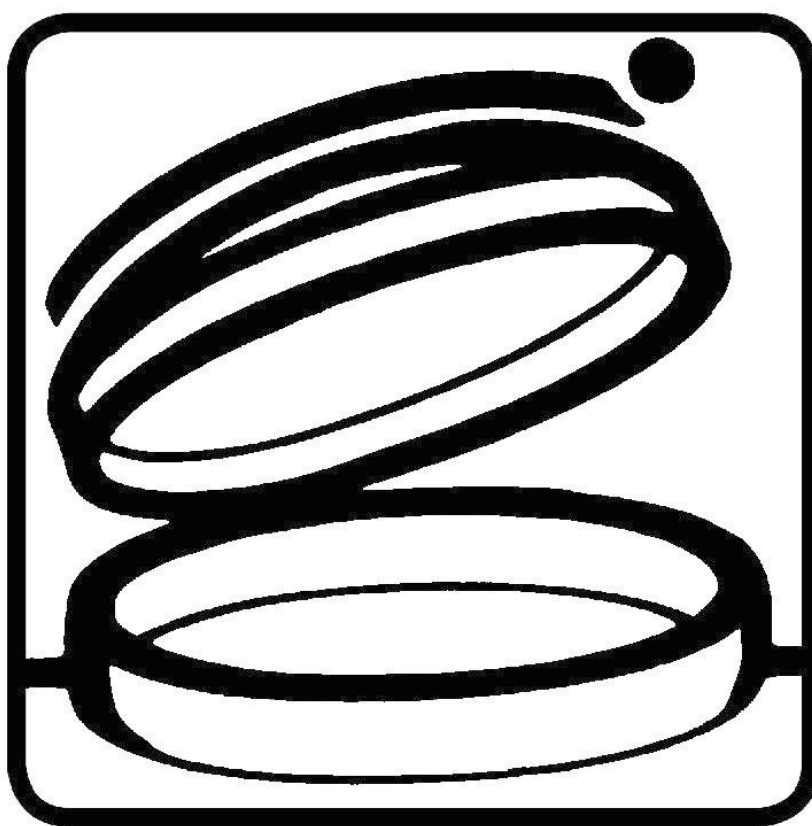
Oval shaped manhole Ovaal mangatdeksel		NW	Bar
		440x310	-1/+0,7
Standard design:		material 304 or 316(L)	
		natural rubber seal	
Options :		different seals (see range of seals)	
Range of seals:		Epdm (+110/-20 grC)	
		Silicone (+200 grC)	
		Viton (+210/-20 grC)	
		Natural rubber (+70/-50 grC)	

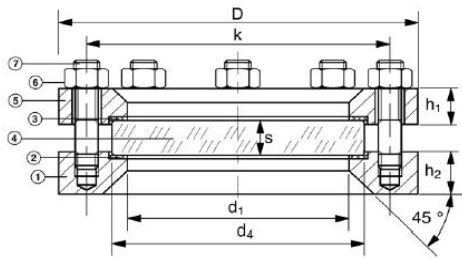
NW	Bar	Oval shaped manhole door type Ovaal mangat binnen openend
440x330	+3,2bar	
Standard design:	material 304 or 316(L) natural rubber seal	
Options :	different seals (see range of seals)	
Range of seals:	Epdm (+110/-20 grC) Silicone (+200 grC) Viton (+210/-20 grC) Natural rubber (+70/-50 grC)	

NW	Bar	Oval shaped manhole door type Ovaal mangat binnen openend
440x330	+3,2bar	
Standard design:	material 304 or 316(L) natural rubber seal	
Options :	different seals (see range of seals)	
Range of seals:	Epdm (+110/-20 grC) Silicone (+200 grC) Viton (+210/-20 grC) Natural rubber (+70/-50 grC)	

10.2 - *Tankequipment*
Tankarmaturen

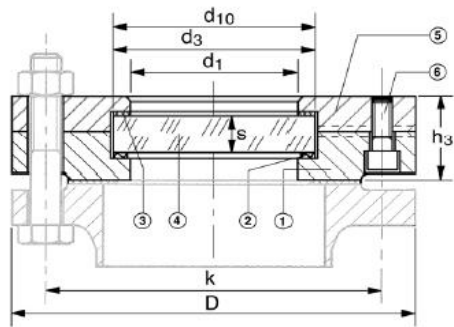
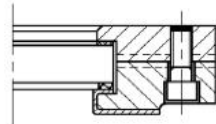
Tankequipment sundries
Tankarmaturen diversen



NW	D1	D4	glas	h1 / h2	D	K	Circular sightglass DIN28120 Kijkglasarmatuur DIN28120
PN10/16							
50	80	100	15/15	16/30	165	125	
80	100	125	15/20	20/30	200	160	
100	125	150	20/25	22/30	220	180	
125	150	175	20/25	25/30	250	210	
150	175	200	25/30	30/36	285	240	
200	225	250	25/30	35/36	340	295	

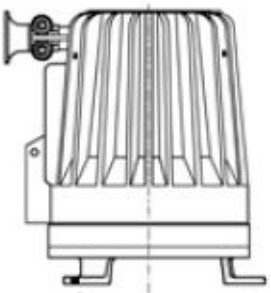
Assembly and construction materials:

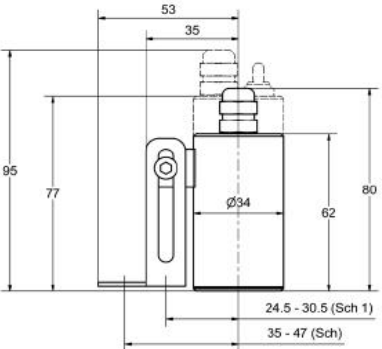
		Standard	On demand*
① ⑤	Base flange Cover flange	Steel RSt 37-2 1.4571 (= AISI 316 Ti) or 1.4541 (= AISI 321)	1.4404 (= AISI 316 L)
② ③	Gaskets	KLINGERSil C 4400	PTFE Silicone Viton Gylon
④	Glass disc	Sodium silicate to DIN 8902 (max. 150 °C)	Borosilicate to DIN 7080 (max. 280 °C)
⑥ ⑦	Nuts Bolts or studs	5.6 / 5.2	A2 / A4

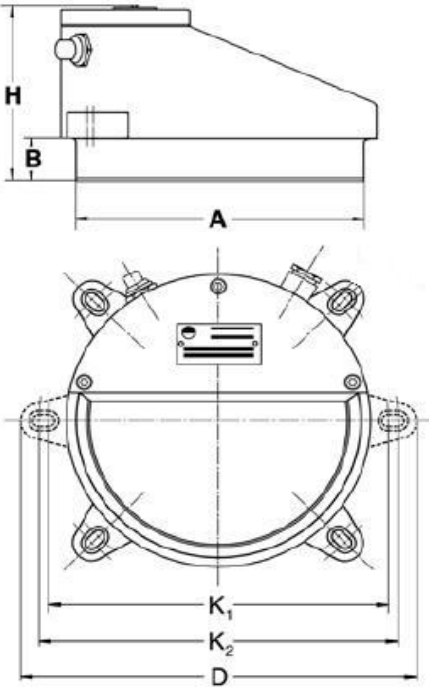
NW	D1	D3	glas	h3	D	K	Circular sightglass DIN28121 (PN10) Kijkglasarmatuur DIN28121(PN10)
40	48	63	10	36	150	110	Version A Without protective coating of sealing face  The design shows the sealing face of form B1 Version B With protective coating of sealing face 
50	65	80	12	38	165	125	
80	80	100	15	46	200	160	
100	100	125	15	46	220	180	
125	125	150	20	54	250	210	
150	125	150	20	54	285	240	
200	150	175	20	54	340	295	

Assembly and construction materials:

①	Base flange (Version A) Form B1: Raised faced to DIN EN 1092-1 (standard) Form C: Tongue to DIN EN 1092-1 Form E: Male socket to DIN EN 1092-1 Base flange (Version B) (only deliverable with sealing face of form B and E)	Boilerplate H II to DIN 17155 Stainless steel 1.4571 (= AISI 316 Ti) to DIN 17440 Other materials on demand
②	Gasket product side	PTFE-covered ring gasket with internal support ring
③	Gasket cover side	KLINGERSil C 4400
④	Glass disc	Borosilicate to DIN 7080 (max. 280 °C)
⑤	Cover flange	Boilerplate H II to DIN 17155 Stainless steel 1.4541 (= AISI 321) Stainless steel 1.4571 (= AISI 316 L) Other materials on demand
⑥	Security tightening bolts	5.6 / 5.2, A4

<i>Light fitting sightglass</i> <i>Opbouwlicht kijkglas</i>	NW
	Executions and technical details on request

<i>Light fitting sightglass</i> <i>Opbouwlicht kijkglas</i>	NW
	Executions and technical details on request

<i>Light firing sightglass</i> <i>Opbouwlicht kijkglas</i>	NW	A	B	H	D	K1	K2
	65	79	16	67	134	106	116
	80	99	18	74	158	128	138
	100	124	20	85	187	157	167
	125	148	23	93	212	182	192
	150	173	28	107	245	210	220
	200	224	33	107	306	270	280
Further technical details on request							

For other sightglasses see chapter 9.1

NW	A	B	C	D	E	Threaded spindle rolled Stelvoet
1/2"	100	70				
3/4"	100	70				
1"	120	84				
1,25"	150	112				
1,5"	150	112				

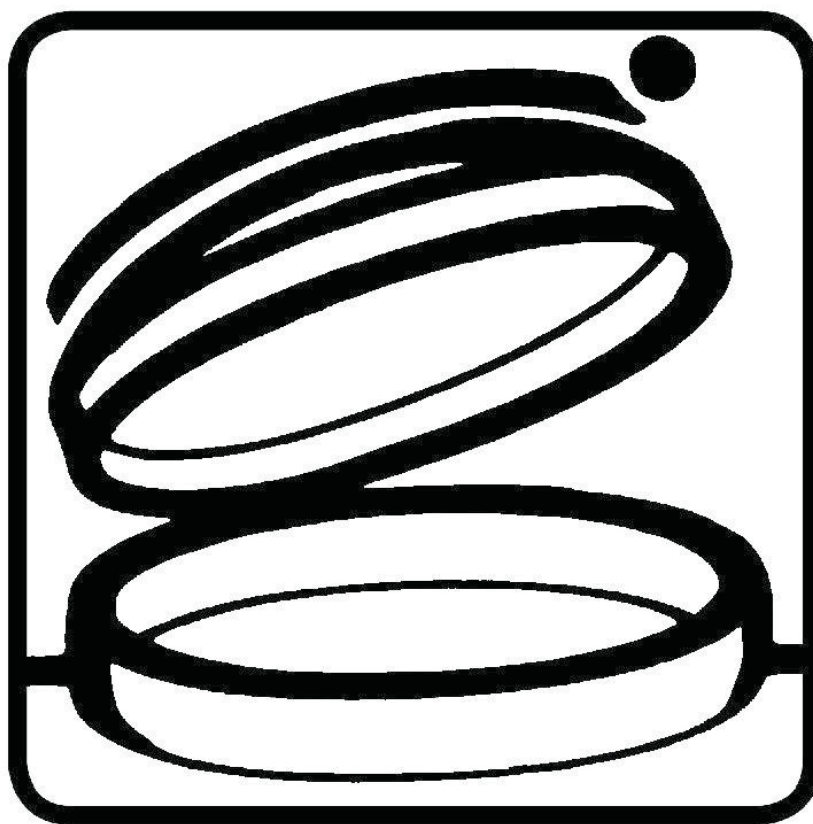
NW	A	B	C	D	E	Collar socket Stelvoetsok
1/2"	35	24	13	26		
3/4"	41	32	15	30		
1"	46	38,5	17	35		
1,25"	56	48,5	20	40		
1,5"	63	57	25	50		

NW	A	B	C	D	E	Check nut Zeskant moer
1/2"	32	8				
3/4"	36	9				
1"	41	11				
1,25"	50	12				
1,5"	60	15				

NW	A	B	C	D	E	Cup plate with securing dimples Stelvoet-voetplaat
1/2"	120	3				
3/4"	120	3				
1"	120	3				
1,25"	160	8				
1,5"	160	8				

10.3 - *Tankequipment*
Tankarmaturen

Sprayballs
Sproeibollen

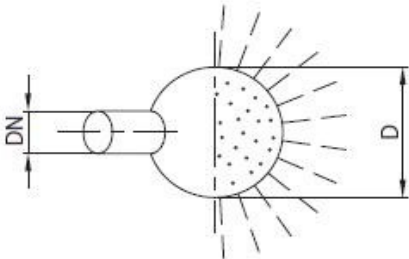


NW		D	range	m3/hr	hole	Sprayball type 'A'
						Sproeibol type 'A' 360gr
10 / 17AX	R 1/4"	28	1,54	2,28	1,3	
20 / 16AX	22x20	40	7,06	6,26	1,3	
20 / 15AX	22x20	40	5,76	4,61	1,6	
20 / 8AX	22x20	50	3,79	6,80	1,6	
20 / 9AX	R 1/2"	50	3,59	6,62	1,6	
20 / 3AX	R 3/4"	65	1,96	16,22	2,5	
25 / 10AX	28x26	50	6,47	8,89	1,6	
25 / 1AX	28x26	65	4,96	10,58	1,6	
25 / 1AX	28x26	65	2,77	19,29	2,5	
32 / 6AX	32x30	65	4,06	9,56	1,6	
32 / 6AX	32x30	65	3,59	21,96	2,5	
38 / 7AX	38/36	65	4,63	22,47	2,5	
38 / 12AX	38/36	90	3,07	29,70	2,5	
40 / 2AX	40,5x38,5	65	3,99	23,14	2,5	
40 / 4AX	40,5x38,5	90	3,07	29,70	2,5	
40 / 11AX	R 1 1/4"	90	4,66	36,60	2,5	
50 / 14AX	60,3x52,8	120	3,06	23,27	2,5	

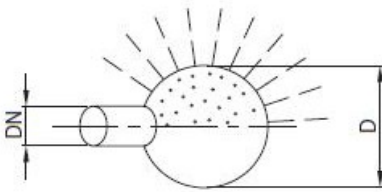
working pressure: 1,5bar

NW		D	range	m3/hr	hole	Sprayball type 'B'
						Sproeibol type 'B' 180gr omhoog
10 / 17BX	R 1/4"	28	2,52	1,48	1,3	
20 / 16BX	22x20	40	9,69	3,71	1,3	
20 / 15BX	22x20	40	8,30	2,83	1,6	
20 / 8BX	22x20	50	5,81	4,26	1,6	
20 / 9BX	R 1/2"	50	4,49	3,74	1,6	
20 / 3BX	R 3/4"	65	3,35	10,70	2,5	
25 / 10BX	28x26	50	10,81	5,81	1,6	
25 / 1BX	28x26	65	7,41	6,51	1,6	
25 / 1BX	28x26	65	4,61	12,55	2,5	
32 / 6BX	32x30	65	4,66	5,16	1,6	
32 / 6BX	32x30	65	3,85	11,47	2,5	
38 / 7BX	38/36	65	3,62	10,03	2,5	
38 / 12BX	38/36	90	3,72	16,46	2,5	
40 / 2BX	40,5x38,5	65	3,14	10,35	2,5	
40 / 4BX	40,5x38,5	90	4,28	4,96	2,5	
40 / 11BX	R 1 1/4"	90	3,35	15,62	2,5	
50 / 14BX	60,3x52,8	120	3,49	12,49	2,5	

working pressure: 1,5bar

Sprayball type 'C'		NW	D	range	m3/hr	hole
Sproeibol type 'C' 180gr omlaag						
		10 / 17CX	R 1/4"	28	3,44	1,73
		20 / 16CX	22x20	40	10,56	3,87
		20 / 15CX	22x20	40	8,94	2,96
		20 / 8CX	22x20	50	5,20	4,03
		20 / 9CX	R 1/2"	50	4,81	3,87
		20 / 3CX	R 3/4"	65	3,79	11,37
		25 / 10CX	28x26	50	10,93	5,84
		25 / 1CX	28x26	65	8,05	6,79
		25 / 1CX	28x26	65	4,88	12,92
		32 / 6CX	32x30	65	5,03	5,37
		32 / 6CX	32x30	65	4,91	12,95
		38 / 7CX	38/36	65	7,37	14,31
		38 / 12CX	38/36	90	5,22	19,49
		40 / 2CX	40,5x38,5	65	5,54	13,76
		40 / 4CX	40,5x38,5	90	4,53	3,59
		40 / 11CX	R 1 1/4"	90	5,22	19,49
		50 / 14CX	60,3x52,8	120	2,69	10,95

working presure: 1,5bar

Sprayball type 'D'		NW	D	range	m3/hr	hole
Sproeibol type 'D' 180gr zijwaarts						
		10 / 17DX	R 1/4"	28	3,53	1,75
		20 / 16DX	22x20	40	10,70	3,90
		20 / 15DX	22x20	40	9,18	2,97
		20 / 8DX	22x20	50	6,16	4,38
		20 / 9DX	R 1/2"	50	5,40	4,10
		20 / 3DX	R 3/4"	65	3,75	11,32
		25 / 10DX	28x26	50	10,15	5,63
		25 / 1DX	28x26	65	7,63	6,61
		25 / 1DX	28x26	65	4,49	12,38
		32 / 6DX	32x30	65	4,91	5,31
		32 / 6DX	32x30	65	4,50	12,40
		38 / 7DX	38/36	65	5,86	12,76
		38 / 12DX	38/36	90	4,20	17,48
		40 / 2DX	40,5x38,5	65	4,61	12,55
		40 / 4DX	40,5x38,5	90	4,01	4,79
		40 / 11DX	R 1 1/4"	90	4,70	18,49
		50 / 14DX	60,3x52,8	120	3,41	12,35

working presure: 1,5bar