

2015
CATALOGUE

BUPOSPOL



**STAINLESS STEEL
PRODUCTS**

ARMATURKA KOUKOL
ČESKÉ BUDĚJOVICE

CERTIFICAZIONE
DI PRODOTTO
BUREAU VERITAS
Certification



BUPOS POL

BUPOS POL, ARMATURKA KOUKOL, spol. s r. o.

VRBENSKÁ 25/1, 370 01 ČESKÉ BUDĚJOVICE, CZECH REPUBLIC
TEL.: +420 387 410 001, E-MAIL: INFO@BUPOS POL.CZ
WWW.BUPOS POL.CZ

BASIC INFORMATIONS

BUOSPOL, armaturka Koukol spol. s r.o. is a purely Czech company founded by Mr. Josef Koukol in 1991 and builds on the pre-war production of fittings in the town of České Budějovice.

Production of stainless steel fittings was housed in rented premises until 1997. Since that year, the company moved into its own building, where were built new production facilities. Technical production facilities went through renovation as well. Conventional machines were supplemented by cutting machines, CNC lathes, semi-automatic spot welding and welders with forced cooling and pressure blasting device using ceramic and glass materials.

Design department was equipped with 3D Autodesk Inventor and AutoCAD 2D. All these changes enable a significant expansion of the production program.

Since 1998, the company is certified ISO 9002: 1994, and in 2000 was extended to ISO 9001: 1994, and then the company was recertified ISO 9001: 2008.

BUOSPOL is a regular supplier of many manufacturers in food, pharmaceutical industry and in light chemical industry throughout the Czech Republic. Directly or through domestic customers also supplies products to other countries like Slovakia, Romania, Poland, Hungary, Lithuania, the Russian Federation, Ukraine, Japan, Germany, Italy, Denmark, Portugal and other countries.

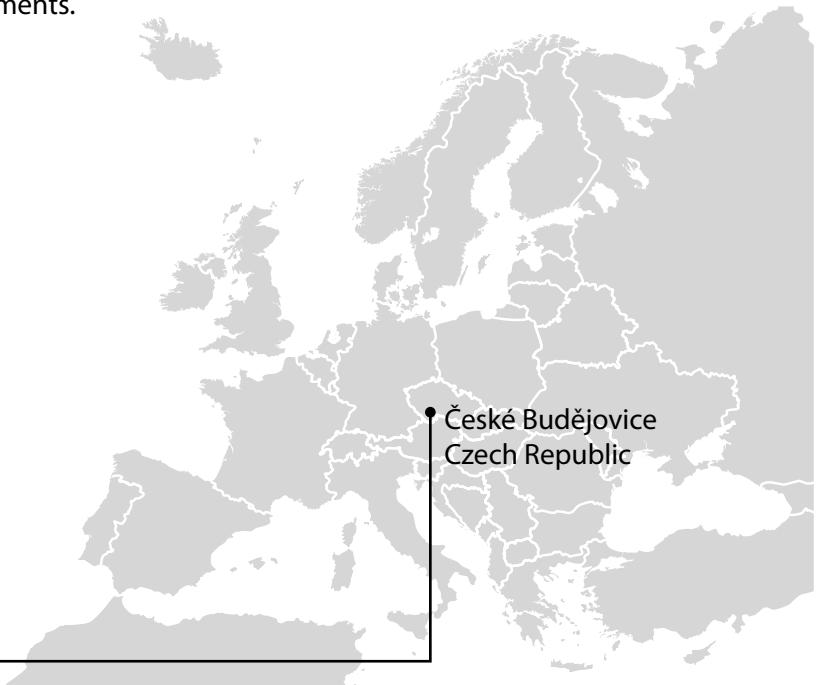
PRODUCTION PROGRAM:

Valves and fittings for the food and pharmaceutical industry: fittings, direct and three-way butterfly valves and ball valves, sight glasses, sampling taps, level indicators, reverse valves, clamps, sleeves and stirrups, pressure relief valves, filters, double and vacuum valves, manholes oval, round and rectangular, stainless steel fittings replacing brass valves and components for cellars and bottling plant.

Special valves for brewing: the spunding device, the saturation and aeration plugs, flowmeters, valves with flange for lagering tanks.

Special valves for the processing and production of wines: wine valves, flotation devices.

Except the manufactured and supplied products featured in our catalogue, we also produce atypical products according to customers' designs and requirements.



STAINLESS STEEL

DIN 1.4301 – AISI 304:

Steel resistant to water, steam, humidity, weak organic and inorganic acids. It is being used in food, dairy, brewing and wine industry, pharmaceutical and cosmetics industries, the construction of chemical devices, surgical instruments, the construction of taps and kitchen, sanitary facilities.

DIN 1.4401 – AISI 316:

Steel resistant permanent contact with water, steam and air humidity. It is being used in the chemical, pharmaceutical and food industry.

DIN 1.4404, 1.4435 – AISI 316L:

Steel with increased corrosion resistance in chemical environments. Used for the instruments and devices in the chemical industry with high chemical stress, especially formic acid, acetic acid, sulfuric acid and phosphoric acid. Other areas of the use are contact with seawater, industrial paints, varnishes, sulphides.

DIN 1.4571 – AISI 316Ti:

Steel suitable for structural components, instruments and devices in the chemical industry when using non-oxidizing acids and where are materials free of molybdenum not good enough. Traditional application areas are chemical, pharmaceutical, rubber and industry for pulp production, textile and dyes, production of fertilizers, plastics and fuels.

CHEMICAL STRUCTURE OF STAINLESS STEEL

CZ	DE	USA	IT										
				C	Si	Mn	P	S	N	Cr	Mo	Ni	Ti
PN	DIN	ASTM	UNI										
17 240	1.4301	AISI 304	X5CrNi1810	≤0,07	≤ 1	≤ 2	≤0,045	≤0,03	≤0,11	17–19		8–10	
17 346	1.4401	AISI 316	X5CrNiMo1712.2	≤0,07	≤ 1	≤ 2	≤0,045	≤0,03	≤0,11	16,5–18,5	2–2,5	10–13	
17 349	1.4404	AISI 316L	X5CrNiMo1713.2	≤0,03	≤ 1	≤ 2	≤0,045	≤0,03	≤0,11	16,5–18,5	2–2,5	10–12	
17 348	1.4571	AISI 316Ti	X5CrNiMoTi1712	≤0,08	≤ 1	≤ 2	≤0,045	≤0,03		16,5–18,5	2–2,5	10,5–13,5	5xC–0,7

SEALING

common term	ASTM term	operating temperature °C	good for	unsuitable for
Perbunan	NBR	–30 °C up to +100 °C +120 °C short-term	petrol and mineral oils	polar solvents, chlorinated hydrocarbons
EPDM	EPDM	–50 °C/+150 °C	can stand the warm water and steam up to 130 °C and organic and an-organic acids and alkalines	bio oils, mineral oils
Silikon	VMQ	–40 °C/+200 °C	can stand the freezing and its good for food industry and alcohol	concentrated acids, esters and ketones
Viton	FKM	–20 °C/+200 °C	mineral and bio oils and fuels	polar solvents
Teflon	PTFE	–200 °C/+240 °C	acids, salts, alkaline liquids, solvents even in higher temperatures	liquid alkaline metals, compounds of fluor

GLASS

SIGHT GLASS / GLASS TUBES

Visors and tubes are made of borosilicate glass 3.3. Glass is due to its chemical composition and properties classified in a group of clean, hard, borosilicate glass 3.3 and meets all international norms and standards ISO 3585, ISO resp.CSN 3585 and ASTM E 438 Type I, Class A.

RESISTANCE TO TEMPERATURE CHANGES

Resistance to temperature changes is by ISO 718 as the temperature difference between the hot test piece and cold water bath. Resistance to temperature variations of tubes depends on the wall thickness, shape and size of the chilled surfaces. It is recommended not to exceed the temperature difference of 80 °C. At thicker walls, this thermal difference is limited at lower values.

CHEMICAL RESISTANCE

Class of chemical resistance against:

- water (ISO 719) HGB 1
- acids (ISO 1776 a DIN 12116) Class S1
- lyes (ISO 695) Class A2

The glass is very resistant to water, acid solutions, strong acids and its mixtures, to chlorine, bromine, iodine and organic compounds. Its chemical durability is better than most metals and other materials. Hydrofluoric acid, hot phosphoric acid and alkaline solutions act on the surface of glass, depending on concentration and temperature.

DIMENSIONAL SERIES OF FITTINGS

Fittings	Thinwalled	Thickwalled	For Beading	BUPOSPOL*	SMS**	
NORM	11851			ČSN*		
TUBE DIMENSIONS	DIN 11850					
DN10	13×1,5	15×2,5	18×2,9	–	–	–
DN15	19×1,5	21×2,5	24×2,9	–	–	–
DN20	23×1,5	25×2,5	30×3,9	25×2,5	DN25	25×2,5
DN25	29×1,5	31×2,5	35×3,4	31×2,5	DN38	38×2,5
DN32	35×1,5	37×2,5	41×3,4	37×2,5	DN51	51×2,5
DN40	41×1,5	43×2,5	48×3,9	43×2,5	DN63	63,5×3
DN50	53×1,5	55×2,5	61×4,4	54×2	DN76	76×4
DN65	70×2	72×3	79×4,4	72×3	DN101	101,6×4
DN80	85×2	87×3	93×3,9	87×3	–	–
DN100	104×2	106×3	114×4,9	106×3	–	–
DN125	130×2,5	132×3,5	–	–	–	–
DN150	155×2,5	157×3,5	–	–	–	–

* according to norm ČSN

** according to norm DIN 11864, B

CONVERSION TABLES

PRESSURE

	Unit of measure	abbreviation	value transfer
1 Bar =	pascal	Pa	100 000 pascals
	hektopascal	hPa	1 000 hektopascals
	kilopascal	kPa	100 kilopascals
	megapascal	MPa	0,1 megapascals
	physical atmosphere	atm	0,987 physical atmospheres
	metres of water column	m H ₂ O	10,197 metres of water column
	square inch pressure	psi	14,504 pound-force per sq. inch

TEMPERATURE

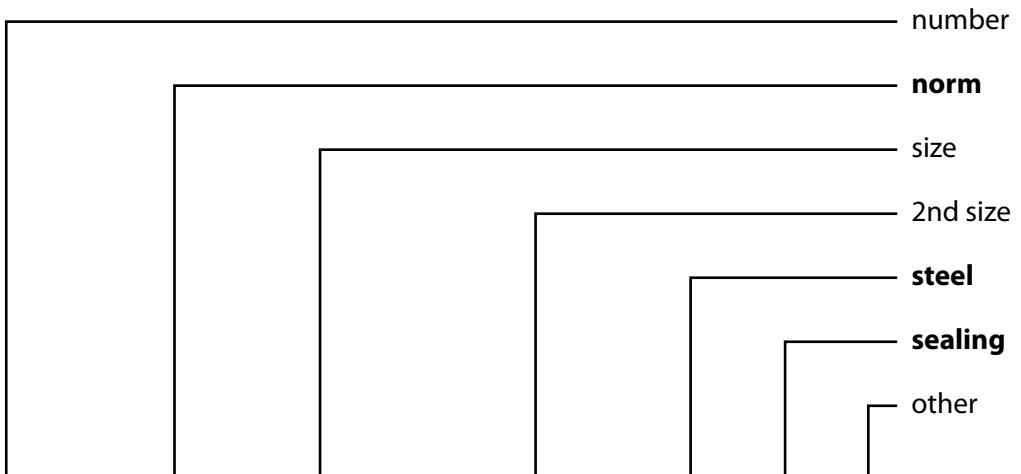
	Unit of measure	abbreviation	value transfer
1 °C =	kelvin	K	274,15 kelvin
	Fahrenheit	°F	33,8 Fahrenheit

LENGTH

	Unit of measure	abbreviation	value transfer
1 m =	milimeter	mm	1000 milimeters
	centimeter	cm	100 centimeters
	inch	in	39,37 inches
	feet	ft	3,281 feet

	DN	(inch)	(mm)
DN inch mm	8	1/4"	6,35
	10	3/8"	9,25
	15	1/2"	12,7
	20	5/8"	19
	25	1"	25,4
	32	1 1/4"	31,7
	40	1 1/2"	38,1
	50	2"	51
	65	2 1/2"	63,5
	80	3"	76,1
	100	4"	104

PRODUCT NUMBER



2010 0 025 000 1 1 0

norm		steel		sealing	
0	Standard	0	not used	0	not used
1	thinwalled R	1	AISI 304 brushed	1	NBR
2	thickwalled	2	AISI 316L brushed	2	EPDM
3	BUPOS POL (ČSN)	3	AISI 316Ti brushed	3	SILIKON
4	for beading	4	AISI 304 polished	4	PTFE
5	SMS	5	AISI 316L polished	5	VITON
6	ISO DIN 11853-1	6	AISI 316Ti polished	6	PTFE/VITON
7	DIN 1	7		7	PTFE/KOKS
8	DIN 2	8		8	SILON
9	SIGMA	9	overlay DLC	9	

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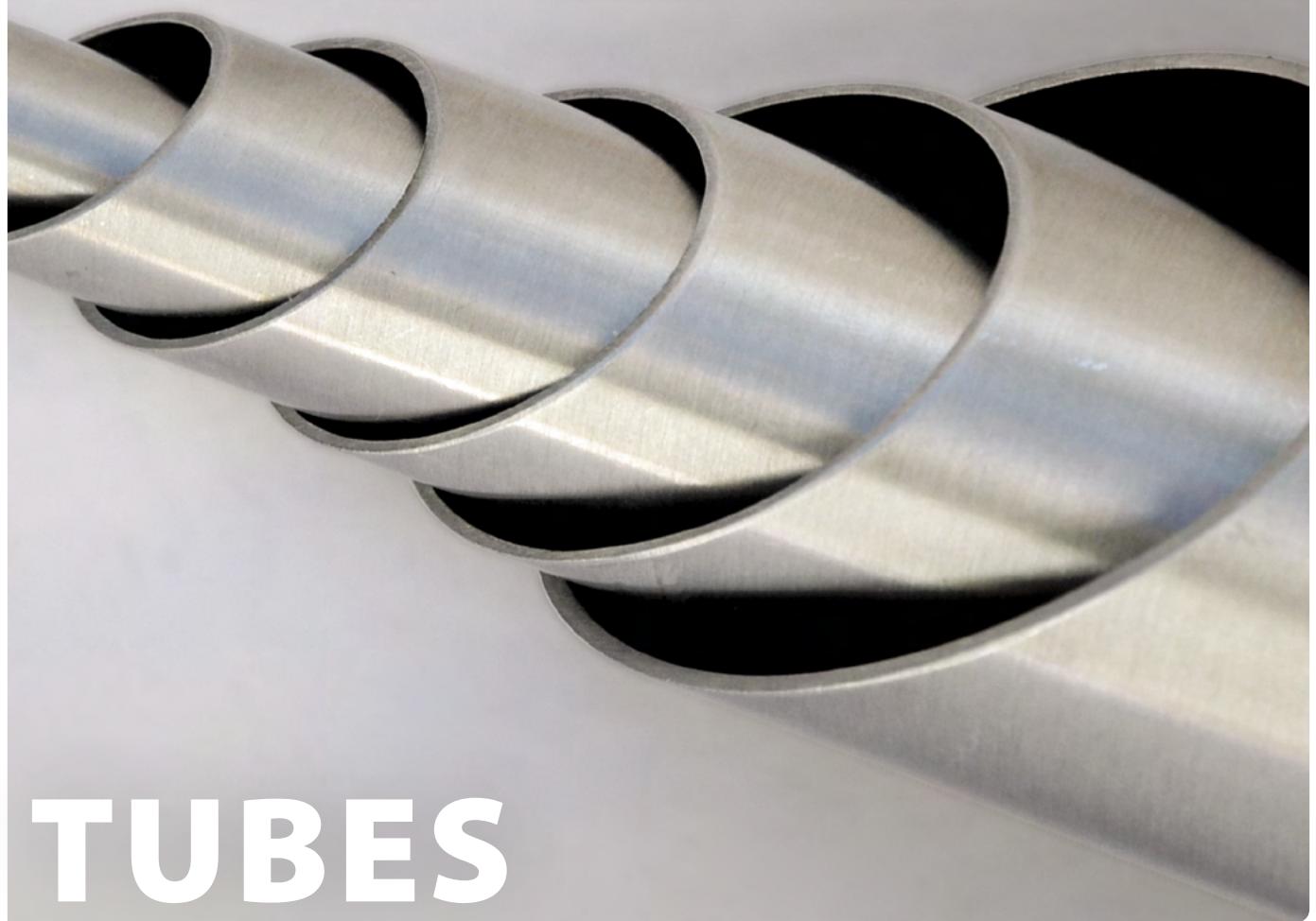
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1



TUBES

1.0

TUBES

13

TUBES

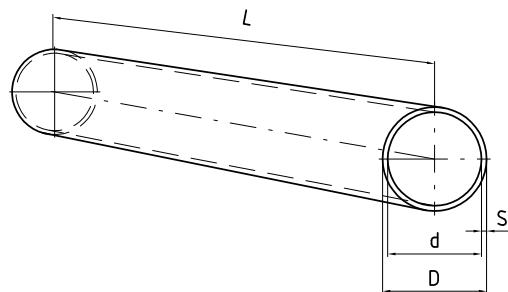
Pipe connections between the products from our catalog.

Pipe connections are made of stainless steel AISI 304 or AISI 316L, in accordance with the standard DIN 11850.

The standard finish up to DN 100 is brushed surface, over this dimension there is stained or metallic shiny surface.

After the agreement we may supply another dimension series or surface finishes according to customer requirements.

ORDERING NUMBER						TUBE
PRODUCT No.	DN	D	S	L	kg/m	
1101 0	010	12	1	6000	0,276	
1101 0	015	18	1	6000	0,426	
1101 0	020	22	1	6000	0,526	
1101 0	025	28	1	6000	0,676	
		28	1,5	6000	0,995	
1101 0	032	34	1	6000	0,826	
		34	1,5	6000	1,221	
1101 0	040	40	1	6000	0,977	
		40	1,5	6000	1,446	
1101 0	050	52	1	6000	1,277	
		52	1,5	6000	1,897	
1101 0	065	70	2	6000	3,405	
1101 0	080	85	2	6000	4,156	
1101 0	100	104	2	6000	5,108	
1101 0	125	129	2	6000	6,360	
1101 0	150	154	2	6000	7,612	



2



TUBE PARTS

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TUBE PARTS

Fittings and clamp connections are designed for connecting valves and tubes.

Fittings connections are made of stainless steel AISI 304 and AISI 316L, in accordance with the standard DIN 11850. They are used where it is required to comply with hygiene and sanitation standards. Joint guarantee high chemical resistance.



Fitting parts can be connected to the pipe by welding or by beading.

Fitting consists of a male part, liner, nut and sealing. Fittings can be supplied by a blinding nut.

Fittings are in sizes DN10 to DN150.

Clamp connections are in sizes DN10 to DN200.

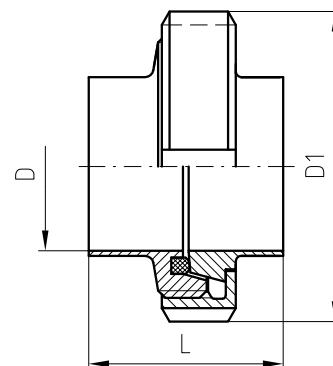
The standard finish is machined surface.

Bends, adaptors and reducers, along with **Tees** and **crosses**, are used as branching shaped parts, branches or reduction, necessary for assembling piping systems. thinwalled fittings, DIN 11851

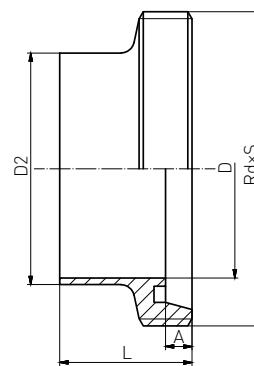
Hose adaptors are used to connect fittings and hoses. May be for welding, ended by one of the fitting parts, clamp connecting piece.

Sleeves and stirrups used to anchor fittings.

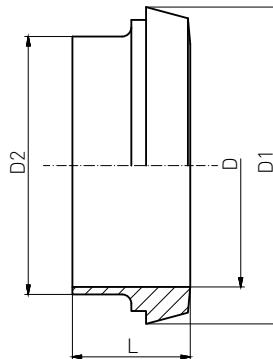
ORDERING NUMBER							FITTING UNION THIN WALLED
PRODUCT No.	DN	D	D1	L	Rd×S	kg	
2012 1	010	10	38	35	28×1/8"	0,145	
2012 1	015	16	44	35	34×1/8"	0,170	
2012 1	020	20	54	37	44×1/6"	0,280	
2012 1	025	26	63	45	52×1/6"	0,325	
2012 1	032	32	70	51	58×1/6"	0,488	
2012 1	040	38	78	53	65×1/6"	0,570	
2012 1	050	50	92	57	78×1/6"	0,800	
2012 1	065	66	112	65	95×1/6"	1,200	
2012 1	080	81	127	75	110×1/4"	1,700	
2012 1	100	100	148	89	130×1/4"	2,405	
2012 1	125	125	178	64	160×1/4"	3,350	
2012 1	150	150	210	74	190×1/4"	5,300	



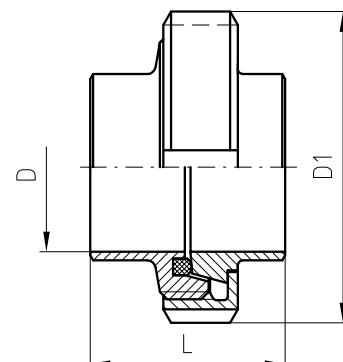
ORDERING NUMBER							MALE PART THIN WALLED
PRODUCT No.	DN	D	D2	L	A	Rd×S	kg
2010 1	010	10	13	21	4	28×1/8"	0,040
2010 1	015	16	19	21	4	34×1/8"	0,044
2010 1	020	20	23	24	6	44×1/6"	0,092
2010 1	025	26	29	29	7	52×1/6"	0,123
2010 1	032	32	35	32	7	58×1/6"	0,149
2010 1	040	38	41	33	7	65×1/6"	0,180
2010 1	050	50	53	35	7	78×1/6"	0,257
2010 1	065	66	70	40	8	95×1/6"	0,290
2010 1	080	81	85	45	8	110×1/4"	0,572
2010 1	100	100	104	54	10	130×1/4"	0,740
2010 1	125	125	130	46	12	160×1/4"	1,100
2010 1	150	150	155	50	13	190×1/4"	1,900



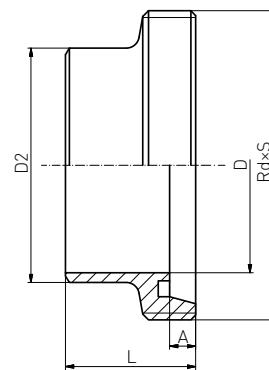
ORDERING NUMBER							LINER THIN WALLED
PRODUCT No.	DN	D	D1	D2	L	kg	
2011 1	010	10	22,5	13	17	0,028	
2011 1	015	16	28,5	19	17	0,036	
2011 1	020	20	36,5	23	18	0,063	
2011 1	025	26	44	29	22	0,083	
2011 1	032	32	50	35	25	0,119	
2011 1	040	38	56	41	26	0,137	
2011 1	050	50	68,5	53	28	0,195	
2011 1	065	66	86	70	32	0,316	
2011 1	080	81	100	85	37	0,400	
2011 1	100	100	121	104	44	0,620	
2011 1	125	125	150	130	34	0,746	
2011 1	150	150	176	155	37	1,080	



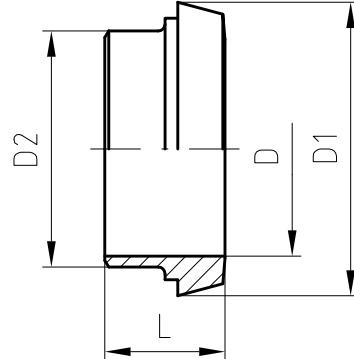
ORDERING NUMBER							FITTING UNION THICK WALLED
PRODUCT No.	DN	D	D1	L	Rd×S	kg	
2012 2	010	10	38	35	28×1/8"	0,145	
2012 2	015	16	44	35	34×1/8"	0,170	
2012 2	020	20	54	37	44×1/6"	0,280	
2012 2	025	26	63	45	52×1/6"	0,325	
2012 2	032	32	70	51	58×1/6"	0,488	
2012 2	040	38	78	53	65×1/6"	0,570	
2012 2	050	50	92	57	78×1/6"	0,800	
2012 2	065	66	112	65	95×1/6"	1,200	
2012 2	080	81	127	75	110×1/4"	1,700	
2012 2	100	100	148	89	130×1/4"	2,405	
2012 2	125	125	178	69	160×1/4"	3,350	
2012 2	150	150	210	75	190×1/4"	5,300	



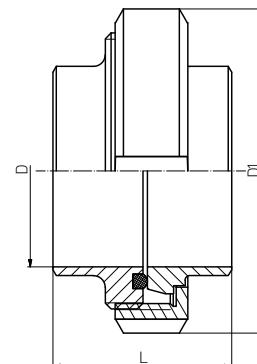
ORDERING NUMBER							MALE PART THICK WALLED
PRODUCT No.	DN	D	D2	L	A	Rd×S	kg
2010 2	010	10	15	21	4	28×1/8"	0,040
2010 2	015	16	21	21	4	34×1/8"	0,044
2010 2	020	20	25	24	6	44×1/6"	0,092
2010 2	025	26	31	29	7	52×1/6"	0,123
2010 2	032	32	37	32	7	58×1/6"	0,149
2010 2	040	38	43	33	7	65×1/6"	0,180
2010 2	050	50	55	35	7	78×1/6"	0,257
2010 2	065	66	72	40	8	95×1/6"	0,290
2010 2	080	81	87	45	8	110×1/4"	0,572
2010 2	100	100	106	54	10	130×1/4"	0,740
2010 2	125	125	132	46	12	160×1/4"	1,100
2010 2	150	150	157	50	13	190×1/4"	1,900



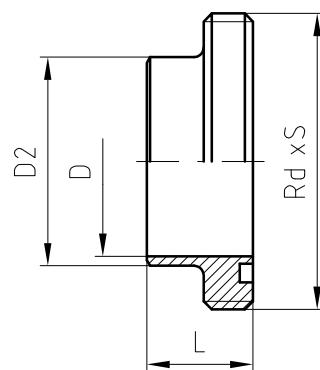
ORDERING NUMBER							LINER THICK WALLED
PRODUCT No.	DN	D	D1	D2	L	kg	
2011 2	010	10	22	15	17	0,028	
2011 2	015	16	28	21	17	0,036	
2011 2	020	20	36	25	18	0,063	
2011 2	025	26	44	31	22	0,083	
2011 2	032	32	50	37	25	0,119	
2011 2	040	38	56	43	26	0,137	
2011 2	050	50	68	55	28	0,195	
2011 2	065	66	86	72	32	0,316	
2011 2	080	81	100	87	37	0,400	
2011 2	100	100	121	106	44	0,620	
2011 2	125	125	150	132	34	0,746	
2011 2	150	150	176	157	37	1,080	



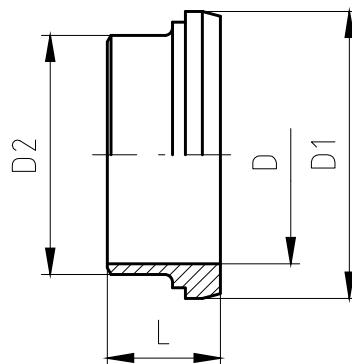
ORDERING NUMBER		FITTING UNION BUPOSOL				
PRODUCT No.	DN	D	D1	L	Rd×S	kg
2012 3	020	20	54	39	44×1/6"	0,293
2012 3	025	26	63	42,5	52×1/6"	0,404
2012 3	032	32	70	48,5	58×1/6"	0,489
2012 3	040	38	78	51,5	65×1/6"	0,591
2012 3	050	50	92	54,5	78×1/6"	0,775
2012 3	065	66	112	61,5	95×1/6"	1,341
2012 3	080	81	127	71,5	110×1/4"	1,813
2012 3	100	100	148	75	130×1/4"	2,393



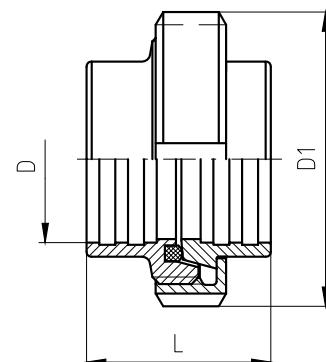
ORDERING NUMBER		MALE PART BUPOSOL				
PRODUCT No.	DN	D	D2	L	Rd×S	kg
2010 3	020	20	25	21	44×1/6"	0,121
2010 3	025	26	31	21	52×1/6"	0,159
2010 3	032	32	37	24	58×1/6"	0,190
2010 3	040	38	43	26	65×1/6"	0,232
2010 3	050	50	54	28	78×1/6"	0,297
2010 3	065	66	72	31	95×1/6"	0,432
2010 3	080	81	87	35	110×1/4"	0,738
2010 3	100	100	106	35	130×1/4"	0,913



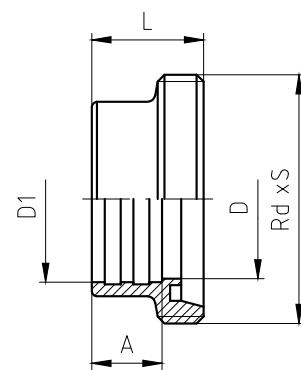
ORDERING NUMBER		LINER BUPOSOL				
PRODUCT No.	DN	D	D1	D2	L	kg
2011 3	020	20	35,5	25	16	0,049
2011 3	025	26	42,5	31	20	0,079
2011 3	032	32	48,5	37	23	0,100
2011 3	040	38	54,5	43	24	0,120
2011 3	050	50	67	54	25	0,152
2011 3	065	66	84,5	72	29	0,273
2011 3	080	81	100	87	35	0,367
2011 3	100	100	121	106	39	0,526



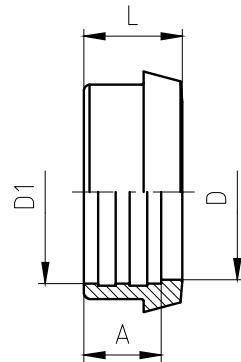
ORDERING NUMBER							FITTING UNION FOR BEADING
PRODUCT No.	DN	D	D1	L	Rd×S	kg	
2012 4	010	12,2	38	35	28×1/8"	0,131	
2012 4	015	18,2	44	35	34×1/8"	0,162	
2012 4	020	22,2	54	37	44×1/6"	0,275	
2012 4	025	28,2	63	45	52×1/6"	0,380	
2012 4	032	34,2	70	51	58×1/6"	0,470	
2012 4	040	40,2	78	53	65×1/6"	0,560	
2012 4	050	52,2	92	57	78×1/6"	0,700	
2012 4	065	70,3	112	65	95×1/6"	1,150	
2012 4	080	85,3	127	75	110×1/4"	1,620	
2012 4	100	104,3	148	89	130×1/4"	2,300	



ORDERING NUMBER							MALE PART FOR BEADING
PRODUCT No.	DN	D	D1	L	A	Rd×S	kg
2010 4	010	10	12,2	21	12	28×1/8"	0,035
2010 4	015	16	18,2	21	12	34×1/8"	0,040
2010 4	020	20	22,2	24	12	44×1/6"	0,090
2010 4	025	26	28,2	29	15	52×1/6"	0,120
2010 4	032	32	34,2	32	18	58×1/6"	0,140
2010 4	040	38	40,2	33	20	65×1/6"	0,175
2010 4	050	50	52,2	35	22	78×1/6"	0,250
2010 4	065	66	70,3	40	25	95×1/6"	0,280
2010 4	080	81	85,3	45	28	110×1/4"	0,550
2010 4	100	100	104,3	54	35	130×1/4"	0,720



ORDERING NUMBER							LINER FOR BEADING
PRODUCT No.	DN	D	D1	L	A	kg	
2011 4	010	10	12,2	17	12	0,020	
2011 4	015	16	18,2	17	12	0,030	
2011 4	020	20	22,2	18	12	0,060	
2011 4	025	26	28,2	22	15	0,080	
2011 4	032	32	34,2	25	18	0,110	
2011 4	040	38	40,2	26	20	0,130	
2011 4	050	50	52,2	28	22	0,190	
2011 4	065	66	70,3	32	25	0,310	
2011 4	080	81	85,3	37	28	0,390	
2011 4	100	100	104,3	44	35	0,600	



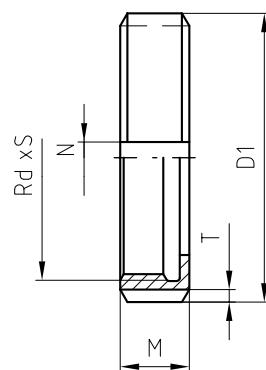
ORDERING NUMBER

PRODUCT No. DN

D1 M N T Rd×S kg

2003 0	010	38	18	6	2,5	28×1/8"	0,075
2003 0	015	44	18	7	2,5	34×1/8"	0,088
2003 0	020	54	21	7	3	44×1/6"	0,121
2003 0	025	63	21	8	3,5	52×1/6"	0,178
2003 0	032	70	21	8	4	58×1/6"	0,219
2003 0	040	78	21	10	4	65×1/6"	0,250
2003 0	050	92	22	10	4	78×1/6"	0,340
2003 0	065	112	25	10	5	95×1/6"	0,550
2003 0	080	127	30	10	5	110×1/4"	0,722
2003 0	100	148	31	12	5	130×1/4"	1,030
2003 0	125	178	35	12	5	160×1/4"	1,430
2003 0	150	210	40	12	6	190×1/4"	2,230

NUT



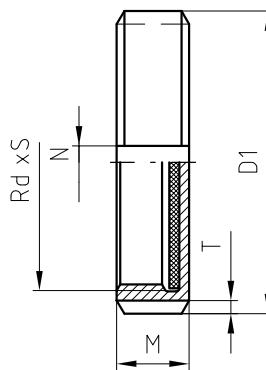
ORDERING NUMBER

PRODUCT No. DN

D1 M N T Rd×S kg

2025 0	010	38	18	6	2,5	28×1/8"	0,088
2025 0	015	44	18	7	2,5	34×1/8"	0,098
2025 0	020	54	21	7	3	44×1/6"	0,146
2025 0	025	63	21	8	3,5	52×1/6"	0,196
2025 0	032	70	21	8	4	58×1/6"	0,227
2025 0	040	78	21	10	4	65×1/6"	0,278
2025 0	050	92	22	10	4	78×1/6"	0,410
2025 0	065	112	25	10	5	95×1/6"	0,700
2025 0	080	127	30	10	5	110×1/4"	0,950
2025 0	100	148	31	12	5	130×1/4"	1,400
2025 0	125	178	35	12	5	160×1/4"	1,650
2025 0	150	210	40	12	6	190×1/4"	2,570

BLINDING NUT



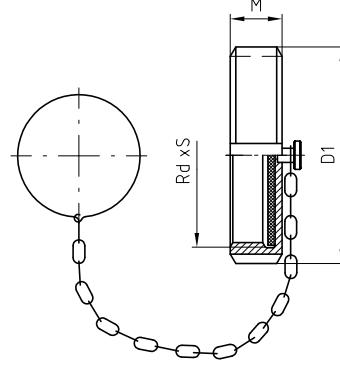
ORDERING NUMBER

PRODUCT No. DN

D1 M Rd×S kg

2029 0	010	38	18	28×1/8"	0,116
2029 0	015	44	18	34×1/8"	0,126
2029 0	020	54	21	44×1/6"	0,174
2029 0	025	63	21	52×1/6"	0,224
2029 0	032	70	21	58×1/6"	0,255
2029 0	040	78	21	65×1/6"	0,306
2029 0	050	92	22	78×1/6"	0,440
2029 0	065	122	25	95×1/6"	0,730
2029 0	080	127	30	110×1/4"	0,980
2029 0	100	148	31	130×1/4"	1,445
2029 0	125	178	35	160×1/4"	1,750
2029 0	150	210	40	190×1/4"	2,600

BLINDING NUT WITH CHAIN



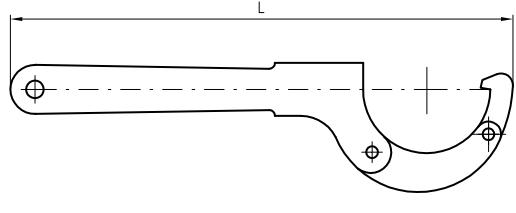
ORDERING NUMBER

PRODUCT No. DN

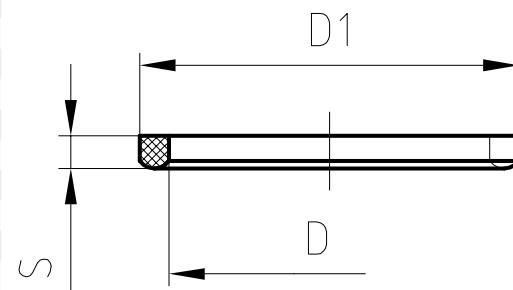
L kg

2030 0	25–65	270	0,560
2030 0	65–150	450	0,880

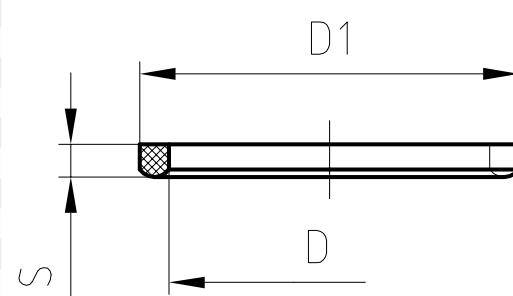
NUT KEY



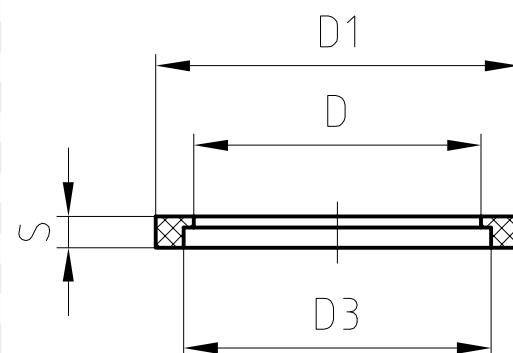
ORDERING NUMBER					SEALING FOR FITTING 5 mm
PRODUCT No.	DN	D	D1	S	
2004 0	010	12	20	5	
2004 0	015	18	26	5	
2004 0	020	23	33	5	
2004 0	025	30	40	5	
2004 0	032	36	46	5	
2004 0	040	42	52	5	
2004 0	050	54	64	5	
2004 0	065	71	81	5	
2004 0	080	85	95	5	
2004 0	100	104	114	5	
2004 0	125	130	142	5	
2004 0	150	155	167	5	



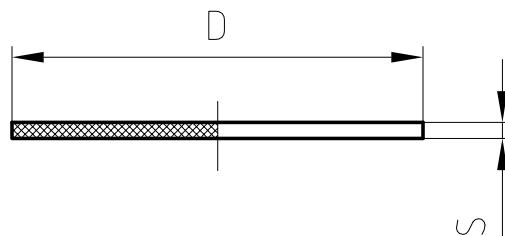
ORDERING NUMBER					SEALING FOR FITTING 7 mm
PRODUCT No.	DN	D	D1	S	
2005 0	010	12	20	7	
2005 0	015	18	26	7	
2005 0	020	23	33	7	
2005 0	025	30	40	7	
2005 0	032	36	46	7	
2005 0	040	42	52	7	
2005 0	050	54	64	7	
2005 0	065	71	81	7	
2005 0	080	85	95	7	
2005 0	100	104	114	7	
2005 0	125	130	142	7	
2005 0	150	155	167	7	



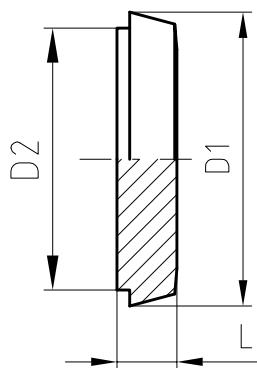
ORDERING NUMBER					SEALING FOR FITTING ASEPTIC
PRODUCT No.	DN	D	D1	D3	S
2006 0	010	10,5	20	12	5
2006 0	015	16,5	26	18	5
2006 0	020	20,5	33	23	5
2006 0	025	26,5	40	30	5,5
2006 0	032	32,5	46	36	5,5
2006 0	040	38,5	52	42	5,5
2006 0	050	50,5	64	54	5,5
2006 0	065	66,5	81	71	6
2006 0	080	81,5	95	85	6
2006 0	100	100,5	114	104	6,5
2006 0	125	125,5	142	130	7
2006 0	150	150,5	167	155	7



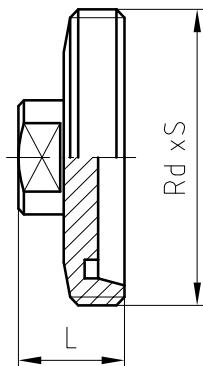
ORDERING NUMBER					SEALING FOR BLINDING NUT
PRODUCT No.	DN	D	S		
2027 0	010	28	3		
2027 0	015	34	3		
2027 0	020	44	3		
2027 0	025	52	3		
2027 0	032	58	3		
2027 0	040	65	3		
2027 0	050	78	3		
2027 0	065	95	3		
2027 0	080	110	3		
2027 0	100	130	3		
2027 0	125	160	3		
2027 0	150	190	3		



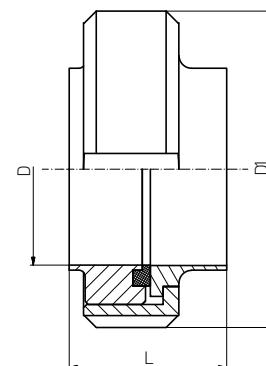
ORDERING NUMBER					BLINDING LINER
PRODUCT No.	DN	D1	D2	L	
2021 0	010	22	18	9	
2021 0	015	28	24	9	
2021 0	020	36	30	11	
2021 0	025	44	35	13	
2021 0	032	50	41	13	
2021 0	040	56	48	13	
2021 0	050	68	61	14	
2021 0	065	86	79	16	
2021 0	080	100	93	16	
2021 0	100	121	114	20	
2021 0	125	150	137	22	
2021 0	150	176	163	24	



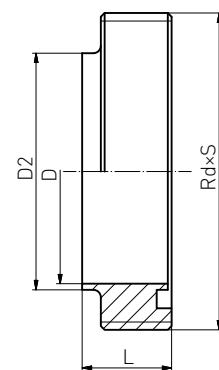
ORDERING NUMBER				BLINDING MALE PART
PRODUCT No.	DN	L	Rd×S	
2020 0	010	20	28×1/8"	
2020 0	015	21	34×1/8"	
2020 0	020	22	44×1/6"	
2020 0	025	24	52×1/6"	
2020 0	032	26	58×1/6"	
2020 0	040	26	65×1/6"	
2020 0	050	26	78×1/6"	
2020 0	065	30	95×1/6"	
2020 0	080	35	110×1/4"	
2020 0	100	35	130×1/4"	
2020 0	125	38	160×1/4"	
2020 0	150	40	190×1/4"	



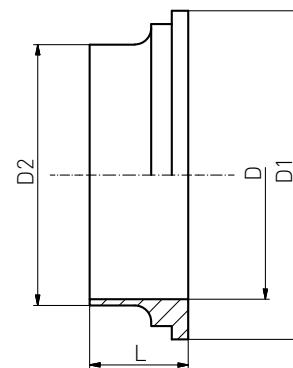
ORDERING NUMBER		FITTING UNION SMS				
PRODUCT No.	DN	D	D1	L	Rd×S	kg
2012 5	025	22,6	35,5	19	40×1/6"	0,218
2012 5	038	35,6	55	23	60×1/6"	0,554
2012 5	051	48,6	65	23	70×1/6"	0,652
2012 5	063	60,3	80	27	85×1/6"	1,053
2012 5	076	72,9	93	27	98×1/6"	1,330
2012 5	101	97,6	127	30	125×1/4"	3,457



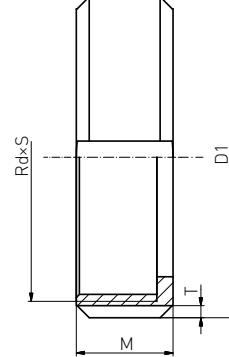
ORDERING NUMBER		MALE PART SMS				
PRODUCT No.	DN	D	D2	L	Rd×S	kg
2010 5	025	22,6	25	19	40×1/6"	0,066
2010 5	038	35,6	38	23	60×1/6"	0,200
2010 5	051	48,6	51	23	70×1/6"	0,214
2010 5	063	60,3	63,5	27	85×1/6"	0,399
2010 5	076	72,9	76,1	27	98×1/6"	0,478
2010 5	101	97,6	101,6	30	125×1/4"	1,380



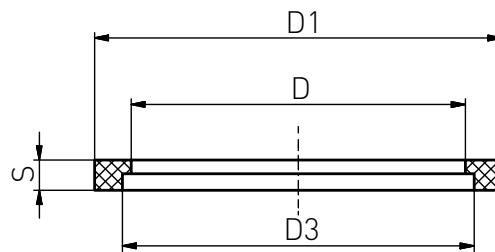
ORDERING NUMBER		LINER SMS				
PRODUCT No.	DN	D	D1	D2	L	kg
2011 5	025	22,6	35,5	25	15	0,037
2011 5	038	35,6	55	38	20	0,086
2011 5	051	48,6	65	51	20	0,111
2011 5	063	60,3	80	63,5	24	0,162
2011 5	076	72,9	93	76,1	24	0,226
2011 5	101	97,6	127	101,6	24	0,408



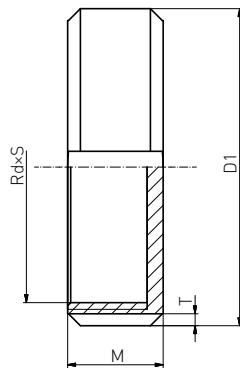
ORDERING NUMBER		NUT SMS				
PRODUCT No.	DN	D1	M	T	Rd×S	kg
2003 5	025	51	20	3	40×1/6"	0,113
2003 5	038	74	25	4	60×1/6"	0,263
2003 5	051	84	26	4	70×1/6"	0,321
2003 5	063	100	30	4	85×1/6"	0,484
2003 5	076	114	32	5	98×1/6"	0,617
2003 5	101	154	45	6	125×1/4"	1,653



ORDERING NUMBER							SEALING SMS
PRODUCT No.	DN	D	D1	D3	S	kg	
20045	025	22,6	32	25	5,5	0,002	
20045	038	35,6	48	38	5,5	0,005	
20045	051	48,6	61	51	5,5	0,006	
20045	063	60,3	73,5	63,5	5,5	0,008	
20045	076	72,9	86	76,1	5,5	0,009	
20045	101	97,6	114	101,6	5,5	0,016	



ORDERING NUMBER							BLINDING NUT SMS
PRODUCT No.	DN	D1	M	T	Rd×S	kg	
2025 5	025	51	20	3	40×1/6"	0,143	
2025 5	038	74	25	4	60×1/6"	0,331	
2025 5	051	84	26	4	70×1/6"	0,445	
2025 5	063	100	30	4	85×1/6"	0,670	
2025 5	076	114	32	5	98×1/6"	0,920	
2025 5	101	154	45	6	125×1/4"	2,185	



ORDERING NUMBER

PRODUCT No. DN

D

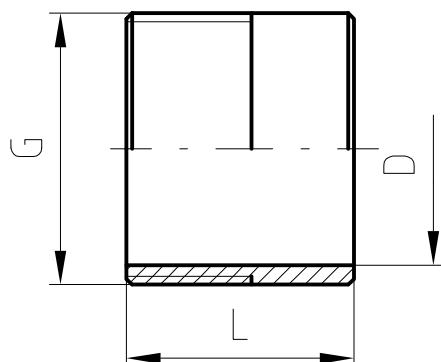
L

G

kg

NIPPLE

2051 0	008	8,9	18	1/4"	0,010
2051 0	010	12,6	20	3/8"	0,015
2051 0	015	15,5	25	1/2"	0,031
2051 0	020	21	30	3/4"	0,048
2051 0	025	27	35	1"	0,081
2051 0	032	35	40	5/4"	0,132
2051 0	040	41	40	6/4"	0,150
2051 0	050	53,1	45	2"	0,205
2051 0	080	80,9	60	3"	0,438
2051 0	100	105,3	70	4"	0,733



ORDERING NUMBER

PRODUCT No. DN

D1

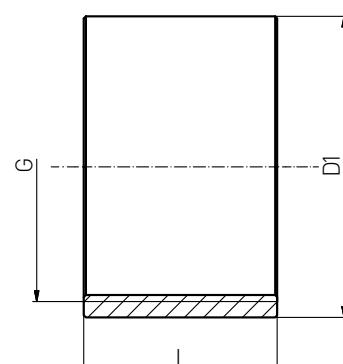
L

G

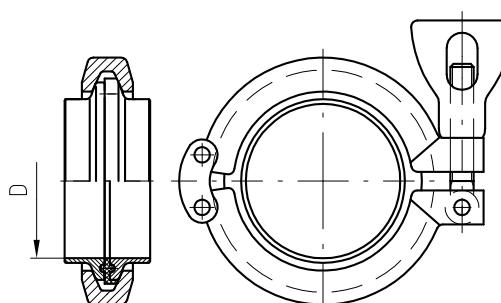
kg

SOCKET

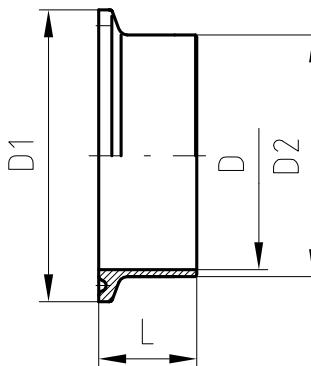
2052 0	008	18	18	1/4"	0,017
2052 0	010	20	20	3/8"	0,015
2052 0	015	25	25	1/2"	0,029
2052 0	020	32	30	3/4"	0,060
2052 0	025	38	35	1"	0,073
2052 0	032	47	48	5/4"	0,112
2052 0	040	54	48	6/4"	0,156
2052 0	050	70	52	2"	0,376
2052 0	080	95	60	3"	0,484
2052 0	100	125	70	4"	1,238



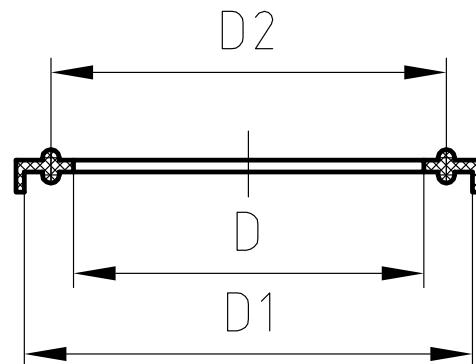
ORDERING NUMBER						kg	CLAMP UNION
PRODUCT No.	DN	D	PN				
2112 0	010	10	16			0,295	
2112 0	015	16	16			0,320	
2112 0	020	20	16			0,335	
2112 0	025	26	16			0,415	
2112 0	032	32	16			0,395	
2112 0	040	38	16			0,375	
2112 0	050	50	16			0,500	
2112 0	065	66	10			0,600	
2112 0	080	81	10			0,740	
2112 0	100	100	10			0,920	
2112 0	125	125				2,200	
2112 0	150	150				2,700	
2112 0	200	200				3,340	



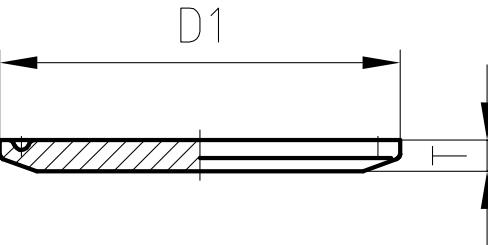
ORDERING NUMBER							kg	CLAMP CONNECTING PIECE
PRODUCT No.	DN	D	D1	D2	L	PN		
2110 0	010	10	34	13	18	16	0,059	
2110 0	015	16	34	19	18	16	0,069	
2110 0	020	20	34	23	18	16	0,078	
2110 0	025	26	50,5	29	21,5	16	0,078	
2110 0	032	32	50,5	35	21,5	16	0,065	
2110 0	040	38	50,5	41	21,5	16	0,050	
2110 0	050	50	64	54	21,5	16	0,067	
2110 0	065	66	91	70	28	10	0,081	
2110 0	080	81	106	85	28	10	0,101	
2110 0	100	100	119	104	28	10	0,201	
2110 0	125	125	155	129	28	10		
2110 0	150	150	183	154	28	10		
2110 0	200	200	233,5	204	28	10		



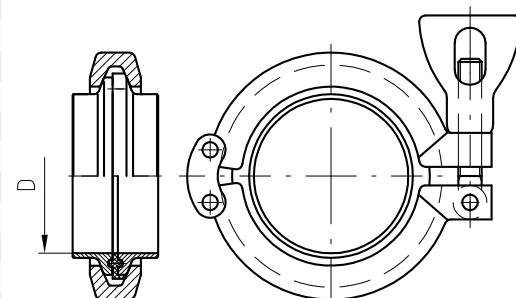
ORDERING NUMBER					kg	SEALING FOR CLAMP
PRODUCT No.	DN	D	D1	D2		
2104 0	010	10,2	34	27,5		
2104 0	015	16,2	34	27,5		
2104 0	020	20,2	34	27,5		
2104 0	025	26,2	50,5	43,5		
2104 0	032	32,2	50,5	43,5		
2104 0	040	38,2	50,5	43,5		
2104 0	050	50,2	64	56,5		
2104 0	065	66,2	91	83,5		
2104 0	080	81,2	106	97		
2104 0	100	100,2	119	110		
2104 0	125	125,2	155	146		
2104 0	150	150,2	183	174		
2104 0	200	200,2	233,5	225		



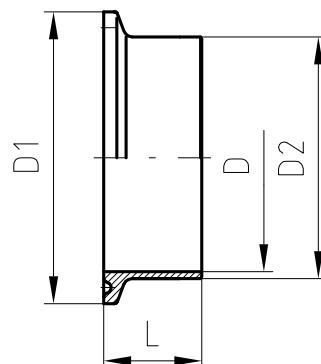
ORDERING NUMBER					kg	BLINDING CLAMP
PRODUCT No.	DN	D1	T			
2125 0	010-020	34	5		0,030	
2125 0	025-040	50,5	5	(also for SMS DN025 a DN038)	0,065	
2125 0	050	64	5	(also for SMS DN051)	0,110	
2125 0	063	77,5	5	(only for SMS DN063)	0,235	
2125 0	065	91	5	(also for SMS DN076)	0,235	
2125 0	080	106	5		0,410	
2125 0	100	119	5	(also for SMS DN101)	0,410	
2125 0	125	155	8		1,380	
2125 0	150	183	8		1,960	
2125 0	200	233,5	14		2,120	



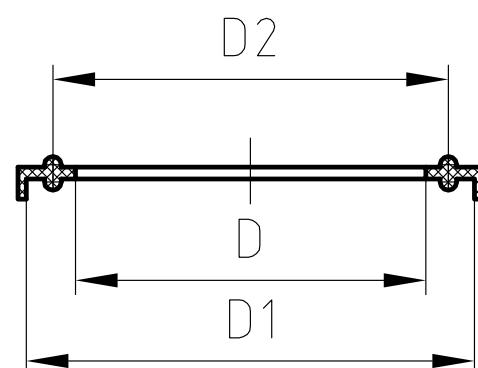
ORDERING NUMBER				CLAMP UNION SMS
PRODUCT No.	DN	D	PN	
2112 5	025	22,5	16	
2112 5	038	35,5	16	
2112 5	051	48,5	16	
2112 5	063	60,5	10	
2112 5	076	72	10	
2112 5	101	97,6	10	



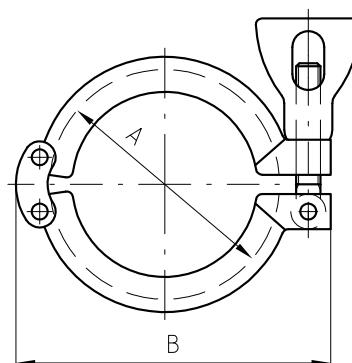
ORDERING NUMBER						CLAMP CONNECTING PIECE SMS
PRODUCT No.	DN	D	D1	D2	L	
2110 5	025	22,5	50,5	25	21,5	
2110 5	038	35,5	50,5	38	21,5	
2110 5	051	48,5	64	51	21,5	
2110 5	063	60,5	77,5	63,5	21,5	
2110 5	076	72	91	76	21,5	
2110 5	101	97,6	119	101,6	28	



ORDERING NUMBER					SEALING FOR CLAMP SMS
PRODUCT No.	DN	D	D1	D2	
2104 5	025	22,7	50,5	43,5	
2104 5	038	35,7	50,5	43,5	
2104 5	051	48,7	64	56,5	
2104 5	063	60,7	77,5	70	
2104 5	076	72,2	91	83,5	
2104 5	101	97,8	119	110	



ORDERING NUMBER					CLAMP RING
PRODUCT No.	DN	A	B	kg	
2103 0	010-020	44	67	0,180	
2103 0	025-040	60	87	(also for SMS DN025 a DN038)	0,270
2103 0	050	74	104	(also for SMS DN051)	0,330
2103 0	063	81	115	(only for SMS DN063)	0,400
2103 0	065	101	135	(also for SMS DN076)	0,400
2103 0	080	106	150		0,540
2103 0	100	129	160	(also for SMS DN101)	0,540
2103 0	125	162	203		1,100
2103 0	150	190	238		1,210
2103 0	200	240	290		1,630



ORDERING NUMBER

PRODUCT No. DN

D

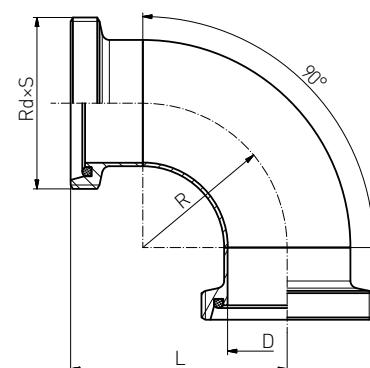
R

L

Rd×S

kg

BEND GG



ORDERING NUMBER

PRODUCT No. DN

D

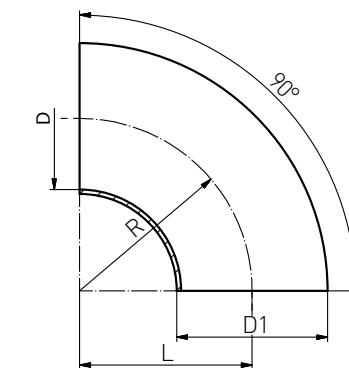
D1

R

L

kg

BEND SS



ORDERING NUMBER

PRODUCT No. DN

D

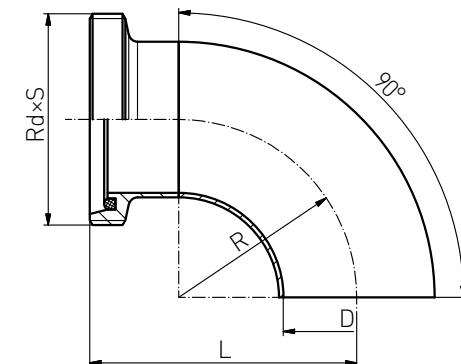
R

L

Rd×S

kg

BEND GS



ORDERING NUMBER

PRODUCT No. DN

D

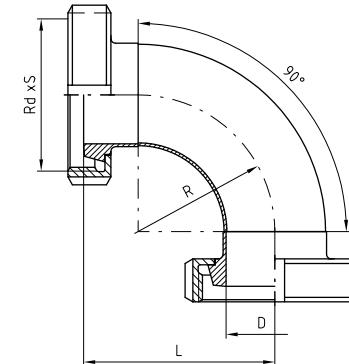
R

L

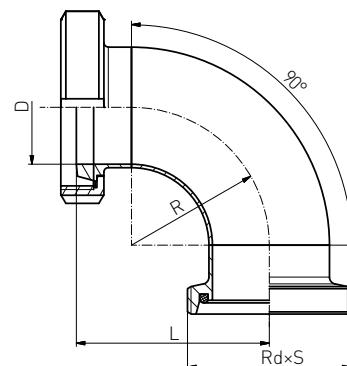
Rd×S

kg

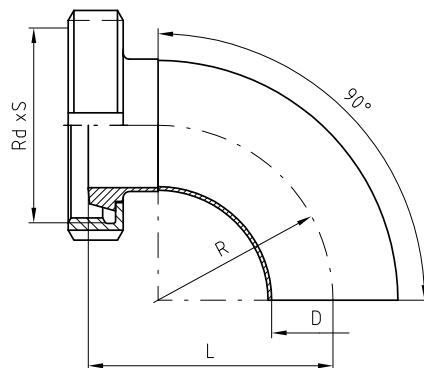
BEND KK



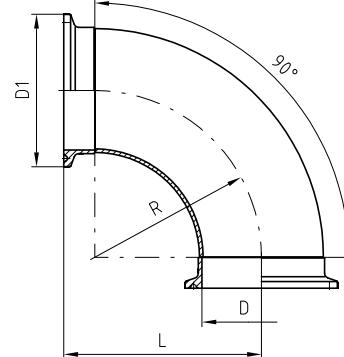
ORDERING NUMBER							BEND KG
PRODUCT No.	DN	D	R	L	Rd×S	kg	
2305 0	010	9	26	43	28×1/8"	0,170	
2305 0	015	15	35	52	34×1/8"	0,240	
2305 0	020	19	40	58	44×1/6"	0,340	
2305 0	025	25	50	72	52×1/6"	0,405	
2305 0	032	31	55	80	58×1/6"	0,505	
2305 0	040	37	60	86	65×1/6"	0,600	
2305 0	050	49	70	98	78×1/6"	0,824	
2305 0	065	66	80	112	95×1/6"	1,380	
2305 0	080	81	90	127	110×1/4"	2,170	
2305 0	100	100	100	144	130×1/4"	3,755	
2305 0	125	125	187	221	160×1/4"	4,230	
2305 0	150	150	225	262	190×1/4"	4,550	



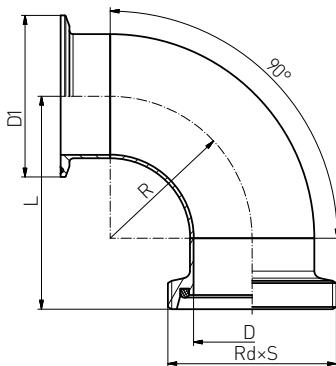
ORDERING NUMBER							BEND KS
PRODUCT No.	DN	D	R	L	Rd×S	kg	
2306 0	010	9	26	43	28×1/8"	0,095	
2306 0	015	15	35	52	34×1/8"	0,145	
2306 0	020	19	40	58	44×1/6"	0,252	
2306 0	025	25	50	72	52×1/6"	0,310	
2306 0	032	31	55	80	58×1/6"	0,385	
2306 0	040	37	60	86	65×1/6"	0,470	
2306 0	050	49	70	98	78×1/6"	0,640	
2306 0	065	66	80	112	95×1/6"	1,110	
2306 0	080	81	90	127	110×1/4"	1,605	
2306 0	100	100	100	144	130×1/4"	2,835	
2306 0	125	125	187	221	160×1/4"	3,230	
2306 0	150	150	225	262	190×1/4"	3,550	



ORDERING NUMBER							BEND CC
PRODUCT No.	DN	D	D1	R	L	kg	
2307 0	010	9	34	26	44	0,157	
2307 0	015	15	34	35	53	0,149	
2307 0	020	19	34	40	58	0,200	
2307 0	025	25	50,5	50	71,5	0,210	
2307 0	032	31	50,5	55	76,5	0,250	
2307 0	040	37	50,5	60	81,5	0,306	
2307 0	050	49	64	70	91,5	0,541	
2307 0	065	66	91	80	108	0,610	
2307 0	080	81	106	90	118	1,120	
2307 0	100	100	119	100	128		



ORDERING NUMBER							BEND CG
PRODUCT No.	DN	D	D1	R	L	Rd×S	kg
2308 0	010	9	34	26	47	28×1/8"	0,160
2308 0	015	15	34	35	56	34×1/8"	0,180
2308 0	020	19	34	40	55	44×1/6"	0,190
2308 0	025	25	50,5	50	65	52×1/6"	0,225
2308 0	032	31	50,5	55	70	58×1/6"	0,270
2308 0	040	37	50,5	60	75	65×1/6"	0,340
2308 0	050	49	64	70	85	78×1/6"	0,390
2308 0	065	66	91	80	97	95×1/6"	0,740
2308 0	080	81	106	90	110	110×1/4"	1,080
2308 0	100	100	119	100	120	130×1/4"	2,120



ORDERING NUMBER

PRODUCT No. DN

D

D1

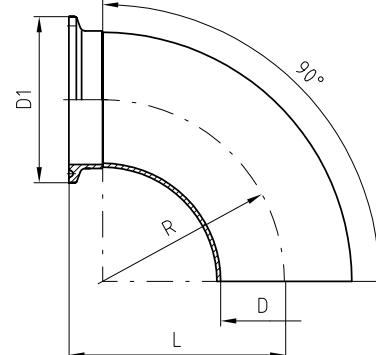
R

L

kg

2309 0	010	9	34	26	44	0,073
2309 0	015	15	34	35	53	0,086
2309 0	020	19	34	40	58	0,120
2309 0	025	25	50,5	50	71,5	0,130
2309 0	032	31	50,5	55	76,5	0,150
2309 0	040	37	50,5	60	81,5	0,200
2309 0	050	49	64	70	91,5	0,246
2309 0	065	66	91	80	108	0,466
2309 0	080	81	106	90	118	0,518
2309 0	100	100	119	100	128	0,545

BEND CS



ORDERING NUMBER

PRODUCT No. DN

D

D1

R

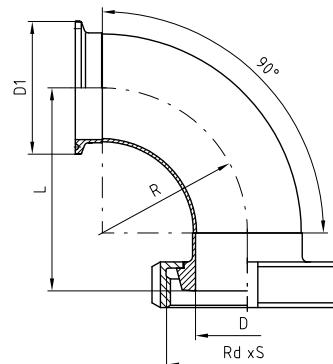
L

Rd x S

kg

2310 0	010	9	34	26	43	28x1/8"	0,151
2310 0	015	15	34	35	52	34x1/8"	0,212
2310 0	020	19	34	40	58	44x1/6"	0,327
2310 0	025	25	50,5	50	72	52x1/6"	0,380
2310 0	032	31	50,5	55	80	58x1/6"	0,445
2310 0	040	37	50,5	60	86	65x1/6"	0,520
2310 0	050	49	64	70	98	78x1/6"	0,700
2310 0	065	66	91	80	112	95x1/6"	1,185
2310 0	080	81	106	90	127	110x1/4"	1,700
2310 0	100	100	119	100	144	130x1/4"	3,020

BEND CK



ORDERING NUMBER

PRODUCT No. DN

D

D2

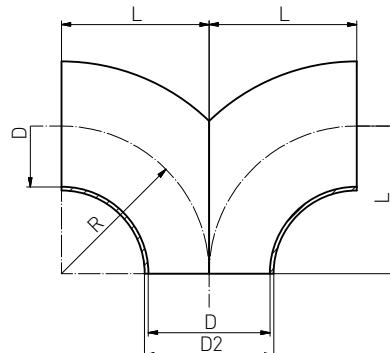
R

L

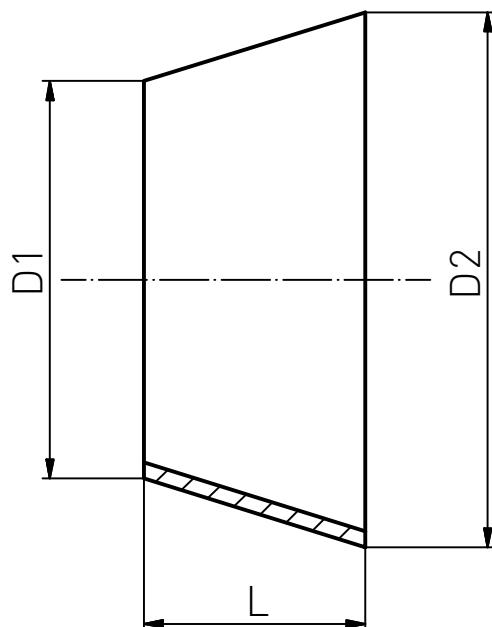
kg

2340 0	010	9	12	26	26	0,030
2340 0	015	15	18	35	35	0,040
2340 0	020	19	22	40	40	0,090
2340 0	025	25	28	50	50	0,110
2340 0	032	31	34	55	55	0,150
2340 0	040	37	40	60	60	0,190
2340 0	050	49	52	70	70	0,300
2340 0	065	66	70	80	80	0,590
2340 0	080	81	85	90	90	0,810
2340 0	100	100	104	100	110	1,150
2340 0	125	125	129	125	130	1,320
2340 0	150	150	154	150	160	1,450

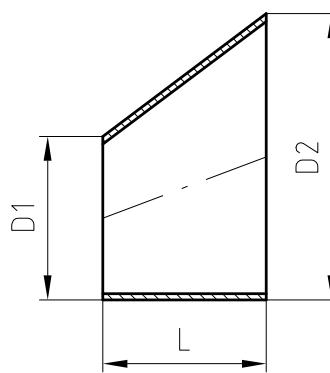
TUBE SPLITTER



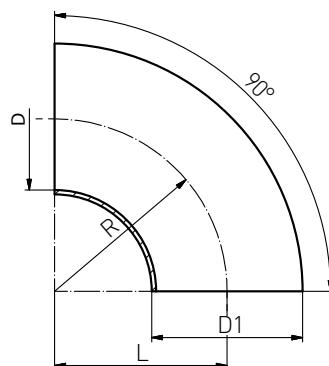
ORDERING NUMBER						TUBE ADAPTOR, CENTRIC
PRODUCT No.	DN	D1	D2	L	kg	
2350 0	010/015	12	18	19,5	0,010	
2350 0	010/020	12	22	19,5	0,012	
2350 0	015/020	18	22	19,5	0,018	
2350 0	015/025	18	28	18	0,017	
2350 0	020/025	22	28	17	0,018	
2350 0	020/032	22	34	18	0,024	
2350 0	025/032	28	34	19,5	0,024	
2350 0	025/040	28	40	19	0,050	
2350 0	032/040	34	40	20,5	0,030	
2350 0	032/050	34	52	26,5	0,040	
2350 0	040/050	40	52	28,5	0,060	
2350 0	040/065	40	70	38	0,114	
2350 0	050/065	52	70	29	0,105	
2350 0	050/080	52	85	48	0,129	
2350 0	065/080	70	85	34,5	0,132	
2350 0	065/100	70	104	46	0,230	
2350 0	080/100	85	104	44	0,200	
2350 0	080/125	85	129	80	0,350	
2350 0	100/125	104	129	45	0,220	
2350 0	100/150	104	154	45	0,324	
2350 0	125/150	129	154	41	0,299	



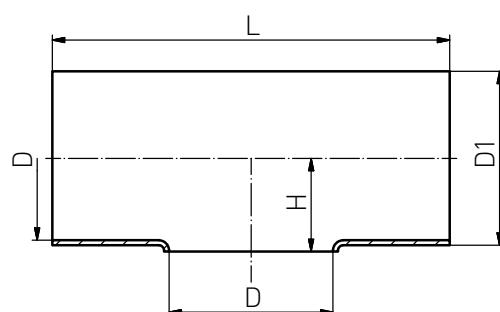
ORDERING NUMBER						TUBE ADAPTOR, EXCENTRIC
PRODUCT No.	DN	D1	D2	L	kg	
2351 0	032/050	34	52	40	0,063	
2351 0	032/065	34	70	50	0,102	
2351 0	040/065	40	70	40	0,087	
2351 0	050/065	52	70	48	0,144	
2351 0	050/080	52	85	70	0,240	
2351 0	050/125	52	129	130	0,609	
2351 0	065/080	70	85	40	0,154	
2351 0	065/125	70	129	110	0,560	



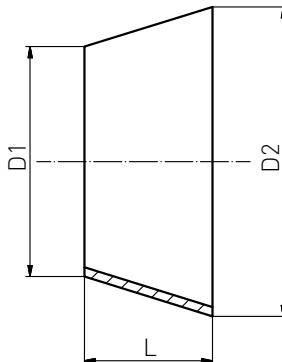
ORDERING NUMBER							BEND SMS
PRODUCT No.	DN	D	D1	R	L	kg	
2302 5	025	22,6	25	37	37	0,041	
2302 5	038	35,6	38	52	52	0,090	
2302 5	051	48,6	51	75	75	0,175	
2302 6	063	60,3	63,5	90	90	0,348	
2302 5	076	72,9	76,1	95	95	0,442	
2302 7	101	97,6	101,6	150	150	1,166	



ORDERING NUMBER							TEE SMS SSS
PRODUCT No.	DN	D	D1	H	L	kg	
2420 5	025	22,6	25	14	110	0,077	
2420 5	038	35,6	38	22	140	0,152	
2420 5	051	48,6	51	29	164	0,240	
2420 5	063	60,3	63,5	35	210	0,506	
2420 5	076	72,9	76,1	41	220	0,633	
2420 5	101	97,6	101,6	55	300	1,443	



ORDERING NUMBER							TUBE ADAPTOR, CENTRIC SMS
PRODUCT No.	DN	D1	D2	L	kg		
2350 5	025/038	25,4	38,1	24,2	0,023		
2350 5	025/051	25,4	50,8	47,6	0,056		
2350 5	038/051	38,1	50,8	24,3	0,033		
2350 5	038/063	38,1	63,5	48,2	0,076		
2350 5	038/076	38,1	76,1	72	0,128		
2350 5	051/063	50,8	63,5	24,5	0,043		
2350 5	051/076	50,8	76,1	23,5	0,055		
2350 5	063/076	63,5	76,1	23,2	0,066		
2350 5	063/101	63,5	101,6	71,3	0,245		
2350 5	076/101	76,1	101,6	45,6	0,169		



ORDERING NUMBER

PRODUCT No. DN

D

H

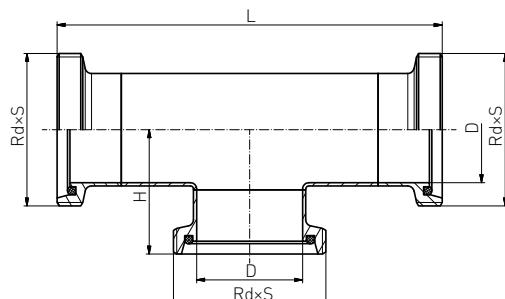
L

Rd×S

kg

2410 0	010	9	28	94	28×1/8"	0,145
2410 0	015	15	31	112	34×1/8"	0,195
2410 0	020	19	37	128	44×1/6"	0,295
2410 0	025	25	45	158	52×1/6"	0,390
2410 0	032	31	51	174	58×1/6"	0,450
2410 0	040	37	55,5	186	65×1/6"	0,595
2410 0	050	49	63,5	210	78×1/6"	0,760
2410 0	065	66	78	240	95×1/6"	1,420
2410 0	080	81	90,5	270	110×1/4"	2,070
2410 0	100	100	109	308	130×1/4"	3,340
2410 0	125	125	113,5	467	160×1/4"	3,800

TEE GGG



ORDERING NUMBER

PRODUCT No. DN

D

D1

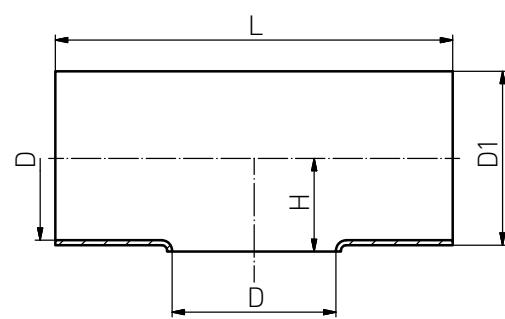
H

L

kg

2420 0	010	9	12	7	52	0,027
2420 0	015	15	18	10	70	0,030
2420 0	020	19	22	13	80	0,035
2420 0	025	25	28	16	100	0,043
2420 0	032	31	34	19	110	0,060
2420 0	040	37	40	22,5	120	0,093
2420 0	050	49	52	28,5	140	0,130
2420 0	065	66	70	38	160	0,410
2420 0	080	81	85	45,5	180	0,570
2420 0	100	100	104	55	200	1,080
2420 0	125	125	129	67,5	375	1,967

TEE SSS



ORDERING NUMBER

PRODUCT No. DN

D

H

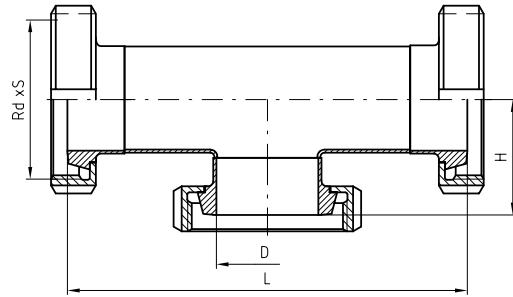
L

Rd×S

kg

2440 0	010	9	24	90	28×1/8"	0,300
2440 0	015	15	27	104	34×1/8"	0,350
2440 0	020	19	31	116	44×1/6"	0,520
2440 0	025	25	38	144	52×1/6"	0,830
2440 0	032	31	44	160	58×1/6"	0,970
2440 0	040	37	48,5	172	65×1/6"	1,150
2440 0	050	49	56,5	196	78×1/6"	1,569
2440 0	065	66	70	224	95×1/6"	2,810
2440 0	080	81	82,5	254	110×1/4"	3,810
2440 0	100	100	99	288	130×1/4"	6,010
2440 0	125	125	101,5	443	160×1/4"	8,400

TEE KKK



ORDERING NUMBER

PRODUCT No. DN

D

D1

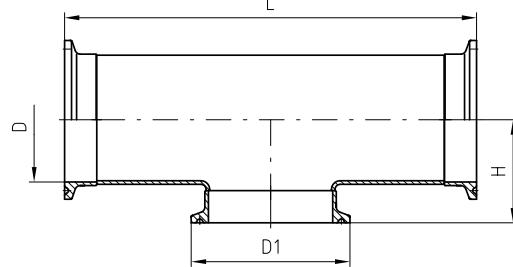
H

L

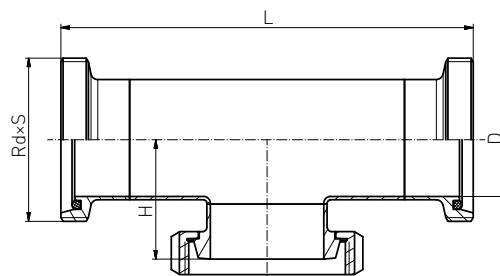
kg

2470 0	010	9	34	25	88	0,245
2470 0	015	15	34	28	106	0,260
2470 0	020	19	34	31	116	0,295
2470 0	025	25	50,5	37,5	143	0,310
2470 0	032	31	50,5	40,5	153	0,323
2470 0	040	37	50,5	44	163	0,390
2470 0	050	49	64	50	183	0,470
2470 0	065	66	91	66	216	0,840
2470 0	080	81	106	73,5	236	1,135
2470 0	100	100	119	83	256	2,155

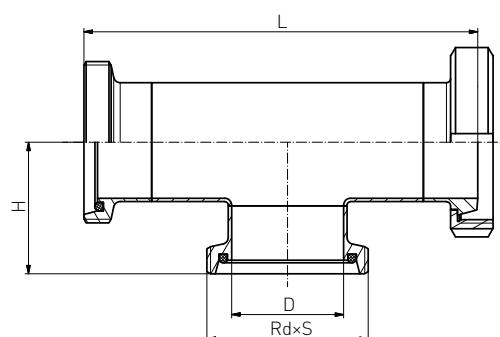
TEE CCC



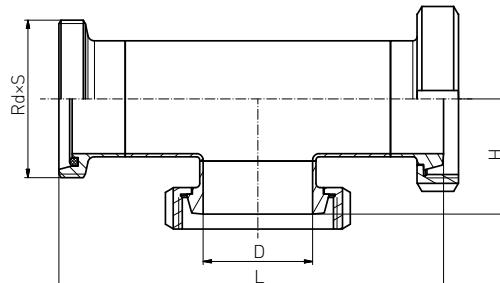
ORDERING NUMBER		TEE GGK				
PRODUCT No.	DN	D	H	L	Rd×S	kg
2411 0	010	9	24	94	28×1/8"	0,200
2411 0	015	15	27	112	34×1/8"	0,250
2411 0	020	19	31	128	44×1/6"	0,390
2411 0	025	25	38	158	52×1/6"	0,530
2411 0	032	31	44	174	58×1/6"	0,625
2411 0	040	37	48,5	186	65×1/6"	0,770
2411 0	050	49	56,5	210	78×1/6"	1,030
2411 0	065	66	70	240	95×1/6"	1,880
2411 0	080	81	82,5	270	110×1/4"	2,700
2411 0	100	100	99	308	130×1/4"	4,020
2411 0	125	125	101,5	467	160×1/4"	4,600



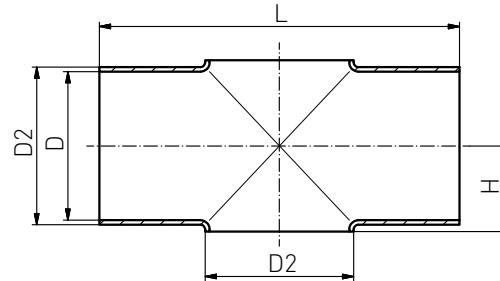
ORDERING NUMBER		TEE GKG				
PRODUCT No.	DN	D	H	L	Rd×S	kg
2412 0	010	9	28	90	28×1/8"	0,200
2412 0	015	15	31	108	34×1/8"	0,250
2412 0	020	19	37	122	44×1/6"	0,390
2412 0	025	25	45	151	52×1/6"	0,530
2412 0	032	31	51	167	58×1/6"	0,625
2412 0	040	37	55,5	179	65×1/6"	0,770
2412 0	050	49	63,5	203	78×1/6"	1,030
2412 0	065	66	78	232	95×1/6"	1,880
2412 0	080	81	90,5	262	110×1/4"	2,700
2412 0	100	100	109	298	130×1/4"	4,020
2412 0	125	125	113,5	455	160×1/4"	4,600



ORDERING NUMBER		TEE GKK				
PRODUCT No.	DN	D	H	L	Rd×S	kg
2413 0	010	9	24	90	28×1/8"	0,250
2413 0	015	15	27	108	34×1/8"	0,280
2413 0	020	19	31	122	44×1/6"	0,410
2413 0	025	25	38	151	52×1/6"	0,680
2413 0	032	31	44	167	58×1/6"	0,780
2413 0	040	37	48,5	179	65×1/6"	0,890
2413 0	050	49	56,5	203	78×1/6"	1,430
2413 0	065	66	70	232	95×1/6"	2,650
2413 0	080	81	82,5	262	110×1/4"	3,400
2413 0	100	100	99	298	130×1/4"	5,600
2413 0	125	125	101,5	455	160×1/4"	6,380



ORDERING NUMBER		TUBE CROSS				
PRODUCT No.	DN	D	D2	H	L	kg
2520 0	015	15	18	10	70	0,025
2520 0	020	19	22	13	80	0,030
2520 0	025	25	28	16	100	0,038
2520 0	032	31	34	19	110	0,058
2520 0	040	37	40	22,5	120	0,086
2520 0	050	49	52	28,5	140	0,100
2520 0	065	66	70	38	160	0,380
2520 0	080	81	85	45,5	180	0,510
2520 0	100	100	104	55	200	0,985
2520 0	125	125	129	67,5	375	1,730



ORDERING NUMBER

PRODUCT No. DN

D

D2

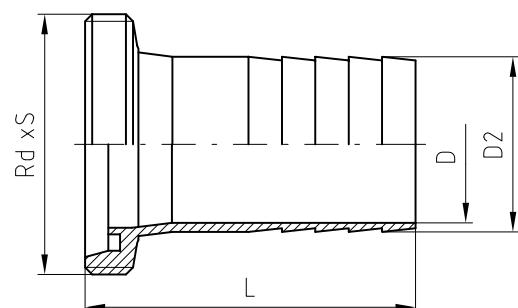
L

Rd×S

kg

HOSE ADAPTOR G

2601 0	010	10	15	45	28×1/8"	0,055
2601 0	015	16	21	50	34×1/8"	0,080
2601 0	020	20,5	25	75	44×1/6"	0,130
2601 0	025	23	27	87	52×1/6"	0,250
2601 0	032	30	34	93	58×1/6"	0,354
2601 0	040	38,5	42,4	108	65×1/6"	0,538
2601 0	050	47	52,5	120	78×1/6"	0,678
2601 0	065	60	68	145	95×1/6"	1,182
2601 0	080	76	83	165	110×1/4"	1,676
2601 0	100	95	102	182	130×1/4"	2,616
2601 0	125	115	128	192	160×1/4"	2,560
2601 0	150	140	154	199	190×1/4"	5,925



ORDERING NUMBER

PRODUCT No. DN

D

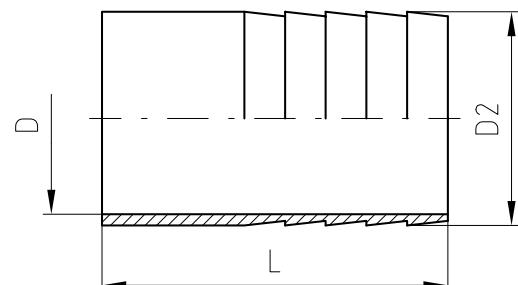
D2

L

kg

HOSE ADAPTOR S

2602 0	010	10	15	31	0,020
2602 0	015	16	21	45	0,040
2602 0	020	20,5	25	51	0,060
2602 0	025	23	27	59	0,060
2602 0	032	30	34	61	0,080
2602 0	040	38,5	42,4	76	0,120
2602 0	050	47	52,5	86	0,220
2602 0	065	60	68	106	0,580
2602 0	080	76	83	121	0,680
2602 0	100	95	102	128	1,720
2602 0	125	115	128	146	
2602 0	150	140	154	149	



ORDERING NUMBER

PRODUCT No. DN

D

D1

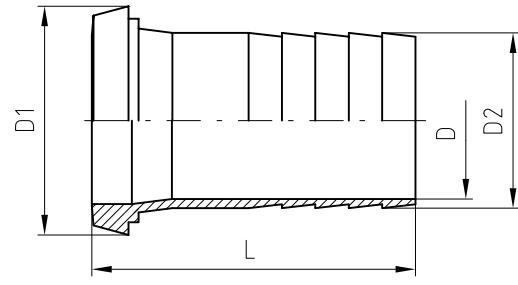
D2

L

kg

HOSE ADAPTOR K

2604 0	010	10	22,5	15	40	0,040
2604 0	015	16	28,5	21	62	0,065
2604 0	020	20,5	36,5	25	68	0,110
2604 0	025	23	44	27	80	0,210
2604 0	032	30	50	34	86	0,290
2604 0	040	38,5	56	42,4	102	0,435
2604 0	050	47	68	52,5	113	0,601
2604 0	065	60	86	68	138	1,120
2604 0	080	76	100	83	156	1,480
2604 0	100	95	121	102	172	1,600
2604 0	125	115	150	128	180	2,275
2604 0	150	140	176	154	186	5,700



ORDERING NUMBER

PRODUCT No. DN

D

D1

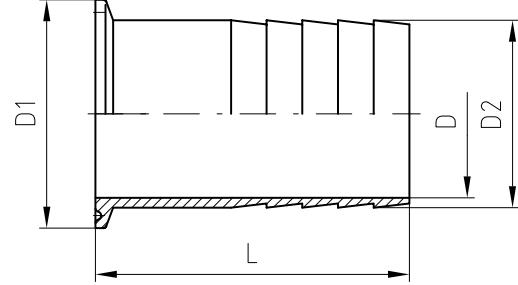
D2

L

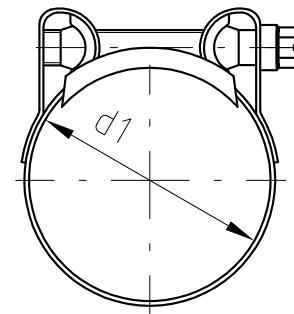
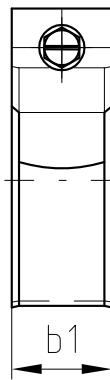
kg

HOSE ADAPTOR C

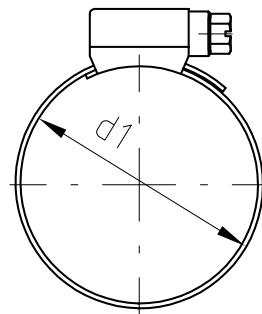
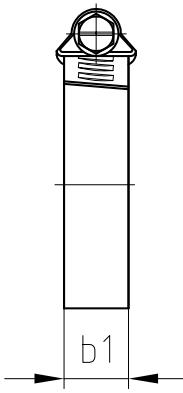
2607 0	010	10	34	15	50	0,050
2607 0	015	16	34	21	60	0,065
2607 0	020	20,5	34	25	72	0,075
2607 0	025	23	50,5	27	80	0,100
2607 0	032	30	50,5	34	90	0,130
2607 0	040	38,5	50,5	42,4	105	0,150
2607 0	050	47	64	52,5	120	0,280
2607 0	065	60	91	68	140	0,655
2607 0	080	76	106	83	160	0,778
2607 0	100	95	119	102	180	1,900
2607 0	125	115	155	128	174	
2607 0	150	140	183	154	177	



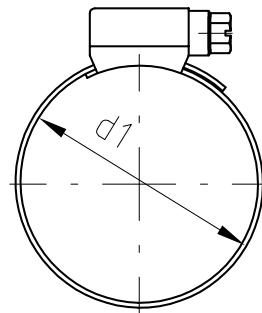
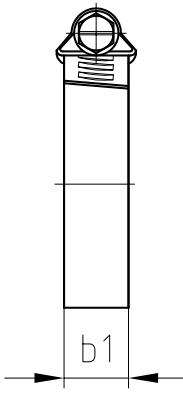
ORDERING NUMBER					HOSE CLAMP, MIKALOR-SUPRA	
PRODUCT No.	DN	d1	b1	PN		kg
2610 0		29–31	20	42		0,048
2610 0		31–34	20	42		0,050
2610 0		34–37	20	40		0,052
2610 0		37–40	20	40		0,056
2610 0		40–43	20	38		0,057
2610 0		43–47	20	38		0,058
2610 0		47–51	20	36		0,061
2610 0		51–55	20	36		0,064
2610 0		55–59	20	34		0,067
2610 0		59–63	20	34		0,070
2610 0		63–68	20	34		0,070
2610 0		68–73	25	28		0,125
2610 0		73–79	25	28		0,126
2610 0		79–85	25	28		0,128
2610 0		85–91	25	20		0,130
2610 0		91–97	25	20		0,140
2610 0		97–104	25	20		0,145
2610 0		104–112	25	12		0,150
2610 0		112–121	25	12		0,155
2610 0		121–130	25	12		0,161



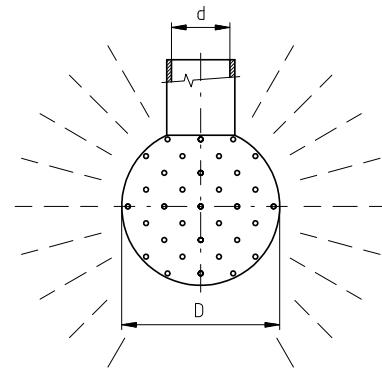
ORDERING NUMBER					HOSE CLAMP, HEAVY TYPE	
PRODUCT No.	DN	d1	b1	PN		kg
2611 0		20–32	13	45		0,018
2611 0		25–40	13	40		0,020
2611 0		32–50	13	35		0,022
2611 0		40–60	13	30		0,025
2611 0		50–70	13	25		0,026
2611 0		60–80	13	20		0,038
2611 0		70–90	13	17		0,040
2611 0		80–100	13	14		0,042
2611 0		90–110	13	12		0,045
2611 0		100–120	13	10		0,048
2611 0		110–130	13	8		0,050
2611 0		120–140	13	7		0,050
2611 0		130–150	13	6		0,060
2611 0		140–160	13	5		0,065



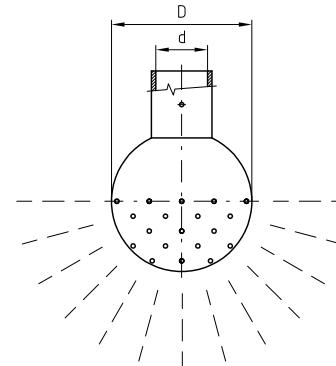
ORDERING NUMBER					HOSE CLAMP, LIGHT TYPE	
PRODUCT No.	DN	d1	b1	PN		kg
2612 0		8–16	9	45		
2612 0		10–16	9	45		
2612 0		12–22	9	45		
2612 0		16–27	9	42		
2612 0		20–32	9	36		
2612 0		25–40	9	31		
2612 0		30–45	9	28		
2612 0		35–50	9	24		
2612 0		40–60	9	19		
2612 0		50–70	9	17		
2612 0		60–80	9	15		
2612 0		70–90	9	13		
2612 0		80–100	9	11		



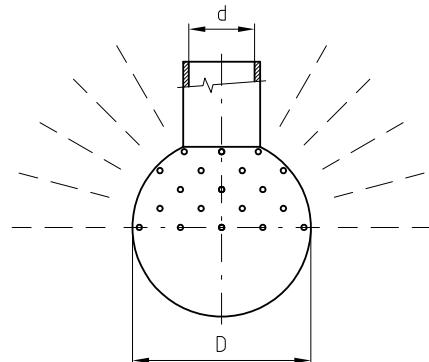
Different size of the connecting dimension **d** after agreement.



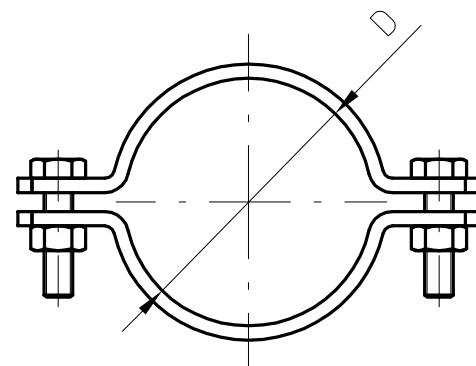
Different size of the connecting dimension **d** after agreement.



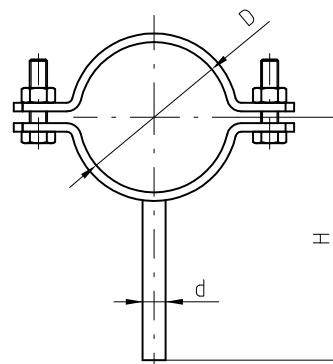
Different size of the connecting dimension **d** after agreement.



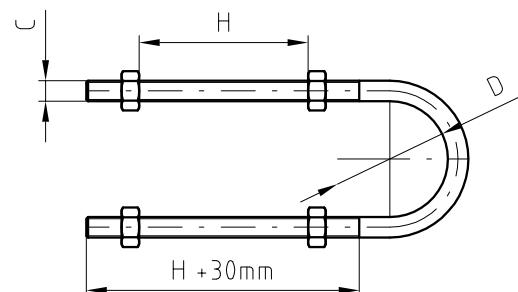
ORDERING NUMBER				SLEEVE
PRODUCT No.	DN	D	kg	
2810 0	010	12	0,047	
2810 0	015	19	0,067	
2810 0	020	20	0,072	
2810 0	025	28	0,075	
2810 0	032	34	0,090	
2810 0	040	40	0,100	
2810 0	050	52	0,110	
2810 0	065	70	0,122	
2810 0	080	85	0,180	
2810 0	100	104	0,220	
2810 0	125	129	0,330	
2810 0	150	154		



ORDERING NUMBER					SLEEVE WITH ROD
PRODUCT No.	DN	D	H	d	kg
2811 0	010	12	68	6	0,060
2811 0	015	19	70	8	0,090
2811 0	020	20	72	8	0,095
2811 0	025	28	72	8	0,095
2811 0	032	34	75	8	0,100
2811 0	040	40	78	8	0,110
2811 0	050	52	84	8	0,125
2811 0	065	70	93	8	0,150
2811 0	080	85	100	10	0,270
2811 0	100	104	110	10	0,300
2811 0	125	129	140	12	0,480
2811 0	150	154	165	12	0,700



ORDERING NUMBER					STIRRUP
PRODUCT No.	DN	D	H	C	
2820 0	010	12	50/80	M6	
2820 0	015	19	50/80	M6	
2820 0	020	20	50/80	M6	
2820 0	025	28	50/80	M6	
2820 0	032	34	50/80	M6	
2820 0	040	40	50/80	M8	
2820 0	050	52	50/80	M8	
2820 0	065	70	50/80	M8	
2820 0	080	85	50/80	M10	
2820 0	100	104	50/80	M10	
2820 0	125	129	50/80	M10	
2820 0	150	154	50/80	M10	



H = maximum height of straight part

3



BUTTERFLY VALVES

3.1	BUTTERFLY VALVES, DIRECT AND 3-WAY	43
3.5	DRIVES FOR BUTTERFLY VALVES AND FOR BALL VALVES	54

DIRECT BUTTERFLY VALVES

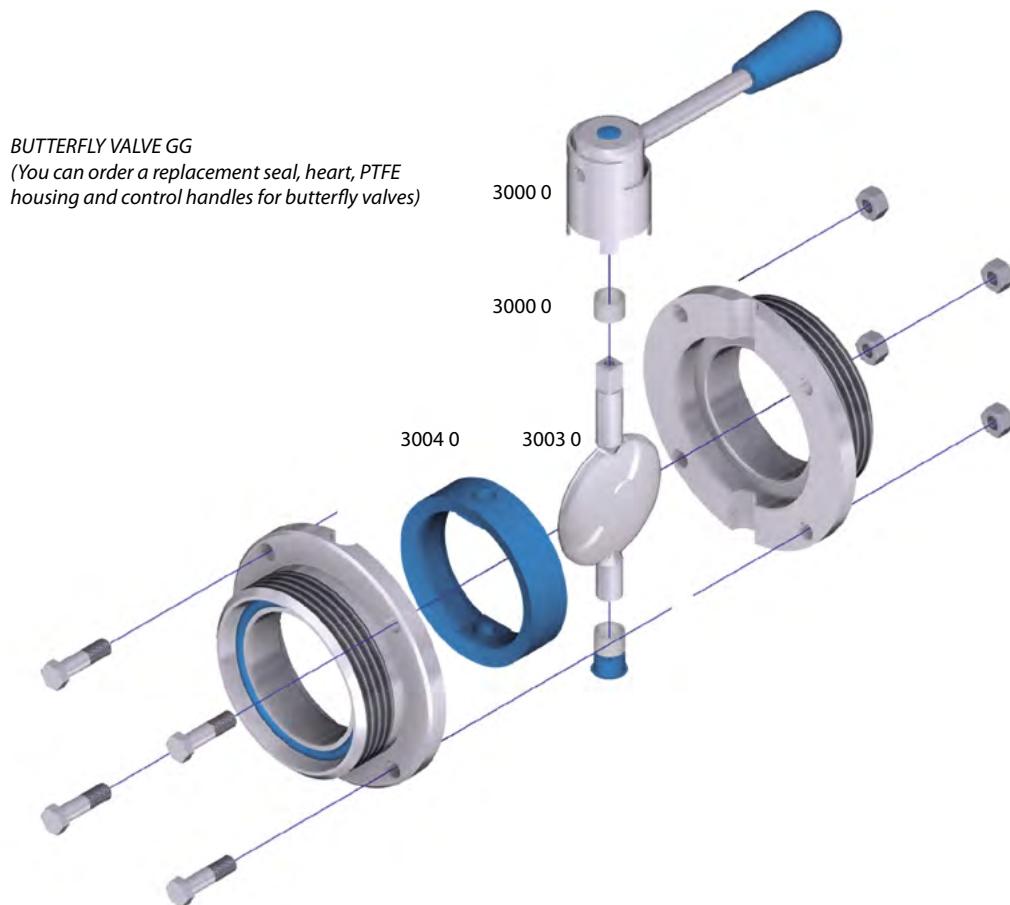
Butterfly valves are used for closing and opening the flow in the tube. When using the manual handle there are three basic positions. Closed, open and half-open.

Closing by regulating screw allows more accurate flow control. Control can be automatic using electric or pneumatic drives, see pg. 52.

Butterfly valve consists of two flanges with welding or threaded ending, liner with nut or by clamp connecting piece, heart and sealing, and handle. Connections can be combined as desired.

Sealing of valves heart has standard material VQM Silicone. According to customer requirements also EPDM and Viton.

We supply butterfly valves in sizes DN25 to DN150.



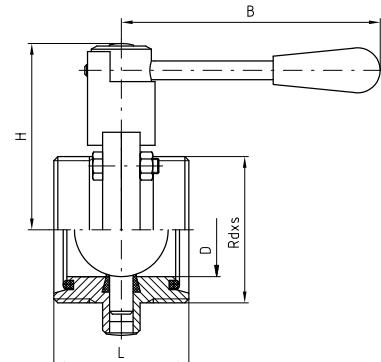
THREE-WAY BUTTERFLY VALVES

Three-way butterfly valves are welded to Tee with a smooth connection. Connections of valves to pipes are the same as with direct valves.

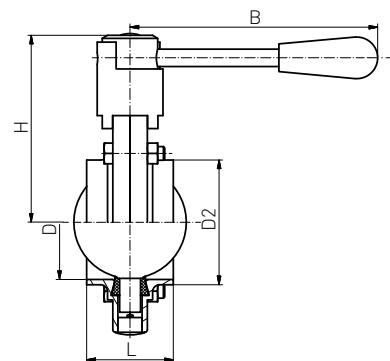
We also supply coupled valves, handles are connected by couplers.

Couplings operates valves hearts both together, when one of the valve is open the other one is closed.

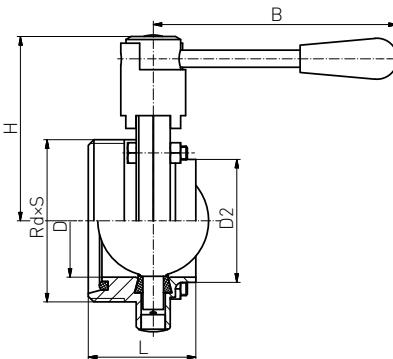
ORDERING NUMBER		BUTTERFLY VALVE GG					
PRODUCT No.	DN	D	H	L	B	Rd×S	kg
3101 0	025	26	88	64	115	52×1/6"	1,550
3101 0	032	32	91	64	115	58×1/6"	1,665
3101 0	040	38	95	72	115	65×1/6"	2,020
3101 0	050	50	101	72	145	78×1/6"	2,955
3101 0	065	66	110	76	145	95×1/6"	3,050
3101 0	080	81	118	100	170	110×1/4"	5,100
3101 0	100	100	127	104	170	130×1/4"	6,260
3101 0	125	125	154	112	230	160×1/4"	10,200
3101 0	150	150	169	124	230	190×1/4"	14,040



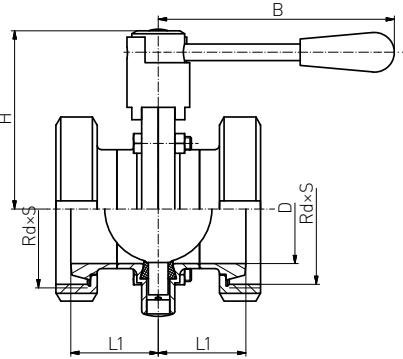
ORDERING NUMBER		BUTTERFLY VALVE SS					
PRODUCT No.	DN	D	D2	H	L	kg	
3102 0	025	26	31	88	40	1,284	
3102 0	032	32	37	91	42	1,350	
3102 0	040	38	43	95	50	1,690	
3102 0	050	50	55	101	50	1,900	
3102 0	065	66	72	110	50	2,320	
3102 0	080	81	87	118	60	4,000	
3102 0	100	100	106	127	64	4,810	
3102 0	125	125	132	154	95	9,170	
3102 0	150	150	157	169	120	11,700	



ORDERING NUMBER		BUTTERFLY VALVE GS						
PRODUCT No.	DN	D	D2	H	L	B	Rd×S	kg
3103 0	025	26	31	88	52	115	52×1/6"	1,420
3103 0	032	32	37	91	53	115	58×1/6"	1,517
3103 0	040	38	43	95	61	115	65×1/6"	1,820
3103 0	050	50	55	101	61	145	78×1/6"	2,680
3103 0	065	66	72	110	63	145	95×1/6"	2,720
3103 0	080	81	87	118	80	170	110×1/4"	4,520
3103 0	100	100	106	127	84	170	130×1/4"	5,620
3103 0	125	125	132	154	103	230	160×1/4"	9,750
3103 0	150	150	157	169	122	230	190×1/4"	13,050



ORDERING NUMBER		BUTTERFLY VALVE KK					
PRODUCT No.	DN	D	H	L1	B	Rd×S	kg
3104 0	025	26	88	39	115	52×1/6"	1,780
3104 0	032	32	91	41	115	58×1/6"	1,933
3104 0	040	38	95	46	115	65×1/6"	2,360
3104 0	050	50	101	48	145	78×1/6"	3,400
3104 0	065	66	110	53	145	95×1/6"	3,990
3104 0	080	81	118	63	170	110×1/4"	6,150
3104 0	100	100	127	72	170	130×1/4"	8,070
3104 0	125	125	154	80	230	160×1/4"	13,520
3104 0	150	150	169	80	230	190×1/4"	18,320



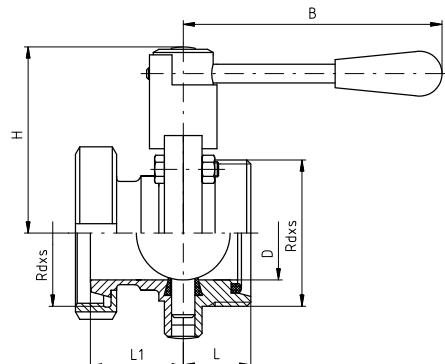
ORDERING NUMBER

PRODUCT No. DN

D H L L1 B Rd×S kg

3105 0	025	26	88	32	39	115	52×1/6"	1,710
3105 0	032	32	91	32	41	115	58×1/6"	1,860
3105 0	040	38	95	36	46	115	65×1/6"	2,210
3105 0	050	50	101	36	48	145	78×1/6"	3,175
3105 0	065	66	110	38	53	145	95×1/6"	3,550
3105 0	080	81	118	50	63	170	110×1/4"	5,600
3105 0	100	100	127	52	72	170	130×1/4"	7,160
3105 0	125	125	154	56	80	230	160×1/4"	12,260
3105 0	150	150	169	62	80	230	190×1/4"	16,360

BUTTERFLY VALVE KG



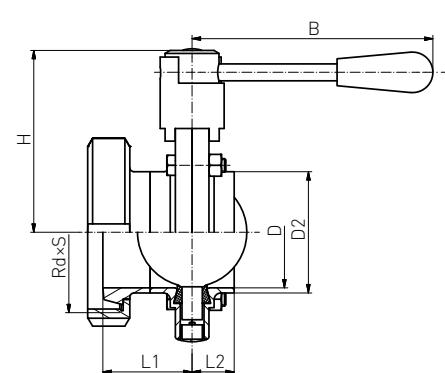
ORDERING NUMBER

PRODUCT No. DN

D H L1 L2 B Rd×S kg

3106 0	025	26	88	39	20	115	52×1/6"	1,545
3106 0	032	32	91	41	21	115	58×1/6"	1,700
3106 0	040	38	95	46	25	115	65×1/6"	1,955
3106 0	050	50	101	48	25	145	78×1/6"	2,870
3106 0	065	66	110	53	25	145	95×1/6"	3,120
3106 0	080	81	118	63	30	170	110×1/4"	5,060
3106 0	100	100	127	72	32	170	130×1/4"	6,420
3106 0	125	125	154	80	47,5	230	160×1/4"	11,346
3106 0	150	150	169	80	60	230	190×1/4"	15,010

BUTTERFLY VALVE KS



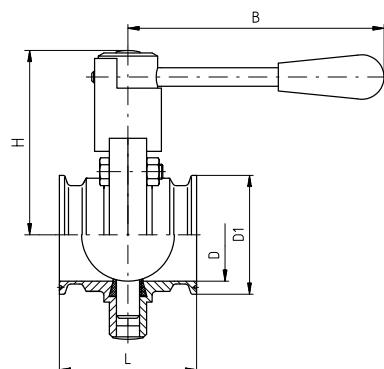
ORDERING NUMBER

PRODUCT No. DN

D D1 H L B kg

3107 0	025	26	50,5	88	60	115	1,406
3107 0	032	32	50,5	91	62	115	1,440
3107 0	040	38	50,5	95	60	115	1,680
3107 0	050	50	64	101	70	145	2,540
3107 0	065	66	91	110	76	145	2,560
3107 0	080	81	106	118	88	170	4,430
3107 0	100	100	119	127	90	170	5,070

BUTTERFLY VALVE CC



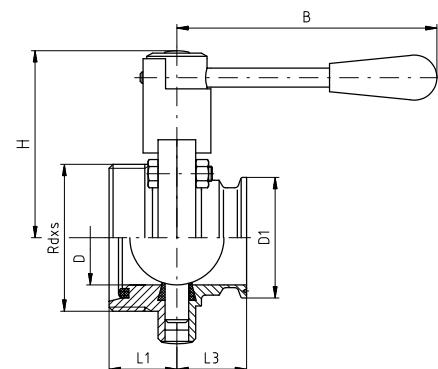
ORDERING NUMBER

PRODUCT No. DN

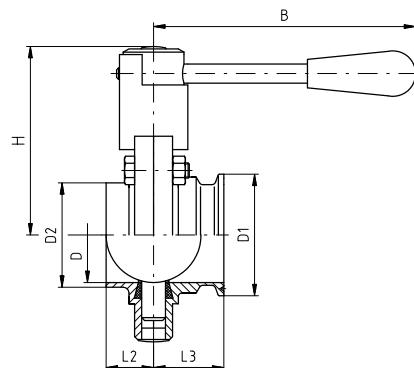
D D1 H L1 L3 Rd×S kg

3108 0	025	26	50,5	88	32	30	52×1/6"	1,470
3108 0	032	32	50,5	91	32	31	58×1/6"	1,555
3108 0	040	38	50,5	95	36	30	65×1/6"	1,860
3108 0	050	50	64	101	36	35	78×1/6"	2,760
3108 0	065	66	91	110	38	38	95×1/6"	2,850
3108 0	080	81	106	118	50	44	110×1/4"	4,750
3108 0	100	100	119	127	52	45	130×1/4"	5,700

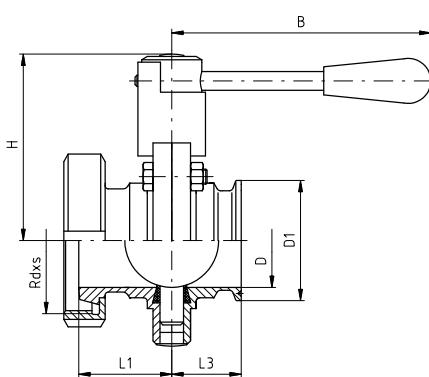
BUTTERFLY VALVE GC



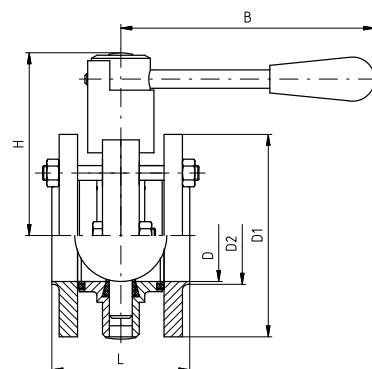
ORDERING NUMBER		BUTTERFLY VALVE SC						
PRODUCT No.	DN	D	D1	H	L2	L3	Rd×S	kg
3109 0	025	26	50,5	88	20	30	52×1/6"	1,330
3109 0	032	32	50,5	91	21	31	58×1/6"	1,420
3109 0	040	38	50,5	95	25	30	65×1/6"	1,645
3109 0	050	50	64	101	25	35	78×1/6"	2,080
3109 0	065	66	91	110	25	38	95×1/6"	2,420
3109 0	080	81	106	118	30	44	110×1/4"	4,210
3109 0	100	100	119	127	32	45	130×1/4"	4,950



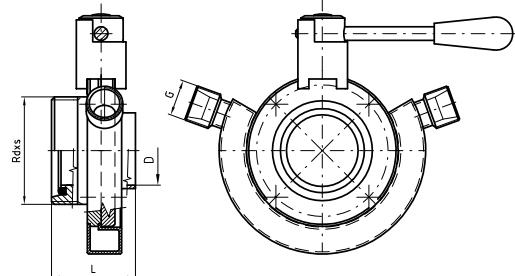
ORDERING NUMBER		BUTTERFLY VALVE KC						
PRODUCT No.	DN	D	D1	H	L1	L3	Rd×S	kg
3110 0	025	26	50,5	88	39	30	52×1/6"	1,620
3110 0	032	32	50,5	91	41	31	58×1/6"	1,715
3110 0	040	38	50,5	95	46	30	65×1/6"	2,000
3110 0	050	50	64	101	48	35	78×1/6"	2,955
3110 0	065	66	91	110	53	38	95×1/6"	3,260
3110 0	080	81	106	118	63	44	110×1/4"	5,300
3110 0	100	100	119	127	72	45	130×1/4"	6,560



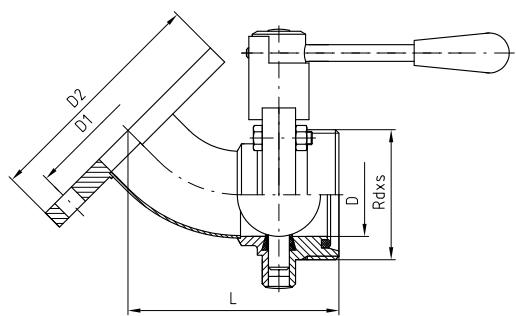
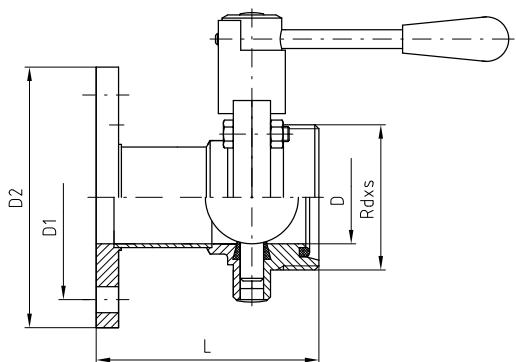
ORDERING NUMBER		BUTTERFLY VALVE WITH FLANGES						
PRODUCT No.	DN	D	D1	D2	H	L	B	kg
3122 0	025	26	87	29	88	65	115	2,120
3122 0	032	32	92	35	91	66	115	2,350
3122 0	040	38	97	41	95	73	115	2,550
3122 0	050	50	110	53	101	73	145	3,000
3122 0	065	66	127	70	110	73	145	3,700
3122 0	080	81	142	85	118	83	170	5,700
3122 0	100	100	162	104	127	87	170	6,900
3122 0	125	125	200	129	154	90	230	11,70



ORDERING NUMBER		BUTTERFLY VALVE, HEATED						
PRODUCT No.	DN	D	L	G	Rd×S			
3113 0	025	26	52		1/2"	52×1/6"		
3113 0	032	32	53		1/2"	58×1/6"		
3113 0	040	38	61		1/2"	65×1/6"		
3113 0	050	50	61		3/4"	78×1/6"		
3113 0	065	66	63		3/4"	95×1/6"		
3113 0	080	81	80		3/4"	110×1/4"		
3113 0	100	100	84		3/4"	130×1/4"		

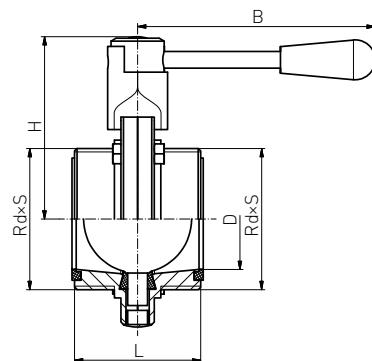


Dimensions and connection type need to be agreed.

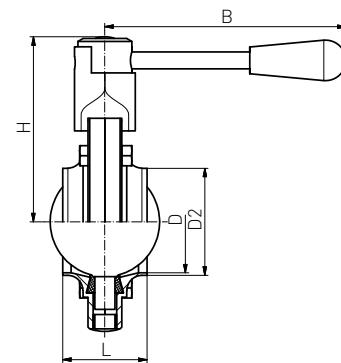


ORDERING NUMBER**PRODUCT No.** **DN****D** **H** **L** **B** **Rd×S** **kg**

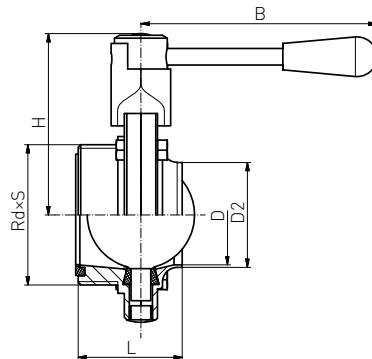
3101 5	25	22	88	64	115	40×1/6"	1,499
3101 5	38	35	95	72	115	60×1/6"	2,057
3101 5	51	48	101	72	145	70×1/6"	2,35
3101 5	63	60,5	110	76	145	85×1/6"	2,929
3101 5	76	72	118	100	170	98×1/6"	5,225

BUTTERFLY VALVE GG, SMS**ORDERING NUMBER****PRODUCT No.** **DN****D** **D2** **H** **L** **B** **kg**

3102 5	25	22	25	88	40	115	1,285
3102 5	38	35	38	95	50	115	1,462
3102 5	51	48	51	101	50	145	1,706
3102 5	63	60,5	63,5	110	50	145	2,015
3102 5	76	72	76	118	60	170	3,849

BUTTERFLY VALVE SS, SMS**ORDERING NUMBER****PRODUCT No.** **DN****D** **D2** **H** **L** **B** **Rd×S** **kg**

3103 5	25	22	25	88	52	115	40×1/6"	1,392
3103 5	38	35	38	95	61	115	60×1/6"	1,759
3103 5	51	48	51	101	61	145	70×1/6"	2,028
3103 5	63	60,5	63,5	110	63	145	85×1/6"	2,472
3103 5	76	72	76	118	80	170	98×1/6"	4,537

BUTTERFLY VALVE GS, SMS

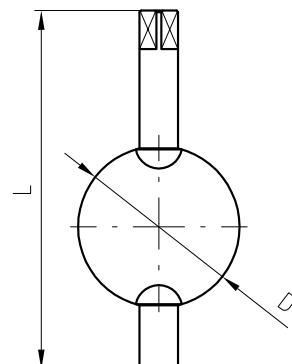
ORDERING NUMBER		MANUAL HANDLE WITH LOCK
PRODUCT No.	DN	
3201 0	025	
3201 0	032	
3201 0	040	
3201 0	050	
3201 0	065	
3201 0	080	
3201 0	100	
3201 0	125	
3201 0	150	

For all types of butterfly valves.

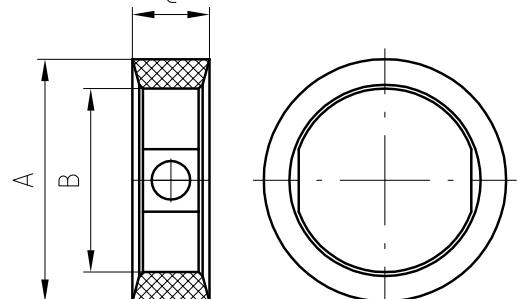
ORDERING NUMBER			MANUAL HANDLE WITH REGULATING SCREW
PRODUCT No.	DN	D	
3212 0	025	26	
3212 0	032	32	
3212 0	040	38	
3212 0	050	50	
3212 0	065	66	
3212 0	080	81	
3212 0	100	100	
3212 0	125	125	
3212 0	150	150	

For all types of butterfly valves.

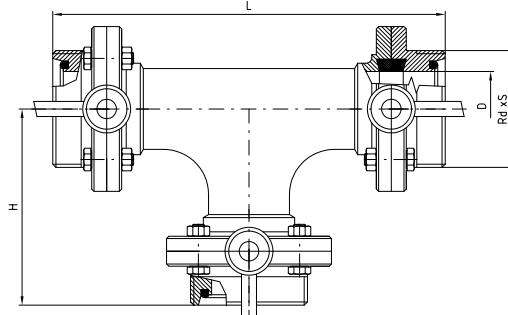
ORDERING NUMBER					VALVE'S HEART
PRODUCT No.	DN	D	L	kg	
3003 0	025	26	81	0,060	
3003 0	032	32	87	0,080	
3003 0	040	38	95	0,100	
3003 0	050	50	112	0,160	
3003 0	065	66	129	0,240	
3003 0	080	81	145	0,390	
3003 0	100	100	165	0,630	
3003 0	125	125	214	1,230	
3003 0	150	150	245	1,636	



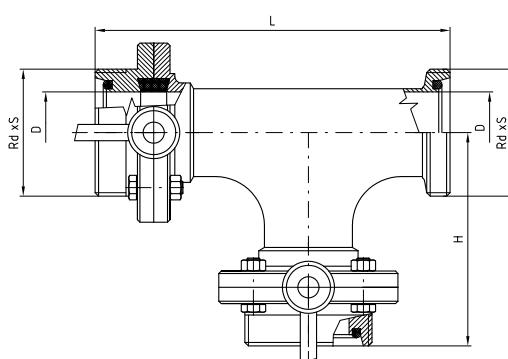
ORDERING NUMBER						SEALING OF THE VALVE'S HEART
PRODUCT No.	DN	A	B	C	kg	
3004 0	025	40	26	20	0,015	
3004 0	032	48	32	20	0,020	
3004 0	040	54	38	21	0,025	
3004 0	050	66	50	21	0,035	
3004 0	065	84	66	22	0,055	
3004 0	080	100	81	24	0,080	
3004 0	100	115	100	26,5	0,070	
3004 0	125	150	125	30	0,190	
3004 0	150	175	150	30	0,215	



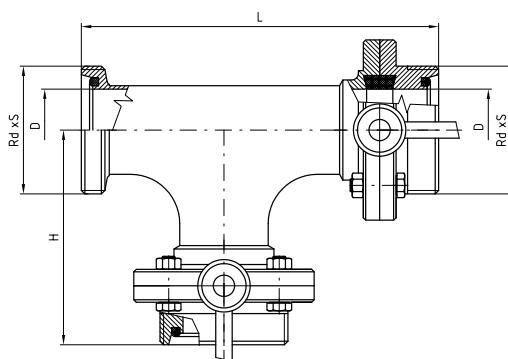
ORDERING NUMBER		3-WAY BUTTERFLY VALVE A				
PRODUCT No.	DN	D	H	L	Rd×S	kg
3301 0	025	26	90	180	52×1/6"	4,305
3301 0	032	32	95	190	58×1/6"	4,700
3301 0	040	38	111	222	65×1/6"	5,630
3301 0	050	50	122	244	78×1/6"	8,010
3301 0	065	66	136	272	95×1/6"	8,860
3301 0	080	81	160	320	110×1/4"	14,340
3301 0	100	100	174	348	130×1/4"	18,660
3301 0	125	125	190	380	160×1/4"	31,350
3301 0	150	150	210	420	190×1/4"	41,500



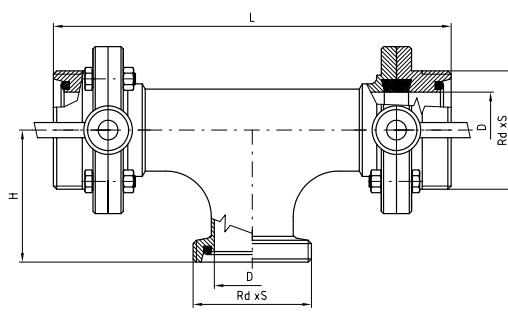
ORDERING NUMBER		3-WAY BUTTERFLY VALVE B				
PRODUCT No.	DN	D	H	L	Rd×S	kg
3302 0	025	26	90	142	52×1/6"	3,020
3302 0	032	32	95	151	58×1/6"	3,040
3302 0	040	38	111	175	65×1/6"	3,650
3302 0	050	50	122	196	78×1/6"	6,100
3302 0	065	66	136	225	95×1/6"	6,350
3302 0	080	81	160	260	110×1/4"	10,400
3302 0	100	100	174	283	130×1/4"	13,780
3302 0	125	125	190	320	160×1/4"	22,700
3302 0	150	150	210	360	190×1/4"	31,400



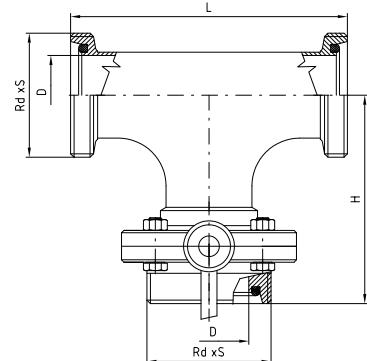
ORDERING NUMBER		3-WAY BUTTERFLY VALVE C				
PRODUCT No.	DN	D	H	L	Rd×S	kg
3303 0	025	26	90	142	52×1/6"	3,020
3303 0	032	32	95	151	58×1/6"	3,040
3303 0	040	38	111	175	65×1/6"	3,650
3303 0	050	50	122	196	78×1/6"	6,100
3303 0	065	66	136	225	95×1/6"	6,350
3303 0	080	81	160	260	110×1/4"	10,400
3303 0	100	100	174	283	130×1/4"	13,700
3303 0	125	125	190	320	160×1/4"	22,700
3303 0	150	150	210	360	190×1/4"	31,400



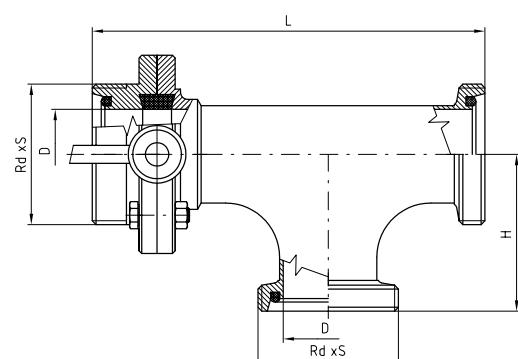
ORDERING NUMBER		3-WAY BUTTERFLY VALVE D				
PRODUCT No.	DN	D	H	L	Rd×S	kg
3304 0	025	26	51	180	52×1/6"	3,020
3304 0	032	32	56	190	58×1/6"	3,040
3304 0	040	38	64	222	65×1/6"	3,650
3304 0	050	50	74	244	78×1/6"	6,100
3304 0	065	66	89	272	95×1/6"	6,350
3304 0	080	81	100	320	110×1/4"	10,400
3304 0	100	100	109	348	130×1/4"	13,700
3304 0	125	125	150	380	160×1/4"	22,700
3304 0	150	150	170	420	190×1/4"	31,400



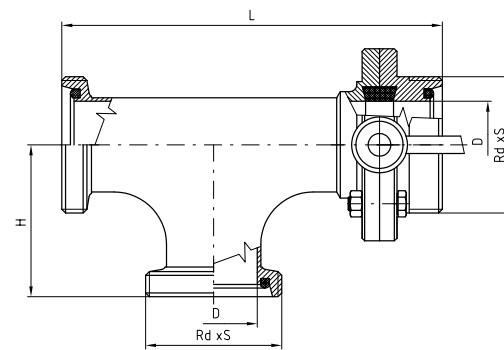
ORDERING NUMBER							3-WAY BUTTERFLY VALVE E
PRODUCT No.	DN	D	H	L	Rd×S	kg	
3305 0	025	26	90	102	52×1/6"	1,740	
3305 0	032	32	95	112	58×1/6"	1,820	
3305 0	040	38	111	128	65×1/6"	2,360	
3305 0	050	50	122	148	78×1/6"	4,420	
3305 0	065	66	136	178	95×1/6"	5,270	
3305 0	080	81	160	200	110×1/4"	6,450	
3305 0	100	100	174	218	130×1/4"	8,900	
3305 0	125	125	190	300	160×1/4"	14,050	
3305 0	150	150	210	320	190×1/4"	19,150	



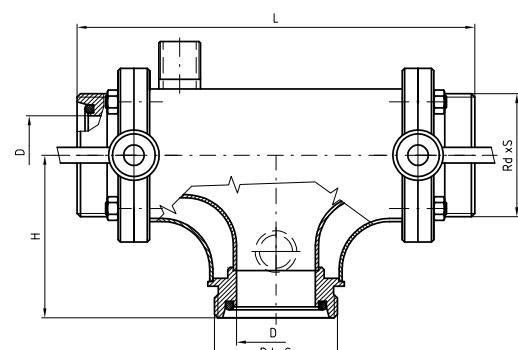
ORDERING NUMBER							3-WAY BUTTERFLY VALVE F
PRODUCT No.	DN	D	H	L	Rd×S	kg	
3306 0	025	26	51	142	52×1/6"	1,740	
3306 0	032	32	56	151	58×1/6"	1,820	
3306 0	040	38	64	175	65×1/6"	2,360	
3306 0	050	50	74	196	78×1/6"	4,420	
3306 0	065	66	89	225	95×1/6"	5,270	
3306 0	080	81	100	260	110×1/4"	6,450	
3306 0	100	100	109	283	130×1/4"	8,900	
3306 0	125	125	150	320	160×1/4"	14,050	
3306 0	150	150	170	360	190×1/4"	19,150	



ORDERING NUMBER							3-WAY BUTTERFLY VALVE H
PRODUCT No.	DN	D	H	L	Rd×S	kg	
3307 0	025	26	51	142	52×1/6"	1,740	
3307 0	032	32	56	151	58×1/6"	1,820	
3307 0	040	38	64	175	65×1/6"	2,360	
3307 0	050	50	74	196	78×1/6"	4,420	
3307 0	065	66	89	225	95×1/6"	5,270	
3307 0	080	81	100	260	110×1/4"	6,450	
3307 0	100	100	109	283	130×1/4"	8,900	
3307 0	125	125	150	320	160×1/4"	14,050	
3307 0	150	150	170	360	190×1/4"	19,150	

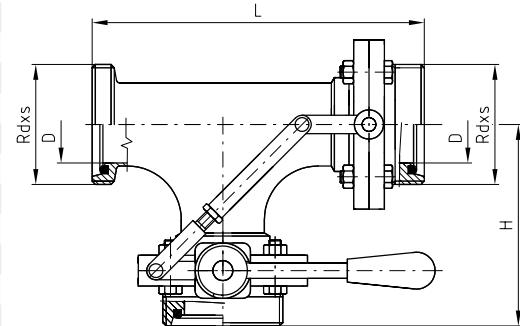


ORDERING NUMBER							3-WAY BUTTERFLY VALVE, HEATED
PRODUCT No.	DN	D	H	L	Rd×S		
3314 0	025	26	73	203	52×1/6"		
3314 0	032	32	87	222	58×1/6"		
3314 0	040	38	87	240	65×1/6"		
3314 0	050	50	103	274	78×1/6"		
3314 0	065	66	114	304	95×1/6"		
3314 0	080	81	120	340	110×1/4"		
3314 0	100						
3314 0	125						
3314 0	150						

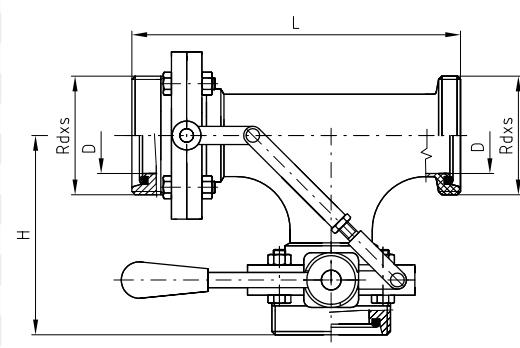


Dimensions and connection type need to be agreed.

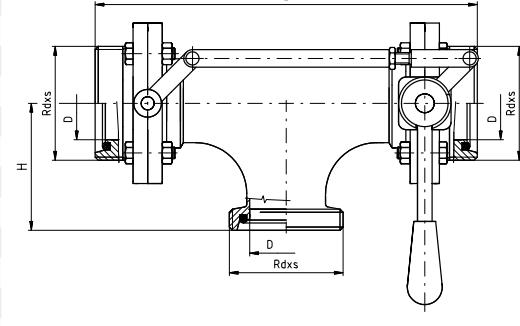
ORDERING NUMBER		3-WAY BUTTERFLY VALVE S, COUPLED				
PRODUCT No.	DN	D	H	L	Rd×S	kg
3401 0	025	26	90	142	52×1/6"	3,030
3401 0	032	32	95	151	58×1/6"	3,055
3401 0	040	38	111	175	65×1/6"	3,780
3401 0	050	50	122	196	78×1/6"	6,140
3401 0	065	66	136	225	95×1/6"	6,400
3401 0	080	81	160	260	110×1/4"	10,460
3401 0	100	100	174	283	130×1/4"	13,780
3401 0	125	125	190	320	160×1/4"	22,800
3401 0	150	150	210	360	190×1/4"	31,600



ORDERING NUMBER		3-WAY BUTTERFLY VALVE P, COUPLED				
PRODUCT No.	DN	D	H	L	Rd×S	kg
3402 0	025	26	90	142	52×1/6"	3,030
3402 0	032	32	95	151	58×1/6"	3,055
3402 0	040	38	111	175	65×1/6"	3,780
3402 0	050	50	122	196	78×1/6"	6,140
3402 0	065	66	136	225	95×1/6"	6,400
3402 0	080	81	160	260	110×1/4"	10,460
3402 0	100	100	174	283	130×1/4"	13,780
3402 0	125	125	190	320	160×1/4"	22,800
3402 0	150	150	210	360	190×1/4"	31,600



ORDERING NUMBER		3-WAY BUTTERFLY VALVE R, COUPLED				
PRODUCT No.	DN	D	H	L	Rd×S	kg
3403 0	025	26	51	180	52×1/6"	3,030
3403 0	032	32	56	190	58×1/6"	3,055
3403 0	040	38	64	222	65×1/6"	3,780
3403 0	050	50	74	244	78×1/6"	6,140
3403 0	065	66	89	272	95×1/6"	6,400
3403 0	080	81	100	320	110×1/4"	10,460
3403 0	100	100	109	348	130×1/4"	13,780
3403 0	125	125	150	380	160×1/4"	22,800
3403 0	150	150	170	420	190×1/4"	31,600



PNEUMATIC DRIVES FOR BUTTERFLY AND BALL VALVES

Pneumatic drives are available in two basic variants

- Double-acting – (air/air) to which can be supplied a control valve which uses electromagnet to control the opening and closing valve.
- Single Action – (air/spring) that thanks to its design offers safety function when the pressure drops or shutting off the source the valve is automatically closed.

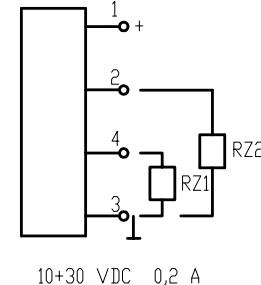
The normal working pressure is 5.5 bar with the possibility to supply drives working in pressure up to 8 bar. Connection to air supply is standard tube 6 x 4 mm.

Pneumatic drives are supplied as standard with a control voltage signal and electromagnet 24V / DC and connecting wire with a length of 2000 mm. Other values and the length of the connecting wires must be agreed before ordering.

The drive can be added to the signal unit, enables to signal actual position of the valves heart, together with access to the remote control system. The display unit is signaled by lighting or pin on control unit, when the pin indicates the position of the valves heart.

axial distance	2 mm
working distance	0 ... 1 mm
power voltage	10–30 V, type 24 V DC
idle current	max. 5 mA at 24 V
switching current	type 140 mA
voltage drop	max. 2 V at 100 mA
switching frequency	1 kHz
coverage	IP 67
short-circuit resistance	yes

ISH connection scheme



10+30 VDC 0,2 A

ELECTRIC DRIVES FOR BUTTERFLY AND BALL VALVES

Electric drives uses electric engine which through conversions closes valves heart. An electric current cutt off can be managed by manual control. This type of closure is possible to use as a regulation control.

Electric drives are delivered according to the required sizes of valves in three sizes. The drives can be ordered along with positions signaling unit with a connection to automated systems. The standard time required for the closing or opening itself is about 60 to 150 seconds. This type of drive can be used also as a regulation control. For further use is possible to install a drive with quick closing time for about 15 seconds.

Electric drive are especially used in places where there is no obstacle to their longer running time, it is also there where are no other alternatives.

Electric drives are characterized by simple using, low maintenance, very low failure rate.

SPECIAL ELECTRIC DRIVES

They are equipped with a return spring, which in case of power failure returns controled devices to default position. Please specify when ordering.

Type	Power Supply (U)	Wattage (W)	Torque (Nm)	Cover Degree/Protection
SF24A	24V AC,DC	5,0	20/20 spring	IP54 / III. grade
SF230A	220V, AC 50 Hz	6,5	20/20 spring	IP54 / II. grade
Period of rotation 90 °		75 sec. / 20 sec. spring		

For butterfly valves and ball valves of larger diameters are technically suitable to use coupled electric drives both mechanically and electrically. These connections are characterized by a high ratio of performance to power.

variants of inductive sensors of positions



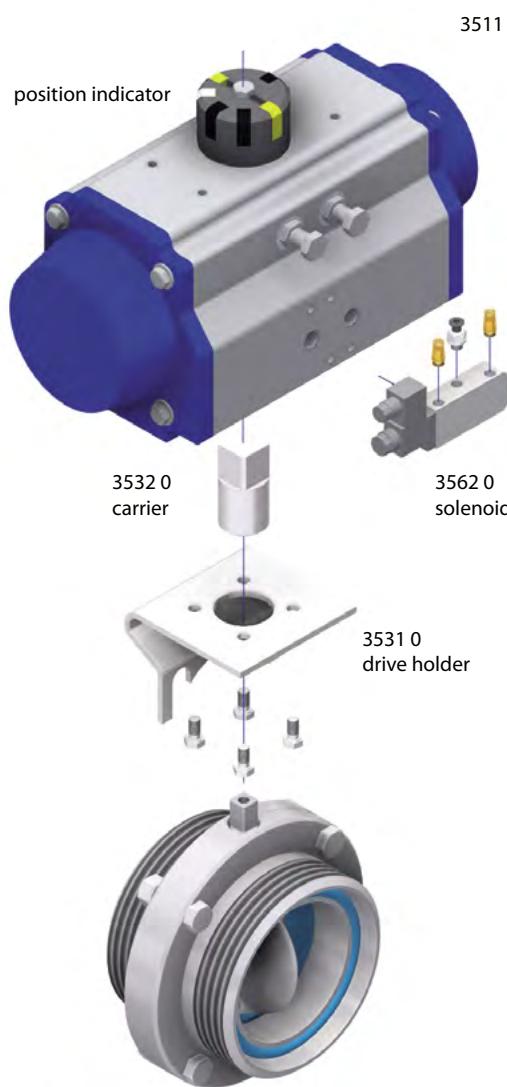
3552 0
inductive sensor one position

3554 0
holder of inductive sensors

3551 0
inductive sensor of two positions type A

3552 0
inductive sensor of two positions type B

3555 0
inductive sensor connector



3511 0

position indicator

3532 0
carrier

3562 0
solenoid valve, equipped

3531 0
drive holder

3550 0
inductive sensor connector

3552 0
inductive sensor one position



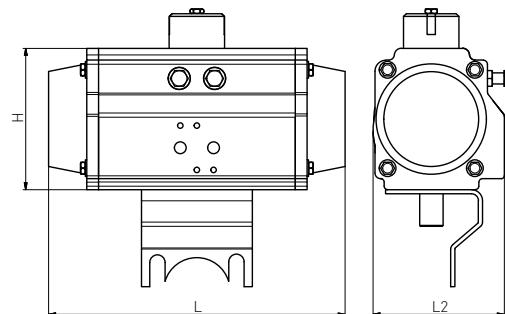
3512 0



Mounting scheme of butterfly valve GG with pneumatic drive and optional accessories.

Mounting scheme of butterfly valve GG with stainless steel pneumatic drive and optional accessories.

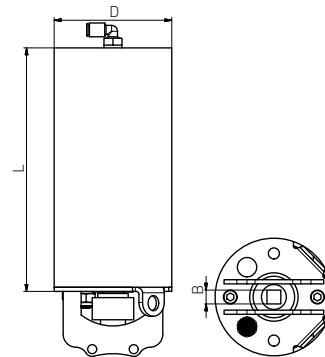
ORDERING NUMBER							PNEUMATIC DRIVE
PRODUCT No.	TYPE	H	L	L2	SPRING START	SPRING END	AIR/AIR
3501	AT051	69	140,5	70,5	14,2 Nm	12,4 Nm	18,3 Nm
3501	AT101	85	158,5	83	25,6 Nm	22,1 Nm	32,2 Nm
3501	AT201	102	210,5	94,5	44,1 Nm	32,8 Nm	64,0 Nm
3501	AT251	115	247,5	106,3	64,0 Nm	42,9 Nm	101 Nm
3501	AT301	127	268,5	123	101 Nm	75,3 Nm	146 Nm
3501	AT351	145	315	141	146 Nm	92,3 Nm	236 Nm



For butterfly valves from DN025 to DN150 and ball valves from DN025 to DN100.

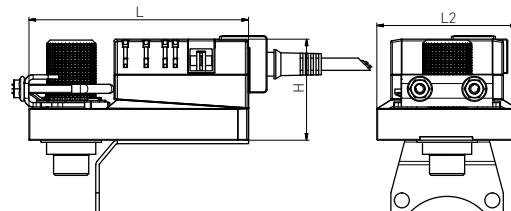
ORDERING NUMBER					PNEUMATIC DRIVE, STAINLESS		
PRODUCT No.	DN	D	L	B			
3501V	025	85	174	9,5			
3501V	032	85	174	9,5			
3501V	040	85	174	9,5			
3501V	050	85	174	9,5			
3501V	065	85	174	9,5			

WORKING PRESSURE [bar]: 5–9
OPERATING TEMPERATURE [° C]: 10–140
MAXIMUM Mk [Nm]: 20



Options of another type need to be agreed.

ORDERING NUMBER					ELECTRIC DRIVE		
PRODUCT No.	DN	H	L	L2			
3502	025	80	160	80			
3502	032	80	160	80			
3502	040	100	230	125			
3502	050	100	230	125			
3502	065	100	230	125			
3502	080	105	260	115			
3502	100	105	260	115			
3502	125	120	280	125			
3502	150	120	280	125			



Options of another type and connection need to be agreed.

4



ball valves

BALL VALVES

4.1

BALL VALVES

57

DIRECT AND 3-WAY BALL VALVES

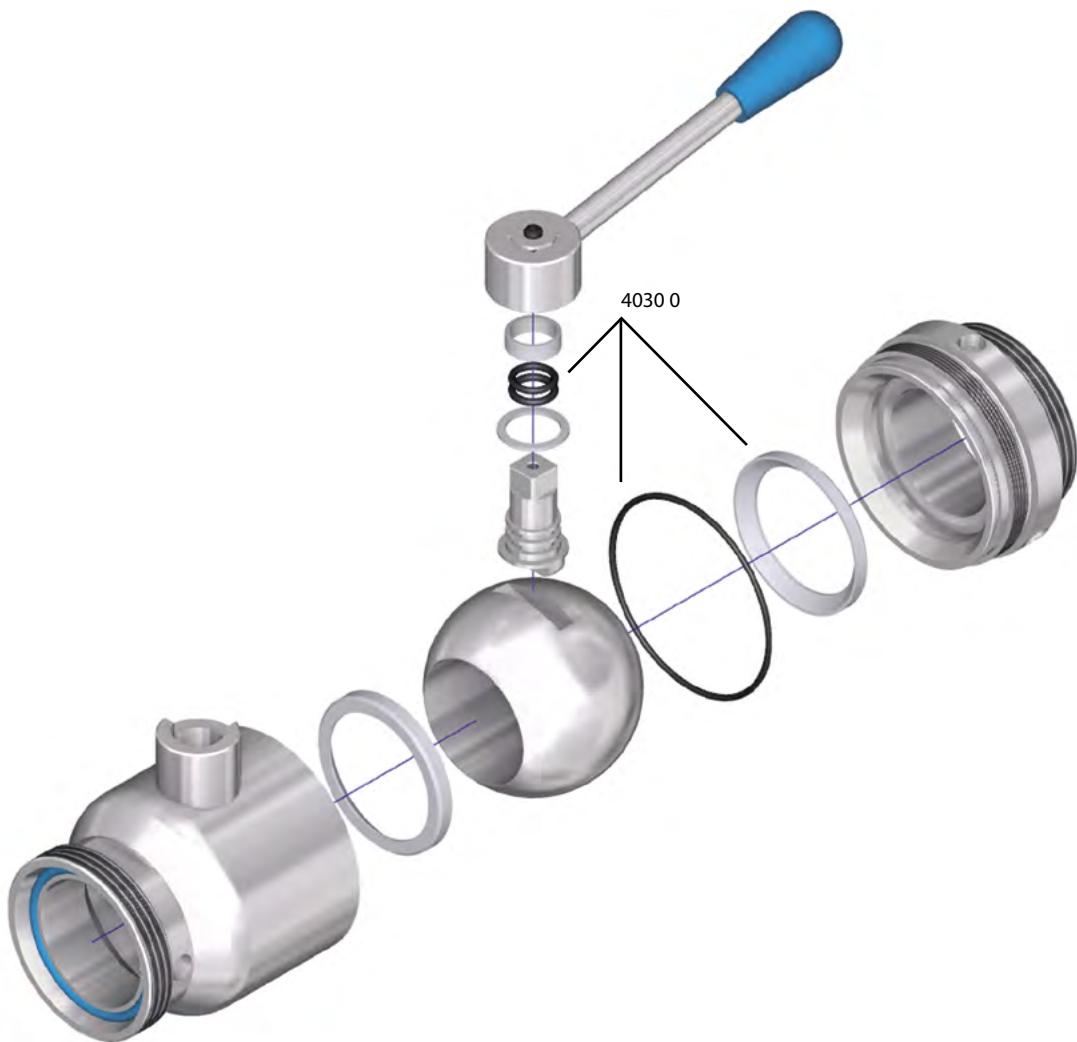
Ball valves are suitable for controlling the fluid flow in the tube system. Nothing stays in the way of liquid flow when the valve is open.

Because of teflon sealing ball valve can withstand a constant temperature of the medium up to 150 °C.

Ball valve consists of the body and the lid, which have welded or threaded ending, liner with nut or clamp, ball, Teflon sealing and control handle. Endings can be combined as desired.

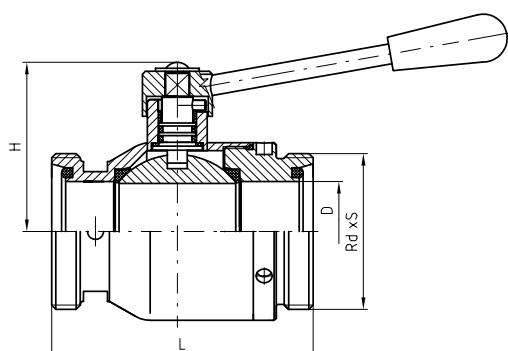
Operation can be automated by electric or pneumatic drive, see pg. 52.

We supply ball valves in sizes from DN10 to DN100.

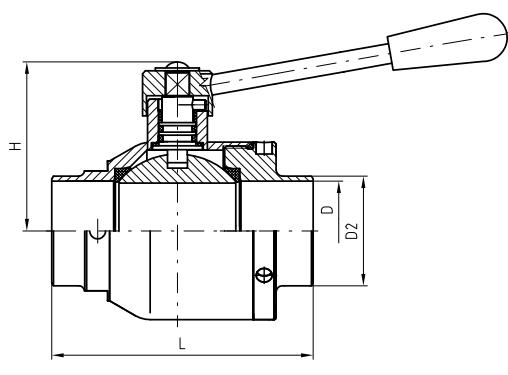


BALL VALVE GG 4101 0
(possibility of ordering a replacement gasket sets 4030 0)

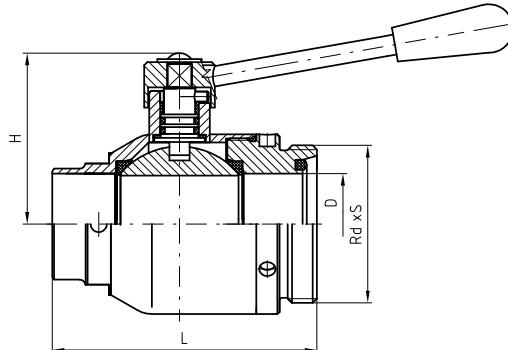
ORDERING NUMBER		BALL VALVE GG				
PRODUCT No.	DN	D	H	L	Rd×S	kg
4101 0	010	10	45	76	28×1/8"	0,650
4101 0	015	16	45	77	34×1/8"	0,650
4101 0	020	20	50	92	44×1/6"	0,940
4101 0	025	26	55	100	52×1/6"	1,000
4101 0	032	32	65	112	58×1/6"	1,590
4101 0	040	38	77	128	65×1/6"	2,500
4101 0	050	50	79	131	78×1/6"	3,352
4101 0	065	66	105	166	95×1/6"	5,600
4101 0	080	81	115	182	110×1/4"	8,400
4101 0	100					
4101 0	125					
4101 0	150					



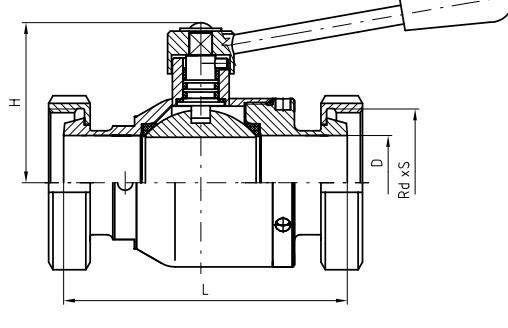
ORDERING NUMBER		BALL VALVE SS				
PRODUCT No.	DN	D	D2	H	L	kg
4102 0	010	10	15	45	76	0,560
4102 0	015	16	21	45	77	0,560
4102 0	020	20	25	50	92	0,560
4102 0	025	26	31	55	100	0,750
4102 0	032	32	37	65	112	1,280
4102 0	040	38	42	77	128	2,150
4102 0	050	50	55	79	131	2,800
4102 0	065	66	72	105	166	4,970
4102 0	080	81	84	115	197	7,250
4102 0	100					
4102 0	125					
4102 0	150					



ORDERING NUMBER		BALL VALVE GS				
PRODUCT No.	DN	D	H	L	Rd×S	kg
4103 0	010	10	45	76	28×1/8"	0,610
4103 0	015	16	45	77	34×1/8"	0,600
4103 0	020	20	50	92	44×1/6"	0,650
4103 0	025	26	55	100	52×1/6"	0,900
4103 0	032	32	65	112	58×1/6"	1,440
4103 0	040	38	77	128	65×1/6"	2,350
4103 0	050	50	79	131	78×1/6"	3,100
4103 0	065	66	105	166	95×1/6"	5,300
4103 0	080	81	115	197	110×1/4"	7,830
4103 0	100					
4103 0	125					
4103 0	150					



ORDERING NUMBER		BALL VALVE KK				
PRODUCT No.	DN	D	H	L	Rd×S	kg
4104 0	010	10	45	81	28×1/8"	0,780
4104 0	015	16	45	87	34×1/8"	0,810
4104 0	020	20	50	92	44×1/6"	0,930
4104 0	025	26	55	100	52×1/6"	1,300
4104 0	032	32	65	112	58×1/6"	1,960
4104 0	040	38	77	125	65×1/6"	2,930
4104 0	050	50	79	135	78×1/6"	3,900
4104 0	065	66	105	172	95×1/6"	6,700
4104 0	080	81	115	195	110×1/4"	9,500
4104 0	100					
4104 0	125					
4104 0	150					



ORDERING NUMBER

PRODUCT No. DN

D

H

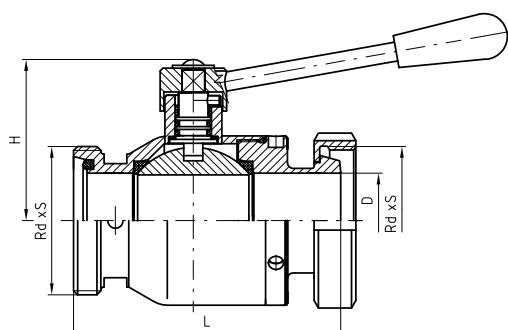
L

Rd×S

kg

BALL VALVE KG

4105 0	010	10	45	81	28×1/8"	0,720
4105 0	015	16	45	87	34×1/8"	0,730
4105 0	020	20	50	92	44×1/6"	0,840
4105 0	025	26	55	100	52×1/6"	1,140
4105 0	032	32	65	112	58×1/6"	1,770
4105 0	040	38	77	125	65×1/6"	2,720
4105 0	050	50	79	135	78×1/6"	3,600
4105 0	065	66	105	172	95×1/6"	6,130
4105 0	080	81	115	195	110×1/4"	8,940
4105 0	100					
4105 0	125					
4105 0	150					



ORDERING NUMBER

PRODUCT No. DN

D

H

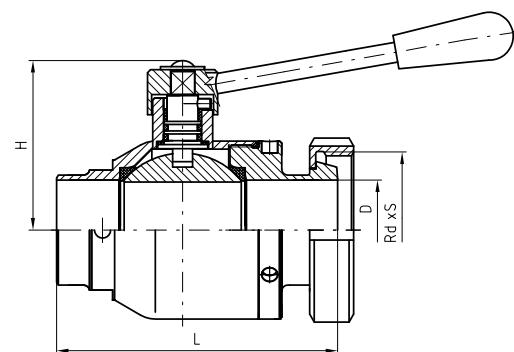
L

Rd×S

kg

BALL VALVE KS

4106 0	010	10	45	85	28×1/8"	0,680
4106 0	015	16	45	91	34×1/8"	0,690
4106 0	020	20	50	98	44×1/6"	0,750
4106 0	025	26	55	107	52×1/6"	1,010
4106 0	032	32	65	119	58×1/6"	1,620
4106 0	040	38	77	132	65×1/6"	2,540
4106 0	050	50	79	142	78×1/6"	3,340
4106 0	065	66	105	180	95×1/6"	5,836
4106 0	080	81	115		110×1/4"	8,380
4106 0	100					
4106 0	125					
4106 0	150					



ORDERING NUMBER

PRODUCT No. DN

D

D1

H

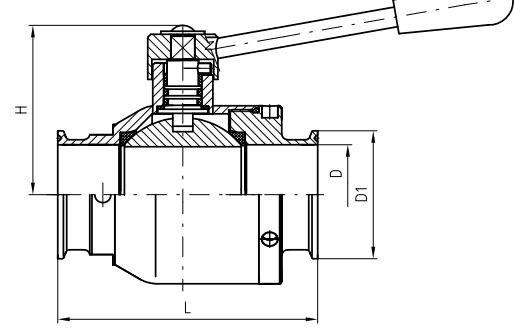
L

Rd×S

kg

BALL VALVE CC

4107 0	010	10	34	45	78	28×1/8"	0,690
4107 0	015	16	34	45	81	34×1/8"	0,690
4107 0	020	20	34	50	92	44×1/6"	0,720
4107 0	025	26	50,5	55	105	52×1/6"	0,900
4107 0	032	32	50,5	65	112	58×1/6"	1,400
4107 0	040	38	50,5	77	132	65×1/6"	2,250
4107 0	050	50	64	79	135	78×1/6"	2,920
4107 0	065	66	91	105	170	95×1/6"	5,200
4107 0	080	81	106	115	195	110×1/4"	7,450
4107 0	100						
4107 0	125						
4107 0	150						



ORDERING NUMBER

PRODUCT No. DN

D

D1

H

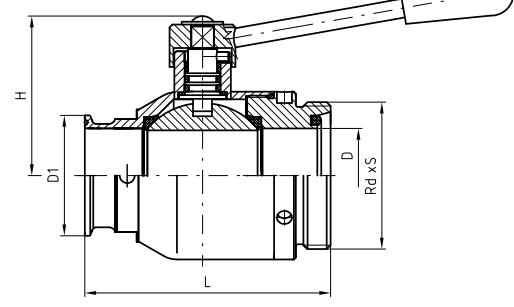
L

Rd×S

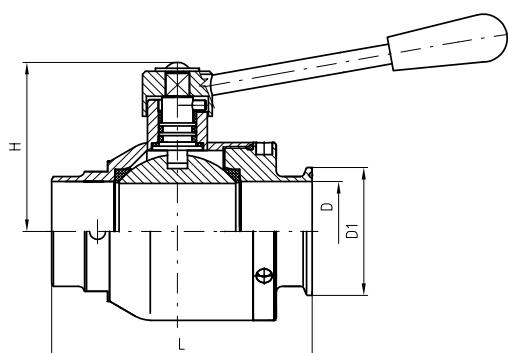
kg

BALL VALVE GC

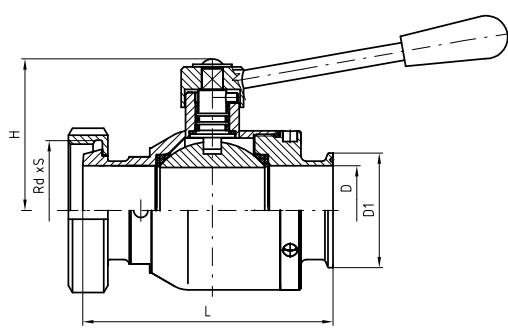
4108 0	010	10	34	45	78	28×1/8"	0,700
4108 0	015	16	34	45	77	34×1/8"	0,700
4108 0	020	20	34	50	93	44×1/6"	0,730
4108 0	025	26	50,5	55	94	52×1/6"	0,950
4108 0	032	32	50,5	65	112	58×1/6"	1,500
4108 0	040	38	50,5	77	130	65×1/6"	2,400
4108 0	050	50	64	79	134	78×1/6"	3,120
4108 0	065	66	91	105	153	95×1/6"	5,350
4108 0	080	81	106	115	195	110×1/4"	7,920
4108 0	100						
4108 0	125						
4108 0	150						



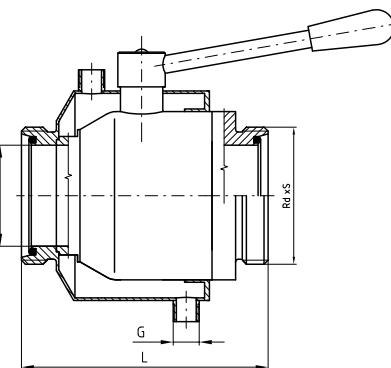
ORDERING NUMBER		BALL VALVE CS					
PRODUCT No.	DN	D	D1	H	L	Rd×S	kg
4109 0	010	10	34	45	77	28×1/8"	0,625
4109 0	015	16	34	45	81	34×1/8"	0,627
4109 0	020	20	34	50	92	44×1/6"	0,635
4109 0	025	26	50,5	55	103	52×1/6"	0,820
4109 0	032	32	50,5	65	112	58×1/6"	1,340
4109 0	040	38	50,5	77	130	65×1/6"	2,200
4109 0	050	50	64	79	132	78×1/6"	2,860
4109 0	065	66	91	105	181	95×1/6"	5,050
4109 0	080	81	106	115	197	110×1/4"	7,350
4109 0	100						
4109 0	125						
4109 0	150						



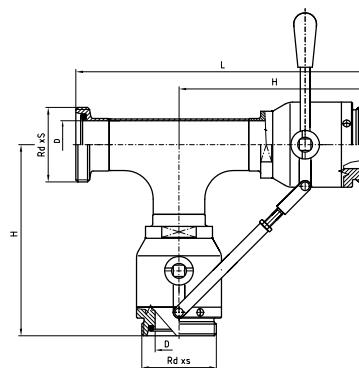
ORDERING NUMBER		BALL VALVE CK					
PRODUCT No.	DN	D	D1	H	L	Rd×S	kg
4110 0	010	10	34	45	81	28×1/8"	0,730
4110 0	015	16	34	45	87	34×1/8"	0,750
4110 0	020	20	34	50	92	44×1/6"	0,800
4110 0	025	26	50,5	55	100	52×1/6"	1,080
4110 0	032	32	50,5	65	112	58×1/6"	1,680
4110 0	040	38	50,5	77	125	65×1/6"	2,590
4110 0	050	50	64	79	135	78×1/6"	3,400
4110 0	065	66	91	105	172	95×1/6"	5,900
4110 0	080	81	106	115	195	110×1/4"	8,500
4110 0	100						
4110 0	125						
4110 0	150						



ORDERING NUMBER		BALL VALVE GG, HEATED					
PRODUCT No.	DN	D	L	G	Rd×S		
4111 0	020	20	108		1/2"	44×1/6"	
4111 0	025	26	118		1/2"	52×1/6"	
4111 0	032	32	127		1/2"	58×1/6"	
4111 0	040	38	145		1/2"	65×1/6"	
4111 0	050	50	154		1/2"	78×1/6"	
4111 0	065	66	187		3/4"	95×1/6"	
4111 0	080	81	228		3/4"	110×1/4"	
4111 0	100	100	250		3/4"	130×1/4"	



ORDERING NUMBER		3-WAY BALL VALVE, COUPLED			
PRODUCT No.	DN	D	H	L	Rd×S
4330 0	025	26	119	186	52×1/6"
4330 0	032	32	133	190	58×1/6"
4330 0	040	38	159	223	65×1/6"
4330 0	050	50	175	250	78×1/6"
4330 0	065	66	231	314	95×1/6"
4330 0	080	81	262	363	110×1/4"



Dimensions and connection type need to be agreed.

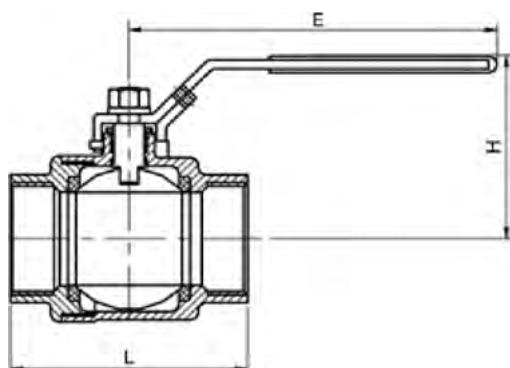
ORDERING NUMBER

PRODUCT No. DN

L E H kg

4201 0	1/4"	55	108	46	0,29
4201 0	3/8"	55	108	46	0,24
4201 0	1/2"	65	108	56	0,35
4201 0	3/4"	74	132	62	0,54
4201 0	1"	88	160	70	0,88
4201 0	1 1/4"	102	160	78	1,32
4201 0	1 1/2"	110	195	92	1,9
4201 0	2"	125	195	102	2,98
4201 0	2 1/2"	162	270	140	6,2
4201 0	3"	178	270	148	9
4201 0	4"	280	195	175	18,05

BALL VALVE GG



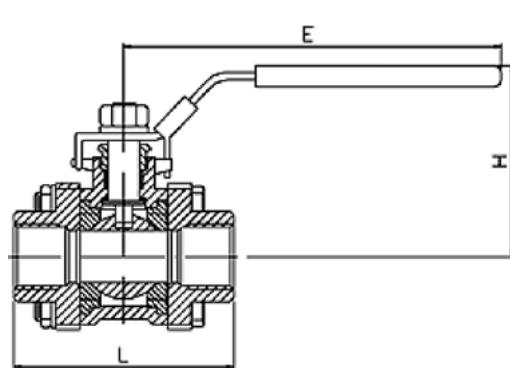
ORDERING NUMBER

PRODUCT No. DN

L E H

4301 0	1/4"	60	106	54
4301 0	3/8"	60	106	54
4301 0	1/2"	75	106	60
4301 0	3/4"	77	132	66
4301 0	1"	85	158	76
4301 0	1 1/4"	104	158	82
4301 0	1 1/2"	120	193	94
4301 0	2"	130	193	103
4301 0	2 1/2"	162	267	139
4301 0	3"	182	267	154
4301 0	4"	228	292	198

BALL VALVE GG (3-PART)



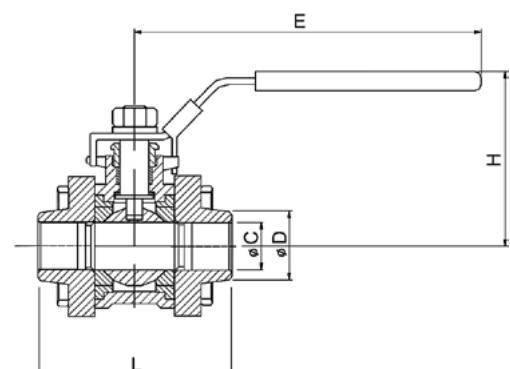
ORDERING NUMBER

PRODUCT No. DN

L E H C D

43020	8	60	106	54	
43020	10	60	106	54	
43020	15	75	106	60	15 21,7
43020	20	77	132	66	20 27
43020	25	85	158	76	25 33,5
43020	32	104	158	82	32 42,5
43020	40	120	193	94	38 48,8
43020	50	130	193	103	50 61
43020	65	162	267	139	66 73,7
43020	80	182	267	145	80
43020	100	228	292	198	100

BALL VALVE SS (3-PART)



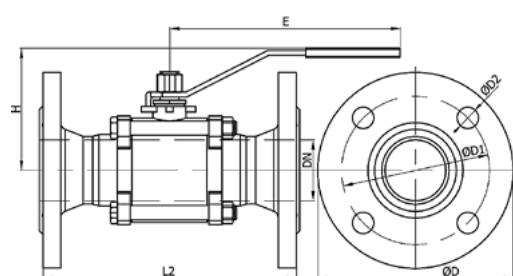
ORDERING NUMBER

PRODUCT No. DN

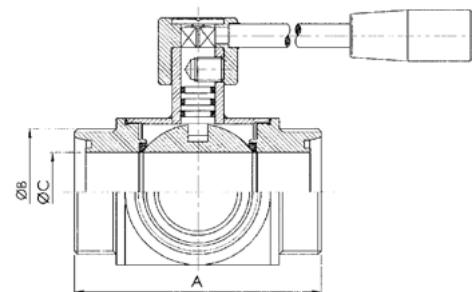
D D1 D2 L2 E H

43220	25	115	85	14x4	159	158	76
43220	32	140	100	18x4	182	158	82
43220	40	15	110	18x4	2023	193	94
43220	50	165	125	18x4	218	193	103
43220	65	185	145	18x4	250	267	139
43220	80	200	160	18x8	280	267	145
43220	100	220	180	18x8	330	292	198

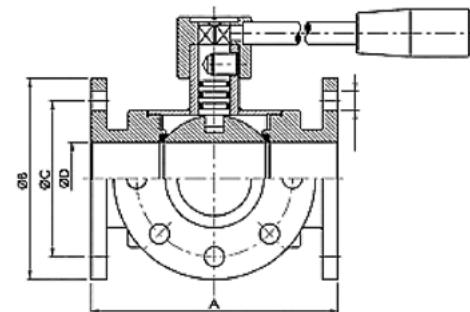
BALL VALVE WITH FLANGES (3-PART)



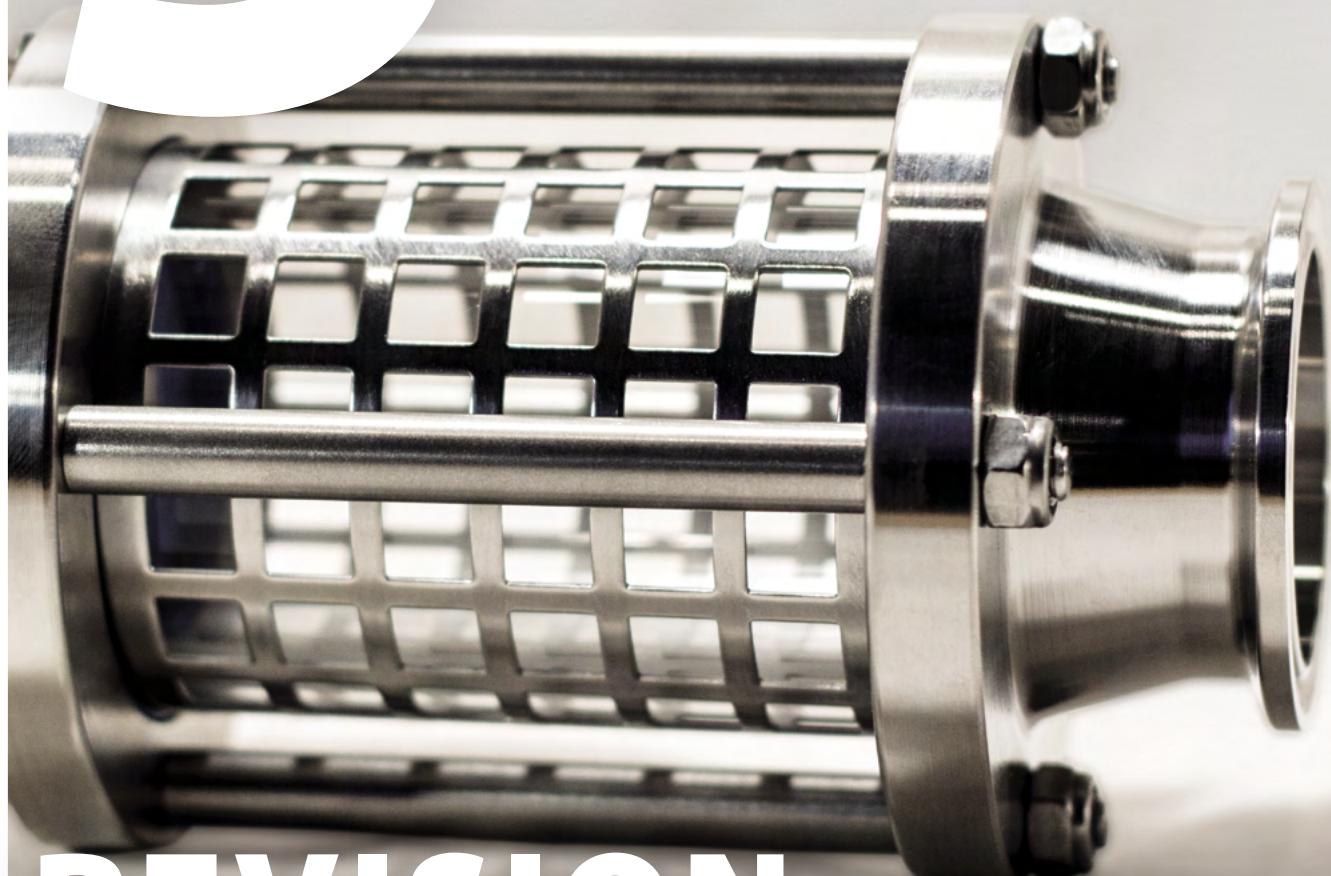
ORDERING NUMBER					3-WAY BALL VALVE GGG
PRODUCT No.	DN	A	B	C	
4331 0	25	140	52×1/6"	25	
4331 0	32	156	58×1/6"	32	
4331 0	40	172	65×1/6"	40	
4331 0	50	182	78×1/6"	50	
4331 0	65	196	95×1/6"	65	
4331 0	80	256	110×1/4"	80	
4331 0	100	286	130×1/4"	100	



ORDERING NUMBER							3-WAY BALL VALVE WITH FLANGES
PRODUCT No.	DN	A	B	C	D	E	
4332 0	25	150	115	85	25	14	
4332 0	32	180	140	100	32	18	
4332 0	40	200	150	110	40	18	
4332 0	50	220	165	125	50	18	
4332 0	65	240	185	145	65	18	
4332 0	80	260	200	160	80	18	
4332 0	100	300	220	180	100	18	



5



REVISION PARTS

5.1/2	SIGHT GLASSES	65
5.3	SAMPLING TAPS	71
5.4	LEVEL INDICATORS	73

SIGHT GLASSES

Sight glasses are used for controlling flow of liquids.

Consists of two flanges with welding or threaded ending, liner with nut or by clamp connecting piece, sealing, glass, cage, 4 bolts and handle. Connections can be combined as desired.

SIGHT GLASS GG 5101 0

(possibility of ordering spare sealing, glass and cage of sight glass)



SIGHT GLASS LIGHTING

Used for better visibility through the flowing liquid.

	halogen	LED
U_{NAP}	24 V AC, DC	12 V DC
I_{MAX}	0,8 A	200 mA
protection	III. class = low voltage	

LIGHTING FOR NUT SIGHT GLASS

Used for better visibility through the liquid in tanks.

The body of lighting is not sealed against flowing water.

The operating temperature during continuous operation is 60 °C.

	LED
U_{NAP}	12 V DC
I_{MAX}	200 mA
protection	III. class = low voltage

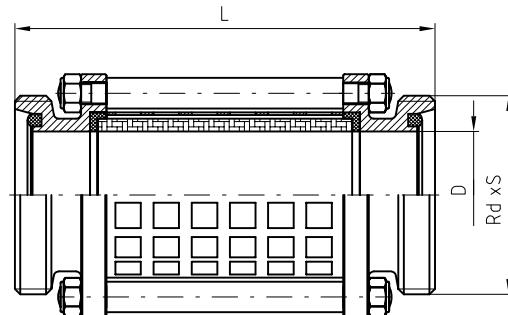
SAMPLING TAPS

Sampling taps are used for sampling and monitoring of fluid flowing through or being stored.

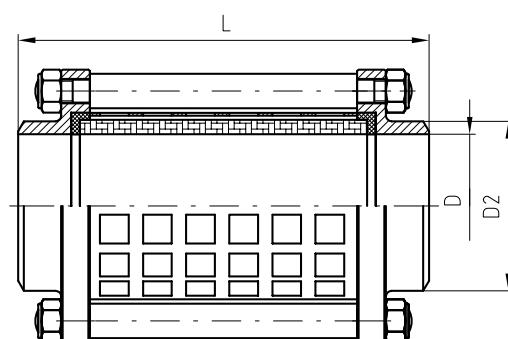
LEVEL INDICATOR

Level indicators allow you to monitor water levels in containers and tanks.

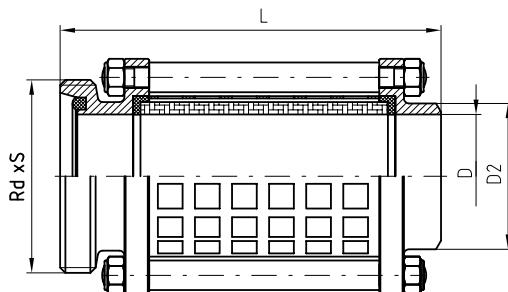
ORDERING NUMBER						SIGHT GLASS GG
PRODUCT No.	DN	D	L	Rd×S	kg	
5101 0	025	26	144	52×1/6"	0,612	
5101 0	032	32	144	58×1/6"	0,702	
5101 0	040	38	144	65×1/6"	0,922	
5101 0	050	50	164	78×1/6"	1,232	
5101 0	065	66	172	95×1/6"	1,522	
5101 0	080	81	205	110×1/4"	1,722	
5101 0	100	100	209	130×1/4"	3,369	
5101 0	125	125	265	160×1/4"	6,400	
5101 0	150	150	273	190×1/4"	7,800	



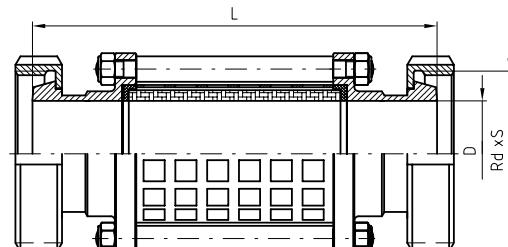
ORDERING NUMBER						SIGHT GLASS SS
PRODUCT No.	DN	D	D2	L	kg	
5102 0	025	26	34	112	0,402	
5102 0	032	32	41	114	0,500	
5102 0	040	38	48	122	0,682	
5102 0	050	50	59	142	0,862	
5102 0	065	66	75	142	1,090	
5102 0	080	81	90	171	1,282	
5102 0	100	100	110	173	2,762	
5102 0	125	125	138	229	4,970	
5102 0	150	150	162	229	6,010	



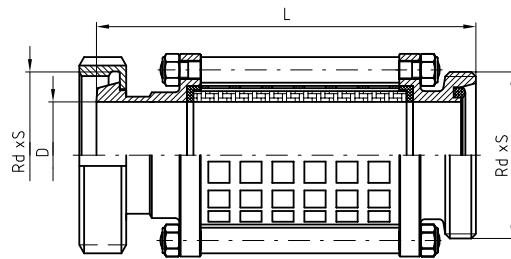
ORDERING NUMBER						SIGHT GLASS GS	
PRODUCT No.	DN	D	D2	L	Rd×S	kg	
5103 0	025	26	34	128	52×1/6"	0,502	
5103 0	032	32	41	129	58×1/6"	0,601	
5103 0	040	38	48	133	65×1/6"	0,800	
5103 0	050	50	59	153	78×1/6"	0,980	
5103 0	065	66	75	157	95×1/6"	1,290	
5103 0	080	81	90	188	110×1/4"	1,530	
5103 0	100	100	110	191	130×1/4"	3,020	
5103 0	125	125	138	247	160×1/4"	5,500	
5103 0	150	150	162	251	190×1/4"	6,970	



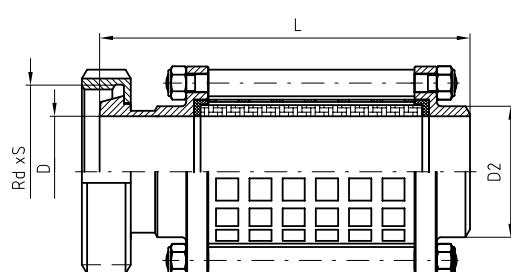
ORDERING NUMBER						SIGHT GLASS KK
PRODUCT No.	DN	D	L	Rd×S	kg	
5104 0	025	26	148	52×1/6"	0,640	
5104 0	032	32	156	58×1/6"	0,746	
5104 0	040	38	166	65×1/6"	0,972	
5104 0	050	50	190	78×1/6"	1,872	
5104 0	065	66	198	95×1/6"	2,622	
5104 0	080	81	237	110×1/4"	3,632	
5104 0	100	100	253	130×1/4"	4,519	
5104 0	125	125	289	160×1/4"	9,300	
5104 0	150	150	295	190×1/4"	11,560	



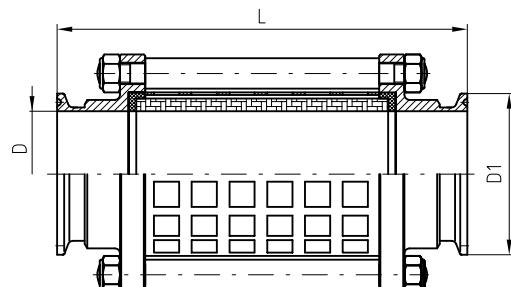
ORDERING NUMBER						SIGHT GLASS KG
PRODUCT No.	DN	D	L	Rd×S	kg	
5105 0	025	26	146	52×1/6"	0,620	
5105 0	032	32	150	58×1/6"	0,725	
5105 0	040	38	155	65×1/6"	0,952	
5105 0	050	50	177	78×1/6"	1,530	
5105 0	065	66	185	95×1/6"	2,075	
5105 0	080	81	221	110×1/4"	2,606	
5105 0	100	100	231	130×1/4"	3,602	
5105 0	125	125	277	160×1/4"	7,850	
5105 0	150	150	284	190×1/4"	9,680	



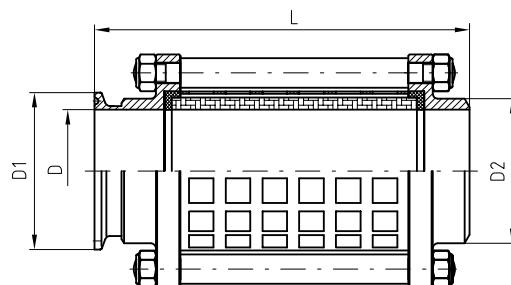
ORDERING NUMBER						SIGHT GLASS KS
PRODUCT No.	DN	D	D2	L	Rd×S	kg
5106 0	025	26	34	130	52×1/6"	0,590
5106 0	032	32	41	135	58×1/6"	0,700
5106 0	040	38	48	144	65×1/6"	0,913
5106 0	050	50	59	166	78×1/6"	1,479
5106 0	065	66	75	170	95×1/6"	1,899
5106 0	080	81	90	204	110×1/4"	2,496
5106 0	100	100	110	213	130×1/4"	3,302
5106 0	125	125	138	259	160×1/4"	7,020
5106 0	150	150	162	262	190×1/4"	8,850



ORDERING NUMBER						SIGHT GLASS CC
PRODUCT No.	DN	D	D1	L	kg	
5107 0	025	26	50,5	132	0,580	
5107 0	032	32	50,5	134	0,625	
5107 0	040	38	50,5	142	0,782	
5107 0	050	50	64	162	0,990	
5107 0	065	66	91	168	1,240	
5107 0	080	81	106	197	1,472	
5107 0	100	100	119	199	3,032	
5107 0	125					
5107 0	150					



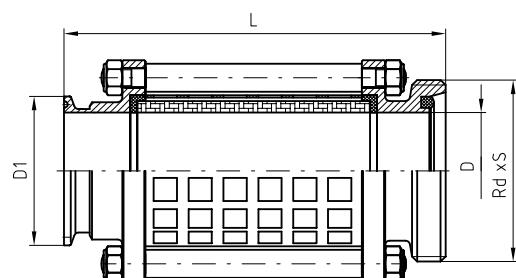
ORDERING NUMBER						SIGHT GLASS CS
PRODUCT No.	DN	D	D1	D2	L	kg
5108 0	025	26	50,5	34	122	0,572
5108 0	032	32	50,5	41	124	0,650
5108 0	040	38	50,5	48	132	0,855
5108 0	050	50	64	59	152	1,040
5108 0	065	66	91	75	155	1,365
5108 0	080	81	106	90	184	1,625
5108 0	100	100	119	110	186	3,200
5108 0	125					
5108 0	150					



ORDERING NUMBER

PRODUCT No.	DN	D	D1	L	Rd×S	kg
5109 0	025	26	50,5	138	52×1/6"	0,642
5109 0	032	32	50,5	139	58×1/6"	0,661
5109 0	040	38	50,5	143	65×1/6"	0,850
5109 0	050	50	64	163	78×1/6"	1,040
5109 0	065	66	91	170	95×1/6"	1,365
5109 0	080	81	106	201	110×1/4"	1,625
5109 0	100	100	119	204	130×1/4"	3,200
5109 0	125					
5109 0	150					

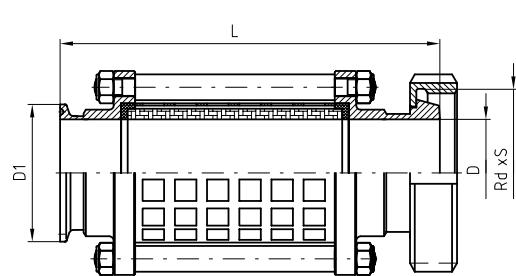
SIGHT GLASS CG



ORDERING NUMBER

PRODUCT No.	DN	D	D1	L	Rd×S	kg
5110 0	025	26	50,5	140	52×1/6"	0,660
5110 0	032	32	50,5	145	58×1/6"	0,760
5110 0	040	38	50,5	154	65×1/6"	0,963
5110 0	050	50	64	176	78×1/6"	1,539
5110 0	065	66	91	183	95×1/6"	1,974
5110 0	080	81	106	217	110×1/4"	2,591
5110 0	100	100	119	226	130×1/4"	3,482
5110 0	125					
5110 0	150					

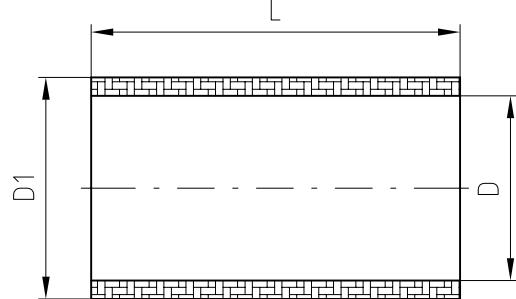
SIGHT GLASS CK



ORDERING NUMBER

PRODUCT No.	DN	D	D1	L	PN	kg
5002 0	025	26	32	80	20	0,050
5002 0	032	32	40	80	20	0,070
5002 0	040	40	50	80	20	0,120
5002 0	050	50	60	100	20	0,190
5002 0	065	65	75	100	20	0,240
5002 0	080	80	90	120	20	0,350
5002 0	100	100	110	120	10	0,450
5002 0	125	125	140	160	10	0,900
5002 0	150	150	165	160	10	1,350

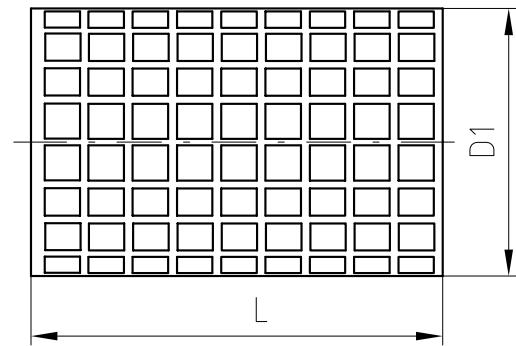
GLASS FOR SIGHT GLASS



ORDERING NUMBER

PRODUCT No.	DN	D1	L	kg
5003 0	025	36	73	0,030
5003 0	032	44	73	0,040
5003 0	040	53	73	0,050
5003 0	050	63	93	0,070
5003 0	065	79	93	0,090
5003 0	080	95	111	0,110
5003 0	100	115	111	0,140
5003 0	125	145	152	1,340
5003 0	150	168	152	1,800

CAGE FOR SIGHT GLASS



ORDERING NUMBER

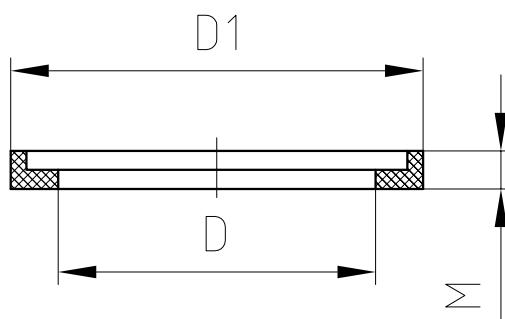
PRODUCT No. DN

D D1 M

5004 0	025	27	37	6
5004 0	032	34	45	6
5004 0	040	40	55	6
5004 0	050	51	65	6
5004 0	065	66,5	80	6
5004 0	080	81,5	96	8
5004 0	100	101,5	116,5	8
5004 0	125	127	147,5	8,5
5004 0	150	151	171,5	8,5

Material – NBR/EPDM/Silikon

SEALING FOR SIGHT GLASS

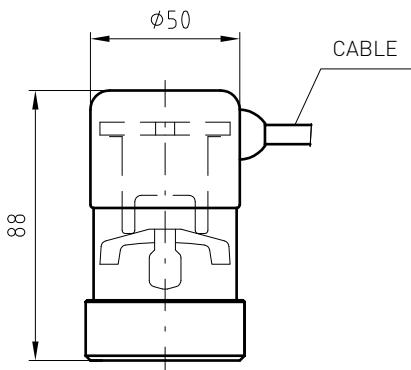


ORDERING NUMBER

PRODUCT No. DN

5270 0

LAMP



ORDERING NUMBER

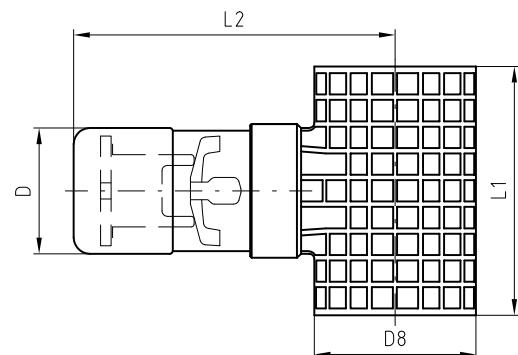
PRODUCT No. DN

D D8 L1 L2

kg

5130 0	025	44,5	36	73	102,5	0,300
5130 0	032	44,5	44	73	106	0,390
5130 0	040	44,5	53	73	111,5	0,400
5130 0	050	44,5	63	93	116,5	0,420
5130 0	065	44,5	79	93	122	0,440
5130 0	080	44,5	95	111	136	0,460
5130 0	100	44,5	115	111	141	0,490
5130 0	125	44,5	145	152	169	
5130 0	150	44,5	168	152	169	

LIGHTING WITH CAGE



ORDERING NUMBER

PRODUCT No. DN

D1

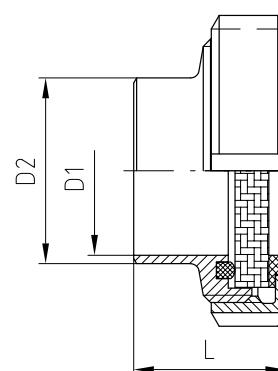
D2

L

kg

5210 0	015	16	21	28	0,250
5210 0	020	20	25	30	0,300
5210 0	025	26	31	36	0,350
5210 0	032	32	37	39	0,420
5210 0	040	38	43	42	0,530
5210 0	050	50	55	45	0,726
5210 0	065	66	72	50	1,110
5210 0	080	81	87	55	1,590
5210 0	100	100	106	65	2,380
5210 0	125	125	132	55	3,570
5210 0	150	150	157	60	5,400

NUT SIGHT GLASS



ORDERING NUMBER

PRODUCT No. DN

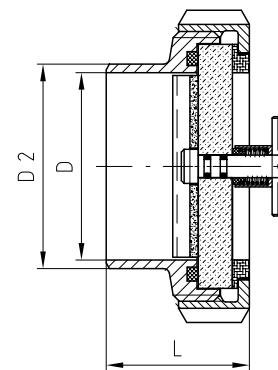
D

D2

L

5210 0	065	66	72	50
5210 0	080	81	87	55
5210 0	100	100	106	65

NUT SIGHT GLASS WITH WIPER



ORDERING NUMBER

PRODUCT No. DN

D

L

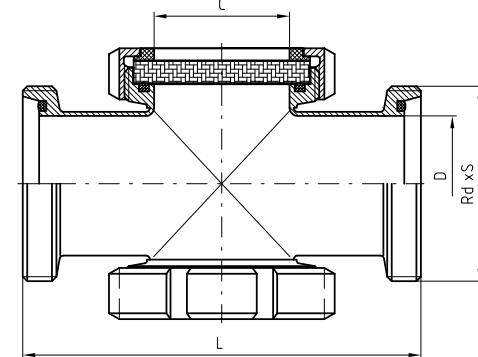
C

Rd×S

kg

5241 0	020	20	106	20	44×1/6"	0,864
5241 0	025	26	126	26	52×1/6"	1,046
5241 0	032	32	137	32	58×1/6"	1,250
5241 0	040	37	146	38	65×1/6"	1,538
5241 0	050	49	166	50	78×1/6"	2,140
5241 0	065	66	190	66	95×1/6"	3,240
5241 0	080	81	218	66	110×1/4"	4,470
5241 0	100	100	238	66	130×1/4"	6,980
5241 0	125	125	296	81	160×1/4"	9,014
5241 0	150	150	336	81	190×1/4"	15,380

DOUBLE SIGHT GLASS GG



ORDERING NUMBER

PRODUCT No. DN

D

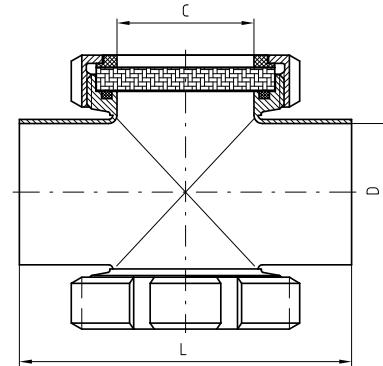
L

C

kg

5242 0	020	19	80	20	0,470
5242 0	025	25	100	26	0,650
5242 0	032	31	110	32	0,780
5242 0	040	37	120	38	1,000
5242 0	050	49	140	50	1,400
5242 0	065	66	160	66	2,450
5242 0	080	81	180	66	3,400
5242 0	100	100	200	66	5,100
5242 0	125	125	250	81	8,640
5242 0	150	150	280	81	12,800

DOUBLE SIGHT GLASS SS



ORDERING NUMBER						TEMPERED GLASS
PRODUCT No.	DN	D1	S	PN	kg	
5202 0	015	28	5	20	0,010	
5202 0	020	36	5	20	0,012	
5202 0	025	44	5	20	0,018	
5202 0	032	50	6	20	0,040	
5202 0	040	56	6	20	0,045	
5202 0	050	69	10	20	0,090	
5202 0	065	86	10	20	0,130	
5202 0	080	99	12	20	0,200	
5202 0	100	119	14	10	0,300	
5202 0	125	145	15	10	0,550	
5202 0	150	180	15	10	0,830	

For heat shock up to 80 °C.

ORDERING NUMBER							POLYAMID INSERT
PRODUCT No.	DN	D1	D2	D3	T	T1	
5203 0	015	28	24,5	16	6	4	0,002
5203 0	020	35	30,5	20	7	4	0,004
5203 0	025	44	35,5	26	8	5	0,005
5203 0	032	49	41,5	32	6	3	0,005
5203 0	040	54	48	38	8	5	0,008
5203 0	050	69	61,5	50	5	2	0,010
5203 0	065	86	79	66	6	2	0,012
5203 0	080	99	93	81	6	2	0,014
5203 0	100	119	114	100	9	4	0,027
5203 0	125	148	137	125	8	3	0,030
5203 0	150	177	157	150	8	2	0,040

PA – polyamid

ORDERING NUMBER				Rd×S	kg	NUT WITH LIGHTING
PRODUCT No.	DN	Rd	S			
5261 0	020			44×1/6"	0,920	
5261 0	025			52×1/6"	1,080	
5261 0	032			58×1/6"	1,400	
5261 0	040			65×1/6"	1,800	
5261 0	050			78×1/6"		
5261 0	065			95×1/6"		
5261 0	080			110×1/4"		
5261 0	100			130×1/4"		

ORDERING NUMBER				Rd×S	NUT WITH LIGHTING IN CASE
PRODUCT No.	DN	Rd	S		
5262 0	080			110×1/4"	
5262 0	100			130×1/4"	
5262 0	125			160×1/4"	
5262 0	150			190×1/4"	

ORDERING NUMBER

PRODUCT No. DN

D

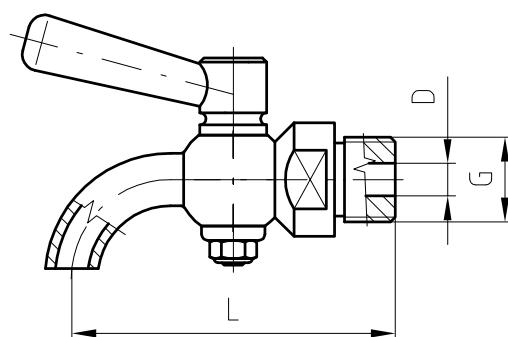
L

G

kg

5310 0	004	4	60	1/4"	0,290
5310 0	006	6	66	3/8"	0,300
5310 0	008	8	80	1/2"	0,320
5310 0	012	12	90	3/4"	0,420

SAMPLING TAP STANDARD G



Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

ORDERING NUMBER

PRODUCT No. DN

D

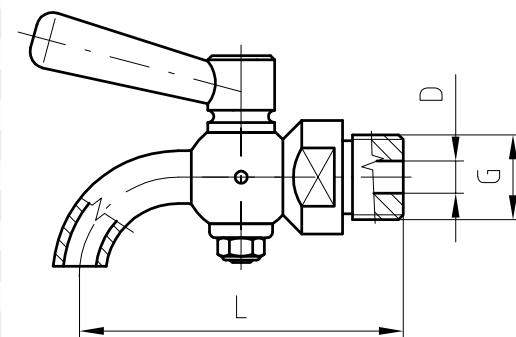
L

G

kg

5311 0	004	4	60	1/4"	0,290
5311 0	006	6	66	3/8"	0,300
5311 0	008	8	80	1/2"	0,320
5311 0	012	12	90	3/4"	0,420

SAMPLING TAP STANDARD G WITH SANITARY HOLE



Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

ORDERING NUMBER

PRODUCT No. DN

D

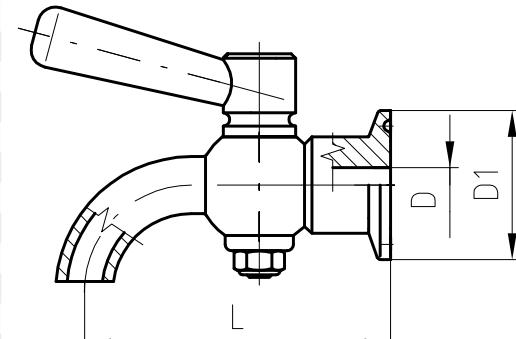
D1

L

kg

5312 0	004	4	34	65	0,340
5312 0	006	6	34	85	0,350
5312 0	008	8	34	85	0,370

SAMPLING TAP STANDARD C



Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

ORDERING NUMBER

PRODUCT No. DN

D

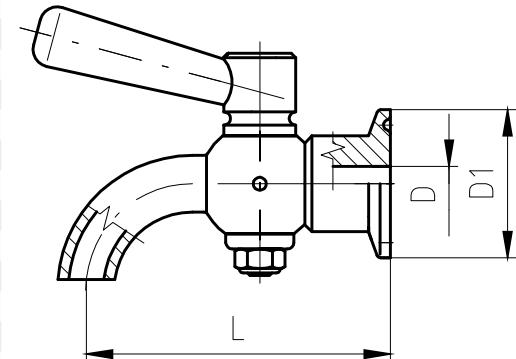
D1

L

kg

5313 0	004	4	34	65	0,340
5313 0	006	6	34	85	0,350
5313 0	008	8	34	85	0,370

SAMPLING TAP STANDARD C WITH SANITARY HOLE



Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

ORDERING NUMBER

PRODUCT No. DN

D

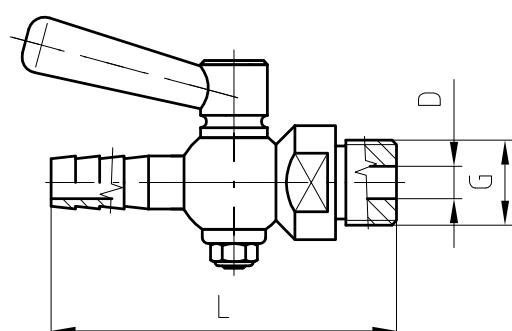
L

G

kg

5314 0	004	4	64	1/4"	0,300
5314 0	006	6	73	3/8"	0,325
5314 0	008	8	85	1/2"	0,325
5314 0	012	12	105	3/4"	0,490

SAMPLING TAP G WITH HOSE ADAPTOR



Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

ORDERING NUMBER

PRODUCT No. DN

D

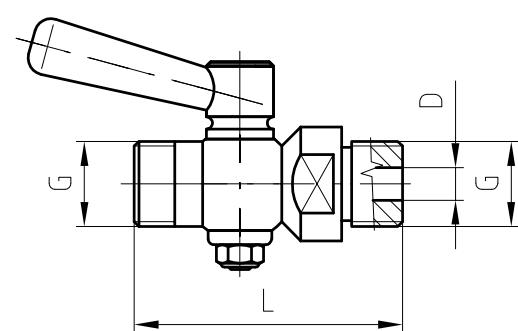
L

G

kg

5315 0	004	4	53	1/4"	0,310
5315 0	006	6	61	3/8"	0,332
5315 0	008	8	75	1/2"	0,332
5315 0	012	12	86	3/4"	0,502

SAMPLING TAP GG



Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

ORDERING NUMBER

PRODUCT No. DN

D

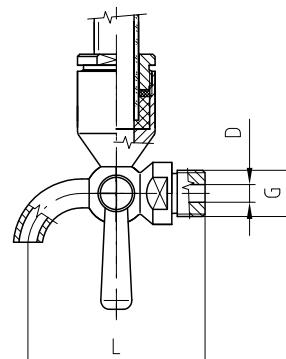
L

G

kg

5316 0	008	8	80	1/2"	0,380
5316 0	012	12	133	3/4"	

SAMPLING TAP FOR LEVEL INDICATOR, GLASS



Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

ORDERING NUMBER

PRODUCT No. DN

D

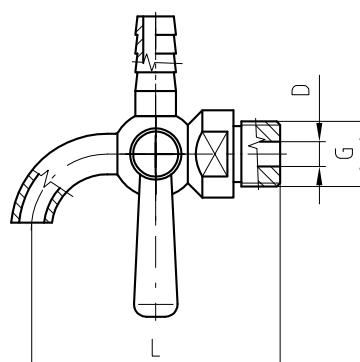
L

G

kg

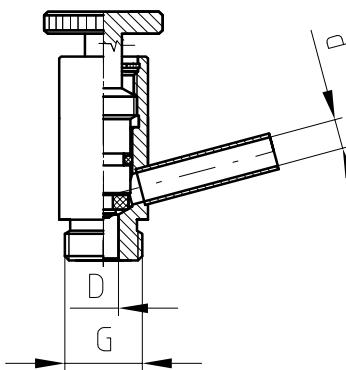
5317 0	008	8	80	1/2"	0,370
5317 0	012	12	133	3/4"	

SAMPLING TAP FOR LEVEL INDICATOR, HOSE

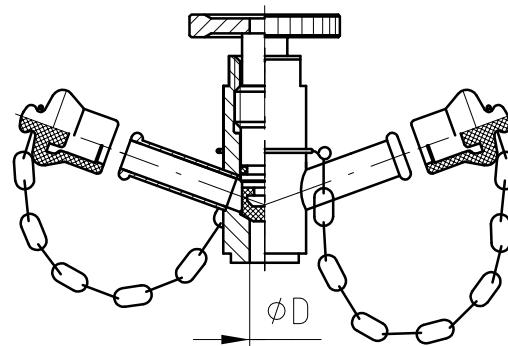


Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

ORDERING NUMBER		SAMPLING TAP G, ANGULAR				
PRODUCT No.	DN	D	d	M	G	kg
5320 0	008	8	6	M14x1,5	0,090	
5320 0	008	8	6		G1/4"	0,110
5320 0	008	8	6		G3/8"	0,180
5320 0	008	8	6		G1/2"	0,200
5320 0	008	8	8	M14x1,5		0,100
5320 0	008	8	8		G1/4"	0,120
5320 0	008	8	8		G3/8"	0,190
5320 0	008	8	8		G1/2"	0,210
5320 0	012	12	12		G3/4"	0,480

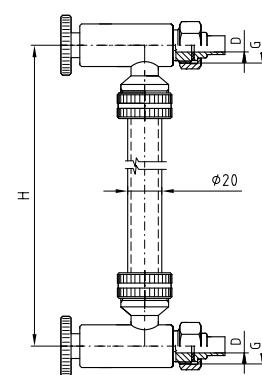


ORDERING NUMBER		DOUBLE SAMPLING TAP WITH CAPS	
PRODUCT No.	DN	kg	
5322 0	008	0,300	



ORDERING NUMBER**PRODUCT No.****DN****D****G**

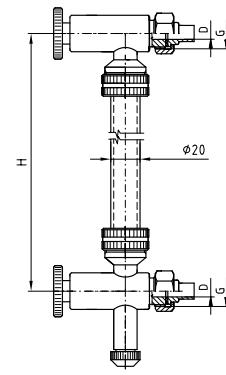
5410 0 008 8 1/2"

LEVEL INDICATOR 5 BAR

H = axial length according to customer requirements.

ORDERING NUMBER**PRODUCT No.****DN****D****G**

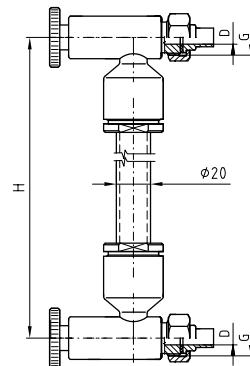
5420 0 008 8 1/2"

LEVEL INDICATOR 5 BAR WITH SAMPLING TAP

H = axial length according to customer requirements.

ORDERING NUMBER**PRODUCT No.****DN****D****G**

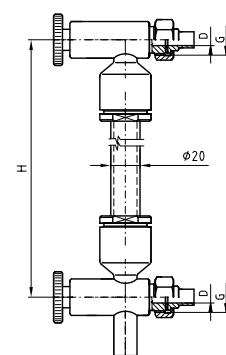
5430 0 008 8 1/2"

LEVEL INDICATOR 10 BAR

H = axial length according to customer requirements.

ORDERING NUMBER**PRODUCT No.****DN****D****G**

5440 0 008 8 1/2"

LEVEL INDICATOR 10 BAR WITH SAMPLING TAP

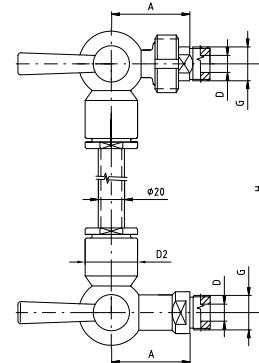
H = axial length according to customer requirements.

ORDERING NUMBER							LEVEL INDICATOR
PRODUCT No.	DN	D	D2	A	G	kg	
5450 0	008	10	35	66	1/2"	2,600	
5450 0	012		35	60	3/4"	2,820	

Can be supplied with connection welded or G1/2".

Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

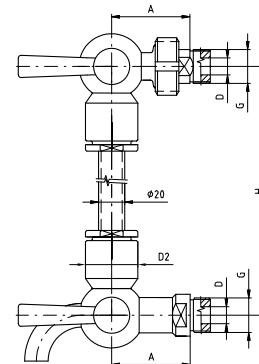
H = axial length according to customer requirements.



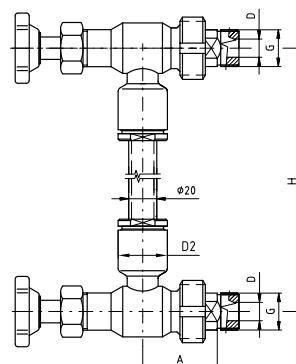
Can be supplied with connection welded or G1/2".

Not suitable for alcohol, acetone, methyl alcohol, ethyl alcohol, sugar solutions.

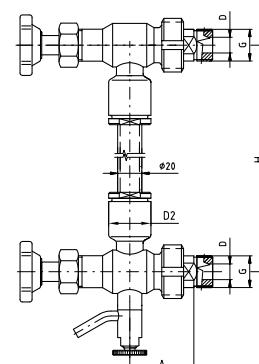
H = axial length according to customer requirements.



H = axial length according to customer requirements.



H = axial length according to customer requirements.

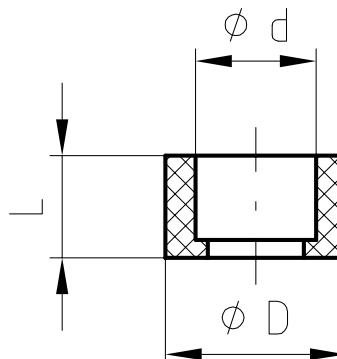
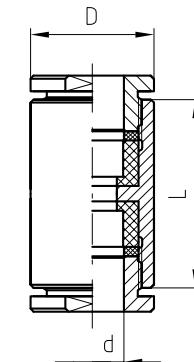


For other lengths indicate the desired length of level indicator H.

Heat shock max. 80 °C.

ORDERING NUMBER	SHIELD FOR LEVEL INDICATOR				
PRODUCT No.	DN	D1	L	glass length	kg
5402 0		35	1982	2000	1,640
5402 0		35	2482	2500	2,200
5402 0		35	2982	3000	2,550

For other lengths indicate the desired length of level indicator H.



6



REVERSE VALVES

6.1

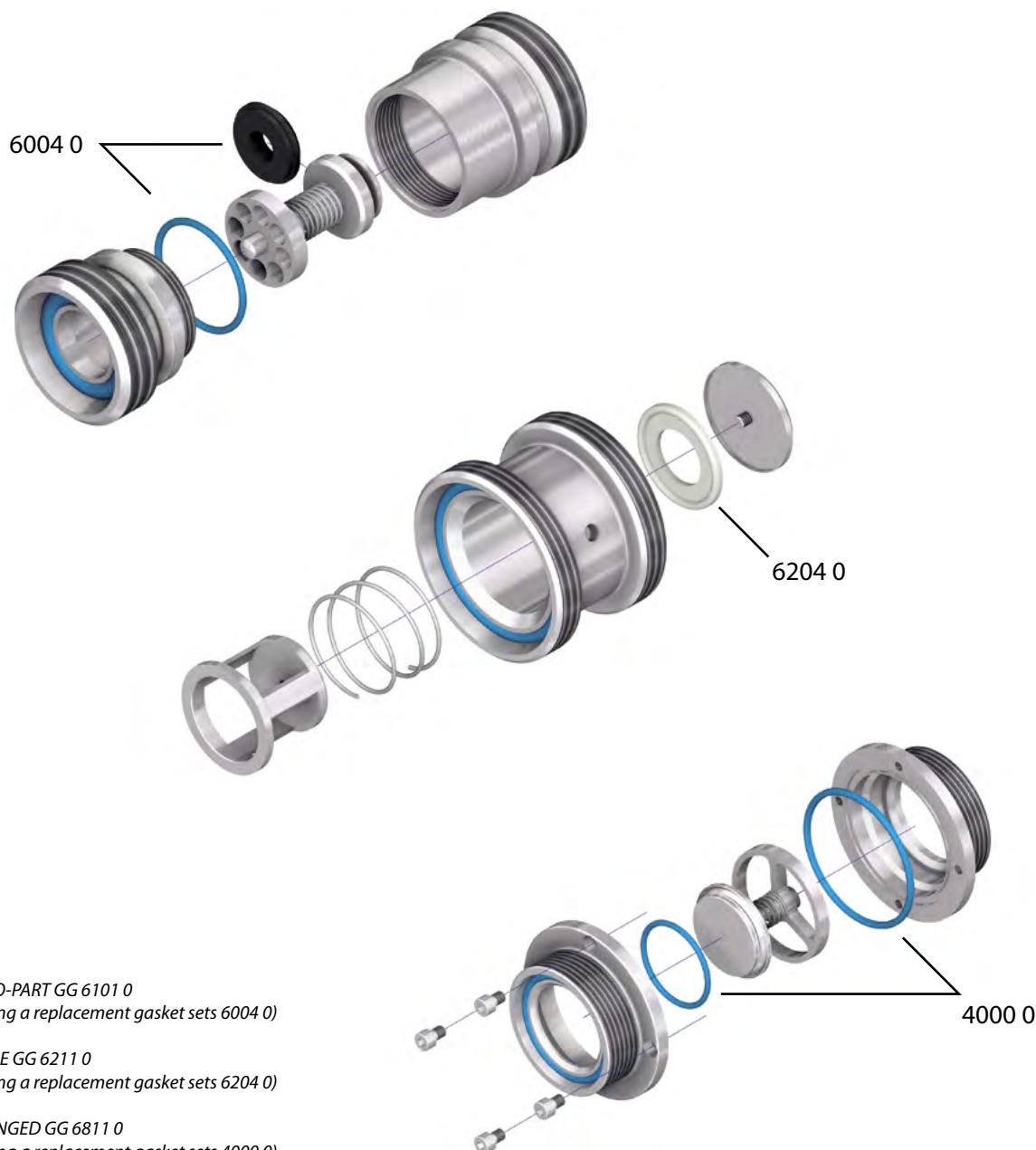
REVERSE VALVES

79

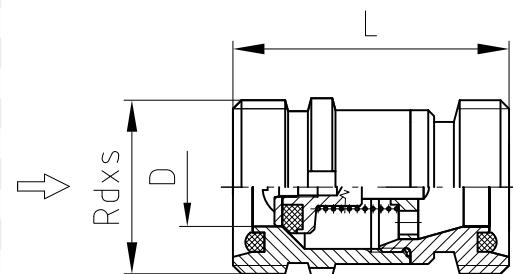
REVERSE VALVES

reverse valves prevent the return flow of fluids.

Opening pressure 0.02–0.1 bar.

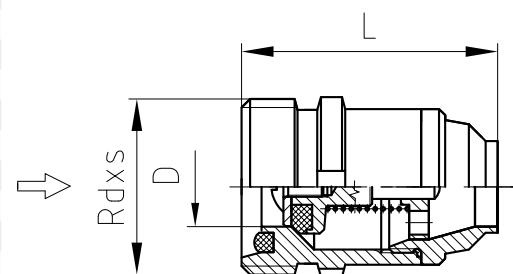


ORDERING NUMBER						REVERSE VALVE GG, 2-PART
PRODUCT No.	DN	D	L	Rd×S	kg	
6101 0	010	10	60	28×1/8"	0,190	
6101 0	015	16	60	34×1/8"	0,250	
6101 0	020	20	70	44×1/6"	0,310	



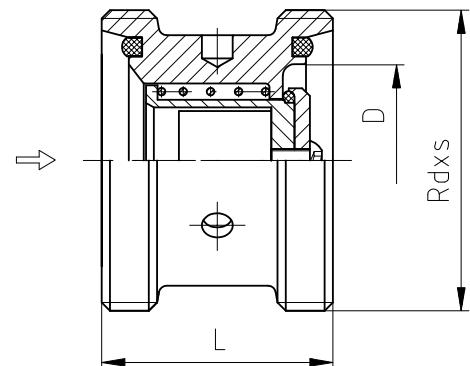
End types KK, KS, KG, CC, CS etc. – dimensions supplied on request.

ORDERING NUMBER						REVERSE VALVE GS, 2-PART
PRODUCT No.	DN	D	L	Rd×S	kg	
6103 0	015	10	60	28×1/8"	0,180	
6103 0	015	16	60	34×1/8"	0,240	
6103 0	015	20	70	44×1/6"	0,300	



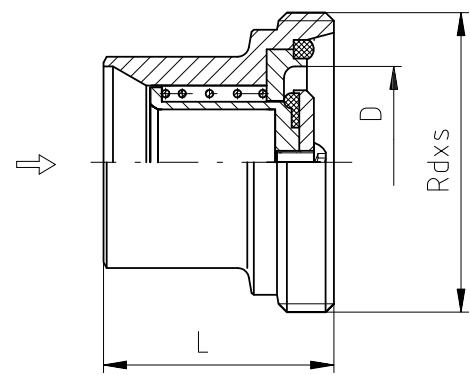
End types KK, KS, KG, CC, CS etc. – dimensions supplied on request.

ORDERING NUMBER						REVERSE VALVE GG, CAGE
PRODUCT No.	DN	D	L	Rd×S	kg	
6211 0	025	26	42	52×1/6"	0,300	
6211 0	032	32	50	58×1/6"	0,410	
6211 0	040	38	50	65×1/6"	0,600	
6211 0	050	50	60	78×1/6"	1,050	
6211 0	065	66	70	95×1/6"	1,500	
6211 0	080	81	80	110×1/4"	2,300	



End types KK, KS, KG, CC, CS etc. – dimensions supplied on request.

ORDERING NUMBER						REVERSE VALVE SG, CAGE
PRODUCT No.	DN	D	L	Rd×S	kg	
6213 0	025	26	42	52×1/6"	0,210	
6213 0	032	32	50	58×1/6"	0,300	
6213 0	040	38	50	65×1/6"	0,390	
6213 0	050	50	60	78×1/6"	0,680	
6213 0	065	66	70	95×1/6"	1,400	
6213 0	080	81	80	110×1/4"	2,000	



End types KK, KS, KG, CC, CS etc. – dimensions supplied on request.

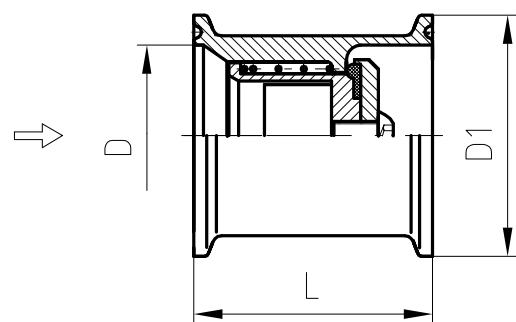
ORDERING NUMBER

PRODUCT No. DN

D D1 L

6217 0	025	26	50,5	42
6217 0	032	32	50,5	50
6217 0	040	38	50,5	50
6217 0	050	50	64	60
6217 0	065	66	91	70

REVERSE VALVE CC, CAGE



ORDERING NUMBER

PRODUCT No. DN

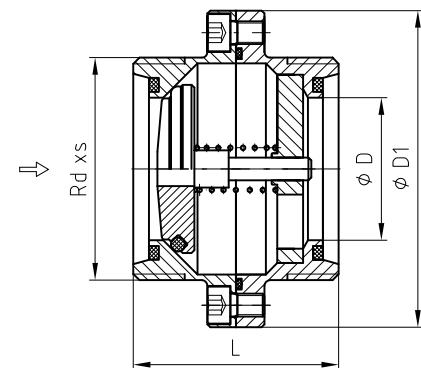
D D1 L

Rd×S

kg

6811 0	025	26	87	64	52x1/6"	1,000
6811 0	032	32	93	66	58x1/6"	1,150
6811 0	040	38	98	72	65x1/6"	1,300
6811 0	050	50	111	72	78x1/6"	1,700
6811 0	065	66	128	80	95x1/6"	2,300
6811 0	080	81	143	100	110x1/4"	3,800
6811 0	100	100	164	104	130x1/4"	4,700

REVERSE VALVE GG, FLANGED



End types KK, KS, KG, CC, CS etc. – dimensions supplied on request.

ORDERING NUMBER

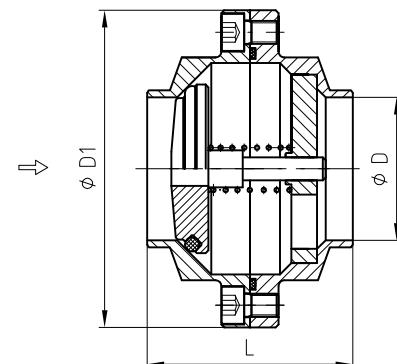
PRODUCT No. DN

D D1 L

kg

6812 0	025	26	87	64	0,950
6812 0	032	32	93	66	
6812 0	040	38	98	72	1,200
6812 0	050	50	111	72	1,550
6812 0	065	66	128	80	2,200
6812 0	080	81	143	100	3,700
6812 0	100	100	164	104	

REVERSE VALVE SS, FLANGED



End types KK, KS, KG, CC, CS etc. – dimensions supplied on request.

ORDERING NUMBER

PRODUCT No. DN

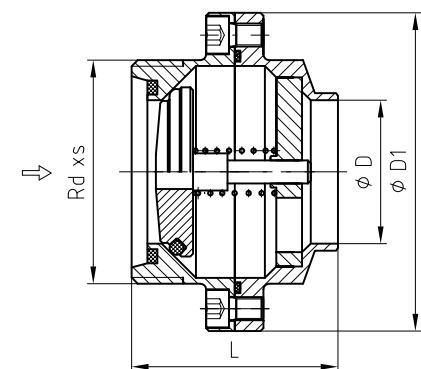
D D1 L

Rd×S

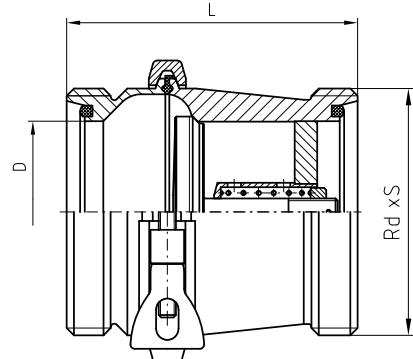
kg

6813 0	025	26	87	64	52x1/6"	1,000
6813 0	032	32	93	66	58x1/6"	1,100
6813 0	040	38	98	72	65x1/6"	1,250
6813 0	050	50	111	72	78x1/6"	1,650
6813 0	065	66	128	80	95x1/6"	2,200
6813 0	080	81	143	100	110x1/4"	3,700
6813 0	100	100	164	104	130x1/4"	4,600

REVERSE VALVE GS, FLANGED



End types KK, KS, KG, CC, CS etc. – dimensions supplied on request.



End types KK, KS, KG, CC, CS etc. – dimensions supplied on request.

7



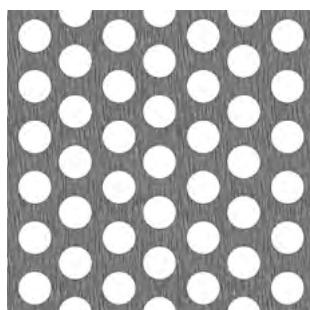
SPECIAL PARTS

7.1/2	FILTERS	86
7.3	SPUNDING VALVES	90
7.4	PRESSURE VALVES	91
7.5	SATURATION AND AERATION PLUGS	93
7.6/7	WINE INDUSTRY ACCESSORIES	94

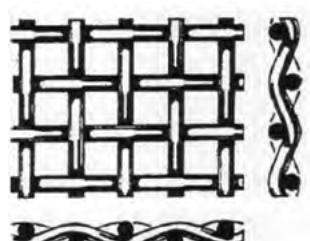


ANGLE FILTER GG 7101 0

STRAIGHT FILTER GG 7201 0



perforated sheet 0,8–8 mm



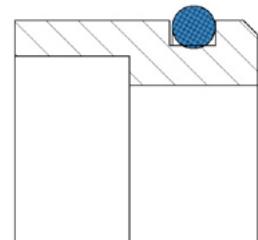
standard smooth weave



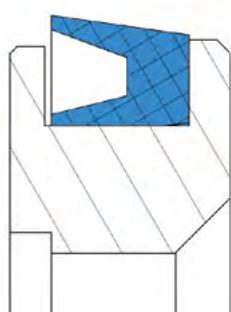
filter insert



trese weave



"O"-ring sealing



cuff sealing

FILTERS

Filters are used to capture solid particulates flowing through the medium.

Filters consist of the body and insert.

The body is to be welded or terminated by a pair of male parts, liner with nut or clamp connecting pieces. Endings can be combined as desired.

The standard filter insert is supplied with a perforated sheet of 1 mm.

Variants of filter inserts: § 1

- Insert with perforated sheet 1–8 mm,
- Insert with sieve-mesh size 0.05 to 0.8 mm,
- Insert with a slot width of 0.05–1 mm.

PRESSURE VALVES

SPUNDING VALVES

Spunding valves allow to regulate pressure in the range of 0.2–3 bar in tanks and visually show the amount of escaping gas.

We supply three basic types according to the volumes of containers – up to 180 hectoliters, up to 500 hectoliters and up to 1000 hectoliters.

DOUBLE-ACTING VALVES

Double-acting valves are used to equalize the pressure in the tank when pumping or filling.

Pressure range 0,02–2 bar. In sizes DN40 and DN50 up to 3 bar.

They are available in versions for connecting by male part Rd or clamp.

VACUUM VALVES

Vacuum valves are used for pressure equalization during the emptying and sanitation tanks. The valve automatically sucks in air to equalize pressure.

They are available in versions for connecting by male part Rd or clamp connecting piece.

Vacuum valves with weight are used to reduce vacuum in reservoirs and tanks when draining or sanitation. Vacuum can be adjusted by sliding weights on the arm in the range of 0.02–0.05 bar.

They are available in flanged version.

SATURATION AND AERATION PLUGS

Saturation and aeration plugs are used for carbonation or aeration media in the beverage industry, especially brewing.

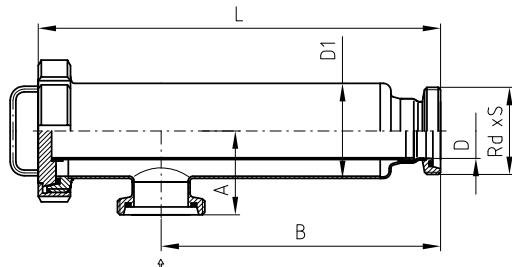
Plugs are supplied with a ceramic porous insert, the insert of the drilled stainless steel tube or insert made of sintered steel.

FLOW-METERS

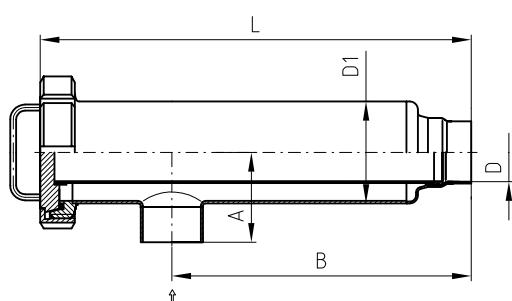
Flow-meters are used for visual control of the amount of flowing liquid.

There are three basic amount types with accuracy of +/– 10 %.

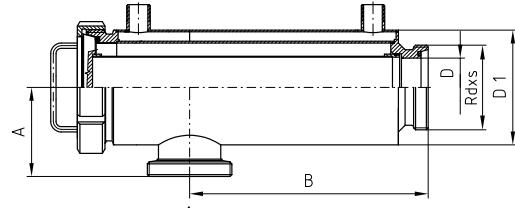
ORDERING NUMBER								ANGLE FILTER GG
PRODUCT No.	DN	D	D1	L	A	B	Rd×S	kg
7101 0	025	26	52	318	55	230	52×1/6"	1,900
7101 0	032	32	70	332	65	235	58×1/6"	3,100
7101 0	040	38	85	356	75	245	65×1/6"	4,200
7101 0	050	50	85	356	75	250	78×1/6"	4,200
7101 0	065	66	104	383	85	275	95×1/6"	6,200
7101 0	080	81	129	542	100	345	110×1/4"	8,700
7101 0	100	100	154	571	115	355	130×1/4"	12,700
7101 0	125							
7101 0	150							



ORDERING NUMBER								ANGLE FILTER SS
PRODUCT No.	DN	D	D1	L	A	B	kg	
7102 0	025	26	52	318	55	222	1,700	
7102 0	032	32	70	332	65	227	2,900	
7102 0	040	38	85	356	75	245	4,000	
7102 0	050	50	85	356	75	250	4,900	
7102 0	065	66	104	383	85	265	5,800	
7102 0	080	81	129	542	100	335	8,200	
7102 0	100	100	154	571	115	345	11,400	
7102 0	125	125	204	577	150	430		
7102 0	150	150	219	792	160	500		

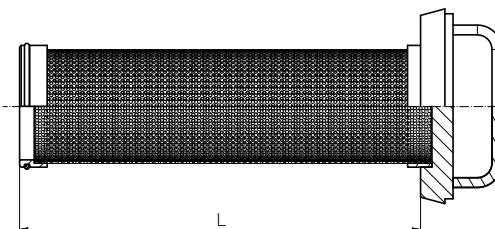


ORDERING NUMBER								ANGLE FILTER GG, HEATED
PRODUCT No.	DN	Rd×S						
7111 0	025							52×1/6"
7111 0	032							58×1/6"
7111 0	040							65×1/6"
7111 0	050							78×1/6"
7111 0	065							95×1/6"
7111 0	080							110×1/4"
7111 0	100							130×1/4"
7111 0	125							
7111 0	150							



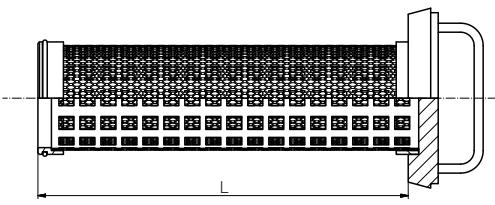
Dimensions and connection type need to be agreed.

ORDERING NUMBER	PRODUCT No.	DN	L	ANGLE FILTER INSERT, PERFORATED SHEET
	7010 0	25	284	
	7010 0	32	295	
	7010 0	40	320	
	7010 0	50	320	
	7010 0	65	342	
	7010 0	80	502	
	7010 0	100	510	
	7010 0	125	508	
	7010 0	150	750	



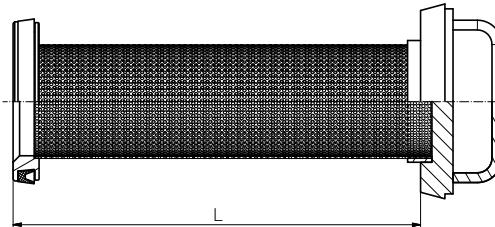
Standard dimension of the holes is D=1 mm on demand option d=2; 3; 4; 5; 6 and 8 mm.

ORDERING NUMBER	PRODUCT No.	DN	L	ANGLE FILTER INSERT, SIEVE
	7011 0	25	284	
	7011 0	32	295	
	7011 0	40	320	
	7011 0	50	320	
	7011 0	65	342	
	7011 0	80	502	
	7011 0	100	510	
	7011 0	125	508	
	7011 0	150	750	



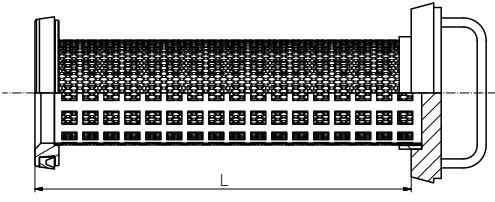
The possibility to choose the size of holes from 0.05 to 2.5 mm.

ORDERING NUMBER	PRODUCT No.	DN	L	ANGLE FILTER INSERT, PERFORATED SHEET, CUFF
	7012 0	25	250	
	7012 0	32	257	
	7012 0	40	282	
	7012 0	50	290	
	7012 0	65	317	
	7012 0	80	460	
	7012 0	100	470	



Standard dimension of the holes is D=1 mm on demand option d=2; 3; 4; 5; 6 and 8 mm.

ORDERING NUMBER	PRODUCT No.	DN	L	ANGLE FILTER INSERT, SIEVE, CUFF
	7013 0	25	250	
	7013 0	32	257	
	7013 0	40	282	
	7013 0	50	290	
	7013 0	65	317	
	7013 0	80	460	
	7013 0	100	470	



The possibility to choose the size of holes from 0.05 to 2.5 mm.

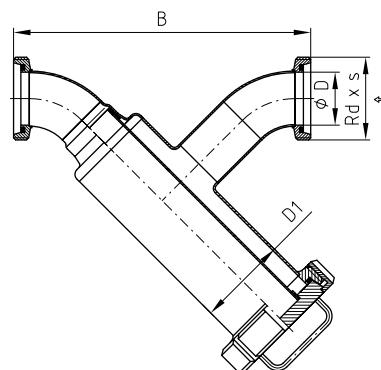
ORDERING NUMBER

PRODUCT No. DN

D D1 B Rd×S

7201 0	025	26	52	227	52×1/6"
7201 0	032	32	70	250	58×1/6"
7201 0	040	38	85	288	65×1/6"
7201 0	050	50	85	312	78×1/6"
7201 0	065	66	104	309	95×1/6"
7201 0	080	81	129	384	110×1/4"
7201 0	100	100	154	432	130×1/4"
7201 0	125				
7201 0	150				

STRAIGHT FILTER GG



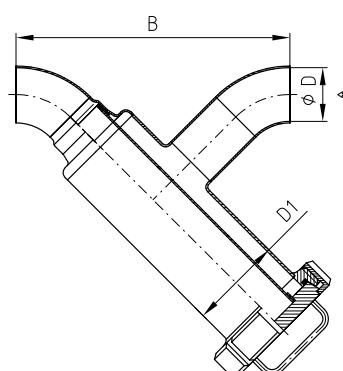
ORDERING NUMBER

PRODUCT No. DN

D D1 B

7202 0	025	26	52	187
7202 0	032	32	70	210
7202 0	040	38	85	249
7202 0	050	50	85	272
7202 0	065	66	104	259
7202 0	080	81	129	328
7202 0	100	100	154	376
7202 0	125			
7202 0	150			

STRAIGHT FILTER SS



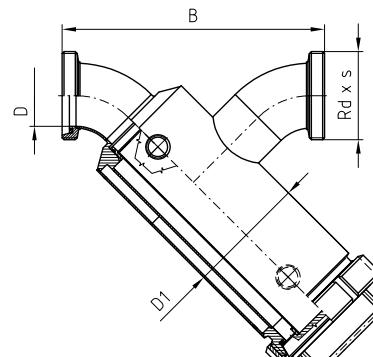
ORDERING NUMBER

PRODUCT No. DN

Rd×S

7211 0	025			52×1/6"
7211 0	032			58×1/6"
7211 0	040			65×1/6"
7211 0	050			78×1/6"
7211 0	065			95×1/6"
7211 0	080			110×1/4"
7211 0	100			130×1/4"
7211 0	125			
7211 0	150			

STRAIGHT FILTER GG, HEATED



Dimensions and connection type need to be agreed.

ORDERING NUMBER

PRODUCT No. DN

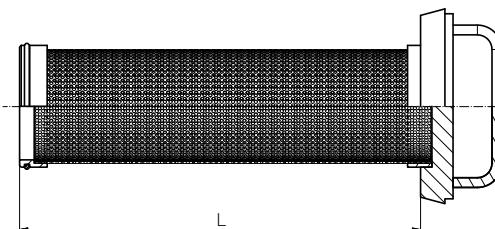
D D1 D2 L Rd×S

7291 0	025	26	52	64	396	52×1/6"
7291 0	032	32	70	91	402	58×1/6"
7291 0	040	38	85	106	445	65×1/6"
7291 0	050	50	85	106	437	78×1/6"
7291 0	065	66	104	119	440	95×1/6"
7291 0	080	81	129	155	645	110×1/4"
7291 0	100	100	154	183	649	130×1/4"
7291 0	125					160×1/4"
7291 0	150					190×1/4"

STRAIGHT FILTER GG, ONGOING WITH CUFF

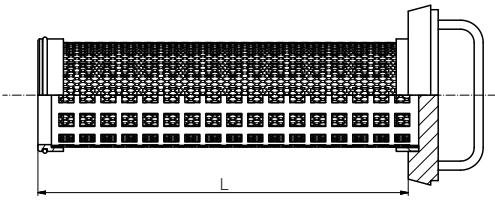


ORDERING NUMBER	PRODUCT No.	DN	L	STRAIGHT FILTER INSERT, PERFORATED SHEET
7020 0	25	229		
7020 0	32	240		
7020 0	40	240		
7020 0	50	250		
7020 0	65	288		
7020 0	80	301		
7020 0	100	360		
7020 0	125	449		
7020 0	150	490		



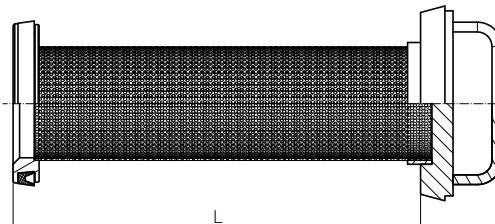
Standard dimension of the holes is D=1 mm on demand option d=2; 3; 4; 5; 6 and 8 mm.

ORDERING NUMBER	PRODUCT No.	DN	L	STRAIGHT FILTER INSERT, SIEVE
7021 0	25	229		
7021 0	32	240		
7021 0	40	240		
7021 0	50	250		
7021 0	65	288		
7021 0	80	301		
7021 0	100	360		
7021 0	125	449		
7021 0	150	490		



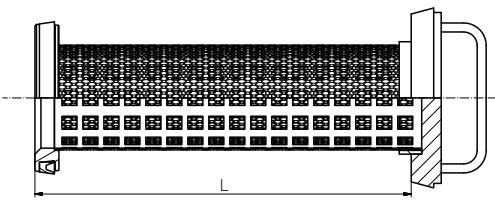
The possibility to choose the size of holes from 0.05 to 2.5 mm.

ORDERING NUMBER	PRODUCT No.	DN	L	STRAIGHT FILTER INSERT, PERFORATED SHEET, CUFF
7022 0	25	195		
7022 0	32	202		
7022 0	40	200		
7022 0	50	220		
7022 0	65	257		
7022 0	80	260		
7022 0	100	320		



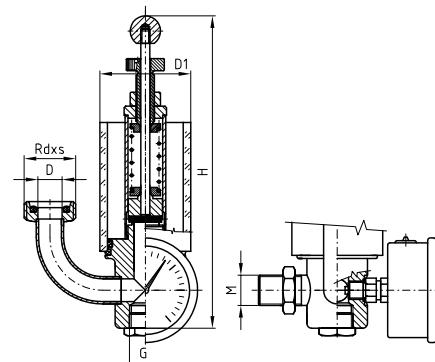
Standard dimension of the holes is D=1 mm on demand option d=2; 3; 4; 5; 6 and 8 mm.

ORDERING NUMBER	PRODUCT No.	DN	L	STRAIGHT FILTER INSERT, SIEVE, CUFF
7023 0	25	195		
7023 0	32	202		
7023 0	40	200		
7023 0	50	220		
7023 0	65	257		
7023 0	80	260		
7023 0	100	320		

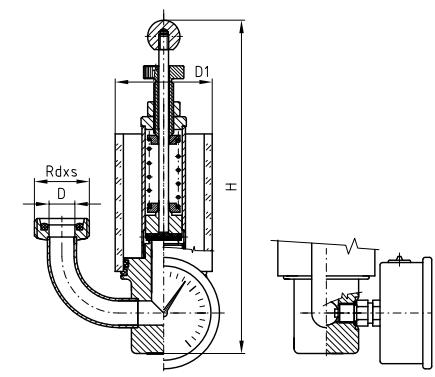


The possibility to choose the size of holes from 0.05 to 2.5 mm.

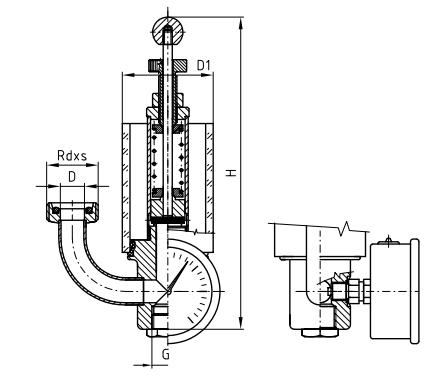
ORDERING NUMBER							SPUNDING VALVE
PRODUCT No.	DN	D	D1	H	CAPACITY	M	kg
7310 0		15	60	236	0–180 hl	20×1,5	1,550
7310 0		19	70	240	0–500 hl	20×1,5	1,700
7310 0		32	110	272	0–1000 hl	20×1,5	3,800



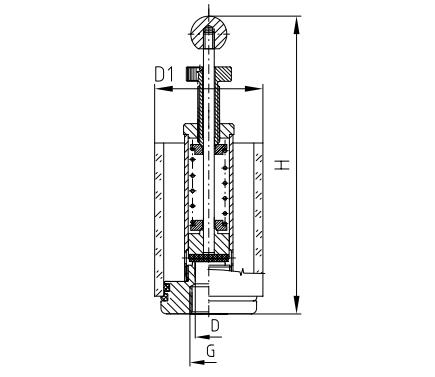
ORDERING NUMBER							SPUNDING VALVE, WITHOUT FIXING SCREW AND BOTTOM HOLE
PRODUCT No.	DN	D	D1	H	CAPACITY	M	kg
7320 0		15	60	236	0–180 hl	20×1,5	1,550
7320 0		19	70	240	0–500 hl	20×1,5	1,700
7320 0		32	110	272	0–1000 hl	20×1,5	3,800



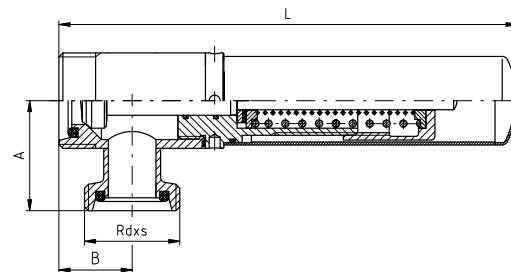
ORDERING NUMBER							SPUNDING VALVE, WITHOUT FIXING SCREW
PRODUCT No.	DN	D	D1	H	CAPACITY	M	kg
7330 0		15	60	236	0–180 hl	20×1,5	1,550
7330 0		19	70	240	0–500 hl	20×1,5	1,700
7330 0		32	110	272	0–1000 hl	20×1,5	3,800



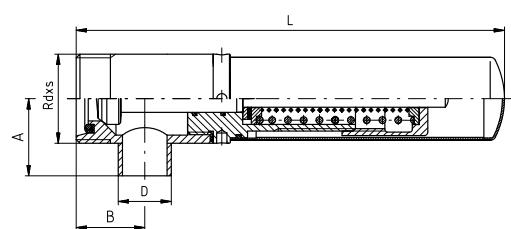
ORDERING NUMBER							SPUNDING VALVE, WITHOUT MANOMETER
PRODUCT No.	DN	D	D1	H	CAPACITY	G	
7350 0		15	60	160	0–180 hl	1/2"	
7350 0		19	70	175	0–500 hl	3/4"	
7350 0		32	110	200	0–1000 hl	5/4"	



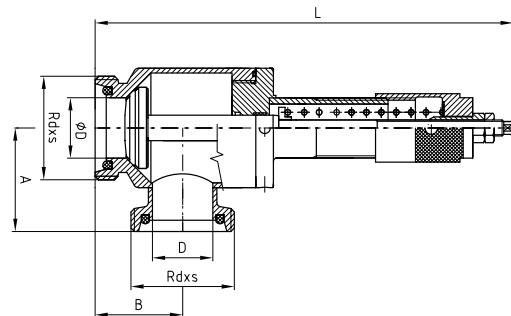
ORDERING NUMBER							SELF-ADJUSTABLE ANGLE VALVE GG
PRODUCT No.	DN	L	A	B	Rd×S	kg	
7411 0	025	250	60	40	52×1/6"	1,900	
7411 0	032	255	60	50	58×1/6"	2,000	
7411 0	040	325	70	55	65×1/6"	4,250	
7411 0	050	325	70	60	78×1/6"	4,300	
7411 0	065	330	80	75	95×1/6"	4,700	
7411 0	080						
7411 0	100						



ORDERING NUMBER							SELF-ADJUSTABLE ANGLE VALVE GS	
PRODUCT No.	DN	D	L	A	B	Rd×S	kg	
7413 0	025	31	250	45	40	52×1/6"	1,800	
7413 0	032	37	255	50	50	58×1/6"	1,900	
7413 0	040	43	325	65	55	65×1/6"	4,100	
7413 0	050	55	325	65	60	78×1/6"	4,200	
7413 0	065	72	330	70	75	95×1/6"	4,500	
7413 0	080							
7413 0	100							



ORDERING NUMBER							SELF-ADJUSTABLE ANGLE VALVE GG, WITH MECHANICAL VENTING	
PRODUCT No.	DN	D	L	A	B	Rd×S	kg	
7421 0	025	26	245	60	40	52×1/6"	1,900	
7421 0	032	32	250	65	50	58×1/6"	2,000	
7421 0	040	38	285	65	55	65×1/6"	4,250	
7421 0	050	50	295	80	60	78×1/6"	4,300	
7421 0	065	66	340	85	85	95×1/6"	4,700	
7421 0	080	81	365	95	95	110×1/4"		



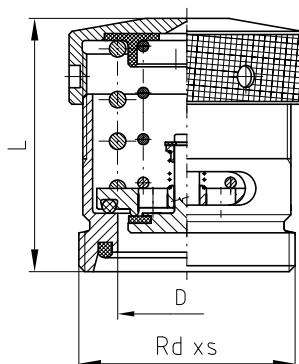
ORDERING NUMBER

PRODUCT No. DN

D L for volume m³ difference Rd x S kg

7431 0	40	38	112	10	80 °C	65x1/6"	1,600
7431 0	50	50	92	10	80 °C	78x1/6"	1,400
7431 0	80	81	180	50	80 °C	110x1/4"	4,450

DOUBLE-ACTING VALVE G



Vacuum 0,012 bar.

Controlled overpressure up to 2 bar, after agreement DN40 and DN50 up to 3 bar.

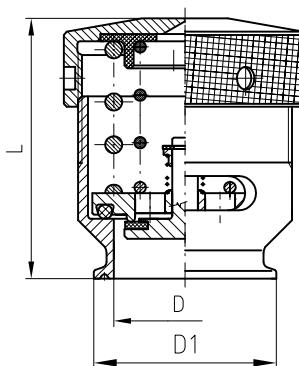
ORDERING NUMBER

PRODUCT No. DN

D D1 L for volume m³ difference kg

7437 0	40	38	50,5	112	10	80 °C	1,400
7437 0	50	50	64	92	10	80 °C	1,300
7437 0	80	81	106	180	50	80 °C	4,000

DOUBLE-ACTING VALVE C



Vacuum 0,012 bar.

Controlled overpressure up to 2 bar, after agreement DN40 and DN50 up to 3 bar.

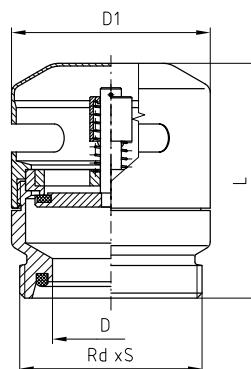
ORDERING NUMBER

PRODUCT No. DN

D D1 L for volume m³ difference Rd x S kg

7441 0	50	50	80	95	10	80 °C	78x1/6"	1,100
7441 0	80	81	129	145	50	80 °C	110x1/4"	3,350

VACUUM VALVE G



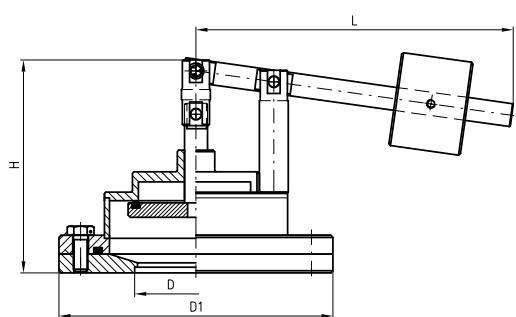
ORDERING NUMBER

PRODUCT No. DN

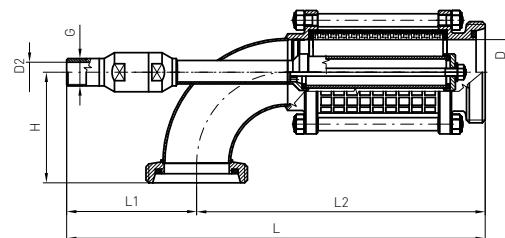
D D1 H L

7450 0	50	52	140	137	170
7450 0	65	70	160	140	200
7450 0	80	85	190	147	220
7450 0	100	104	210	149	255
7450 0	125	129	235	158	265
7450 0	150	154	270	163	300

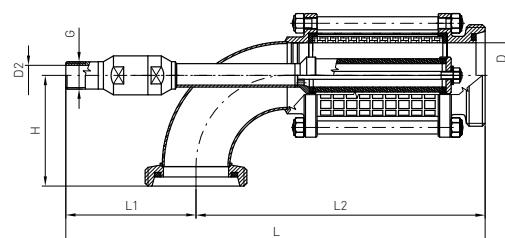
VACUUM VALVE WITH WEIGHT



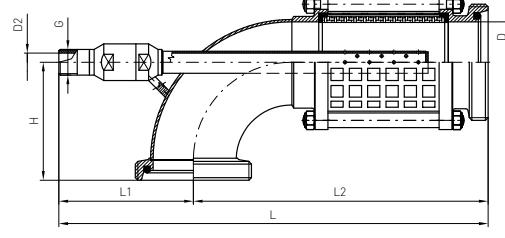
ORDERING NUMBER		SATURATION PLUG, CERAMIC INSERT						
PRODUCT No.	DN	D	D2	H	L	L1	L2	G
7511 0	025	25	9	65	255	85	170	1/4"
7511 0	032	32	9	87	265	90	175	1/4"
7511 0	040	38	9	87	280	90	190	1/4"
7511 0	050	49	15	90	320	100	220	1/2"
7511 0	065	66	15	97	343	110	233	1/2"
7511 0	080	81	15	109	392	114	278	1/2"



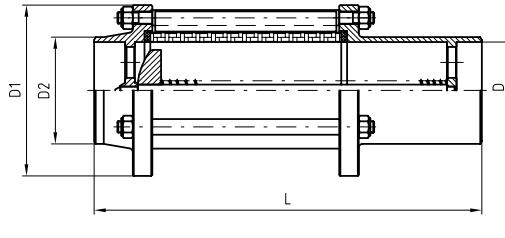
ORDERING NUMBER		SATURATION PLUG, SINTERED STEEL INSERT						
PRODUCT No.	DN	D	D2	H	L	L1	L2	G
7521 0	025	25	9	65	255	85	170	1/4"
7521 0	032	32	9	87	265	90	175	1/4"
7521 0	040	38	9	87	280	90	190	1/4"
7521 0	050	49	15	90	320	100	220	1/2"
7521 0	065	66	15	97	343	110	233	1/2"
7521 0	080	81	15	109	392	114	278	1/2"

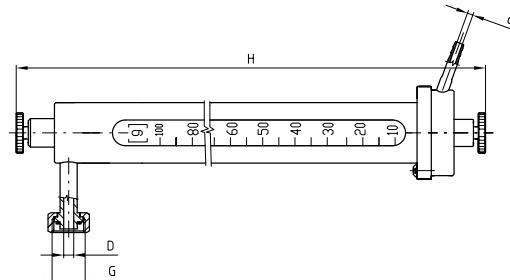
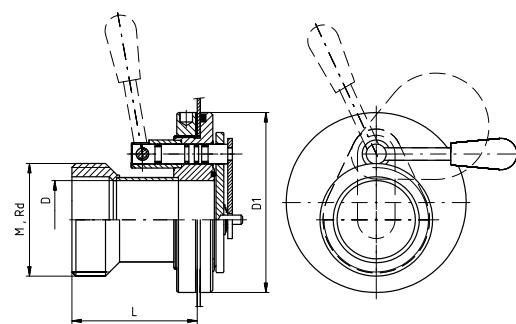
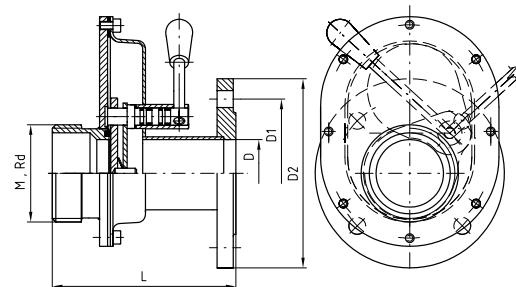


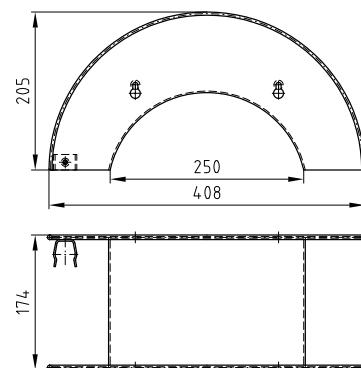
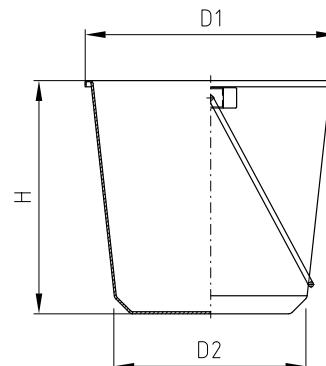
ORDERING NUMBER		AERATION PLUG						
PRODUCT No.	DN	D	D2	H	L	L1	L2	G
7531 0	025	25	9	65	255	85	170	1/4"
7531 0	032	32	9	87	265	90	175	1/4"
7531 0	040	38	9	87	280	90	190	1/4"
7531 0	050	49	15	90	320	100	220	1/2"
7531 0	065	66	15	97	343	110	233	1/2"
7531 0	080	81	15	109	392	114	278	1/2"



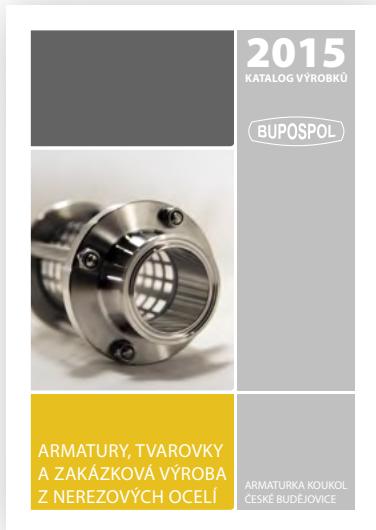
ORDERING NUMBER		FLOW-METER						
PRODUCT No.	DN	D	D1	D2	L	m³/h	Rd×S	kg
7630 0	25 G/G	26	58	31	169	1,5-7	52×1/6"	0,780
7630 0	25 S/S	26	58	31	153	1-4		0,600
7630 0	25 S/S	26	58	31	153	0,5-2		0,600
7630 0	40 G/G	38	79	43	188	7-11	65×1/6"	1,320
7630 0	40 S/S	38	79	43	179	5-8,5		1,000
7630 0	40 S/S	38	79	43	179	3-6		1,000
7630 0	50 G/G	50	88	55	213	9-16	78×1/6"	1,850
7630 0	50 S/S	50	88	55	196	6-12		1,400
7630 0	50 S/S	50	88	55	196	4,5-8,5		1,400





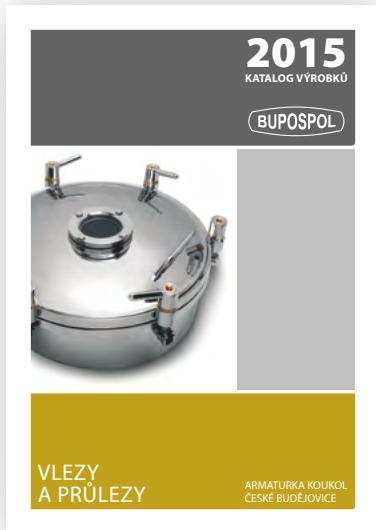


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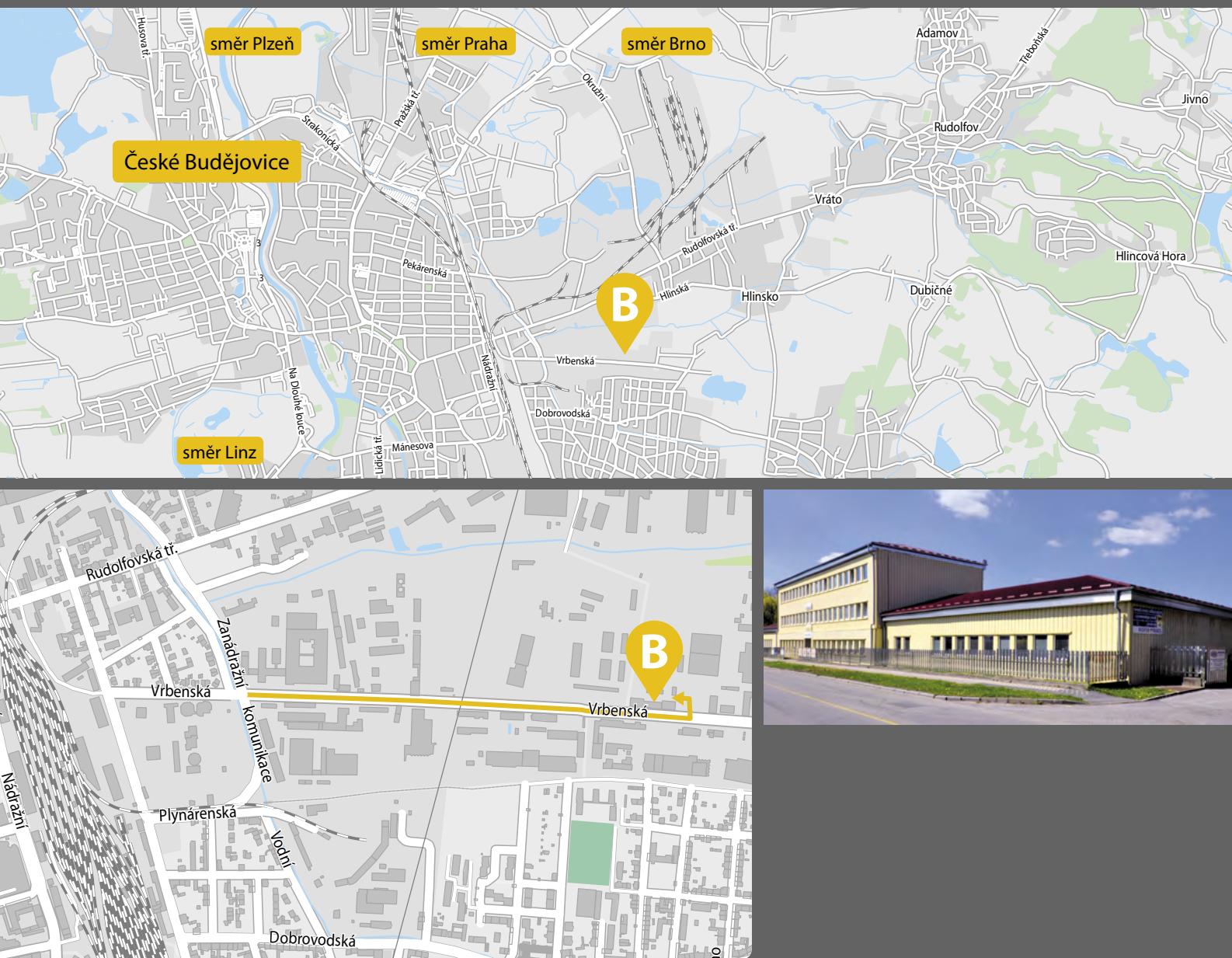
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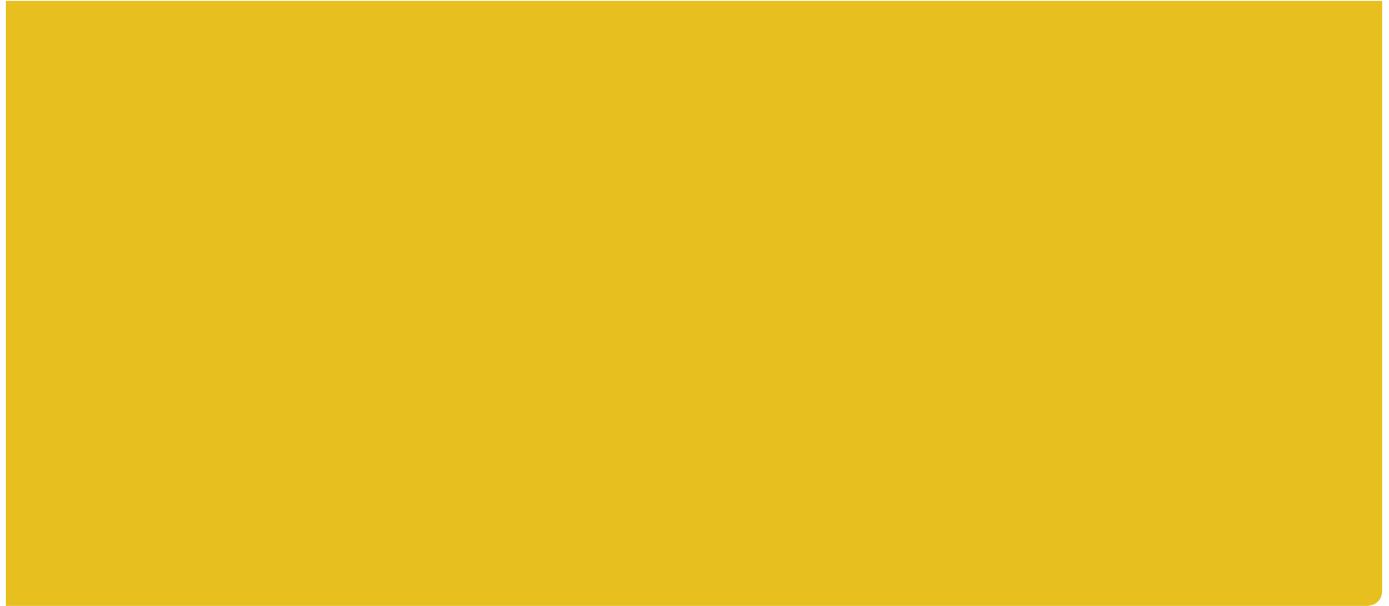
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