

SALES REPRESENTATION AGREEMENT

This AGREEMENT is made as of the 12.04.2013, by and between Bolton d.o.o , whose address is Kolubarska 1 Belgrade Serbia, hereinafter referred to as "Sales Representative" and Niob fluid_s.r.o , whose address is Ostrožská1003 Hluk Czech Republik, hereinafter referred to as " Company".

WHEREAS, Niob fluid s.r.o. is engaged in the business of production ,and
WHEREAS, Bolton d.o.o_wishes to engage Sales Representative to provide sales solicitation, installation, training and other services.

NOW THEREFORE, it is agreed as follows:

Company hereby appoints Sales Representative as an authorized independent representative to sell and promote all services provided by Company in the following geographical area former Yugoslavia republic (Serbia, Bosnia and Hercegovina, Montenegro, Macedonia) hereinafter referred to as "Territory".

In making this appointment, Sales Representative is and shall remain an independent contractor. This agreement shall not constitute a partnership, joint venture, co-ownership or otherwise. Sales Representative shall not create or assume any obligation on behalf of Company for any purpose whatsoever. Sales Representative is not an employee of Company and is not entitled to any employee benefits. Sales Representative shall be responsible for paying all income taxes and other taxes charged to Sales Representative on amounts earned hereunder. All financial and other obligations associated with Sales Representative's business are the sole responsibility of Sales Representative.

Sales Representative shall not represent that Sales Representative has the power or authority to enter into any agreements or contractual obligations on behalf of Company unless Company provides a separate letter of authorization authorizing Sales Representative to execute agreements on behalf of Company.

Company agrees to provide Sales Representative, at no cost, written materials relating to the Products necessary to support product promotion and sales efforts.

Company agrees to respond, at no cost and within reasonable time, to requests for price and delivery of the Products covered by this Agreement.

In the event that any portion of this Agreement is found to be void, illegal or unenforceable, the validity and enforceability of any other portion shall not be affected.

Miroslav Škubal



NIOB FLUID s..r.o.

 niob fluid s.r.o.

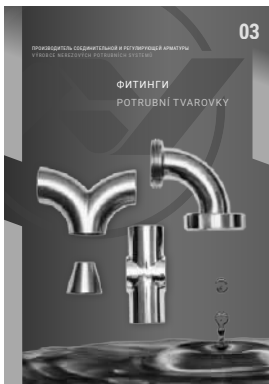
687 25 HLUK, Ostrožská 1003
ČESKÁ REPUBLIKA
DIČ: CZ22712541



02 PIPE UNIONS
ROHRVERBINDUNGEN



03 FITTINGS
ROHRFORMSTÜCKE



04 VALVES AND COCKS
VENTILE UND HÄHNE



05 SPECIAL FITTINGS AND PARTS
SPEZI ALARMATUREN UND TEILE



06 MANWAYS AND MANHOLES
HERSTELLER VON EDELSTAHLARMATUREN



07 ACCESSORIES
ZUBEHÖR



08 DOUBLE-WALLED PIPING SYSTEMS
DOPPELWANDIGE ROHRSYSTEME



HERSTELLER VON EDELSTAHLARMATUREN

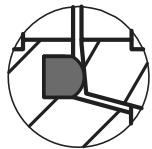
PIPE UNION
ROHRVERBINDUNGEN



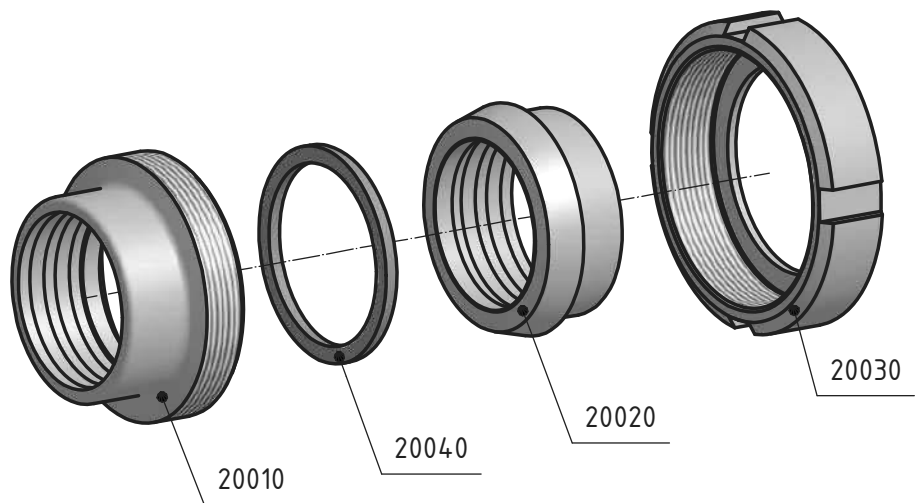
Pipe unions Rohrverbindungen

Expanding union Einwalzverschraubung	20090	Description Beschreibung
	DIN 11 851	
		<p>Expanding union 20090, DIN 11 851</p> <ul style="list-style-type: none"> - Simple instalation - Easy gasket exchange <p>Einwalzverschraubung 20090, DIN 11 851</p> <ul style="list-style-type: none"> - Einfache die Dichtung austauschen - Einfache Installation <p>Dimensions/Baumaße: DN 10 - DN 150</p> <p>Thread / Gewinde: DIN 405</p> <p>Material / Material: 1.4301 (AISI 304) 1.4404 (AISI 316L)</p> <p>Gasket / Dichtung: NBR EPDM Viton Silikon PTFE</p>

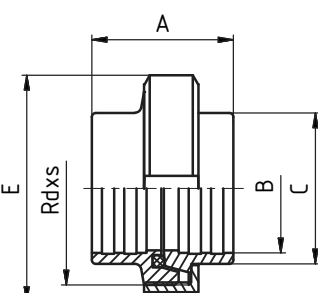
Komponents / Komponenten



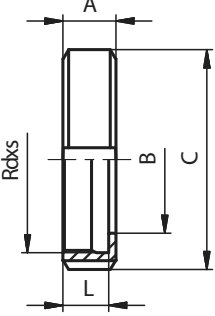
Detail gasket
Detail der Dichtung

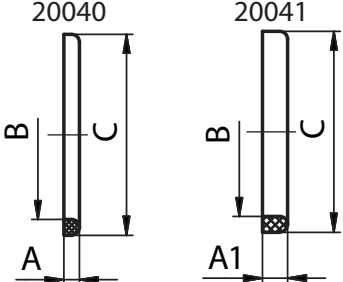


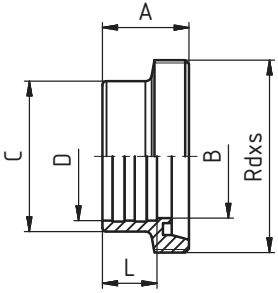
Standard gasket / Standard dichtung - NBR

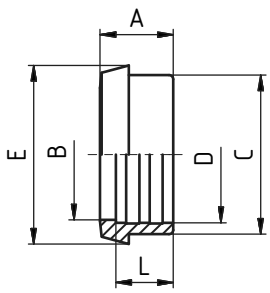
Expanding union - complete Einwalzverschraubung - komplett	20090	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	25	45	28,2	35		63					52x1/6"	0,16
	32	51	34,2	41		70					58x1/6"	0,19
	40	53	40,3	48		78					65x1/6"	0,24
	50	57	52,3	61		92					78x1/6"	0,34
	65	65	70,4	79		112					95x1/6"	0,51
	80	75	85,4	93		127					110x1/4"	0,72
	100	89	105	114		148					130x1/4"	1,05

Pipe unions Rohrverbindungen

Nut Nutmutter	20030	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	18	19	38					15	28x1/8"	0,07
		15	18	25	44					15	34x1/8"	0,08
		20	20	31	54					17	44x1/6"	0,14
		25	21	36	63					18	52x1/6"	0,18
		32	21	42	70					18	58x1/6"	0,22
		40	21	49	78					18	65x1/6"	0,25
		50	22	62	92					19	78x1/6"	0,33
		65	25	80	112					21	95x1/6"	0,55
		80	29	94	127					25	110x1/4"	0,80
		100	31	115	148					26	130x1/4"	1,08
		125	35	138	178					30	160x1/4"	1,45
		150	40	164	210					34	190x1/4"	1,88

Gasket Dichtring	20040	20041	Dimensions • Baumaße											
	DIN 11 851		DN	A	A1	B	C	E	F	R	L	thread DIN 405 Rd x s	kg	
			10	4	-	12	20						0,0012	
			15	4	-	18	26							0,0016
			20	4	-	23	33							0,0026
			25	5	8	30	40							0,0036
			32	5	8	36	46							0,0040
			40	5	8	42	52							0,0048
			50	5	8	54	64							0,0062
			65	5	8	71	81							0,0070
			80	5	8	85	95							0,0080
			100	6	8	104	114							0,0134
			125	7	8	130	142							0,0236
			150	7	8	155	167							0,0276

Expanding male Einwalzgewindestutzen	20010	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		25	29	26	35	28,2				15	52x1/6"	0,16
		32	32	32	41	34,2				18	58x1/6"	0,19
		40	33	38	48	40,3				20	65x1/6"	0,24
		50	35	50	61	52,3				22	78x1/6"	0,34
		65	40	66	79	70,4				25	95x1/6"	0,51
		80	45	81	93	85,4				28	110x1/4"	0,72
		100	54	100	114	105				35	130x1/4"	1,05

Expanding liner Einwalzkegelstutzen	20020	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		25	22	26	35	28,2	44			15		0,09
		32	25	32	41	34,2	50			18		0,12
		40	26	38	48	40,3	56			20		0,15
		50	28	50	61	52,3	68,5			22		0,22
		65	32	66	79	70,4	86			25		0,32
		80	37	81	93	85,4	100			28		0,40
		100	44	100	114	105	121			35		0,68

Pipe unions Rohrverbindungen

Welding union
Anschweißverschraubung

20120
DIN 11 851

Description
Beschreibung



Expanding union 20120, DIN 11 851

- Simple installation
- Easy gasket exchange

Einwalverschraubung 20120, DIN 11 851

- Einfache die Dichtung austauschen
- Einfache Installation

Dimensions/Baumaße: DN 10 - DN 150

Thread / Gewinde: DIN 405

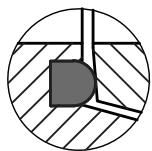
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtung: NBR
EPDM
Viton
Silikon
PTFE

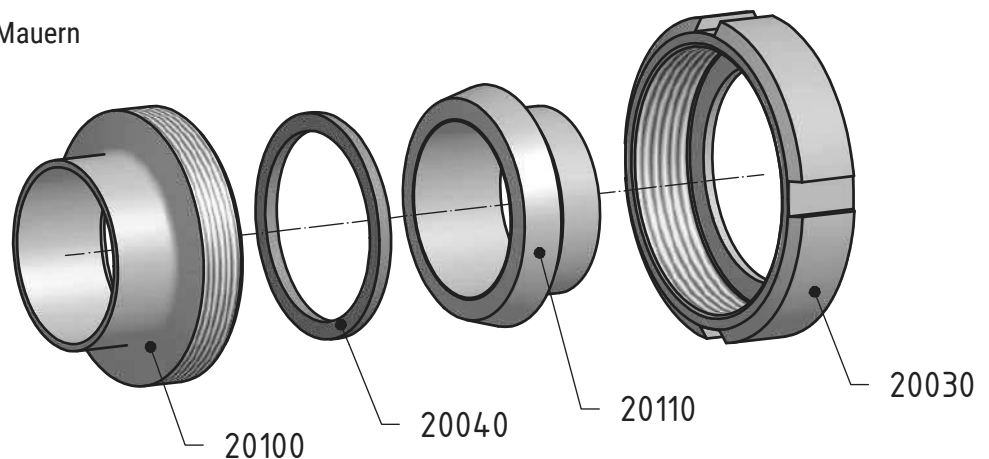
Komponents / Komponenten

Strength of the walls / Stärke der Mauern

DN 10	1,5 mm
DN 15 - 50	2,5 mm
DN 65 - 100	3,0 mm
DN 125 - 150	3,5 mm



Detail gasket
Detail der Dichtung



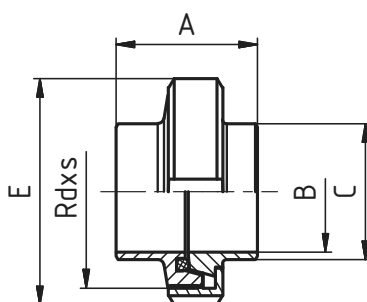
Standard gasket / Standard dichtung - NBR

Welding union - complete
Anschweißverschraubung - komplett

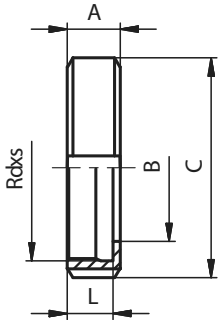
20120

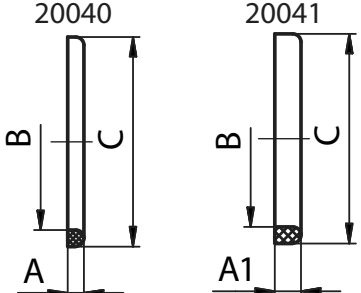
Dimensions • Baumaße

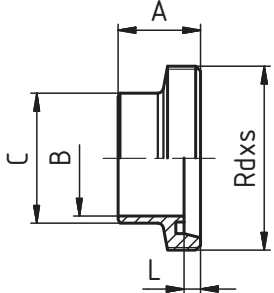
DIN 11 851

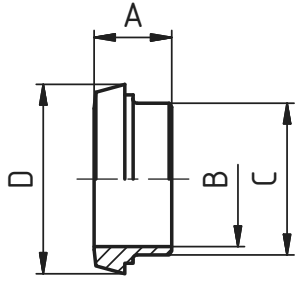


DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	35	10	15		38				28 x 1/8"	0,17
15	35	16	21		44				34 x 1/8"	0,18
20	37	20	25		54				44 x 1/6"	0,32
25	45	26	31		63				52 x 1/6"	0,40
32	51	32	37		70				58 x 1/6"	0,49
40	53	38	43		78				65 x 1/6"	0,58
50	57	50	55		92				78 x 1/6"	0,84
65	65	66	72		112				95 x 1/6"	1,15
80	75	81	87		127				110 x 1/4"	1,74
100	89	100	106		148				130 x 1/4"	2,46
125	69	125	132		178				160 x 1/4"	3,52
150	74	150	157		210				190 x 1/4"	4,74

Nut Nutmutter	20030	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	18	19	38					15	28 x 1/8"	0,07
		15	18	25	44					15	34 x 1/8"	0,08
		20	20	31	54					17	44 x 1/6"	0,14
		25	21	36	63					18	52 x 1/6"	0,18
		32	21	42	70					18	58 x 1/6"	0,22
		40	21	49	78					18	65 x 1/6"	0,25
		50	22	62	92					19	78 x 1/6"	0,33
		65	25	80	112					21	95 x 1/6"	0,55
		80	29	94	127					25	110 x 1/4"	0,80
		100	31	115	148					26	130 x 1/4"	1,08
		125	35	138	178					30	160 x 1/4"	1,45
		150	40	164	210					34	190 x 1/4"	1,88

Gasket Dichtring	20040	20041	Dimensions • Baumaße										
	DIN 11 851		DN	A	A1	B	C	E	F	R	L	thread DIN 405 Rd x s	kg
			10	4	-	12	20						0,0012
			15	4	-	18	26						0,0016
			20	4	-	23	33						0,0026
			25	5	8	30	40						0,0036
			32	5	8	36	46						0,0012
			40	5	8	42	52						0,0048
			50	5	8	54	64						0,0062
			65	5	8	71	81						0,0070
			80	5	8	85	95						0,0080
			100	6	8	104	114						0,0134
			125	7	8	130	142						0,0236
			150	7	8	155	167						0,0276

Welding male Anschweißgewindestutzen	20100	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	21	10	15					4	28 x 1/8"	0,044
		15	21	16	21					4	34 x 1/8"	0,046
		20	24	20	25					6	44 x 1/6"	0,084
		25	29	26	31					7	52 x 1/6"	0,104
		32	32	32	37					7	58 x 1/6"	0,112
		40	33	38	43					7	65 x 1/6"	0,164
		50	35	50	55					7	78 x 1/6"	0,296
		65	40	66	72					8	95 x 1/6"	0,280
		80	45	81	87					8	110 x 1/4"	0,540
		100	54	100	106					10	130 x 1/4"	0,780
		125	46	125	132					12	160 x 1/4"	1,140
		150	50	150	157					13	190 x 1/4"	1,800

Welding liner Anschweißkegelstutzen	20110	Dimensions • Baumaße											
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg	
		10	17	10	15	22,5						0,060	
		15	17	16	21	28,5							0,062
		20	18	20	25	36,5							0,100
		25	22	26	31	44							0,120
		32	25	32	37	50							0,160
		40	26	38	43	56							0,165
		50	28	50	55	68,5							0,220
		65	32	66	72	86							0,320
		80	37	81	87	100							0,400
		100	44	100	106	121							0,600
		125	34	125	132	150							0,930
		150	37	150	157	176							1,060

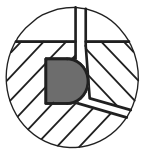
Pipe unions Rohrverbindungen

Welding union - Type "R" Anschweißverschraubung - Typ "R"	20120 R	Description Beschreibung
	DIN 11 851	
		Welding union 20120 - R, DIN 11 851 - Simple installation - Easy gasket exchange Anschweißverschraubung 20120 - R, DIN 11 851 - Einfache die Dichtung austauschen - Einfache Installation Dimensions/Baumaße: DN 10 - DN 150 Thread / Gewinde: DIN 405 Material / Material: 1.4301 (AISI 304) 1.4404 (AISI 316L) Gasket / Dichtung: NBR EPDM Viton Silikon PTFE

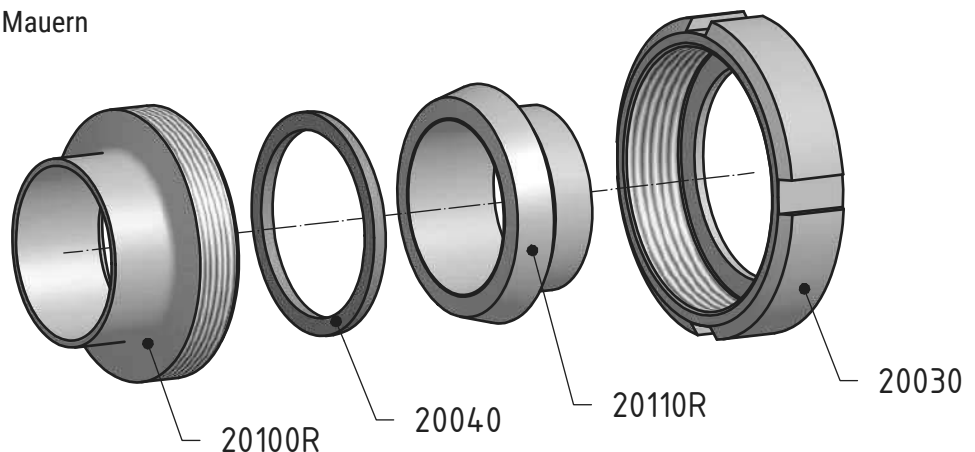
Komponents / Komponenten

Strength of the walls / Stärke der Mauern

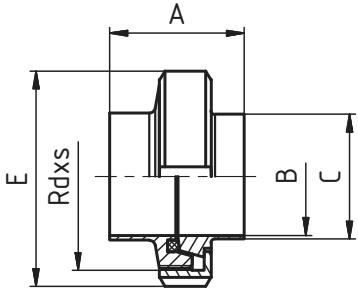
DN 10 - 50 1,5 mm
 DN 50 - 150 2,0 mm



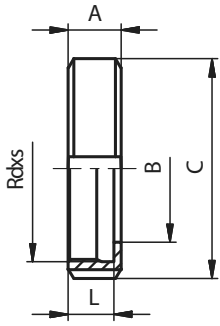
Detail gasket
Detail der Dichtung

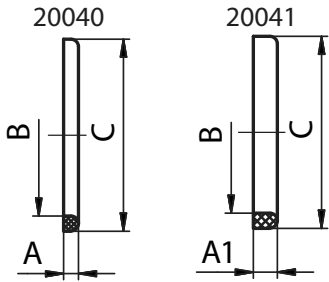


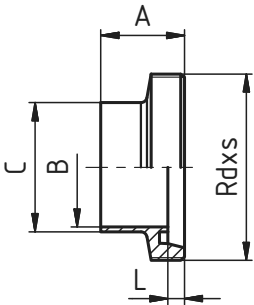
Standard gasket / Standard dichtung - NBR

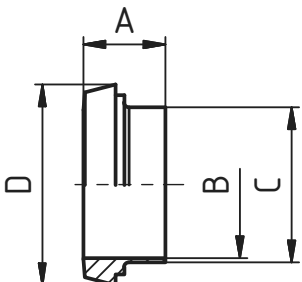
Welding union - complete Anschweißverschraubung - komplett	20120 R	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	35	10	13		38					28 x 1/8"	0,13
	15	35	16	19		44					34 x 1/4"	0,16
	20	37	20	23		54					44 x 1/6"	0,28
	25	45	26	29		63					52 x 1/6"	0,37
	32	51	32	35		70					58 x 1/6"	0,45
	40	53	38	41		78					65 x 1/6"	0,53
	50	57	50	53		92					78 x 1/6"	0,67
	65	65	66	70		112					95 x 1/6"	1,19
	80	75	81	85		127					110 x 1/4"	1,67
	100	89	100	104		148					130 x 1/4"	2,32
125	69	125	129		178					160 x 1/4"	3,21	
150	74	150	154		210					190 x 1/4"	4,60	

Pipe unions Rohrverbindungen

Nut Nutmutter	20030	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	18	19	38					15	28 x 1/8"	0,07
		15	18	25	44					15	34 x 1/8"	0,08
		20	20	31	54					17	44 x 1/6"	0,14
		25	21	36	63					18	52 x 1/6"	0,18
		32	21	42	70					18	58 x 1/6"	0,22
		40	21	49	78					18	65 x 1/6"	0,25
		50	22	62	92					19	78 x 1/6"	0,33
		65	25	80	112					21	95 x 1/6"	0,55
		80	29	94	127					25	110 x 1/4"	0,80
		100	31	115	148					26	130 x 1/4"	1,08
		125	35	138	178					30	160 x 1/4"	1,45
		150	40	164	210					34	190 x 1/4"	1,88

Gasket Dichtring	20040	20041	Dimensions • Baumaße										
	DIN 11 851		DN	A	A1	B	C	E	F	R	L	thread DIN 405 Rd x s	kg
			10	4	-	12	20						0,0012
			15	4	-	18	26						0,0016
			20	4	-	23	33						0,0026
			25	5	8	30	40						0,0036
			32	5	8	36	46						0,0012
			40	5	8	42	52						0,0048
			50	5	8	54	64						0,0062
			65	5	8	71	81						0,0070
			80	5	8	85	95						0,0080
			100	6	8	104	114						0,0134
			125	7	8	130	142						0,0236
			150	7	8	155	167						0,0276

Welding male Anschweißgewindestutzen	20100 R	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	21	10	13					4	28 x 1/8"	0,04
		15	21	16	19					4	34 x 1/8"	0,05
		20	24	20	23					6	44 x 1/6"	0,09
		25	29	26	29					7	52 x 1/6"	0,11
		32	32	32	35					7	58 x 1/6"	0,13
		40	33	38	41					7	65 x 1/6"	0,16
		50	35	50	53					7	78 x 1/6"	0,22
		65	40	66	70					8	95 x 1/6"	0,35
		80	45	81	85					8	110 x 1/4"	0,52
		100	54	100	104					10	130 x 1/4"	0,67
		125	46	125	129					12	160 x 1/4"	0,99
		150	50	150	154					13	190 x 1/4"	1,71

Welding liner Anschweißkegelstutzen	20110 R	Dimensions • Baumaße											
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg	
		10	17	10	13	22,5						0,02	
		15	17	16	19	28,5							0,03
		20	18	20	23	36,5							0,06
		25	22	26	29	44							0,08
		32	25	32	35	50							0,10
		40	26	38	41	56							0,12
		50	28	50	53	68,5							0,17
		65	32	66	70	86							0,29
		80	37	81	85	100							0,35
		100	44	100	104	121							0,57
		125	34	125	129	150							0,77
		150	37	150	154	176							1,01

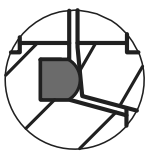
Pipe unions Rohrverbindungen

Welding union - Type "T" Anschweißverschraubung - Typ "T"	20120 T	Description
		Beschreibung
		Welding union 20120 - T, DIN 11 851 - Simple instalation - Easy gasket exchange Anschweißverschraubung 20120 - T, DIN 11 851 - Einfache die Dichtung austauschen - Einfache Installation Dimensions/Baumaße: DN 10 - DN 150 Thread / Gewinde: DIN 405 Material / Material: 1.4301 (AISI 304) 1.4404 (AISI 316L) Gasket / Dichtung: NBR EPDM Viton Silikon PTFE

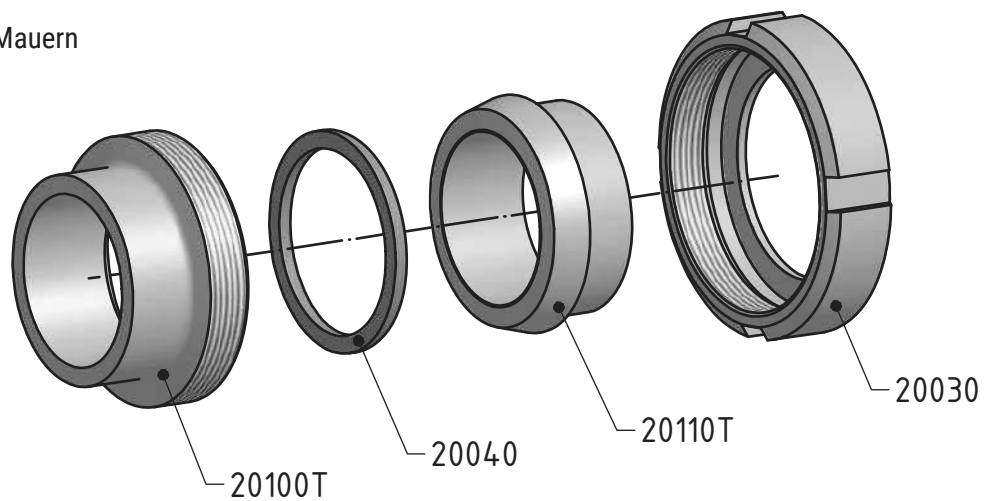
Komponents / Komponenten

Strength of the walls / Stärke der Mauern

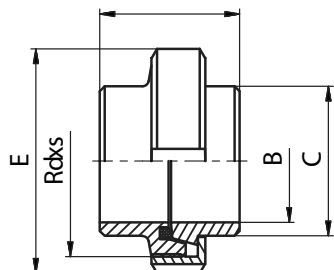
DN 10 - 15	4,0 mm
DN 20	5,0 mm
DN 25 - 32	4,5 mm
DN 40	5,0 mm
DN 50	5,5 mm
DN 65	6,5 mm
DN 80	6,0 mm
DN 100	7,0 mm



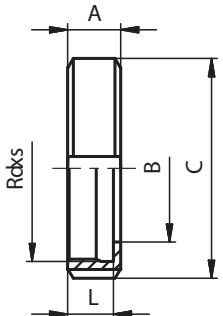
Detail gasket
Detail der Dichtung

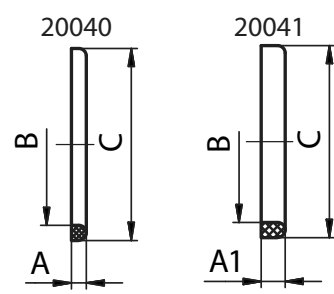


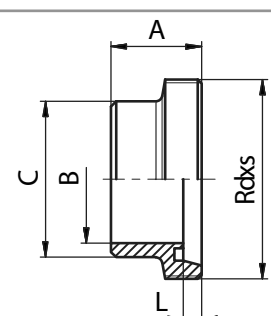
Standard gasket / Standard dichtung - NBR

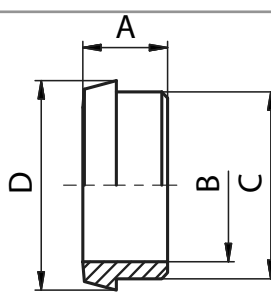
Welding union - complete Anschweißverschraubung - komplett	20120 T	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	35	10	18		38					28x1/8"	0,19
	15	35	16	24		44					34x1/4"	0,19
	20	37	20	30		54					44x1/6"	0,34
	25	45	26	35		63					52x1/6"	0,45
	32	51	32	41		70					58x1/6"	0,57
	40	53	38	48		78					65x1/6"	0,69
	50	57	50	61		92					78x1/6"	0,96
	65	65	66	79		112					95x1/6"	1,58
	80	75	81	93		127					110x1/4"	2,20
	100	89	100	114		148					130x1/4"	3,12

Pipe unions Rohrverbindungen

Nut Nutmutter	20030	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	18	19	38					15	28x1/8"	0,07
		15	18	25	44					15	34x1/8"	0,08
		20	20	31	54					17	44x1/6"	0,14
		25	21	36	63					18	52x1/6"	0,18
		32	21	42	70					18	58x1/6"	0,22
		40	21	49	78					18	65x1/6"	0,25
		50	22	62	92					19	78x1/6"	0,33
		65	25	80	112					21	95x1/6"	0,55
		80	29	94	127					25	110x1/4"	0,80
		100	31	115	148					26	130x1/4"	1,08
		125	35	138	178					30	160x1/4"	1,45
		150	40	164	210					34	190x1/4"	1,88

Gasket Dichtring	20040	20041	Dimensions • Baumaße										
	DIN 11 851		DN	A	A1	B	C	E	F	R	L	thread DIN 405 Rd x s	kg
			10	4	-	12	20						0,0012
			15	4	-	18	26						0,0016
			20	4	-	23	33						0,0026
			25	5	8	30	40						0,0036
			32	5	8	36	46						0,0040
			40	5	8	42	52						0,0048
			50	5	8	54	64						0,0062
			65	5	8	71	81						0,0070
			80	5	8	85	95						0,0080
			100	6	8	104	114						0,0134
			125	7	8	130	142						0,0236
			150	7	8	155	167						0,0276

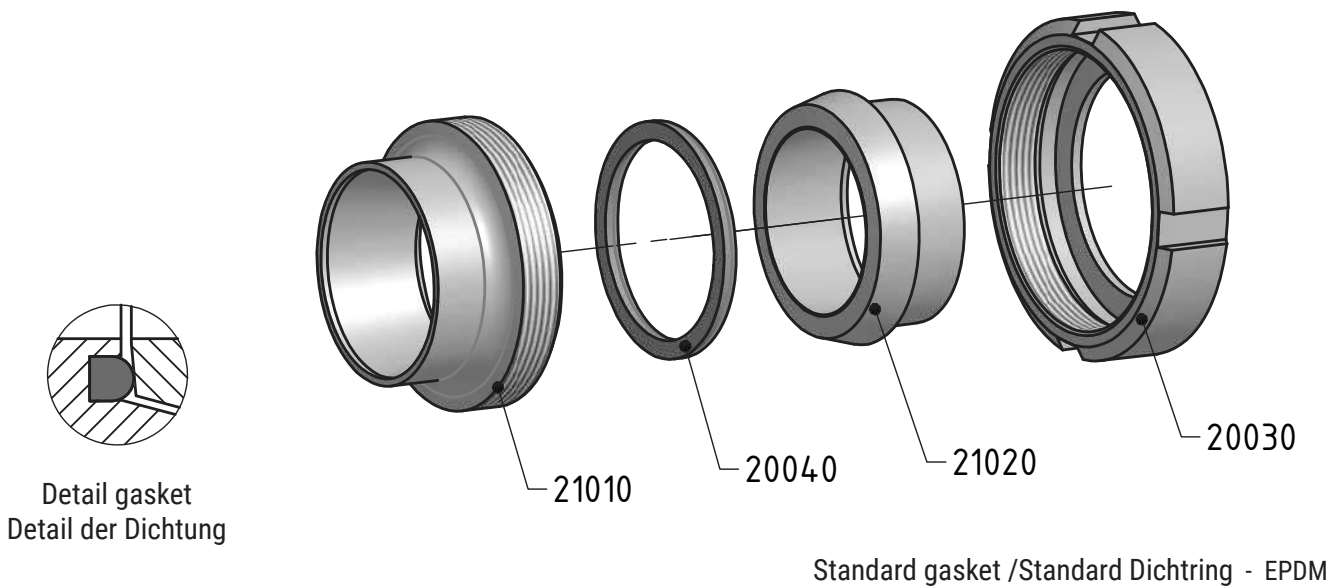
Welding male Anschweißgewindestutzen	20100 T	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	21	10	18					4	28x1/8"	0,05
		15	21	16	24					4	34x1/8"	0,07
		20	24	20	30					6	44x1/6"	0,13
		25	29	26	35					7	52x1/6"	0,17
		32	32	32	41					7	58x1/6"	0,21
		40	33	38	48					7	65x1/6"	0,27
		50	35	50	61					7	78x1/6"	0,38
		65	40	66	79					8	95x1/6"	0,61
		80	45	81	93					8	110x1/4"	0,86
		100	54	100	114					10	130x1/4"	1,15

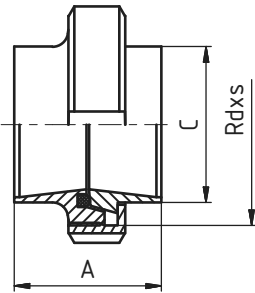
Welding liner Anschweißkegelstutzen	20110 T	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	17	10	18	22,5						0,03
		15	17	16	24	28,5						0,04
		20	18	20	30	36,5						0,07
		25	22	26	35	44						0,10
		32	25	32	41	50						0,14
		40	26	38	48	56						0,17
		50	28	50	61	68,5						0,25
		65	32	66	79	86						0,42
		80	37	81	93	100						0,54
		100	44	100	114	121						0,89

Pipe unions Rohrverbindungen

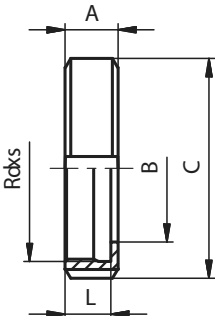
Welding union ISO Anschweißverschraubung ISO	21030	Description Beschreibung
	ISO	
		<p>Welding union 21030 ISO</p> <ul style="list-style-type: none"> - Simple installation - Easy gasket exchange <p>Anschweißverschraubung 21030 ISO</p> <ul style="list-style-type: none"> - Einfache die Dichtung austauschen - Einfache Installation <p>Dimensions/Baumaße: DN 10 - DN 150</p> <p>Thread / Gewinde: DIN 405</p> <p>Material / Material: 1.4301 (AISI 304) 1.4404 (AISI 316L)</p> <p>Gasket / Dichtung: NBR EPDM Viton Silikon PTFE</p>

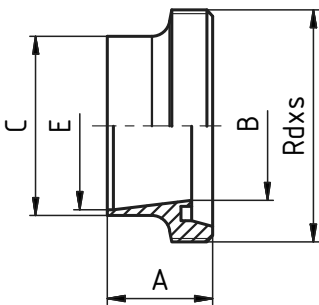
Komponents / Komponenten

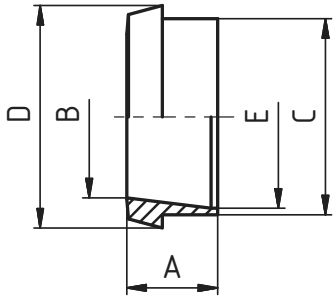


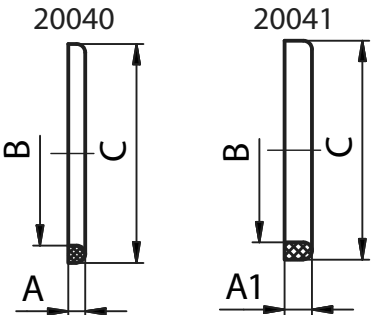
Welding union - complete ISO Anschweißverschraubung - komplett ISO	21030	Dimensions • Baumaße										
	ISO	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	34		18						28x1/8"	0,15
		15	34		21,3						34x1/8"	0,18
		20	36		26,9						44x1/6"	0,30
		25	45		33,7						52x1/6"	0,42
		32	51		42,4						58x1/6"	0,51
		40	53		48,3						65x1/6"	0,61
		50	57		60,3						78x1/6"	0,84
		65	65		76,1						95x1/6"	1,31
		80	75		88,9						110x1/4"	1,80
		100	89		114,3						130x1/4"	2,66

Pipe unions Rohrverbindungen

Nut Nutmutter	20030	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	18	19	38					15	28x1/8"	0,07
		15	18	25	44					15	34x1/8"	0,08
		20	20	31	54					17	44x1/6"	0,14
		25	21	36	63					18	52x1/6"	0,18
		32	21	42	70					18	58x1/6"	0,22
		40	21	49	78					18	65x1/6"	0,25
		50	22	62	92					19	78x1/6"	0,33
		65	25	80	112					21	95x1/6"	0,55
		80	29	94	127					25	110x1/4"	0,80
		100	31	115	148					26	130x1/4"	1,08
		125	35	138	178					30	160x1/4"	1,45
		150	40	164	210					34	190x1/4"	1,88

Welding male ISO Anschweißgewindestutzen ISO	21010	Dimensions • Baumaße										
	ISO	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	21	10	18		14			4	28x1/8"	0,04
		15	21	16	21,3		18,1			4	34x1/8"	0,05
		20	24	20	26,9		23,7			6	44x1/6"	0,10
		25	29	26	33,7		29,7			7	52x1/6"	0,13
		32	32	32	42,4		38,4			7	58x1/6"	0,16
		40	33	38	48,3		44,3			7	65x1/6"	0,21
		50	35	50	60,3		56,3			7	78x1/6"	0,30
		65	40	66	76,1		71,5			8	95x1/6"	0,45
		80	45	81	88,9		84,3			8	110x1/4"	0,60
		100	54	100	114,3		109,1			10	130x1/4"	0,78

Welding liner ISO Anschweißkegelstutzen ISO	21020	Dimensions • Baumaße										
	ISO	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	17	10	18	22,5	14					0,02
		15	17	16	21,3	28,5	18,1					0,03
		20	18	20	26,9	36,5	23,7					0,06
		25	22	26	33,7	44	29,7					0,09
		32	25	32	42,4	50	38,4					0,11
		40	26	38	48,3	56	44,3					0,14
		50	28	50	60,3	68,5	56,3					0,21
		65	32	66	76,1	86	71,5					0,32
		80	37	81	88,9	100	84,3					0,39
		100	44	100	114,3	121	109,1					0,59

Gasket Dichtring	20040	20041	Dimensions • Baumaße									
	DIN 11 851	DN	A	A1	B	C	E	F	R	L	thread DIN 405 Rd x s	kg
		10	4	-	12	20						0,0012
		15	4	-	18	26						0,0016
		20	4	-	23	33						0,0026
		25	5	8	30	40						0,0036
		32	5	8	36	46						0,0040
		40	5	8	42	52						0,0048
		50	5	8	54	64						0,0062
		65	5	8	71	81						0,0070
		80	5	8	85	95						0,0080
		100	6	8	104	114						0,0134
		125	7	8	130	142						0,0236
		150	7	8	155	167						0,0276

Pipe unions Rohrverbindungen

Welding union SMS
Anschweißverschraubung SMS

21120

Description
Beschreibung

SMS



Welding union SMS 21120

- Simple installation
- Easy gasket exchange

Anschweißverschraubung SMS 21120

- Einfache die Dichtung austauschen
- Einfache Installation

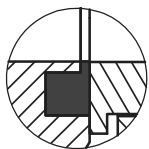
Dimensions / Baumaße: DN 10 - DN 150

Thread / Gewinde: DIN 405

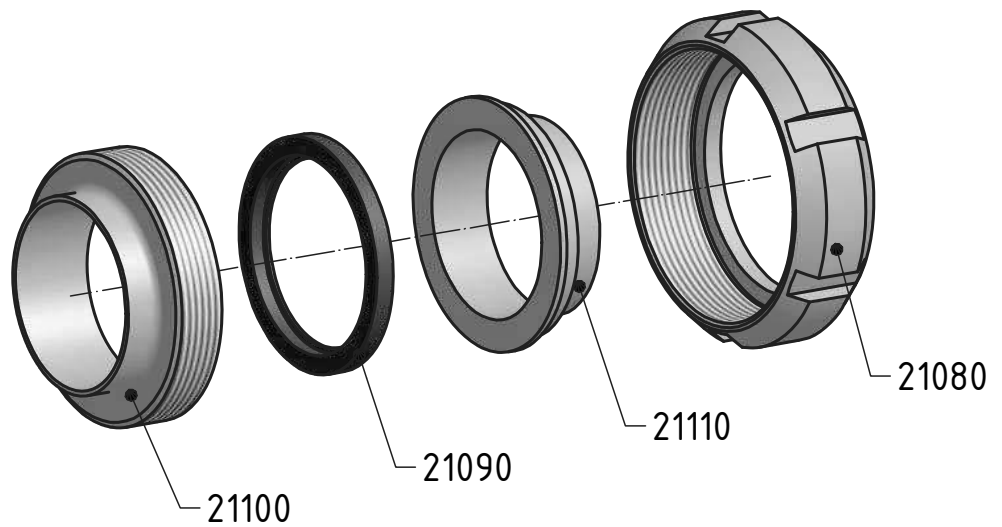
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtring: NBR
EPDM
Viton
Silikon
PTFE

Komponents / Komponenten



Detail gasket
Detail der Dichtung



Standard gasket / Standard Dichtring - EPDM

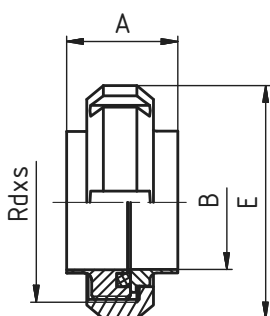
Welding union - complete
Anschweißverschraubung - komplett

21120

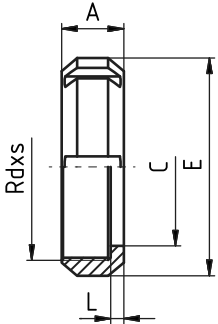
Dimensions • Baumaße

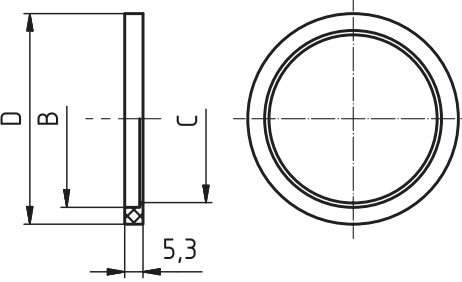
SMS

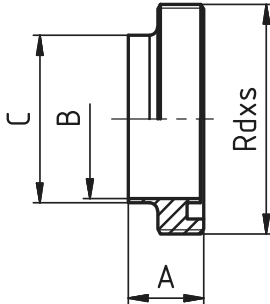
DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
25	54,5	22,5	25		51				40x1/6	0,18
38	78	35,5	38,1		74				60x1/6	0,47
51	88	48,5	51		84				70x1/6	0,55
63,5	107	60,5	63,5		100				85x1/6	0,83
76	120	72,9	76,1		114				98x1/6	1,13
101,6	148	97,6	101,6		138				125x1/4	2,78
104	148	100	104		138				125x1/4	2,78

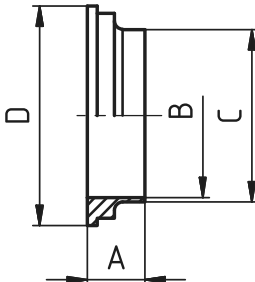


Pipe unions Rohrverbindungen

Nut SMS Nutmutter SMS	21080	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		25	19		32		51			4	40 x 1/6"	0,11
		38	23		48		74			4	60 x 1/6"	0,26
		51	24		60,5		84			5	70 x 1/6"	0,31
		63,5	28		74		100			5	85 x 1/6"	0,41
		76	30		87		114			6	98 x 1/6"	0,57
		101,6	31		113		138			5	125 x 1/4"	1,20
		104	31		113		138			5	125 x 1/4"	1,22

Gasket SMS Dichtring SMS	21090	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		25		25,1	22,8	31,8						
		38		38,1	35,8	47,8						
		51		51,1	48,8	60,8						
		63,5		63,6	61	73,3						
		76		76,1	73,4	85,8						
		104		104	100,5	115,7						

Welding male SMS Anschweißgewindestutzen SMS	21100	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		25	19	22,5	25						40x1/6	0,05
		38	23	35,5	38						60x1/6	0,17
		51	23	48,5	51						70x1/6	0,18
		63,5	27	60,5	63,5						85x1/6	0,35
		76	27	72,9	76,1						98x1/6	0,44
		101,6	30	97,6	101,6						125x1/4	1,31
		104	30	100	104						125x1/4	1,32

Welding liner SMS Anschweißkegelstutzen SMS	21110	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		25	15,5	22,5	25	35,5						0,02
		38	16	35,5	38	55						0,04
		51	17	48,5	50,8	65						0,06
		63,5	17	60,5	63,5	80						0,08
		76	19	72,9	76,1	93						0,12
		101,6	19	97,6	101,6	118						0,27
		104	19	100	104	118						0,29

Pipe unions Rohrverbindungen

Clamp union - S - DIN
Clampverbindung - S - DIN

21250
DIN 32 676

Description
Beschreibung



Clamp union - S - DIN 21250

- Simple instalation
- Easy gasket exchange

Clampverbindung - S - DIN 21250

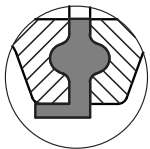
- Einfache die Dichtung austauschen
- Einfache Installation

Dimensions / Baumaße: DN 10 - DN 150

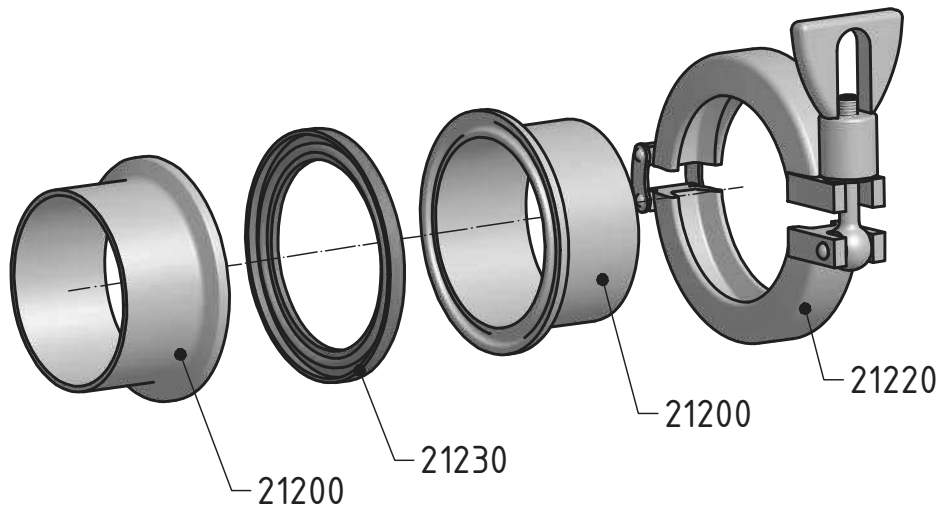
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtring: Silikon
PTFE - Viton
Viton
EPDM

Komponents / Komponenten



Detail gasket
Detail der Dichtung



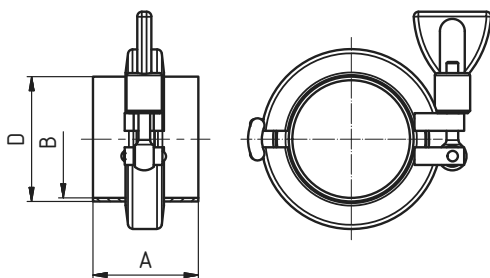
Standard gasket /Standard Dichtring - Silikon

Clamp union - S - DIN - complete
Clampverbindung - S - DIN - komplett

21250

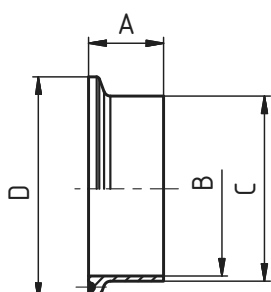
Dimensions • Baumaße

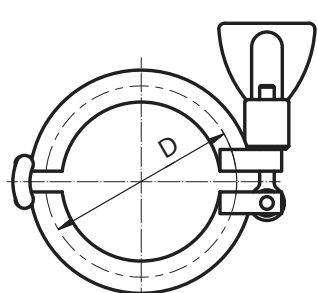
DIN 32 676

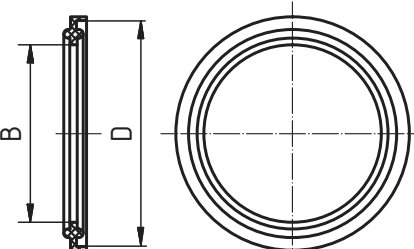


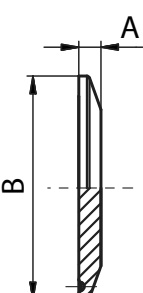
DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	38	10		13						0,28
15	38	16		19						0,28
20	38	20		23						0,30
25	45	26		29						0,35
32	45	32		35						0,35
40	45	38		41						0,37
50	45	50		53						0,39
65	58	66		70						0,89
80	58	81		85						0,95
100	58	100		104						0,99
125	58	125		129						1,15
150	58	150		154						1,30

Pipe unions Rohrverbindungen

Clamp ferrule - S TC-Klemmstutzen - S	21200	Dimensions • Baumaße										
	DIN 32 676	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	18	10	13	34							0,03
	15	18	16	19	34							0,03
	20	18	20	23	34							0,03
	25	21,5	26	29	50,5							0,07
	32	21,5	32	35	50,5							0,07
	40	21,5	38	41	50,5							0,07
	50	21,5	50	53	64							0,07
	65	28	66	70	91							0,10
	80	28	81	85	106							0,20
	100	28	100	104	119							0,22
	125	28	125	129	155							0,52
	150	28	150	154	183							0,70

Clamp TC-Klammer leichte Ausführung	21220	Dimensions • Baumaße							
	DIN 32 676	DN	SMS	DIN	D	DN	SMS	DIN	D
	1/2"	12,7	-	25		150	-	150	183
	3/4"	19,05	-	25		8"	-	-	217,6
	10-20	-	10-20	34		200	-	200	233,5
	1"	25	25	50,5		250	-	250	268
	32	-	32	50,5		300	-	300	318,5
	1 1/2"	38	40	50,5					
	2"	51	50	64					
	2 1/2"	63,5	-	77,5					
	3"	76,1	65	91					
	80	-	80	106					
	4"	101,6	100	119					
	125	-	125	155					
	6"	-	-	166,8					

Clamp gasket Dichtung Zoll	21230	Dimensions • Baumaße										
	DIN 32 676	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10		10,2		34							
	15		16,2		34							
	20		20,2		34							
	25		26,2		50,5							
	32		32,2		50,5							
	40		38,2		50,5							
	50		50,2		64							
	65		66,2		91							
	80		81,2		106							
	100		100,2		119							

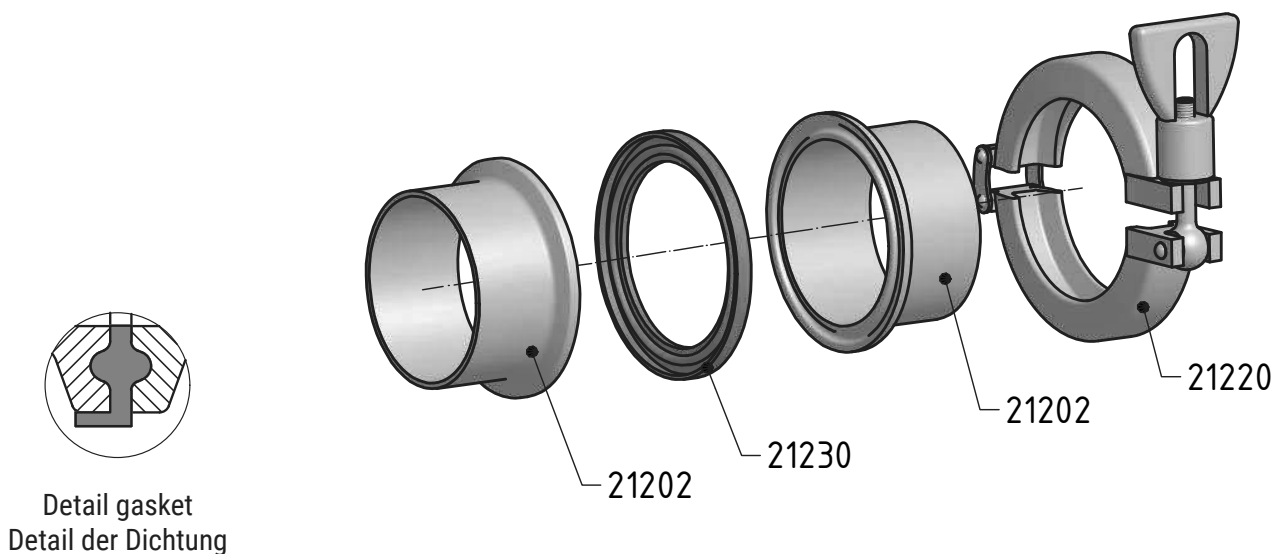
Clamp blank DIN/SMS TC-Blindklemmstutzen DIN/SMS	21240	Dimensions • Baumaße										
	DIN 32676 / SMS	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	6,35	34									0,04
	15	6,35	34									0,04
	20	6,35	34									0,04
	25	6,35	50,5									0,08
	32	6,35	50,5									0,08
	40	6,35	50,5									0,08
	50	6,35	64									0,14
	65	6,35	91									0,28
	80	6,35	106									0,46
	100	7,95	119									0,60
	125	7,95	155									1,15
	150	11,00	183									2,20

Pipe unions Rohrverbindungen

Clamp union - S - SMS Clampverbindung - S - SMS	21252	Description Beschreibung
	SMS	<p>Clamp union - S - SMS 21252</p> <ul style="list-style-type: none"> - Simple instalation - Easy gasket exchange <p>Clampverbindung - S - SMS 212552</p> <ul style="list-style-type: none"> - Einfache die Dichtung austauschen - Einfache Installation <p>Dimensions / Baumaße: DN 10 - DN 150</p> <p>Material / Material: 1.4301 (AISI 304) 1.4404 (AISI 316L)</p> <p>Gasket / Dichtring: Silikon PTFE - Viton Viton EPDM</p>



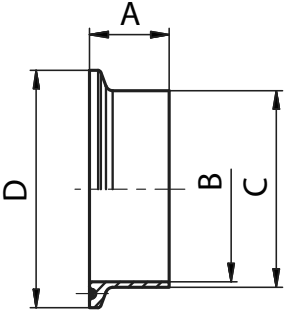
Komponents / Komponenten

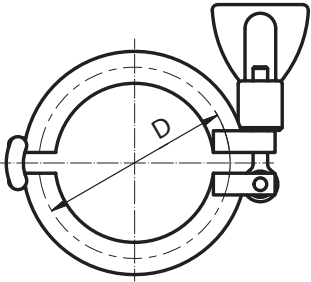


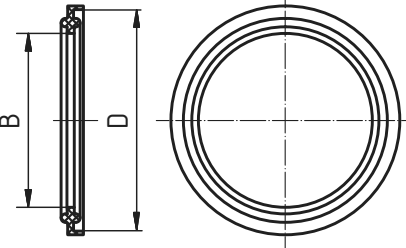
Standard gasket /Standard Dichtring - Silikon

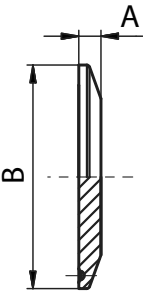
Clamp union - S - SMS - complete Clampverbindung - S - SMS - komplett	21252	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	25	43	22,5		25							0,35
	38	43	35,5		38,1							0,37
	51	43	48,5		51							0,39
	63,5	56	60,5		63,5							0,89
	76	56	72,9		76,1							0,95
	101,6	56	97,6		101,6							0,99

Pipe unions Rohrverbindungen

Clamp ferrule - S SMS TC-Klemmstutzen - S SMS	21202	Dimensions • Baumaße									
	SMS	DN - SMS	A	B	C	D	F	R	L	thread DIN 405 Rd x s	kg
	1/2" - 12,7	21,5	9,4	12,7	25						0,03
	3/4" - 19,05	21,5	15,75	19,05	25						0,03
	1" - 25	21,5	22,5	25	50,5						0,07
	1 1/2" - 38,1	21,5	35,5	38,1	50,5						0,07
	2" - 51	21,5	48,5	51	64						0,07
	2 1/2" - 63,5	28	60,5	63,5	77,5						0,1
	3" - 76,1	28	72,9	76,1	91						0,2
	4" - 101,6	28	97,6	101,6	119						0,22

Clamp SMS TC-Klammer leichte Ausführung SMS	21220	Dimensions • Baumaße							
	DIN 32 676	DN	SMS	DIN	D	DN	SMS	DIN	D
	1/2"	12,7	-	25		150	-	150	183
	3/4"	19,05	-	25		8"	-	-	217,6
	10-20	-	10-20	34		200	-	200	233,5
	1"	25	25	50,5		250	-	250	268
	32	-	32	50,5		300	-	300	318,5
	1 1/2"	38	40	50,5					
	2"	51	50	64					
	2 1/2"	63,5	-	77,5					
	3"	76,1	65	91					
	80	-	80	106					
	4"	101,6	100	119					
	125	-	125	155					
	6"	-	-	166,8					

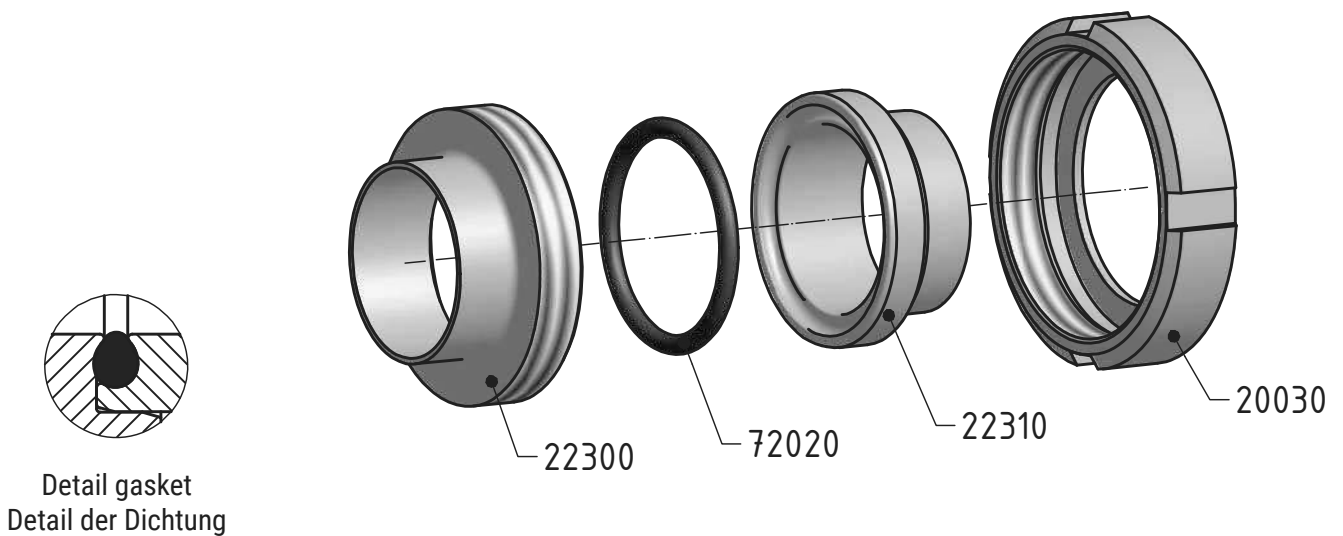
Clamp gasket SMS Dichtring - clamp SMS	21232	Dimensions • Baumaße									
	SMS	DN - SMS	B	D	E	F	R	L	thread DIN 405 Rd x s	kg	
	1/2" - 12,7	9,3	25								
	3/4" - 19,05	15,7	25								
	1" - 25	22,3	50,5								
	1 1/2" - 38,1	35	50,5								
	2" - 51	47,7	64								
	2 1/2" - 63,5	60,4	77,5								
	3" - 76,1	73,1	91								
	4" - 101,6	97,6	119								

Clamp blank DIN/SMS TC-Blindklemmstutzen DIN/SMS	21242	Dimensions • Baumaße									
	DIN 32676 / SMS	DN - SMS	A	B	C	E	F	R	L	thread DIN 405 Rd x s	kg
	1/2" - 12,7	6,35	25								0,04
	3/4" - 19,05	6,35	25								0,04
	1" - 25	6,35	50,5								0,08
	1 1/2" - 38,1	6,35	50,5								0,08
	2" - 51	6,35	64								0,14
	2 1/2" - 63,5	6,35	77,5								0,28
	3" - 76,1	6,35	91								0,46
	4" - 101,6	7,95	119								0,6

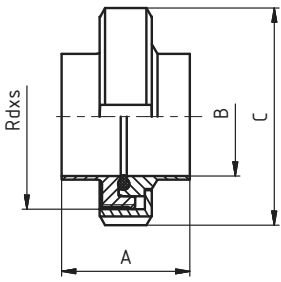
Pipe unions Rohrverbindungen

Welding union Anschweißverschraubung	22320	Description Beschreibung
	DIN 11 853	
		<p>Welding union 22320, DIN 11 853-1</p> <ul style="list-style-type: none"> - Simple instalation - Easy gasket exchange <p>Anschweißverschraubung 22320, DIN 11 853-1</p> <ul style="list-style-type: none"> - Einfache die Dichtung austauschen - Einfache Installation <p>Baumaße / Dimensions: DN 10 - DN 100</p> <p>Thread / Gewinde: DIN 405</p> <p>Material / Material: 1.4301 (AISI 304) 1.4404 (AISI 316L)</p> <p>Dichtring / Gasket: NBR EPDM Viton</p>

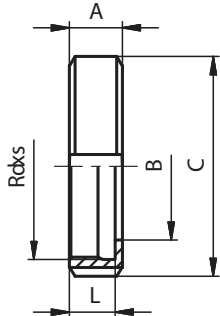
Komponents / Komponenten

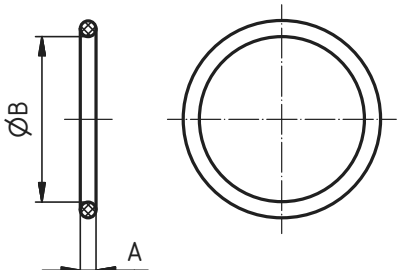


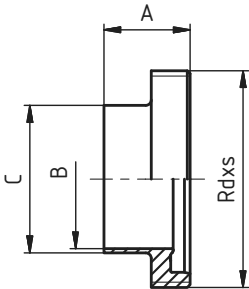
Standard gasket /Standard Dichtring - EPDM

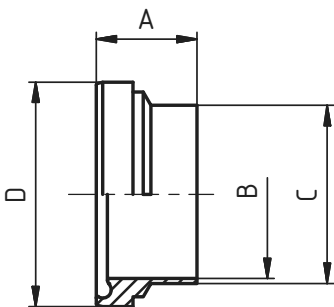
Welding union - complete Anschweißverschraubung - komplett	22320	Dimensions • Baumaße										
	DIN 11 853	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	32	10	38							28 x 1/8"	0,14
	15	32	16	44							34 x 1/8"	0,18
	20	34	20	54							44 x 1/6"	0,30
	25	42	26	63							52 x 1/6"	0,41
	32	48	32	70							58 x 1/6"	0,48
	40	50	38	78							65 x 1/6"	0,57
	50	54	50	92							78 x 1/6"	0,78
	65	62	66	112							95 x 1/6"	1,27
	80	72	81	127							110 x 1/4"	1,76
	100	86	100	148							130 x 1/4"	2,40

Pipe unions Rohrverbindungen

Nut Nutmutter	20030	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	18	19	38						15	28 x 1/8"	0,07
	15	18	25	44						15	34 x 1/8"	0,08
	20	20	31	54						17	44 x 1/6"	0,14
	25	21	36	63						18	52 x 1/6"	0,18
	32	21	42	70						18	58 x 1/6"	0,22
	40	21	49	78						18	65 x 1/6"	0,25
	50	22	62	92						19	78 x 1/6"	0,33
	65	25	80	112						21	95 x 1/6"	0,55
	80	29	94	127						25	110 x 1/4"	0,80
	100	31	115	148						26	130 x 1/4"	1,08
	125	35	138	178						30	160 x 1/4"	1,45
	150	40	164	210						34	190 x 1/4"	1,88

Gasket Dichtring	72020	Dimensions • Baumaße										
	DIN 11 853	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	3,5	12									
	15	3,5	18									
	20	3,5	22									
	25	3,5	28									
	32	5	34									
	40	5	40									
	50	5	52									
	65	5	68									
	80	5	83									
	100	5	102									

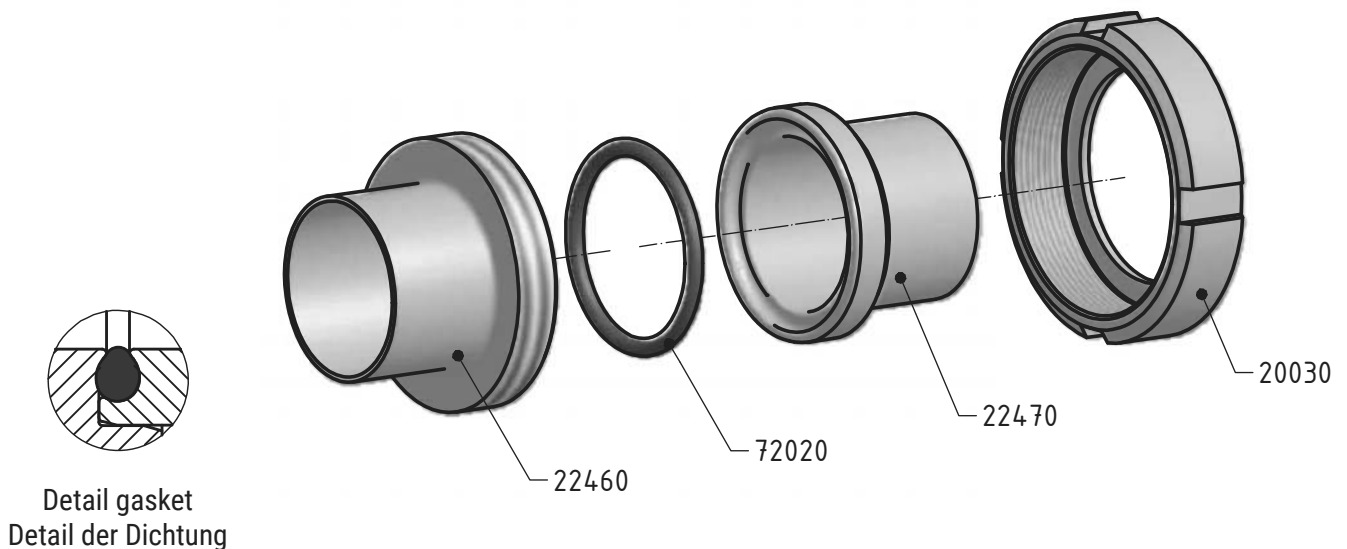
Welding male Anschweißgewindestutzen	22300	Dimensions • Baumaße										
	DIN 11 853	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	19	10	13							28 x 1/8"	0,04
	15	19	16	19							34 x 1/8"	0,06
	20	21	20	23							44 x 1/6"	0,11
	25	26	26	29							52 x 1/6"	0,15
	32	30	32	35							58 x 1/6"	0,17
	40	31	38	41							65 x 1/6"	0,20
	50	31	50	53							78 x 1/6"	0,26
	65	36	66	70							95 x 1/6"	0,40
	80	42	81	85							110 x 1/4"	0,63
	100	50	100	104							130 x 1/4"	0,76

Welding liner Anschweißkegelstutzen	22310	Dimensions • Baumaße										
	DIN 11 853	DN	A	B	C	D	E	F	R		thread DIN 405 Rd x s	kg
	10	17	10	13	21,9							0,02
	15	17	16	19	27,9							0,03
	20	18	20	23	35,9							0,05
	25	22	26	29	42,9							0,08
	32	25	32	35	48,9							0,09
	40	26	38	41	54,9							0,11
	50	30	50	53	66,9							0,16
	65	34	66	70	84,9							0,30
	80	38	81	85	98,9							0,35
	100	46	100	104	118,9							0,57

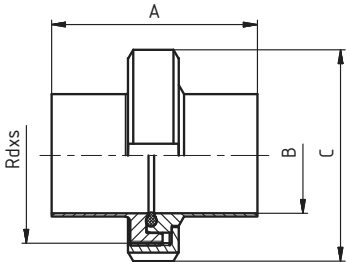
Pipe unions Rohrverbindungen

Welding union Anschweißverschraubung	22490	Description Beschreibung
	DIN 11 864-1-A	
		<p>Welding union 22490, DIN 11 864-1</p> <ul style="list-style-type: none"> - Simple installation - Easy gasket exchange <p>Anschweißverschraubung 22490, DIN 11 864-1</p> <ul style="list-style-type: none"> - Einfache die Dichtung austauschen - Einfache Installation <p>Baumaße / Dimensions: DN 10 - DN 100</p> <p>Thread / Gewinde: DIN 405</p> <p>Material / Material: 1.4301 (AISI 304) 1.4404 (AISI 316L)</p> <p>Dichtring / Gasket: NBR EPDM Viton</p>

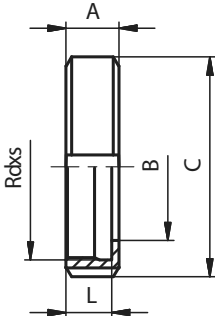
Komponents / Komponenten

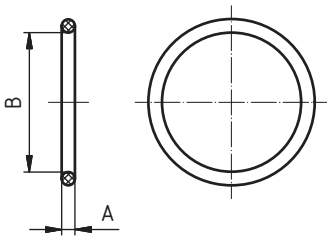


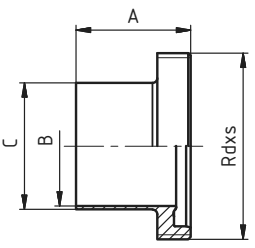
Standard gasket / Standard Dichtring - EPDM

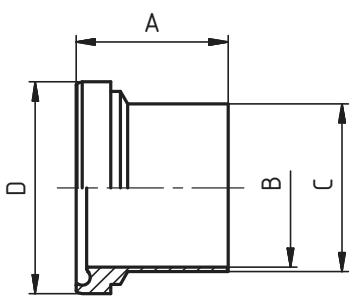
Welding union - complete Anschweißverschraubung - komplett	22490	Dimensions • Baumaße										
	DIN 11 864-1-A	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	76	10	38							28x1/8"	0,08
	15	76	16	44							34x1/8"	0,11
	20	76	20	54							44x1/6"	0,19
	25	77	26	63							52x1/6"	0,26
	32	88	32	70							58x1/6"	0,31
	40	88	38	78							65x1/6"	0,36
	50	89	50	92							78x1/6"	0,50
	65	113	66	112							95x1/6"	0,86
	80	117	81	127							110x1/4"	1,16
	100	120	100	148							130x1/4"	1,51

Pipe unions Rohrverbindungen

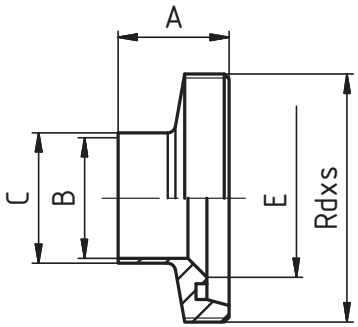
Nut Nutmutter	20030	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	18	19	38						15	28 x 1/8"	0,07
	15	18	25	44						15	34 x 1/8"	0,08
	20	20	31	54						17	44 x 1/6"	0,14
	25	21	36	63						18	52 x 1/6"	0,18
	32	21	42	70						18	58 x 1/6"	0,22
	40	21	49	78						18	65 x 1/6"	0,25
	50	22	62	92						19	78 x 1/6"	0,33
	65	25	80	112						21	95 x 1/6"	0,55
	80	29	94	127						25	110 x 1/4"	0,80
	100	31	115	148						26	130 x 1/4"	1,08
	125	35	138	178						30	160 x 1/4"	1,45
	150	40	164	210						34	190 x 1/4"	1,88

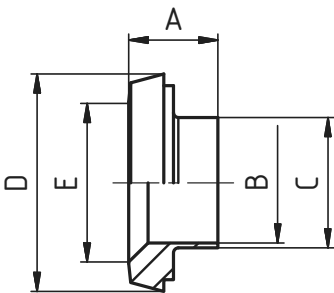
Gasket Dichtring	72020	Dimensions • Baumaße										
	DIN 11 864	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	3,5	12									
	15	3,5	18									
	20	3,5	22									
	25	3,5	28									
	32	5	34									
	40	5	40									
	50	5	52									
	65	5	68									
	80	5	83									
	100	5	102									

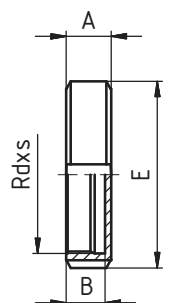
Welding male Anschweißgewindestutzen	22460	Dimensions • Baumaße										
	DIN 11 864-1-A	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	41	10	13							28 x 1/8"	0,05
	15	41	16	19							34 x 1/8"	0,07
	20	43	20	23							44 x 1/6"	0,13
	25	43	26	29							52 x 1/6"	0,16
	32	48	32	35							58 x 1/6"	0,19
	40	48	38	41							65 x 1/6"	0,22
	50	48	50	53							78 x 1/6"	0,30
	65	60	66	70							95 x 1/6"	0,48
	80	64	81	85							110 x 1/4"	0,72
	100	64	100	104							130 x 1/4"	0,84

Welding liner Anschweißkegelstutzen	22470	Dimensions • Baumaße										
	DIN 11 864-1-A	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	39	10	13	21,9							0,03
	15	39	16	19	27,9							0,04
	20	38	20	23	35,9							0,06
	25	40	26	29	42,9							0,10
	32	47	32	35	48,9							0,12
	40	47	38	41	54,9							0,14
	50	48	50	53	66,9							0,20
	65	61	66	70	84,9							0,38
	80	61	81	85	98,9							0,44
	100	66	100	104	118,9							0,67

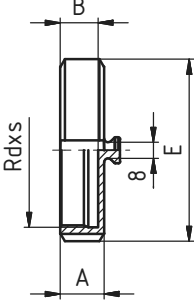
Pipe unions Rohrverbindungen

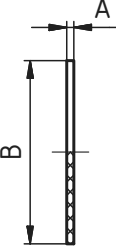
Reducing male part Reduziergewindestutzen	20230	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	20/10	24	10	13		20					44x1/6"	
	20/15	24	16	19		20					44x1/6"	
	25/10	29	10	13		26					52x1/6"	
	25/15	29	16	19		26					52x1/6"	
	25/20	29	20	23		26					52x1/6"	
	32/15	32	16	19		32					58x1/6"	
	32/20	32	20	23		32					58x1/6"	
	32/25	32	26	29		32					58x1/6"	
	40/20	33	20	23		38					65x1/6"	
	40/25	33	26	29		38					65x1/6"	
	40/32	33	32	35		38					65x1/6"	
	50/20	35	20	23		50					78x1/6"	
	50/25	35	26	29		50					78x1/6"	
	50/32	35	32	35		50					78x1/6"	
	50/40	35	38	41		50					78x1/6"	
	65/40	40	38	41		66					95x1/6"	
	65/50	40	50	53		66					95x1/6"	
80/40	45	38	41		81					110x1/4"		
80/50	45	50	53		81					110x1/4"		
80/65	45	66	70		81					110x1/4"		
100/50	54	50	53		100					130x1/4"		
100/65	54	66	70		100					130x1/4"		
100/80	54	81	85		100					130x1/4"		

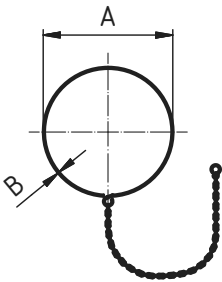
Reducing liner Reduzierkegelstutzen	20240	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	20/10	18	10	13	36,5	20						
	20/15	18	16	19	36,5	20						
	25/10	22	10	13	44	26						
	25/15	22	16	19	44	26						
	25/20	22	20	23	44	26						
	32/15	25	16	19	50	32						
	32/20	25	20	23	50	32						
	32/25	25	26	29	50	32						
	40/20	26	20	23	56	38						
	40/25	26	26	29	56	38						
	40/32	26	32	35	56	38						
	50/20	28	20	23	68,5	50						
	50/25	28	26	29	68,5	50						
	50/32	28	32	35	68,5	50						
	50/40	28	38	41	68,5	50						
	65/40	32	38	41	86	66						
	65/50	32	50	53	86	66						
80/40	37	38	41	100	81							
80/50	37	50	53	100	81							
80/65	37	66	70	100	81							
100/50	44	50	53	121	100							
100/65	44	66	70	121	100							
100/80	44	81	85	121	100							

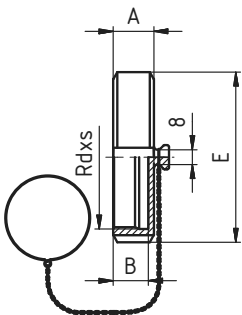
Blind nut Blindmutter	20250	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	18	15			38					28x1/8"	0,08
	15	18	15			44					34x1/8"	0,10
	20	20	17			54					44x1/6"	0,14
	25	21	18			63					52x1/6"	0,19
	32	21	18			70					58x1/6"	0,23
	40	21	18			78					65x1/6"	0,26
	50	22	19			92					78x1/6"	0,38
	65	25	21			112					95x1/6"	0,66
	80	29	25			127					110x1/4"	1,00
	100	31	26			148					130x1/4"	1,40
	125	35	30			178					160x1/4"	1,97
150	40	34			210					190x1/4"	2,87	

Pipe unions Rohrverbindungen

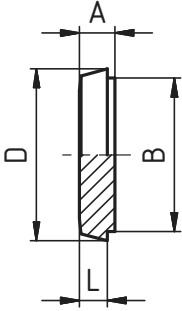
Blind nut with boss Blindmutter mit knopf	20260	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	18	15			38					28x1/8"	0,09
	15	18	15			44					34x1/8"	0,11
	20	20	17			54					44x1/6"	0,15
	25	21	18			63					52x1/6"	0,20
	32	21	18			70					58x1/6"	0,24
	40	21	18			78					65x1/6"	0,27
	50	22	19			92					78x1/6"	0,39
	65	25	21			112					95x1/6"	0,67
	80	29	25			127					110x1/4"	1,01
	100	31	26			148					130x1/4"	1,41
	125	35	30			178					160x1/4"	1,98
	150	40	34			210					190x1/4"	2,88

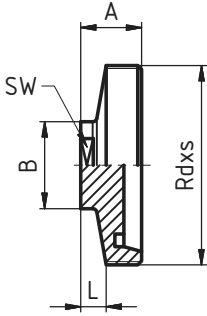
Gasket disc - blind nut Dichtscheibe - blindmutter	20270	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	3	28									
	15	3	34									
	20	3	44									
	25	3	52									
	32	3	58									
	40	3	65									
	50	3	78									
	65	3	95									
	80	3	110									
	100	3	130									
	125	4	160									
	150	4	190									

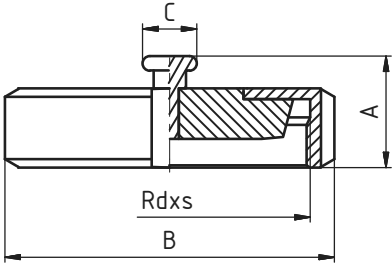
Chain with hook and eye Kette mit haken und öse	20280	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	18	1,25									
	15	24	1,25									
	20	28	1,25									
	25	34	1,25									
	32	41	1,25									
	40	46	1,25									
	50	57	1,25									
	65	75	1,4									
	80	93	1,6									
	100	113	1,6									
	125	136	3									
	150	166	3									

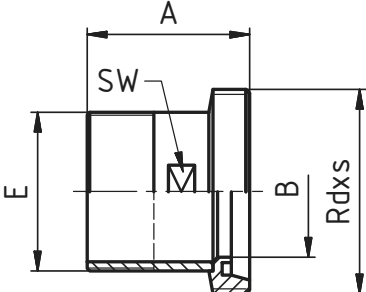
Blind nut - complete Blindmutter (komplett)	20290	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	18	15			38					28x1/8"	0,12
	15	18	15			44					34x1/8"	0,15
	20	20	17			54					44x1/6"	0,19
	25	21	18			63					52x1/6"	0,25
	32	21	18			70					58x1/6"	0,29
	40	21	18			78					65x1/6"	0,33
	50	22	19			92					78x1/6"	0,46
	65	25	21			112					95x1/6"	0,85
	80	29	25			127					110x1/4"	1,11
	100	31	26			148					130x1/4"	1,53
	125	35	30			178					160x1/4"	2,12
	150	40	34			210					190x1/4"	3,05

Pipe unions Rohrverbindungen

Liner blank Blindkegel	20300	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	9	18		22,5					6		0,02
	15	9	24		28,5					6		0,04
	20	11	30		36,5					8		0,07
	25	13	35		44					10		0,13
	32	13	41		50					10		0,17
	40	13	48		56					10		0,22
	50	14	61		68,5					11		0,35
	65	16	79		86					12		0,67
	80	16	93		100					12		0,92
	100	20	114		121					15		1,34
	125	22	137		150					17		1,68
	150	24	163		176					18		4,30

Male part blank Blindgewinde	20330	Dimensions • Baumaße											
		DN	A	B	C	D	E	F	L	SW	thread DIN 405 Rd x s	kg	
	10	22	22						10	19	28x1/8"	0,06	
	15	22	25						10	22	34x1/8"	0,09	
	20	24	25						10	22	44x1/6"	0,13	
	25	24	34						10	27	52x1/6"	0,19	
	32	24	34						10	27	58x1/6"	0,22	
	40	24	34						10	27	65x1/6"	0,25	
	50	24	34						10	27	78x1/6"	0,35	
	65	28	34						10	27	95x1/6"	0,64	
	80	30	34						10	27	110x1/4"	1,30	
	100	30	34						10	27	130x1/4"	2,10	

Blind nut with liner blank (complete) Blindmutter mit blindkegel (komplett)	20340	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	L	SW	thread DIN 405 Rd x s	kg
	10	27	38	15							28x1/8"	0,12
	15	27	44	15							34x1/8"	0,15
	20	29	54	15							44x1/6"	0,22
	25	30	63	15							52x1/6"	0,32
	32	30	70	15							58x1/6"	0,40
	40	30	78	15							65x1/6"	0,49
	50	31	92	15							78x1/6"	0,73
	65	34	112	20							95x1/6"	1,25
	80	38	127	20							110x1/4"	1,70
	100	40	148	20							130x1/4"	2,79
	125	44	178	20							160x1/4"	4,39
	150	49	210	20							190x1/4"	6,54

Male threaded outside Einschraub gewindestutzen	20350	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	SW	thread DIN 405 Rd x s
	10	40	10			3/8"			15	28x1/8"	0,06
	15	43	16			1/2"			20	34x1/8"	0,09
	20	47	20			3/4"			25	44x1/6"	0,15
	25	52	26			1"			32	52x1/6"	0,21
	25	54	26			3/4"			25	52x1/6"	0,20
	32	54	32			1"			32	58x1/6"	0,23
	32	54	32			1 1/4"			40	58x1/6"	0,25
	40	54	38			1 1/2"			45	65x1/6"	0,32
	50	57	50			2"			57	78x1/6"	0,43
	65	66	66			2 1/2"			73	95x1/6"	0,65
	80	75	81			3"			86	110x1/4"	1,00
	100	83	100			4"			110	130x1/4"	1,33

Pipe unions Rohrverbindungen

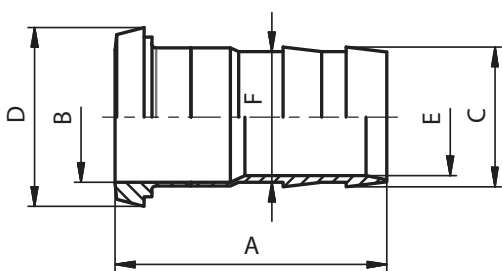
Liner threaded outside Einschraub kegelstutzen	20360	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	SW	thread DIN 405 Rd x s	kg
	10	37	10		22,5	3/8"				15		0,04
	15	40	16		28,5	1/2"				20		0,06
	20	47	20		36,5	3/4"				25		0,11
	25	50	26		44	1"				32		0,16
	32	54	32		50	1 1/4"				40		0,19
	40	54	38		56	1 1/2"				45		0,25
	50	57	50		68,5	2"				57		0,35
	65	66	66		86	2 1/2"				73		0,55
	80	75	81		100	3"				86		0,72
	100	83	100		121	4"				110		1,12

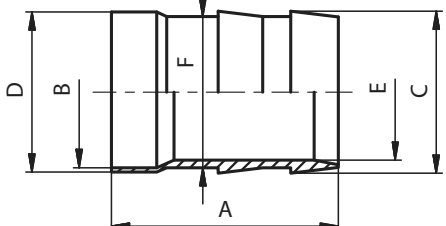
Male threaded inside Aufschraub gewindestutzen	20370	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	SW	thread DIN 405 Rd x s	kg
	10	31	10	20,5		3/8"				19	28x1/8"	0,06
	15	31	16	25		1/2"				24	34x1/8"	0,08
	20	35	20	32		3/4"				30	44x1/6"	0,15
	25	38	26	37		1"				35	52x1/6"	0,19
	32	40	32	46		1 1/4"				44	58x1/6"	0,23
	40	41	38	52,5		1 1/2"				51	65x1/6"	0,28
	50	43	50	65,5		2"				63	78x1/6"	0,41
	65	50	66	81		2 1/2"				78	95x1/6"	0,60
	80	56	81	95		3"				92	110x1/4"	0,92
	100	55	100	125		4"				120	130x1/4"	1,32

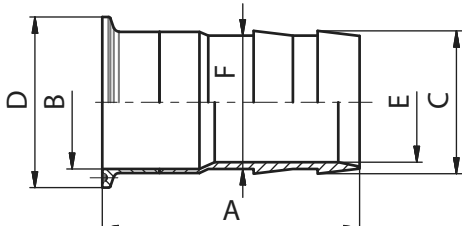
Liner threaded inside Aufschraub kegelstutzen	20380	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	SW	thread DIN 405 Rd x s	kg
	10	44	10	20,5		3/8"				19	28x1/8"	0,13
	15	50	16	25		1/2"				24	34x1/8"	0,17
	20	53	20	32		3/4"				30	44x1/6"	0,26
	25	53	26	37		1"				35	52x1/6"	0,35
	32	60	32	46		1 1/4"				44	58x1/6"	0,43
	40	65	38	52,5		1 1/2"				51	65x1/6"	0,52
	50	67	50	65,5		2"				63	78x1/6"	0,75
	65	76	66	81		2 1/2"				78	95x1/6"	1,27
	80	80	81	95		3"				92	110x1/4"	1,62
	100	100	100	125		4"				120	130x1/4"	2,54

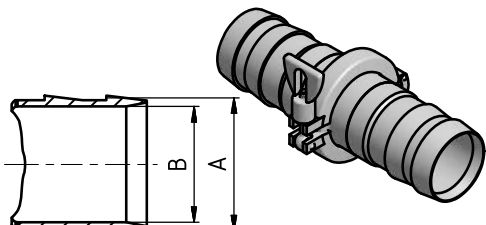
Liner hose fitting - P Schlauchstutzen - G	20510	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	60	10	12		7	10				28x1/8"	0,05
	15	61	16	18,5		13	15				34x1/8"	0,08
	20	65	20	23		16	20				44x1/6"	0,17
	25	70	26	28		20	25				52x1/6"	0,23
	32	84	32	35,6		27	32				58x1/6"	0,33
	40	95	38	43,6		35	40				65x1/6"	0,52
	50	110	50	53,6		45	50				78x1/6"	0,66
	65	133	66	66,6		58	65				95x1/6"	1,14
	80	145	81	83,6		75	80				110x1/4"	1,50
	100	161	100	103,6		95	100				130x1/4"	2,40

Pipe unions Rohrverbindungen

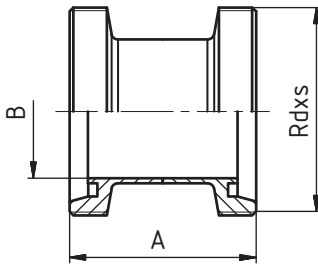
Liner hose fitting - K Schlauchstutzen - K	20520	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s
	10	60	10	12	22,5	7	10				0,04
	15	61	16	18,5	28,5	13	15				0,06
	20	65	20	23	36,5	16	20				0,13
	25	70	26	28	44	20	25				0,19
	32	77	32	35,6	50	27	32				0,27
	40	88	38	43,6	56	35	40				0,42
	50	103	50	53,6	68,5	45	50				0,58
	65	125	66	66,6	86	58	65				1,08
	80	137	81	83,6	100	75	80				1,32
	100	151	100	103,6	121	95	100				2,13

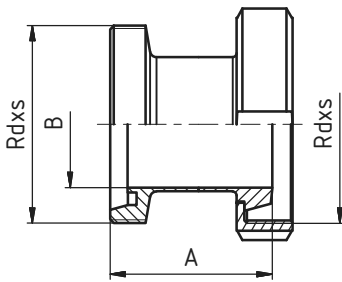
Liner hose fitting - S Schlauchstutzen - S	20530	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s
	10	43	10	12	13	7	10				0,02
	15	44	16	18,5	19	13	15				0,04
	20	47	20	23	23	16	20				0,06
	25	48	26	28	29	20	25				0,06
	32	52	32	35,6	35	27	32				0,08
	40	62	38	43,6	41	35	40				0,12
	50	75	50	53,6	53	45	50				0,22
	65	93	66	66,6	70	58	65				0,58
	80	100	81	83,6	85	75	80				0,68
	100	107	100	103,6	104	95	100				1,72

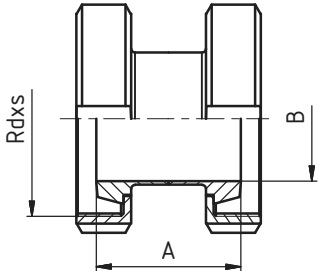
Liner hose fitting - C Schlauchstutzen - C	20540	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s
	10	61	10	12	34	7	10				0,05
	15	62	16	18,5	34	13	15				0,08
	20	65	20	23	34	16	20				0,17
	25	69,5	26	28	50,5	20	25				0,23
	32	73,5	32	35,6	50,5	27	32				0,33
	40	83,5	38	43,6	50,5	35	40				0,52
	50	96,5	50	53,6	64	45	50				0,66
	65	121	66	66,6	91	58	65				1,14
	80	128	81	83,6	106	75	80				1,50
	100	135	100	103,6	119	95	100				2,40

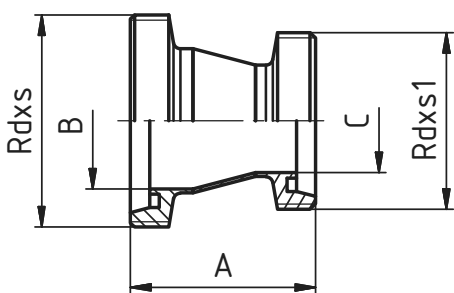
Connecting clamp/clamp for hoses Cupplungsstück C/C zu schlauch	21300	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s
	10	12	7								0,30
	15	18,5	13								0,32
	20	23	16								0,36
	25	28	20								0,41
	32	35,6	27								0,43
	40	43,6	35								0,49
	50	53,6	45								0,61
	65	66,6	58								1,47
	80	83,6	75								1,63
	100	103,6	95								2,71

Pipe unions Rohrverbindungen

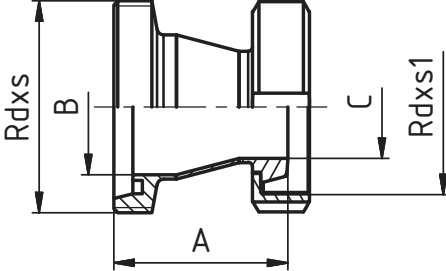
Connecting piece G - G Kupplungsstück G - G	20570	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	42	10								28x1/8"	0,09
	15	42	16								34x1/8"	0,11
	20	48	20								44x1/6"	0,21
	25	58	26								52x1/6"	0,28
	32	64	32								58x1/6"	0,36
	40	66	38								65x1/6"	0,46
	50	70	50								78x1/6"	0,67
	65	80	66								95x1/6"	1,06
	80	90	81								110x1/4"	1,41
	100	108	100								130x1/4"	2,13

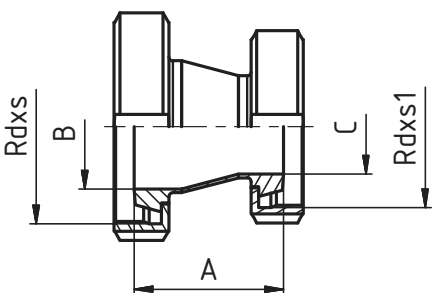
Connecting piece K/M - G Kupplungsstück K/M - G	20580	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	42	10								28x1/8"	0,13
	15	42	16								34x1/8"	0,16
	20	48	20								44x1/6"	0,28
	25	58	26								52x1/6"	0,39
	32	64	32								58x1/6"	0,47
	40	66	38								65x1/6"	0,55
	50	70	50								78x1/6"	0,77
	65	80	66								95x1/6"	1,24
	80	90	81								110x1/4"	1,73
	100	108	100								130x1/4"	2,40

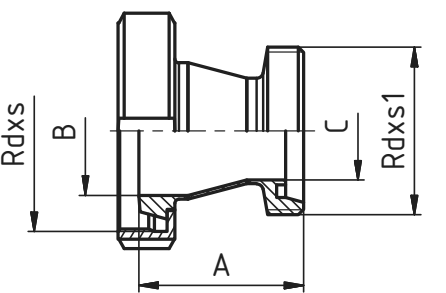
Connecting piece K/M - K/M Kupplungsstück K/M - K/M	20590	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	34	10								28x1/8"	0,18
	15	34	16								34x1/8"	0,22
	20	36	20								44x1/6"	0,38
	25	44	26								52x1/6"	0,54
	32	50	32								58x1/6"	0,66
	40	52	38								65x1/6"	0,76
	50	56	50								78x1/6"	1,06
	65	64	66								95x1/6"	1,72
	80	74	81								110x1/4"	2,36
	100	88	100								130x1/4"	3,38

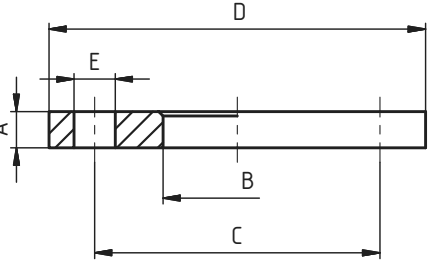
Reducing piece G - G Reduzierstück G - G	20630	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	thread DIN 405 Rd x s	thread DIN 405 Rd x s1	kg
	32/25	55	32	26					58x1/6"	52x1/6"	0,36
	40/25	66	38	25					65x1/6"	52x1/6"	0,40
	40/32	55	38	32					65x1/6"	58x1/6"	0,46
	50/32	78	50	32					78x1/6"	58x1/6"	0,61
	50/40	68	50	38					78x1/6"	65x1/6"	0,67
	65/40	98	66	38					95x1/6"	65x1/6"	1,00
	65/50	77	66	50					95x1/6"	78x1/6"	1,06
	80/50	104	81	50					110x1/4"	78x1/6"	1,37
	80/65	77	81	66					110x1/4"	95x1/6"	1,41
	100/65	116	100	66					130x1/4"	95x1/6"	2,08
100/80	89	100	81					130x1/4"	110x1/4"	2,13	

Pipe unions Rohrverbindungen

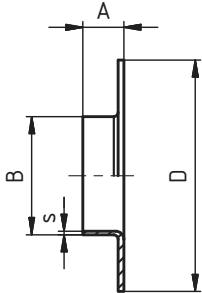
Recucing piece G - K/M Reduzierstück G - K/M	20640	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	thread DIN 405 Rd x s	thread DIN 405 Rd x s1	kg
	32/25	51	32	26				58x1/6"	52x1/6"	0,47	
	40/25	62	38	26				65x1/6"	52x1/6"	0,50	
	40/32	59	38	32				65x1/6"	58x1/6"	0,55	
	50/32	74	50	32				78x1/6"	58x1/6"	0,71	
	50/40	64	50	38				78x1/6"	65x1/6"	0,77	
	65/40	94	66	38				95x1/6"	65x1/6"	1,19	
	65/50	73	66	50				95x1/6"	78x1/6"	1,24	
	80/50	100	81	50				110x1/4"	78x1/6"	1,68	
	80/65	73	81	66				110x1/4"	95x1/6"	1,73	
	100/65	112	100	66				130x1/4"	95x1/6"	2,35	
	100/80	85	100	81				130x1/4"	110x1/4"	2,40	

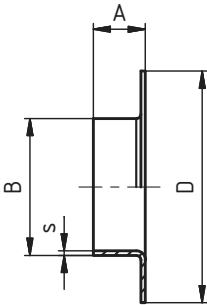
Recucing piece K/M - K/M Reduzierstück K/M - K/M	20650	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	thread DIN 405 Rd x s	thread DIN 405 Rd x s1	kg
	32/25	47	32	26				58x1/6"	52x1/6"	0,66	
	40/25	58	38	26				65x1/6"	52x1/6"	0,71	
	40/32	47	38	32				65x1/6"	58x1/6"	0,76	
	50/32	70	50	32				78x1/6"	58x1/6"	1,01	
	50/40	60	50	38				78x1/6"	65x1/6"	1,06	
	65/40	90	66	38				95x1/6"	65x1/6"	1,67	
	65/50	69	66	50				95x1/6"	78x1/6"	1,72	
	80/50	96	81	50				110x1/4"	78x1/6"	2,30	
	80/65	69	81	66				110x1/4"	95x1/6"	2,36	
	100/65	107	100	66				130x1/4"	95x1/6"	3,32	
	100/80	80	100	81				130x1/4"	110x1/4"	3,38	

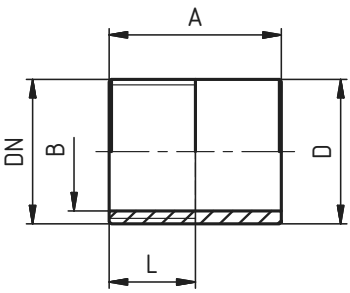
Recucing piece K/M - G Reduzierstück K/M - G	20660	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	thread DIN 405 Rd x s	thread DIN 405 Rd x s1	kg
	32/25	51	32	26				58x1/6"	52x1/6"	0,47	
	40/25	62	38	25				65x1/6"	52x1/6"	0,50	
	40/32	59	38	32				65x1/6"	58x1/6"	0,55	
	50/32	74	50	32				78x1/6"	58x1/6"	0,71	
	50/40	64	50	38				78x1/6"	65x1/6"	0,77	
	65/40	94	66	38				95x1/6"	65x1/6"	1,19	
	65/50	73	66	50				95x1/6"	78x1/6"	1,24	
	80/50	100	81	50				110x1/4"	78x1/6"	1,68	
	80/65	73	81	66				110x1/4"	95x1/6"	1,73	
	100/65	112	100	66				130x1/4"	95x1/6"	2,35	
	100/80	85	100	81				130x1/4"	110x1/4"	2,40	

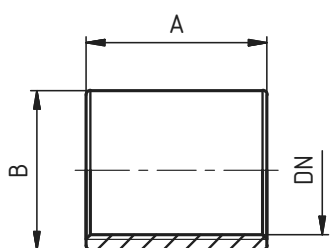
Flange AL ISO Flansch AL ISO	20780 AL	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s
	10	14	19	60	90	14x4					0,59
	15	14	24	65	95	14x4					0,68
	20	16	24	75	105	14x4					0,80
	25	16	36	85	115	14x4					1,11
	32	16	46	100	140	18x4					1,64
	40	16	54	110	150	18x4					1,86
	50	16	65	125	165	18x4					2,20
	65	16	81	145	185	18x4					2,62
	80	18	94	160	200	18x8					3,32
	100	18	119	180	220	18x8					3,67
	125	18	145	210	250	18x8					4,54
150	18	173	240	285	22x8					5,60	

Pipe unions Rohrverbindungen

Welding neck DIN Vorschweissbördel DIN	20790 DIN	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	s	thread DIN 405 Rd x s	kg
		10	6	12		40				1,5		
		15	8	18		45				1,5		
		20	10	23		58				1,5		
		25	10	28		68				1,5		
		32	12	35		78				1,5		
		40	15	40		88				1,5		
		50	18	52		102				1,5		
		65	25	70		122				2,0		
		80	25	85		138				2,0		
		100	25	104		158				2,0		
		125	28	129		188				2,0		
		150	28	154		212				2,0		

Welding neck ISO Vorschweissbördel ISO	20790 ISO	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	s	thread DIN 405 Rd x s	kg
		10	9	17,2		40				2		
		15	9	21,3		45				2		
		20	12	26,9		58				2		
		25	15	33,7		68				2		
		32	15	42,4		78				2		
		40	17	48,3		88				2		
		50	23	60,3		102				2		
		65	23	76,1		122				2		
		80	23	88,9		138				3		
		100	28	114,3		158				3		
		125	30	139,7		188				3		
		150	30	168,3		212				3		

Nipple Nippel	20800	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		1/8"	30	7		10,5				10		0,02
		1/4"	30	9,3		13,6				11		0,02
		3/8"	30	13		17,1				10,5		0,03
		1/2"	35	16		21,5				15,5		0,04
		3/4"	40	21,6		27				16,5		0,06
		1"	40	27,5		33,6				20		0,10
		1 1/4"	50	36,6		42,2				20		0,15
		1 1/2"	50	41,5		48,5				22,5		0,16
		2"	50	53,6		60,6				25,5		0,22
		2 1/2"	60	68,9		76,1				30		0,42
		3"	70	81,5		89,4				34		0,68
		4"	80	105,8		114,3				39		0,97

Muff Muffe	20840	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		1/8"	15	15								0,02
		1/4"	25	18								0,02
		3/8"	26	20,5								0,03
		1/2"	33	25								0,08
		3/4"	35	32								0,11
		1"	42	37								0,17
		1 1/4"	45	46								0,32
		1 1/2"	45	52,5								0,40
		2"	55	65,5								0,48
		2 1/2"	63	81								1,20
		3"	69	95								1,57
		4"	80	114,6								2,40

Pipe unions Rohrverbindungen

Flange connection PN 10
Flanschverbindung PN 10

20720
DIN 2576

Description
Beschreibung



Flange connection PN 10

- Simple instalation
- Easy gasket exchange

Flanschverbindung PN 10

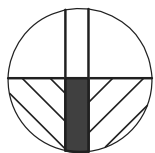
- Einfache installation
- Einfache die Dichtung austauschen

Dimensions / Baumaße: DN 10 - DN 150

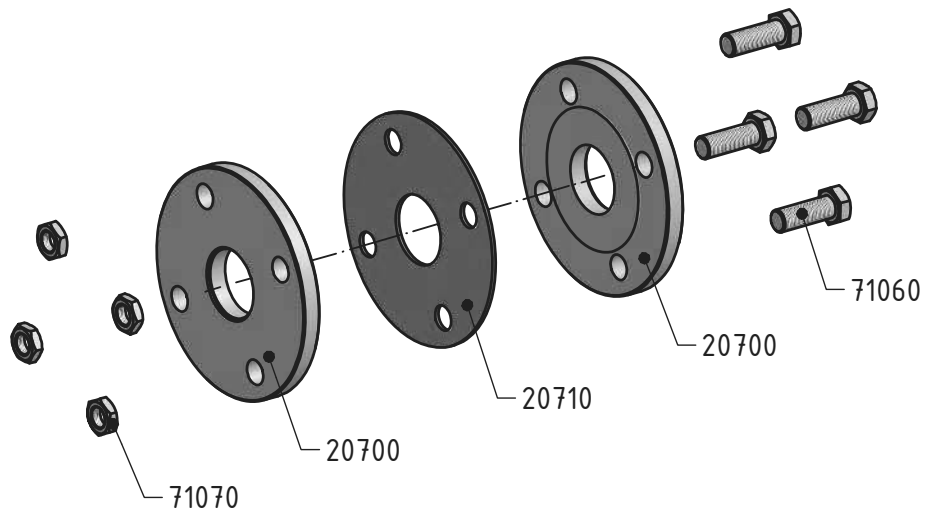
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtring: NBR
EPDM
Viton

Komponents / Komponenten



Detail gasket
Detail der Dichtung

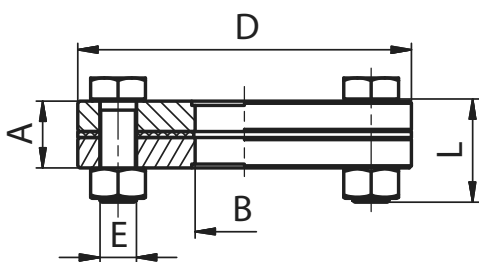


Standard gasket / Standard Dichtring - NBR

Flange connection PN 10 - complete
Flanschverbindung PN 10 - komplett

20720
DIN 2576

Dimensions • Baumaße



DN	A	B	C	D	E	F	R	L	Rd x s	kg
10	31	10		90	4 x M14			40		1,30
15	31	16		95	4 x M14			40		1,40
20	31	20		105	4 x M14			45		2,00
25	31	26		115	4 x M14			45		2,30
32	31	32		140	4 x M18			50		3,50
40	31	38		150	4 x M18			50		4,00
50	31	50		165	4 x M18			55		5,10
65	32	66		185	4 x M18			55		6,00
80	36	81		200	8 x M18			55		7,50
100	36	100		220	8 x M18			55		8,30
125	44	125		250	8 x M18			60		13,00
150	52	150		285	8 x M22			65		16,70

Pipe unions Rohrverbindungen

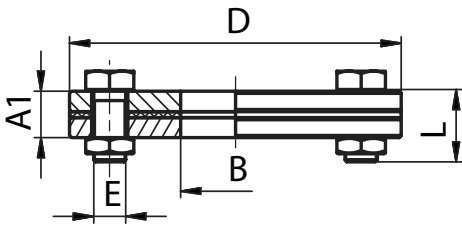
Flange connection PN 10 ECO - complete
Flanschverbindung PN 10 ECO - komplett

20720 ECO

Dimensions • Baumaße

DIN 2576

DN	A1	B	D	E	L	F	G	H	thread DIN 405 Rd x s	kg
10	23	17,7	90	4 x M14	35					1,20
15	23	18,6	95	4 x M14	35					1,30
20	23	26	105	4 x M14	35					1,60
25	23	31	115	4 x M14	35					1,80
32	23	39	140	4 x M18	40					2,80
40	23	45,5	150	4 x M18	40					3,10
50	23	54,5	165	4 x M18	40					3,80
65	24	71	185	4 x M18	40					4,20
80	24	85	200	8 x M18	40					4,80
100	24	105,5	220	8 x M18	40					5,30
125	28	130,5	250	8 x M18	45					8,30
150	28	155,5	285	8 x M22	50					11,00



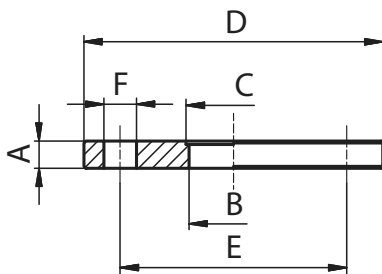
Flange PN 10
Flansch PN 10

20700

Dimensions • Baumaße

DIN 2576

DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	14	10	12,2	90	60	14x4				0,50
15	14	16	18,2	95	65	14x4				0,60
20	14	20	22,2	105	75	14x4				0,85
25	14	26	28,2	115	85	14x4				1,11
32	14	32	34,2	140	100	18x4				1,64
40	14	38	40,2	150	110	18x4				1,80
50	14	50	52,2	165	125	18x4				2,30
65	14	66	70,3	185	145	18x4				2,88
80	16	81	85,3	200	160	18x8				3,20
100	16	100	104,3	220	180	18x8				4,00
125	20	125	129,5	250	210	18x8				5,00
150	24	150	154,5	285	240	22x8				6,70



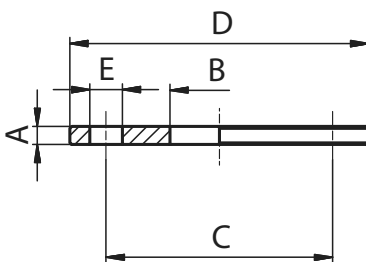
Flange PN 10 ECO
Flansch PN 10 ECO

20700 ECO

Dimensions • Baumaße

DIN 2576

DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
25	10	29	85	115	14x4					0,69
32	10	35	100	140	18x4					1,00
40	10	41,5	110	150	18x4					1,16
50	10	52,8	125	165	18x4					1,23
65	10	71,2	145	185	18x4					1,68
80	10	86,5	160	200	18x8					1,62
100	10	105,5	180	220	18x8					1,89
125	12	131	210	250	18x8					3,33
150	12	155,5	240	285	22x8					4,12



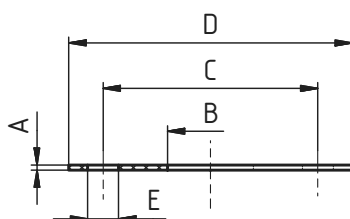
Flat seal for flange PN 10
Flanschdichtung PN 10

20710

Dimensions • Baumaße

DIN 2576

DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	3	10	60	90	14x4					
15	3	16	65	95	14x4					
20	3	20	75	105	14x4					
25	3	26	85	115	14x4					
32	3	32	100	140	18x4					
40	3	38	110	150	18x4					
50	3	50	125	165	18x4					
65	4	66	145	185	18x4					
80	4	81	160	200	18x8					
100	4	100	180	220	18x8					
125	4	125	210	250	18x8					
150	4	150	240	285	22x8					



Pipe unions Rohrverbindungen

Flange connection PN 16
Flanschverbindung PN 16

20740

DIN 2633

Description
Beschreibung



Flange connection PN 16 DIN 2633

- Simple installation
- Easy gasket exchange

Flanschverbindung PN 16 DIN 2633

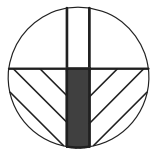
- Einfache installation
- Einfache die Dichtung austauschen

Dimensions / Baumaße: DN 10 - DN 150

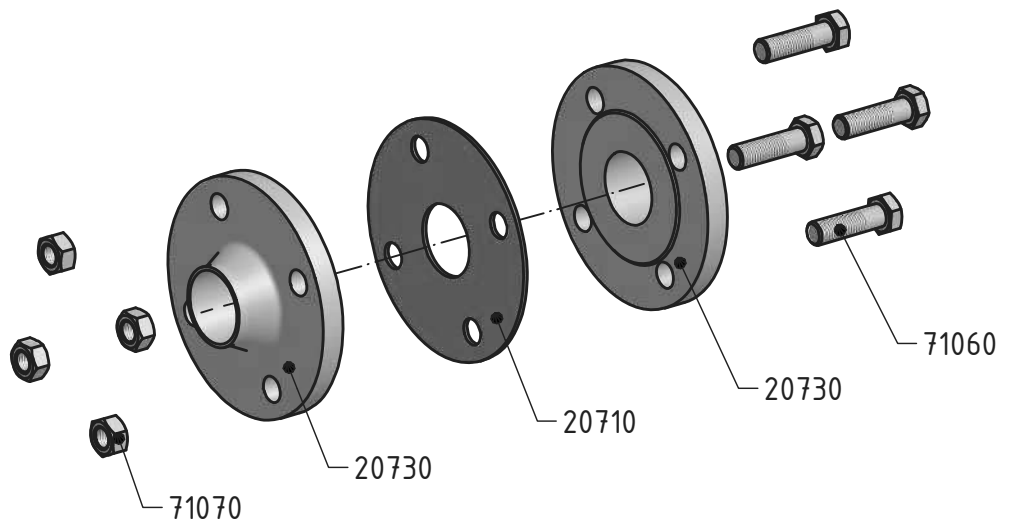
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtring: NBR
EPDM
Viton

Komponents / Komponenten



Detail gasket
Detail der Dichtung



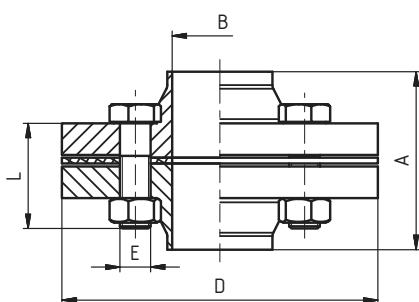
Standard gasket / Standard Dichtring - NBR

Flange connection PN 16 - complete
Flanschverbindung PN 16 - komplett

20740

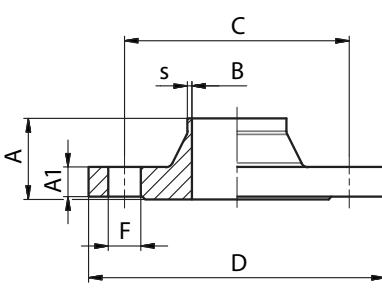
DIN 2633

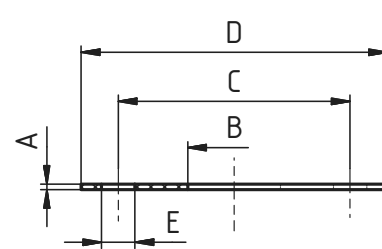
Dimensions • Baumaße

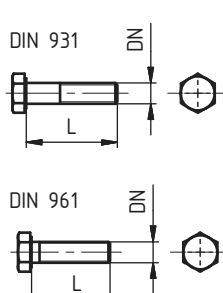



DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	73	10		90	4 x M14			45		1,16
15	73	16		95	4 x M14			45		1,30
20	79	20		105	4 x M14			45		1,90
25	79	26		115	4 x M14			50		2,28
32	83	32		140	4 x M18			50		3,20
40	88	38		150	4 x M18			50		3,60
50	94	50		165	4 x M18			55		5,06
65	94	66		185	4 x M18			55		6,12
80	104	81		200	8 x M18			60		7,40
100	108	100		220	8 x M18			60		9,24
125	114	125		250	8 x M18			65		12,60
150	114	150		285	8 x M22			70		15,5

Pipe unions Rohrverbindungen

Flange PN 16 Flansch PN 16	20730	Dimensions • Baumaße										
	DIN 2633	DN	A	A1	B	C	D	F	s			kg
	10	35	14	10	60	90	14x4	1,5			0,58	
	15	35	14	16	65	95	14x4	1,5			0,65	
	20	38	16	20	75	105	14x4	1,5			0,95	
	25	38	16	26	85	115	14x4	1,5			1,14	
	32	40	16	32	100	140	18x4	1,5			1,60	
	40	42	16	38	110	150	18x4	1,5			1,80	
	50	45	18	50	125	165	18x4	1,5			2,53	
	65	45	18	66	145	185	18x4	2			3,06	
	80	50	20	81	160	200	18x8	2			3,70	
	100	52	20	100	180	220	18x8	2			4,62	
	125	55	22	125	210	250	18x8	2			6,30	
150	55	22	150	240	285	22x8	2			7,75		

Flat seal for flange PN 16 Flanschdichtung PN 16	20710	Dimensions • Baumaße										
	DIN 2633	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	3	10	60	90	14x4						
	15	3	16	65	95	14x4						
	20	3	20	75	105	14x4						
	25	3	26	85	115	14x4						
	32	3	32	100	140	18x4						
	40	3	38	110	150	18x4						
	50	3	50	125	165	18x4						
	65	4	66	145	185	18x4						
	80	4	81	160	200	18x8						
	100	4	100	180	220	18x8						
	125	4	125	210	250	18x8						
150	4	150	240	285	22x8							

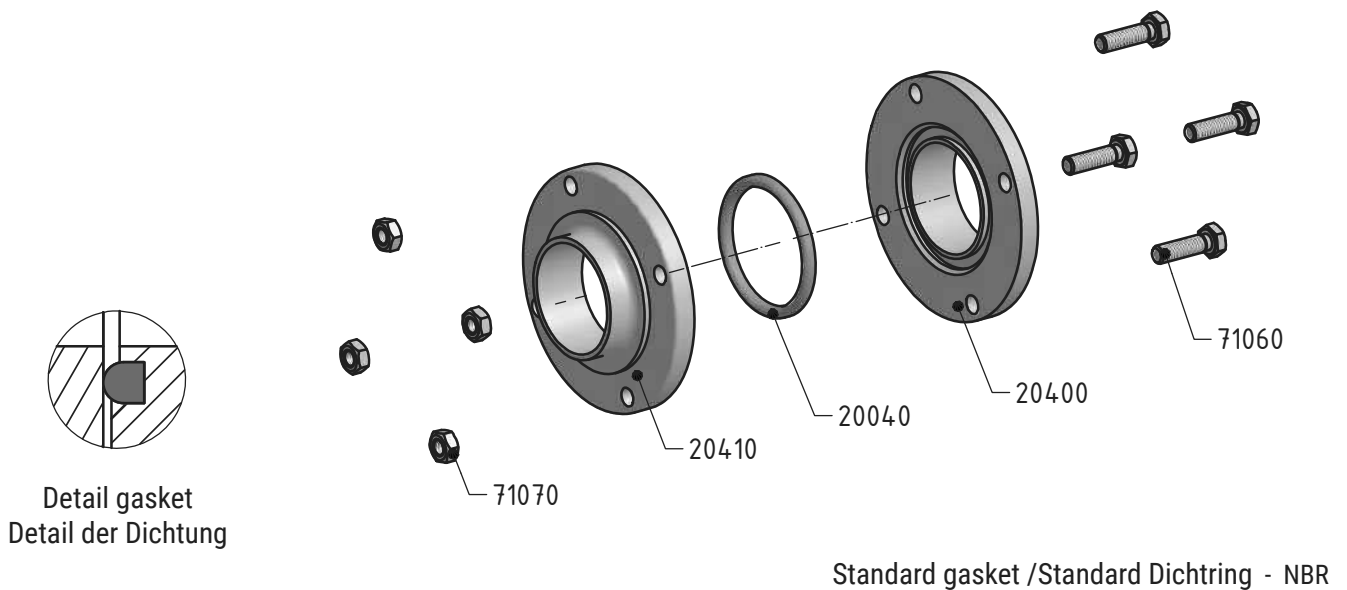
Bolt Schraube	71060	Dimensions • Baumaße										
	DIN 931, 961	DN	A	B	L						thread DIN 405 Rd x s	kg
	M8				30, 35, 40, 45, 50, 55, 60, 65, 70, 80, 90, 100							
	M10				30, 35, 40, 45, 50, 55, 60, 65, 70, 80, 90, 100							
	M12				30, 35, 40, 45, 50, 55, 60, 65, 70, 80, 90, 100							
	M14				30, 35, 40, 45, 50, 55, 60, 65, 70, 80, 90, 100							
	M16				30, 35, 40, 45, 50, 55, 60, 65, 70, 80, 90, 100							
	M18				30, 35, 40, 45, 50, 55, 60, 65, 70, 80, 90, 100							
	M22				30, 35, 40, 45, 50, 55, 60, 65, 70, 80, 90, 100							

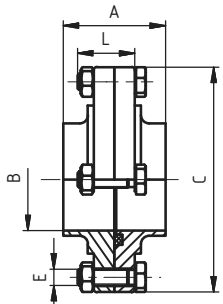
Nut Mutter	71070	Dimensions • Baumaße										
	DIN 934	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	M8											
	M10											
	M12											
	M14											
	M16											
	M18											
	M22											

Pipe unions Rohrverbindungen

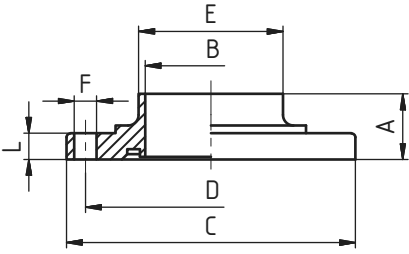
Flange connection complete PN 10 Flanschverbindung komplett PN10	20420	Description Beschreibung
		Flange connection PN 10 - Simple instalation - Easy gasket exchange Flanschverbindung PN 10 - Einfache installation - Einfache die Dichtung austauschen Dimensions / Baumaße: DN 10 - DN 150 Material / Material: 1.4301 (AISI 304) 1.4404 (AISI 316L) Gasket / Dichtring: NBR EPDM Viton

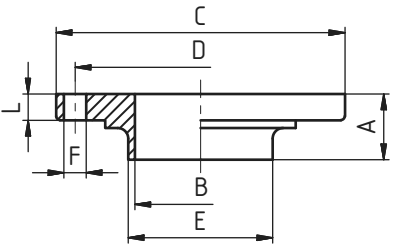
Komponents / Komponenten

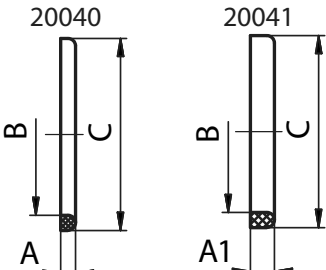


Flange connection PN 10 - complete Flanschverbindung PN 10 - komplett	20420	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	40	10	62		4 x M8			25		0,40
		15	40	16	68		4 x M8			25		0,52
		20	40	20	75		4 x M8			30		0,58
		25	40	26	87		4 x M8			30		0,78
		32	40	32	92		4 x M8			30		0,92
		40	50	38	97		4 x M8			30		0,94
		50	50	50	110		4 x M8			30		1,18
		65	50	66	127		4 x M8			30		1,50
		80	60	81	142		4 x M8			30		2,56
		100	60	100	162		4 x M8			30		3,44
		125	80	125	200		6 x M10			40		5,74
		150	90	150	230		6 x M10			40		7,70

Pipe unions Rohrverbindungen

Flange PN 10 with groove Kleinflansch PN mit Nut	20400		Dimensions • Baumaße								
	DN	A	B	C	D	E	F	R	L	kg	
	10	20	10	62	44	15	8,5x4		10	0,20	
	15	20	16	68	50	21	8,5x4		10	0,26	
	20	20	20	75	59	25	8,5x4		10	0,29	
	25	20	26	87	73	31	8,5x4		10	0,39	
	32	20	32	92	78	37	8,5x4		10	0,46	
	40	25	38	97	82,5	43	8,5x4		10	0,47	
	50	25	50	110	95,5	55	8,5x4		10	0,59	
	65	25	66	127	112,5	72	8,5x4		10	0,75	
	80	30	81	142	127,5	87	8,5x4		16	1,28	
	100	30	100	162	147,5	106	8,5x4		16	1,72	
	125	40	125	200	180	132	11x6		16	2,87	
	150	45	150	230	210	157	11x6		16	3,85	

Flange PN 10 without groove Kleinflansch PN ohne Nut	20410		Dimensions • Baumaße								
	DN	A	B	C	D	E	F	R	L	kg	
	10	20	10	62	44	15	8,5x4		10	0,20	
	15	20	16	68	50	21	8,5x4		10	0,26	
	20	20	20	75	59	25	8,5x4		10	0,29	
	25	20	26	87	73	31	8,5x4		10	0,39	
	32	20	32	92	78	37	8,5x4		10	0,46	
	40	25	38	97	82,5	43	8,5x4		10	0,47	
	50	25	50	110	95,5	55	8,5x4		10	0,59	
	65	25	66	127	112,5	72	8,5x4		10	0,75	
	80	30	81	142	127,5	87	8,5x4		16	1,28	
	100	30	100	162	147,5	106	8,5x6		16	1,72	
	125	40	125	200	180	132	11x6		16	2,87	
	150	45	150	230	210	157	11x6		16	3,85	

Gasket Dichtring	20400		20410		Dimensions • Baumaße						
	DN	A	A1	B	C	kg	F	R	L	thread DIN 405 Rd x s	kg
	10	4		12	20	0,0012					0,0012
	15	4		18	26	0,0016					0,0016
	20	4		23	33	0,0026					0,0026
	25	5	8	30	40	0,0036					0,0036
	32	5	8	36	46	0,0040					0,0040
	40	5	8	42	52	0,0048					0,0048
	50	5	8	54	64	0,0062					0,0062
	65	5	8	71	81	0,0070					0,0070
	80	5	8	85	95	0,0080					0,0080
	100	6	8	104	114	0,0134					0,0134
	125	7	8	130	142	0,0236					0,0236
	150	7	8	155	167	0,0276					0,0276

Pipe unions Rohrverbindungen

Hygienic flange connection PN10
Hygiene flanschverbindung PN 10

22870

Description
Beschreibung

DIN 11 853

Hygienic flange connection PN10 DIN 11853

- Simple instalation
- Easy gasket exchange

Hygiene flanschverbindung PN 10 DIN 11853

- Einfache installation
- Einfache die Dichtung austauschen

Dimensions / Baumaße: DN 10 - DN 150

Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

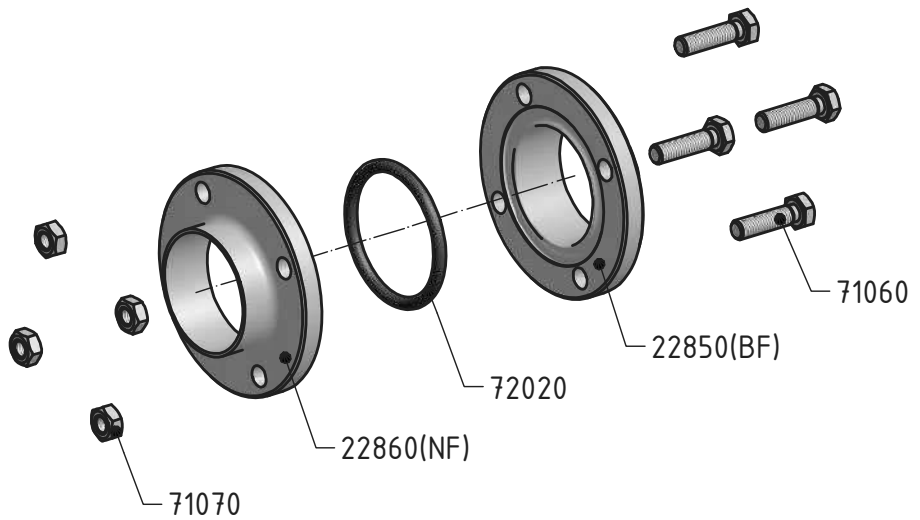
Gasket / Dichtring: EPDM
Viton



Komponents / Komponenten



Detail gasket
Detail der Dichtung



Standard gasket /Standard Dichtring - EPDM

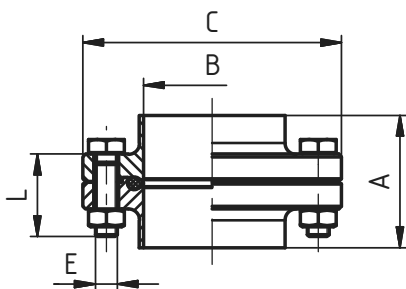
Hygienic flange connection PN10 - complete

22870

Dimensions • Baumaße

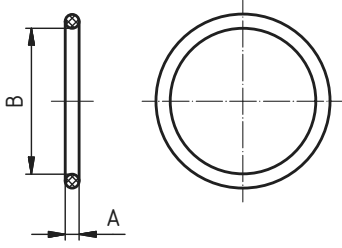
Hygiene flanschverbindung PN 10 -komplett

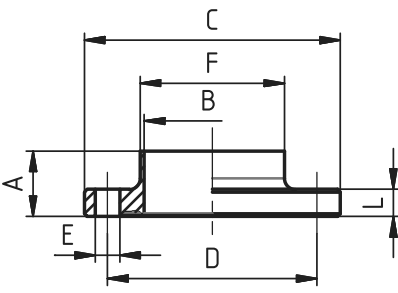
DIN 11 853

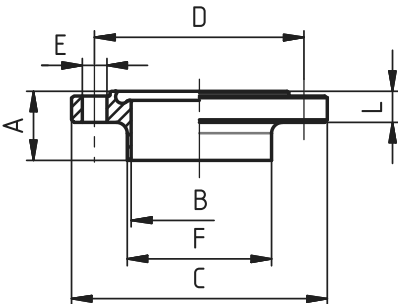


DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	48	10	54		4 x M8			25		0,41
15	48	16	59		4 x M8			25		0,46
20	48	20	64		4 x M8			25		0,52
25	48	26	70		4 x M8			25		0,60
32	48	32	76		4 x M8			25		0,66
40	48	38	82		4 x M8			25		0,73
50	48	50	94		4 x M8			25		0,87
65	48	66	113		8 x M8			25		1,21
80	52	81	133		8 x M10			30		1,96
100	52	100	159		8 x M10			35		2,97
125	56	125	183		8 x M10			35		3,47
150	56	150	213		8 x M12			40		5,02

Pipe unions Rohrverbindungen

Gasket - O-ring Dichtring - O-ring	72020	Dimensions • Baumaße										
	DIN 11 853 DIN 11 864	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	3,5	12									0,0012
	15	3,5	18									0,0016
	20	3,5	22									0,0026
	25	3,5	28									0,0036
	32	5	34									0,0040
	40	5	40									0,0048
	50	5	52									0,0062
	65	5	68									0,0070
	80	5	83									0,0080
	100	5	102									0,0134
	125	5	127									0,0236
	150	5	152									0,0276

Hygienic flange "BF" Hygiene Bundflansch "BF"	22850 (BF)	Dimensions • Baumaße										
	DIN 11 853	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	24	10	54	37	9x4	13			10		0,16
	15	24	16	59	42	9x4	19			10		0,18
	20	24	20	64	47	9x4	23			10		0,21
	25	24	26	70	53	9x4	29			10		0,25
	32	24	32	76	59	9x4	35			10		0,28
	40	24	38	82	65	9x4	41			10		0,32
	50	24	50	94	77	9x4	53			10		0,39
	65	24	66	113	95	9x8	70			10		0,52
	80	26	81	133	112	11x8	85			12		0,80
	100	26	100	159	137	11x8	104			14		1,29
	125	28	125	183	161	11x8	129			14		1,54
	150	28	150	213	188	14x8	154			16		2,19

Hygienic flange "NF" Hygiene Bundflansch "NF"	22860 (NF)	Dimensions • Baumaße										
	DIN 11 853	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	25,5	10	54	37	9x4	13			11,5		0,16
	15	25,5	16	59	42	9x4	19			11,5		0,18
	20	25,5	20	64	47	9x4	23			11,5		0,21
	25	25,5	26	70	53	9x4	29			11,5		0,25
	32	25,5	32	76	59	9x4	35			11,5		0,28
	40	25,5	38	82	65	9x4	41			11,5		0,32
	50	25,5	50	94	77	9x4	53			11,5		0,39
	65	25,5	66	113	95	9x8	70			11,5		0,52
	80	27,5	81	133	112	11x8	85			13,5		0,80
	100	27,5	100	159	137	11x8	104			15,5		1,29
	125	29,5	125	183	161	11x8	129			15,5		1,54
	150	29,5	150	213	188	14x8	154			17,5		2,19

Pipe unions Rohrverbindungen

Aseptic flange connection PN 10
Aseptic flanschverbindung PN 10

22930
DIN 11 864-2-A

Description
Beschreibung



Aseptic flange connection PN 10 DIN 11864
- Simple installation
- Easy gasket exchange

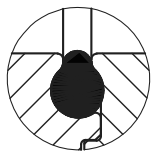
Aseptic flanschverbindung PN 10 DIN 11864
- Einfache installation
- Einfache die Dichtung austauschen

Dimensions / Baumaße: DN 10 - DN 150

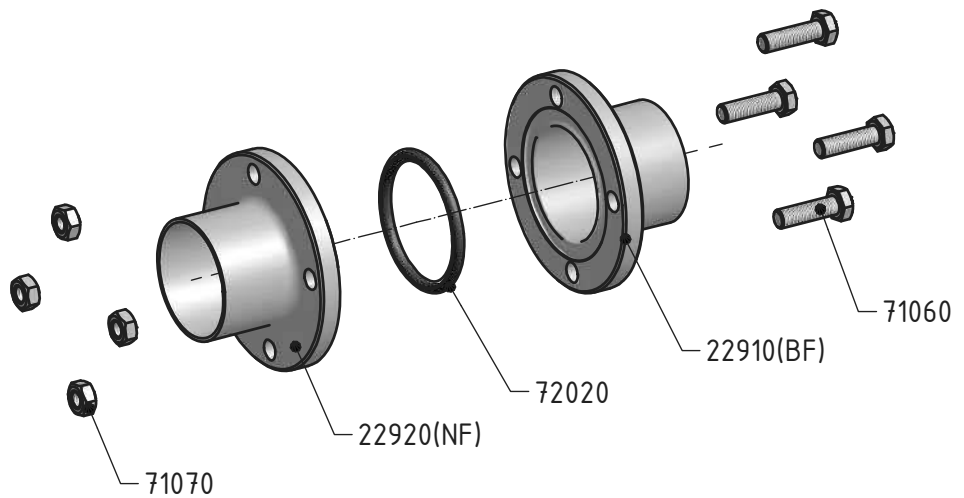
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtring: EPDM
Viton

Komponents / Komponenten



Detail gasket
Detail der Dichtung



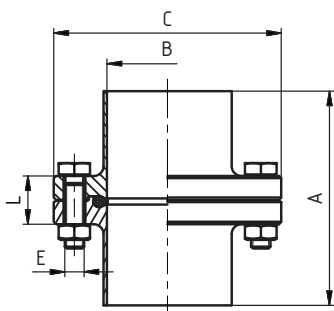
Standard gasket /Standard Dichtring - EPDM

Aseptic flange connection PN10 - complete
Aseptic flanschverbindung PN 10 - komplett

22930

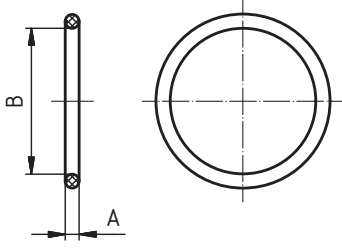
Dimensions • Baumaße

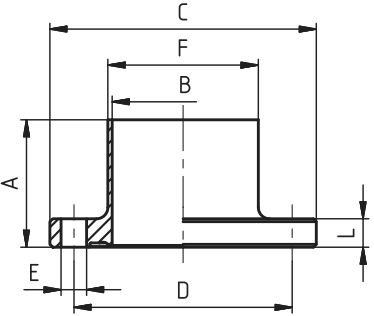
DIN 11 864-2-A

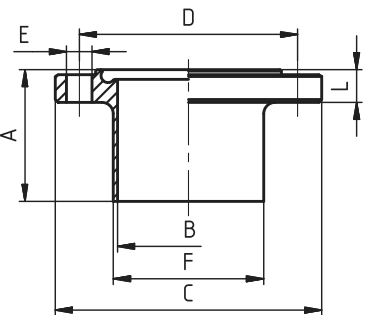


DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	80	10	54		4 x M8			25		
15	80	16	59		4 x M8			25		
20	80	20	64		4 x M8			25		
25	80	26	70		4 x M8			25		
32	90	32	76		4 x M8			25		
40	90	38	82		4 x M8			25		
50	90	50	94		4 x M8			25		
65	108	66	113		8 x M8			25		
80	116	81	133		8 x M10			30		
100	116	100	159		8 x M10			35		
125	120	125	183		8 x M10			35		
150	120	150	213		8 x M12			40		

Pipe unions Rohrverbindungen

Gasket - O-ring Dichtring - O-ring	72020	Dimensions • Baumaße										
	DIN 11 853 DIN 11 864	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	3,5	12									0,0012
	15	3,5	18									0,0016
	20	3,5	22									0,0026
	25	3,5	28									0,0036
	32	5	34									0,0040
	40	5	40									0,0048
	50	5	52									0,0062
	65	5	68									0,0070
	80	5	83									0,0080
	100	5	102									0,0134
	125	5	127									0,0236
	150	5	152									0,0276

Welding aseptic flange "NF" Aseptic Bundflansch "NF"	22910 (BF)	Dimensions • Baumaße										
	DIN 11 864-2-A	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	40	10	54	37	9x4	13			10		0,16
	15	40	16	59	42	9x4	19			10		0,18
	20	40	20	64	47	9x4	23			10		0,21
	25	40	26	70	53	9x4	29			10		0,25
	32	45	32	76	59	9x4	35			10		0,28
	40	45	38	82	65	9x4	41			10		0,32
	50	45	50	94	77	9x4	53			10		0,39
	65	54	66	113	95	9x8	70			10		0,52
	80	58	81	133	112	11x8	85			12		0,80
	100	58	100	159	137	11x8	104			14		1,29
	125	60	125	183	161	11x8	129			14		1,54
	150	60	150	213	188	14x8	154			16		2,19

Welding aseptic neck "NF" Aseptic Bundflansch "NF"	22920 (NF)	Dimensions • Baumaße										
	DIN 11 864-2-A	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	41,5	10	54	37	9x4	13			11,5		0,16
	15	41,5	16	59	42	9x4	19			11,5		0,18
	20	41,5	20	64	47	9x4	23			11,5		0,21
	25	41,5	26	70	53	9x4	29			11,5		0,25
	32	46,5	32	76	59	9x4	35			11,5		0,28
	40	46,5	38	82	65	9x4	41			11,5		0,32
	50	46,5	50	94	77	9x4	53			11,5		0,39
	65	55,5	66	113	95	9x8	70			11,5		0,52
	80	59,5	81	133	112	11x8	85			13,5		0,80
	100	59,5	100	159	137	11x8	104			15,5		1,29
	125	61,5	125	183	161	11x8	129			15,5		1,54
	150	61,5	150	213	188	14x8	154			17,5		2,19

Pipe unions Rohrverbindungen

Clamp union S DIN 11964-3
Clampverbindungen S DIN 11864-3

22970
DIN 11864-3

Description
Beschreibung



Clamp union - S - DIN 11864-3

- Simple instalation
- Easy gasket exchange

Clampverbindung - S - DIN 11864-3

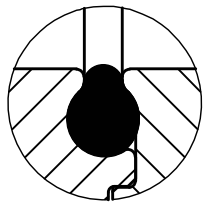
- Einfache die Dichtung austauschen
- Einfache Installation

Dimensions / Baumaße: DN 10 - DN 100

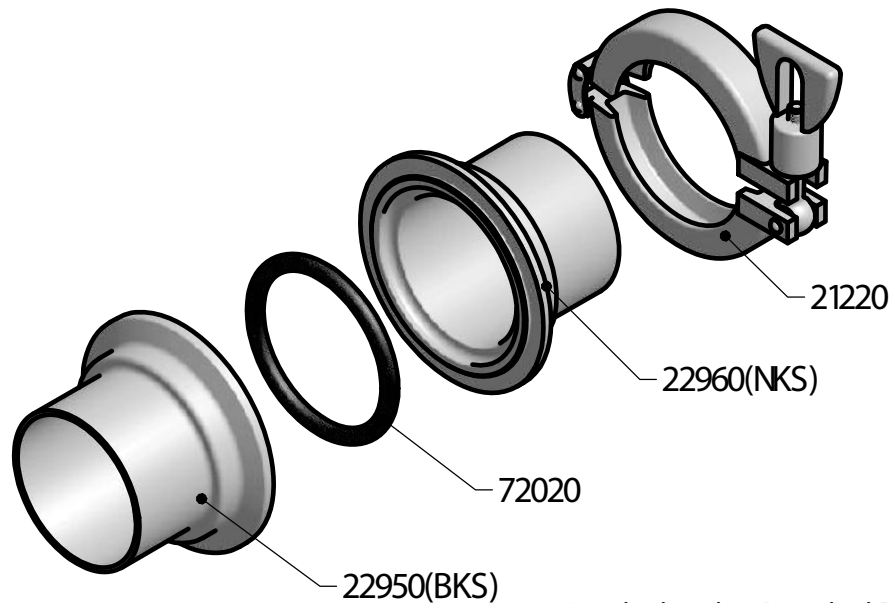
Material / Material: 1.4404 (AISI 316L)

Gasket / Dichtring: Silikon, EPDM, PTFE / Viton

Komponents / Komponenten



Detail gasket
Detail der Dichtung



Standard gasket / Standard Dichtring
- Silikon, EPDM, PTFE - Viton

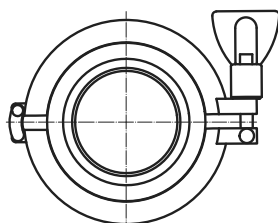
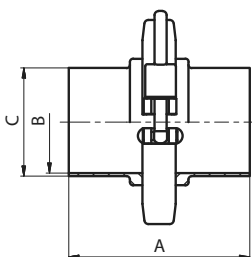
Clamp union S DIN 11964-3
- complete
Clampverbindungen S DIN 11864-3
- komplett

22970

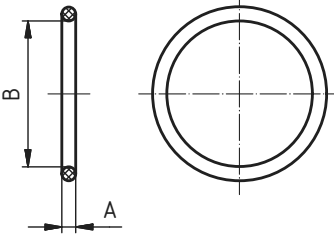
Dimensions · Baumaße

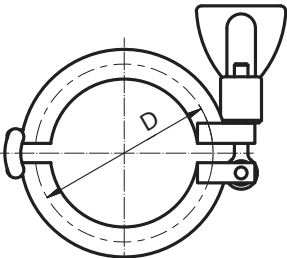
DIN 11864-3

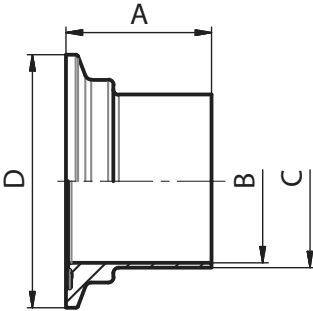
DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	77,5	10	13							
15	77,5	16	19							
20	77,5	20	23							
25	78,5	26	29							
32	89,5	32	35							
40	89,5	38	41							
50	90,5	50	53							
65	114,5	66	70							
80	118,5	81	85							
100	121,5	100	104							

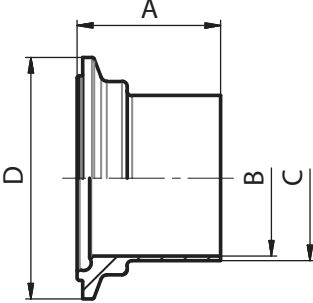


Pipe unions Rohrverbindungen

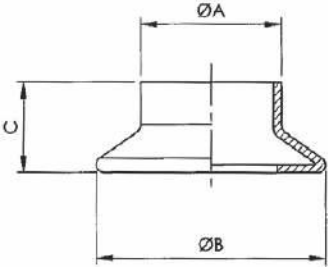
Gasket - O-ring Dichtring - O-ring	72020	Dimensions • Baumaße										
	DIN 11864-3	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	3,5	12									0,0012
	15	3,5	18									0,0016
	20	3,5	22									0,0026
	25	3,5	28									0,0036
	32	5	34									0,0040
	40	5	40									0,0048
	50	5	52									0,0062
	65	5	68									0,0070
	80	5	83									0,0080
	100	5	102									0,0134
	125	5	127									0,0236
	150	5	152									0,0276

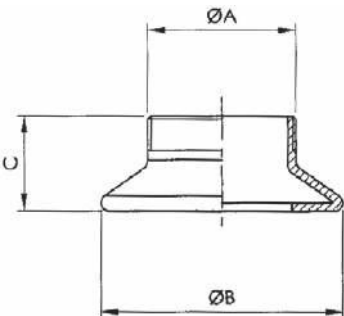
Clamp TC-Klammer leichte Ausführung	21220	Dimensions • Baumaße						
	DIN 11864-3	DN	SMS	DIN	C	D		kg
	1/2"	12,7	-			25		
	3/4"	19,05	-			25		
	15	-	15			34		
	20	-	20			34		
	1"	25	25			50,5		
	32	-	32			-		
	1 1/2"	38	40			50,5		
	2"	51	50			64		
	65	-	65			91		
	2 1/2"	63,5	-			77,5		
3"	76	80			106			
4"	101,6	100			119			

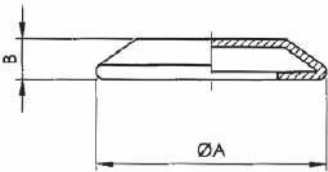
Clamp ferrule S (BKS) Klampstutzen S (BKS)	22950 (BKS)	Dimensions • Baumaße										
	DIN 11864-3	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	38	10	13	34							
	15	38	16	19	34							
	20	38	20	23	50,5							
	25	38,5	26	29	50,5							
	32	44	32	35	50,5							
	40	44	38	41	64							
	50	44,5	50	53	77,5							
	65	56,5	66	70	91							
	80	58,5	81	85	106							
	100	60	100	104	130							

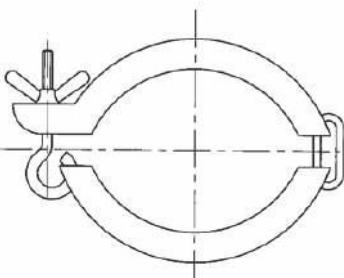
Clamp ferrule S (NKS) Klampstutzen S (NKS)	22960 (NKS)	Dimensions • Baumaße										
	DIN 11864-3	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	39,5	10	13	34							
	15	39,5	16	19	34							
	20	39,5	20	23	50,5							
	25	40	26	29	50,5							
	32	45,5	32	35	50,5							
	40	45,5	38	41	64							
	50	46	50	53	77,5							
	65	58	66	70	91							
	80	60	81	85	106							
	100	61,5	100	104	130							

Pipe unions Rohrverbindungen

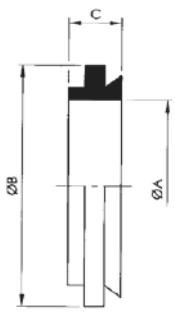
Long welding garolla fitting Anschw. Garollastutzen zoll	23400	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	40	41	65	31								0,12
	50	46	76	34								0,20
	60	58	87	35								0,20
	70	73	97	35								0,24
	80	86	108	36								0,28
	100	101	129	40								
	125	124	158	46								

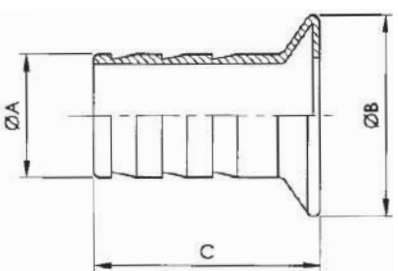
Half garolla fitting BSP ext. thread Garollastutzen mit ISO außengewinde	23440	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	40	1 1/4" G	65	31								
	50	1 1/2" G	76	34								
	60	2" G	87	35								
	70	2 1/2" G	97	35								
	80	3" G	108	36								
	100	4" G	129	40								
	120	5" G	158	46								

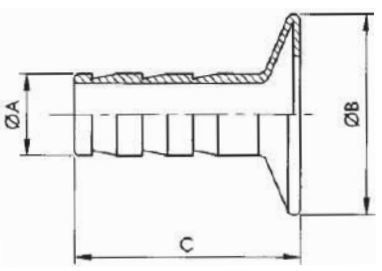
Garolla cap Klemmstöpsel	23480	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	40	65	19									0,10
	50	76	19									0,14
	60	87	19									
	70	97	19									
	80	108	19									
	100	129	20									0,38
	125	158	25									

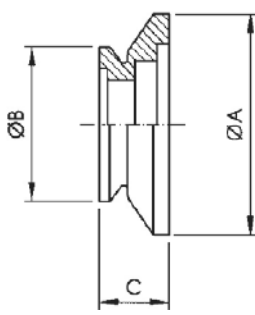
Clamp for connectors Klemmen für anschluss	23520	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	SW	thread DIN 405 Rd x s	kg
	40											0,26
	50											0,28
	60											0,28
	70											0,30
	80											0,36
	100											0,40
	120											

Pipe unions Rohrverbindungen

Winery sealing ring Dichtung	2352 B	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	SW	thread DIN 405 Rd x s	kg
		40	40	62								0,018
		50	50	72								0,018
		60	60	82								0,028
		70	70	94								0,040
		80	80	104								0,040
		100	100	124								
		120	120	154								

Garolla hose holder Halber klemmaschluss	23600	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		40	40	65	80							0,22
		50	50	76	90							0,32
		60	60	87	95							
		70	70	97	100							0,44
		80	80	108	120							0,54
		100	100	129	140							
		120	120	158	150							

Garolla hose holder for reduction Reduziert schlauchgarollastutzen	23640	Dimensions • Baumaße									
		DN	A	B	C	L	thread DIN 405 Rd x s	kg			
		40	40 x 20 - 40 x 25 - 40 x 30 - 40 x 35	65	80						
		50	50 x 20 - 50 x 25 - 50 x 30 - 50 x 35	76	90						
		60	60 x 30 - 60 x 35 - 60 x 40 - 60 x 50	87	95						
		70	70 x 35 - 70 x 40 - 70 x 50 - 70 x 60	97	100						
		80	80 x 40 - 80 x 50 - 80 x 60 - 80 x 70	108	120						
		100	100 x 50 - 100 x 60 - 100 x 70 - 100 x 80	129	140						
		120	120 x 80 - 120 x 100	158	150						

Garolla reduction Garolla-reduzierstück	23680	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s
		50/40	76	65	55						
		60/50	87	76	60						
		70/50	98	76	62						
		70/60	98	87	64						
		80/70	108	98	68						
		100/70	129	98	70						
		100/80	129	108	75						
	120/100	158	129	85							

PRODUCER OF STAINLESS PIPING SYSTEMS
HERSTELLER VON EDELSTAHLARMATUREN

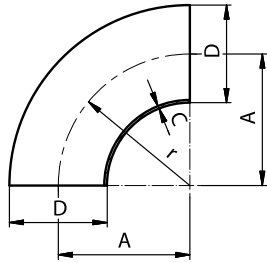
FITTINGS

ROHRFORMSTÜCKE

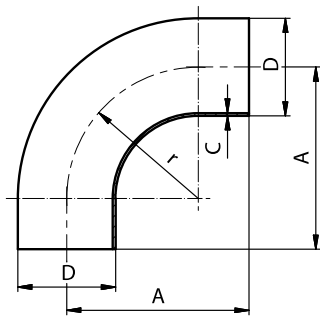


Fittings Rohrformstücke

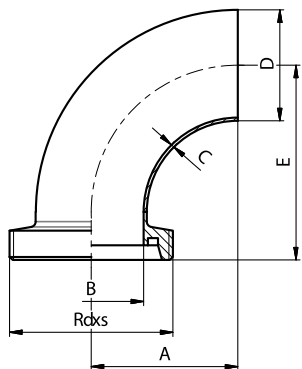
Bend 90° S - S Bogen 90° S - S	30010	Dimensions • Baumaße									
		DN	D	A	C	r					kg
	10	12	26	1,5	26						0,02
	10	13	26	1,5	26						0,02
	15	18	35	1,5	35						0,04
	15	19	35	1,5	35						0,04
	20	22	40	1,5	40						0,04
	20	23	40	1,5	40						0,08
	25	28	50	1,5	50						0,08
	25	29	50	1,5	50						0,08
	32	34	55	1,5	55						0,10
	32	35	55	1,5	55						0,10
	40	40	60	1,5	60						0,20
	40	41	60	1,5	60						0,20
	50	52	70	1,5	70						0,20
	50	53	70	1,5	70						0,20
	65	70	80	2,0	80						0,40
	80	85	90	2,0	90						0,56
	100	104	100	2,0	100						0,76
	125	129	187,5	2,0	187,5						1,64
	150	154	225	2,0	225						2,60



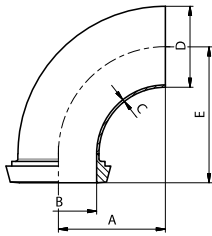
Bend 90° W - W Bogen 90° W - W	30020	Dimensions • Baumaße									
		DN	D	A	C	r					kg
	10	12	38	1,5	26						0,02
	10	13	38	1,5	26						0,02
	15	18	47	1,5	35						0,04
	15	19	47	1,5	35						0,04
	20	22	52	1,5	40						0,06
	20	23	52	1,5	40						0,06
	25	28	70	1,5	50						0,12
	25	29	70	1,5	50						0,12
	32	34	78	1,5	52						0,16
	32	35	78	1,5	52						0,16
	40	40	90	1,5	60						0,20
	40	41	90	1,5	60						0,20
	50	52	100	1,5	72						0,28
	50	53	100	1,5	72						0,28
	65	70	110	2,0	85						0,56
	80	85	130	2,0	93						0,78
	100	104	150	2,0	110						1,10

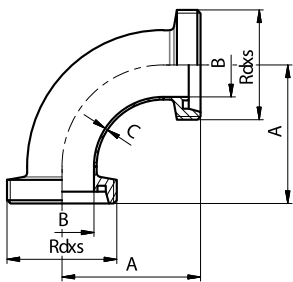


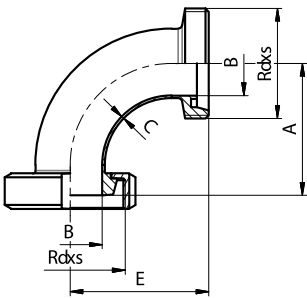
Bend 90° G - S Bogen 90° G - S	30040	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	26	10	1,5	13	43					28x1/8	0,06
	15	35	16	1,5	19	52					34x1/8	0,08
	20	40	20	1,5	23	59					44x1/6	0,12
	25	50	26	1,5	29	72					52x1/6	0,18
	32	55	32	1,5	35	77					58x1/6	0,22
	40	60	38	1,5	41	82					65x1/6	0,36
	50	70	50	1,5	53	93					78x1/6	0,42
	65	80	66	2,0	70	105					95x1/6	0,74
	80	90	81	2,0	85	116					110x1/4	1,06
	100	100	100	2,0	104	130					130x1/4	1,50
	125	187,5	125	2,0	129	223					160x1/4	1,75
	150	225	150	2,0	154	265					190x1/4	2,01

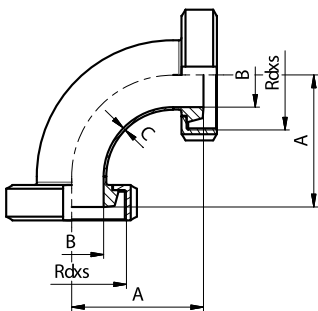


Fittings Rohrformstücke

Bend 90° K - S Bogen 90° K - S	30050	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	26	10	1,5	13	40						0,04
	15	35	16	1,5	19	49						0,06
	20	40	20	1,5	23	56						0,10
	25	50	26	1,5	29	68						0,16
	32	55	32	1,5	35	73						0,20
	40	60	38	1,5	41	78						0,34
	50	70	50	1,5	53	89						0,40
	65	80	66	2,0	70	101						0,72
	80	90	81	2,0	85	111						1,04
	100	100	100	2,0	104	125						1,48
	125	187,5	125	2,0	129	214,5						1,73
	150	225	150	2,0	154	254						1,89

Bend 90° G - G Bogen 90° G - G	30060	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	43	10	1,5							28x1/8	0,10
	15	52	16	1,5							34x1/8	0,15
	20	59	20	1,5							44x1/6	0,26
	25	72	26	1,5							52x1/6	0,35
	32	77	32	1,5							58x1/6	0,41
	40	82	38	1,5							65x1/6	0,51
	50	93	50	1,5							78x1/6	0,72
	65	105	66	2,0							95x1/6	1,06
	80	116	81	2,0							110x1/4	1,73
	100	130	100	2,0							130x1/4	2,18
	125	223	125	2,0							160x1/4	4,21
	150	265	150	2,0							190x1/4	6,66

Bend 90° K/M - G Bogen 90° K/M - G	30070	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	40	10	1,5		43					28x1/8	0,16
	15	49	16	1,5		52					34x1/8	0,21
	20	56	20	1,5		59					44x1/6	0,34
	25	68	26	1,5		72					52x1/6	0,47
	32	73	32	1,5		77					58x1/6	0,57
	40	78	38	1,5		82					65x1/6	0,70
	50	89	50	1,5		93					78x1/6	0,97
	65	101	66	2,0		105					95x1/6	1,52
	80	111	81	2,0		115					110x1/4	2,23
	100	125	100	2,0		130					130x1/4	3,01
	125	214,5	125	2,0		223					160x1/4	4,21
	150	254	150	2,0		265					190x1/4	8,01

Bend 90° K/M - K/M Bogen 90° K/M - K/M	30080	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	40	10	1,5							28x1/8	0,21
	15	49	16	1,5							34x1/8	0,27
	20	56	20	1,5							44x1/6	0,42
	25	68	26	1,5							52x1/6	0,63
	32	73	32	1,5							58x1/6	0,73
	40	78	38	1,5							65x1/6	0,87
	50	89	50	1,5							78x1/6	1,23
	65	101	66	2,0							95x1/6	1,99
	80	111	81	2,0							110x1/4	2,73
	100	125	100	2,0							130x1/4	3,84
	125	214,5	125	2,0							160x1/4	6,37
	150	254	150	2,0							190x1/4	9,36

Fittings

Rohrformstücke

Bend 90° C - C Bogen 90° C - C	30090	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	r	L	Rd x s	kg
	10	38,7	10	1,5		34					0,08	
	15	47,7	16	1,5		34					0,09	
	20	52,7	20	1,5		34					0,10	
	25	62,7	26	1,5		50,5					0,20	
	32	67,7	32	1,5		50,5					0,23	
	40	72,7	38	1,5		50,5					0,28	
	50	82,7	50	1,5		64					0,32	
	65	92,7	66	2,0		91					0,62	
	80	102,7	81	2,0		106					0,92	
	100	115,8	100	2,0		119					1,13	

Bend 90° C - S Bogen 90° C - S	30091	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	r	L	Rd x s	kg
	10		10	1,5	13	34					0,04	
	15		16	1,5	19	34					0,05	
	20		20	1,5	23	34					0,06	
	25		26	1,5	29	50,5					0,08	
	32		32	1,5	35	50,5					0,10	
	40		38	1,5	41	50,5					0,11	
	50		50	1,5	53	64					0,15	
	65		66	2,0	70	91					0,34	
	80		81	2,0	85	106					0,46	
	100		100	2,0	104	119					0,56	

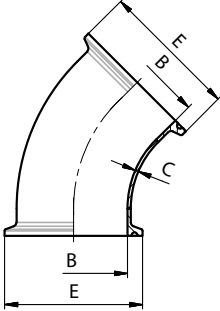
Fittings Rohrformstücke

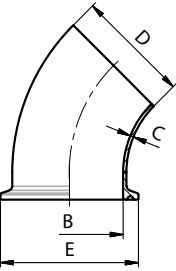
Bend 45° G - G Bogen 45° G - G	30150	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10		10	1,5							28x1/8	0,09
	15		16	1,5							34x1/8	0,13
	20		20	1,5							44x1/6	0,24
	25		26	1,5							52x1/6	0,31
	32		32	1,5							58x1/6	0,36
	40		38	1,5							65x1/6	0,44
	50		50	1,5							78x1/6	0,60
	65		66	2,0							95x1/6	0,95
	80		81	2,0							110x1/4	1,43
	100		100	2,0							130x1/4	1,77
	125		125	2,0							160x1/4	3,26
	150		150	2,0							190x1/4	5,31

Bend 45° K/M - G Bogen 45° K/M - G	30160	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10		10	1,5							28x1/8	0,15
	15		16	1,5							34x1/8	0,19
	20		20	1,5							44x1/6	0,32
	25		26	1,5							52x1/6	0,43
	32		32	1,5							58x1/6	0,52
	40		38	1,5							65x1/6	0,62
	50		50	1,5							78x1/6	0,86
	65		66	2,0							95x1/6	1,41
	80		81	2,0							110x1/4	1,93
	100		100	2,0							130x1/4	2,61
	125		125	2,0							160x1/4	4,34
	150		150	2,0							190x1/4	6,66

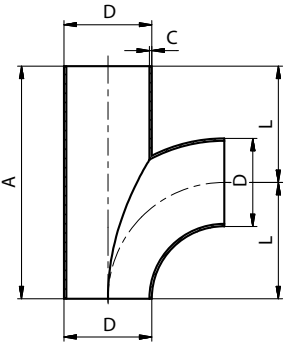
Bend 45° K/M - K/M Bogen 45° K/M - K/M	30170	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10		10	1,5							28x1/8	0,20
	15		16	1,5							34x1/8	0,25
	20		20	1,5							44x1/6	0,40
	25		26	1,5							52x1/6	0,56
	32		32	1,5							58x1/6	0,67
	40		38	1,5							65x1/6	0,81
	50		50	1,5							78x1/6	1,12
	65		66	2,0							95x1/6	1,88
	80		81	2,0							110x1/4	2,43
	100		100	2,0							130x1/4	3,44
	125		125	2,0							160x1/4	5,43
	150		150	2,0							190x1/4	8,01

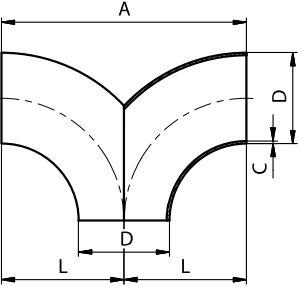
Fittings Rohrformstücke

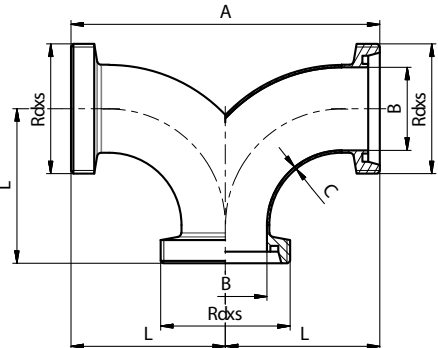
Bend 45° C - C Bogen 45° C - C	30190	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10		10	1,5		34						0,07
	15		16	1,5		34						0,08
	20		20	1,5		34						0,10
	25		26	1,5		50,5						0,12
	32		32	1,5		50,5						0,15
	40		38	1,5		50,5						0,15
	50		50	1,5		64						0,20
	65		66	2,0		91						0,47
	80		81	2,0		106						0,62
	100		100	2,0		119						0,72

Bend 45° S - C Bogen 45° S - C	30191	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10		10	1,5	13	34						0,04
	15		16	1,5	19	34						0,05
	20		20	1,5	23	34						0,06
	25		26	1,5	29	50,5						0,08
	32		32	1,5	35	50,5						0,10
	40		38	1,5	41	50,5						0,11
	50		50	1,5	53	64						0,15
	65		66	2,0	70	91						0,34
	80		81	2,0	85	106						0,46
	100		100	2,0	104	119						0,56

Fittings Rohrformstücke

Tee bend S - S - S T - Bogen S - S - S	30300	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	L	Rd x s
	15	70		1,5	18				35		0,07
	15	70		1,5	19				35		0,07
	20	80		1,5	22				40		0,08
	20	80		1,5	23				40		0,08
	25	100		1,5	28				50		0,14
	25	100		1,5	29				50		0,14
	32	110		1,5	34				55		0,18
	32	110		1,5	35				55		0,18
	40	120		1,5	40				60		0,23
	40	120		1,5	41				60		0,23
	50	140		1,5	52				70		0,34
	50	140		1,5	53				70		0,34
	65	160		2,0	70				80		0,51
	80	180		2,0	85				90		0,91
	100	200		2,0	104				100		1,21
125	375		2,0	129				187,5		3,14	
150	450		2,0	154				225		5,38	

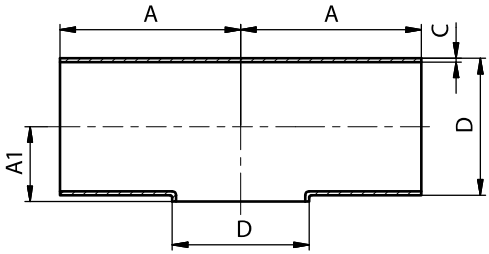
Double tee bend S - S - S T - Doppelbogen S - S - S	30320	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	L	Rd x s
	15	70		1,5	18				35		0,06
	15	70		1,5	19				35		0,06
	20	80		1,5	22				40		0,08
	20	80		1,5	23				40		0,08
	25	100		1,5	28				50		0,15
	25	100		1,5	29				50		0,15
	32	110		1,5	34				55		0,20
	32	110		1,5	35				55		0,20
	40	120		1,5	40				60		0,26
	40	120		1,5	41				60		0,26
	50	140		1,5	52				70		0,40
	50	140		1,5	53				70		0,40
	65	160		2,0	70				80		0,81
	80	180		2,0	85				90		1,12
	100	200		2,0	104				100		1,52
125	375		2,0	129				187,5		3,62	
150	450		2,0	154				225		5,22	

Double tee bend G - G - G T - Doppelbogen G - G - G	30330	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	L	Rd x s	kg
	25	144	26	1,5				72	52x1/6	0,55	
	32	154	32	1,5				77	58x1/6	0,66	
	40	164	38	1,5				82	65x1/6	0,82	
	50	186	50	1,5				93	78x1/6	1,14	
	65	210	66	2,0				105	95x1/6	1,92	
	80	230	81	2,0				116	110x1/4	2,83	
	100	260	100	2,0				130	130x1/4	3,57	
	125	446	125	2,0				223	160x1/4	7,11	
	150	530	150	2,0				265	190x1/4	11,15	

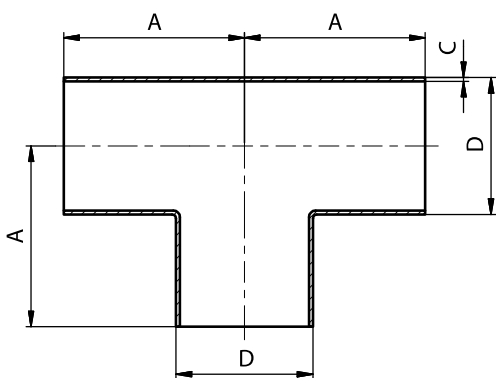
Fittings

Rohrformstücke

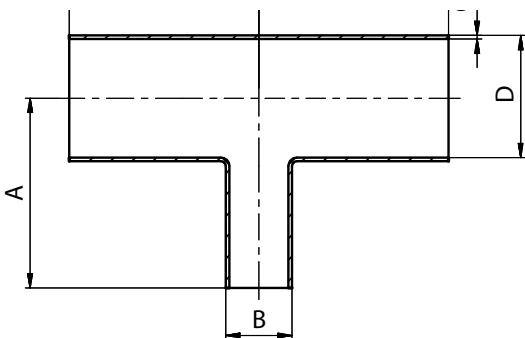
Tee S - S - S (short) T - Stück S - S - S (kurz)	30400	Dimensions • Baumaße										
		DN	A	A1	C	D	E	F	R	L	Rd x s	kg
		10	26	8	1,5	12						0,02
		10	26	8	1,5	13						0,02
		15	35	11	1,5	18						0,04
		15	35	11	1,5	19						0,04
		20	40	13	1,5	22						0,06
		20	40	13	1,5	23						0,06
		25	50	16	1,5	28						0,10
		25	50	16	1,5	29						0,10
		32	55	18	1,5	34						0,13
		32	55	18	1,5	35						0,13
		40	60	23	1,5	40						0,17
		40	60	23	1,5	41						0,17
		50	70	29	1,5	52						0,26
		50	70	29	1,5	53						0,26
		65	80	38	2,0	70						0,53
		80	90	45,5	2,0	85						0,72
		100	100	52	2,0	104						0,98
		125	187,5	66,5	2,0	129						2,32
		150	225	79	2,0	154						3,32

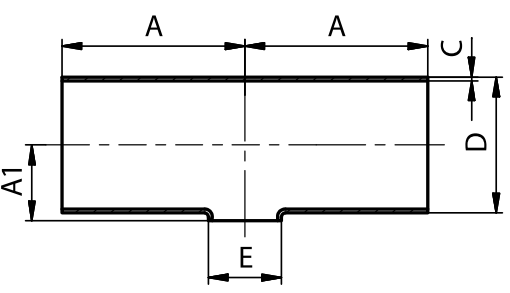


Tee S - S - S (long) T - Stück S - S - S (lang)	30410	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
		10	26		1,5	12						0,03
		10	26		1,5	13						0,03
		15	35		1,5	18						0,06
		15	35		1,5	19						0,06
		20	40		1,5	22						0,08
		20	40		1,5	23						0,08
		25	50		1,5	28						0,13
		25	50		1,5	29						0,13
		32	55		1,5	34						0,18
		32	55		1,5	35						0,18
		40	60		1,5	40						0,22
		40	60		1,5	41						0,22
		50	70		1,5	52						0,34
		50	70		1,5	53						0,34
		65	80		2,0	70						0,67
		80	90		2,0	85						0,91
		100	100		2,0	104						1,21
		125	187,5		2,0	129						3,08
		150	225		2,0	154						4,43

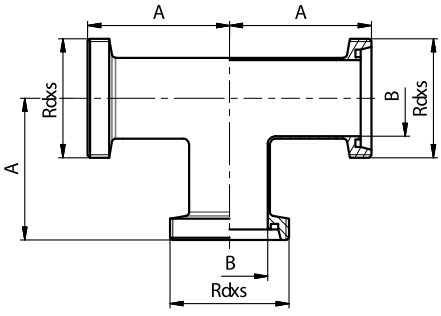


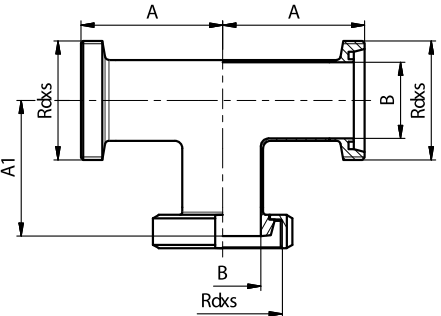
Fittings Rohrformstücke

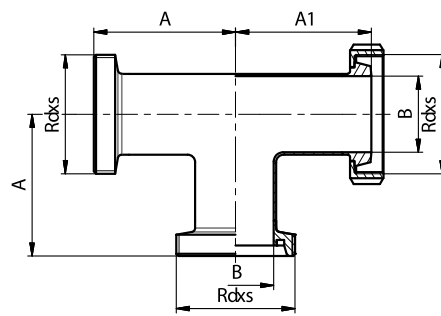
Tee S - S - S (long) T - Stück S - S - S (lang)	30430	Dimensions • Baumaße												
		DN	A	B	C	D			DN	A	B	C	D	E
	15/10	35	13	1,5	19			65/32	80	35	2	70		
	20/10	40	13	1,5	23			65/40	80	41	2	70		
	20/15	40	19	1,5	23			65/50	80	53	2	70		
	25/10	50	13	1,5	29			80/15	90	19	2	85		
	25/15	50	19	1,5	29			80/25	90	29	2	85		
	25/20	50	23	1,5	29			80/32	90	35	2	85		
	32/10	55	13	1,5	35			80/40	90	41	2	85		
	32/15	55	19	1,5	35			80/50	90	53	2	85		
	32/20	55	23	1,5	35			80/65	90	70	2	85		
	32/25	55	29	1,5	35			100/25	100	29	2	104		
	40/10	60	13	1,5	41			100/32	100	35	2	104		
	40/15	60	19	1,5	41			100/40	100	41	2	104		
	40/20	60	23	1,5	41			100/50	100	53	2	104		
	40/25	60	29	1,5	41			100/65	100	70	2	104		
	40/32	60	35	1,5	41			100/80	100	85	2	104		
	50/10	70	13	1,5	53			125/65	187,5	70	2	125		
	50/15	70	19	1,5	53			125/80	187,5	85	2	125		
	50/20	70	23	1,5	53			150/40	225	41	2	150		
	50/25	70	29	1,5	53			150/80	225	85	2	150		
	50/32	70	35	1,5	53			150/100	225	104	2	150		
	50/40	70	41	1,5	53			150/125	225	129	2	150		
	65/15	80	19	2	70									
	65/20	80	23	2	70									
	65/25	80	29	2	70									

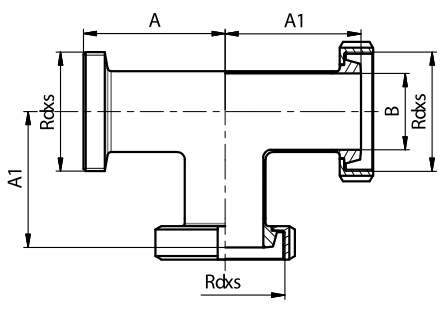
Tee S - S - S (reducing) T - Stück S - S - S (reduziert)	30440	Dimensions • Baumaße												
		DN	A	A1	C	D	E	kg	DN	A	A1	C	D	E
	15/10	35	11	1,5	19	13	0,04	65/32	80	38	2,0	70	35	0,49
	20/10	40	13	1,5	23	13	0,07	65/40	80	38	2,0	70	41	0,51
	20/15	40	13	1,5	23	19	0,07	65/50	80	38	2,0	70	53	0,51
	25/10	50	16	1,5	29	13	0,09	80/40	90	46	2,0	85	41	0,70
	25/15	50	16	1,5	29	19	0,10	80/50	90	46	2,0	85	53	0,68
	25/20	50	16	1,5	29	23	0,14	80/65	90	46	2,0	85	70	0,81
	32/10	55	19	1,5	35	13	0,14	100/50	100	55	2,0	104	53	0,99
	32/15	55	19	1,5	35	19	0,14	100/65	100	55	2,0	104	70	0,96
	32/20	55	19	1,5	35	23	0,14	100/80	100	55	2,0	104	85	0,92
	32/25	55	19	1,5	35	29	0,14	125/65	187,5	66,5	2,0	129	70	2,25
	40/15	60	22	1,5	41	19	0,16	125/80	187,5	66,5	2,0	129	85	2,18
	40/20	60	22	1,5	41	23	0,16	125/100	187,5	66,5	2,0	129	104	2,08
	40/25	60	22	1,5	41	29	0,17	150/80	225	79	2,0	154	85	3,25
	40/32	60	22	1,5	41	35	0,17	150/100	225	79	2,0	154	104	3,16
	50/20	70	28	1,5	53	23	0,25	150/125	225	79	2,0	154	129	3,03
	50/25	70	28	1,5	53	29	0,26							
	50/32	70	28	1,5	53	35	0,26							
	50/40	70	28	1,5	53	41	0,27							
	65/25	80	38	2,0	70	29	0,46							

Fittings Rohrformstücke

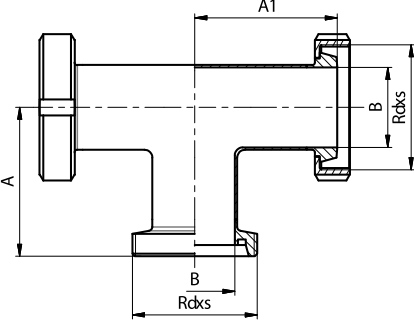
Tee G - G - G T - Stück G - G - G	30450	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	43	10								28x1/8	0,16
	15	52	16								34x1/8	0,23
	20	59	20								44x1/6	0,40
	25	72	26								52x1/6	0,53
	32	77	32								58x1/6	0,64
	40	82	38								65x1/6	0,79
	50	93	50								78x1/6	1,08
	65	105	66								95x1/6	1,78
	80	116	81								110x1/4	2,62
	100	130	100								130x1/4	3,26
	125	223	125								160x1/4	6,57
	150	265	150								190x1/4	10,38

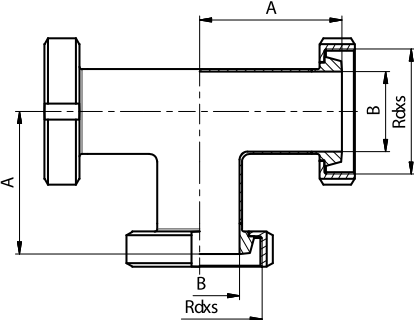
Tee G - G - K/M T - Stück G - G - K/M	30460	Dimensions • Baumaße										
		DN	A	A1	B	D	E	F	R	L	Rd x s	kg
	10	43	40	10							28x1/8	0,21
	15	52	49	16							34x1/8	0,29
	20	59	56	20							44x1/6	0,48
	25	72	68	26							52x1/6	0,62
	32	77	73	32							58x1/6	0,80
	40	82	78	38							65x1/6	0,97
	50	93	89	50							78x1/6	1,35
	65	105	101	66							95x1/6	2,24
	80	116	111	81							110x1/4	3,11
	100	130	125	100							130x1/4	4,10
	125	223	214,5	125							160x1/4	7,65
	150	265	254	150							190x1/4	9,34

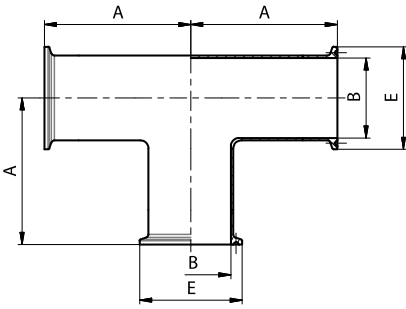
Tee G - K/M - G T - Stück G - K/M - G	30470	Dimensions • Baumaße										
		DN	A	A1	B	D	E	F	R	L	Rd x s	kg
	10	43	40	10							28x1/8	0,21
	15	52	49	16							34x1/8	0,29
	20	59	56	20							44x1/6	0,48
	25	72	68	26							52x1/6	0,62
	32	77	73	32							58x1/6	0,80
	40	82	78	38							65x1/6	0,97
	50	93	89	50							78x1/6	1,35
	65	105	101	66							95x1/6	2,24
	80	116	111	81							110x1/4	3,11
	100	130	125	100							130x1/4	4,10
	125	223	214,5	125							160x1/4	7,65
	150	265	254	150							190x1/4	9,34

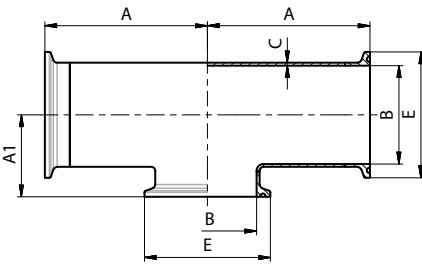
Tee G - K/M - K/M T - Stück G - K/M - K/M	30480	Dimensions • Baumaße										
		DN	A	A1	B	D	E	F	R	L	Rd x s	kg
	10	43	40	10							28x1/8	0,27
	15	52	49	16							34x1/8	0,35
	20	59	56	20							44x1/6	0,56
	25	72	68	26							52x1/6	0,79
	32	77	73	32							58x1/6	0,95
	40	82	78	38							65x1/6	1,16
	50	93	89	50							78x1/6	1,60
	65	105	101	66							95x1/6	2,70
	80	116	111	81							110x1/4	3,61
	100	130	125	100							130x1/4	4,93
	125	223	214,5	125							160x1/4	8,73
	150	265	254	150							190x1/4	13,06

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Tee K/M - K/M - G T - Stück K/M - K/M - G	30490	Dimensions • Baumaße										
		DN	A	A1	B	D	E	F	R	L	Rd x s	kg
	10	43	40	10							28x1/8	0,27
	15	52	49	16							34x1/8	0,35
	20	59	56	20							44x1/6	0,56
	25	72	68	26							52x1/6	0,79
	32	77	73	32							58x1/6	0,95
	40	82	78	38							65x1/6	1,16
	50	93	89	50							78x1/6	1,60
	65	105	101	66							95x1/6	2,70
	80	115	111	81							110x1/4	3,61
	100	130	125	100							130x1/4	4,93
	125	223	214,5	125							160x1/4	8,73
150	265	254	150							190x1/4	13,06	

Tee K/M - K/M - K/M T - Stück K/M - K/M - K/M	30500	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	40	10								28x1/8	0,32
	15	49	16								34x1/8	0,41
	20	56	20								44x1/6	0,64
	25	68	26								52x1/6	0,92
	32	73	32								58x1/6	1,11
	40	78	38								65x1/6	1,34
	50	89	50								78x1/6	1,86
	65	101	66								95x1/6	3,17
	80	111	81								110x1/4	4,11
	100	125	100								130x1/4	5,76
	125	214,5	125								160x1/4	9,81
150	254	150								190x1/4	14,41	

Tee C - C - C (long) T - Stück C - C - C (lang)	30520	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	44	10			34						0,13
	15	53	16			34						0,15
	20	58	20			50,5						0,16
	25	71,5	26			50,5						0,34
	32	76,5	32			50,5						0,40
	40	81,5	38			50,5						0,40
	50	91,5	50			64						0,54
	65	108	66			91						1,24
	80	118	81			106						1,59
	100	128	100			119						1,88
	125	215,5	125			155						4,64
150	253	150			183						6,53	

Tee C - C - C (short) T - Stück C - C - C (kurz)	30521	Dimensions • Baumaße										
		DN	A	A1	B	C	E	F	R	L	Rd x s	kg
	10	38,7	20,7	10	1,5	34						0,13
	15	47,7	23,7	16	1,5	34						0,15
	20	52,7	25,7	20	1,5	50,5						0,16
	25	62,7	28,7	26	1,5	50,5						0,34
	32	67,7	30,7	32	1,5	50,5						0,40
	40	72,7	35,7	38	1,5	50,5						0,40
	50	82,7	41,7	50	1,5	64						0,54
	65	92,7	50,7	66	2,0	91						1,24
	80	102,7	58,2	81	2,0	106						1,59
	100	112,7	64,7	100	2,0	119						1,88

Fittings Rohrformstücke

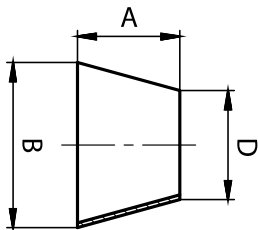
Tee S - S - C (short) T - Stück S - S - C (kurz)	30522	Dimensions • Baumaße										
		DN	A	A1	B	C	D	E	F	L	Rd x s	kg
	10	26	20,7	10	1,5	13	34					0,07
	15	35	23,7	16	1,5	19	34					0,09
	20	40	25,7	20	1,5	23	50,5					0,10
	25	50	28,7	26	1,5	29	50,5					0,28
	32	55	30,7	32	1,5	35	50,5					0,34
	40	60	35,7	38	1,5	41	50,5					0,34
	50	70	41,7	50	1,5	53	64					0,48
	65	80	50,7	66	2,0	70	91					1,18
	80	90	58,2	81	2,0	85	106					1,53
	100	100	64,7	100	2,0	104	119					1,82

Cross piece S - S - S - S (short) Kreuzstück S - S - S - S (kurz)	30540	Dimensions • Baumaße										
		DN	A	A1	C	D	E	F	R	L	Rd x s	kg
	25	50	30	1,5	28							0,09
	25	50	30	1,5	29							0,09
	32	55	36	1,5	34							0,13
	32	55	36	1,5	35							0,13
	40	60	44	1,5	40							0,17
	40	60	44	1,5	41							0,17
	50	70	58	1,5	52							0,25
	50	70	58	1,5	53							0,25
	65	80	76	2,0	70							0,51
	80	90	91	2,0	85							0,69
100	100	110	2,0	104							0,93	

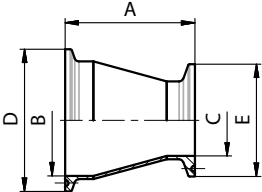
Cross reduced short S - S - S - S Kreuz reduziert kurz S - S - S - S	30550	Dimensions • Baumaße												
		DN	A	A1	C	D	E	kg	DN	A	A1	C	D	E
	15/10	35	22	1,5	19	13	0,03	50/40	70	56	1,5	53	41	0,23
	20/10	40	26	1,5	23	13	0,05	65/25	80	76	2,0	70	29	0,41
	20/15	40	26	1,5	23	19	0,05	65/32	80	76	2,0	70	35	0,44
	25/10	50	32	1,5	29	13	0,07	65/40	80	76	2,0	70	41	0,46
	25/15	50	32	1,5	29	19	0,09	65/50	80	76	2,0	70	53	0,46
	25/20	50	32	1,5	29	23	0,09	80/40	90	92	2,0	85	41	0,64
	32/10	55	38	1,5	35	13	0,10	80/50	90	92	2,0	85	53	0,62
	32/15	55	38	1,5	35	19	0,10	80/65	90	92	2,0	85	70	0,75
	32/20	55	38	1,5	35	23	0,09	100/50	100	110	2,0	104	53	0,91
	32/25	55	38	1,5	35	29	0,09	100/65	100	110	2,0	104	70	0,89
	40/15	60	44	1,5	41	19	0,13	100/80	100	110	2,0	104	85	0,81
	40/20	60	44	1,5	41	23	0,13	125/65	187,5	133	2,0	129	70	2,19
	40/25	60	44	1,5	41	29	0,14	125/80	187,5	133	2,0	129	85	2,01
	40/32	60	44	1,5	41	35	0,14	125/100	187,5	133	2,0	129	104	1,85
	50/20	70	56	1,5	53	23	0,22	150/80	225	158	2,0	154	85	3,03
	50/25	70	56	1,5	53	29	0,23	150/100	225	158	2,0	154	104	2,85
	50/32	70	56	1,5	53	35	0,23	150/125	225	158	2,0	154	129	2,63

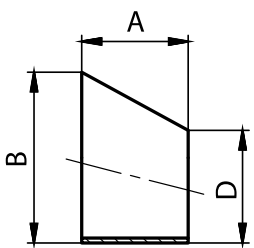
Cross piece S - S - S - S (long) Kreuzstück S - S - S - S (lang)	30560	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	25	50		1,5	28							0,18
	25	50		1,5	29							0,18
	32	55		1,5	34							0,22
	32	55		1,5	35							0,22
	40	60		1,5	40							0,28
	40	60		1,5	41							0,28
	50	70		1,5	52							0,42
	50	70		1,5	53							0,42
	65	80		2,0	70							0,80
	80	90		2,0	85							1,01
100	100		2,0	104							1,39	

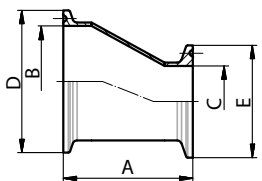
Fittings Rohrformstücke

Reducing piece concentric S - S Reduzierstück konzentrisch S - S	30600	Dimensions • Baumaße				
		DN	A	B	D	kg
	15/10	11	19	13	0,01	
	20/10	18	23	13	0,01	
	20/15	7	23	19	0,01	
	25/15	18	29	19	0,02	
	25/20	11	29	23	0,01	
	32/20	22	35	23	0,02	
	32/25	11	35	29	0,01	
	40/20	33	41	23	0,02	
	40/25	22	41	29	0,03	
	40/32	11	41	35	0,01	
	50/25	44	53	29	0,06	
	50/32	33	53	35	0,05	
	50/40	23	53	41	0,04	

DN	A	B	D	kg
65/40	52	70	41	0,12
65/50	30	70	53	0,08
80/50	56	85	53	0,20
80/65	27	85	70	0,11
100/65	60	104	70	0,26
100/80	35	104	85	0,16
125/80	79	129	85	0,42
125/100	45	129	104	0,27
150/100	90	154	104	0,60
150/125	45	154	129	0,33
200/150	90	204	154	0,80
250/150	297	253	154	2,90

Reducing piece concentric C - C Reduzierstück konzentrisch C - C	30609	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	32/25	36,5	32	26	50,5	50,5						0,11
	40/25	48	38	26	50,5	50,5						0,11
	40/32	37	38	32	50,5	50,5						0,11
	50/25	70	50	26	64	50,5						0,14
	50/32	59	50	32	64	50,5						0,15
	50/40	48,5	50	38	64	50,5						0,13
	65/40	77,5	66	38	91	50,5						0,31
	65/50	55,5	66	50	91	64						0,18
	80/50	84	81	50	106	64						0,40
	80/65	53	81	66	106	91						0,39
	100/65	87	100	66	119	91						0,55
	100/80	60,5	100	81	119	106						0,48

Reducing piece eccentric S - S Reduzierstück exzentrisch S - S	30610	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	32/25	16,5	35		29							0,02
	40/25	33	41		29							0,03
	40/32	16,5	41		35							0,02
	50/25	44	53		29							0,05
	50/32	33	53		35							0,05
	50/40	33	53		41							0,04
	65/40	51	70		41							0,14
	65/50	44	70		53							0,09
	80/50	56	85		53							0,19
	80/65	41,2	85		70							0,10
	100/65	61	104		70							0,26
	100/80	52,5	104		85							0,16

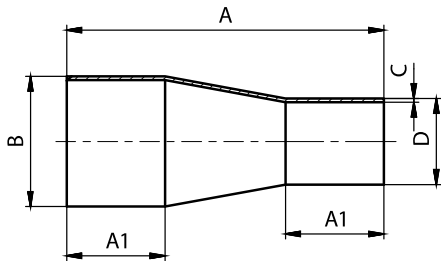
Reducing piece eccentric C - C Reduzierstück exzentrisch C - C	30619	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	32/25	41,9	32	26	50,5	50,5						0,11
	40/25	58,4	38	26	50,5	50,5						0,11
	40/32	41,9	38	32	50,5	50,5						0,11
	50/25	69,4	50	26	64	50,5						0,14
	50/32	58,4	50	32	64	50,5						0,15
	50/40	58,4	50	38	64	50,5						0,13
	65/40	76,4	66	38	91	50,5						0,31
	65/50	69,4	66	50	91	64						0,18
	80/50	81,4	81	50	106	64						0,40
	80/65	66,6	81	66	106	91						0,39
	100/65	89,5	100	66	119	91						0,55
	100/80	81	100	81	119	106						0,48

Fittings Rohrformstücke

Reducing piece concentric S - S
(long)
Reduzierstück konzentrisch S - S
(lang)

30620

Dimensions • Baumaße

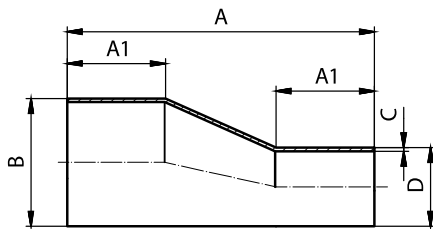


DN	A	A1	B	C	D	F	R	L	Rd x s	kg
15/10	45	18	18	1,5	12					0,02
20/10	63	18	22	1,5	12					0,04
20/15	60	20	22	1,5	18					0,04
25/15	60	20	28	1,5	18					0,05
25/20	60	20	28	1,5	22					0,05
32/25	80	30	34	1,5	28					0,09
40/25	102	35	40	1,5	28					0,12
40/32	88	35	40	1,5	34					0,12
50/25	115	40	52	1,5	28					0,17
50/32	129	40	52	1,5	34					0,20
50/40	113	40	52	1,5	40					0,19
65/32	125	40	70	2,0	34					0,24
65/40	120	40	70	2,0	40					0,33
65/50	130	40	70	2,0	52					0,39
80/40	140	40	85	2,0	40					0,44
80/50	125	40	85	2,0	52					0,43
80/65	120	40	85	2,0	70					0,46
100/50	160	40	104	2,0	52					0,63
100/65	127	40	104	2,0	70					0,56
100/85	120	40	104	2,0	85					0,56

Reducing piece eccentric S - S (long)
Reduzierstück exzentrisch S - S
(lang)

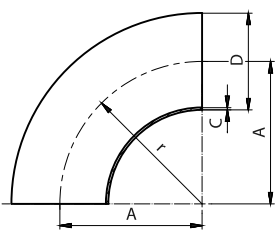
30630

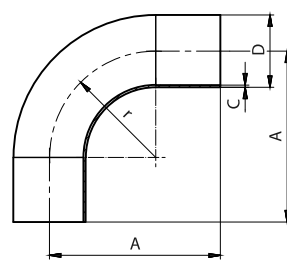
Dimensions • Baumaße

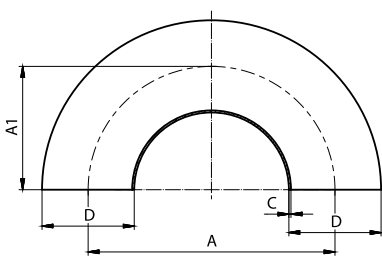


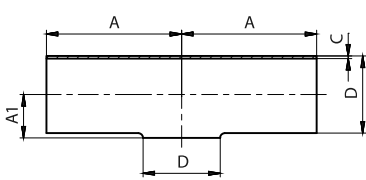
DN	A	A1	B	C	D	F	R	L	Rd x s	kg
20/15	60	20	22	1,5	18					0,04
25/15	60	20	28	1,5	18					0,05
25/20	60	20	28	1,5	22					0,05
32/25	100	40	34	1,5	28					0,11
40/25	100	40	40	1,5	28					0,13
40/32	100	40	40	1,5	34					0,13
50/25	130	40	52	1,5	28					0,20
50/32	125	40	52	1,5	34					0,20
50/40	100	40	52	1,5	40					0,17
65/40	140	40	70	2,0	40					0,39
65/50	125	40	70	2,0	52					0,38
80/50	130	40	85	2,0	52					0,46
80/65	110	40	85	2,0	70					0,43
100/65	155	40	104	2,0	70					0,70
100/85	130	40	104	2,0	85					0,62
80/50	125	40	85	2,0	52					0,43
80/65	120	40	85	2,0	70					0,46
100/50	160	40	104	2,0	52					0,63
100/65	127	40	104	2,0	70					0,56
100/85	120	40	104	2,0	85					0,56

Fittings Rohrformstücke

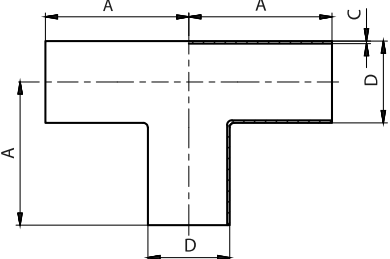
Bend 90° S - S, SMS Bogen 90° S - S, SMS	31010	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	E	F	r	L	Rd x s	kg
		25	37,5		1,25	25			37,5			0,05
		38	57		1,25	38			57			0,12
		51	76,5		1,25	51			76,5			0,18
		63,5	95,25		1,5	63,5			95,25			0,33
		76	114,15		1,6	76,1			114,15			0,50
		101,6	150		2,0	101,6			150			0,87

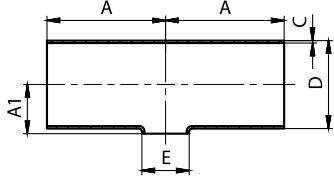
Bend 90° W - W, SMS Bogen 90° W - W, SMS	31020	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	E	F	r	L	Rd x s	kg
		25	75		1,25	25			38			0,15
		38	90		1,25	38			56			0,21
		51	100		1,25	51			72			0,31
		63,5	115		1,5	63,5			84			0,45
		76	130		1,6	76,1			85			0,67
		101,6	150		2,0	101,6			110			1,27

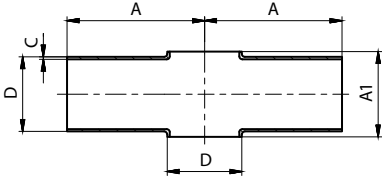
Bend 180° S - S Bogen 180° S - S	31340	Dimensions • Baumaße										
	SMS	DN	A	A1	C	D	E	F	R	L	Rd x s	kg
		25	75	37,5	1,25	25						0,05
		38	114	57	1,25	38						0,12
		51	153	76,5	1,25	51						0,18
		63,5	190,5	95,25	1,5	63,5						0,33
		76	228,3	114,15	1,6	76,1						0,50
		101,6	304,2	152,1	2,0	101,6						0,87

Tee S - S - S, SMS (short) T - Stück S - S - S, SMS (kurz)	31400	Dimensions • Baumaße										
	SMS	DN	A	A1	C	D	E	F	R	L	Rd x s	kg
		25	55	14	1,25	25						0,11
		38	70	21	1,25	38						0,25
		51	82	28,5	1,25	51						0,47
		63,5	105	36	1,5	63,5						0,75
		76	110	43	1,6	76,1						1,07
		101,6	150	58	2,0	101,6						2,30

Fittings Rohrformstücke

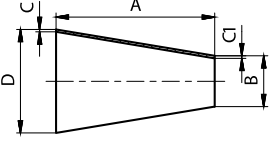
Tee S - S - S, SMS (long) T - Stück S - S - S, SMS (lang)	31410	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	E	F	R	L	Rd x s	kg
	25	55		1,25	25							0,11
	35	70		1,25	38							0,25
	51	82		1,25	51							0,47
	63,5	105		1,5	63,5							0,75
	76	110		1,6	76,1							1,07
	101,6	150		2,0	101,6							2,30

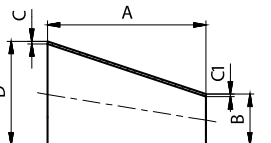
Tee S - S - S, SMS (short) T - Stück S - S - S, SMS (kurz)	31440	Dimensions • Baumaße										
	SMS	DN	A	A1	C	D	E	F	r	L	Rd x s	kg
	38/25	70	21	1,25	38	25						0,17
	51/25	82	29	1,25	51	25						0,26
	51/38	82	29	1,25	51	38						0,27
	63/25	105	34,5	1,5	63,5	25						0,49
	63/38	105	35	1,5	63,5	38						0,51
	63/51	105	36	1,5	63,5	51						0,51
	76/25	110	41	1,6	76,1	25						0,60
	76/38	110	42	1,6	76,1	38						0,68
	76/51	110	43	1,6	76,1	51						0,68
	76/63	110	43	1,6	76,1	63,5						0,81
	101/25	150	56	2,0	101,6	25						0,82
	101/38	150	56	2,0	101,6	38						0,90
	101/51	150	57	2,0	101,6	51						0,95
	101/63	150	58	2,0	101,6	63,5						0,96
	101/76	150	58	2,0	101,6	76,1						0,92

Cross piece S - S - S - S, SMS Kreuzstück S - S - S - S, SMS	31540	Dimensions • Baumaße										
	SMS	DN	A	A1	C	D	E	F	R	L	Rd x s	kg
	25	55	28	1,25	25							0,09
	38	70	42	1,25	38							0,19
	51	82	57	1,25	51							0,25
	63,5	105	72	1,5	63,5							0,51
	76	110	86	1,6	76,1							0,69
	101,6	150	116	2,0	101,6							0,93

Fittings

Rohrformstücke

Reducing piece concentric S-S, SMS Reduzierstück konzentrisch S-S, SMS	31600	Dimensions • Baumaße										
	SMS	DN	A	B	C	C1	D	F	R	L	Rd x s	kg
	38/25	39	25	1,2	1,2	38						0,04
	50/25	78	25	1,2	1,2	51						0,09
	50/38	39	38	1,2	1,2	51						0,05
	63/25	116	25	1,5	1,2	63,5						0,20
	63/38	76	38	1,5	1,2	63,5						0,15
	63/50	38	51	1,5	1,2	63,5						0,09
	76/25	153	25	1,6	1,2	76,1						0,23
	76/38	114	38	1,6	1,2	76,1						0,26
	76/50	75	51	1,6	1,2	76,1						0,19
	76/63	38	63,5	1,6	1,5	76,1						0,11
	104/38	198	38	2,0	1,2	104						0,70
	104/50	159	51	2,0	1,2	104						0,61
	104/63	122	63,5	2,0	1,5	104						0,51
	104/76	84	76,1	2,0	1,6	104						0,38

Reducing piece eccentric S-S, SMS Reduzierstück exzentrisch S-S, SMS	31610	Dimensions • Baumaße										
	SMS	DN	A	B	C	C1	D	F	r	L	Rd x s	kg
	38/25	39	25	1,2	1,2	38						0,04
	50/25	78	25	1,2	1,2	51						0,09
	50/38	39	38	1,2	1,2	51						0,05
	63/25	116	25	1,5	1,2	63,5						0,20
	63/38	76	38	1,5	1,2	63,5						0,15
	63/50	38	51	1,5	1,2	63,5						0,09
	76/25	153	25	1,6	1,2	76,1						0,23
	76/38	114	38	1,6	1,2	76,1						0,26
	76/50	75	51	1,6	1,2	76,1						0,19
	76/63	38	63,5	1,6	1,5	76,1						0,11
	104/38	198	38	2,0	1,2	104						0,70
	104/50	159	51	2,0	1,2	104						0,61
	104/63	122	63,5	2,0	1,5	104						0,51
	104/76	84	76,1	2,0	1,6	104						0,38

PRODUCER OF STAINLESS PIPING SYSTEMS
HERSTELLER VON EDELSTAHLARMATUREN

VALVES AND COCKS

VENTILE UND HÄHNE

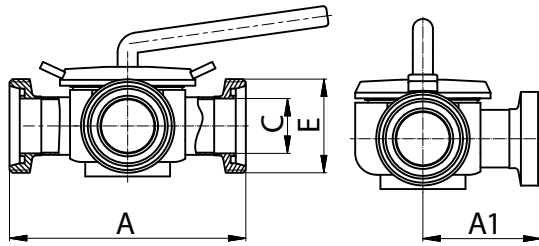


VALVES AND COCKS VENTILE UND HÄHNE

Three way cock G - G - G
Dreiwegekükenhahn G - G - G

40110

Dimensions • Baumaße

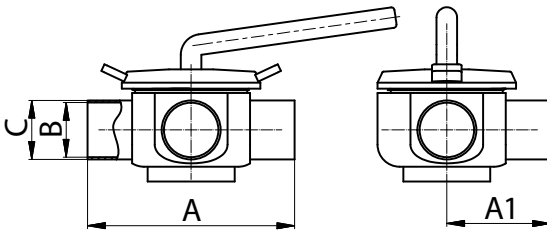


DN	A	C	A1	E	F	R	L	Rd x s	kg
				DIN 405					
40	184,5	38	92,2	65x1/6"					
50	231,5	50	115,8	78x1/6"					

Three way cock S - S - S
Dreiwegekükenhahn S - S - S

40111

Dimensions • Baumaße

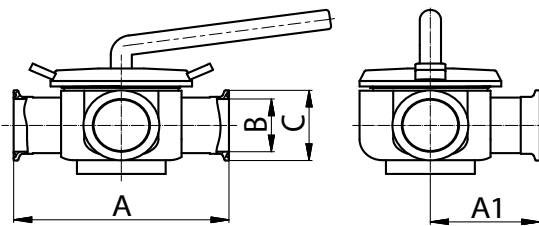


DN	A	A1	B	C	E	F	R	L	Rd x s	kg
40	140,5	70,2	38	41						
50	185,5	92,8	50	53						

Three way cock C - C - C
Dreiwegekükenhahn C - C - C

40119

Dimensions • Baumaße

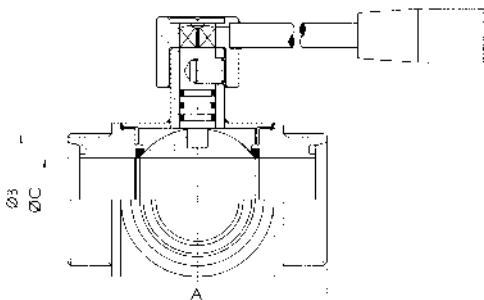


DN	A	A1	B	C	E	F	R	L	Rd x s	kg
40	165,9	82,9	38	50,5						
50	210,9	105,5	50	64						

Three way ball valve G - G - G
Dreiwegekugelventil G - G - G

40210

Dimensions • Baumaße



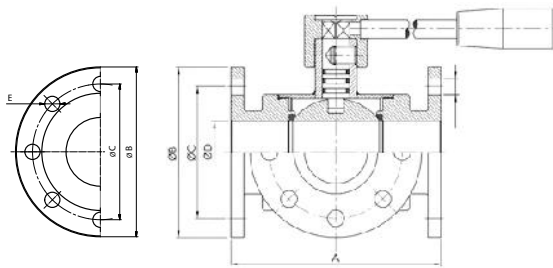
DN	A	B	C	E	E	F	R	L	Rd x s	kg
		DIN 405								
25	136	52x1/6"	25							
32	138	58x1/6"	31							
40	158	65x1/6"	37							
50	170	78x1/6"	49							
65	204	95x1/6"	66							
80	130	110x1/4"	81							
100	264	130x1/4"	100							
125	346	160x1/4"	120							

VALVES AND COCKS VENTILE UND HÄHNE

Three way ball valve PN - PN - PN
Dreiwegekugelventil PN - PN - PN

40240

Dimensions • Baumaße

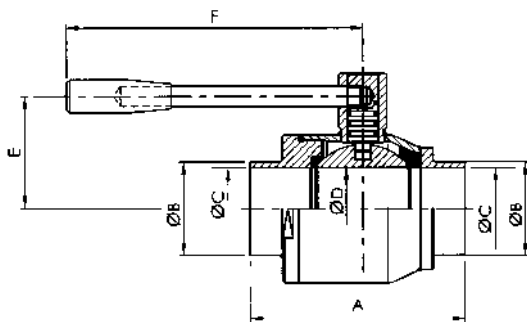


DN	A	B	C	D	E	F	R	L	Rd x s	kg
25	150	115	85	25	14x4					
32	180	140	100	31	18x4					
40	200	150	110	37	18x4					
50	220	165	125	49	18x4					
65	240	185	145	66	18x4					
80	260	200	160	81	18x8					
100	300	220	180	100	18x8					
125	380	250	210	120	18x8					

Straight way ball valve S - S
Kugelventil S - S

40510

Dimensions • Baumaße

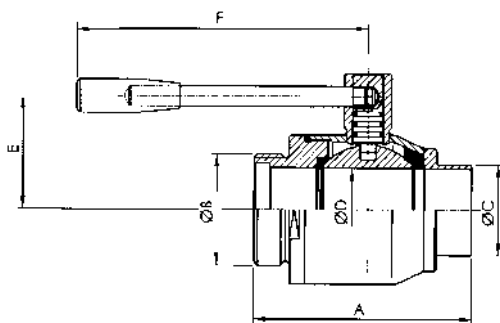


DN	A	B	C	D	E	F	R	L	Rd x s	kg
15	78	21	16	16	40	90				
20	78	25	20	19	40	90				
25	84	31	26	24	44	146				
32	106	37	32	33	50	146				
40	124	43	40	40	64	185				
50	134	55	49	49,5	68	185				
65	145	72	65	65	95	243				
80	179	87	79	79	104	243				
100	205	106	99	99	122	273				
125	225	132	119	119	135	273				

Straight way ball valve G - S
Kugelventil G - S

40520

Dimensions • Baumaße

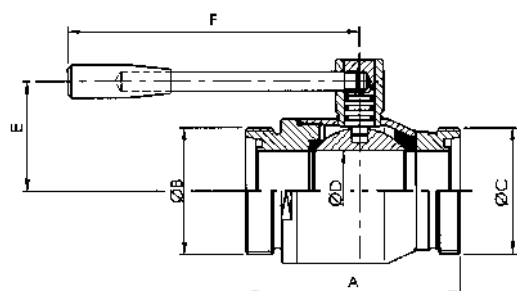


DN	A	B	C	D	E	F	R	L	Rd x s	kg
		DIN 405								
25	86	52x1/6"	31	24	44	146				
32	104	58x1/6"	37	33	50	146				
40	125	65x1/6"	43	40	64	185				
50	134	78x1/6"	55	49,5	68	185				
65	145	95x1/6"	72	65	95	243				
80	179	110x1/4"	87	79	104	243				
100	205	130x1/4"	106	99	122	273				
125	225	160x1/4"	132	119	135	273				

Straight way ball valve G - G
Kugelventil G - G

40530

Dimensions • Baumaße



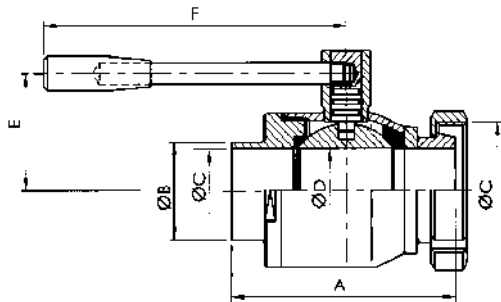
DN	A	B/C	D	E	F	F	R	L	Rd x s	kg
		DIN 405								
25	89	52x1/6"	24	44	146					
32	113	58x1/6"	33	50	146					
40	124	65x1/6"	40	64	185					
50	134	78x1/6"	49,5	68	185					
65	146	95x1/6"	65	95	243					
80	179	110x1/4"	79	104	243					
100	205	130x1/4"	99	122	273					
125	225	160x1/4"	119	135	273					

VALVES AND COCKS VENTILE UND HÄHNE

Straight way ball valve S - K/M
Kugelventil S - K/M

40540

Dimensions • Baumaße

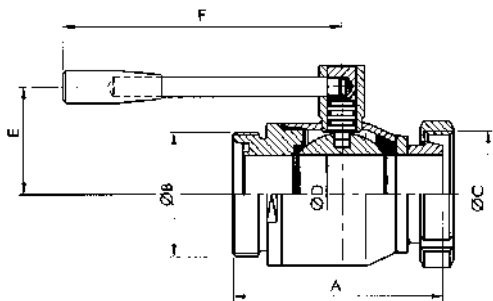


DN	A	B	C	D	E	F	R	L	Rd x s	kg
DIN 405										
25	89	31	52x1/6"	24	44	146				
32	120	37	58x1/6"	33	50	146				
40	128	43	65x1/6"	40	64	185				
50	140	55	78x1/6"	49,5	68	185				
65	152	72	95x1/6"	65	95	243				
80	190	87	110x1/4"	79	104	243				
100	221	106	130x1/4"	99	122	273				
125	259	132	160x1/4"	119	135	273				

Straight way ball valve G - K/M
Kugelventil G - K/M

40550

Dimensions • Baumaße

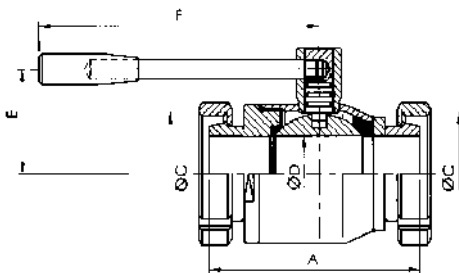


DN	A	B/C	D	E	F	G	R	L	Rd x s	kg
DIN 405										
25	92	52x1/6"	24	44	146					
32	118	58x1/6"	33	50	146					
40	128	65x1/6"	40	64	185					
50	140	78x1/6"	49,5	68	185					
65	152	95x1/6"	65	95	243					
80	190	110x1/4"	79	104	243					
100	221	130x1/4"	99	122	273					
125	259	160x1/4"	119	135	273					

Straight way ball valve K/M - K/M
Kugelventil K/M - K/M

40560

Dimensions • Baumaße

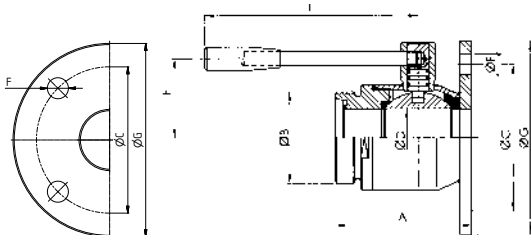


DN	A	C	D	E	F	F	R	L	Rd x s	kg
DIN 405										
25	92	52x1/6"	24	44	146					
32	123	58x1/6"	33	50	146					
40	131	65x1/6"	40	64	185					
50	143	78x1/6"	49,5	68	185					
65	160	95x1/6"	65	95	243					
80	190	110x1/4"	79	104	243					
100	235	130x1/4"	99	122	273					
125	259	160x1/4"	119	135	273					

Straight way ball valve G - PN
Kugelventil G - PN

40570

Dimensions • Baumaße



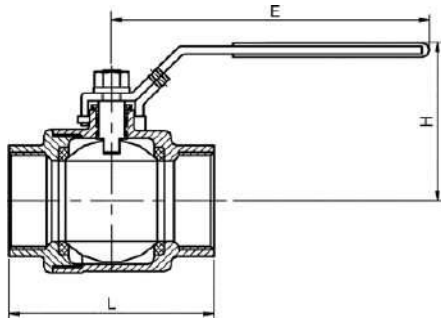
DN	A	B	C	D	E	F	G	L	Rd x s	kg
DIN 405										
25	86	52x1/6"	85	24	44	14x4	115	146		
32	104	58x1/6"	100	33	50	18x4	140	146		
40	107	65x1/6"	110	40	64	18x4	150	185		
50	117	78x1/6"	125	49,5	68	18x4	165	185		
65	141	95x1/6"	145	65	95	18x4	185	243		
80	156	110x1/4"	160	79	104	18x4	200	243		
100	181	130x1/4"	180	99	122	18x8	220	273		
125	201	160x1/4"	210	119	135	18x8	250	273		

VALVES AND COCKS VENTILE UND HÄHNE

Two pieces ball cock G - G
2-Teilung-Kugelhahn G - G

40640

Dimensions • Baumaße

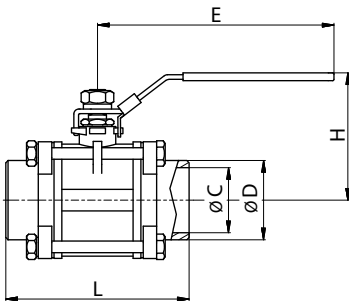


DN	L	E	H	D	E	F	R	L	Rd x s	kg
1/4"	52	90	55							
3/8"	52	90	55							
1/2"	55	105	55							
3/4"	65	115	60							
1"	72	120	70							
1 1/4"	83	145	75							
1 1/2"	95	175	90							
2"	110	175	100							
2 1/2"	144	210	130							
3"	170	230	140							

Three pieces ball cock S - S
3-Teilung-Kugelhahn S - S

40650

Dimensions • Baumaße

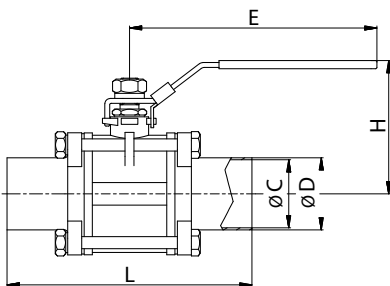


DN	L	E	H	C	D	F	R	L	Rd x s	kg
8	63	95	46	11	17					
10	63	95	50	12	17					
15	75	103	56	15	21,3					
20	80	118	66	20	26,7					
25	90	135	72	25	33,4					
32	110	135	83	32	42,2					
40	120	160	88	38	48,3					
50	140	173	100	50	60,3					
65	165	216	127	65	74					
80	202	232	138	80	91					
100	252	330	171	100	110					

Three pieces ball cock S - S
for orbital welding
3-Teilung-Kugelhahn S - S für Orbital
Schweißen

40660

Dimensions • Baumaße

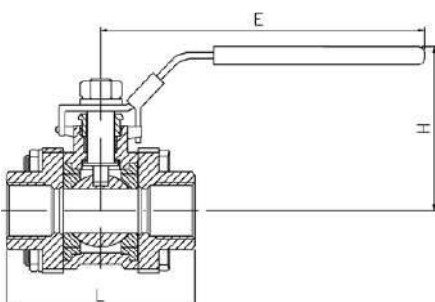


DN	L	E	H	C	D	F	R	G	Rd x s	kg
10	100	95	50	10	13					
15	125	103	56	16	19					
20	130	118	66	20	23					
25	140	135	72	26	29					
32	168	135	83	32	35					
40	178	160	88	38	41					
50	200	173	100	50	53					
65	245	216	127	66	70					
80	282	232	138	81	85					
100	332	330	171	100	104					
100	332	330	171	100	110					

Three pieces ball cock G - G
3-Teilung-Kugelhahn G - G

40670

Dimensions • Baumaße



DN	L	E	H	D	E	F	R	G	Rd x s	kg
1/4"	51	95	46							
3/8"	65	95	50							
1/2"	74	103	56							
3/4"	70	118	66							
1"	89	135	72							
1 1/4"	108	135	83							
1 1/2"	108	160	88							
2"	140	173	100							
2 1/2"	168	216	127							
3"	190	232	138							
4"	240	330	171							

VALVES AND COCKS VENTILE UND HÄHNE

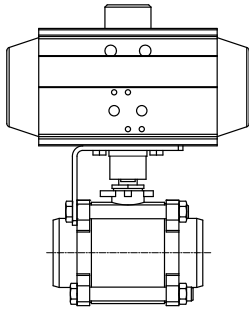
Three pieces ball cock S - S with AT SR 4405
(or DA 4410)
3-Teilung-Kugelhahn S - S mit AT SR 4405
(oder DA 4410)

40650 P05

Dimensions • Baumaße

40650 P10

DN	B	C	C	D	E	F	G	R	Rd x s	kg
10										
15										
20										
25										
32										
40										
50										
65										
80										
100										

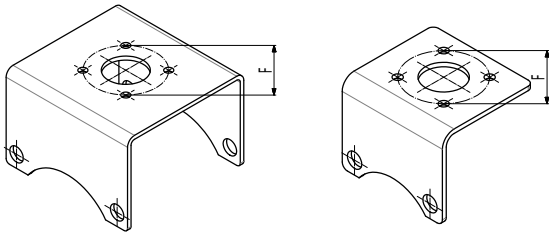


Bracket
Konsole für Kugelhahn

40770

Dimensions • Baumaße

DN	A	D	E	F	G	R	Rd x s	kg
10	F04							
15	F04							
20	F04							
25	F04							
32	F04/F05							
40	F05							
50	F07							
65	F07							
80	F07							
100	F07							

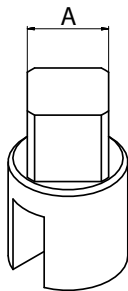


Catch driver for 3-pieces ball cock
Kupplung für 3-Teilung-Kugelhahn

40780

Dimensions • Baumaße

A	B	C	D	E	F	G	R	L	Rd x s	kg
11x11										
14x14										
17x17										
22x22										

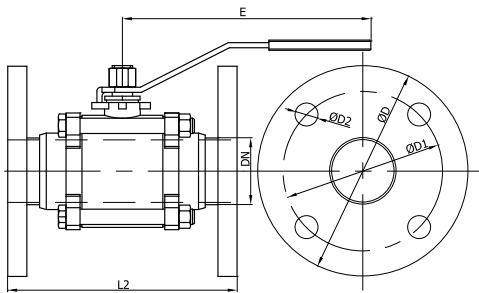


VALVES AND COCKS VENTILE UND HÄHNE

Three pieces ball cock PN - PN
3-Teilung-Kugelhahn PN - PN

40740 PN10
(2070)

Dimensions • Baumaße



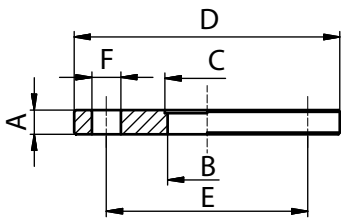
DN	D	D1	D2	L2	E	H	A	B	Rd x s	kg
25	115	85	14x4	162	135	72				
32	140	100	18x4	186	135	83				
40	150	110	18x4	200	160	88				
50	165	125	18x4	226	173	100				
65	185	145	18x4	251	216	127				
80	200	160	18x8	301	232	138				
100	220	180	18x8	351	330	171				

Flange PN 10
Flansch PN 10

DIN 2576

20700

Dimensions • Baumaße

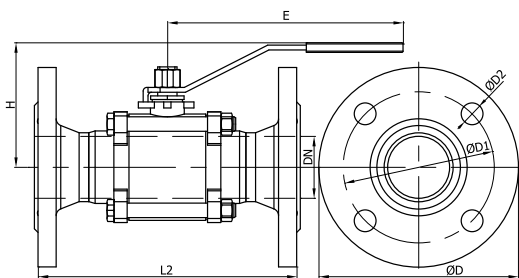


DN	A	B	C	D	E	F	G	L	Rd x s	kg
10	14	10	12,2	90	60	14x4				0,5
15	14	16	18,2	95	65	14x4				0,6
20	16	20	22,2	105	75	14x4				0,85
25	16	26	28,2	115	85	14x4				1,11
32	16	32	34,2	140	100	18x4				1,64
40	16	38	40,2	150	110	18x4				1,8
50	18	50	52,2	165	125	18x4				2,3
65	18	66	70,3	185	145	18x4				2,88
80	20	81	85,3	200	160	18x8				3,2
100	20	100	104,3	220	180	18x8				4
125	22	125	129,5	250	210	18x8				5
150	22	150	154,5	285	240	22x8				6,7

Three pieces ball cock PN - PN
3-Teilung-Kugelhahn PN - PN

40740 PN16
(2073)

Dimensions • Baumaße

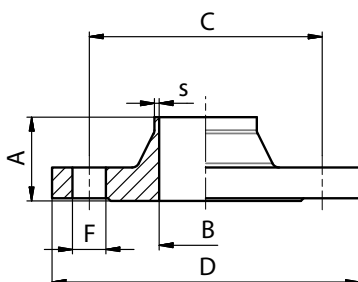


DN	D	D1	D2	L2	E	H	A	B	Rd x s	kg
25	115	85	14x4	162	135	72				
32	140	100	18x4	186	135	83				
40	150	110	18x4	200	160	88				
50	165	125	18x4	226	173	100				
65	185	145	18x4	251	216	127				
80	200	160	18x8	301	232	138				
100	220	180	18x8	351	330	171				

Flange PN 16
Flansch PN 16

20730

Dimensions • Baumaße

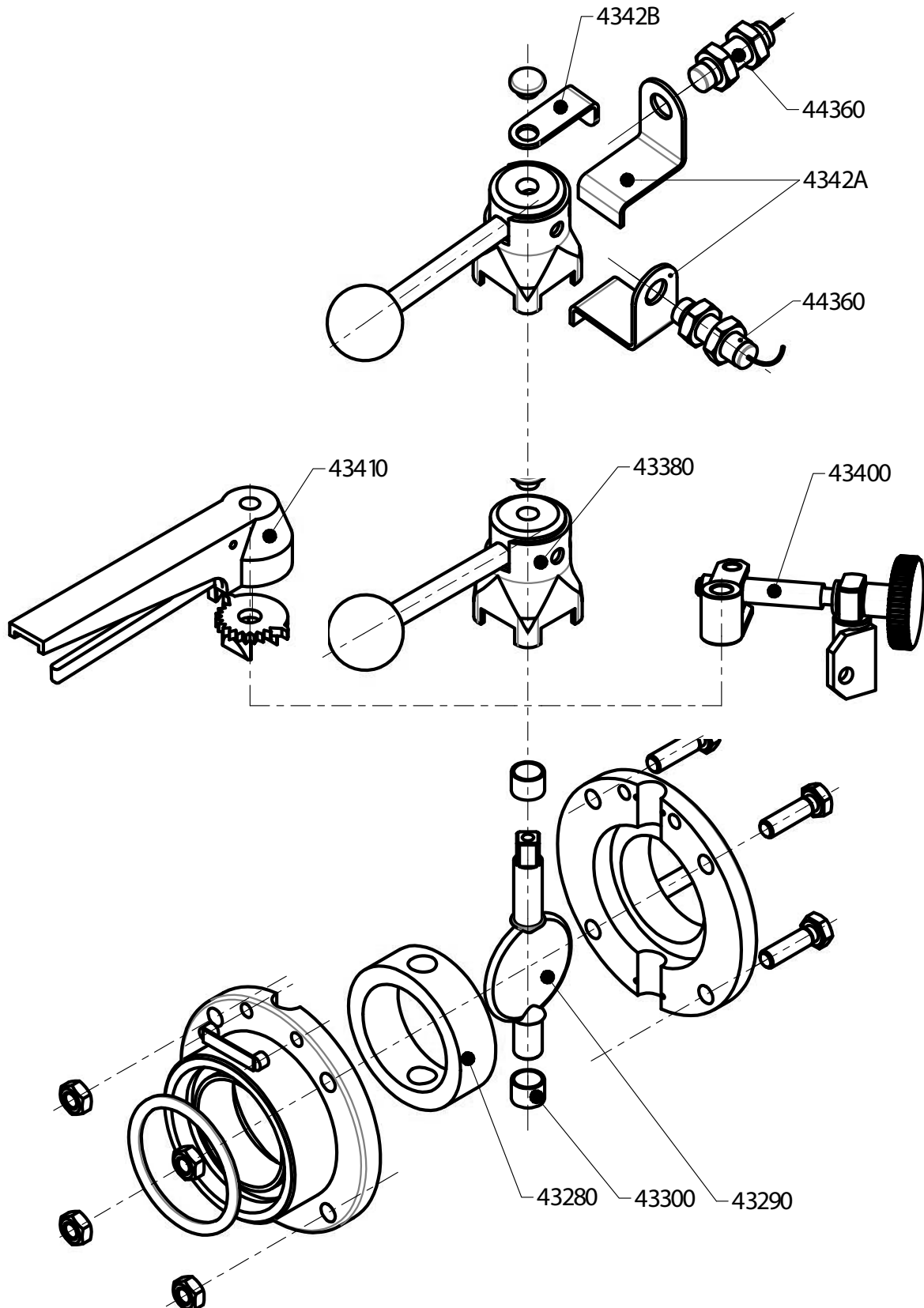


DN	A	B	C	D	F	s	K	L	Rd x s	kg
10	35	10	60	90	14x4	1,5				0,58
15	35	16	65	95	14x4	1,5				0,65
20	38	20	75	105	14x4	1,5				0,95
25	38	26	85	115	14x4	1,5				1,14
32	40	32	100	140	18x4	1,5				1,6
40	42	38	110	150	18x4	1,5				1,8
50	45	50	125	165	18x4	1,5				2,53
65	45	66	145	185	18x4	2				3,06
80	50	81	160	200	18x8	2				3,7
100	52	100	180	220	18x8	2				4,62
125	55	125	210	250	18x8	2				6,3
150	55	150	240	285	22x8	2				7,75

VALVES AND COCKS VENTILE UND HÄHNE

Butterfly valve - variants control and signaling

Scheibenventil - variaten kontrolle und signalisierung

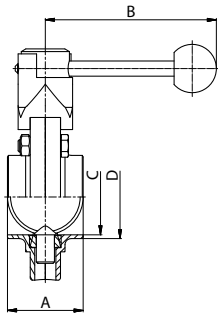


VALVES AND COCKS VENTILE UND HÄHNE

Butterfly valve S - S
Scheibenventil S - S

43010

Dimensions • Baumaße

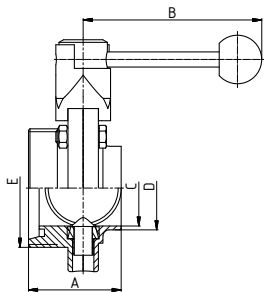


DN	A	B	C	D	E	F	R	L	Rd x s	kg
15	50	110	15	18						
20	50	110	19	22						
25	40	114	26	31						
32	42	114	32	37						
40	50	140	38	43						
50	50	140	50	55						
65	50	140	66	72						
80	60	174	81	87						
100	64	174	100	106						
125	100	210	125	138						
150	100	210	150	164						

Butterfly valve G - S
Scheibenventil G - S

43020

Dimensions • Baumaße

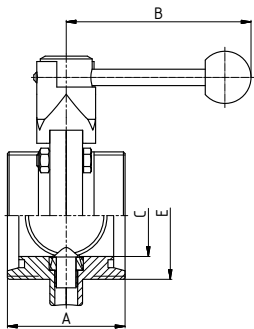


DN	A	B	C	D	E	F	R	L	Rd x s	kg
					DIN 405					
15	58	110	15	18	34x1/8"					
20	58	110	19	22	44x1/6"					
25	52	114	26	31	52x1/6"					
32	53	114	32	37	58x1/6"					
40	61	140	38	43	65x1/6"					
50	61	140	50	55	78x1/6"					
65	63	140	66	72	95x1/6"					
80	80	174	81	87	110x1/4"					
100	84	174	100	106	130x1/4"					
125	106	210	125	138	160x1/4"					
150	112	210	150	164	190x1/4"					

Butterfly valve G - G
Scheibenventil G - G

43030

Dimensions • Baumaße

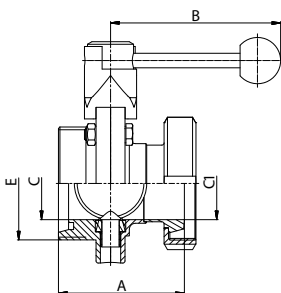


DN	A	B	C	E	F	F	R	L	Rd x s	kg
				DIN 405						
15	66	110	15	34x1/8"						
20	66	110	19	44x1/6"						
25	64	114	26	52x1/6"						
32	64	114	32	58x1/6"						
40	72	140	38	65x1/6"						
50	72	140	50	78x1/6"						
65	76	140	66	95x1/6"						
80	100	174	81	110x1/4"						
100	104	174	100	130x1/4"						
125	112	210	125	160x1/4"						
150	124	210	150	190x1/4"						

Butterfly valve G - K/M
Scheibenventil G - K/M

43040

Dimensions • Baumaße



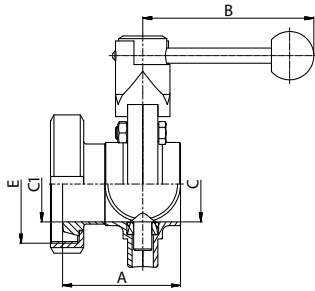
DN	A	B	C	C1	E	R	L	Rd x s	kg
					DIN 405				
15	73	110	15	16	38x1/8"				
20	74	110	19	20	44x1/6"				
25	74	114	26	26	52x1/6"				
32	78	114	32	32	58x1/6"				
40	87	140	38	38	65x1/6"				
50	89	140	50	50	78x1/6"				
65	95	140	66	66	95x1/6"				
80	117	174	81	81	110x1/4"				
100	128	174	100	100	130x1/4"				
125	138	210	125	125	160x1/4"				
150	147	210	150	150	190x1/4"				

VALVES AND COCKS VENTILE UND HÄHNE

Butterfly valve K/M - S
Scheibenventil K/M - S

43050

Dimensions • Baumaße

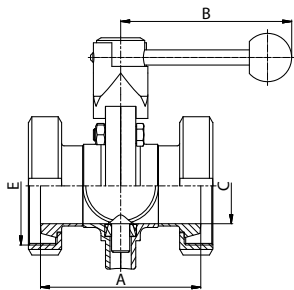


DN	A	B	C	C1	E	R	L	Rd x s	kg
					DIN 405				
15	65	110	15	16	34x1/8"				
20	66	110	19	20	44x1/6"				
25	60	114	26	26	52x1/6"				
32	65	114	32	32	58x1/6"				
40	74	140	38	38	65x1/6"				
50	76	140	50	50	78x1/6"				
65	80	140	66	66	95x1/6"				
80	95	174	81	81	110x1/4"				
100	106	174	100	100	130x1/4"				
125	132	210	125	125	160x1/4"				
150	135	210	150	150	190x1/4"				

Butterfly valve K/M - K/M
Scheibenventil K/M - K/M

43060

Dimensions • Baumaße

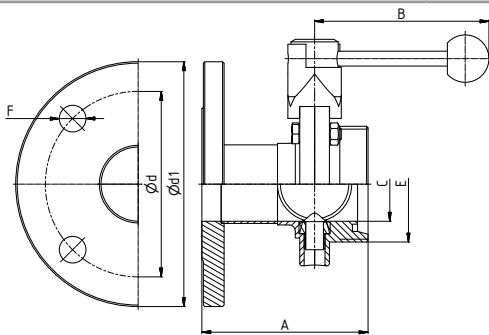


DN	A	B	C	E	F	G	R	L	Rd x s	kg
				DIN 405						
15	80	110	16	38x1/8"						
20	82	110	20	44x1/6"						
25	80	114	26	52x1/6"						
32	88	114	32	58x1/6"						
40	98	140	38	65x1/6"						
50	102	140	50	78x1/6"						
65	110	140	66	95x1/6"						
80	130	174	81	110x1/4"						
100	148	174	100	130x1/4"						
125	164	210	125	160x1/4"						
150	170	210	150	190x1/4"						

Butterfly valve PN - G
Scheibenventil PN - G

4307B

Dimensions • Baumaße

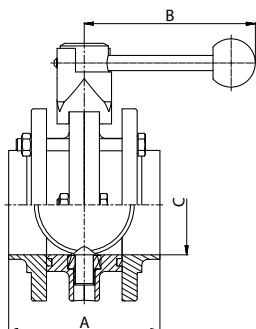


DN	A	B	C	E	d	d1	F	L	Rd x s	kg
				DIN 405						
25	106	114	26	52x1/6"	85x4	115	14			
32	106	114	32	58x1/6"	100x4	140	18			
40	110	140	38	65x1/6"	110x4	150	18			
50	112	140	50	78x1/6"	125x4	165	18			
65	122	140	66	95x1/6"	145x4	185	18			
80	135	174	81	110x1/4"	160x8	200	18			
100	140	174	100	130x1/4"	180x8	220	18			

Butterfly valve PN - PN
Scheibenventil PN - PN

43080

Dimensions • Baumaße



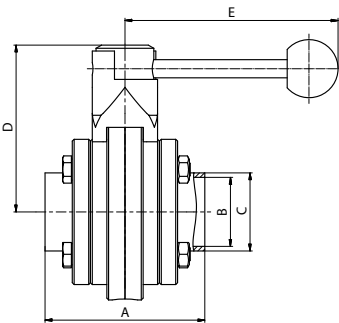
DN	A	B	C	E	F	F	R	L	Rd x s	kg
25	84	114	26							
32	86	114	32							
40	100	140	38							
50	100	140	50							
65	100	140	66							
80	120	174	81							
100	146	174	100							
125	168	210	125							
150	188	210	150							

VALVES AND COCKS VENTILE UND HÄHNE

Compact flange butterfly valve PN - PN
Kompaktzwischenflansch-
Scheibenventil PN - PN

43081

Dimensions • Baumaße

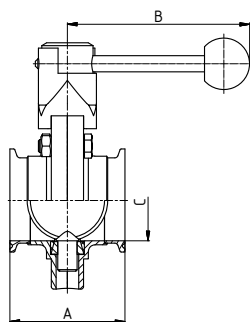


DN	A	B	C	D	E	F	R	L	Rd x s	kg
25	78	26	31	87	117					
32	78	32	37	90	117					
40	88	38	43	92	126					
50	88	50	53	98,5	126					
65	88	66	72	107,5	126					
80	120	81	87	120	153					
100	124	100	106	130	153					
125	140	125	132	160	205					
150	160	150	157	175	205					

Butterfly valve C - C
Scheibenventil C - C

43090

Dimensions • Baumaße

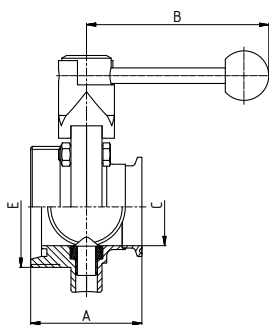


DN	A	B	C	D	E	F	R	L	Rd x s	kg
25	61,4	114	26							
32	63,4	114	32							
40	71,4	140	38							
50	71,4	140	50							
65	71,4	140	66							
80	81,4	174	81							
100	91,6	174	100							

Butterfly valve S - C
Scheibenventil S - C

43101

Dimensions • Baumaße

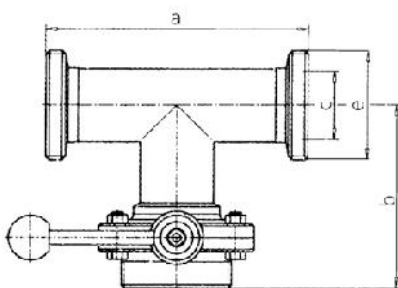


DN	A	B	C	D	E	F	R	L	Rd x s	kg
25	50,7	114	26							1,3
32	52,7	114	32							1,4
40	60,7	140	38							1,6
50	60,7	140	50							1,8
65	60,7	140	66							2,2
80	70,7	174	81							3,9
100	77,8	174	100							4,6

Tee with one butterfly valve G - G - G
Mehrwege-Scheibenventil G - G - G

43110

Dimensions • Baumaße

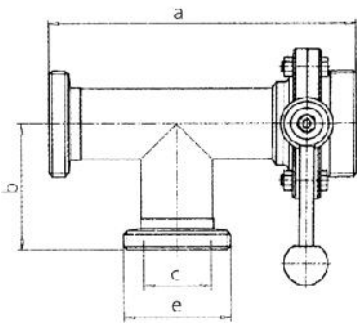


DN	A	B	C	E	F	F	R	L	Rd x s	kg
				DIN 405						
25	144	100	26	52x1/6"						
32	154	106	32	58x1/6"						
40	164	119	38	65x1/6"						
50	186	127	50	78x1/6"						
65	210	141	66	95x1/6"						
80	230	168	81	110x1/4"						
100	260	182	100	130x1/4"						
125	446	291,5	125	160x1/4"						
150	530	335	150	190x1/4"						

VALVES AND COCKS VENTILE UND HÄHNE

Tee with one butterfly valve G - G - G
Mehrwege-Scheibenventil G - G - G

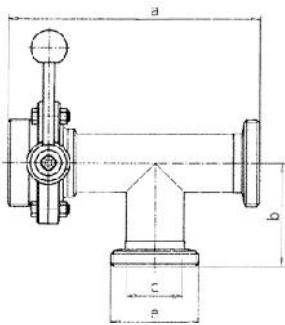
43120 Dimensions • Baumaße



DN	A	B	C	E	F	G	R	L	Rd x s	kg
				DIN 405						
25	172	72	26	52x1/6"						
32	183	77	32	58x1/6"						
40	201	82	38	65x1/6"						
50	222	93	50	78x1/6"						
65	146	105	66	95x1/6"						
80	283	115	81	110x1/4"						
100	312	130	100	130x1/4"						
125	514,5	223	125	160x1/4"						
150	600	265	150	190x1/4"						

Tee with one butterfly valve G - G - G
Mehrwege-Scheibenventil G - G - G

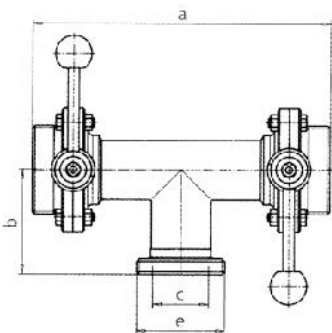
43130 Dimensions • Baumaße



DN	A	B	C	E	F	G	R	L	Rd x s	kg
				DIN 405						
25	172	72	26	52x1/6"						
32	183	77	32	58x1/6"						
40	201	82	38	65x1/6"						
50	222	93	50	78x1/6"						
65	146	105	66	95x1/6"						
80	283	115	81	110x1/4"						
100	312	130	100	130x1/4"						
125	514,5	223	125	160x1/4"						
150	600	265	150	190x1/4"						

Tee with two butterfly valves G - G - G
Mehrwege-Scheibenventil G - G - G

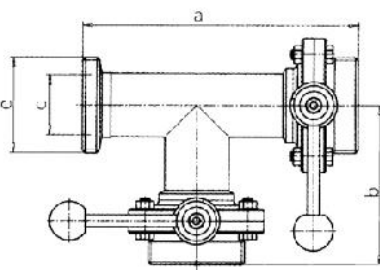
43140 Dimensions • Baumaße



DN	A	B	C	E	F	G	R	L	Rd x s	kg
				DIN 405						
25	200	72	26	52x1/6"						
32	212	77	32	58x1/6"						
40	238	82	38	65x1/6"						
50	258	93	50	78x1/6"						
65	282	105	66	95x1/6"						
80	336	115	81	110x1/4"						
100	364	130	100	130x1/4"						
125	583	223	125	160x1/4"						
150	670	265	150	190x1/4"						

Tee with two butterfly valves G - G - G
Mehrwege-Scheibenventil G - G - G

43150 Dimensions • Baumaße

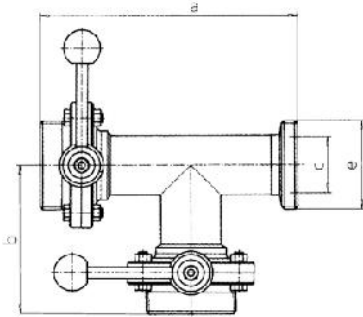


DN	A	B	C	E	F	G	R	L	Rd x s	kg
				DIN 405						
25	172	100	26	52x1/6"						
32	183	106	32	58x1/6"						
40	201	119	38	65x1/6"						
50	222	127	50	78x1/6"						
65	246	141	66	95x1/6"						
80	283	168	81	110x1/4"						
100	312	182	100	130x1/4"						
125	514,5	291,5	125	160x1/4"						
150	600	335	150	190x1/4"						

VALVES AND COCKS VENTILE UND HÄHNE

Tee with two butterfly valves G - G - G
Mehrwege-Scheibenventil G - G - G

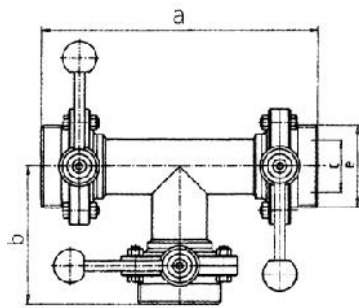
43160 Dimensions • Baumaße



DN	A	B	C	E	E	F	R	L	Rd x s	kg
				DIN 405						
25	172	100	26	52x1/6"						
32	183	106	32	58x1/6"						
40	201	119	38	65x1/6"						
50	222	127	50	78x1/6"						
65	246	141	66	95x1/6"						
80	283	168	81	110x1/4"						
100	312	182	100	130x1/4"						
125	514,5	291,5	125	160x1/4"						
150	600	335	150	190x1/4"						

Tee with three butterfly valves G - G - G
Mehrwege-Scheibenventil G - G - G

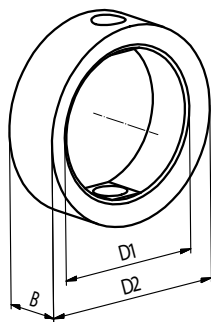
43170 Dimensions • Baumaße



DN	A	B	C	E	F	F	R	L	Rd x s	kg
				DIN 405						
25	200	100	26	52x1/6"						1,34
32	212	106	32	58x1/6"						1,39
40	238	119	38	65x1/6"						1,56
50	258	127	50	78x1/6"						1,76
65	282	141	66	95x1/6"						2,24
80	336	168	81	110x1/4"						3,91
100	364	182	100	130x1/4"						4,56
125	583	291,5	125	160x1/4"						
150	670	335	150	190x1/4"						

Gasket for butterfly valve
Dichtung für Scheibenventil

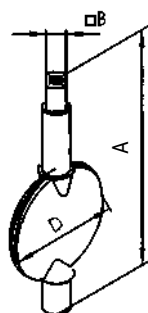
43280 Dimensions • Baumaße



DN	D1	D2	B	C	E	F	R	L	Rd x s	kg
25	26	40	20							
32	32	48	20							
40	38	54	21							
50	51	67	21							
65	67	85	22							
80	82	101	24							
100	101	116	26							
125	125	151	29							
150	150	175	29							


Butterfly disc
Drehklappe für Scheibenventil

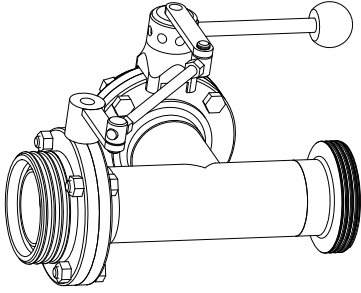
43290 Dimensions • Baumaße

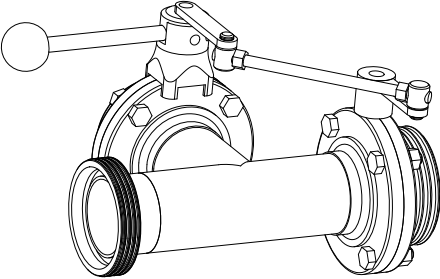


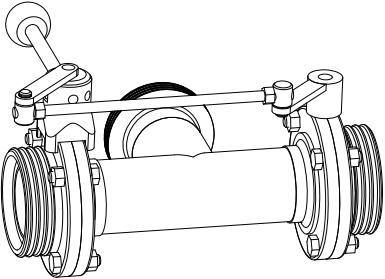
DN	A	B	C	D	E	F	R	L	Rd x s	kg
25	80	9,5		26						0,05
32	87,6	9,5		32						0,06
40	93,6	9,5		38						0,10
50	111	9,5		50						0,15
65	128,1	9,5		66						0,24
80	143,8	9,5		81						0,39
100	163,9	9,5		100						0,63
125	214	14,0		125						1,16
150	245,8	14,0		150						2,00

VALVES AND COCKS VENTILE UND HÄHNE

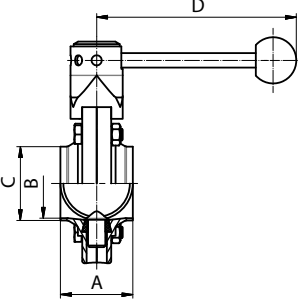
Butterfly valve bushing (pair) Scheibenventil-buchse (paar)	43300	Dimensions • Baumaße								
		DN	D1	D2	L1	E	R	L	Rd x s	kg
		25	10	12	5					
		32	10	12	5					
		40	12	14	10					
		50	12	14	10					
		65	12	14	10					
		80	14	16	12					
		100	14	16	12					
		125	18	20	18					
		150	18	20	18					

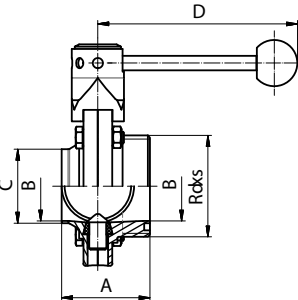
Tee with two butterfly valves G - G - G with combination handle Mehrwege-Scheibenventil G - G - G mit Schaltkombination	43310	Dimensions • Baumaße								
		DN	A	B	C	E	R	L	Rd x s	kg
		25								
		32								
		40								
		50								
		65								
		80								
		100								
		125								
		150								

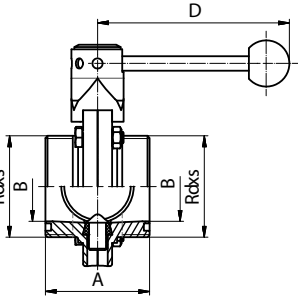
Tee with two butterfly valves G - G - G with combination handle Mehrwege-Scheibenventil G - G - G mit Schaltkombination	43320	Dimensions • Baumaße								
		DN	A	B	C	E	R	L	Rd x s	kg
		25								
		32								
		40								
		50								
		65								
		80								
		100								
		125								
		150								

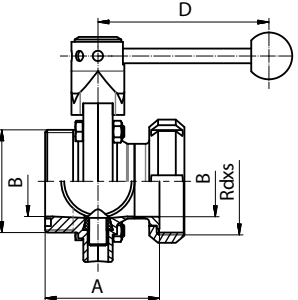
Tee with two butterfly valves G - G - G with combination handle Mehrwege-Scheibenventil G - G - G mit Schaltkombination	43330	Dimensions • Baumaße								
		DN	A	B	C	E	R	L	Rd x s	kg
		25								
		32								
		40								
		50								
		65								
		80								
		100								
		125								
		150								

VALVES AND COCKS VENTILE UND HÄHNE

Butterfly valve SMS S - S Scheibenventil SMS S - S	46010	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	F	F	R	L	Rd x s	kg
		25	40	22	25	102,5						
		38	50	35	38	102,5						
		51	50	48	51	132,5						
		63,5	50	60,5	63,5	132,5						
		76,1	60	72,1	76,1	155						
		101,6	64	97,6	101,6	155						

Butterfly valve SMS S - G Scheibenventil SMS S - G	46020	Dimensions • Baumaße										
	SMS	DN	A	B	C	D	E	G	R	L	Rd x s	kg
		25	52	22	25	102,5					DIN 405	
		38	61	35	38	102,5					40x1/6"	
		51	61	48	51	132,5					60x1/6"	
		63,5	63	60,5	63,5	132,5					70x1/6"	
		76,1	80	72,1	76,1	155					85x1/6"	
		101,6	84	97,6	101,6	155					98x1/6"	
											125x1/4"	

Butterfly valve SMS G - G Scheibenventil SMS G - G	46030	Dimensions • Baumaße										
	SMS	DN	A	B	D	E	F	F	R	L	Rd x s	kg
		25	64	22	102,5						DIN 405	
		38	72	35	102,5						40x1/6"	
		51	72	48	132,5						60x1/6"	
		63,5	76	60,5	132,5						70x1/6"	
		76,1	100	72,1	155						85x1/6"	
		101,6	104	97,6	155						98x1/6"	
											125x1/4"	

Butterfly valve SMS G - K/M Scheibenventil SMS G - K/M	46040	Dimensions • Baumaße										
	SMS	DN	A	B	D	E	F	G	R	L	Rd x s	kg
		25	67,5	22	102,5						DIN 405	
		38	77	35	102,5						40x1/6"	
		51	78	48	132,5						60x1/6"	
		63,5	80	60,5	132,5						70x1/6"	
		76,1	99	72,1	155						85x1/6"	
		101,6	103	97,6	155						98x1/6"	
											125x1/4"	

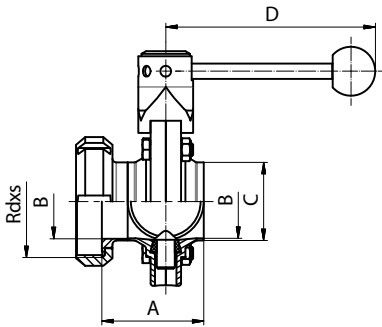
VALVES AND COCKS VENTILE UND HÄHNE

Butterfly valve SMS K/M - S
Scheibenventil SMS K/M - S

46050

Dimensions • Baumaße

SMS



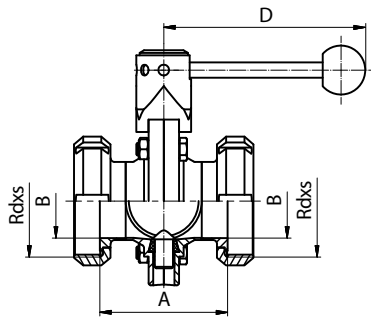
DN	A	B	C	D	F	F	R	L	Rd x s	kg
25	55,5	22	25	102,5					DIN 405	
38	66	35	38	102,5					40x1/6"	
51	67	48	51	132,5					60x1/6"	
63,5	67	60,5	63,5	132,5					70x1/6"	
76,1	79	72,1	76,1	155					85x1/6"	
101,6	83	97,6	101,6	155					98x1/6"	
									125x1/4"	

Butterfly valve SMS K/M - K/M
Scheibenventil SMS K/M - K/M

46060

Dimensions • Baumaße

SMS

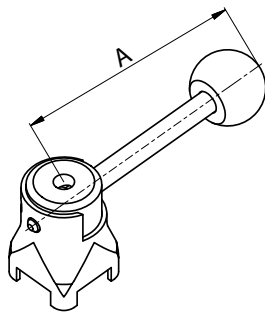


DN	A	B	D	D	E	G	R	L	Rd x s	kg
25	55,5	22	102,5						DIN 405	
38	66	35	102,5						40x1/6"	
51	67	48	132,5						60x1/6"	
63,5	67	60,5	132,5						70x1/6"	
76,1	79	72,1	155						85x1/6"	
101,6	83	97,6	155						98x1/6"	
									125x1/4"	

Handle for butterfly valve
Zuggriff für Scheibenventil

43380

Dimensions • Baumaße

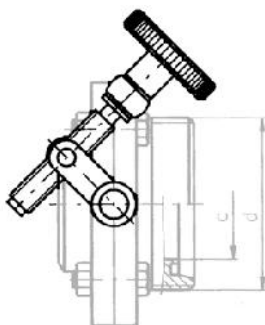


DN	A	B	D	E	F	F	R	L	Rd x s	kg
25-40	114									
50-65	140									
80-100	174									
125-150	210									

Handle-screw
Handgriff stufenlos

43400

Dimensions • Baumaße



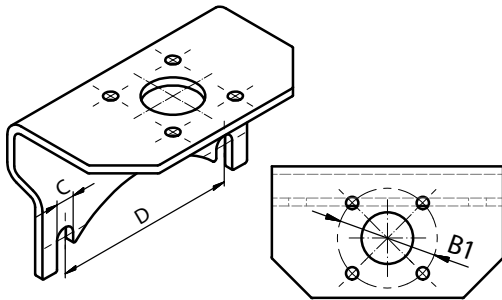
DN	A	B	D	E	F	G	R	L	Rd x s	kg
25										
32										
40										
50										
65										
80										
100										
125										
150										

VALVES AND COCKS VENTILE UND HÄHNE

Bracket of pneumatic actuator
Haltekonsole universal

43900

Dimensions • Baumaße

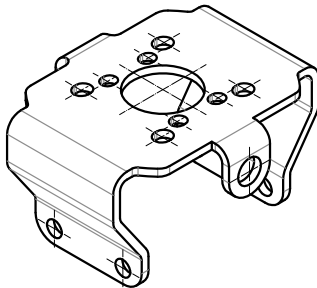


DN	B	B1	C	D			R	Rd x s	kg
15	F04		7	47					
20	F04		7	47					
25	F03,F04	F04,F05	9	51,6					
32	F03,F04	F04,F05	9	55,2					
40	F04,F05		9	58,4					
50	F05		9	67,6					
65	F05		9	79,6					
80	F05		9	90,2					
100	F05		9	104,3					
125	F07		9	90					
150	F07		9	105					

Bracket of pneumatic acuator for 43081
Haltekonsole für 43081

43906

Dimensions • Baumaße

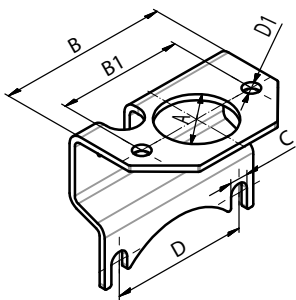


DN	A	B	C	D	E	G	R	L	Rd x s	kg
25-32	F05									
40	F05									
50-65	F05									
80-100	F05-F07									

Bracket of pneumatic actuator Type D
Haltekonsole universal Typ D

43910

Dimensions • Baumaße

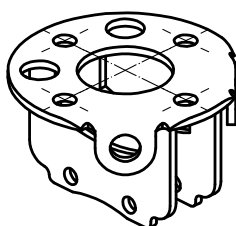


DN	A	B	B1	C	D	D1	R	L	Rd x s	kg
25	35	78	62	9	51,6	8,2				
32	35	82	62	9	55,2	8,2				
40	35	86	62	9	58,4	8,2				
50	35	84	62	9	67,6	8,2				
65	35	106	62	9	79,6	8,2				
80	35	116	62	9	90,2	8,2				
100	35	131	62	9	104,3	8,2				
125	35	120	62	11	90	10,2				

Bracket of pneumatic actuator Type C
Haltekonsole universal Typ C

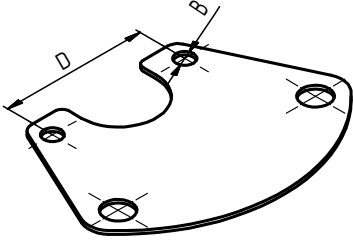
43920


Dimensions • Baumaße

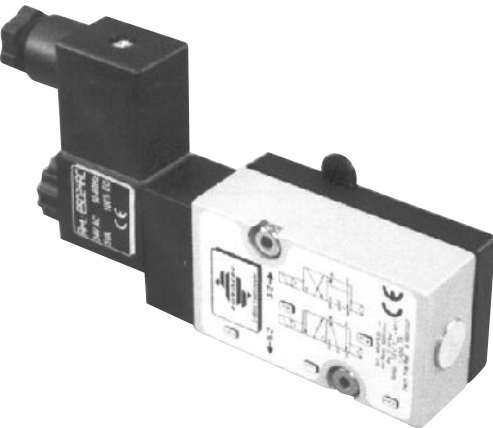


DN	A	B	C	D	E	G	R	L	Rd x s	kg
25 - 65										
80 - 100										

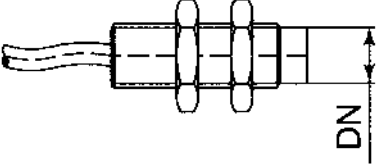
VALVES AND COCKS VENTILE UND HÄHNE

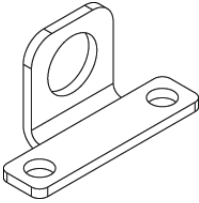
Holding device Halteblech für Nahrungsinitiator	44231	Dimensions • Baumae												
		DN	A	B	C	D	E	F	R	L	Rd x s	kg		
		25-100		8,2		62							0,04	

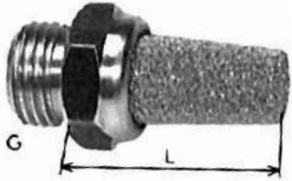
Solenoid valve directly 3/2 Magnetventil direkt	44270	Dimensions • Baumae										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
		Anschluss / Air entry		G 1/8"		Description						
		Nennweite / Dimension		1,3 mm		- Solenoid valve directly operated with 3/2- ways function						
		Arbeitsdruck / Air pressure		0-10 bar		- All entries have G 1/8"						
		Temperatur / Temperature		-10 C - +70 C		- Single stable version						
		Schutzart / Enclosure		GI 65 - DIN 40050		- Body Aluminium anodised, with minimal external dimensions						
		Spannung / Voltage		24V AC 24V DC 230V AC		- Giston Stainless steel AISI 303						
		Leistung / Gower consumption		5VA 3W 5VA		- Sealings NBR						
		Nenndurchfluss / Air flow		50 l/min		- Screws Stainless steel AISI 304						
						Beschreibund						
						- Magnetventil direkt gesteuert mit 3/2- Wege Funktion						
				- Alle Anschlusse haben G1/8"								
				- Federruckstellung								
				- Gehause Aluminium eloxiert, mit minimalen Auenabmessungen								
				- Kolben Edelstahl 1.4305								
				- Dichtungen NBR								
				- Schrauben Edelstahl 1.4301								


Solenoid valve Magnetventil	44300	Dimensions • Baumae										
		DN	A	B	D1	D2	L1	F	R	L	Rd x s	kg
		Description										
		- Solenoid valve NAMUR with combined 5/2 - and 3/2 - ways function with standard coil and connector										
		- Easy change over from 5/2 - to 3/2 - ways operation by innovative sealing plate										
		- Single stable version										
		- Manual override as standard										
		- Body Aluminium anodised, with minimal external dimensions										
		- NAMUR coupling plate GA 6 - 30 % Glass fibre										
		- Giston Stainless steel AISI 303, Sealings NBR, Screws Stainless steel AISI 304										
		Beschreibund										
		- Magnetventil NAMUR mit kombinierter 5/2 - und 3/2 - Wege Funktion mit Standardspule und Geratestecker										
- Leichtes Umschalten von 5/2 - auf 3/2 - Wege durch innovative Wendedichtung												
- Luftfederruckstellung												
- Serienmaig mit Notbetatigung												
- Gehause Aluminium eloxiert, mit minimalen Auenabmessungen												
- NAMUR Adapterplatte GA6 - 30% GF												
- Kolben Edelstahl 1.4305, Dichtungen NBR, Schrauben Edelstahl 1.4301												
Anschluss / Air entry		G 1/4"										
Nennweite / Dimension		5,5 mm										
Arbeitsdruck / Air pressure		2-10 bar										
Temperatur / Temperature		-10 C - +50 C										
Schutzart / Enclosure		GI 65 - DIN 40050										
Spannung / Voltage		24V AC 24V DC 230V AC										
Leistung / Gower consumption		5VA 3W 5VA										
Nenndurchfluss / Air flow		950 l/min										

VALVES AND COCKS VENTILE UND HÄHNE


Proximity switch Näherungsinitiator	44360	Dimensions • Baumaße										
		DN	A	B	C	D	E	L	R	Rd x s	kg	
		M8 x 1										
		M12 x 1										


Support of proximity switch Halteblech für Näherungsinitiator	44370	Dimensions • Baumaße											
		DN	A	B	D	D	E	G	R	L	Rd x s	kg	
													


Noise silencer Schalldämpfer	44420	Dimensions • Baumaße											
		DN	G	L	C	D	E	F	R	L	Rd x s	kg	
		G 1/8	G 1/8"	21,5									
		G 1/4	G 1/4"	26,5									

Screw union Schraubung	44430	Dimensions • Baumaße										
		DN	A	B	D	E	F	G	R	L	Rd x s	kg
		G 1/8 - 4	G 1/8"	4								
		G 1/8 - 6	G 1/8"	6								
		G 1/8 - 8	G 1/8"	8								
		G 1/8 - 10	G 1/8"	10								
		G 1/4 - 4	G 1/4"	4								
		G 1/4 - 6	G 1/4"	6								
		G 1/4 - 8	G 1/4"	8								
		G 1/4 - 10	G 1/4"	10								
		G 1/4 - 12	G 1/4"	12								

VALVES AND COCKS VENTILE UND HÄHNE

Electric drive Elektroantrieb	44590	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	R	L	Rd x s
		Type	Max Torque Nm	Flange ISO	Switch On-Off	Switch Positioner	24V DC	Operating Time, 90°	85-240VAC 50 - 60 HZ	1x220-23 VAC 50 - 60 HZ	Power kW
		AQ3L	30	F03/F04/F05	✓	✓	✓	15	✓	✗	0,02
		AQ7L	70	F05/F07	✓	✓	✓	15	✓	✗	0,02
		AQ15	150	F05/F07	✓	✓	✓	30 / 25	✗	✓	0,03

Control box Steuerkopf	44710-C3	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
		TYPES: 44710 C3A EKO - air manifold GOM + 2x micro switch, LED 44710 C3B STANDARD - air manifold GOM + 2x proximity sensor, LED 44710 C3C MAX - air manifold 1.4301 + 2x proximity sensor, LED										
		POSITION SENSING: micro switch: 12 - 30 V proximity sensor: 12 - 30 V										
		SOLENOID VALVE: 24 V DC										
		LED LIGHTING: 3W (red and green)										
	AIR CONNECTION: for compressed air hose 6/4											
	TEMPERATURE OF ENVIRONMENT: -15°C to +60°C											

Digital electropneumatic positioner Elektropneumatischer Stellungsregler	44800	Dimensions • Baumaße										
		DN	A	B	C	E	F	F	R	L	Rd x s	kg
		Material Body Seal		Aluminium plastic-coated EGDM, NBR, FKM								
		Operating voltages		24 VDC +/- 10%								
		Residual ripple		max. 10%								
		Setpoint setting		0/4 to 20 mA and 0 to 5/10 V								
		Input resistance		0/4 to 20 mA: 180 Ω 0 to 5/10 mA: 19 kΩ								
		Analogue feedback		4 - 20 mA, 0 - 20 mA 0 - 10 V, 0 - 5 V								
		Binary input		galvanically isolated, 0 - 5 V = log "0", 10 - 30 V = log "1"								
		Binary output Current limit		2 Outputs (optional), galvanically separated 100 mA, Output will be synchronised when overloaded								
		Control medium		Neutral gases, air DIN ISO 8573-1								
		Dust concentration		Class 5 (< 40 µm particle size)								
		Garticle density		Class 5 (< 10 mg/m³)								
		Gressure condensation point		Class 3 (< -20°C)								
		Oil concentration		Class 5 (< 25 mg/m³)								
		Ambient temperature		0 to +6°C								
		Gilot air ports		Threaded ports G 1/4								
	Supply pressure		1,4 to 7 bar ¹⁾									
	Air supply filter		Exchangeable (aperture size ~ 0,1 mm)									
	Actuator system Air capacity		single and double-acting to 150 l/min. 95 l/min. (with 1,4 bar ²⁾) for aeration and ventilation 150 l/min (with 6 bar ²⁾) for aeration and ventilation Q _{Nn} = 100 lnp/min (acc. to the definition with decrease in pressure from 7 to 6 bar absolute)									
	Gosition detection module		Gotentiometer, max. angle 1800									
	Stroke range valve spindle		min. 30° on the rotary shaft, depending on lever									
	Installation		as required, display above or sideways									
	Type of protection		IG 65/67 acc. to EN 60529 (NEMA4x in preparation)									
	Gower consumption		< 5 W									
	Electrical connection		M12, 8-pin/4-pin; M8, 4-pin									
	Multipole connection		2x M 20 x 1,5 (cable Ø 10 mm) on screw terminals (0,14 - 1,5 mm ²)									
	Cable gland		1x M 12 x 1,5 (cable Ø 3 to 6,5 mm)									
	Remote version											
	Bus communication		Grofi bus DGV1 (optional)									
	Inductive proximity switch		on request									
	Grotection class		3 acc. to VDE 0580									
	Type of ignition protection		II 3 G nA II B T4 (in preparation) II 3 D TD A22 T135° (in preparation)									
	Conformity		EMV2004/108/EG									
	Approvals		CSA (in preparation)									

The robust and compact positioner is designed to standardisation acc. to IEC 534-6 or VDI/VDE 3845 for assembly with linear and rotary actuators. In addition, the remote version with the displacement position sensor can be com-bined with Bürkert process control valves. The digital electropneumatic positioner SideControl can be operated with the usual current and voltage standard signals and can also be equipped with the fi eldbus interface GROBUS DGV1. Additionally to the digital graphic display the valve opening is signaled by a mechanical indicator element.

Operation occurs via the external operation and display module. It consists of a backlit graphical display and a robust transparency keyboard with four keys with software driven function indication. For the user operation is very simple and clear, identical to the Bürkert positioner or process controller TopControl, Type 8692/8693.

The pilot valve system can be used equally for single and doubleact-ing drives. It is characterised by a defi ned safety feature in case of failure of the electrical or pneumatic power supply and possesses an enormous air capacity range with pressure supply up to 7 bar.

- o Compact metal housing
- o Graphic display with backlight
- o Easy start-up
- o Comprehensive range of additional software functions
- o Grofibus DGV 1 (optional)
- o Assembly acc. to IEC 534-6 / VDI VDE 3845

¹⁾ The supply pressure has to be 0,5 - 1 bar above the minimum required pilot pressure for the valve actuator

²⁾ Gressure specifications: Overpressure with respect to atmospheric pressure

VALVES AND COCKS

VENTILE UND HÄHNE

Digital electropneumatic positioner
Elektropneumatischer Stellungsregler

44801

Dimensions • Baumaße

The compact positioner Type 8692 is optimized for integrated mounting on the pneumatic actuators in the process valve series Type 23xx/2103 and is specially designed for the requirements of a hygienic process environment. The control air channel is integrated in the actuator without external tubings. The easy handling and the selection of additional software functions are done either on a big graphic display with backlight and keypad or over COMMUNICATOR.



The positioner registers the valve position without deterioration through a contact-free, analog position sensor. The control of single or double-acting actuators is done without internal air consumption. With integrated diagnostic functions operation conditions of the control valve can be monitored. Through status signals, valve diagnostic messages are transmitted according to NAMUR NE107 and recorded as history entries.

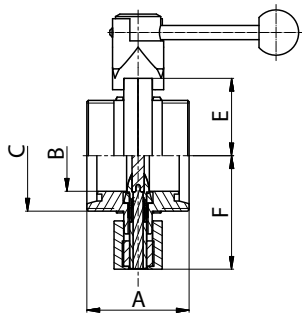
The housing is easy to clean and features proven IP protection and chemically resistant materials for use in hygienic processing, in food, beverage and pharmaceutical industries. Combined with Bürkert ELEMENT actuators the unique pilot valve system enables a compressed air recycling that avoids actuator chambers contamination from the environment.

Technical data	
Material	Body: PPS, stainless steel Cover: PC Sealing: EPDM
Power supply	24 V DC ± 10 % UL: NEC Class 2
Residual ripple	max. 10 %
Setpoint setting	0/4 to 20 mA and 0 to 5/10 V
Output resistance	0/4 to 20 mA: 180 Ω 0 to 5/10 V: 19 k Ω
Control medium	neutral gases, air, quality classes acc. to ISO 8573-1 Dust concentration: Class 7 (<40 µm particle size) Particle density: Class 5 (<10 mg/m³) Pressure condensation point: Class 3 (<-20 °C) Oil concentration: Class X (<25 mg/m³)
Ambient temperature	-10 to +55 °C
Pilot air ports	Threaded ports G ¹ / ₈ stainless steel or
Supply pressure	Low air flow rate: 0 to 7 bar ¹⁾ High air flow rate: 3 to 7 bar
Air input filter	Exchangeable (mesh aperture ~0.1 mm)
Actuator system	Actuator series Type 23xx: Low air flow rate: ∅ Actuator 70/90 mm High air flow rate: ∅ Actuator 130 mm Actuator series Type 27xx: High air flow rate: ∅ Actuator 175/225 mm
Position detection module	Contact-free, wear-free
Stroke range valve spindle	3 to 45 mm
Installation	as required, preferably with actuator in upright position
Protection type	IP65/IP67 acc. to EN 60529, Type 4X acc. to NEMA 250 standard
Protection class	3 acc. to DIN EN 61140
Power consumption	<5 W
Electrical connection	Multipole connection: M12, 8-pins or 4-pins Cable gland: 2xM16 × 1.5 (cable-∅ 5–10 mm) with connection terminals for cable cross-sections 0.14–1.5 mm²
Bus communication	PROFIBUS DP-V1, DeviceNet, EtherNet/IP, PROFINET, Modbus TCP, busS - Bürkert System Bus (based on CANopen)

Leakage butterfly valves G - G
Leckage Scheibenventil G - G

45613

Dimensions • Baumaße

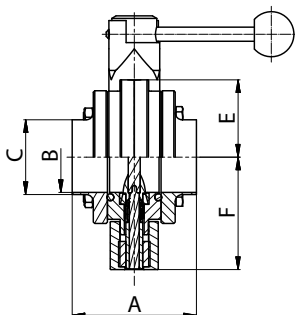


DN	A	B	C	E	F	G	Rd x s	kg
DIN 405								
25	64	26	52x1/6"	43,5	65			
32	64	32	58x1/6"	46	68			
40	72	38	65x1/6"	48,5	71			
50	72	50	78x1/6"	55	80			
65	76	66	95x1/6"	63,5	89			
80	100	81	110x1/4"	71	99			
100	104	100	130x1/4"	81	109			

Leakage butterfly valve with compact flange S - S
Zwischenflansche Leckage Scheibenventil S - S

45618

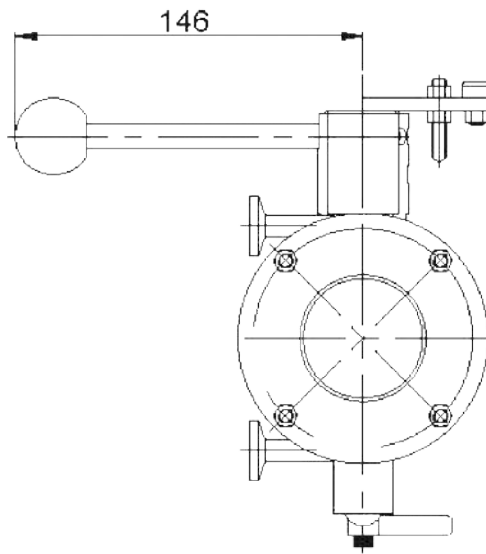
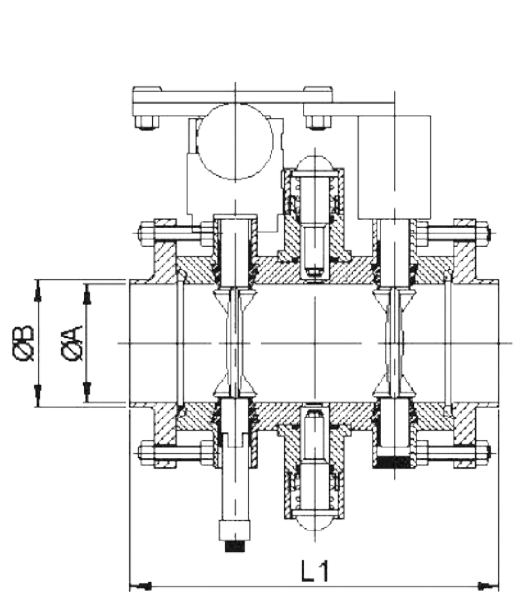
Dimensions • Baumaße



DN	A	B	C	E	F	G	Rd x s	kg
40	88	38	43	48,5	71			
50	88	50	53	55	80			
65	88	66	72	63,5	89			

VALVES AND COCKS VENTILE UND HÄHNE

Leakage butterfly valves G - G
Leckage Scheibenventil G - G



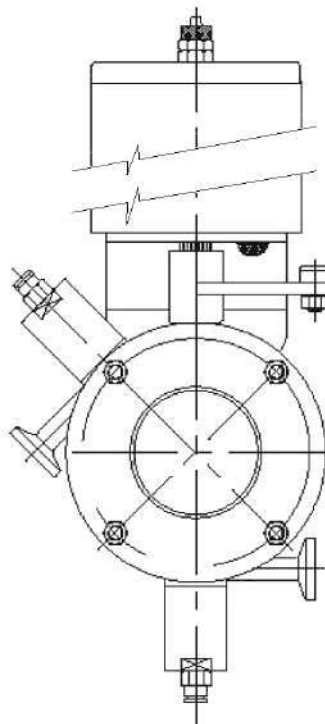
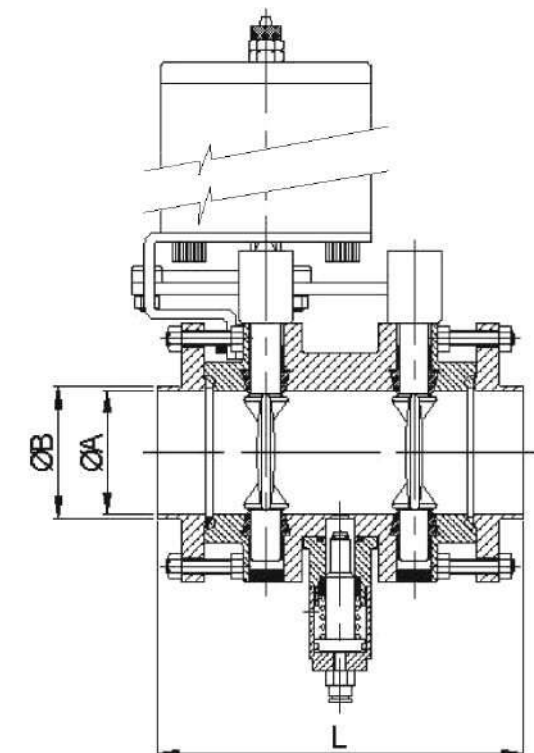
45628

Dimensions • Baumaße

DIN

DN	A	B	C	D
25	122		26	87
32	122		32	92
40	130		38	97
50	130		50	110
65	146		66	127
80	185		81	142
100	209		100	162
125				
150				

Leakage butterfly valves C - C
Leckage Scheibenventil S - S DIN



45628 - P20

Dimensions • Baumaße

DIN

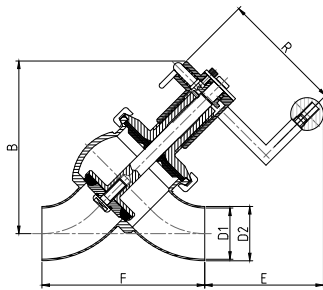
DN	A	B	C	D
25	148	30	26	87
32	148	36	32	92
40	158	42	38	97
50	158	54	50	110
65	170	71	66	127
80	221	86	81	142
100	221	105	100	162
125				
150				

VALVES AND COCKS VENTILE UND HÄHNE

Inline seat valve S - S, Type - Y
Inline - ventil S - S, Typ - Y

47290

Dimensions • Baumaße

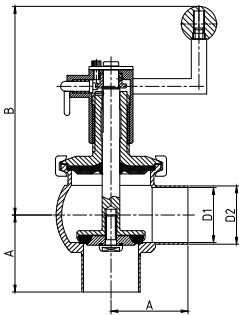


DN	R	B	C	D1	D2	E	F	L	Rd x s	kg
25	60	124		26	29	69	111,8			
40	120	160		38	41	117	145,4			
50	120	168		50	53	115	159,0			
65	120	198		66	70	122	187,2			
80	120	204		81	85	113	205,9			

Angle seat valve S - S, Type - L
Eckventil S - S, Typ - L

47300

Dimensions • Baumaße

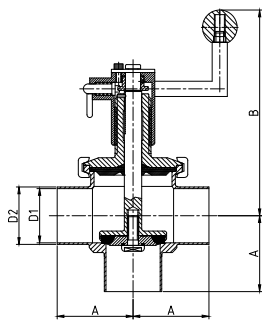


DN	A	B	C	D1	D2	F	R	L	Rd x s	kg
25	50	135		26	29					
40	60	181		38	41					
50	70	189		50	53					
65	80	218		66	70					
80	90	219		81	85					

Double angle seat valve S - S - S, Type - T
Doppel eckventil S - S - S, Typ - T

47310

Dimensions • Baumaße

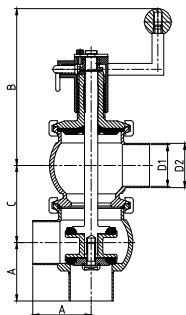


DN	A	B	C	D1	D2	G	R	L	Rd x s	kg
25	50	135		26	29					
40	60	181		38	41					
50	70	189		50	53					
65	80	218		66	70					
80	90	219		81	85					

Change over valve S - S - S, Type - LL
Umstellventil S - S - S, Typ - LL

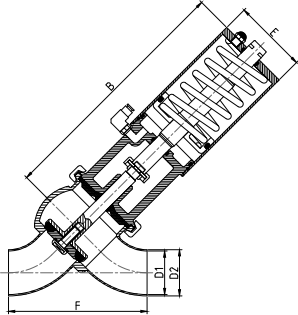
47320

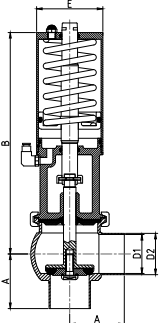
Dimensions • Baumaße

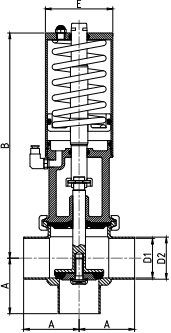


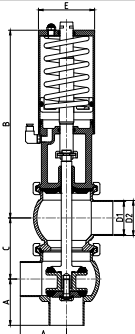
DN	A	B	C	D1	D2	F	R	L	Rd x s	kg
25	50	119	56,6	26	29					
40	60	184	80,0	38	41					
50	70	188	92,4	50	53					
65	80	221	120,0	66	70					
80	90	226	128,0	81	85					

VALVES AND COCKS VENTILE UND HÄHNE

Inline seat valve S - S, Type - Y, pneumatic Inline - ventil S - S, Typ - Y, pneumatisch	4729 C-P45	Dimensions • Baumaße									
	NC	DN	A	B	D1	D2	E	F	L	Rd x s	kg
	25		47,0	26	29	60	111,8				
	40		277,7	38	41	85	145,4				
	50		284,1	50	53	85	159,0				
	65		357,8	66	70	133	187,2				
	85		360,9	81	85	133	205,9				

Angle seat valve S - S, Type - L, pneumatic Eckventil S - S, Typ - L, pneumatisch	4730 C-P45	Dimensions • Baumaße									
	NC	DN	A	B	C	D1	D2	E	L	Rd x s	kg
	25	50	147,0			26	29	60			
	40	60	277,7			38	41	85			
	50	70	284,1			50	53	85			
	65	80	357,8			66	70	133			
	85	90	360,9			81	85	133			

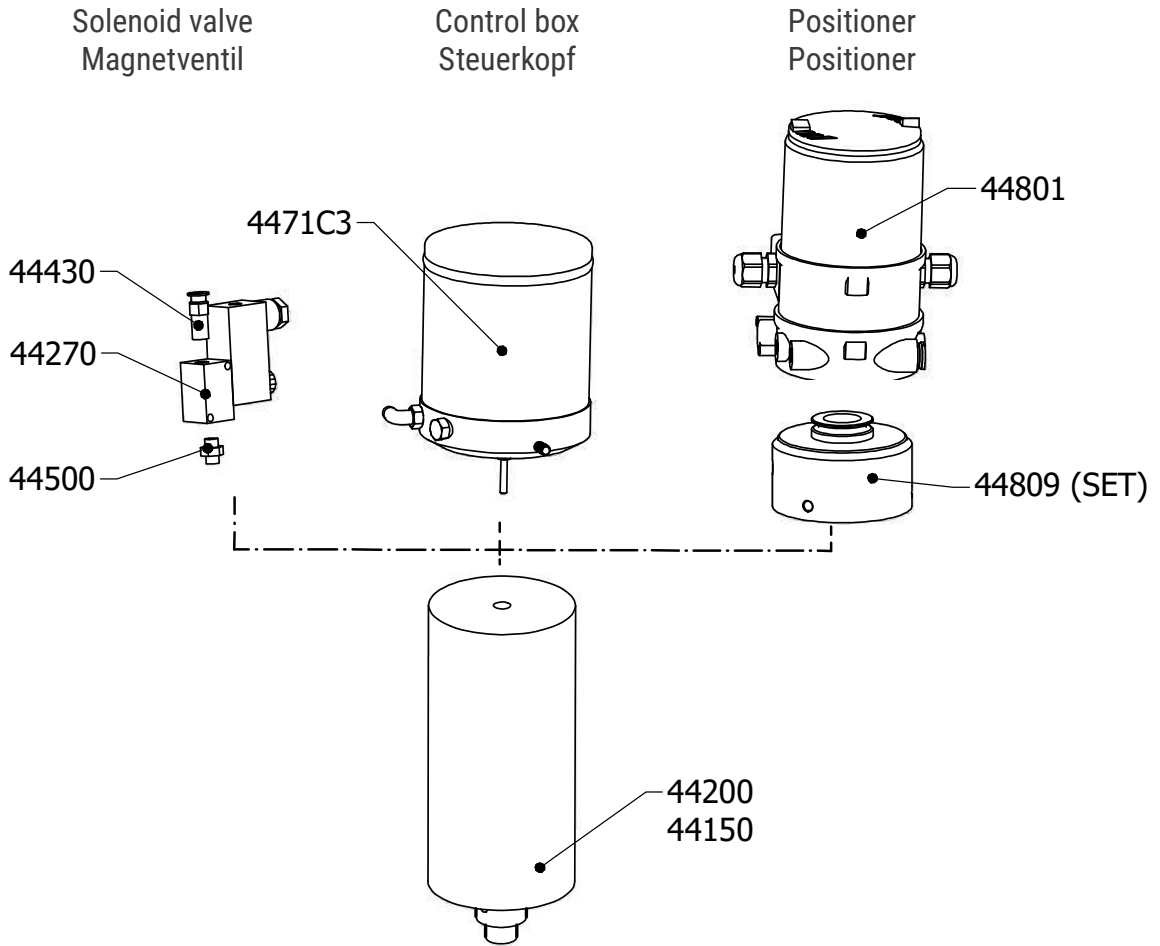
Double angle seat valve S - S - S, Type - T, pneumatic Doppel eckventil S - S - S, Typ - T, pneumatisch	4731 C-P45	Dimensions • Baumaße									
	NC	DN	A	B	C	D1	D2	E	L	Rd x s	kg
	25	50	147,0			26	29	60			
	40	60	277,7			38	41	85			
	50	70	284,1			50	53	85			
	65	80	357,8			66	70	133			
	85	90	360,9			81	85	133			

Change over valve S - S - S, Type - LL, pneumatic Umstellventil S - S - S, Typ - LL, pneumatisch	4732 C-P45	Dimensions • Baumaße									
	NC	DN	A	B	C	D	E	R	L	Rd x s	kg
	25	50	147,0	56,6	26	29	60				
	40	60	277,7	80,0	38	41	85				
	50	70	284,1	92,4	50	53	85				
	65	80	357,8	120,0	66	70	133				
	85	90	360,9	128,1	81	85	133				

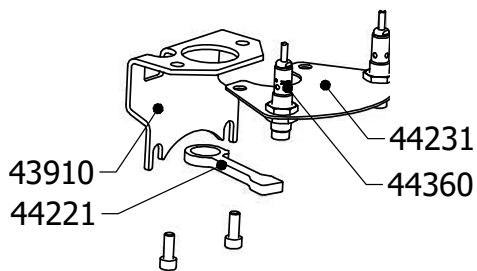
VALVES AND COCKS VENTILE UND HÄHNE

Butterfly valve with pneumatic actuator 44200 (44150) - variants signaling and control

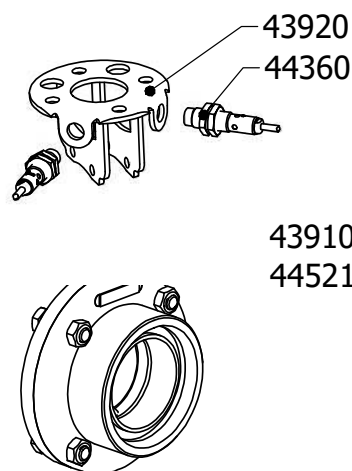
Scheibenventil mit pneumatischantriebe 44200 (44150) - varianten signalisierung und kontrolle



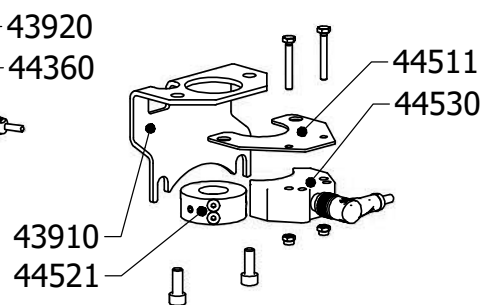
typ N1



typ N2



typ N3



VALVES AND COCKS VENTILE UND HÄHNE

Butterfly valve with pneumatic actuator Air Torque - variants signaling and control

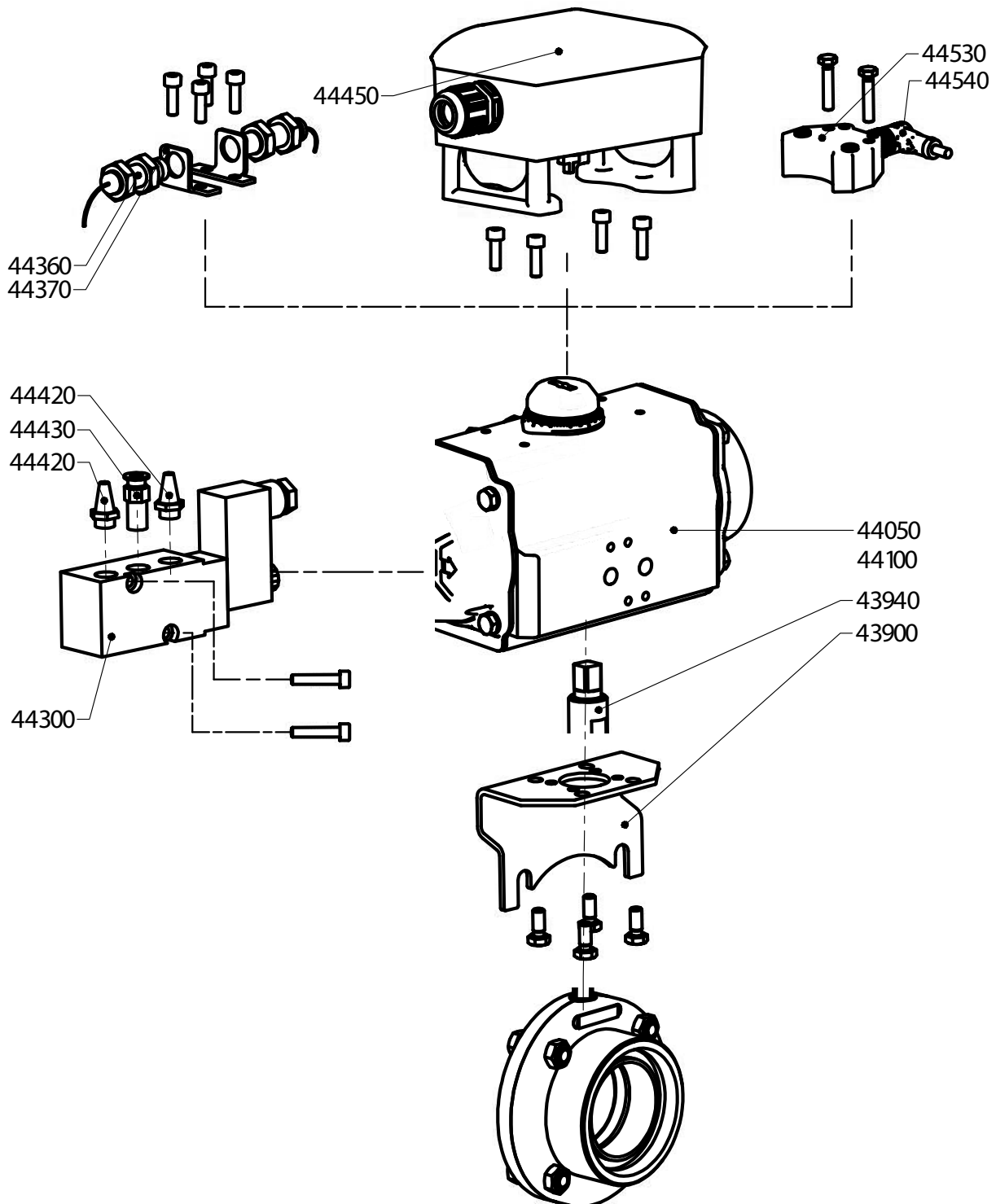
Scheibenventil mit pneumatischantriebe Air Torque - varianten signalisierung und kontrolle

Position detection – Positionserfassungs

Type A1

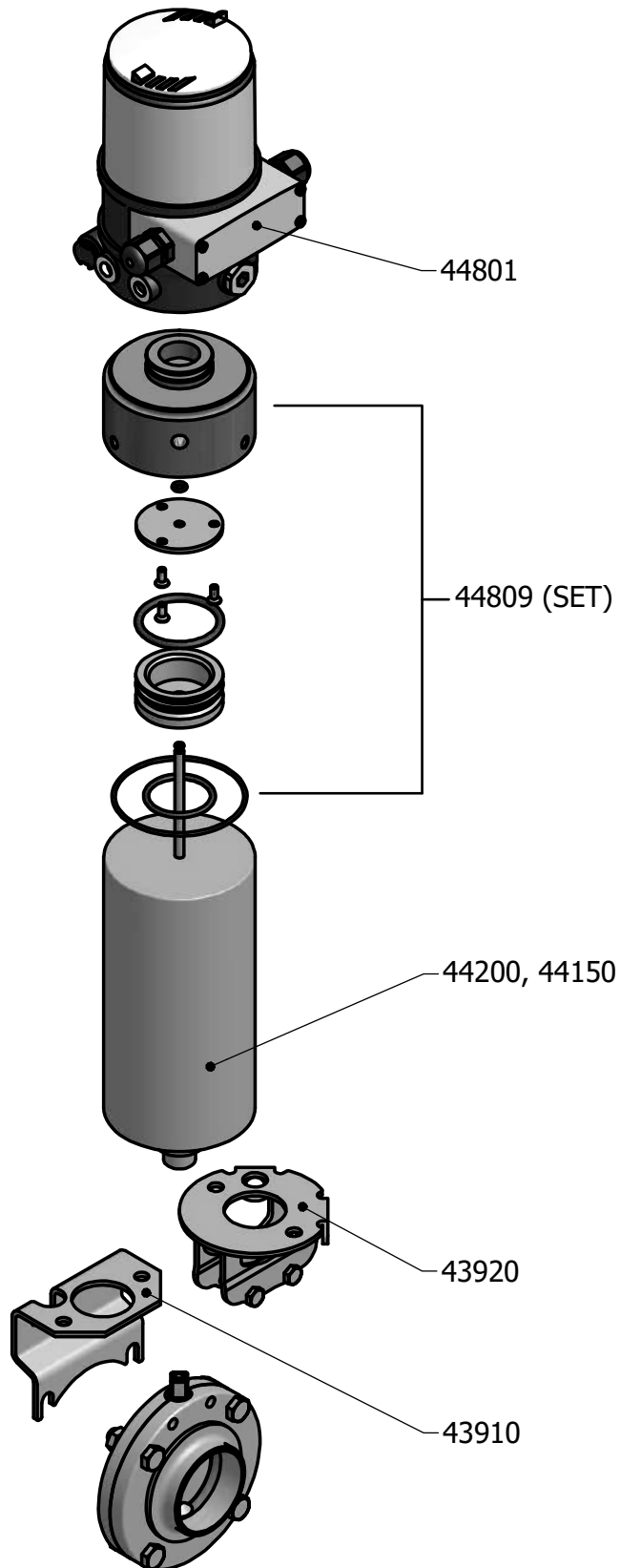
Type A2

Type A3



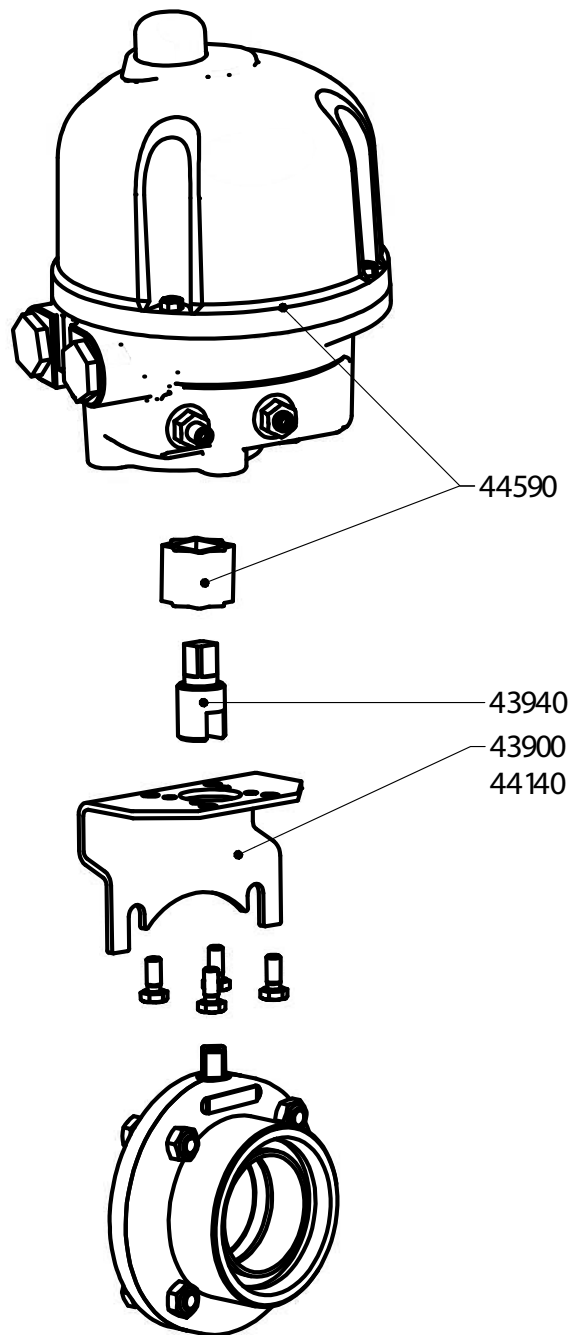
VALVES AND COCKS VENTILE UND HÄHNE

Flap and pneumatic actuator assembly with control head
Klappe und pneumatischer Antrieb mit Steuerkopf



VALVES AND COCKS VENTILE UND HÄHNE

Butterfly valve with electric drive
Scheibenventil mit Elektroantrieb

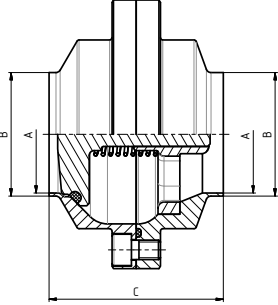


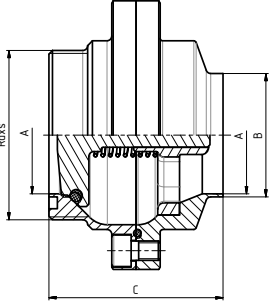
PRODUCER OF STAINLESS PIPING SYSTEMS
HERSTELLER VON EDELSTAHLARMATUREN

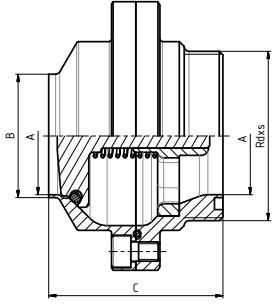
SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

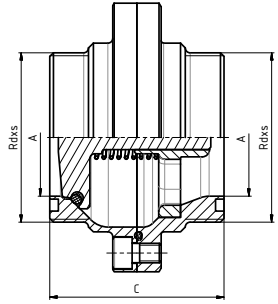


SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

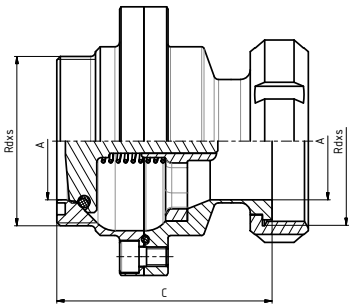
Check valve S - S Tellerrückschlagventil S - S	5060D	Dimensions • Abmessungen										
	SMS	DN	A	B	C	D	E	F	G	H	Rd x s	kg
		25	22,5	25	64							
		38	35,5	38	72							
		51	48,5	51	72							
		63,5	60,5	63,5	76							
		76	72,9	76,1	96							

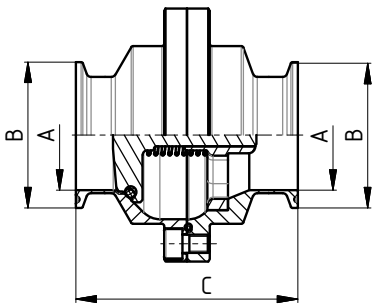
Check valve G - S Tellerrückschlagventil G - S	5061D	Dimensions • Abmessungen										
	SMS	DN	A	B	C	D	E	F	G	H	Rd x s	kg
		25	22,5	25	64						40x1/6"	
		38	35,5	38	72						60x1/6"	
		51	48,5	51	72						70x1/6"	
		63,5	60,5	63,5	76						85x1/6"	
		76	72,9	76,1	96						98x1/6"	

Check valve S - G Tellerrückschlagventil S - G	5062D	Dimensions • Abmessungen										
	SMS	DN	A	B	C	D	E	F	G	H	Rd x s	kg
		25	22,5	25	64						40x1/6"	
		38	35,5	38	72						60x1/6"	
		51	48,5	51	72						70x1/6"	
		63,5	60,5	63,5	76						85x1/6"	
		76	72,9	76,1	96						98x1/6"	

Check valve G - G Tellerrückschlagventil G - G	5063D	Dimensions • Abmessungen										
	SMS	DN	A	B	C	D	E	F	G	H	Rd x s	kg
		25			64						40x1/6"	
		38			72						60x1/6"	
		51			72						70x1/6"	
		63,5			76						85x1/6"	
		76			96						98x1/6"	

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Check valve G - K/M Tellerrückschlagventil G - K/M	5064D	Dimensions • Abmessungen										
	SMS	DN	A	B	C	D	E	F	G	H	Rd x s	kg
		25	22,5		83						40x1/6"	
		38	35,5		95						60x1/6"	
		51	48,5		95						70x1/6"	
		63,5	60,5		103						85x1/6"	
		76	72,9		123						98x1/6"	

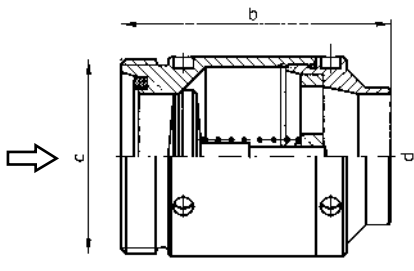
Check valve C - C Tellerrückschlagventil C - C	5069D	Dimensions • Abmessungen										
	SMS	DN	A	B	C	D	E	F	G	H	Rd x s	kg
		25	22,5	50,5	89,7							
		38	35,5	50,5	97,4							
		51	48,5	64	97,4							
		63,5	60,5	77,5	101,4							
		76	72,9	91	121,4							

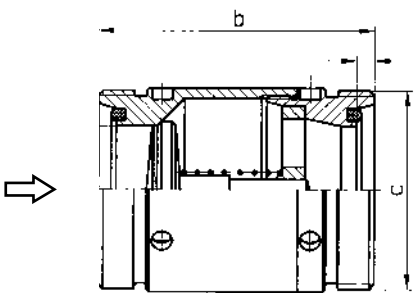
		Dimensions • Abmessungen										
		DN	A	B	C	D	E	F	G	H	Rd x s	kg

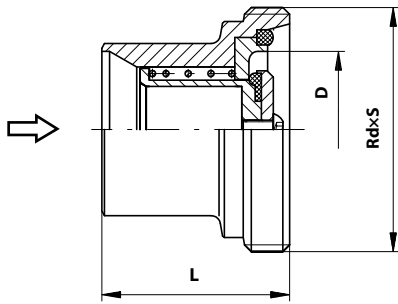
		Dimensions • Abmessungen										
		DN	A	B	C	D	E	F	G	H	Rd x s	kg

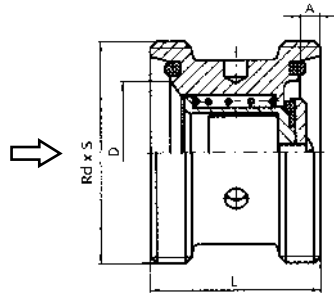
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Check valve G - S Tellerrückschlagventil G - S	5081A	Dimensions • Abmessungen								
		DN	A	C	D	E	F	R	L	Rd x s
			DIN 405							
		10	60	28 x 1/8"	10					0,18
		15	60	34 x 1/8"	16					0,24
		20	70	44 x 1/6"	20					0,3

Check valve G - G Tellerrückschlagventil G - G	5083A	Dimensions • Abmessungen								
		DN	B	C	D	E	F	R	L	Rd x s
			DIN 405							
		10	60	28 x 1/8"	10					0,19
		15	60	34 x 1/8"	16					0,25
		20	70	44 x 1/6"	20					0,31

Check valve S - G Tellerrückschlagventil S - G	5082B	Dimensions • Abmessungen									
		DN	A	B	C	D	E	F	R	L	Rd x s
		025				26			42		0,210
		032				32			50		0,300
		040				38			50		0,390
		050				50			60		0,680
		065				66			70		1,400
		080				81			80		2,000

Check valve G - G Tellerrückschlagventil G - G	5083B	Dimensions • Abmessungen									
		DN	A	B	C	D	E	F	R	L	Rd x s
										DIN 405	
		25	7			26			42	52 x 1/6"	0,30
		32	7			32			50	58 x 1/6"	0,41
		40	7			38			50	65 x 1/6"	0,60
		50	7			50			60	78 x 1/6"	1,05
		65	8			66			70	95 x 1/6"	

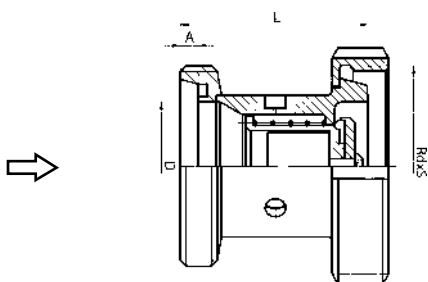
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Check valve G - K/M
Tellerrückschlagventil G - K/M

5084B

Dimensions • Abmessungen

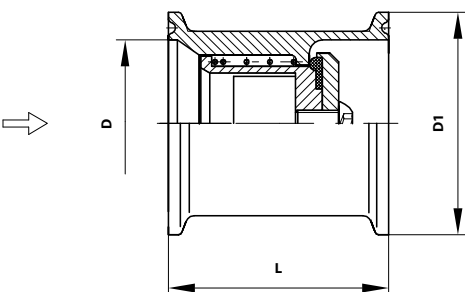


DN	A	B	C	D	E	F	R	L	Rd x s	kg
									DIN 405	
25	7			26				55	52 x 1/6"	0,30
32	7			32				63	58 x 1/6"	0,41
40	7			38				63	65 x 1/6"	0,60
50	7			50				73	78 x 1/6"	1,05
65	8			66				85	95 x 1/6"	

Check valve C - C
Tellerrückschlagventil C - C

5089B

Dimensions • Abmessungen

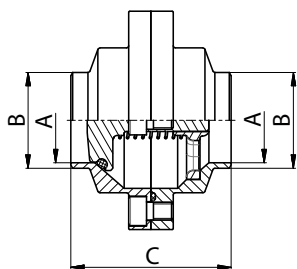


DN	A	B	C	D	E	F	R	L	Rd x s	kg
25				26	50,5			42		
32				32	50,5			50		
40				38	50,5			50		
50				50	64			60		
65				66	91			70		

Check valve S - S
Tellerrückschlagventil S - S

5080D

Dimensions • Abmessungen

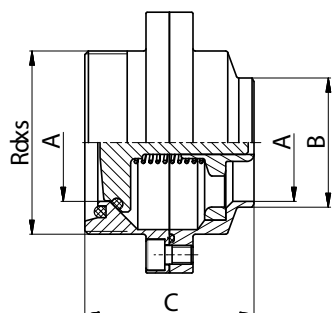


DN	A	B	C	D	E	F	R	L	Rd x s	kg
25	26	31	64	87						0,95
32	32	37	66	93						1,35
40	38	43	72	98						1,55
50	50	55	72	111						1,65
65	66	72	76	128						2,2
80	81	87	96	144						3,7
100	100	106	104	130						4,78

Check valve G - S
Tellerrückschlagventil G - S

5081D

Dimensions • Abmessungen



DN	A	B	C	D	E	F	R	L	Rd x s	kg
									DIN 405	
25	26	31	64	87					52x1/6"	1
32	32	37	66	93					58x1/6"	1,15
40	38	43	72	98					65x1/6"	1,36
50	50	55	72	111					78x1/6"	1,75
65	66	72	76	128					95x1/6"	2,38
80	81	87	96	144					110x1/4"	3,85
100	100	106	104	130					130x1/4"	4,88

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

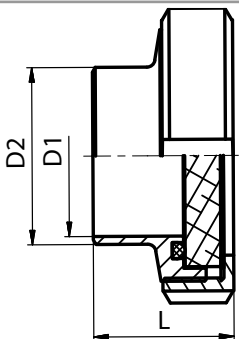
Check valve S - G Tellerrückschlagventil S - G	5082D	Dimensions • Abmessungen									
		DN	A	C	D	E	F	R	L	Rd x s	kg
		DIN 405									
		25	26	31	64	87				52x1/6"	1
		32	32	37	66	93				58x1/6"	1,15
		40	38	43	72	98				65x1/6"	1,36
		50	50	55	72	111				78x1/6"	1,75
		65	66	72	76	128				95x1/6"	2,38
		80	81	87	96	144				110x1/4"	3,85
		100	100	106	104	130				130x1/4"	4,88

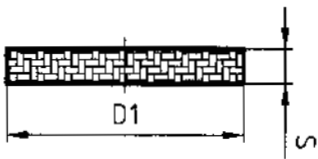
Check valve G - G Tellerrückschlagventil G - G	5083D	Dimensions • Abmessungen									
		DN	A	C	D	E	F	R	L	Rd x s	kg
		DIN 405									
		25	26	64	87					52x1/6"	1,08
		32	32	66	93					58x1/6"	1,25
		40	38	72	98					65x1/6"	1,44
		50	50	72	111					78x1/6"	1,88
		65	66	76	128					95x1/6"	2,52
		80	81	96	144					110x1/4"	3,98
		100	100	104	130					130x1/4"	4,98

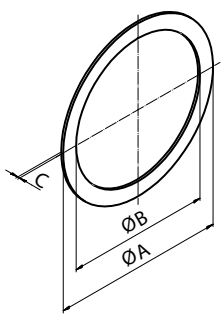
Check valve G - K/M Tellerrückschlagventil G - K/M	5084D	Dimensions • Abmessungen										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
		DIN 405										
		25	26		84	87					52x1/6"	1,28
		32	32		89	93					58x1/6"	1,73
		40	38		96	98					65x1/6"	2,06
		50	50		98	111					78x1/6"	0,14
		65	66		109	128					95x1/6"	3,5
		80	81		135	143					110x1/4"	4,84
		100	100		146	164					130x1/4"	

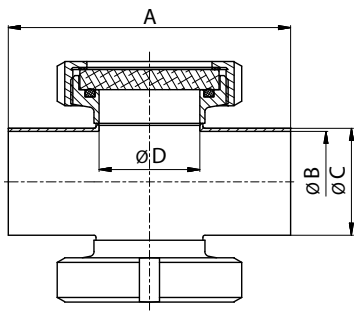
Check valve C - C Tellerrückschlagventil C - C	5089D	Dimensions • Abmessungen									
		DN	A	B	C	D	E	F	R	L	Rd x s
		DIN 405									
		25	26	50,5	85,4	87					1,08
		32	32	50,5	87,5	93					1,16
		40	38	50,5	93,5	98					1,33
		50	50	64	93,5	111					1,76
		65	66	91	97,5	128					2,51
		80	81	106	148	144					4,01
		100	100	119	156	130					5,02

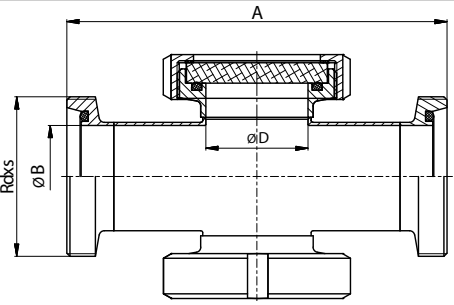
SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Sight glass Schauglas	51510	Dimensions • Abmessungen										
		DN	D1	D2	C	D	E	F	R	L	Rd x s	kg
		20	20	25						30		0,300
		25	26	31						36		0,350
		32	32	37						39		0,420
		40	38	43						42		0,530
		50	50	55						45		0,726
		65	66	72						50		1,110
		80	81	87						55		1,590
		100	100	106						65		2,380
		125	125	132						55		3,570
		150	150	157						60		5,400
		Gasket / Dichtung:		NBR / POM PTFE / PTFE								

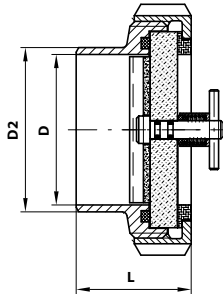
Bullet-proof glass Panzerglas	51520	Dimensions • Abmessungen			
		DN	D1	S	kg
		20	36	5	0,012
		25	44	5	0,018
		32	50	6,5	0,04
		40	56	6,5	0,045
		50	69	11	0,09
		65	86	11	0,13
		80	99	11	0,2
		100	119	15	0,3
		125	145	15	0,55
		150	180	15	0,83

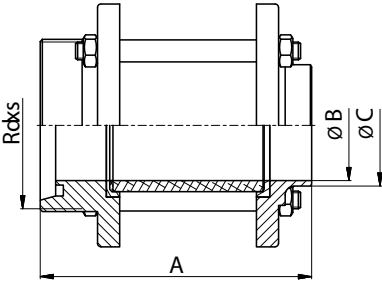
Gasket Dichtung	51513	Dimensions • Abmessungen			
		DN	A	B	C
		20	40,5	31	1
		25	48,5	36	1
		32	53,5	42	1
		40	61,5	49	1
		50	74,5	62	1
		65	91	80	1
		80	104,6	94	1
		100	124,8	115	1
		125	154,7	138	1
		150	184,6	164	1

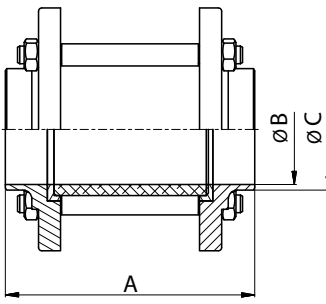
Sight glass S - S Schauglas S - S	51530	Dimensions • Abmessungen										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
		25	100	26	29	26						0,65
		32	110	32	35	32						0,78
		40	120	38	41	38						1
		50	140	50	53	50						1,4
		65	160	66	70	66						2,45
		80	180	81	85	66						3,4
		100	200	100	104	66						5,1
		125	250	125	129	80						8,6
		150	280	150	154	80						12,8
			Gasket / Dichtung:		NBR / POM PTFE / PTFE							

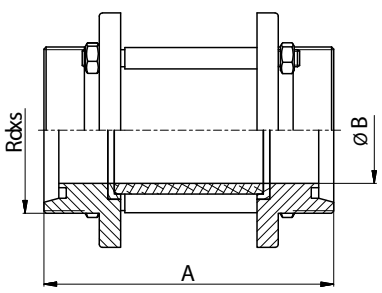
Sight glass G - G Schauglas G - G	51531	Dimensions • Abmessungen											
		DN	A	B	C	D	E	F	R	L	Rd x s	kg	
											DIN 405		
		25	144	26		26						52x1/6"	0,65
		32	154	32		32						58x1/6"	0,78
		40	164	38		38						65x1/6"	1
		50	186	50		50						78x1/6"	1,4
		65	210	66		66						95x1/6"	2,45
		80	230	81		66						110x1/4"	3,4
		100	260	100		66						130x1/4"	5,1
		125	321	125		80						160x1/4"	8,6
		150	360	150		80						190x1/4"	12,8
		Gasket / Dichtung:		NBR / POM PTFE / PTFE									

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

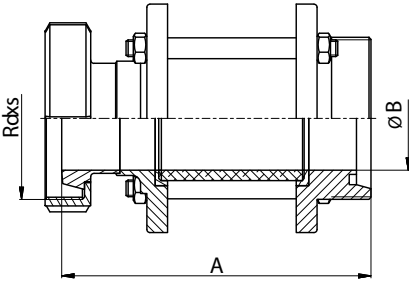
Sight glass with cleaner blade Schauglas mit wischeranlage	51540	Dimensions • Abmessungen										
		DN	D1	D2	C	D	E	F	R	L	Rd x s	kg
		65	66	72						50		1,110
		80	81	87						55		1,590
		100	100	106						65		2,380

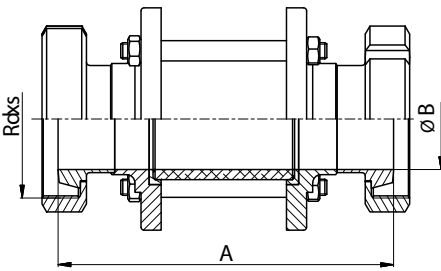
Inline sight glass G - S Schaulaterne G - S	51550	Dimensions • Abmessungen										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
										DIN 405		
		25	115	26	31						52x1/6"	1,18
		32	116	32	37						58x1/6"	1,28
		40	124	38	43						65x1/6"	1,48
		50	124	50	55						78x1/6"	1,8
		65	141	66	72						95x1/6"	2,26
		80	156	81	87						110x1/4"	3,68
		100	190	100	106						130x1/4"	4,8
		125	247	125	138						160x1/4"	5,4
		150	251	150	162						190x1/4"	7

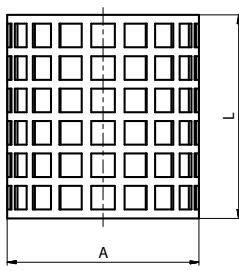
Inline sight glass S - S Schaulaterne S - S	51560	Dimensions • Abmessungen										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
		25	102	26	31							1
		32	104	32	37							1,12
		40	112	38	43							1,24
		50	112	50	55							1,46
		65	127	66	72							1,84
		80	135	81	87							2,94
		100	169	100	106							3,88
		125	229	125	138							4,2
		150	229	150	162							5,8

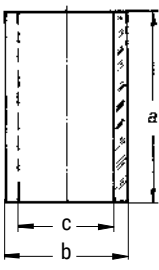
Inline sight glass G - G Schaulaterne G - G	51570	Dimensions • Abmessungen										
		DN	A	B	C	D	F	R	L	Rd x s	kg	
						DIN 405						
		25	144		26	52x1/6"						1,25
		32	144		32	58x1/6"						1,38
		40	144		38	65x1/6"						1,7
		50	164		50	78x1/6"						1,9
		65	172		66	95x1/6"						2,25
		80	205		81	100x1/4"						3,1
		100	209		100	130x1/4"						3,75
		125	265		125	160x1/4"						6,4
		150	273		150	190x1/4"						7,8

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

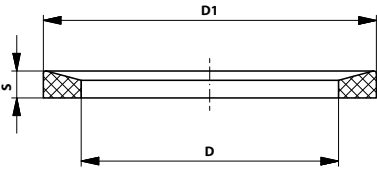
Inline sight glass K/M - G Schaulaterne K/M - G	51580	Dimensions • Abmessungen											
		DN	A	B	C	D	E	F	R	L	Rd x s	kg	
		DIN 405											
		25	134	26								52x1/6"	0,62
		32	138	32								58x1/6"	0,72
		40	147	38								65x1/6"	0,95
		50	149	50								78x1/6"	1,5
		65	170	66								95x1/6"	2,07
		80	190	81								110x1/4"	2,6
		100	231	100								130x1/4"	3,6
		125	277	125								160x1/4"	7,85
		150	284	150								190x1/4"	9,68

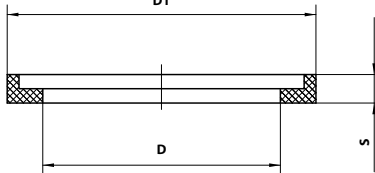
Inline sight glass K/M - K/M Schaulaterne K/M - K/M	51590	Dimensions • Abmessungen											
		DN	A	B	C	D	E	F	R	L	Rd x s	kg	
		DIN 405											
		25	148		26							52x1/6"	0,64
		32	156		32							58x1/6"	0,74
		40	166		38							65x1/6"	0,97
		50	190		50							78x1/6"	1,87
		65	198		66							95x1/6"	2,62
		80	237		81							100x1/4"	3,63
		100	253		100							130x1/4"	4,51
		125	289		125							160x1/4"	9,3
		150	295		150							190x1/4"	11,56

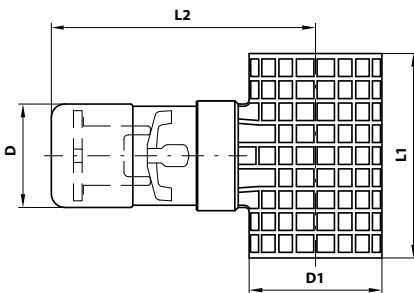
Protection screen Schutzgitter für schaulaterne	51701	Dimensions • Abmessungen										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
		25	36							58		0,02
		32	44							58		0,04
		40	53							58		0,04
		50	63							58		0,04
		65	79							68		0,08
		80	95							68		0,1
		100	115							94		0,12
		125	145							135		1,34
		150	168							135		1,8

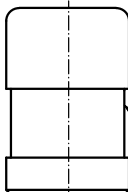
Glass cylinder Glasyylinder für schaulaterne	51710	Dimensions • Abmessungen										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
		25	70	32	26							0,05
		32	70	40	32							0,07
		40	70	50	40							0,12
		50	70	60	50							0,19
		65	85	75	65							0,24
		80	85	90	80							0,35
		100	115	110	100							0,45
		125	160	140	126							0,90
		150	160	165	150							1,35

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

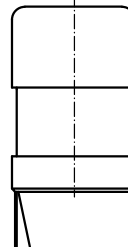
Gasket Dichtung	51720	Dimensions • Abmessungen			
		DN	D	D1	S
		25	27	40	5
		32	33	48	5
		40	39	54,5	5,5
		50	51	66	5,5
		65	67	84	5,5
		80	81,6	100	5,8
	100	100	115	5,8	

Gasket type „L“ Dichtung typ „L“	51721	Dimensions • Abmessungen			
		DN	D	D1	S
		25	27	37	6
		32	34	45	6
		40	40	55	6
		50	51	65	6
		65	66,5	80	6
		80	81,5	96	8
		100	101,5	116,5	8
		125	127	147,5	8,5
		150	151	171,5	8,5

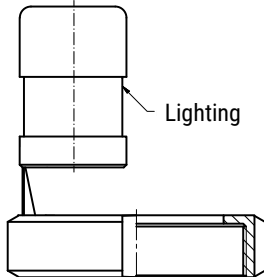
Lighting of inline sight glass Leuchte für Schauglas	51800	Dimensions • Abmessungen										
		DN	D	D1	C	D	E	F	L1	L2	Rd x s	kg
		25	44,5	36					73	102,5		0,300
		32	44,5	44					73	106		0,390
		40	44,5	53					73	111,5		0,400
		50	44,5	63					93	116,5		0,420
		65	44,5	79					93	122		0,440
		80	44,5	95					111	136		0,460
		100	44,5	115					111	141		0,490
	125	44,5	145					152	169			
	150	44,5	168					152	169			

Lighting of sight glass Leuchte für Schauglas	51850	Dimensions Abmessungen	
		DN	
		20	
		25	
		32	
		40	
		50	
		65	

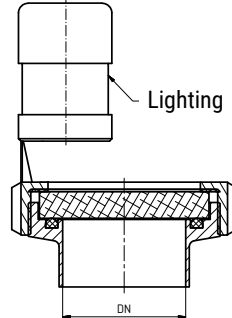
Halogen: 24V, 20W, paticeG4
LED: 12V, 3W patice MR11 (GU4)

Lighting of sight glass with holder Leuchte für Schauglas Mit Halter	51850-D	Dimensions Abmessungen	
		DN	
		20	
		25	
		32	
		40	
		50	
		65	

Halogen: 24V, 20W, paticeG4
LED: 12V, 3W patice MR11 (GU4)

Lighting of sight glass with nut Leuchte für Schauglas Mit Mutter	51851	Размеры Rozměry	
		DN	
		20	
		25	
		32	
		40	
		50	
		65	

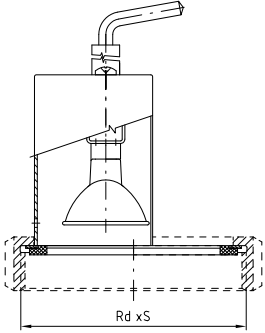
Halogen: 24V, 20W, paticeG4
LED: 12V, 3W patice MR11 (GU4)

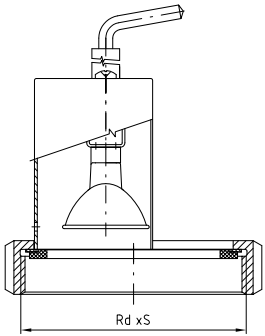
Sight glass with Lighting Schauglas Mit Leuchte	51852	Размеры Rozměry	
		DN	
		20	
		25	
		32	
		40	
		50	
		65	

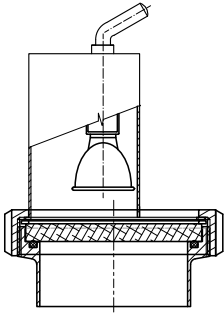
Halogen: 24V, 20W, paticeG4
LED: 12V, 3W patice MR11 (GU4)

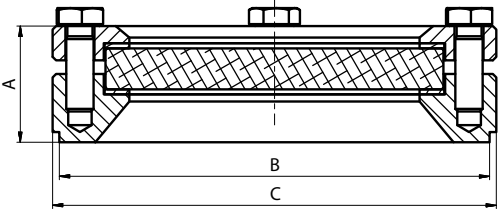
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Light of sight glass Leuchte für Schauglas	51860	Dimensions • Abmessungen																				
		DN	A	B	C	D	E	F	R	L	Rd x s	kg										
											thread DIN 405											
											100										130 x 1/4"	
											125										160 x 1/4"	
											150										190 x 1/4"	
											U = 24 V DC											

Lighting of sight glass with nut Schauglaslampe	51861	Dimensions • Abmessungen																				
		DN	A	B	C	D	E	F	R	L	Rd x s	kg										
											thread DIN 405											
											80										110 x 1/4"	
											U = 24 V DC											

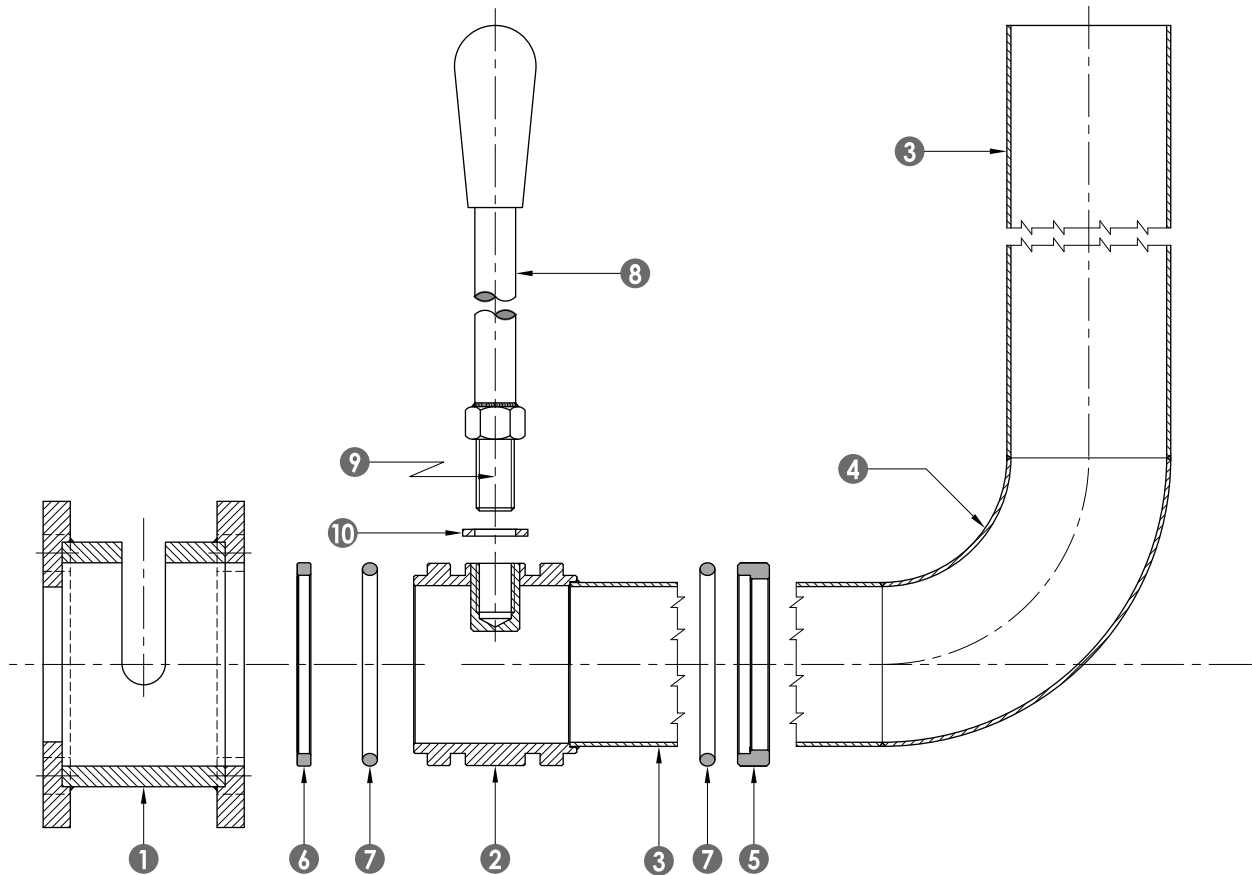
Sight glass with Lighting Schauglas Mit Leuchte	51862	Dimensions • Abmessungen																				
		DN	A	B	C	D	E	F	R	L	Rd x s	kg										
											thread DIN 405											
											080										110x1/4"	
											100										130x1/4"	
											125										160x1/4"	
											150										190x1/4"	
U = 24 V DC																						

Flanged sight glass Flansch-Schauglas	51920	Dimensions • Abmessungen																				
		DN	A	B	C	D	E	F	R	L	Rd x s	kg										
																						
											80	34	126	130								1,5

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Decanter - components

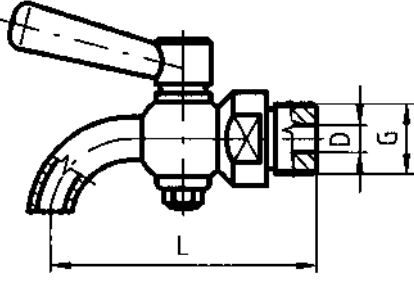
Dekantierventil - komponenten

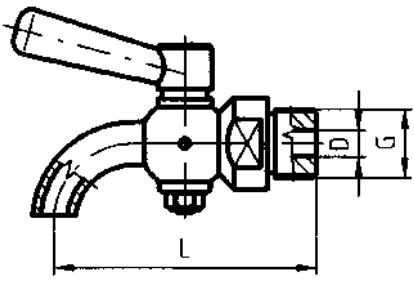


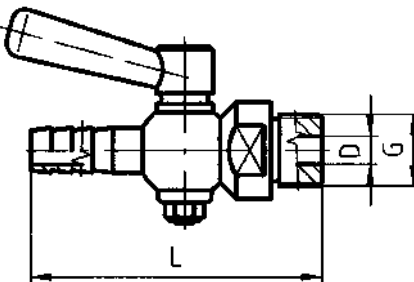
Pos.	Name	Bezeichnung	Material Werkstoff
1.	External body	Außerer Körper	AISI 304/316
2.	Internal body	Innerer Körper	AISI 304/316
3.	Pipe	Rohr	AISI 304/316
4.	90° Elbow	90° Bogen	AISI 304/316
5.	Gasket	Dichtung	PTFE
6.	Gasket	Dichtung	PTFE
7.	Internal body OR	O-Ring	NBR
8.	180° Handle	Griff 180°	AISI 304
9.	Threaded end	Gewindeende	AISI 304
10.	Washer	Unterlegscheibe	AISI 304

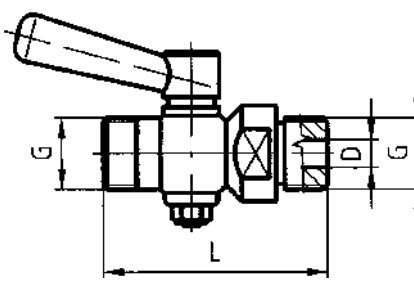
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Drain cock Probierventil	53010	Dimensions • Abmessungen										
		DN	D	G	C		D	F	R	L	Rd x s	kg
		4	4	1/4"								0,290
		6	6	3/8"								0,300
		8	8	1/2"								0,320
		12	12	3/4"								0,420

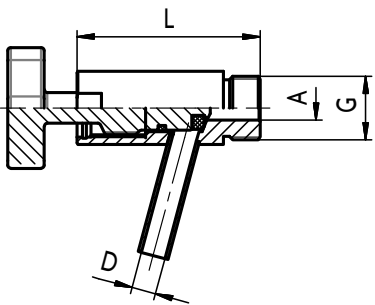
Drain cock Probierventil	53020	Dimensions • Abmessungen										
		DN	D	G	C		D	F	R	L	Rd x s	kg
		4	4	1/4"								0,290
		6	6	3/8"								0,300
		8	8	1/2"								0,320
		12	12	3/4"								0,420

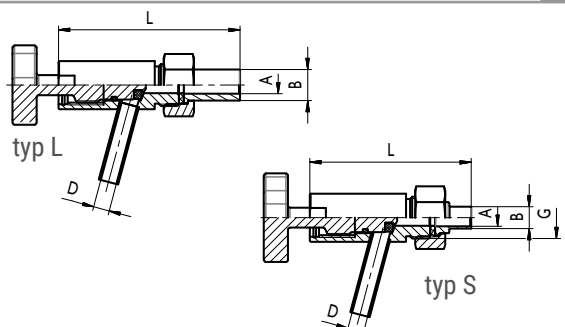
Drain cock Probierventil	53030	Dimensions • Abmessungen										
		DN	D	G	A	B	C	F	R	L	Rd x s	kg
		4	4	1/4"						64		0,300
		6	6	3/8"						73		0,325
		8	8	1/2"						85		0,325
		12	12	3/4"						105		0,490

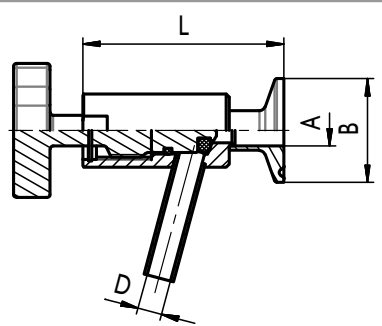
Drain cock Probierventil	53040	Dimensions • Abmessungen										
		DN	D	G	A	B	C	F	R	L	Rd x s	kg
		4	4	1/4"						53		0,310
		6	6	3/8"						61		0,332
		8	8	1/2"						75		0,332
		12	12	3/4"						86		0,502

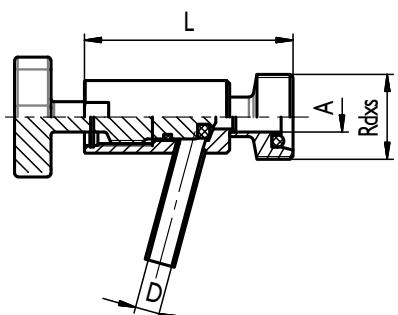
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Sampling cock Probierventil	5305A	Dimensions • Abmessungen								
		DN	A	B	C	D	G	L	Rd x s	kg
		1/2"	8			8	1/2"	60		0,2
		3/8"	8			8	3/8"	60		0,2

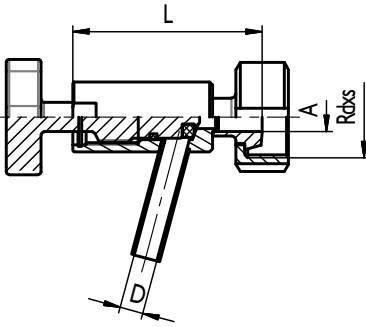
Sampling cock Probierventil	5305B-L	Dimensions • Abmessungen								
	5305B-S	DN	A	B	C	D	G	L	Rd x s	kg
		L - long connection, lange Verbindung								
		1/2"	8	15,5		8	1/2"	90,5		0,2
		S - short connection, kurz Verbindung								
		1/2"	8	11		8	1/2"	80,5		0,2

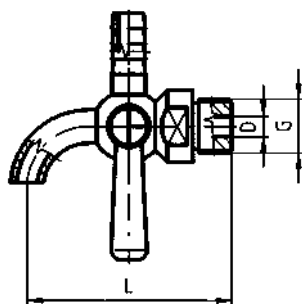
Sampling cock Clamp Probierventil Clamp	5305C	Dimensions • Abmessungen								
		DN	A	B	C	D	R	L	Rd x s	kg
		10	10	34		8		66		0,2
		15	16	34		8		66		0,2
		20	20	34		8		66		0,2
		25	26	50,5		8		69,5		0,2

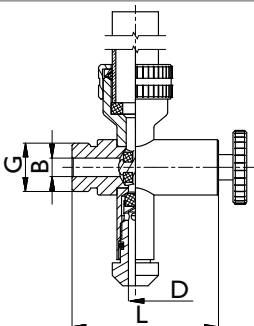
Sampling cock G DIN Probierventil G DIN	5305D	Dimensions • Abmessungen								
		DN	A	B	C	D	R	L	Rd x s	kg
		DIN 405								
		10	10			8		69	28x1/8	0,2
		15	16			8		69	34x1/8	0,2
		20	20			8		72	44x1/6	0,2
		25	26			8		77	52x1/6	0,2

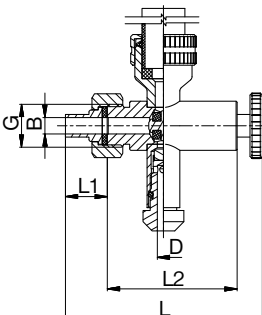
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Sampling cock K/M DIN Probierventil K/M DIN	5305E	Dimensions • Abmessungen								
		DN	A	B	C	D	R	L	Rd x s	kg
								DIN 405		
		10	10			8		65	28x1/8	0,2
		15	16			8		65	34x1/8	0,2
		20	20			8		66	44x1/6	0,2
		25	26			8		70	52x1/6	0,2

Drain cock Probierventil	53080	Dimensions • Abmessungen								
		DN	D	G	A	B	R	L	Rd x s	kg
		8	8	1/2"				80		0,37
		12	12	3/4"				133		

Bottom level indicator cock Untere Standanzeige	5309A	Dimensions • Abmessungen								
	5 bar	DN	B	D	G	L	R	L	Rd x s	kg
		1/2"	8	6	1/2"	63,5				

Bottom level indicator cock - K/M Untere Standanzeige - K/M	5309B	Dimensions • Abmessungen								
	5 bar	DN	B	D	G	L1	L2	A	Rd x s	kg
		8	8	6	1/2"	20,5	63,5			

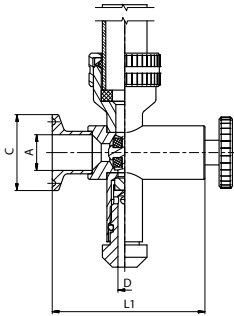
SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Bottom level indicator cock - Clamp
Untere Standanzeige - Clamp

5309C

Dimensions • Abmessungen

5 bar



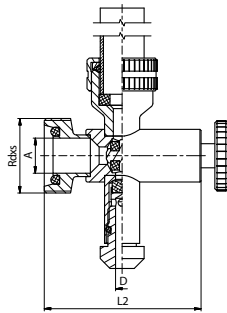
DN	A	C	D	L1	E	F	R	L	Rd x s	kg
10	10	34	6	68,5						
15	16	34	6	68,5						
20	20	34	6	38,5						
25	26	50,5	6	76						

Bottom level indicator cock - G DIN
Untere Standanzeige - G DIN

5309D

Dimensions • Abmessungen

5 bar



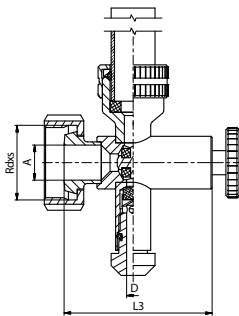
DN	A	D	L2	B	C	F	R	L	Rd x s	kg
									DIN 405	
10	10	6	71,5						28x1/8"	
15	16	6	71,5						34x1/8"	
20	20	6	74,5						44x1/6"	
25	26	6	85,5						52x1/6"	

Bottom level indicator cock - K/M
Untere Standanzeige - K/M

5309E

Dimensions • Abmessungen

5 bar



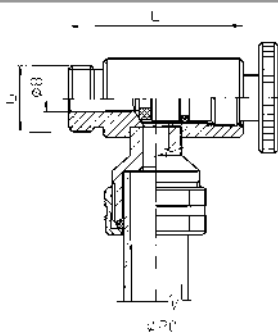
DN	A	D	L3	C	E	F	R	L	Rd x s	kg
									DIN 405	
10	10	6	67,5						28x1/8"	
15	16	6	67,5						34x1/8"	
20	20	6	68,5						44x1/6"	
25	26	6	81,5						52x1/6"	

Top level indicator
Obere Standanzeige

5310A

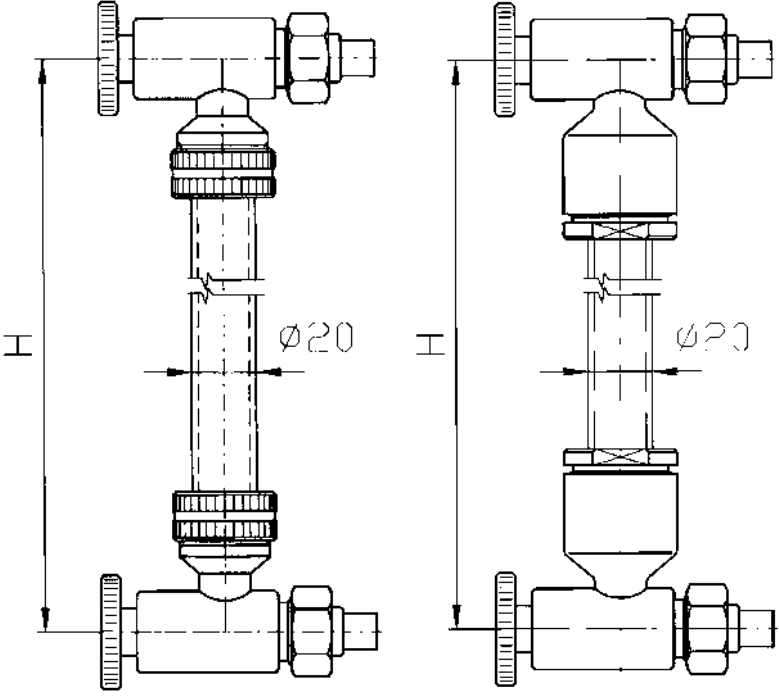
Dimensions • Abmessungen

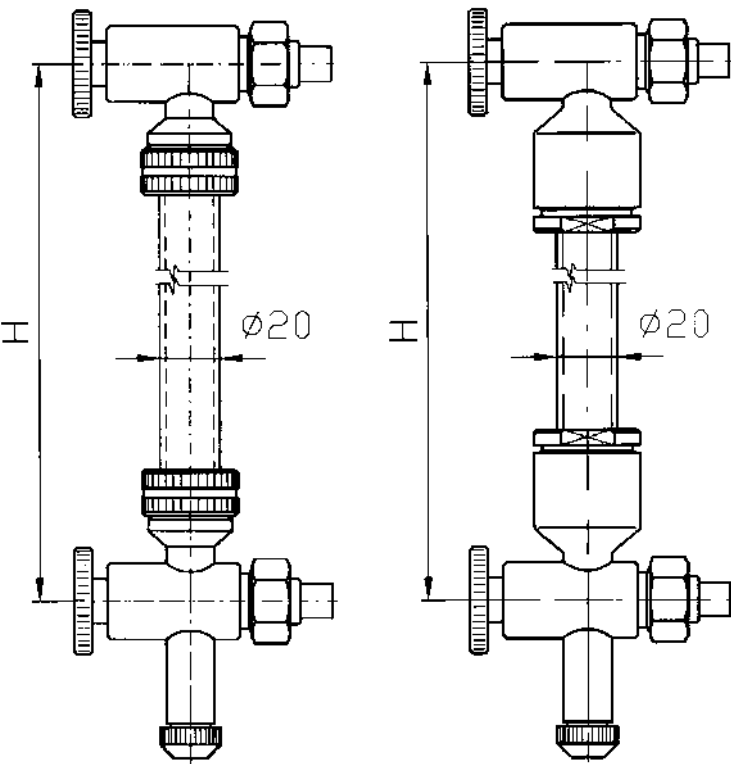
5 bar



DN	D	G	A	B	C	F	R	L	Rd x s	kg
1/2"	8	1/2"						63,5		

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Complete level indicator K/M Standanzeiger K/M	5311B	Dimensions • Abmessungen					
		DN	H	B	C	Rd x s	kg
 <p style="text-align: center;">5 bar 10 bar</p>		1,0 m					
		1,5 m					
		2,0 m					
		2,5 m					
		3,0 m					
<p>Level indicator / Standanzeiger 5 bar Cover length = H - 62mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 62mm Länge des Glases = H - 56mm</p> <p>Level indicator / Standanzeiger 10 bar Cover length = H - 82mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 82mm Länge des Glases = H - 56mm</p> <p style="text-align: center;">other lengths on request andere längen auf nachfrage</p>							

Complete level indicator cock K/M Standanzeiger mit probierventil K/M	5312B	Dimensions • Abmessungen					
		DN	H	B	C	Rd x s	kg
 <p style="text-align: center;">5 bar 10 bar</p>		1,0 m					
		1,5 m					
		2,0 m					
		2,5 m					
		3,0 m					
<p>Level indicator / Standanzeiger 5 bar Cover length = H - 62mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 62mm Länge des Glases = H - 56mm</p> <p>Level indicator / Standanzeiger 10 bar Cover length = H - 82mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 82mm Länge des Glases = H - 56mm</p> <p style="text-align: center;">other lengths on request andere längen auf nachfrage</p>							

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Complete level indicator C - C Standanzeiger C - C	5311C	Dimensions • Abmessungen					
		DN	H	B	C	Rd x s	kg
<p style="text-align: center;">5 bar 10 bar</p>		1,0 m					
		1,5 m					
		2,0 m					
		2,5 m					
		3,0 m					
<p>Level indicator / Standanzeiger 5 bar Cover length = H - 62mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 62mm Länge des Glases = H - 56mm</p> <p>Level indicator / Standanzeiger 10 bar Cover length = H - 82mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 82mm Länge des Glases = H - 56mm</p> <p style="text-align: center;">other lengths on request andere längen auf nachfrage</p>							

Complete level indicator cock C - C Standanzeiger mit probierventil C - C	5312C	Dimensions • Abmessungen					
		DN	H	B	C	Rd x s	kg
<p style="text-align: center;">5 bar 10 bar</p>		1,0 m					
		1,5 m					
		2,0 m					
		2,5 m					
		3,0 m					
<p>Level indicator / Standanzeiger 5 bar Cover length = H - 62mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 62mm Länge des Glases = H - 56mm</p> <p>Level indicator / Standanzeiger 10 bar Cover length = H - 82mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 82mm Länge des Glases = H - 56mm</p> <p style="text-align: center;">other lengths on request andere längen auf nachfrage</p>							

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Complete level indicator G - G DIN Standanzeiger G - G DIN	5311D	Dimensions • Abmessungen					
		DN	H	B	C	Rd x s	kg
<p style="text-align: center;">5 bar 10 bar</p>		1,0 m					
		1,5 m					
		2,0 m					
		2,5 m					
		3,0 m					
<p>Level indicator / Standanzeiger 5 bar Cover length = H - 62mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 62mm Länge des Glases = H - 56mm</p> <p>Level indicator / Standanzeiger 10 bar Cover length = H - 82mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 82mm, Länge des Glases = H - 56mm</p> <p style="text-align: center;">other lengths on request andere längen auf nachfrage</p>							

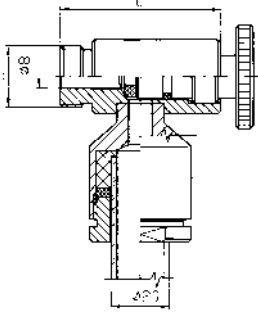
Complete level indicator cock G - G DIN Standanzeiger mit probierventil G - G DIN	5312D	Dimensions • Abmessungen					
		DN	H	B	C	Rd x s	kg
<p style="text-align: center;">5 bar 10 bar</p>		1,0 m					
		1,5 m					
		2,0 m					
		2,5 m					
		3,0 m					
<p>Level indicator / Standanzeiger 5 bar Cover length = H - 62mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 62mm Länge des Glases = H - 56mm</p> <p>Level indicator / Standanzeiger 10 bar Cover length = H - 82mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 82mm Länge des Glases = H - 56mm</p> <p style="text-align: center;">other lengths on request andere längen auf nachfrage</p>							

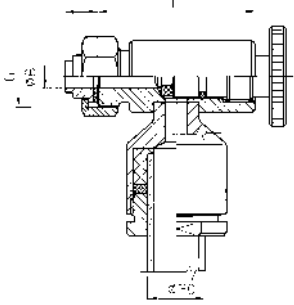
SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

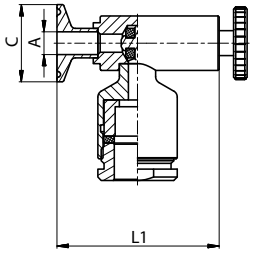
Complete level indicator K/M DIN Standanzeiger K/M DIN	5311E	Dimensions • Abmessungen					
		DN	H	B	C	Rd x s	kg
<p>5 bar 10 bar</p>		1,0 m					
		1,5 m					
		2,0 m					
		2,5 m					
		3,0 m					
<p>Level indicator / Standanzeiger 5 bar Cover length = H - 62mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 62mm Länge des Glases = H - 56mm</p> <p>Level indicator / Standanzeiger 10 bar Cover length = H - 82mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 82mm Länge des Glases = H - 56mm</p> <p>other lengths on request andere längen auf nachfrage</p>							

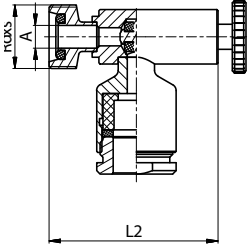
Complete level indicator cock K/M DIN Standanzeiger mit probierventil K/M DIN	5312E	Dimensions • Abmessungen					
		DN	H	B	C	Rd x s	kg
<p>5 bar 10 bar</p>		1,0 m					
		1,5 m					
		2,0 m					
		2,5 m					
		3,0 m					
<p>Level indicator / Standanzeiger 5 bar Cover length = H - 62mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 62mm Länge des Glases = H - 56mm</p> <p>Level indicator / Standanzeiger 10 bar Cover length = H - 82mm Length of glass = H - 56mm</p> <p>Länge der Abdeckung = H - 82mm Länge des Glases = H - 56mm</p> <p>other lengths on request andere längen auf nachfrage</p>							

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

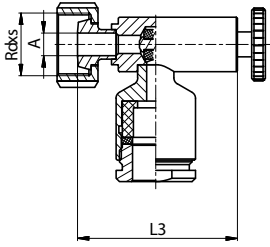
Top level indicator Obere Standanzeige	5313A	Dimensions • Abmessungen										
	10 bar	DN	D	G	A	B	C	F	R	L	Rd x s	kg
		8	8	1/2"						80		0,37
		12	12	3/4"						133		

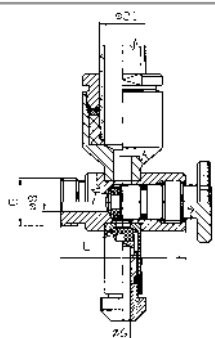
Top level indicator K/M Obere Standanzeige K/M	5313B	Dimensions • Abmessungen										
	10 bar	DN	B	D	G	L	L1	F	R	L	Rd x s	kg
		8		8	1/2"	63,5	11					

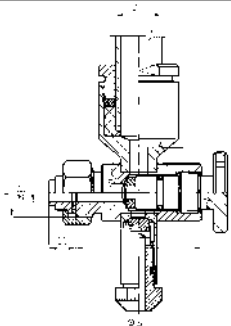
Top level indicator - Clamp Obere Standanzeige - Clamp	5313C	Dimensions • Abmessungen										
	10 bar	DN	A	C	D	L1	C	F	R	L	Rd x s	kg
		10	10	34	6	68,5						
		15	16	34	6	68,5						
		20	20	34	6	38,5						
		25	26	50,5	6	76						

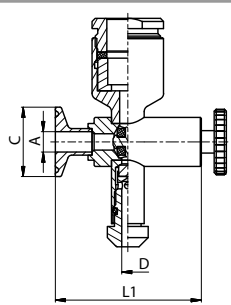
Top level indicator G DIN Obere Standanzeige G DIN	5313D	Dimensions • Abmessungen										
	10 bar	DN	A	D	L2	L	L1	F	R	L	Rd x s	kg
		10	10	6	71,5						DIN 405	
		15	16	6	71,5						28x1/8"	
		20	20	6	74,5						34x1/8"	
		25	26	6	85,5						44x1/6"	
											52x1/6"	

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

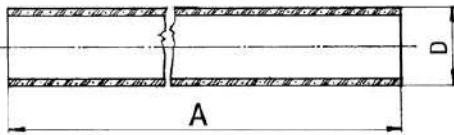
Top level indicator K/M DIN Obere Standanzeige K/M DIN	5313E	Dimensions • Abmessungen										
	10 bar	DN	A	D	L3	B	C	L	R	A	Rd x s	kg
												
		10	10	6	67,5						DIN 405	
		15	16	6	67,5						28x1/8"	
		20	20	6	68,5						34x1/8"	
		25	26	6	81,5						44x1/6"	

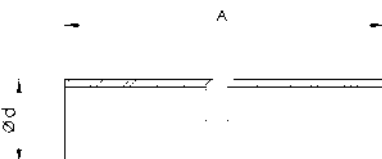
Bottom level indicator cock Untere Standanzeige	5314A	Dimensions • Abmessungen										
	10 bar	DN	d	D	G	L	L1	L2	R	A	Rd x s	kg
		1/2"	6	8	1/2"	63,5						
		3/4"		8	3/4"	73						

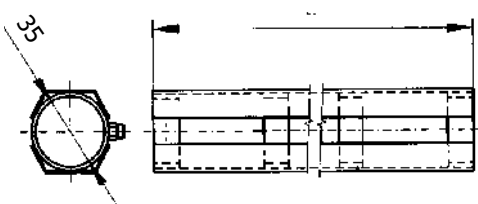
Bottom level indicator cock - K/M Untere Standanzeige - K/M	5314B	Dimensions • Abmessungen										
	10 bar	DN	d	D	G	L	L1	F	R	L	Rd x s	kg
		8	6	8	1/2"	63,5	11					

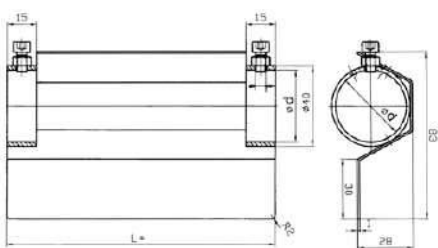
Bottom level indicator cock - Clamp Untere Standanzeige - Clamp	5314C	Dimensions • Abmessungen										
	10 bar	DN	A	C	D	L1	E	F	R	L	Rd x s	kg
		10	10	34	6	68,5						
		15	16	34	6	68,5						
		20	20	34	6	38,5						
		25	26	50,5	6	76						

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

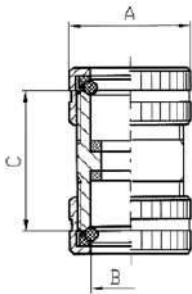
Glass tube for level indicator Glasrohr für Standanzeig	5315A	Dimensions • Abmessungen									
		DN	A	L	L1	L2	F	R	L	Rd x s	kg
		20	max. 3000								
	other lengths on request andere längen auf nachfrage										

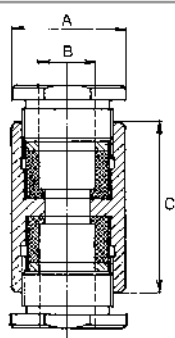
Plastic tube for level indicator Kunststoffrohr für Standanzeiger	5315B	Dimensions • Abmessungen									
		DN	A	L	L1	L2	F	R	L	Rd x s	kg
 <p>for max. tem. 65° C</p>		20	max. 5000								
	other lengths on request andere längen auf nachfrage										

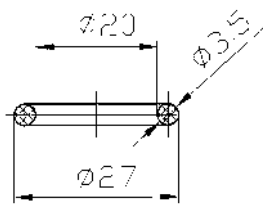
Protective sleeve for level indicator Schutz für Standanzeiger	5316A	Dimensions • Abmessungen									
		DN	L	A	L1	L2	F	R	L	Rd x s	kg
			max. 3000								
	Calculation of cover length (5 bar) L = H - 62mm Berechnung der Deckellänge (10 bar) L = H - 82mm										
	Distance between valves of the complete level gauge (H = see 5311B ... 5312E) Abstand zwischen den Ventilen der gesamten Füllstandsanzeig										
	other lengths on request andere längen auf nachfrage										

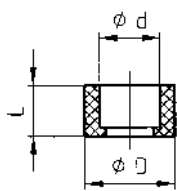
Protective sleeve for level indicator Schutz für Standanzeiger	5316B	Dimensions • Abmessungen									
		DN	L	A	L1	L2	F	R	L	Rd x s	kg
			max. 3000								
	Calculation of cover length (5 bar) L = H - 62mm Berechnung der Deckellänge (10 bar) L = H - 82mm										
	Distance between valves of the complete level gauge (H = see 5311B ... 5312E) Abstand zwischen den Ventilen der gesamten Füllstandsanzeig										
	other lengths on request andere längen auf nachfrage										

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Intermediate piece Zwischenstück Standanzeiger	5317A	Dimensions • Abmessungen											
	5 bar	DN	A	B	C	D	L	F	R	L	Rd x s	kg	
		32	20,5	37	12								

Intermediate piece Zwischenstück Standanzeiger	5317B	Dimensions • Abmessungen											
	10 bar	DN	A	B	C	D	L	F	R	L	Rd x s	kg	
		35	20,5	61	12								

Gasket for level indicator Dichtung für Standanzeiger	5317A-gasket	Dimensions • Abmessungen											
		DN	D	G	L	L1	L2	F	R	L	Rd x s	kg	
													
		Material: NBR / EPDM / Silikon											

Gasket for level indicator Dichtung für Standanzeiger	5317B-gasket	Dimensions • Abmessungen											
		DN	D	d	L	L1	L2	F	R	L	Rd x s	kg	
		30	20	17								0,01	

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Spray ball 360°
Sprühkopf 360°

53180

Dimensions • Abmessungen

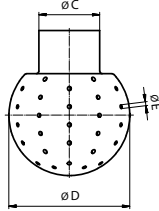
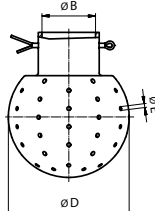
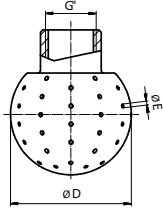
Pressure 1 bar

Pressure 2 bar

5318 A

5318 B

5318 C



Muff
Muffe

Clip
Splint

For welding
Für Aufschweißen

DN	D	B	C	G	E	Flow rate	Action Radius	Flow rate	Action Radius
	mm	mm	mm	"	mm	m³/hod.	m	m³/hod.	m
28	28	12,2	12	1/4"-1/2"	1,3	1,86	0,62	2,64	1,23
40	40	22,2	22	1/2"-3/4"	1,3	5,13	2,84	7,26	5,68
50	50	22,2	22	1/2"-3/4"	1,6	5,59	1,53	7,91	3,07
50	50	28,2	28	1/2"-3/4"	1,6	7,26	2,59	10,26	5,18
65	65	28,2	28	3/4"-1"	1,6	8,77	2,04	12,4	4,09
65	65	34,3	34	3/4"-1"	1,6	7,9	1,66	11,18	3,33
65	65	40,5	40	3/4"-1"	1,6	10,54	3,64	14,91	7,19
90	90	40,5	40	1 1/4"	2,5	31,62	2,08	44,72	4,17
90	90	52,3	52	1 1/4"	2,5	31,62	2,08	44,72	4,17

Spray ball 180°
Sprühkopf 180°

53200

Dimensions • Abmessungen

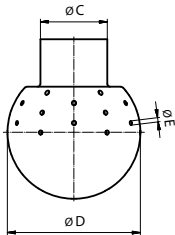
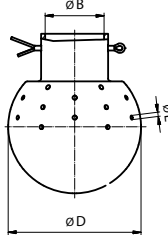
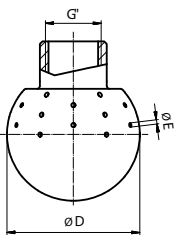
Pressure 1 bar

Pressure 2 bar

5320 A

5320 B

5320 C



Muff
Muffe

Clip
Splint

For welding
Für Aufschweißen

DN	D	B	C	G	E	Flow rate	Action Radius	Flow rate	Action Radius
	mm	mm	mm	"	mm	m³/hod.	m	m³/hod.	m
28	28	12,2	12	1/4"-1/2"	1,3	1,21	1	1,71	2,01
40	40	22,2	22	1/2"-3/4"	1,3	3,03	3,88	4,28	7,75
50	50	22,2	22	1/2"-3/4"	1,6	3,47	2,12	4,91	4,64
50	50	28,2	28	1/2"-3/4"	1,6	4,71	4,28	6,67	8,55
65	65	28,2	28	3/4"-1"	1,6	5,35	2,99	7,56	5,98
65	65	34,3	34	3/4"-1"	1,6	6,46	5,37	5,98	3,74
65	65	40,5	40	3/4"-1"	1,6	5,87	4,44	8,31	8,88
90	90	40,5	40	1 1/4"	2,5	12,91	1,38	18,26	2,75

Spray ball 180°
Sprühkopf 180°

53210

Dimensions • Abmessungen

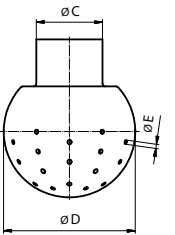
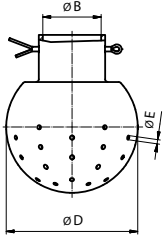
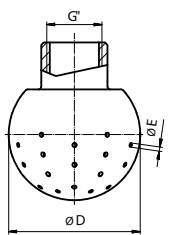
Pressure 1 bar

Pressure 2 bar

5321 A

5321 B

5321 C



Muff
Muffe

Clip
Splint

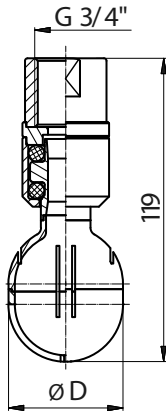
For welding
Für Aufschweißen

DN	D	B	C	G	E	Flow rate	Action Radius	Flow rate	Action Radius
	mm	mm	mm	"	mm	m³/hour	m	m³/hod.	m
28	28	12,2	12	1/4"-1/2"	1,3	1,21	1	1,71	2,01
40	40	22,2	22	1/2"-3/4"	1,3	3,03	3,88	4,28	7,75
50	50	22,2	22	1/2"-3/4"	1,6	3,47	2,12	4,91	4,64
50	50	28,2	28	1/2"-3/4"	1,6	4,71	4,28	6,67	8,55
65	65	28,2	28	3/4"-1"	1,6	5,35	2,99	7,56	5,98
65	65	34,3	34	3/4"-1"	1,6	6,46	5,37	5,98	3,74
65	65	40,5	40	3/4"-1"	1,6	5,87	4,44	8,31	8,88
90	90	40,5	40	1 1/4"	2,5	12,91	1,38	18,26	2,75

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Rotary cleaning ball two - bearings 360°
thread 3/4"
Sprühkopf 360° Gewinde 3/4"

5322A



**Rotary Cleaning ball, Rotations Sprühkopf
Sani Midget**

Material, Werkstoff

Body, Gehäuse: AISI 316L (1.4404)
Marbles, kugeln: AISI 316L (1.4404) / PTFE
Other, sonstiges: AISI 316 L

Pressure, Druck

Working presure, Arbeitsdruck 1 – 3 bar
Recommended presure, Empfohlener Druck 2 bar

Temperature, Temperatur

Max. operating temperature, Max. Arbeitstemperatur 230° C
Max. temperature precincts, Max. Umgebungs-Temperatur 140° C

Wettability surface, Benetzungsradius Max 3 m

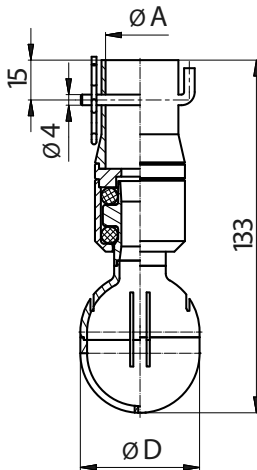
Degree of purification, Reinigungsradius Max 1,4 m

Connection, Verbindung

- 1.) Thread, Gewinde G 3/4
- 2.) Cotter key, Klammer
- 3.) For welding Auf Rohr aufgeschweißt

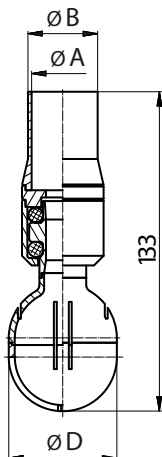
Rotary cleaning ball two - bearings 360°
cotter key
Sprühkopf 360° klammer

5322B

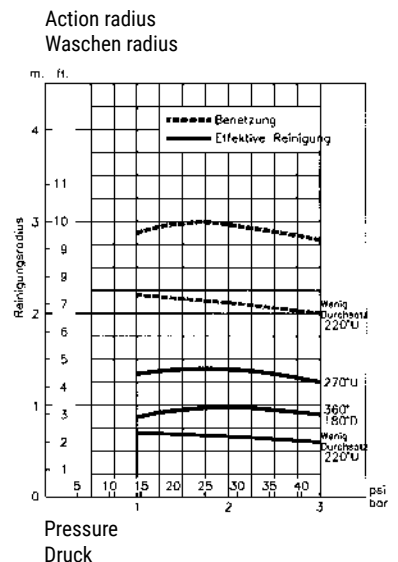
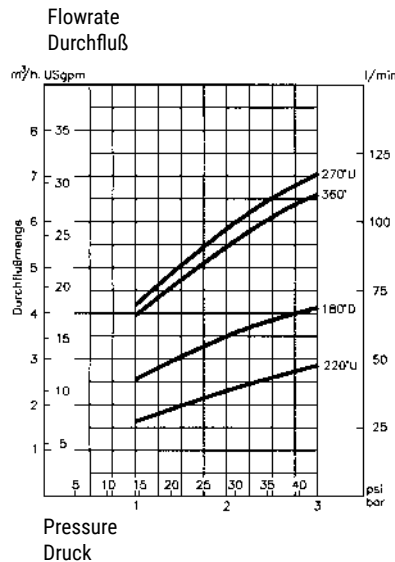


Rotary cleaning ball two - bearings 360°
for wealding
Sprühkopf 360° auf rohr aufgeschweißt

5322C



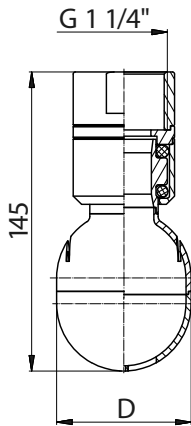
	Dimensions • Abmessungen			
	DN	A	B	D
5322B	45	28,5		45
5322B	45	29,5		45
5322C	45	28	25	45
5322C	45	29	26	45



SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Rotary cleaning ball two - bearings 360°
thread 1 1/4"
Sprühkopf 360° gewinde 1 1/4"

5323A



Rotary Cleaning ball, Rotations Sprühkopf Sani Midget

Material, Werkstoff

Body, Gehäuse: AISI 316L (1.4404)
Marbles, kugeln: AISI 316L (1.4404) / PTFE
Other, sonstiges: AISI 316 L

Pressure, Druck

Working pressure, Arbeitsdruck 1 – 3 bar
Recommended pressure, Empfohlener Druck 2 bar

Temperature, Temperatur

Max. operating temperature, Max. Arbeitstemperatur 230° C
Max. temperature precincts, Max. Umgebungs-Temperatur 140° C

Wettability surface, Benetzungsradius Max 3 m

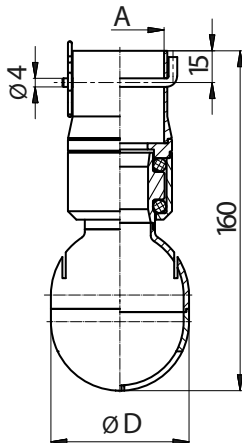
Degree of purification, Reinigungsradius Max 2 m

Connection, Verbindung

- 1.) Thread, Gewinde G 1 1/4"
- 2.) Cotter key, Klammer
- 3.) For welding, Auf Rohr aufgeschweißt

Rotary cleaning ball two - bearings 360°
cotter key
Sprühkopf 360° klammer

5323B

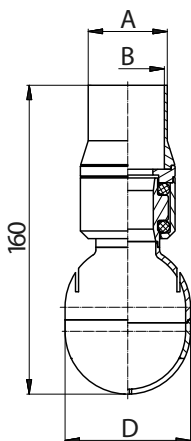


Dimensions • Abmessungen

	DN	A	B	D
5323B	65	40,5		65
5323B	65	41,5		65
5323C	65	40	37	65
5323C	65	41	38	65

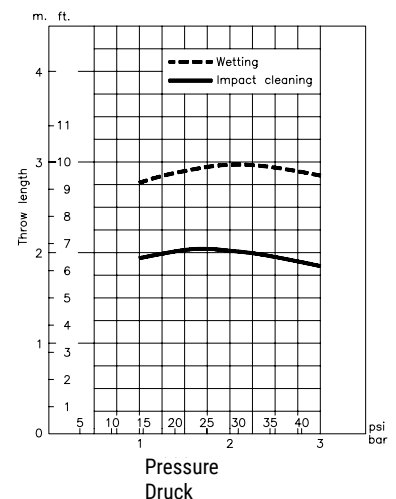
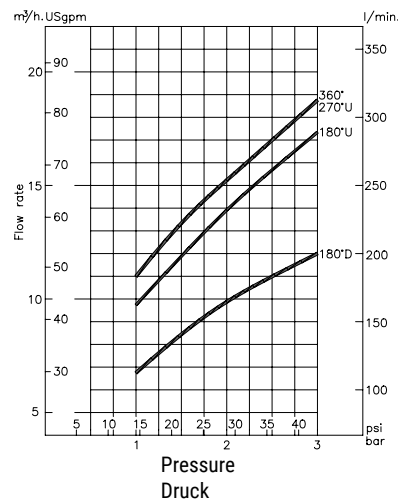
Rotary cleaning ball two - bearings 360°
for welding
Sprühkopf 360° auf rohr aufgeschweißt

5323C



Flowrate
Durchfluß

Action radius
Waschen radius

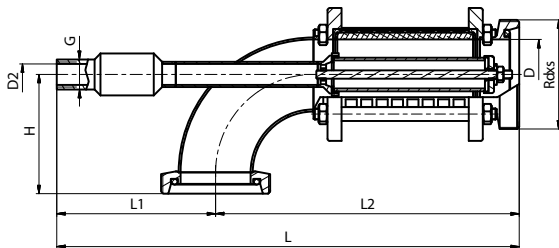


SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Filling plug 90° G - G
Sattig Ungskerze 90° G - G

53300

Dimensions • Abmessungen

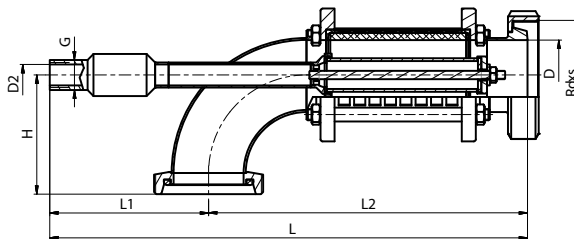


DN	D	D2	H	L	L1	L2	G		Rd x s	kg
25	26	9	65	255	85	170	G 1/4"		52 x 1/6"	1,5
32	32	9	87	265	90	175	G 1/4"		58 x 1/6"	1,75
40	38	9	87	280	90	190	G 1/4"		65 x 1/6"	2
50	50	16	90	320	100	220	G 1/2"		78 x 1/6"	2,45
65	66	16	97	343	110	233	G 1/2"		95 x 1/6"	3,6
80	81	16	109	392	114	278	G 1/2"		110 x 1/4"	4,5

Filling plug 90° G - KM
Sattig Ungskerze 90° G - KM

53301

Dimensions • Abmessungen

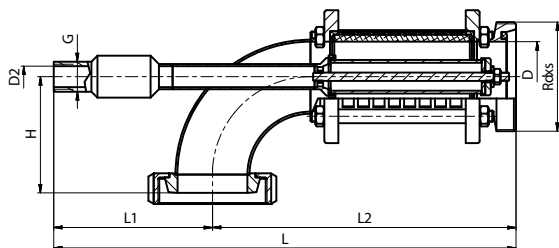


DN	D	D2	H	L	L1	L2	G		Rd x s	kg
25	26	9	65				G 1/4"		52 x 1/6"	1,5
32	32	9	87				G 1/4"		58 x 1/6"	1,75
40	38	9	87				G 1/4"		65 x 1/6"	2
50	50	16	90				G 1/2"		78 x 1/6"	2,45
65	66	16	97				G 1/2"		95 x 1/6"	3,6
80	81	16	109				G 1/2"		110 x 1/4"	4,5

Filling plug 90° KM - G
Sattig Ungskerze 90° KM - G

53302

Dimensions • Abmessungen

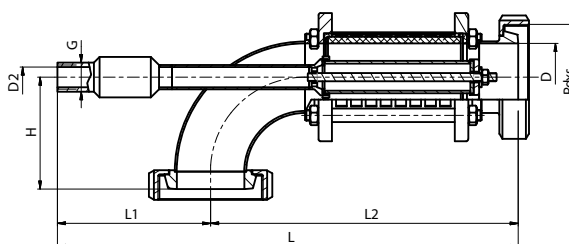


DN	D	D2	H	L	L1	L2	G		Rd x s	kg
25	26	9		255	85	170	G 1/4"		52 x 1/6"	1,5
32	32	9		265	90	175	G 1/4"		58 x 1/6"	1,75
40	38	9		280	90	190	G 1/4"		65 x 1/6"	2
50	50	16		320	100	220	G 1/2"		78 x 1/6"	2,45
65	66	16		343	110	233	G 1/2"		95 x 1/6"	3,6
80	81	16		392	114	278	G 1/2"		110 x 1/4"	4,5

Filling plug 90° KM - KM
Sattig Ungskerze 90° KM - KM

53303

Dimensions • Abmessungen



DN	D	D2	H	L	L1	L2	G		Rd x s	kg
25	26	9					G 1/4"		52 x 1/6"	1,5
32	32	9					G 1/4"		58 x 1/6"	1,75
40	38	9					G 1/4"		65 x 1/6"	2
50	50	16					G 1/2"		78 x 1/6"	2,45
65	66	16					G 1/2"		95 x 1/6"	3,6
80	81	16					G 1/2"		110 x 1/4"	4,5

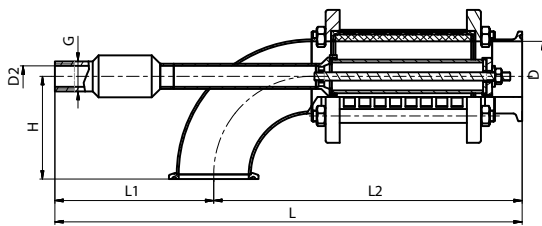
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Filling plug 90° C - C
Sattig Ungskerze 90° C - C

53304

Dimensions • Abmessungen

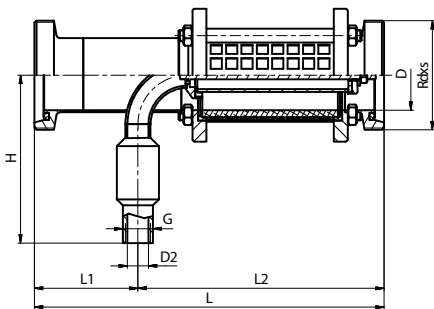


DN	D	D2	H	L	L1	L2	G	Rd x s	kg
25	26	9					G 1/4"	52 x 1/6"	1,5
32	32	9					G 1/4"	58 x 1/6"	1,75
40	38	9					G 1/4"	65 x 1/6"	2
50	50	16					G 1/2"	78 x 1/6"	2,45
65	66	16					G 1/2"	95 x 1/6"	3,6
80	81	16					G 1/2"	110 x 1/4"	4,5

Filling plug direct G - G
Karbonisierapparat Direkte G - G

53305

Dimensions • Abmessungen

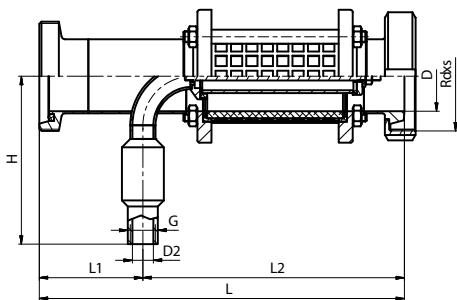


DN	D	D2	H	L	L1	L2	G	Rd x s	kg
25	26	9	121	231	62	169	G 1/4"	52 x 1/6"	1,5
32	32	9	121	235	66	169	G 1/4"	58 x 1/6"	1,75
40	38	9	121	216	47	169	G 1/4"	65 x 1/6"	2
50	50	16	132	255	60	195	G 1/2"	78 x 1/6"	2,45
65	66	16	132	265	65	200	G 1/2"	95 x 1/6"	3,6
80	81	16	132	301	83	218	G 1/2"	110 x 1/4"	4,5

Filling plug direct G - KM
Karbonisierapparat Direkte G - KM

53306

Dimensions • Abmessungen

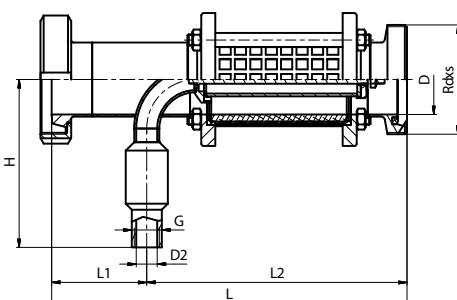


DN	D	D2	H	L	L1	L2	G	Rd x s	kg
25	26	9	121				G 1/4"	52 x 1/6"	1,5
32	32	9	121				G 1/4"	58 x 1/6"	1,75
40	38	9	121				G 1/4"	65 x 1/6"	2
50	50	16	132				G 1/2"	78 x 1/6"	2,45
65	66	16	132				G 1/2"	95 x 1/6"	3,6
80	81	16	132				G 1/2"	110 x 1/4"	4,5

Filling plug direct KM - G
Karbonisierapparat Direkte KM - G

53307

Dimensions • Abmessungen



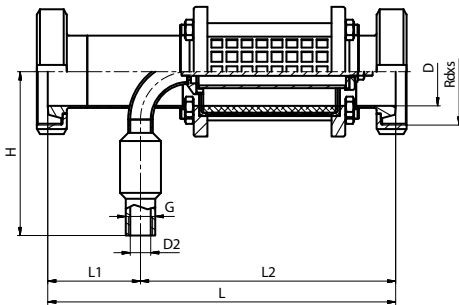
DN	D	D2	H	L	L1	L2	G	Rd x s	kg
25	26	9	121				G 1/4"	52 x 1/6"	1,5
32	32	9	121				G 1/4"	58 x 1/6"	1,75
40	38	9	121				G 1/4"	65 x 1/6"	2
50	50	16	132				G 1/2"	78 x 1/6"	2,45
65	66	16	132				G 1/2"	95 x 1/6"	3,6
80	81	16	132				G 1/2"	110 x 1/4"	4,5

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Filling plug direct KM - KM
Karbonisierapparat Direkte KM - KM

53308

Dimensions • Abmessungen

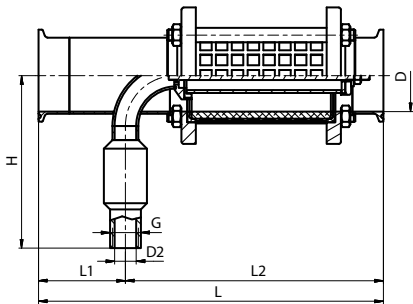


DN	D	D2	H	L	L1	L2	G		Rd x s	kg
25	26	9	121				G 1/4"		52 x 1/6"	1,5
32	32	9	121				G 1/4"		58 x 1/6"	1,75
40	38	9	121				G 1/4"		65 x 1/6"	2
50	50	16	132				G 1/2"		78 x 1/6"	2,45
65	66	16	132				G 1/2"		95 x 1/6"	3,6
80	81	16	132				G 1/2"		110 x 1/4"	4,5

Filling plug direct C - C
Karbonisierapparat Direkte C - C

53309

Dimensions • Abmessungen



DN	D	D2	H	L	L1	L2	G		Rd x s	kg
25	26	9	121				G 1/4"		52 x 1/6"	1,5
32	32	9	121				G 1/4"		58 x 1/6"	1,75
40	38	9	121				G 1/4"		65 x 1/6"	2
50	50	16	132				G 1/2"		78 x 1/6"	2,45
65	66	16	132				G 1/2"		95 x 1/6"	3,6
80	81	16	132				G 1/2"		110 x 1/4"	4,5

Body satiating plugs
Diffusor

5330T

Dimensions • Abmessungen



5330T-V

5330T-K

5330T-S

DN			
25 - 40	5330T-V	5330T-K	5330T-S
50 - 65	5330T-V	5330T-K	5330T-S
80 - 100	5330T-V	5330T-K	5330T-S

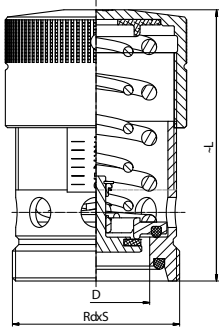
5330T-V Stainless steel pipe, drilled
Edelstahlrohr, gebohrt

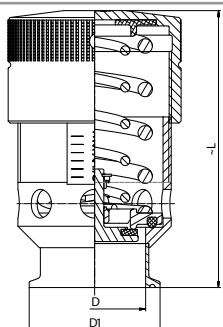
5330T-K Ceramic
Keramika

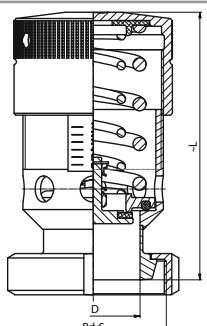
5330T-S Sintered steel
Sinterstahl

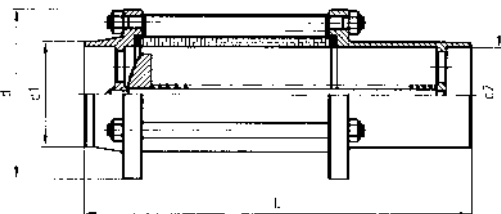
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Pressure compensation valves - G Doppeltwirkendes Luftventil - G	53340	Dimensions • Abmessungen								
		DN	A	B	C	D	pressure	L	Rd x s	kg
									DIN 405	
	40					38	0,1-3 bar	133	65x1/6"	1,6
	40					38	0,1-6 bar	133	65x1/6"	1,6
	50					50	0,1-3 bar	126	78x1/6"	1,4
	50					50	0,1-6 bar	126	78x1/6"	1,4
	80					81	0,1-2 bar	180	110x1/4"	4,45

Pressure compensation valves - C Doppeltwirkendes Luftventil - C	53343	Dimensions • Abmessungen								
		DN	A	B	D	D1	pressure	L	Rd x s	kg
	40				38	50,5	0,1-3 bar	146		1,4
	40				38	50,5	0,1-6bar	146		1,4
	50				50	64	0,1-3 bar	133		1,3
	50				50	64	0,1-6 bar	133		1,3
	80				81	106	0,1-2 bar	180		4

Pressure compensation valves - K/M Doppeltwirkendes Luftventil - K/M	53344	Dimensions • Abmessungen								
		DN	A	B	C	D	pressure	L	Rd x s	kg
									DIN 405	
	40					38	0,1-3 bar	151	65x1/6"	
	40					38	0,1-6 bar	151	65x1/6"	
	50					50	0,1-3 bar	138	78x1/6"	
	50					50	0,1-6 bar	138	78x1/6"	
	80					81	0,1-2 bar	180	110x1/4"	

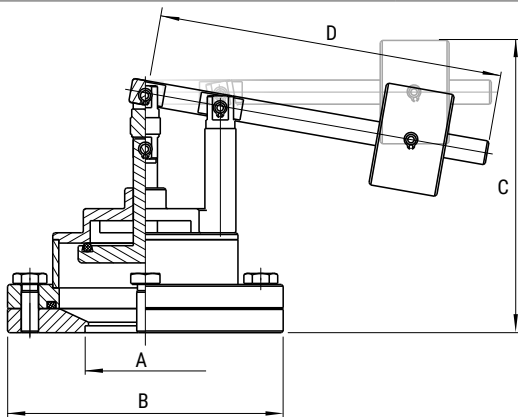
Flowmeters S - S Durchflußmesser S - S	53350	Dimensions • Abmessungen							
		DN	L	d	d1	d2	Durchfluß - 3/h.	Rd x s	kg
								DIN 405	
	25 GG	169	58	31	26	1,5-7		52x1/6"	0,78
	25 SS	153	58	31	26	1,0-4			0,6
	25 SS	153	58	31	26	0,5-2			0,6
	40 GG	188	79	43	38	7-11		65x1/6"	1,3
	40 SS	179	79	43	38	5-8,5			1
	40 SS	179	79	43	38	3-6			1
	50 GG	213	88	55	50	9-16		78x1/6"	1,85
	50 SS	196	88	55	50	6-12			1,4
	50 SS	196	88	55	50	4,5-8,5			1,4

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Vacuum valve with weight loaded - PN
Vakuumventil gewichtsbelastet - PN

53390

Dimensions • Abmessungen

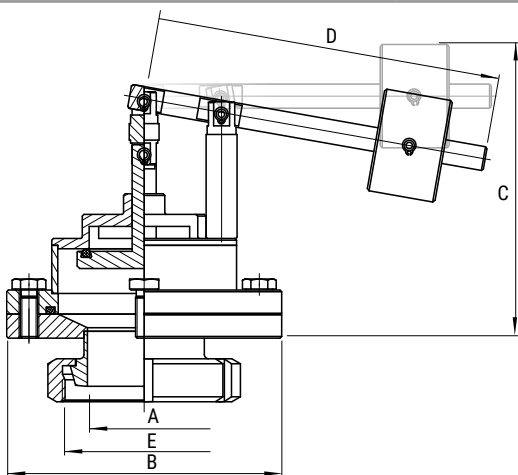


DN	A	B	C	D	E	R	L	Rd x s	kg
50	52	140	137	170					
65	70	160	140	200					
80	85	190	147	220					
100	104	210	149	255					
125	129	235	158	265					
150	154	270	163	300					

Vacuum valve with weight loaded - K/M
Vakuumventil gewichtsbelastet - K/M

53391

Dimensions • Abmessungen

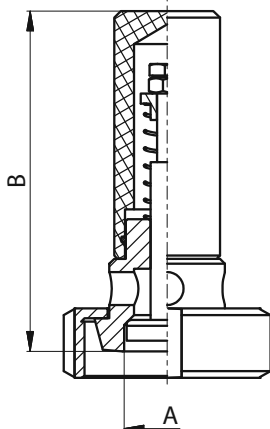


DN	A	B	C	D	E	L	Rd x s	kg
					thread DIN 405			
50	52	140	137	170	78 x 1/6"			
65	70	160	140	200	95 x 1/6"			
80	85	190	147	220	110 x 1/4"			
100	104	210	149	255	130 x 1/4"			
125	129	235	158	265	160 x 1/4"			
150	154	270	163	300	190 x 1/4"			

Vacuum valve spring loaded - K/M
Vakuumventil federbelastet - K/M

53420

Dimensions • Abmessungen



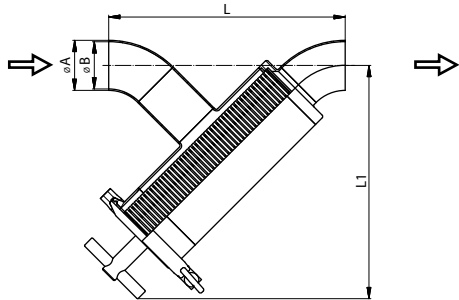
DN	A	B	C	D	E	F	L	Rd x s	kg
25	26	103							0,3
40	38	125							0,8
50	50	143							0,95
Vacuum - 0,005 bar mat. 1.4301									

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Dirt trap direct NF, S - S
Schmutzfänger direkt NF, S - S

53431

Dimensions • Abmessungen



DN	A	B	C	L	L1			Rd x S
25	29	26		203,6	223,6			
40	41	38		217,8	226,5			
50	53	50		261,6	279,7			
65	70	66		278,6	284			
80	85	81		332,3	343,2			
100	104	100		346,5	346,1			

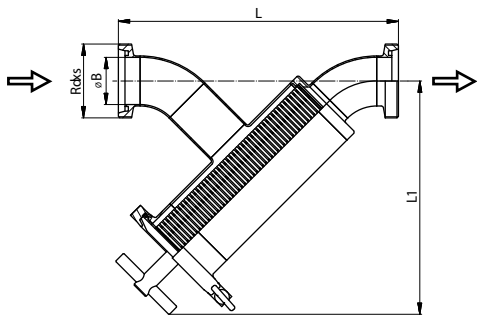
Schmutzfänger - slot 1,0 or 0,5 mm standard
Other dimensions on request

Spaltrohr - Spalte 1,0 oder 0,5 mm
Andere abmessungen auf anfrage

Dirt trap direct NF, G - G
Schmutzfänger direkt NF, G - G

53432

Dimensions • Abmessungen



DN	A	B	C	L	L1			Rd x S
								DIN 405
25		26		247,6	223,6			52x1/6"
40		38		261,8	226,5			65x1/6"
50		50		307,6	279,7			78x1/6"
65		66		328,6	284			95x1/6"
80		81		384,3	343,2			110x1/4"
100		100		406,5	346,1			130x1/4"

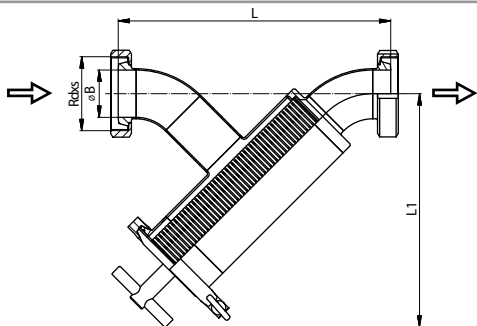
Schmutzfänger - slot 1,0 or 0,5 mm standard
Other dimensions on request

Spaltrohr - Spalte 1,0 oder 0,5 mm
Andere abmessungen auf anfrage

Dirt trap direct NF, K/M - K/M
Schmutzfänger direkt NF, K/M - K/M

53433

Dimensions • Abmessungen



DN	A	B	C	L	L1			Rd x S
								DIN 405
25		26		239,6	223,6			52x1/6"
40		38		253,8	226,5			65x1/6"
50		50		299,6	279,7			78x1/6"
65		66		320,6	284			95x1/6"
80		81		374,3	343,2			110x1/4"
100		100		396,5	346,1			130x1/4"

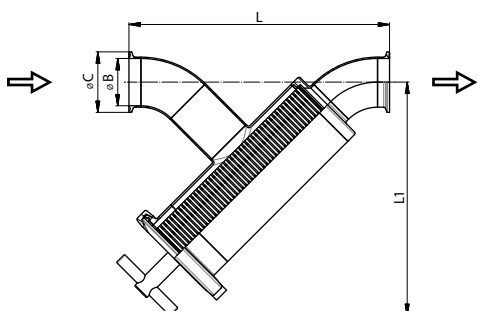
Schmutzfänger - slot 1,0 or 0,5 mm standard
Other dimensions on request

Spaltrohr - Spalte 1,0 oder 0,5 mm
Andere abmessungen auf anfrage

Dirt trap direct NF, C - C
Schmutzfänger direkt NF, C - C

53435

Dimensions • Abmessungen



DN	A	B	C	L	L1			E
25		26	50,5	229	223,6			
40		38	50,5	243,2	226,5			
50		50	64	287	279,7			
65		66	91	304	284			
80		81	106	357,7	343,2			
100		100	119	378,1	346,1			

Schmutzfänger - slot 1,0 or 0,5 mm standard
Other dimensions on request

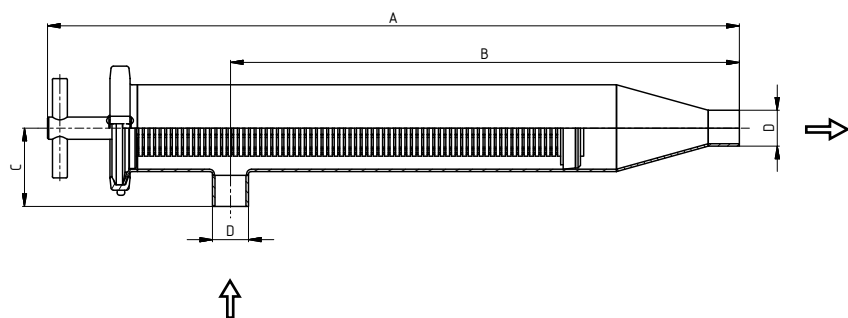
Spaltrohr - Spalte 1,0 oder 0,5 mm
Andere abmessungen auf anfrage

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Corner filter NF, S - S
Rohrfilter NF, S - S

53451

Dimensions • Abmessungen



DN	A	B	C	D
25	557,5	410	63	29
32	547	399,5	63	35
40	534,5	387	63	41
50	595,5	423	85	53
65	563,5	391	85	70
80	770	564	130	85
100	731	525	130	104

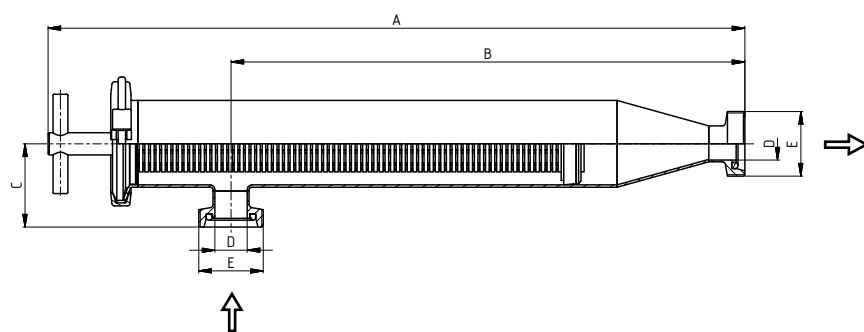
Schmutzfänger - slot 1,0 or 0,5 mm standard
Other dimensions on request

Spaltrohr - Spalte 1,0 oder 0,5 mm
Andere abmessungen auf anfrage

Corner filter NF, G - G
Rohrfilter NF, G - G

53452

Dimensions • Abmessungen



DN	A	B	C	D	E
					DIN 405
25	561,5	414	67	26	52x1/6"
32	553,5	406,5	70	32	58x1/6"
40	542,5	395	71	38	65x1/6"
50	600,5	428	90	50	78x1/6"
65	573,5	401	95	66	95x1/6"
80	770	564	130	81	110x1/4"
100	740	534	139	100	130x1/4"

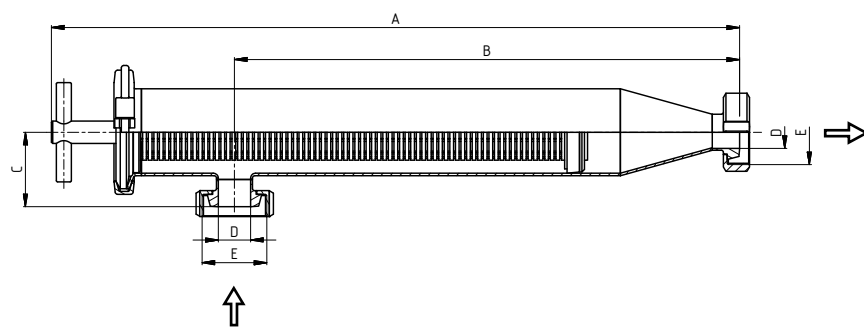
Schmutzfänger - slot 1,0 or 0,5 mm standard
Other dimensions on request

Spaltrohr - Spalte 1,0 oder 0,5 mm
Andere abmessungen auf anfrage

Corner filter NF, K/M - K/M
Rohrfilter NF, K/M - K/M

53453

Dimensions • Abmessungen



DN	A	B	C	D	E
					DIN 405
25	554,5	407	60	26	52x1/6"
32	547	399,5	63	32	58x1/6"
40	535,5	388	64	38	65x1/6"
50	593,5	421	83	50	78x1/6"
65	565,5	393	87	66	95x1/6"
80	762	556	122	81	110x1/4"
100	730	524	129	100	130x1/4"

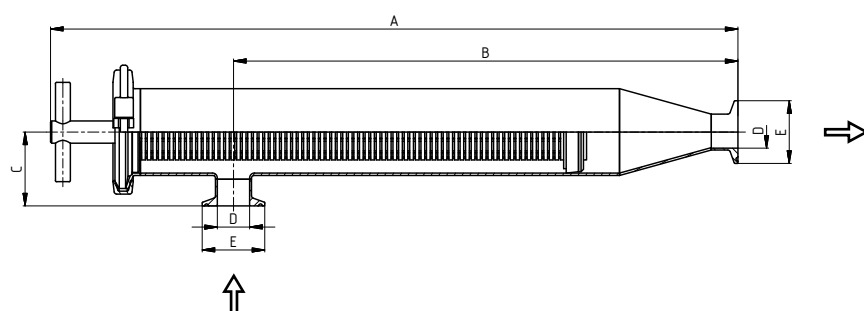
Schmutzfänger - slot 1,0 or 0,5 mm standard
Other dimensions on request

Spaltrohr - Spalte 1,0 oder 0,5 mm
Andere abmessungen auf anfrage

Corner filter NF, C - C
Rohrfilter NF, C - C

53455

Dimensions • Abmessungen



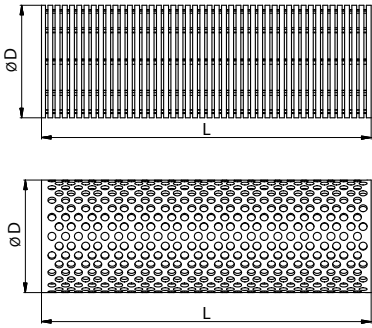
DN	A	B	C	D	E
25	554	406,5	59,5	26	50,5
32	543,5	396	59,5	32	50,5
40	531	383,5	59,5	38	50,5
50	587	414,5	76,5	50	64
65	561,5	389	83	66	91
80	753	547	113	81	106
100	714	508	113	100	119

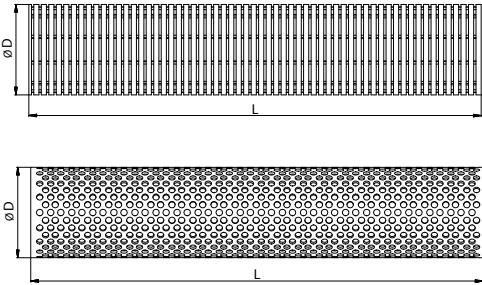
Schmutzfänger - slot 1,0 or 1,5 mm standard
Other dimensions on request

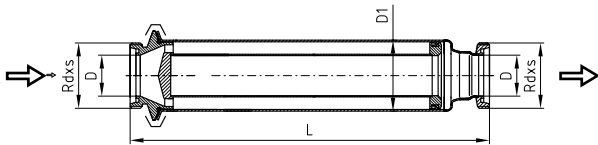
Spaltrohr - Spalte 1,0 oder 0,5 mm
Andere abmessungen auf anfrage

SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

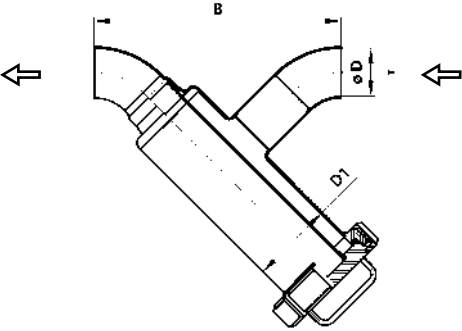
Sieve of direct filter NF Sieb des Direktfilters NF	5343V	Dimensions • Abmessungen								
		DN	D	L					Rd x s	kg
	25	45	178							
	32	45	178							
	40	45	178							
	50	70	205							
	65	70	205							
	80	110	250							
	100	110	250							
Schmutzfänger - slot 1,0 or 0,5 mm standard Other dimensions on request										
Spaltrohr - Spalte 1,0 oder 0,5 mm Andere abmessungen auf anfrage										

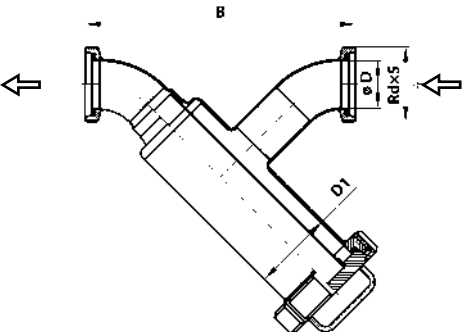
Sieve of corner filter NF Sieb des Eckfilters NF	5345V	Dimensions • Abmessungen								
		DN	D	L					Rd x s	kg
	25	45	353							
	32	45	353							
	40	45	353							
	50	70	350							
	65	70	350							
	80	110	470							
	100	110	470							
Schmutzfänger - slot 1,0 or 0,5 mm standard Other dimensions on request										
Spaltrohr - Spalte 1,0 oder 0,5 mm Andere abmessungen auf anfrage										

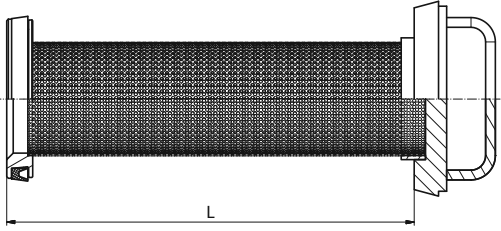
Dirt trap direct G - G Rohrfilter direkte G - G	53470	Dimensions • Abmessungen									
		DN	A	B	C	D	E	R	L	Rd x s	kg
										DIN 405	
	25				26	52	64	396		52x1/6"	
	32				32	70	91	402		58x1/6"	
	40				38	85	106	445		65x1/6"	
	50				50	85	106	437		78x1/6"	
	65				66	104	119	440		95x1/6"	
	80				81	129	155	645		110x1/4"	
	100				100	154	183	649		130x1/4"	
	125									160x1/4"	
	150									190x1/4"	

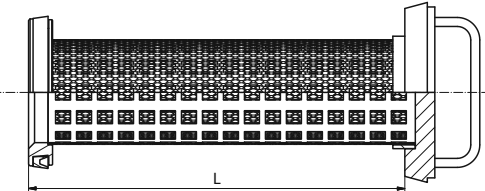
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Dirt trap S - S Schmutzfänger S - S	53480	Dimensions • Abmessungen									
		DN	A	B	C	D	D1	R	L	Rd x s	kg
		25		187		26	52				
		32		210		32	70				
		40		249		38	85				
		50		272		50	85				
		65		259		66	104				
		80		328		81	129				
		100		376		100	154				

Dirt trap G - G Schmutzfänger G - G	53490	Dimensions • Abmessungen									
		DN	A	B	C	D	D1	R	L	Rd x s	kg
		25		227		26	52			DIN 405	
		32		250		32	70			52 x 1/6"	
		40		288		38	85			58 x 1/6"	
		50		312		50	85			65 x 1/6"	
		65		309		66	104			78 x 1/6"	
		80		384		81	129			95 x 1/6"	
		100		432		100	154			110 x 1/4"	

Strainer for dirt filter - sheet Siebeinsatz schmutzfänger - blech	5349V-P	Dimensions • Abmessungen									
		DN	A	B	C	D	E	F	L	Rd x s	kg
		25							195		
		32							202		
		40							200		
		50							220		
		65							257		
		80							260		
		100							320		
The standard dimension of holes is 1,0 mm Other dimensions on request (2, 3, 4, 5, 6 and 8 mm)											
The standard dimension of holes is 1,0 mm Andere abmessungen auf anfrage (2, 3, 4, 5, 6, and 8 mm)											

Strainer for dirt filter - sieve Siebeinsatz schmutzfänger - lochsieb	5349V-S	Dimensions • Abmessungen									
		DN	A	B	C	D	E	F	L	Rd x s	kg
		25							195		
		32							202		
		40							200		
		50							220		
		65							257		
		80							260		
		100							320		
Dimensions of the sieve 0,05 - 1,0 mm Abmessungen der sieb 0,05 - 1,0 mm											

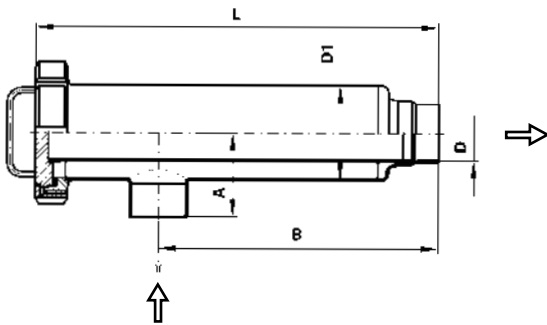
SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

Angle tubular filter S - S
Eckrohrsieb S - S

53500

Dimensions • Abmessungen

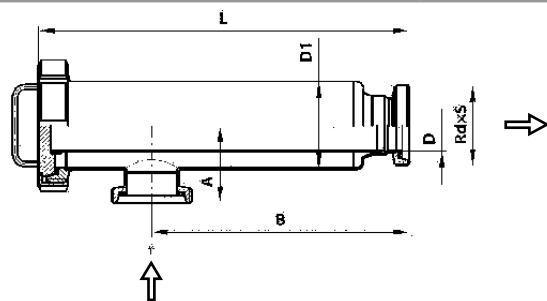


DN	A	B	D1	D	F	R	L	Rd x s	kg
25	55	222	52	26			318		1,7
32	65	227	70	32			332		2,9
40	75	245	85	38			356		4
50	75	250	85	50			356		4,9
65	85	265	104	66			383		5,8
80	100	335	129	81			542		8,2
100	115	345	154	100			571		11,4
125	150	430	204	125			577		
150	160	500	219	150			792		

Angle tubular filter G - G
Eckrohrsieb G - G

53510

Dimensions • Abmessungen

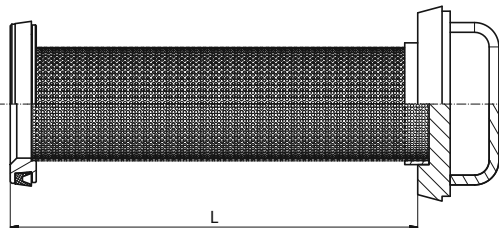


DN	A	B	D	D1	E	R	L	Rd x s	kg
								DIN 405	
25	55	230	26	52			318	52 x 1/6"	1,90
32	65	235	32	70			332	58 x 1/6"	3,10
40	75	245	38	85			356	65 x 1/6"	4,20
50	75	250	50	85			356	78 x 1/6"	4,20
65	85	275	66	104			383	95 x 1/6"	6,20
80	100	345	81	129			542	110 x 1/6"	8,70
100	115	355	100	154			571	130 x 1/6"	12,70
125									
150									

Stainer for angle filter - sheet
Siebeinsatz eckrohrsieb - blech

5350V-P

Dimensions • Abmessungen

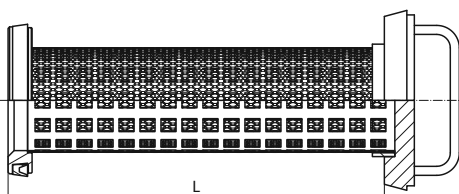


DN	A	B	C	D	E	F	L	Rd x s	kg
25							250		
32							257		
40							282		
50							290		
65							317		
80							460		
100							470		
The standard dimension of holes is 1,0 mm Other dimensions on request (2, 3, 4, 5, 6 and 8 mm)									
The standard dimension of holes is 1,0 mm Andere abmessungen auf anfrage (2, 3, 4, 5, 6, und 8 mm)									

Stainer for angle filter - sieve
Siebeinsatz eckrohrsieb - lochsieb

5350V-S

Dimensions • Abmessungen



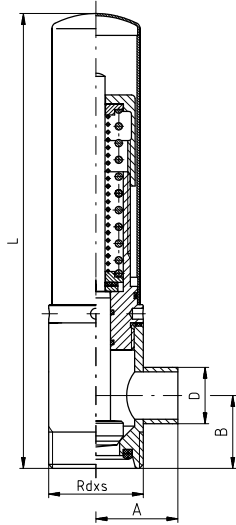
DN	A	B	C	D	E	F	L	Rd x s	kg
25							250		
32							257		
40							282		
50							290		
65							317		
80							460		
100							470		
Dimensions of the sieve 0,05 - 1,0 mm Abmessungen der sieb 0,05 - 1,0 mm									

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Angular overflow valve - G - S 90°
Federsicherheits ventil mit seitlichem abgang
G - S 90°

53600

Dimensions • Abmessungen

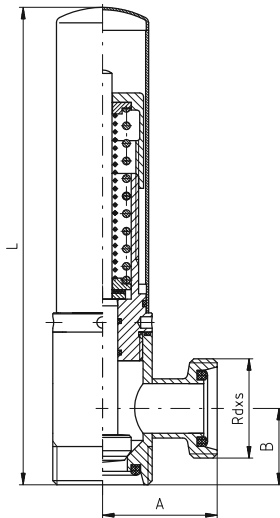


DN	D	L	A	B	R	Rd x s	kg	
							DIN 405	
25	31	250	45	40		52x1/6"	1,800	
32	37	255	50	50		58x1/6"	1,900	
40	43	325	65	55		65x1/6"	4,100	
50	55	325	65	60		78x1/6"	4,200	
65	72	330	70	75		95x1/6"	4,500	
Pressure / Druck								
DN 25 - 32		0,3 - 8,0 bar						
DN 40 - 65		0,3 - 6,0 bar						

Angular overflow valve G - G 90°
Federsicherheits ventil mit seitlichem abgang
G - G 90°

53620

Dimensions • Abmessungen

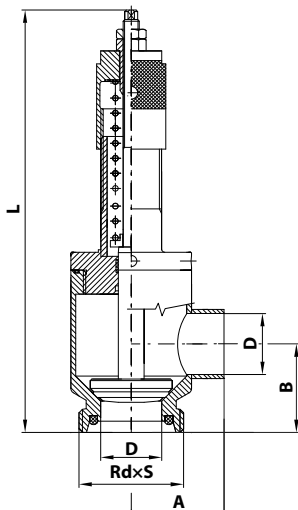


DN	L	A	B	R	L	Rd x s	kg	
							DIN 405	
25	250	60	40			52x1/6"	1,900	
32	255	60	50			58x1/6"	2,000	
40	325	70	55			65x1/6"	4,250	
50	325	70	60			78x1/6"	4,300	
65	330	80	75			95x1/6"	4,700	
Pressure / Druck								
DN 25 - 32		0,3 - 8,0 bar						
DN 40 - 65		0,3 - 4,0 bar						

Angular regulation valve with the mechanical aeration G - S 90°
Federsicherheits ventil mit handanlüftung
G - S 90°

53700

Dimensions • Abmessungen



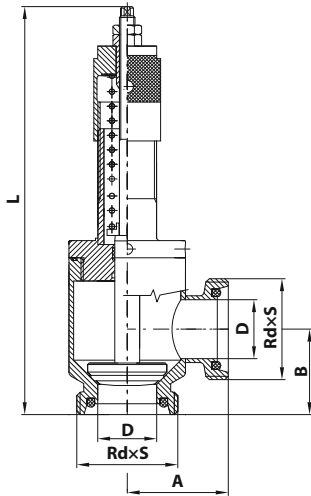
DN	D	L	A	B	R	Rd x s	kg	
							DIN 405	
25	26	245	44	40		52x1/6"	1,900	
32	32	250	53,5	50		58x1/6"	2,000	
40	38	285	63	55		65x1/6"	4,250	
50	50	295	66	60		78x1/6"	4,300	
65	66	340	125	85		95x1/6"	4,700	
80	81	365	140	95		110x1/4"		
with mechanical aeration mit mechanischer belüftung								
Pressure / Druck								
DN 25 - 32		0,3 - 8,0 bar						
DN 40 - 65		0,3 - 4,0 bar						

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Angular regulation valve with the mechanical aeration G - G 90°
Federsicherheits ventil mit handanlüftung G - G 90°

53710

Dimensions • Abmessungen

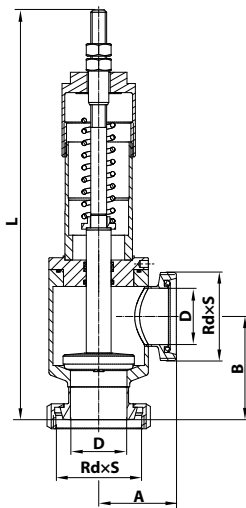


DN	D	L	A	B	Rd x s	kg
						DIN 405
25	26	245	60	40	52×1/6"	1,900
32	32	250	65	50	58×1/6"	2,000
40	38	285	65	55	65×1/6"	4,250
50	50	295	80	60	78×1/6"	4,300
65	66	340	85	85	95×1/6"	4,700
80	81	365	95	95	110×1/4"	
with mechanical aeration mit mechanischer belüftung						
Pressure / Druck						
DN 25 - 32		0,3 - 8,0 bar				
DN 40 - 65		0,3 - 4,0 bar				

Angular regulation valve with the mechanical aeration K/M - G 90°
Federsicherheits ventil mit handanlüftung K/M - G 90°

53720

Dimensions • Abmessungen

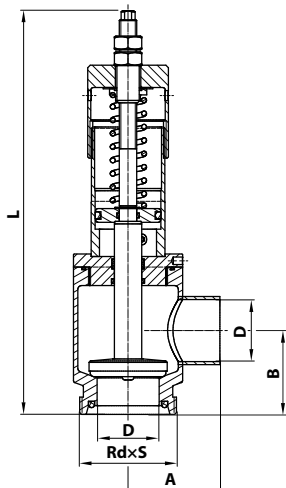


DN	D	L	A	B	Rd x s	kg
						DIN 405
25	26	245	60	50	52×1/6"	1,900
32	32	250	65	65	58×1/6"	2,000
40	38	285	65	70	65×1/6"	4,250
50	50	295	80	70	78×1/6"	4,300
65	66	340	85	85	95×1/6"	4,700
80	81	365	95	100	110×1/4"	
with mechanical aeration mit mechanischer belüftung						
Pressure / Druck						
DN 25 - 32		0,3 - 8,0 bar				
DN 40 - 65		0,3 - 4,0 bar				

Angular overflow valve G - S 90°
Federsicherheits ventil mit seitlichem abgang G - S 90°

53750

Dimensions • Abmessungen



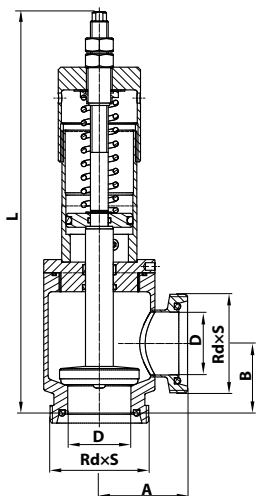
DN	D	L	A	B	Rd x s	kg
						DIN 405
25	26	245	44	40	52×1/6"	1,900
32	32	250	53,5	50	58×1/6"	2,000
40	38	285	63	55	65×1/6"	4,250
50	50	295	66	60	78×1/6"	4,300
65	66	340	125	85	95×1/6"	4,700
80	81	365	140	95	110×1/4"	
with pneumatic aeration mit pneumatischer belüftung						
Pressure / Druck						
DN 25 - 32		0,3 - 8,0 bar				
DN 40 - 65		0,3 - 4,0 bar				

SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Angular overflow valve G - G 90°
Federsicherheits ventil mit pneumatischer anlüftung G - G 90°

53760

Dimensions • Abmessungen

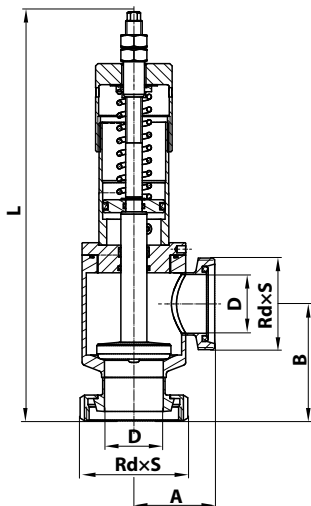


DN	D	L	A	B	Rd x s	kg
DIN 405						
25	26	245	60	40	52x1/6"	2,100
32	32	250	65	50	58x1/6"	2,200
40	38	285	65	55	65x1/6"	4,450
50	50	295	80	60	78x1/6"	4,500
65	66	340	85	85	95x1/6"	4,900
80	81	365	95	95	110x1/4"	
with pneumatic aeration mit pneumatischer belüftung						
Pressure / Druck						
DN 25 - 32		0,3 - 8,0 bar				
DN 40 - 65		0,3 - 4,0 bar				

Angular overflow valve K/M - G 90°
Federsicherheits ventil mit pneumatischer anlüftung K/M - G 90°

53770

Dimensions • Abmessungen



DN	D	L	A	B	Rd x s	kg
DIN 405						
25	26	245	60	50	52x1/6"	1,900
32	32	250	65	65	58x1/6"	2,000
40	38	285	65	70	65x1/6"	4,250
50	50	295	80	70	78x1/6"	4,300
65	66	340	85	85	95x1/6"	4,700
80	81	365	95	100	110x1/4"	
with pneumatic aeration mit pneumatischer belüftung						
Pressure / Druck						
DN 25 - 32		0,3 - 8,0 bar				
DN 40 - 65		0,3 - 4,0 bar				

Breather lever
Anhebevorrichtung

53795

Dimensions • Abmessungen



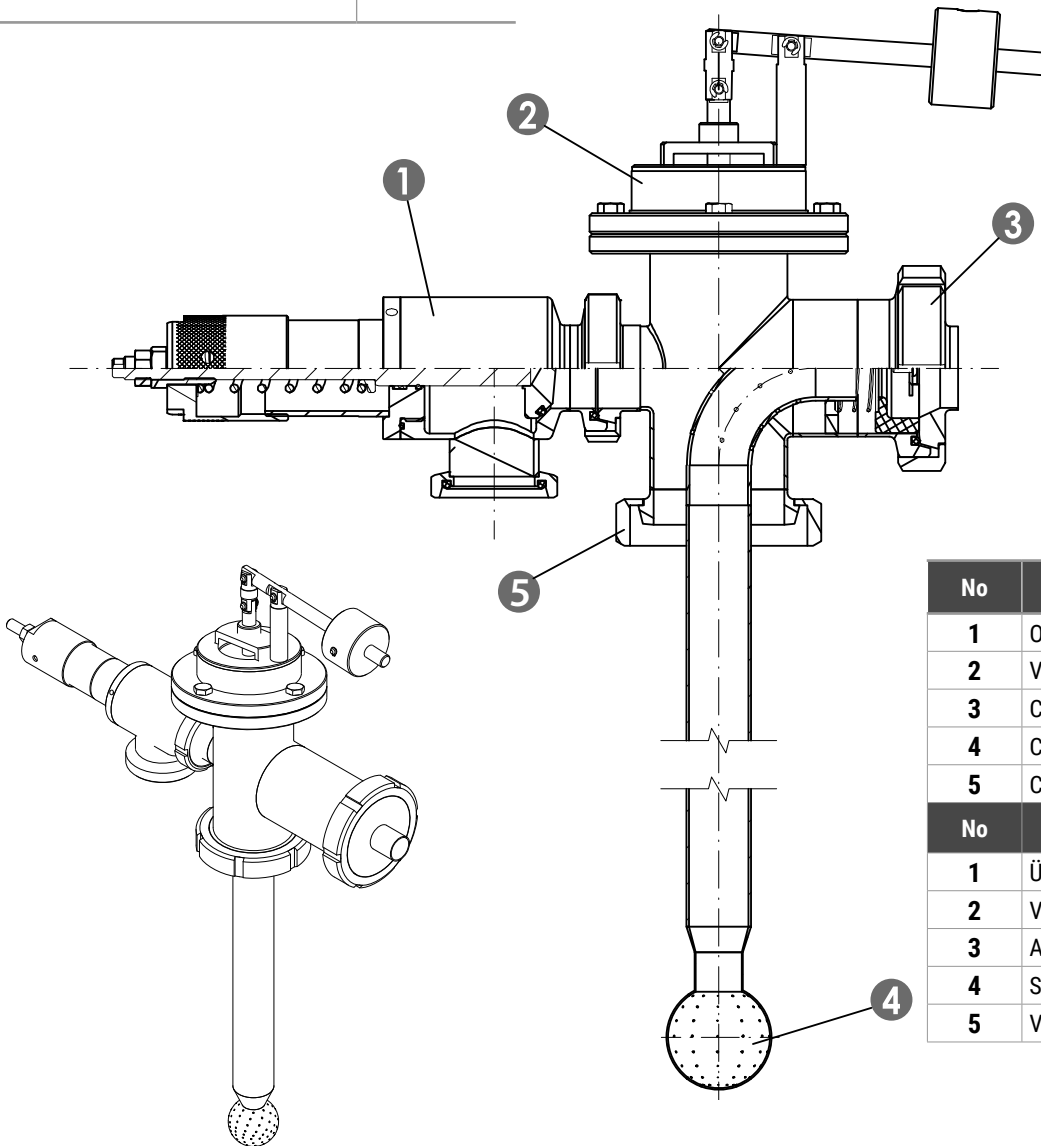
DN	A	B	C	D	F	L	Rd x s	kg
Designed for / Konzipiert für 53700, 53710, 53720 mat. 1.4301								

SPECIAL FITTINGS AND PARTS

SPEZIALARMATUREN UND TEILE

CIP combination
CIP kombination

54500



No	Name
1	Overflow valve
2	Vacuum valve
3	Connecting for welding
4	Cleaning ball
5	Connecting nut
No	Bezeichnung
1	Überströmventil
2	Vakuumventil
3	Anschluss für Aufschweißen
4	Sprühkopf
5	Verbindungs-mutter

Safety valve spring loaded without
vertical outlet K/M
Federsicherheits-ventil K/M ohne
seitlichen Abgang

59750

Dimensions • Abmessungen

DN	A	B	C	D	E	R	L	Rd x s	kg
24 (25)									
Pressure 1,0 - 8,0 bar Druck 1,0 - 8,0 bar mat. 1.4301									



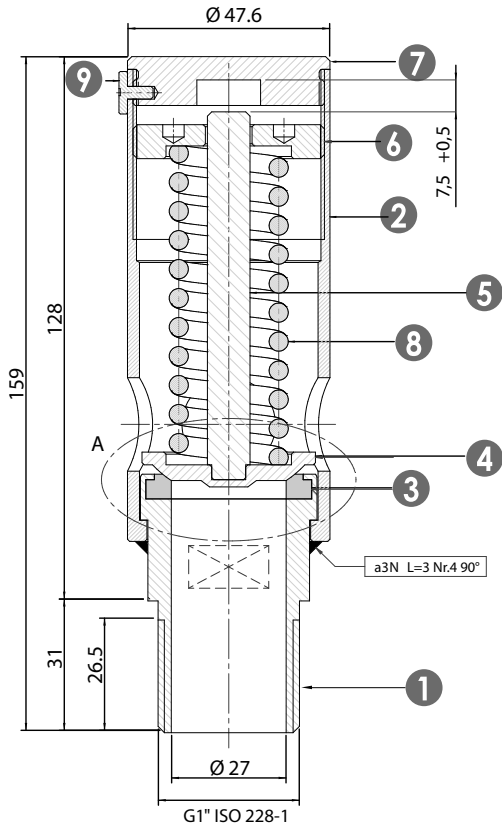
SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Safety valve with free discharge DN 1", 6 bar, PED
Belüftungsventile DN 1", 6 bar, PED

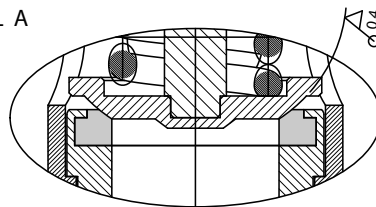
59839

Dimensions • Abmessungen

No	Name	Bezeichnung
1	Valve base - thread BSP G1"	Grundlage des ventils- Gewinde BSP G1"
2	Valve body	Ventil-körper
3	Gasket	Dichtung
4	Shutter	Verschlusskolben
5	Shutter stem	Kolbenstange
6	Shutter register	Unterlage der feder
7	Shutter stop	Ventildeckel
8	Spring	Feder
9	Gasket	Dichtung

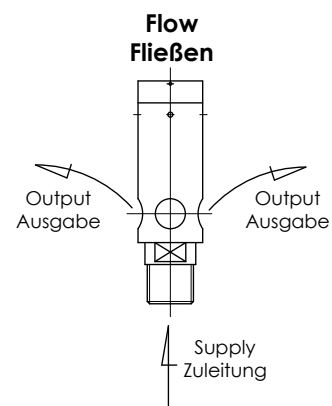


DETAIL A
2:1



Position - 8	Pressure range Druckbereich		Total length Gesamtlänge	External diameter Außen- durchmesser	Active spirit Aktive gewinde	Wire diameter Durchmesser des drahtes
	Bar					
	min	max	mm	mm	No	max
	4,5	6,0	90	28	9	4,0
	6,1	8,0	90	28	8	4,0
	8,1	11,0	95	28	11	4,5
	11,1	15,0	90	28	9	4,5

TECHNICAL SPECIFICATIONS	
PRESSURE PRODUCT IN COMPLIANCE TO DIRECTIVE	PED 2014/68/EU
DESIGN CODE	EN - ISO 4126-1
CATEGORY AND CLASSIFICATION	IV
CONSTRUCTION MODULE	H1
CUSTOMER NOTIFIED BODY APPROVAL	TÜV Rheinland
NOMINAL DIAMETER DN	1"
DESIGN PRESSURE PS	40 barg
INTERNAL DIAMETER	27 mm
AREA	5,73 cm ²
FIELD CALIBRATION	4,5 - 15,0 barg
TEMPERATURE	-20 / +250 °C
FLUIDS	Gas Gr. 1 - 2 except explosive gases
MARKING	CE 0035
THREADS MALE	G 1" ISO 228
DISCHARGE COEFFICIENT	k = 0.680
CLOSURE GAP	≤ 20%
TOLLERANCE ON SETTING	± 3% of set value



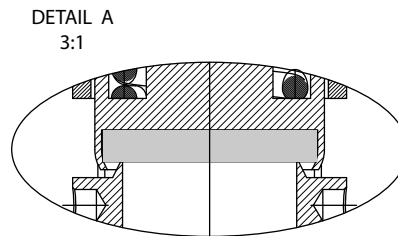
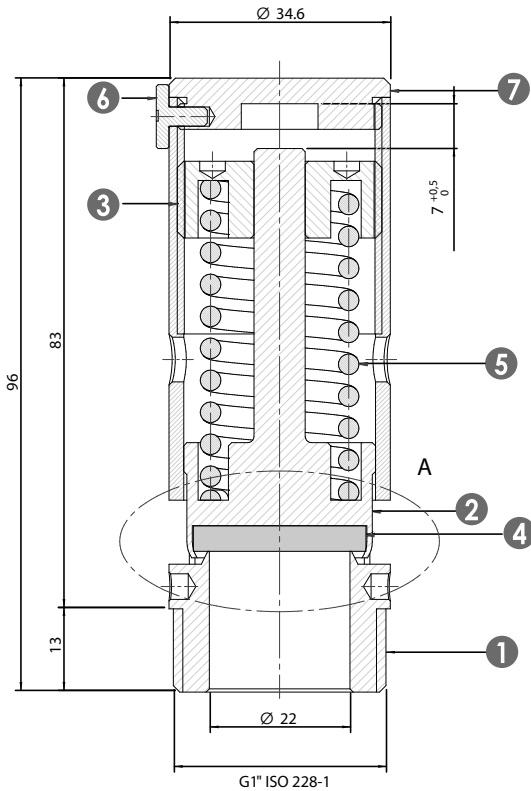
SPECIAL FITTINGS AND PARTS SPEZIALARMATUREN UND TEILE

Safety valve with free discharge DN 1", 6 bar, PED
Belüftungsventile DN 1", 6 bar, PED

59840

Dimensions • Abmessungen

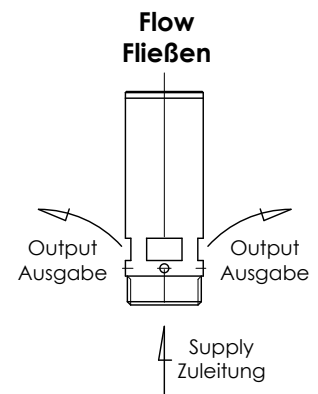
No	Name	Bezeichnung
1	Valve body	Корпус клапана
2	Shutter	Затвор
3	Spring register	Federführung
4	Gasket	Dichtung
5	Spring	Feder
6	Gasket	Dichtung
7	Valve cover	Ventildeckel



Position - 5	Pressure range Druckbereich		Total length Gesamtlänge	External diameter Außen- durchmesser	Active spirit Aktive gewinde	Wire diameter Durchmesser des drahtes
	Bar					
	min	max	mm	mm	No	max
	0,5	1,0	70	24,5	10	2,8
	1,1	1,8	70	25,5	8	2,8
	1,9	3,0	70	24	9	2,8
	3,1	4,7	75	25,5	9	3,0
	4,8	5,5	70	25	8	3,0
	5,66	6,5	71	24,8	9	3,2
	6,68	8,0	85	24	8	3,0

GASKET MATERIAL	WORKING TEMPERATURE
NBR	-10 / +100 °C
EPDM	-20 / +150 °C
VITON	-20 / +200 °C
SILICON	-20 / +200 °C
PTFE	-20 / +250 °C

TECHNICAL SPECIFICATIONS	
PRESSURE PRODUCT IN COMPLIANCE TO DIRECTIVE	PED 2014/68/EU
DESIGN CODE	EN - ISO 4126-1
CATEGORY AND CLASSIFICATION	IV
CONSTRUCTION MODULE	H1
CUSTOMER NOTIFIED BODY APPROVAL	TÜV Rheinland
NOMINAL DIAMETER DN	1"
DESIGN PRESSURE PS	40 barg
INTERNAL DIAMETER	22 mm
AREA	3,80 cm ²
FIELD CALIBRATION	0,5 - 8,0 barg
TEMPERATURE	-20 / +250 °C
FLUIDS	Gas Gr. 1 - 2 e xcept explosive gases
MARKING	CE 0035
DISCHARGE COEFFICIENT	k = 0.703
CLOSURE GAP	≤ 20%
TOLLERANCE ON SETTING	± 3% of set value



PRODUCER OF STAINLESS PIPING SYSTEMS
HERSTELLER VON EDELSTAHLARMATUREN

DOORS AND MANWAYS

MANNLOCHTÜREN UND KLAPPTÜREN



DOORS AND MANWAYS

By means of its new catalogue of manways and doors, NIOB FLUID s.r.o. can offer a large range of available products which characterize themselves for their quality and sturdiness. To give more and more an efficient service we report herewith some technical indications to follow. On all our manways and doors, all the components like screws, stirrups and arms which do not get in touch with the final product are made of in AISI 304 material. The standard gaskets are made of rubber fit to get in contact with soft foods reaching max 50°C / min. 18°C temperature. We can offer gaskets in Viton, Silicone, NBR, EPDM and other polymers available on request. It is mainly important to find the suitable polymer for the right liquid in order to avoid both temperature problems and composition problems of the product. A temperature chart giving some indications on the recommended polymers is available in the catalogue. FDA certifications are also available. The standard finishing of the frame is scouring, sand-blasted or glazed ($Ra \pm 1,6$) – The cover is mirror polished with a middle wrinkledness $Ra < 0,4$. We can offer both frames and covers with electrolytic finishing or with mirror polished medium wrinkledness finishing $Ra < 0,8$. The keeping pressure on manways and doors, the expansion and burst tests reported in this catalogue have been made during the prototype phase of the final product with air and water reaching + 15°C. The pressure information reported on every article “P. max bar”, states for the maximum static pressure that our manholes and doors can bear. The accidental overcoming of the suitable pressure can also irreparably damage the product causing a loss of it. The suitable pressure doesn't consider the deformations caused by following welding phases of the product or by wrong effected assemblage, or even the product wrong application on substances which are not suitable for the right use of the product (see chart of resistance polymers). We recommend a correct maintenance and a periodic substitution of the elements which are always in contact with the liquid as guarantee of a good use of our manholes and during doors the years (see parts of exchange). Veneta Acciai Srl doesn't guarantee its products if the above mentioned instructions are not implemented by both manufacturer's plant or artifact, and by the end user.

MANNLOCHTÜREN UND KLAPPTÜREN

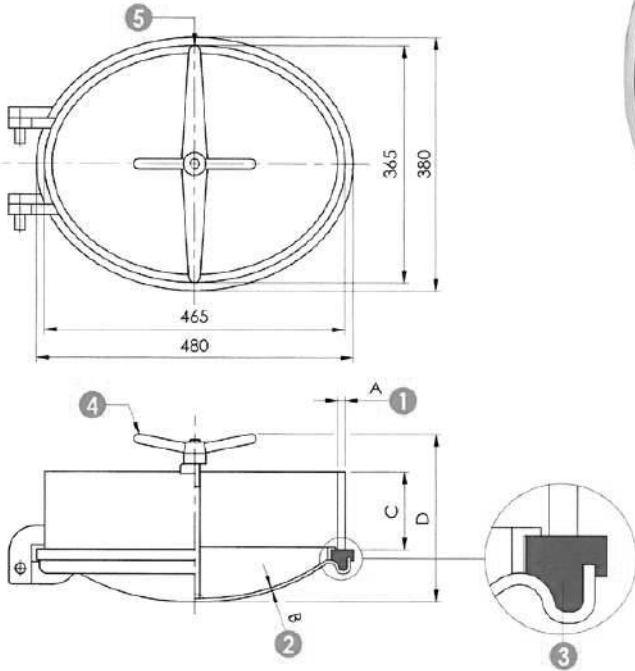
Die Firma NIOB FLUID stellt mit diesem neuen Katalog von Mannloch- und Klapptüren eine große Auswahl von Artikeln zur Verfügung, die von ihrer Qualität und ihrer Widerstandskraft gekennzeichnet sind. Wir geben hiermit einige grundsätzliche technische Hinweise, um eine immer mehr leistungsfähige Dienstleistung zu gewähren, wie folgt. Bei allen unseren Mannloch- und Klapptüren werden die Verschraubungen, die Pratzen und Ärmel, die nicht medienberührt sind, aus AISI 304 erzeugt. Die verwendeten Standard-Dichtungen sind aus einem Gummimaterial, welches für die Berührung mit nicht aggressiven Nahrungsmitteln bei einer Temperatur von max 50°C / min. 18°C geeignet ist. Auf Anfrage können wir Dichtungen in Viton, Silikon, NBR, EPDM und anderen Polymeren im Handel liefern. Es ist sehr wichtig, ein Polymer geeignet für das Produkt, das zu enthalten ist, zu bestimmen, da hier große Probleme mit der Temperatur oder mit der Komposition des Produkts entstehen können. Im Katalog gibt's dafür eine Tabelle, die grundsätzliche Angaben über die Gebrauchstemperatur und über die empfohlene Polymere enthält. Unsere Firma kann die Zertifikate nach FDA gewähren. Die Standard-Fertigbearbeitung des Rahmens ist gebeizt, sandstrahlt oder satiniert ($Ra \pm 1,6$) – Der Deckel ist glatt, mit einem Mittenrauhwert $Ra < 0,4$. Auf Anfrage können wir die Rahmen und die Deckel mit elektrischer Fertigbearbeitung oder mit glatter Fertigbearbeitung vom Mittenrauhwert $Ra < 0,8$ liefern. Die Druckdichtheitsprüfung, die Prüfungen der Ausdehnung und nachfolgender Berstversuch auf den Mannloch- und Klapptüren, die in diesem Katalog angeführt sind, wurden in der Prototyp-Phase des Produktes mit Luft und Wasser bei der Temperatur von + 15°C durchgeführt. Die Angabe über dem Druck, die auf jedem Artikel als “P. max bar” gezeichnet ist, zeigt den größten statischen Druck, den die Mannloch- und Klapptüre ertragen können. Eine auch zufällige Überschreitung des angegebenen Druckwertes kann das Produkt auf unersetzlicher Weise beschädigen und einen Verlust des Inhaltes verursachen. Der angegebene Druck beachtet nicht die mögliche Verziehen, die nachfolgend vom Schweißen verursacht sind, oder vom nicht richtigen Zusammenbau, sowie von der Anwendung des Produktes in den Anlagen oder mit den Substanzen, die für dieses nicht geeignet sind (Siehe Tabelle von Polymerenwiderstand). Als Garantie für einen guten Gebrauch von unseren Mannloch- und Klapptüren empfehlen wir eine richtige Wartung und einen periodischen Ersatz von den medienberührten Teilen (Siehe Ersatzteile). Die Firma Veneta Acciai übernimmt keine Gewährleistung bei nicht sachgerechter Verwendung oder Anwendung.vv

Oval manwaydoor inwards opening – PED
 Ovale Mannlochdeckel schwenkbar nach innen – PED

6001

340 x 440 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



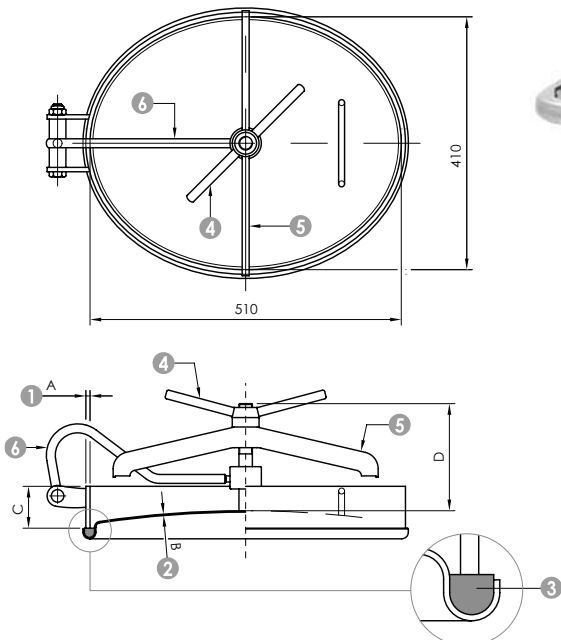
ART.	A	B	C	D	P. max bar	CER.
6001	12	5	120	265	10	PED
6001 R	8	3	80	225	6	-
6001 RB	8	3	80	225	6	-

Oval manwaydoor inwards opening
 Ovale Mannlochtür, Öffnung nach Innen

6003

410 x 510 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



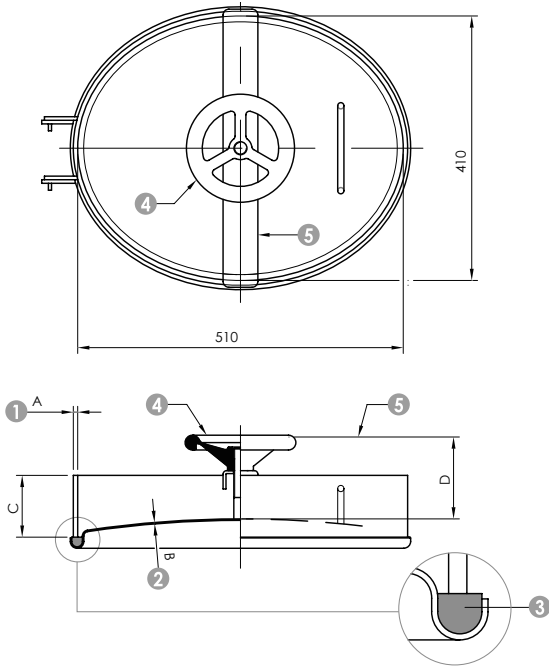
ART.	A	B	C	D	P. max bar
6003	10	3	80	160	6

Oval manwaydoor inwards opening
Ovale Mannlochtür, Öffnung nach Innen

6003 A

410 x 510 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



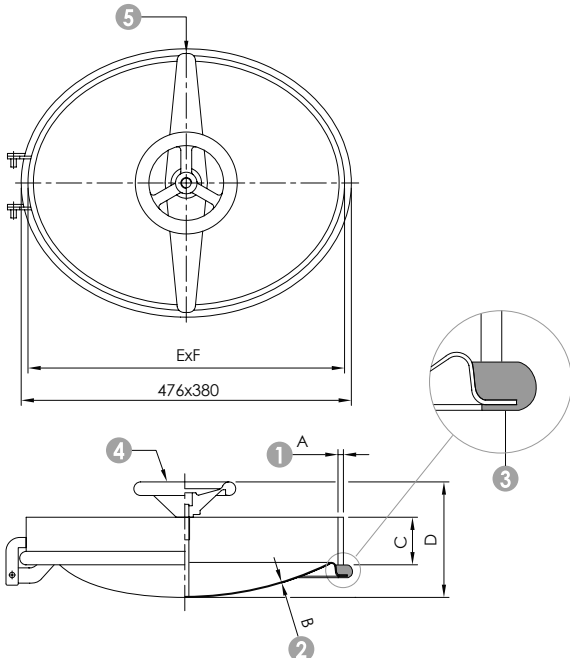
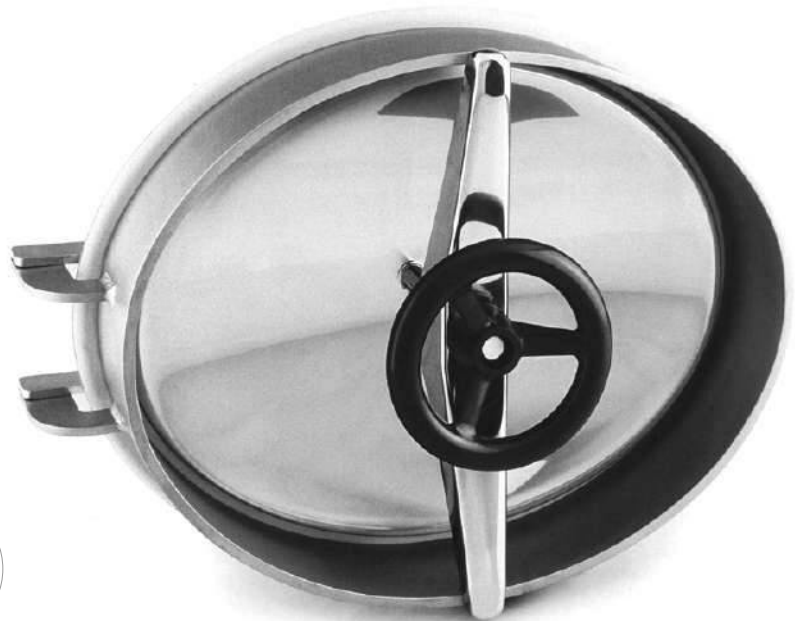
ART.	A	B	C	D	P. max bar
6003 A	10	3	80	~160	6

Oval manwaydoor inwards opening
Ovale Mannlochdeckel schwenkbar nach innen

6004

350 x 450 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	D	P. max bar
6004	8	2	80	175	3
6004 SUPER	12	3	80	175	4

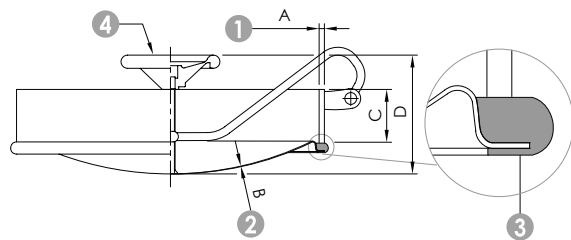
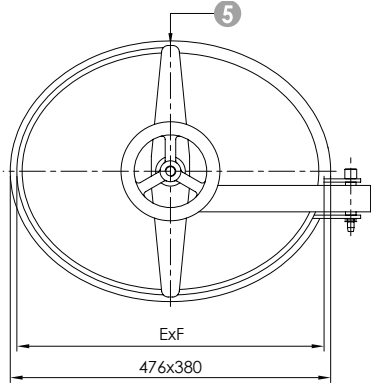
6004 B - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör

Oval manwaydoor inwards opening
Ovale Mannlochdeckel schwenkbar nach innen

6005

350 x 450 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	D	ExF	P. max bar
6005	8	2	80	175	468x374	3
6005 SUPER	12	3	80	175	474x380	4

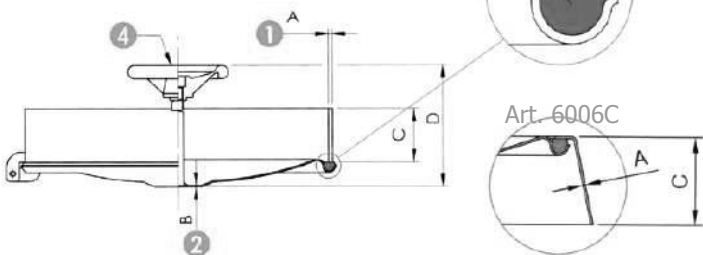
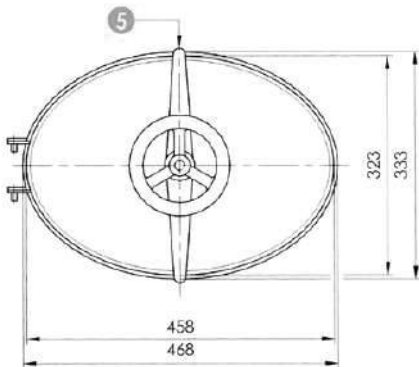
6005 B - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör

Oval manwaydoor inwards opening
Ovale Mannlochdeckel schwenkbar nach innen

6006

310 x 445 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	D	P. max bar
6006	6	2	60	120	2
6006 A	6	2	80	140	2
6006 SUPER	8	2	60	120	2
6006 A SUPER	8	2	80	140	2

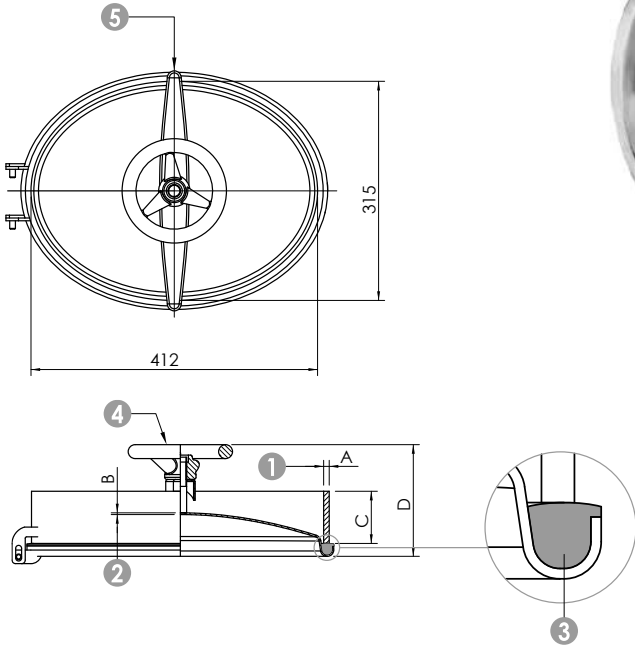
6006 B - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör

Oval manwaydoor inwards opening
Ovale Mannlochtür schwenkbar nach innen

6006 D

315 x 412 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



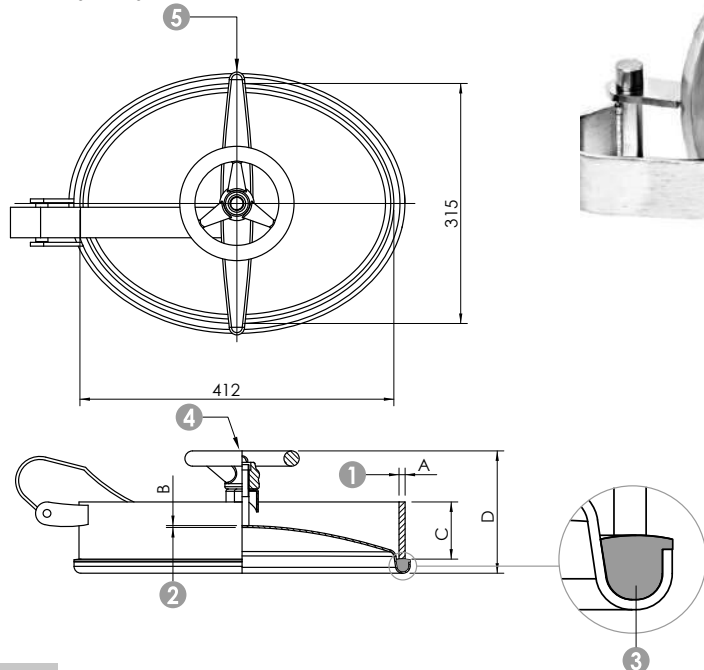
ART.	A	B	C	D	P. max bar
6006 D	8	2,5	75	160	4

Oval manwaydoor inwards opening
Ovale Mannlochtür schwenkbar nach innen

6006 D1

315 x 412 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



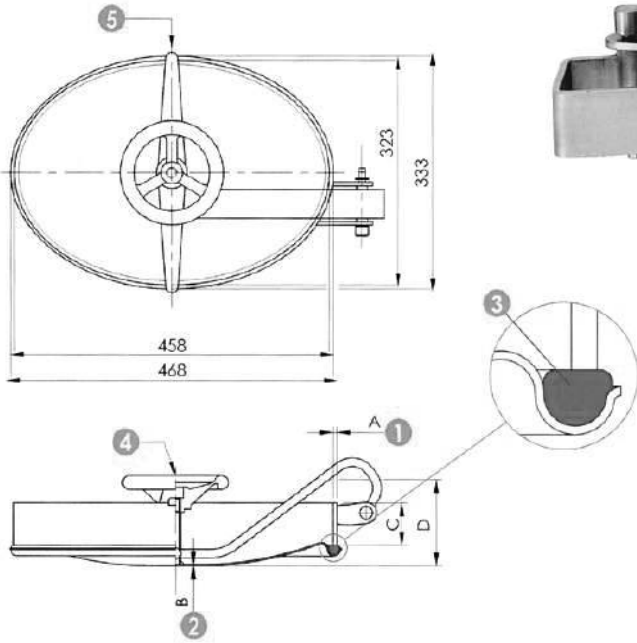
ART.	A	B	C	D	P. max bar
6006 D1	8	2,5	75	160	4

Oval manwaydoor inwards opening
Ovale Mannlochdeckel schwenkbar nach innen

6007

310 x 445 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



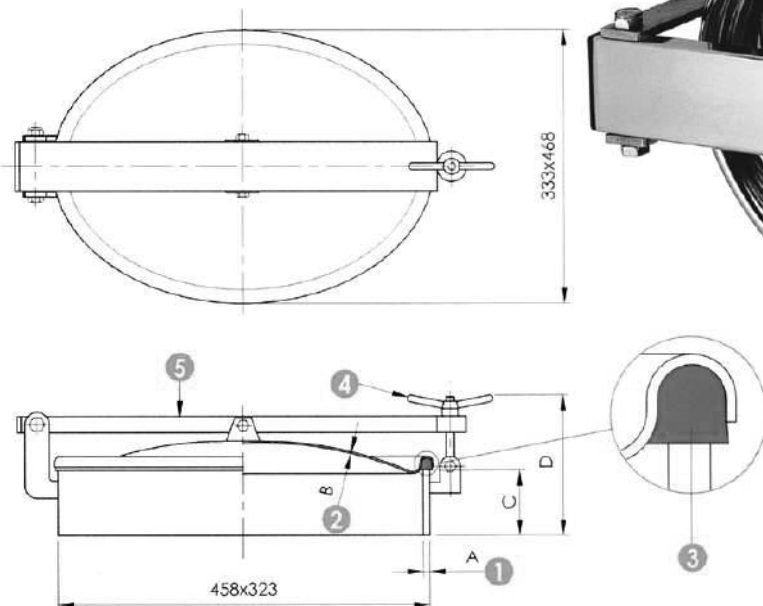
ART.	A	B	C	D	P. max bar
6007	6	2	60	120	2
6007 A	6	2	80	140	2
6007 SUPER	8	2	60	120	2
6007 A SUPER	8	2	80	140	2
6007 B - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör					

Oval manwaydoor outwards opening
Ovale Mannlochdeckel, Öffnung nach außen

6007 D

310 x 445 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



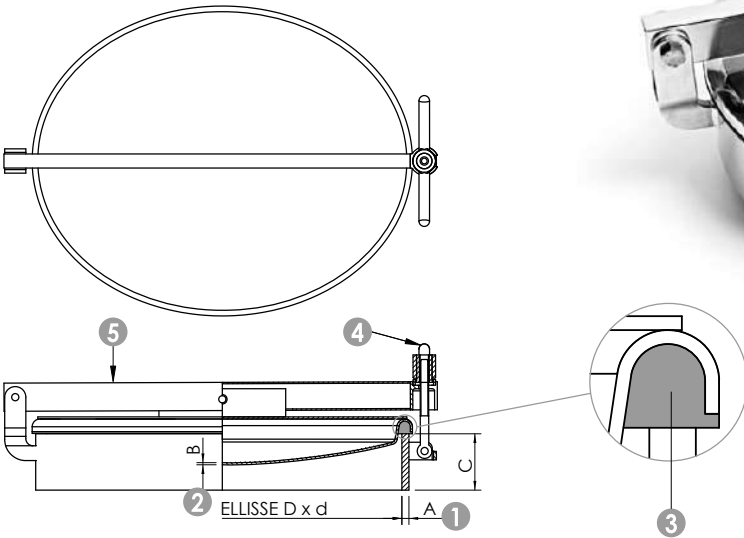
ART.	A	B	C	D	P. max bar
6007 D	6	2	80	195	0,1
6007 E - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör					

Oval manwaydoor outwards opening with insulated lid
 Ovale mannlochur Öffnung nach außen mit isolierterm Deckel

6007 G

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



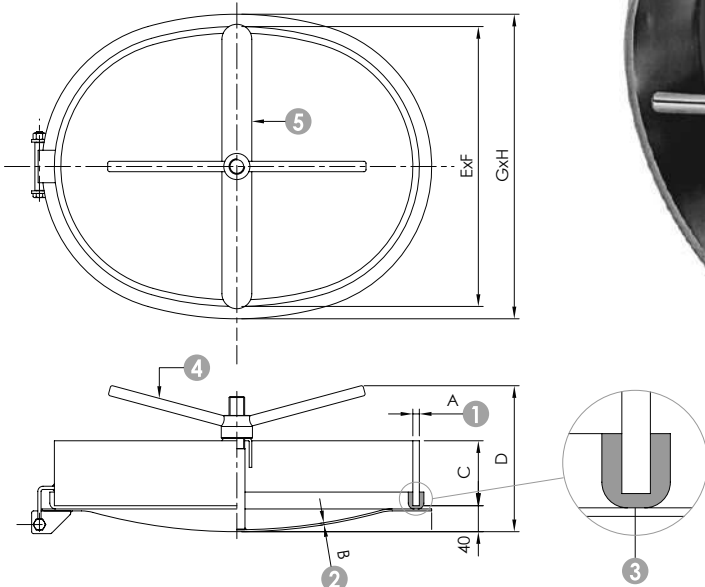
ART.	Dxd	LAYOUT	A	B	C	P. max bar	Vacuum bar
6007 G	412x315		8	2,5	75	0,3	-1
6007 GV	412x315		8	2,5	75	0,2	-1
6007 G1	510x410		10	3	80	0,1	-1
6007 G1V	510x410		10	3	80	0,08	-1

Oval manwaydoor inwards opening
 Ovale Mannlochdeckel schwenkbar nach innen

6007 P

410 x 540 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



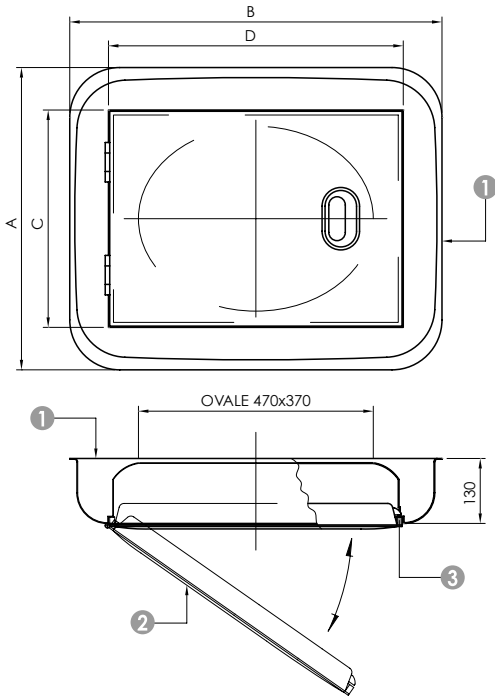
ART.	A	B	C	D	ExF	GxH	P. max bar
6007 P MINI	6	3	80	170	458x323	475x345	1,5
6007 P MAXI	10	3	100	210	562x431	610x479	1,2
6007 P MAXI SUPER	10	4	100	210	562x431	610x479	1,8

Cover portela for insulation
Deckel - Tür zur Isolierung

6007 F

435 x 590 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung



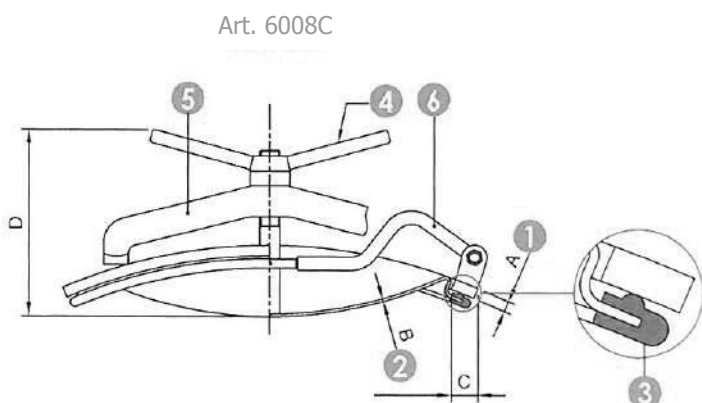
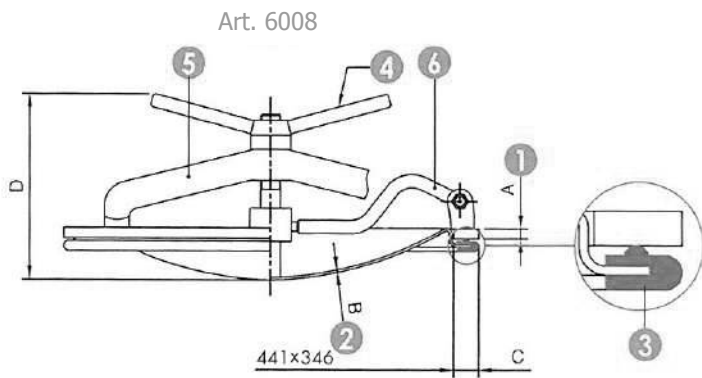
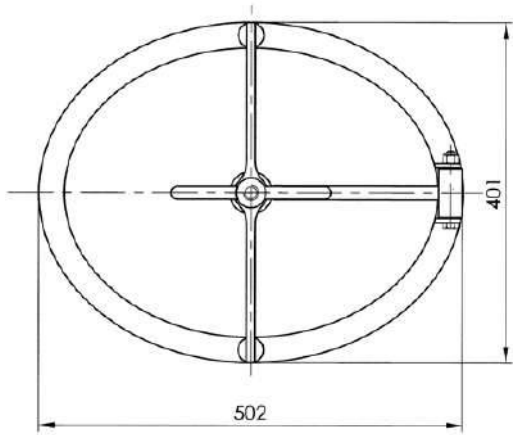
ART.	A	B	C	D
6007 F	605	745	435	590

6008

Oval manwaydoor inwards opening
Ovale Mannlochdeckel schwenkbar nach innen

340 x 440 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - arm - arm



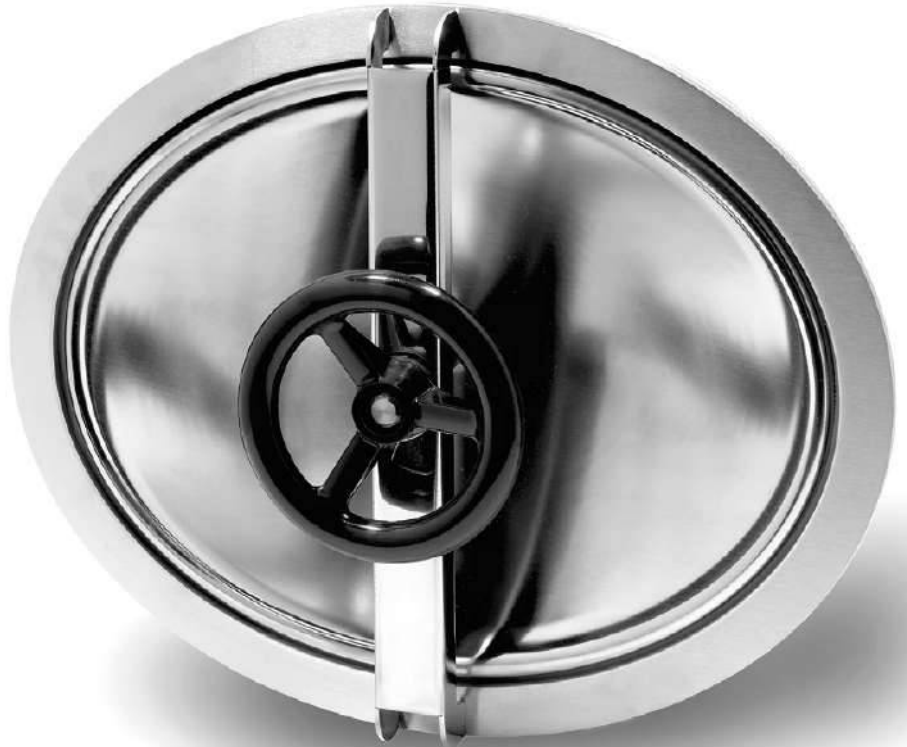
ART.	A	B	C	D	P. max bar
6008	12	3	30	230	4
6008 C	Radius on demand for various tank diametres min. Ø 1300				

6008 ECO

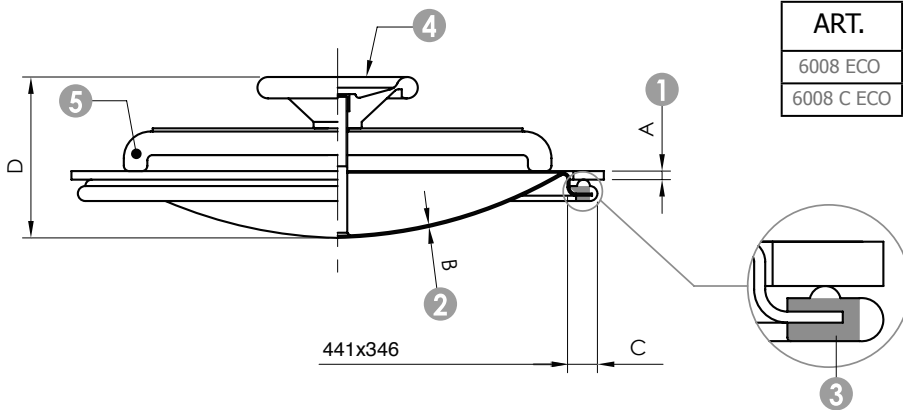
Oval manwaydoor inwards opening
Ovale Mannlochtür, Öffnung nach Innen

340 x 440 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm

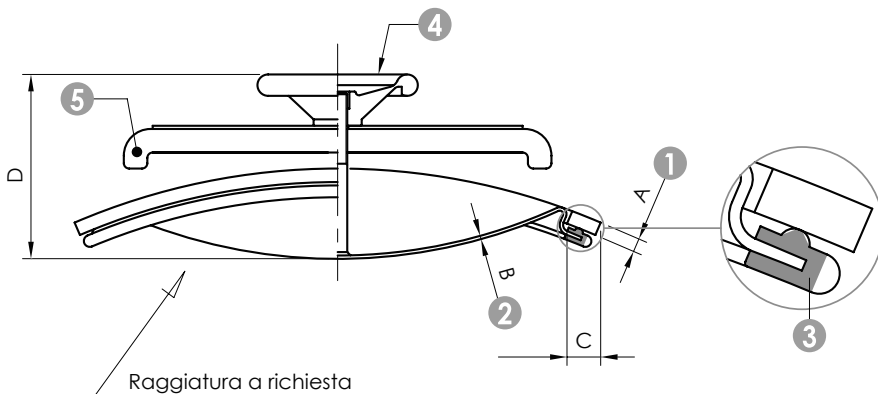


Art. 6008 ECO



ART.	A	B	C	D	P. max bar
6008 ECO	8	2	30	~ 150	2,5
6008 C ECO	Radius on demand for various tank diametres min. Ø 1300				

Art. 6008C ECO

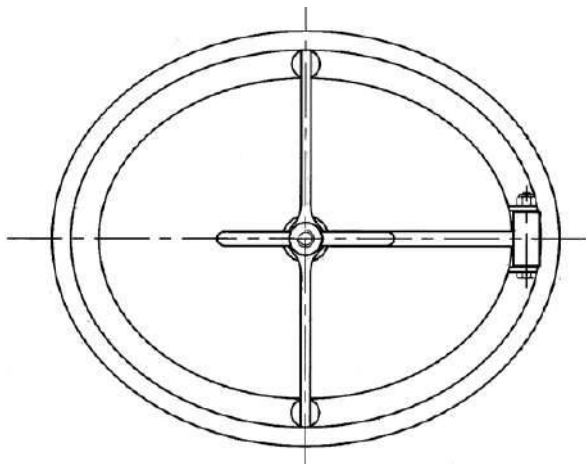


Oval manwaydoor inwards opening
 Ovale Mannlochdeckel schwenkbar nach innen

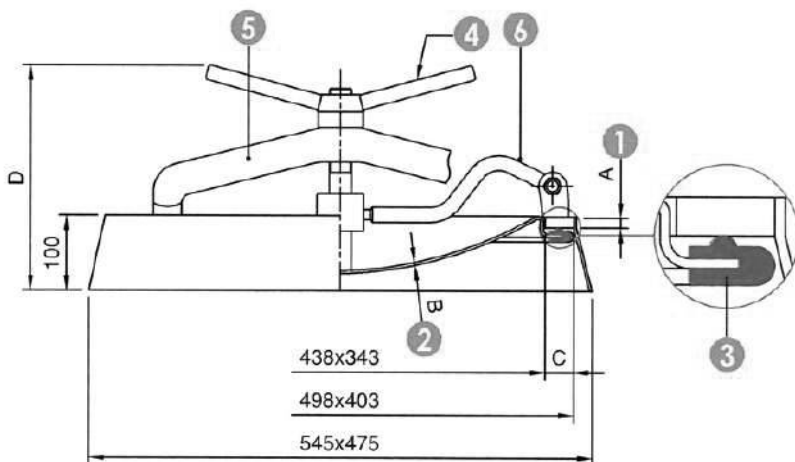
6009 A

340 x 440 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - nimble arm - schwenkarmatur



ART.	A	B	C	D	P _{max} bar
6009 A	3	3	30	230	4

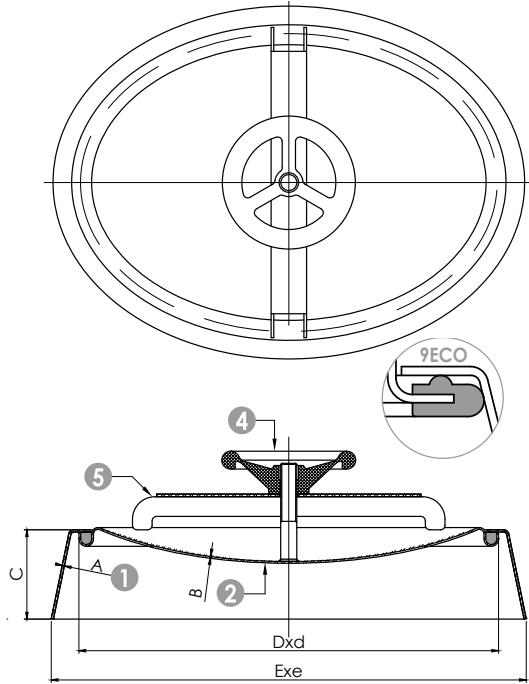


Oval manwaydoor inwards opening
Ovale Mannlochtür, Öffnung nach Innen

6009 ECO

340 x 440 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



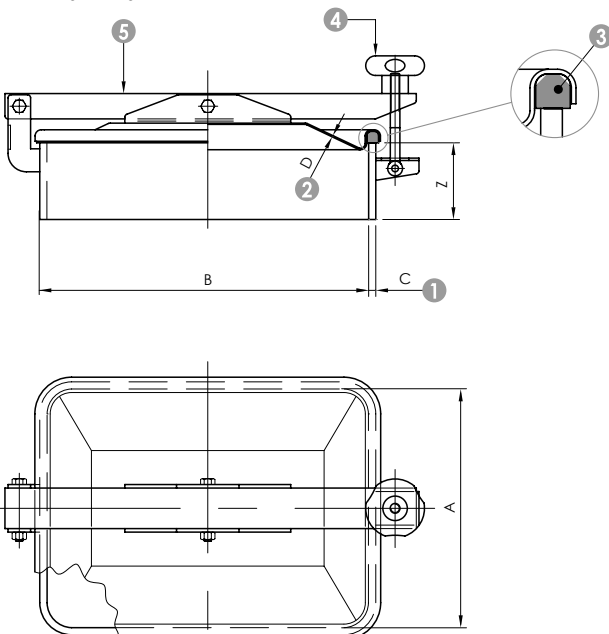
ART.	A	B	C	Dxd	Exe	P. max bar
6009 ECO	3	2	30	441x346	545x465	2,5

Rectangular manwaydoor outwards horizontal opening
Rechteckige Mannlochdeckel, waagerechte außen Öffnung

6009 H

175 x 225 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



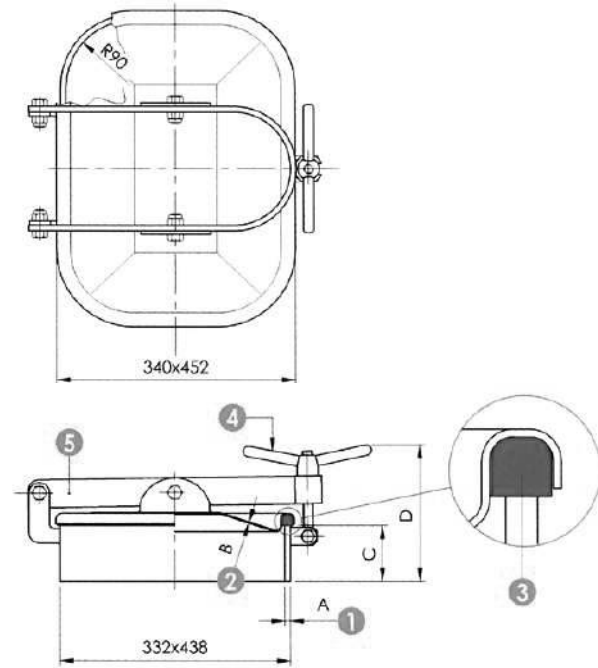
ART.	A	B	C	D	P. max bar
6009 H	175	225	6	50	0,5
6009 H-1	246	313	6	50	0,4
6009 H-2	275	365	6	50	0,2
6009 H-3	275	405	6	50	0,1

Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

6010

310 x 420 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	D	P. max bar
6010	8	2	80	200	0,5
6010 B - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör					

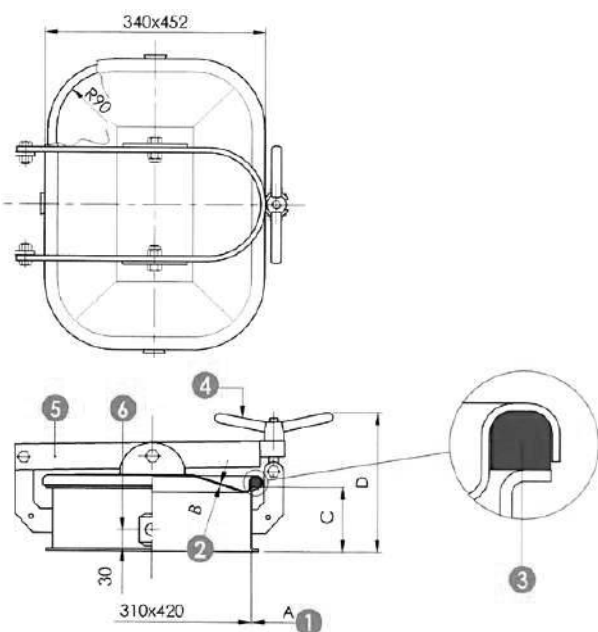
Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

Frame for concrete vats
Für Betonfässer

6010 CM

310 x 420 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - stirrup - bügel



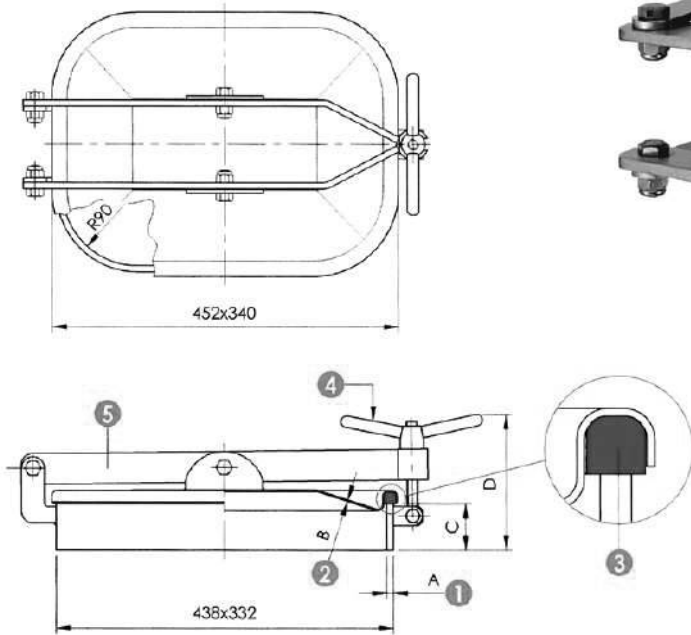
ART.	A	B	C	D	P. max bar
6010 CM	3	2	100	216	0,5

Rectangular manwaydoor outwards horizontal opening
 Rechteckige Mannlochdeckel, waagerechte außen Öffnung

6010 E

310 x 420 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



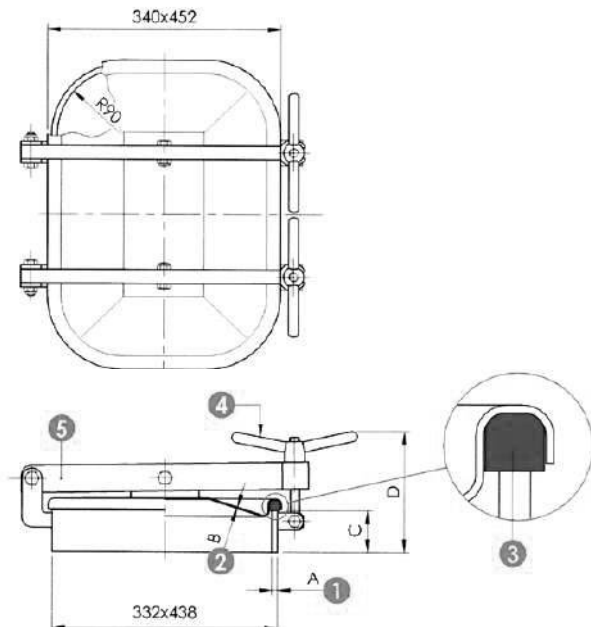
ART.	A	B	C	D	P. max bar
6010 E	8	2	80	200	0,5

Rectangular manwaydoor outwards opening
 Rechteckige Mannlochdeckel, Öffnung nach außen

6010 G

310 x 420 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	D	P. max bar
6010 G	10	2	60	200	0,7

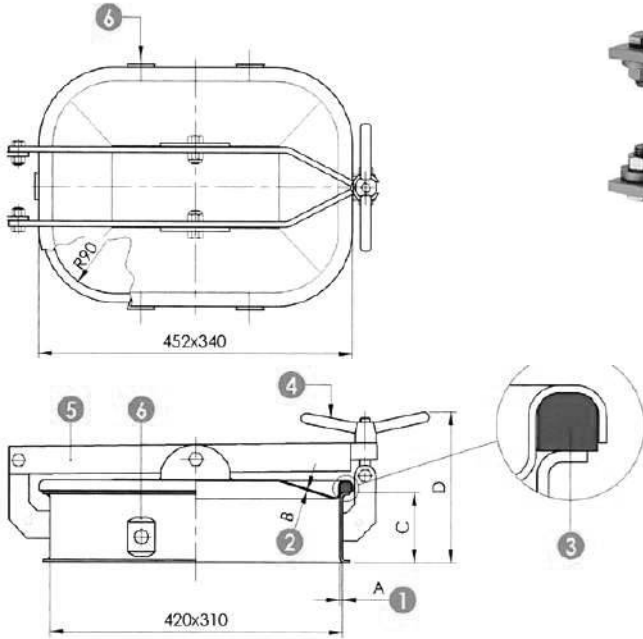
Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

Frame for concrete vats
Für Betonfässer

6010 LCM

310 x 420 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - stirrup - bügel



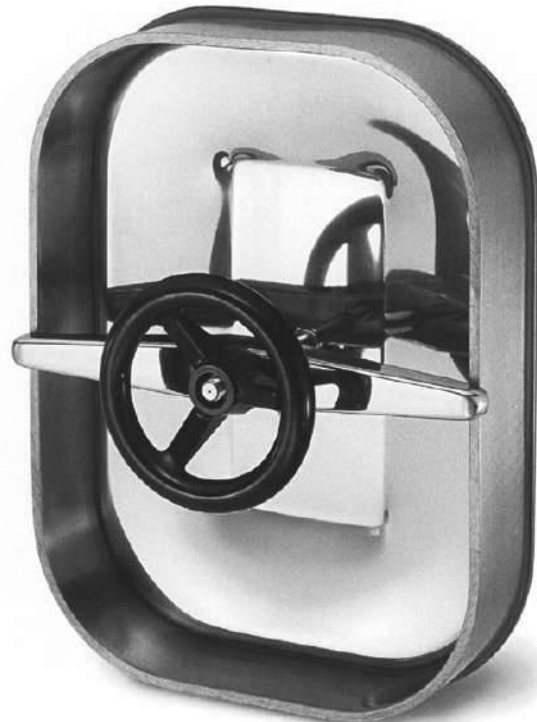
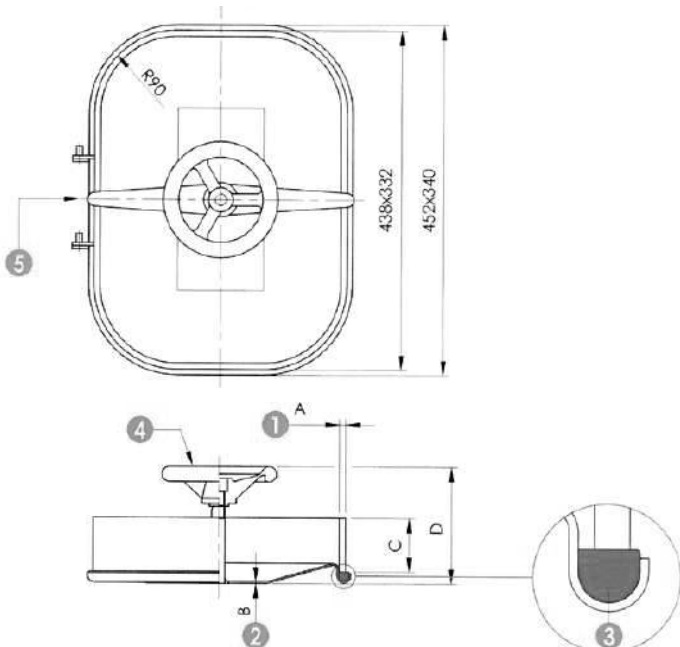
ART.	A	B	C	D	P. max bar
6010 LCM	3	2	100	196	0,5

Rectangular manwaydoor inwards opening
Rechteckige Mannlochdeckel, Öffnung nach innen

6011

310 x 420 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	D	P. max bar
6011	8	2	80	150	1
6011 B - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör					

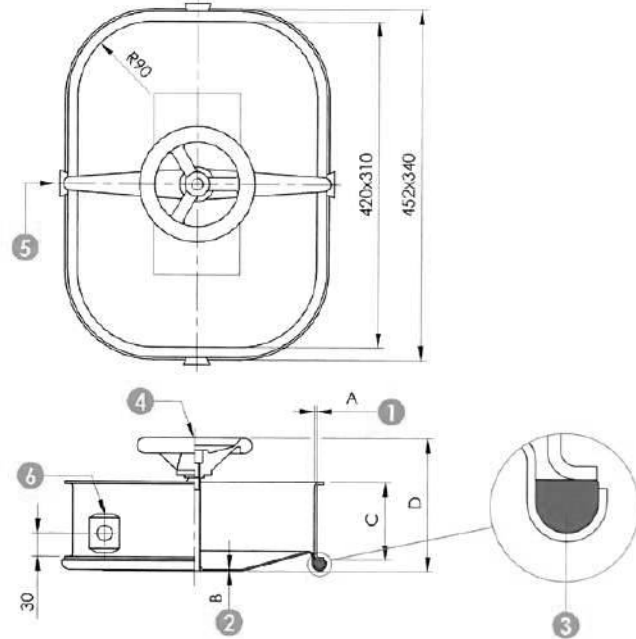
Rectangular manwaydoor inwards opening
Rechteckige Mannlochdeckel, Öffnung nach innen

Frame for concrete vats
Für Betonfässer

6011 CM

310 x 420 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - stirrup - bügel

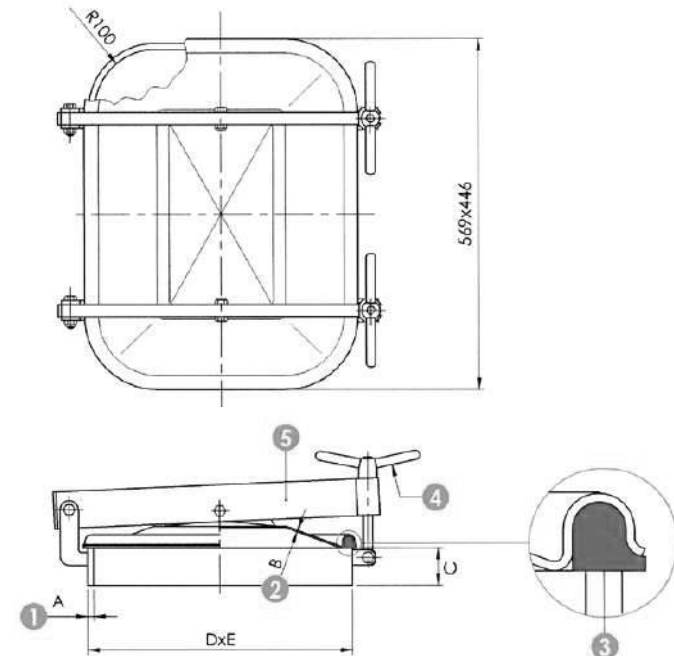


ART.	A	B	C	D	P. max bar
6011 CM	3	2	100	170	1

Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

410 x 530 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



6012

ART.	A	B	C	D	E	P. max bar
6012	10	2,5	60	432	555	0,6
6012 A	10	2,5	100	432	555	0,6
6012 super	12	2,5	60	432	555	0,8
6012 A super	12	2,5	100	432	555	0,8

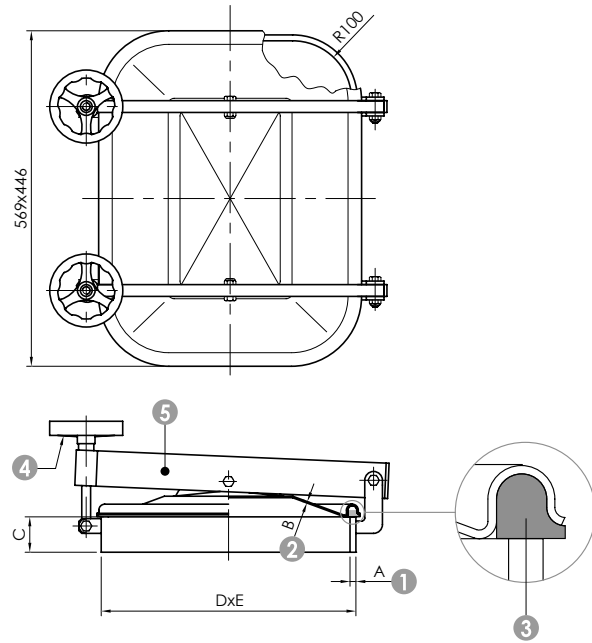
6012 B - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör

Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

6012 ECO

410 x 530 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	D	E	P. max bar
6012 ECO1	8	2	60	432	555	0,4
6012 ECO2	8	2	100	432	555	0,4

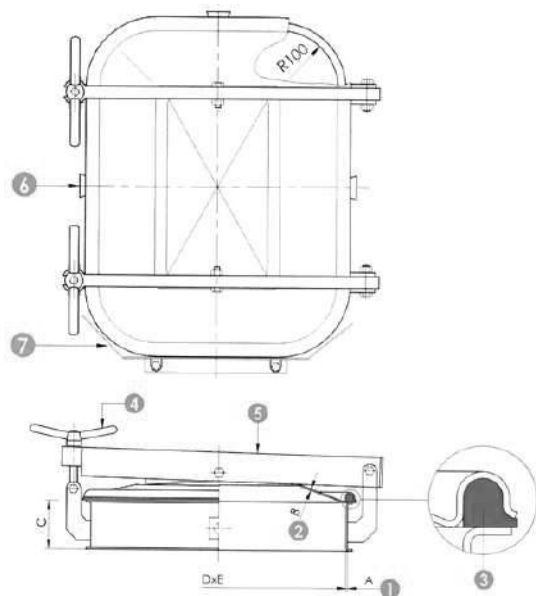
Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

Frame for concrete vats
Für Betonfässer

6012 CM

410 x 530 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - stirrup - bügel
- ⑦ - protection - schutz - покрытие

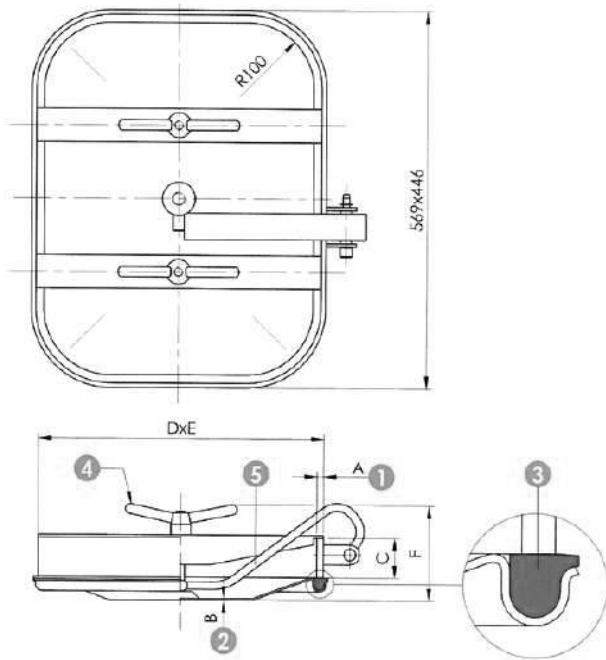


ART.	A	B	C	D	E	P. max bar
6012 CM	3	2	70	414	526	0,4

Rectangular manwaydoor inwards opening
Rechteckige Mannlochdeckel, Öffnung nach innen

410 x 530 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



6012 E

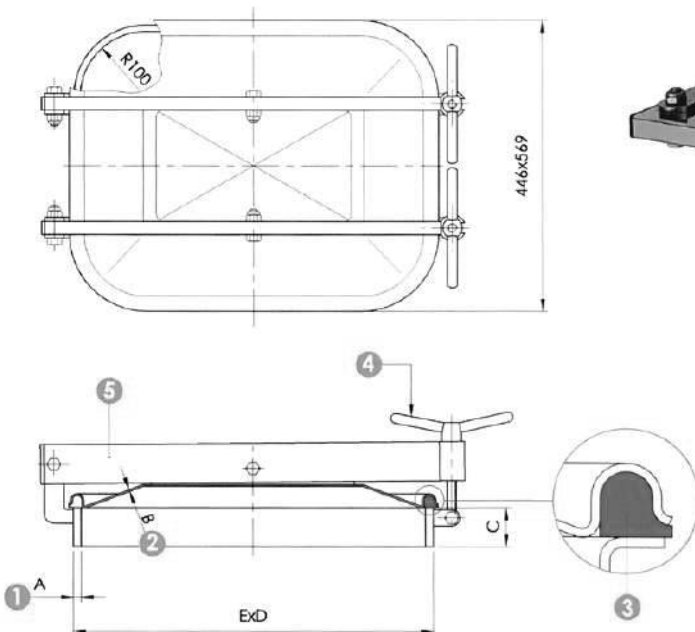
ART.	A	B	C	D	E	F	P. max bar
6012 E	10	2,5	60	432	555	160	1,2
6012 E1	10	2,5	100	432	555	200	1,2
6012 E super	12	2,5	60	432	555	160	1,2
6012 E1 super	12	2,5	100	432	555	200	1,2

6012 F - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör

Rectangular manwaydoor outwards horizontal opening
Rechteckige Mannlochdeckel, waagerechte außen Öffnung

410 x 530 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



6013

ART.	A	B	C	D	E	P. max bar
6013	10	2,5	60	432	555	0,6
6013 A	10	2,5	100	432	555	0,6
6013 super	12	2,5	60	432	555	0,8
6013 A super	12	2,5	100	432	555	0,8

6013 B - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör

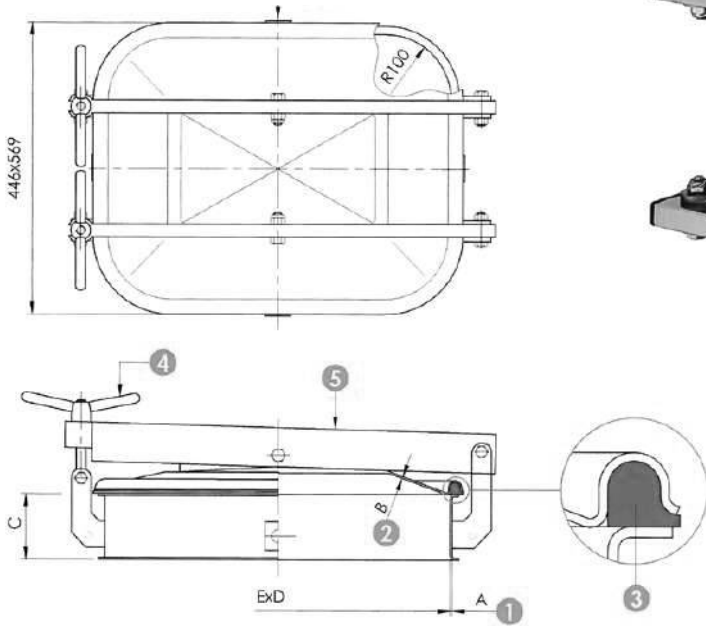
Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

Frame for concrete vats
Für Betonfässer

6013 CM

410 x 530 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



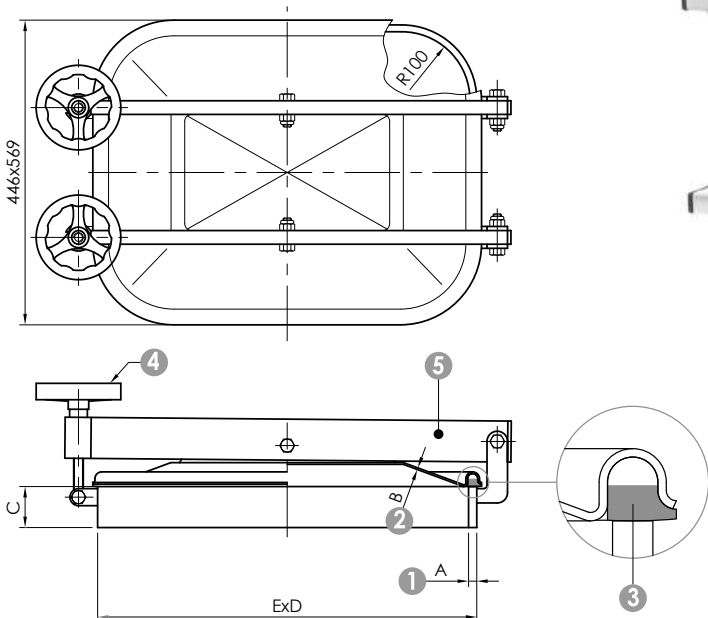
ART.	A	B	C	D	E	P. max bar
6013 CM	3	2	70	414	526	0,4

Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

6013 ECO

410 x 530 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



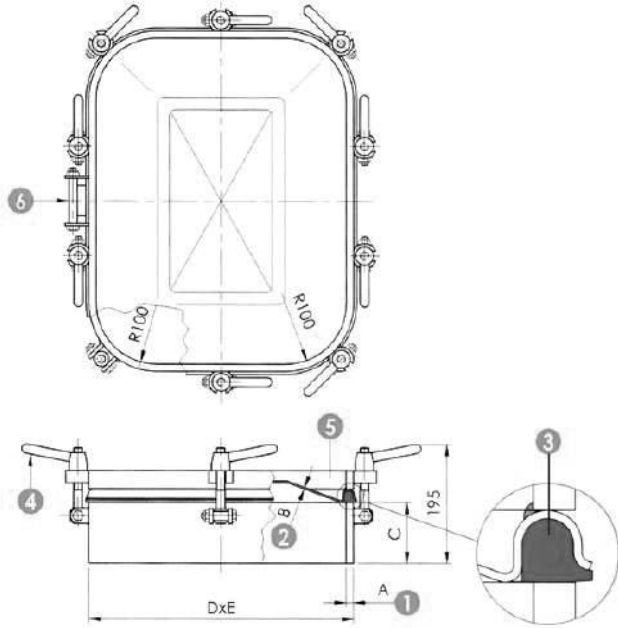
ART.	A	B	C	D	E	P. max bar
6013 ECO1	8	2	60	432	555	0,4
6013 ECO2	8	2	100	432	555	0,4

Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

6014

410 x 530 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - stirrup - bügel



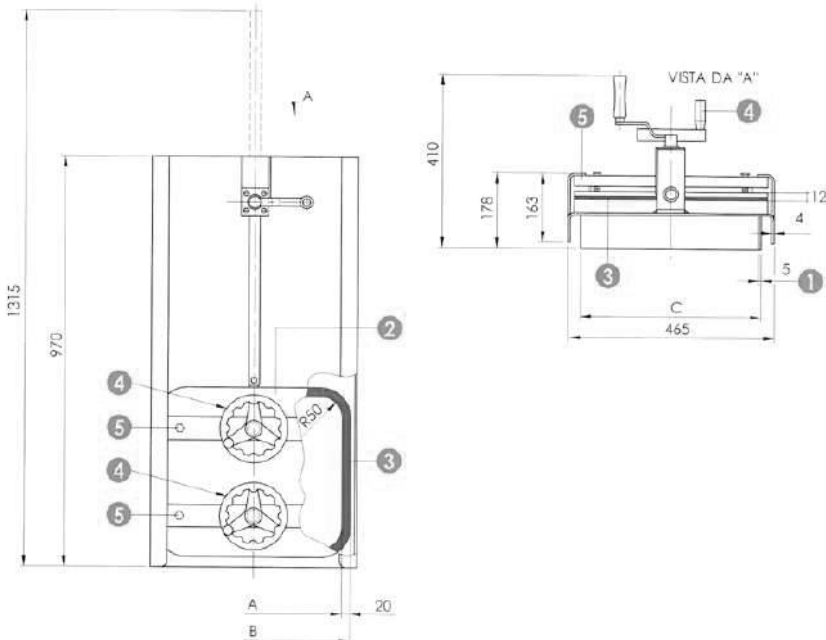
ART.	A	B	C	D	E	P. max bar
6014	12	2,5	100	432	555	4

Rectangular manwaydoor vertical guillotine opening
Rechteckige Mannlochdeckel, Öffnung nach Guillotine

6015

350 x 400 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	P. max bar
6015	415 x 360	455 x 400	425 x 370	1

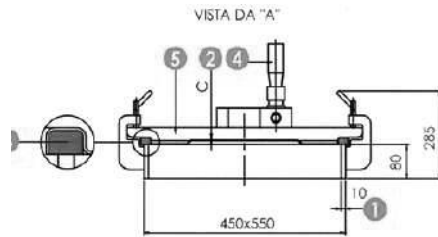
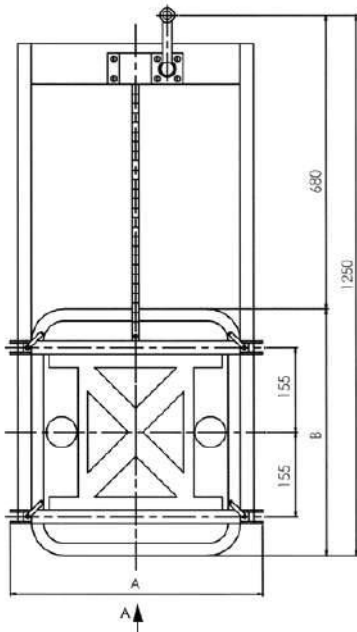
6015 A - Manual or pneumatic opening Manuelle oder pneumatische Öffnung

Manwaydoor vertical guillotine opening
Mannlochdeckel Öffnung nach Guillotine

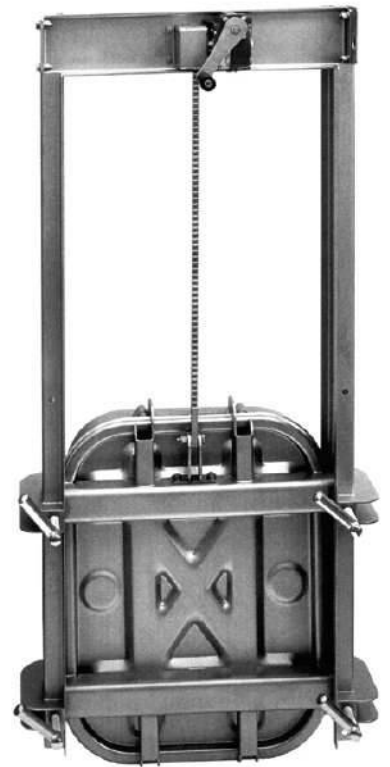
6015 B

430 x 530 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	P. max bar
6015 B	560	570	1,5	1
6015 B1 - Manual or pneumatic opening / Manuelle oder pneumatische Öffnung				

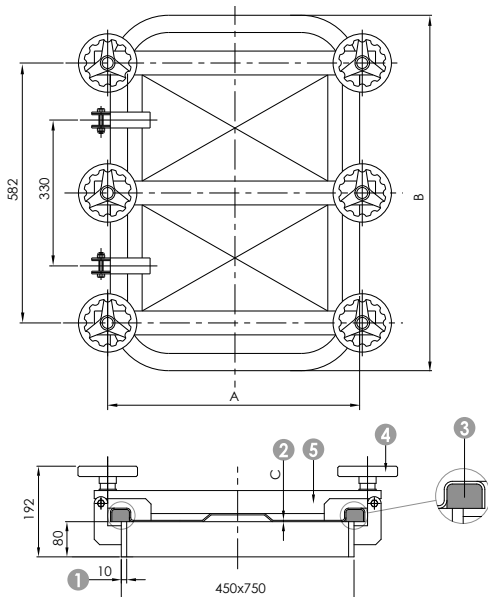


Rectangular manwaydoor outwards opening
Rechteckige Mannlochdeckel, Öffnung nach außen

6015 C

430 x 730 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



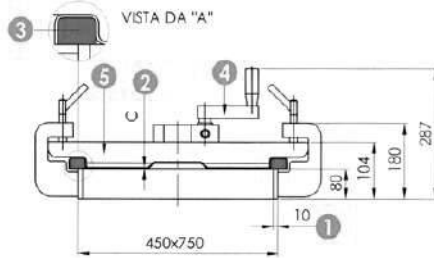
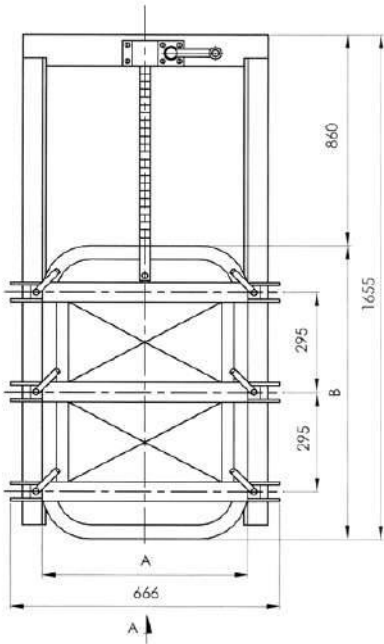
ART.	A	B	C	P. max bar
6015 C	490	780	2,0	1

Manwaydoor vertical guillotine opening
Mannlochdeckel Öffnung nach Guillotine

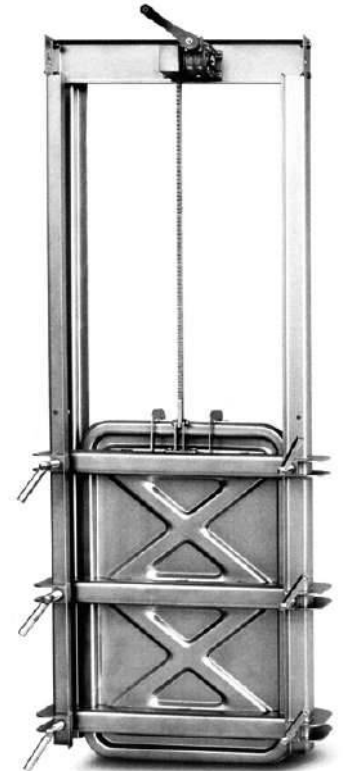
6015 E

430 x 730 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	P _{bet} max
6015	505	795	2	1
6015 E1 - Manual or pneumatic opening / Manuelle oder pneumatische Öffnung				

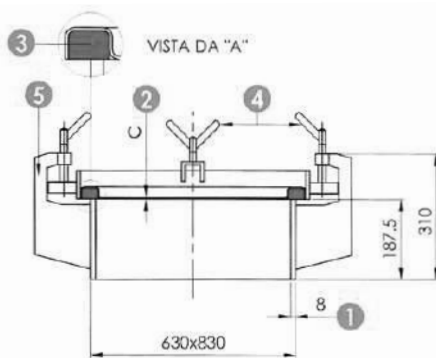
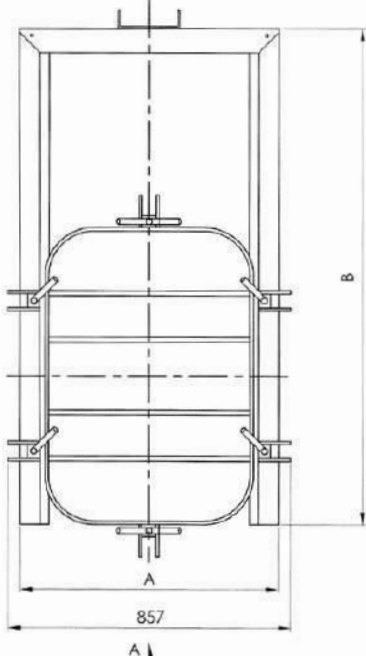


Manwaydoor vertical guillotine opening
Mannlochdeckel Öffnung nach Guillotine

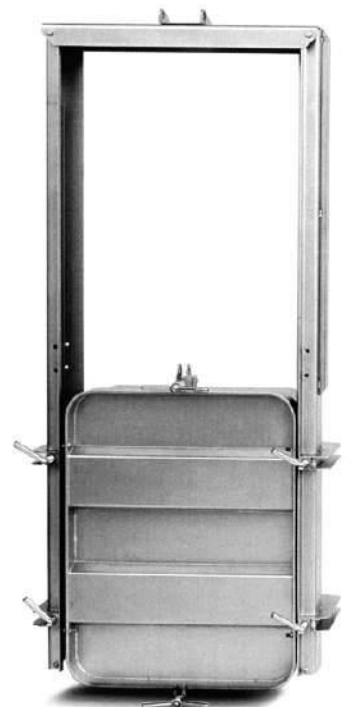
6015 G

610 x 810 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	P _{bet} max
6015 G	750	1880	2	1
6015 G1 - Manual or pneumatic opening / Manuelle oder pneumatische Öffnung				

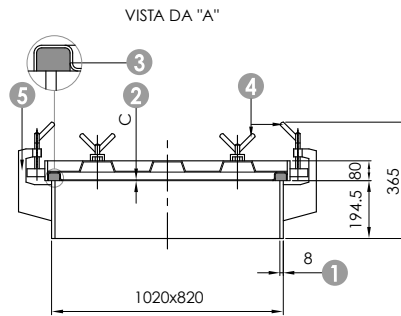
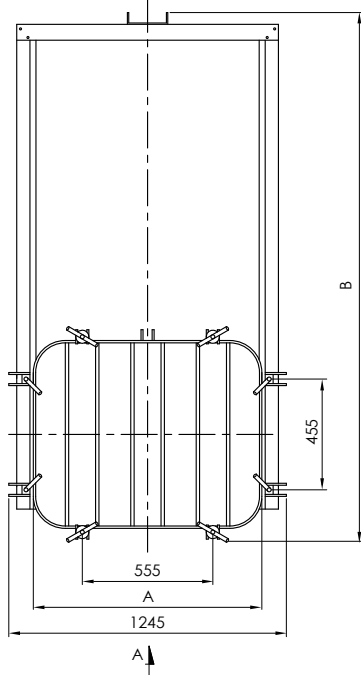


Manwaydoor vertical guillotine opening
Mannlochdeckel Öffnung nach Guillotine

6015 L

800 x 1000 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	A	B	C	P. max bar
6015 L	1055	2000	2	1
6015 L1 - Manual or pneumatic opening / Manuelle oder pneumatische Öffnung				



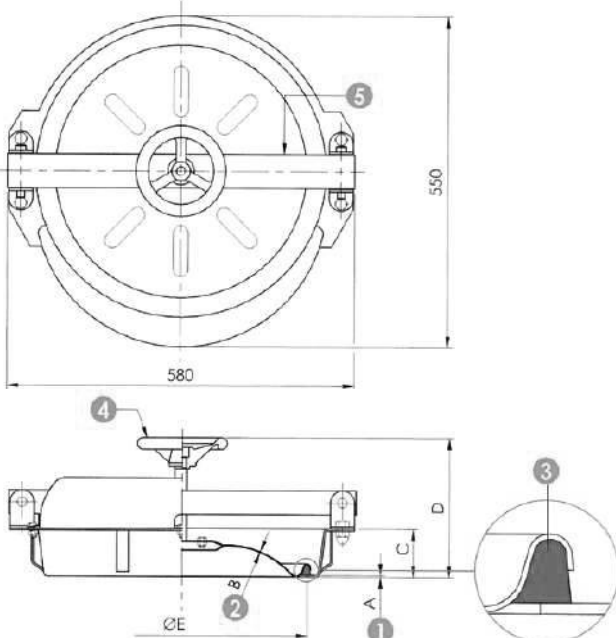
Round manwaydoor
Runde Tür

Frame for concrete vats
Für Betonfässer

6016

∅ 420 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



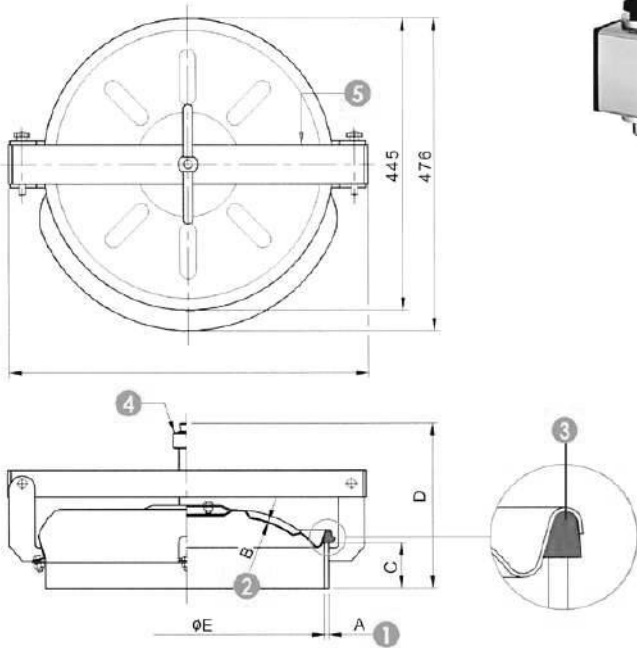
ART.	A	B	C	D	E	P. max bar
6016	3	2	80	230	420	0,4

Round manwaydoor outwards opening
Runde Tür, Öffnung nach außen

6017

∅ 420 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



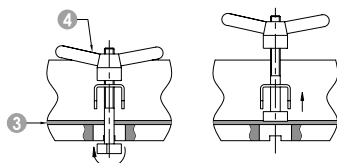
ART.	A	B	C	D	E	P. max bar
6017	8	2	80	150	420	0,5
6017 super	12	2	80	150	420	0,7

Round manwaydoor outwards opening for tankers
Runde Tür, Öffnung nach außen, für Tankwagen

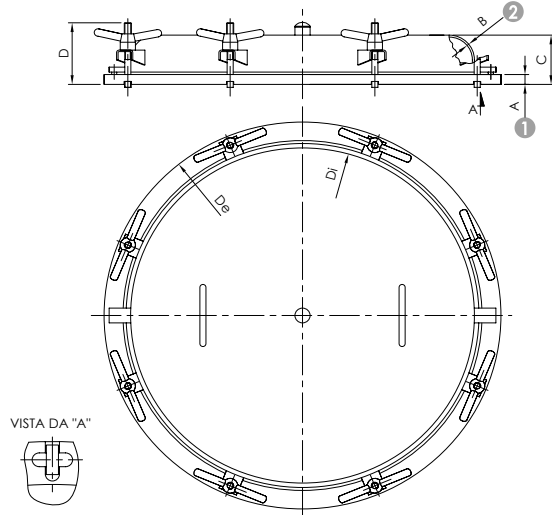
6017 C

AISI 304/L - 316/L

- ① - frame - kragen
- ② - cover - deckel
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift



detail of unhooking/detail des Auslösung



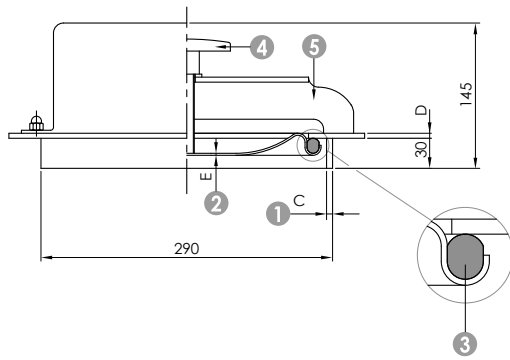
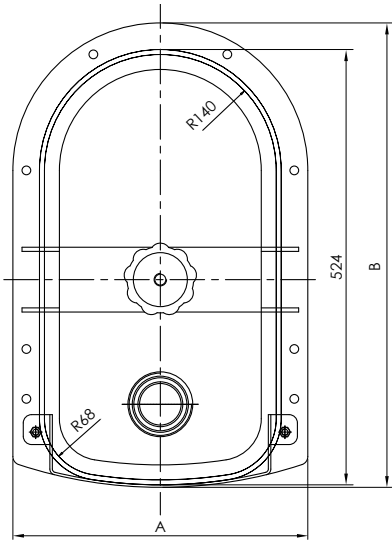
ART.	A	B	C	D	Di	De	P. max bar	Vacuum bar
6017C1	18	4	100	165	900	1016	2	-1
6017C2	18	4	100	165	680	785	4	-1

Manwaydoor with flange for fixing on wood
 Mannlochtür mit Flanch für Holztank

6018 F

240 x 470 mm **AISI 304 - 316L**

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



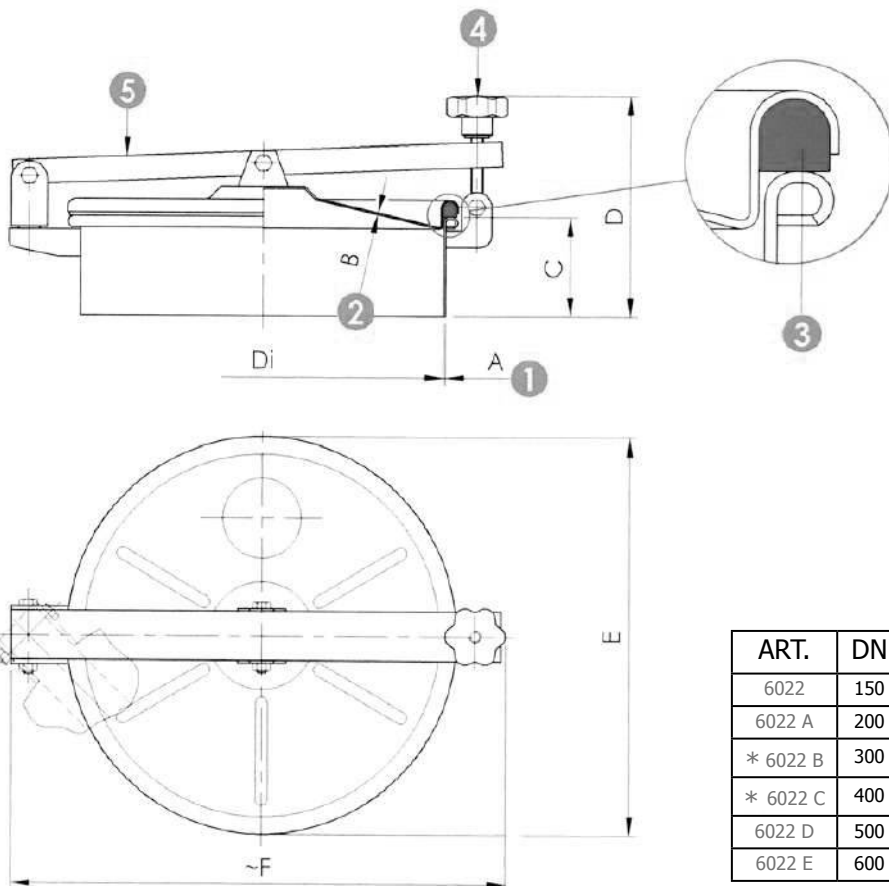
ART.	A	B	C	D	E	P _{bar} max
6018 F	355	560	6	5	2	0,5

Round manhole cover side-swing opening and back side opening
Runde Klaptür, Deckel seitlich schwenkbar

6022

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



ART.	DN	Di	A	B	C	D	E	F	P. max bar
6022	150	145	2	1,5	80	164	256	259	0
6022 A	200	220	2	1,5	80	172	240	328	0
* 6022 B	300	299	2	1,5	80	180	322	420	0
* 6022 C	400	394	2	1,5	80	180	420	514	0
6022 D	500	499	2	1,5	80	202	526	620	0
6022 E	600	598	2	1,5	80	180	630	720	0

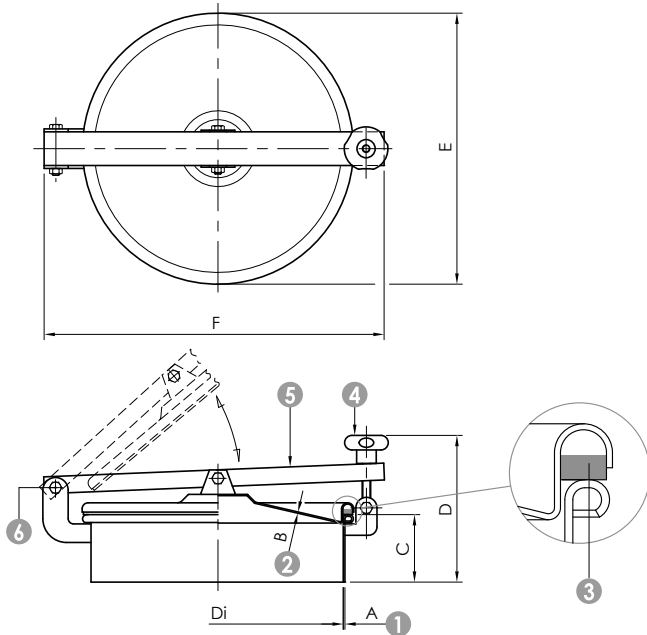
* Ribbing and valve seat for DN 300 and 400 only
Rippen und Ventilsitz (nur DN 300 und DN 400)

Round manhole cover back-side opening
Runde Klaptür, vertikale Öffnung

6022 ECO

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - stirrup - bügel



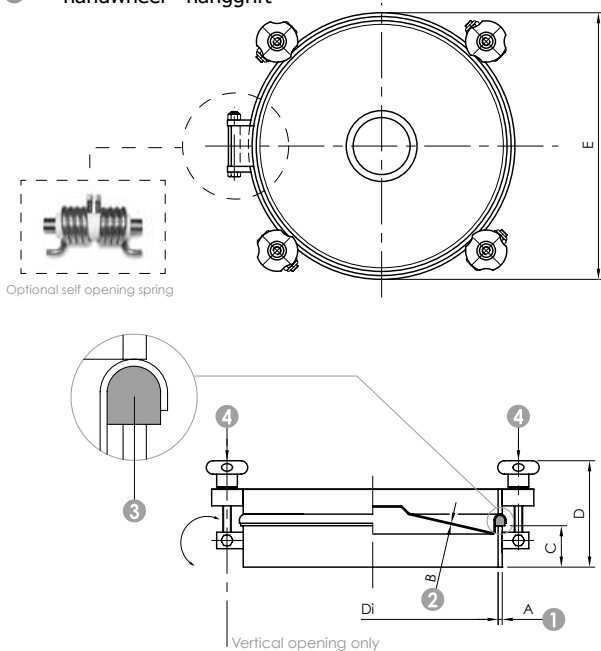
ART.	DN	Di	A	B	C	D	E	F	P. max bar
6022 A ECO	200	220	2	1,5	60	153	240	328	0
6022 B ECO	300	299	2	1,5	60	160	322	410	0
6022 C ECO	400	394	2	1,5	60	173	420	514	0
6022 D ECO	500	499	2	1,5	60	175	526	630	0
6022 E ECO	600	598	2	1,5	60	168	630	725	0

Round manwaydoor outwards opening for tankers
Runde Tür, Öffnung nach außen, für Tankwagen

6023

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift



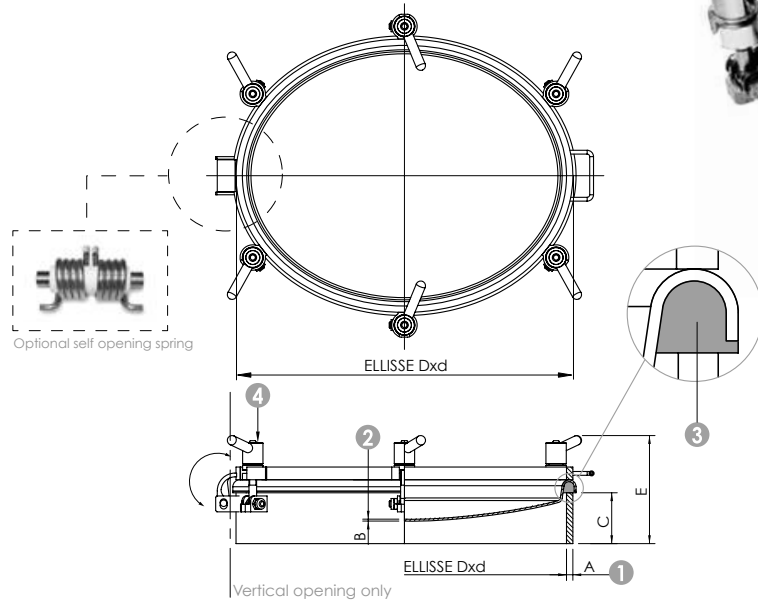
ART.	DN	Di	A	B	C	D	E	Nº ④	P. max bar	Vacuum bar
6023 A	200	220	8	1,5	60	136	240	3	3	-0,5
6023 B	300	300	8	1,5	60	136	321	4	3	-0,5
6023 C	400	398	8	1,5	60	137	420	5	1,5	-0,5
6023 D	500	500	8	1,5	60	136	526	6	1,5	-0,5
6023 E	600	600	8	1,5	60	144	630	7	1	-0,3

Round ovale manhole with peripheral closings
Ovale Mannloch mit Kunststoffgriffen

6023 F

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift



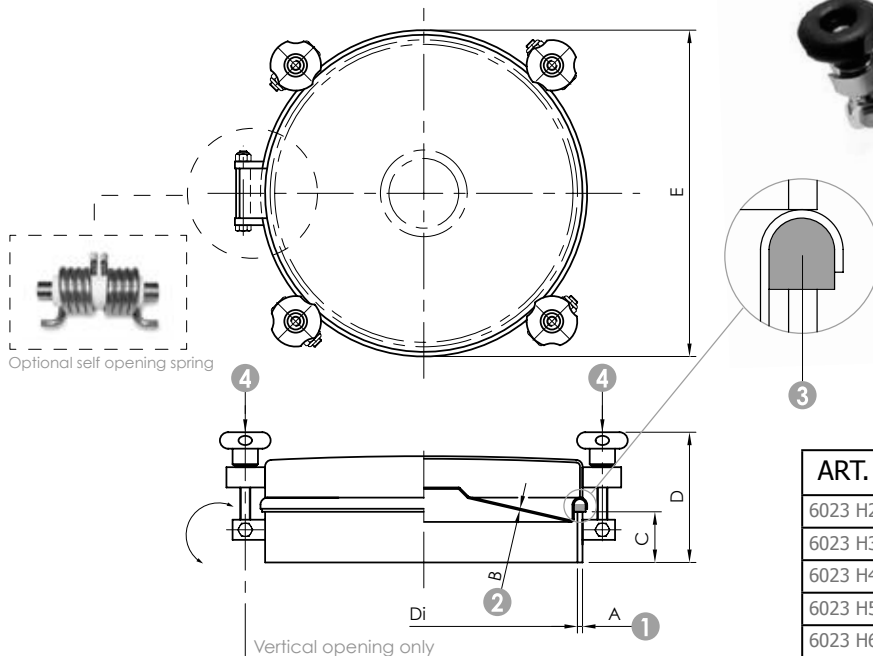
ART.	Dxd	A	B	C	E	N ^o ④	P. max bar	Vacuum bar
6023 F1	412x315	8	2,5	75	165	6	4	-1
6023 F2	510x410	10	3	80	170	8	3	-1

Round manhole with insulated lid
Runde Klapptür, mit isoliertem Deckel

6023 H

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift



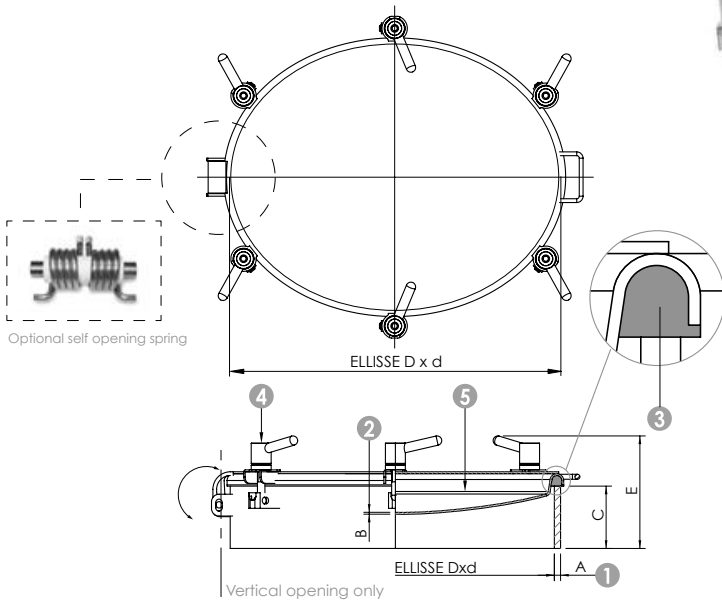
ART.	DN	Di	A	B	C	D	E	N ^o ④	P. max bar	Vacuum bar
6023 H2	200	220	8	1,5	60	135	240	3	3	-0,5
6023 H3	300	300	8	1,5	60	135	321	4	3	-0,5
6023 H4	400	398	8	1,5	60	136	420	5	1,5	-0,5
6023 H5	500	500	8	1,5	60	165	526	6	1,5	-0,5
6023 H6	600	600	8	1,5	60	165	630	7	1	-0,3

Round ovale manhole with insulated lid
Ovale Mannloch mit isoliertem Deckel
с изолированной крышкой

6023 H10/11

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - handgrift
- ⑤ - insulation - isolierung



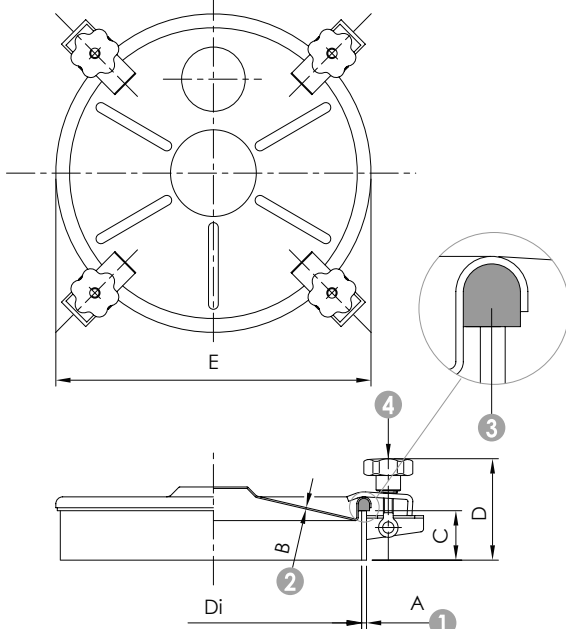
ART.	Dxd	A	B	C	E	P. max bar	Vacuum bar
6023 H10	412x315	8	2,5	75	165	4	-1
6023 H11	510x410	10	3	85	170	3	-1

Round manhole with peripheral closings
Runde Klapptür, mit Spannvorrichtungen

6024

50 x 5 AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - handgrift



ART.	DN	Di	A	B	C	D	E	Nº ④	P. max bar	Vacuum bar
6024 A	200	223	5	1,5	50	103	300	3	0,1	-0,5
*6024 B	300	304	5	1,5	50	103	381	3	0,1	-0,5
*6024 C	400	398	5	1,5	50	103	420	4	0,1	-0,5
6024 D	500	500	5	1,5	50	111	526	5	0,05	-0,5
6024 E	600	600	5	1,5	50	111	630	6	0,05	-0,3

6025 - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör

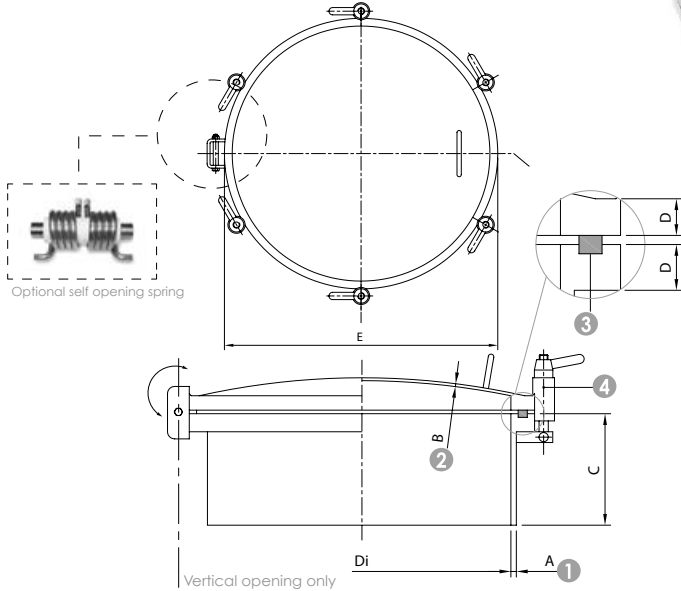
* Ribbing and valve seat for DN 300 and 400 only
Rippen und Ventilsitz (nur DN 300 und DN 400)

Round manhole with peripheral closings
Runde Klapptür, mit Flachrahmen und Spannvorrichtungen

6025 L

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - peripheral closing - spannvorrichtung



Available with PVC handle

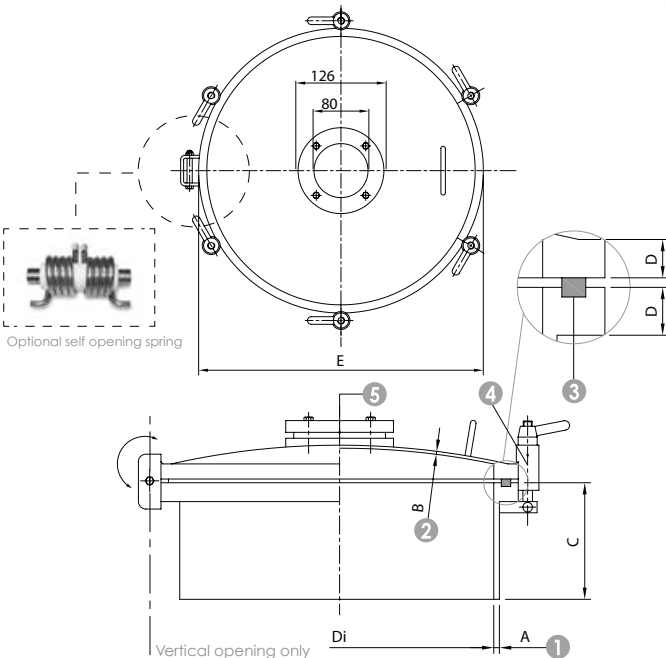
ART.	DN	Di	A	B	C	D	E	Nº ④	P. max bar	Vacuum bar
6025 L15	150	150	4	2	120	20	190	3	4	-1
6025 L2	200	200	4	3	120	20	240	4	4	-1
6025 L3	300	300	6	4	120	20	340	4	4	-1
6025 L35	350	350	6	4	120	20	390	4	4	-1
6025 L4	400	400	6	4	120	20	440	6	4	-1
6025 L45	450	450	6	4	120	20	490	6	3	-1
6025 L5	500	500	6	4	120	20	540	6	3	-1
6025 L6	600	600	6	5	125	25	650	6	2	-1

Round manhole with peripheral closings
Runde Klapptür, mit Flachrahmen und Spannvorrichtungen

6025 P

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - peripheral closing - spannvorrichtung
- ⑤ - sight glass - schauglas



Available with PVC handle

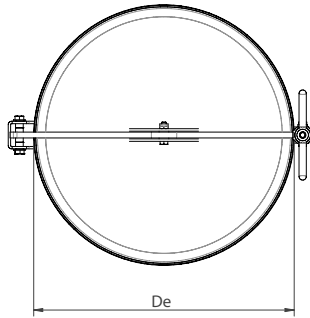
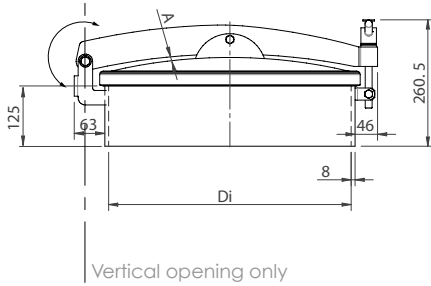
ART.	DN	Di	A	B	C	D	E	Nº ④	P. max bar	Vacuum bar
6025 P15	150	150	4	2	120	20	190	3	4	-1
6025 P2	200	200	4	3	120	20	240	4	4	-1
6025 P3	300	300	6	4	120	20	340	4	4	-1
6025 P35	350	350	6	4	120	20	390	4	4	-1
6025 P4	400	400	6	4	120	20	440	6	4	-1
6025 P45	450	450	6	4	120	20	490	6	3	-1
6025 P5	500	500	6	4	120	20	540	6	3	-1
6025 P6	600	600	6	5	125	25	650	6	2	-1

Round manhole cover back-side opening
Runde Kapptür, vertikale Öffnung

6025 RM

AISI 304L - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - handgriff



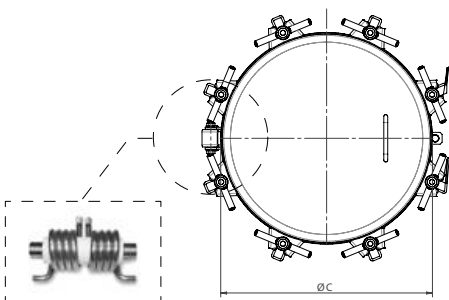
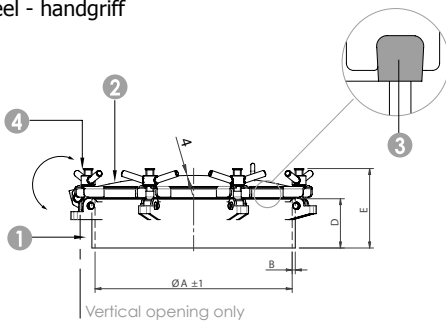
ART.	DN	Di	De	A	P. max bar	Vacuum bar
6025 RM3	300	305	342	4	0,15	-1
6025 RM4	400	400	437	4	0,1	-1
6025 RM5	500	500	537	4	0,1	-1
6025 RM6	600	600	637	6	0,05	-1

Round manhole with peripheral closings - PED
Runde Druckverschlüsse mit Flachrahmen und Spannvorrichtungen - PED

6025 RP

AISI 304 L - 316 L

- ① - frame - kragen (ST/MR)
- ② - cover - deckler (MR)
- ③ - gasket - dichtung
- ④ - handwheel - handgriff



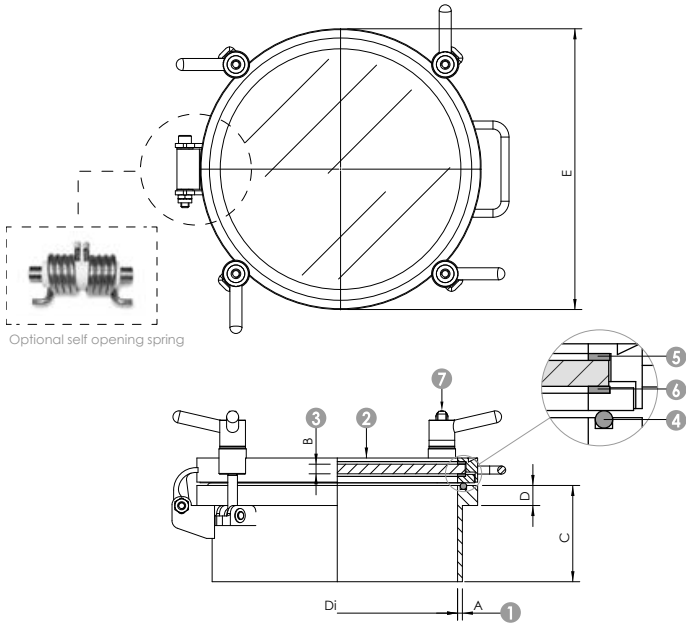
ART.	DN	ØA	B	ØC	D	E	kg	Nr. Handwheel	Temp. °C	P. max bar	Vacuum bar
6025 RP3	300	305	8	342	125	201	20	3	-20/+200	2,7	-1
							22	4	-20/+200	4,0	-1
6025 RP4	400	400	8	437	125	201	28	4	-20/+200	1,5	-1
							30	6	-20/+200	3,0	-1
							32	8	-20/+200	4,0	-1
6025 RP5	500	500	8	537	125	201	34	4	-20/+200	1,5	-1
							37	6	-20/+200	2,7	-1
							39	8	-20/+200	4,0	-1
6025 RP6	600	600	8	637	125	201	44	6	-20/+200	1,0	-1
							46	8	-20/+200	2,5	-1
							48	10	-20/+200	3,0	-1

Round manhole with full sight glass and peripheral closings
 Druck-Glassverschlüsse mit Handgriffen

6025 V

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - glass - glas - стекло
- ④ - gasket - dichtung
- ⑤ - gasket - dichtung
- ⑥ - gasket - dichtung
- ⑦ - peripheral closing - spannvorrichtung



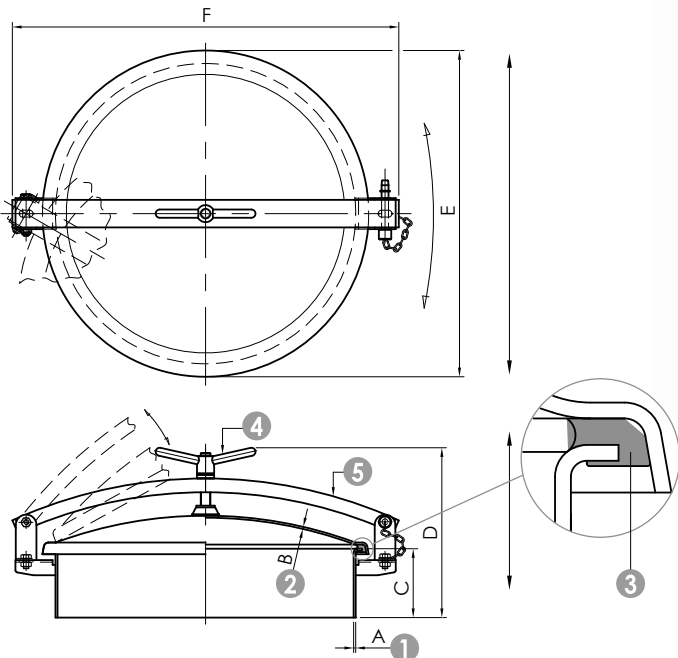
ART.	DN	Di	A	B	C	D	E	No ⑦	P. max bar	Vacuum bar
6025 V2	200	200	6	12	120	25	250	4	3	-1
6025 V3	300	300	6	12	120	25	350	4	3	-1
6025 V4	400	400	6	12	120	25	450	6	3	-1
6025 V5	500	500	6	12	120	25	550	6	1,5	-1
6025 V6	600	600	6	15	120	25	650	6	1	-1

Round manhole with central closure
 Runde Klapptür, Schleisst in der Mitte

6026 N

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - handgrift
- ⑤ - arm - arm



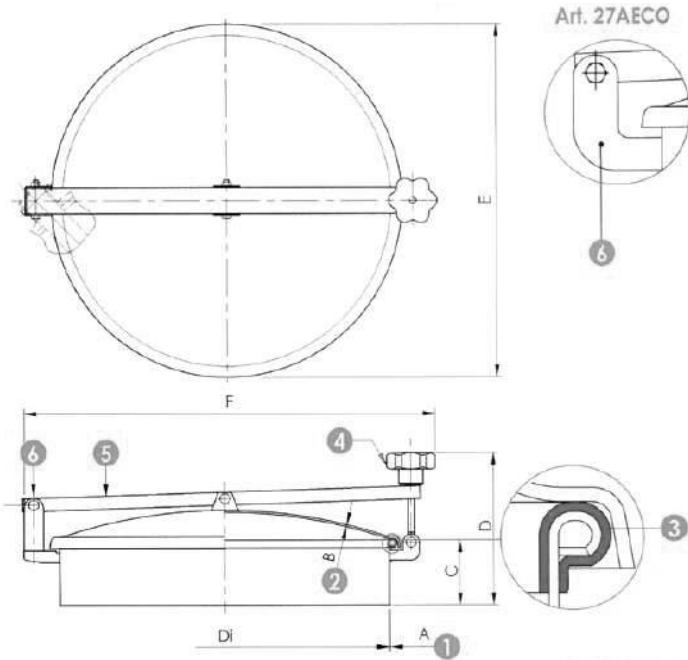
ART.	DN	Di	A	B	C	D	E	F	P. max bar	Vacuum bar
6026 N-1	400	400	3	2	100	250	474	515	0,01	-0,7
6026 N-2	500	500	3	2	100	250	544	625	0,01	-0,5
6026 N-3	600	600	3	2	100	250	640	715	0,01	-0,5

Round manhole cover side-swing opening and back-side opening
Runde Klapptür, Deckel seitlich schwenkbar

6027 A

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - stirrup - bügel



ART.	DN	Di	A	B	C	D	E	F	P _{max} bar
6027 A2	200	200	2	2	80	172	245	315	0
6027 A3	300	300	2	2	80	190	345	415	0
6027 A4	400	400	2	2	80	190	439	515	0
6027 A45	450	450	2	2	80	224	491	565	0
6027 A5	500	500	2	2	80	180	544	625	0
6027 A6	600	600	2	2	80	202	640	715	0

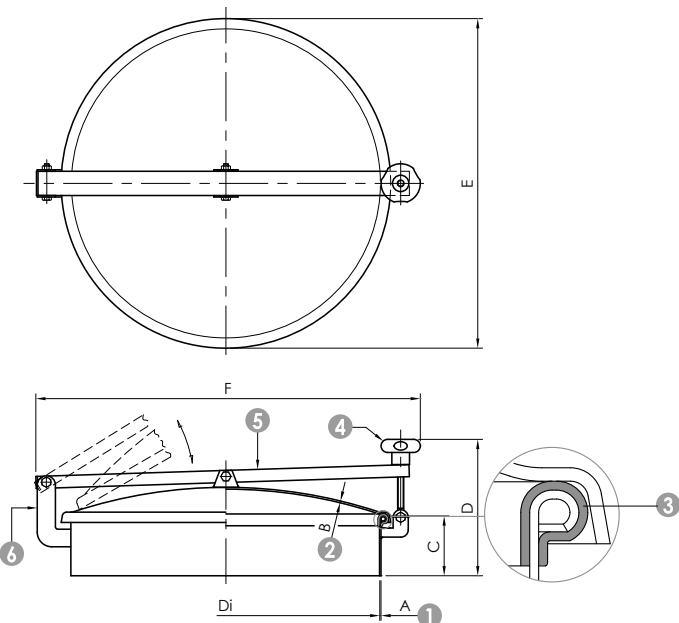
6027 A9 - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör

Round manhole
Runde Klapptür

6027 A ECO

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm
- ⑥ - stirrup - bügel



ART.	DN	Di	A	B	C	D	E	F	P _{max} bar
6027 A2 ECO	200	200	2	2	60	180	245	315	0
6027 A3 ECO	300	300	2	2	60	192	345	415	0
6027 A4 ECO	400	400	2	2	60	189	438	515	0
6027 A5 ECO	500	500	2	2	60	190	544	620	0
6027 A6 ECO	600	598	2	2	60	219	640	715	0

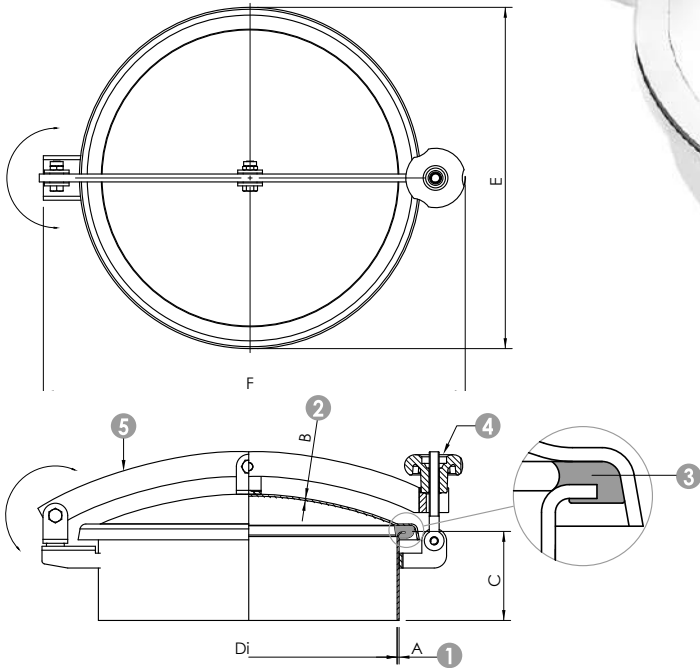
6027 A9 ECO - Cover only complete with acc. / Lediglich Deckel komplett mit Zubehör

Round manhole cover side-swing opening and back-side opening
Runde Klapptür, Deckel seitlich schwenkbar

6027 E

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



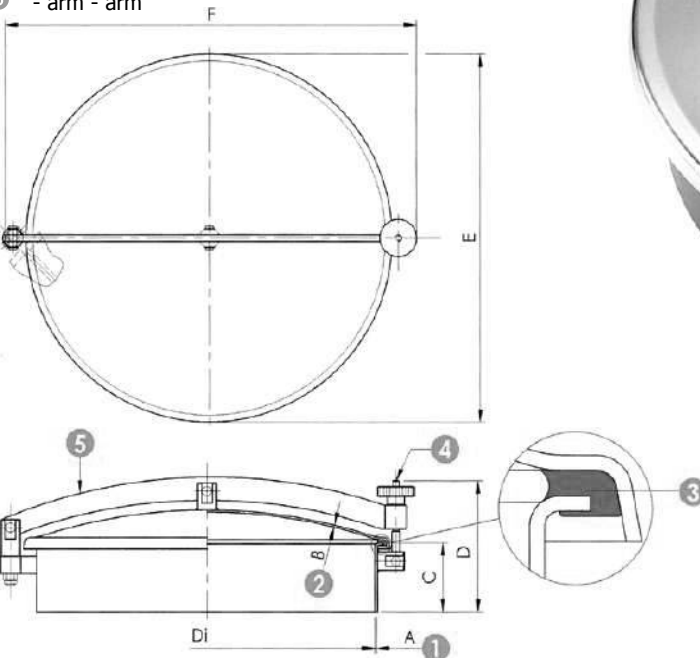
ART.	DN	Di	A	B	C	E	F	P. max bar
6027 E2	200	200	2	2	90	245	327	0,01
6027 E3	300	300	2	2	90	355	427	0,01
6027 E4	400	400	2	2	90	435	527	0,01
6027 E5	500	499	2	2	90	544	626	0,01
6027 E6	600	598	2	2	90	640	725	0,01

Round manhole cover side-swing opening and back-side opening
Runde Klapptür, Deckel seitlich schwenkbar

6027 L

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



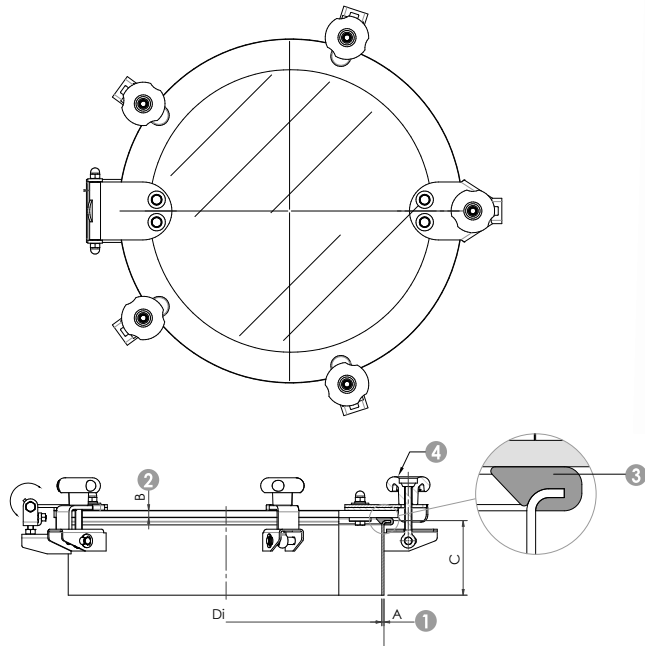
ART.	DN	Di	A	B	C	D	E	F	P. max bar
6027 L2	200	200	3	3	103	203	245	325	0,05
6027 L3	300	300	3	3	103	205	345	425	0,05
6027 L4	430	430	3	3	103	205	474	555	0,05
6027 L45	450	444	3	2,5	103	200	490	570	0,05
6027 L5	500	500	3	3	103	209	544	625	0,04
6027 L6	600	600	3	3	103	205	640	725	0,04

Round manhole with full sight glass
Runde Mannloch, Drucklos

6027 VS

AISI 316L

- ① - frame - kragen
- ② - glass - glas
- ③ - gasket - dichtung
- ④ - handwheel - handgriff



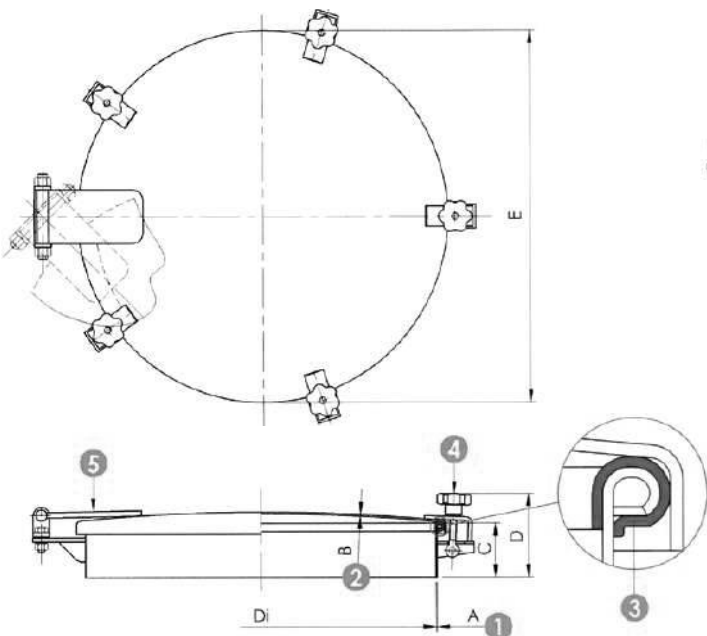
ART.	DN	Di	A	B	C	P _{max} bar
6027 V4	430	430	3	10	103	0,01
6027 V5	500	500	3	10	103	0,01
6027 V6	600	600	3	10	103	0,01

Round manhole with pheripheral closing
Runde Klapptür, mit Spannvorrichtungen

6028 A

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - peripheral closings - spannvorrichtung
- ⑤ - arm - arm



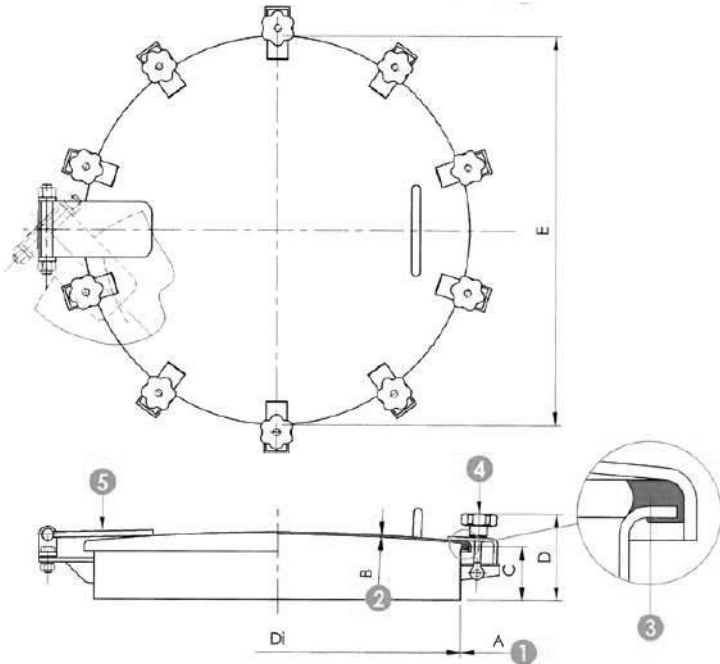
ART.	DN	Di	A	B	C	D	E	No	P _{max} bar	Vacuum bar
6028 A2	200	200	2	2	80	125	245	3	0,1	-0,5
6028 A3	300	300	2	2	80	125	345	4	0,1	-0,5
6028 A4	400	400	2	2	80	125	439	4	0,1	-0,5
6028 A5	500	500	2	2	80	125	544	5	0,05	-0,5
6028 A6	600	598	2	2	80	125	640	6	0,06	-0,3

Big sizes round manhole with peripheral closings
 Groß Durchmesser Runde Klapptür mit Spannvorrichtungen

6028 C

AISI 304 - 316 L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - peripheral closings - spannvorrichtung
- ⑤ - arm - arm



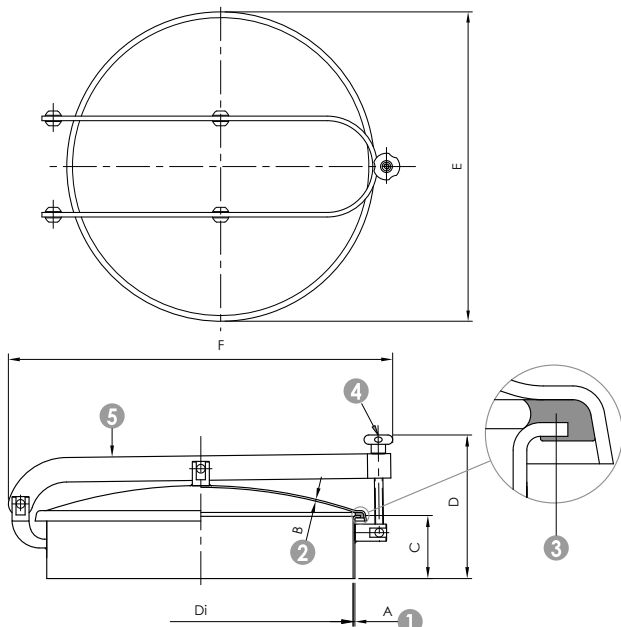
ART.	DN	Di	A	B	C	D	E	N ^o	P _{bar} max
6028 C7	750	740	3	1,2	100	145	785	7	0,01
6028 C9	900	888	3	1,5	100	155	950	8	0,01
6028 C4	1200	1200	3	2	100	145	1255	12	0,01
6028 C5	1400	1400	3	2	100	145	1455	14	0,01

Round manhole with double arm
 Runde Klapptür, mit Doppel Arm

6028 E

AISI 304 - 316 L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



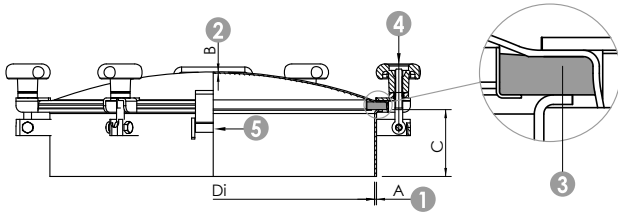
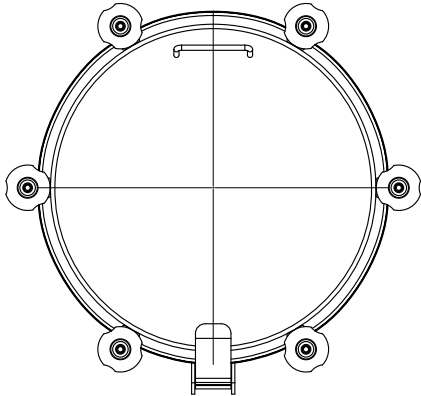
ART.	DN	Di	A	B	C	D	E	F	P _{bar} max
6028 E	400	430	3	3	103	255	474	625	0,01
6028 E3	450	444	3	2,5	103	250	490	675	0,01
6028 E1	500	500	3	3	103	250	544	695	0,01
6028 E2	600	600	3	3	103	239	640	699	0,01

Round manhole with peripheral closings
Runde Klapptür mit Kunststoffgriffen

6028 F

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggrift
- ⑤ - arm - arm



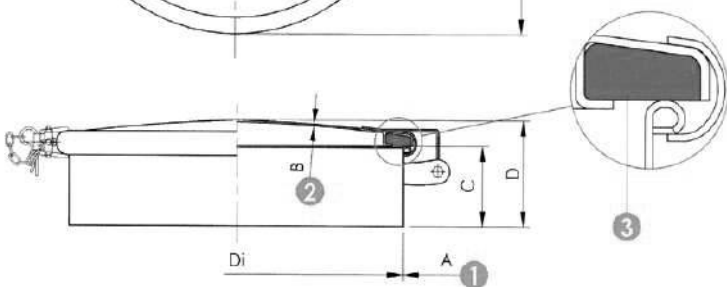
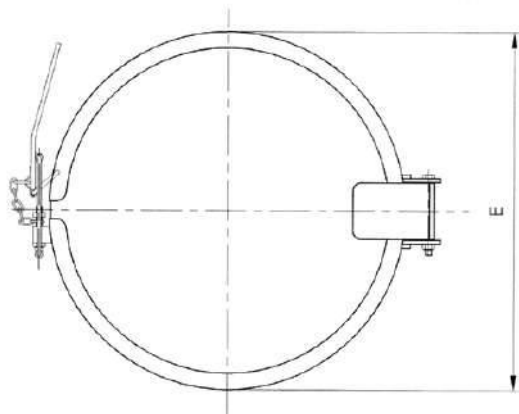
ART.	DN	Di	A	B	C	D	P. max bar	Vacuum bar
6028F4	430	430	3	3	103	474	0,5	-0,5
6028F5	500	500	3	3	103	544	0,4	-0,5
6028F6	600	600	3	3	103	640	0,3	-0,3

Round manhole
Runde Klapptür

6029 A

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung



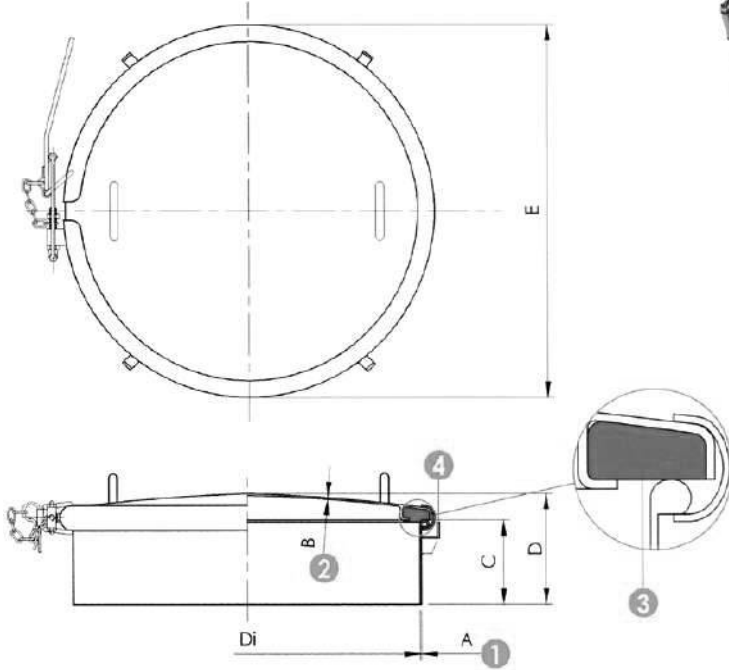
ART.	DN	Di	A	B	C	D	E	P. max bar	Vacuum bar
6029A2	200	200	2	2	100	130	245	2	-0,5
6029A3	300	299	2	2	100	130	345	2	-0,5
6029A4	400	398	2	2	100	130	445	1,5	-0,5
6029A5	500	498	2	2	100	130	544	0,8	-0,5
6029A6	600	598	2	2	100	130	640	0,5	-0,3

Big sizes round manhole
Groß Durchmesser Runde Klapptür

6029 P

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - stirrup - bügel



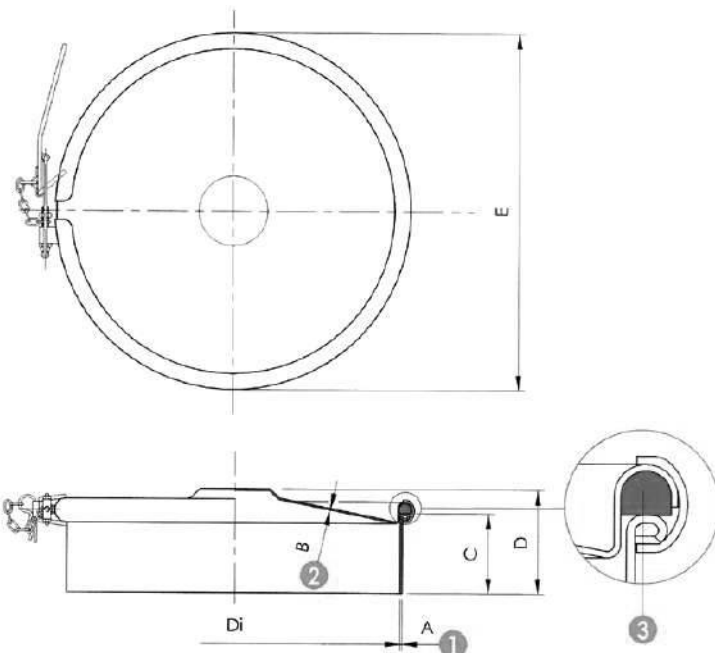
ART.	DN	Di	A	B	C	D	E	P. max bar
6029PA	800	806	3	2	100	180	860	0,1
6029PB	1000	1006	3	2	100	180	1060	0,1
6029PC	1200	1206	3	3	100	180	1260	0,1
6029PD	1400	1406	3	3	100	180	1460	0,1

Round manhole
Runde Klapptür

6029 R

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung



ART.	DN	Di	A	B	C	D	E	P. max bar	Vacuum bar
6029R2	200	220	2	1,5	80	116	240	1,5	-0,5
6029R3	300	299	2	1,5	80	111	322	1,5	-0,5
6029R4	400	394	2	1,5	80	123	420	1	-0,5
6029R5	500	499	2	1,5	80	128	526	0,5	-0,5
6029R6	600	598	2	1,5	80	116	630	0,3	-0,3

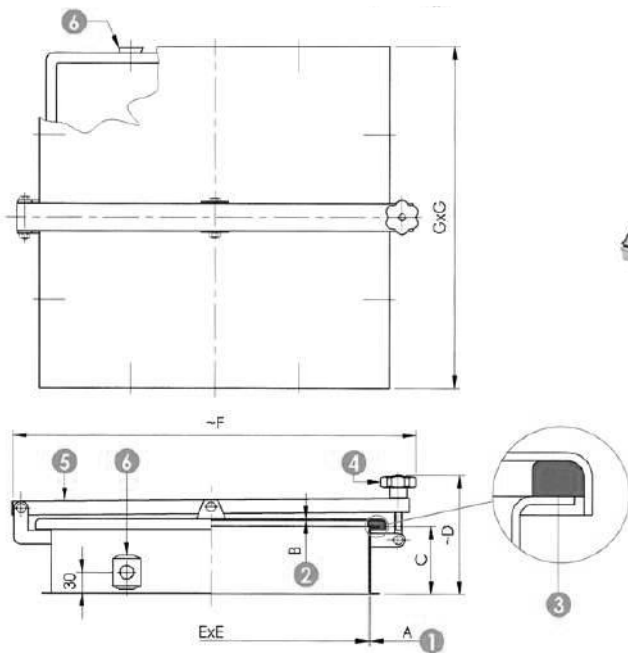
Square manhole
Quadratische Klapptür

Frame for concrete vats
Für Betonfässer

6031

AISI 304 - 316L

- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggriff
- ⑤ - arm - arm
- ⑥ - stirrup - bügel



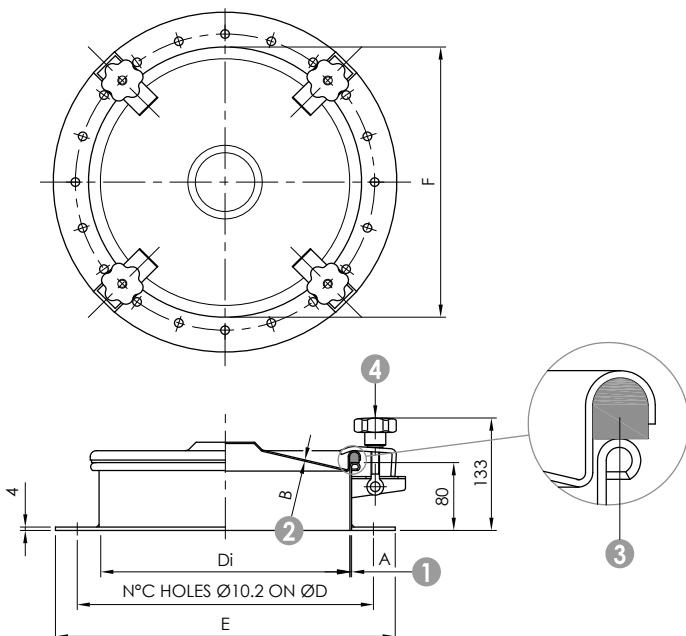
ART.	A	B	C	D	E	F	G	P. max
6031	2	2	100	181	450	577	499	0,01

Round manhole with flange for fixing in wooden tanks
Runde Klapptür mit Flansch für Holztanke, Deckel sietlich schwenkbar

6032

AISI 304 - 316L

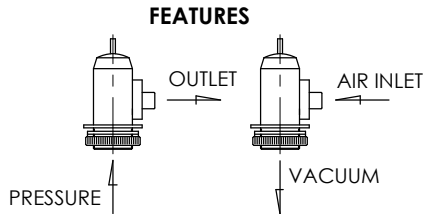
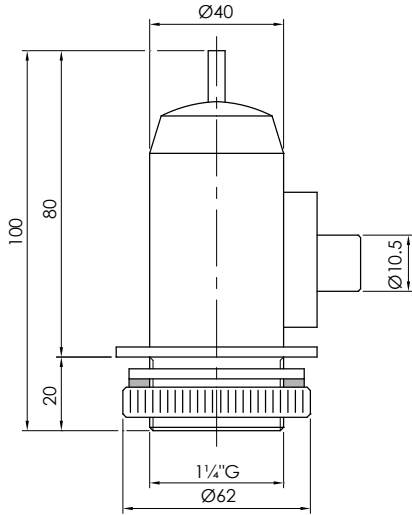
- ① - frame - kragen
- ② - cover - deckler
- ③ - gasket - dichtung
- ④ - handwheel - hanggriff



ART.	DN	Di	A	B	C	D	E	F	N°	P. max	Vacuum
6032	400	394	2	1,5	20	460	508	420	4	0,3	-0,05
6032 A	500	499	2	1,5	25	560	608	526	5	0,2	-0,05
6032 B	600	598	2	1,5	30	660	709	630	6	0,2	-0,03

6046 B

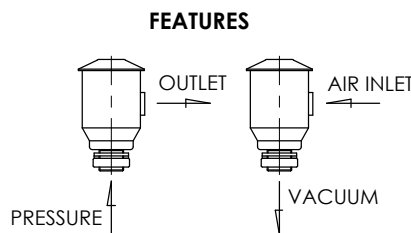
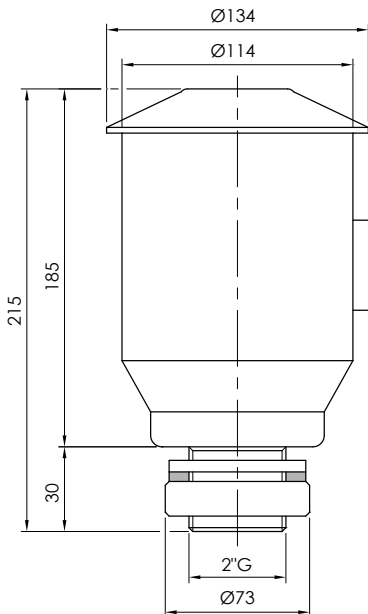
Pressure relief valve in polyethylene
Polyäthylen Druckausgleichsventil



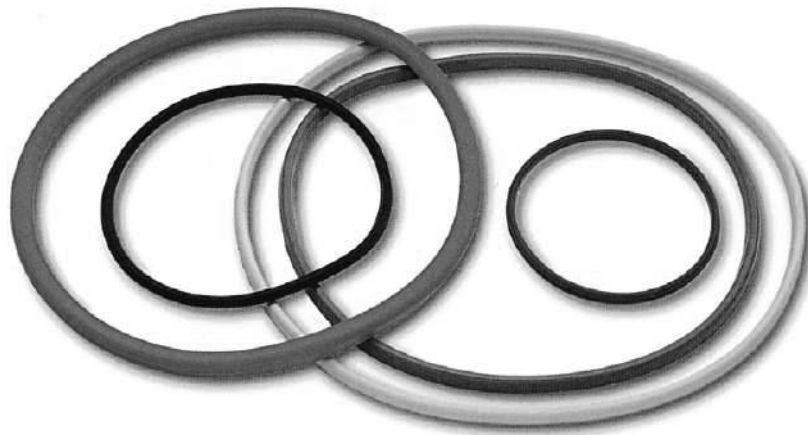
ART.	DN	Range
6046 B	32	300 HI/h

6046 E

Pressure relief valve in polyethylene
Polyäthylen Druckausgleichsventil



ART.	DN	Range
6046 E	50	800 HI/h



Gasket
Dichtungen

APPLICATION AND FEATURES FOR ELASTOMER SEAT

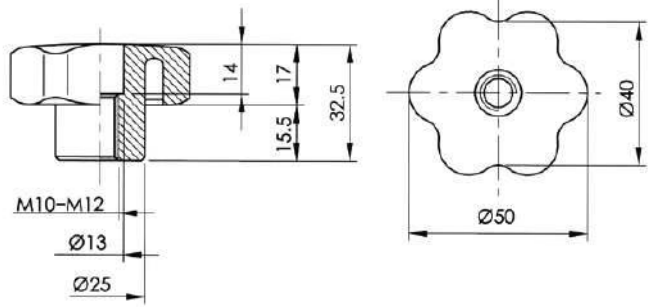
COMMERCIAL NAME	TECHNICAL NAME	GENERAL APPLICATIONS	TEMPERATURE LIMITS	NOT RECOMMENDED FOR
NBR	Copolymer of butadiene and high acrylonitrile	Hydrocarbons with less than 40% of aromatics, natural gas, air, wather, sea wather, brine, alcohols, glycols.	-20°C / +100°C -4°F / +212°F	solvents, benzene, xylene
ETHYLENE, PROPILENE HIGH. TEMP. (EPDM HT)	Terpolymer of ethylene and polypropylene	wather, steam, air brine, abrasives, phosphates, asters, ketones, alkali, food compounds, liquids and solids, dilute inorganics acids, caustic soda.	-35°C / +150°C -31°F / +302°F	hydrocarbons, solvents, steam
SILICONE Q	Methylvinil silicone	Beverages, foodstuffs	-30°C / +150°C -22°F / +302°F	hydrocarbons, solvents, steam
VITON* FPM	Copolymer of exafluoro propilene fluoro vinildene	Hydrocarbons with high concentration of aromatics, mineral and halogenated acids, phosphoric acids, aliphatic and aromatic ethers.	-10°C / +160°C -14°F / +320°F	vapori, chetoni, ammine asteri, alcali
NEOPRENE* CR	Polichloroprene	Oils, diluite mineral acids, alkali, fats.	-18°C / +90°C 0°F / +194°F	ketones, concentrated acids, solvent for paint
NATURAL RUBBER (NR)	Latex (vegetable)	Corrosive products, solvents.	-35°C / +65°C -31°F / +149°F	abrasive products, fluorine gaseous, alkaline metals.
TEFLON* (P.T.F.E)	Polytetrafluoro ethylen	Corrosive products, solvents.	-40°C / +180°C -40°F / +356°F	abrasive products, flourine gaseous, alkaline metals

* - DU PONT

The above table is given as a guide only. Many factors can influence the extent of corrosion (type of solution - concentration - temperature - presence of impurities, ecc.). Hence it is up to the customer to make the final assessment depending on the application and equipment characteristics.

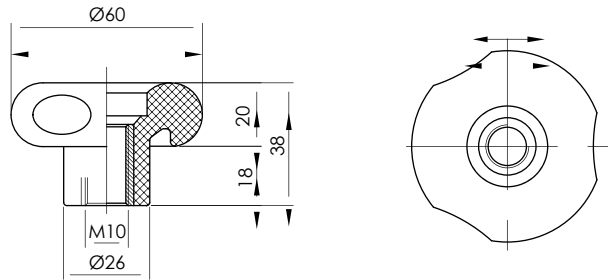
6036 V1

Bakelit handwheel M 10 - M 12
Bakelit Handrad M 10 - M 12



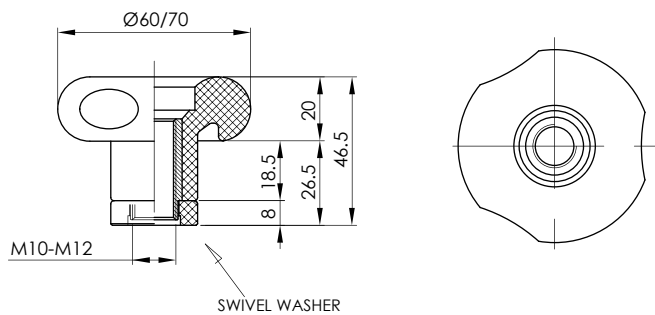
6036 V1/A

PVC handwheel M 10
PVC Handrad M 10



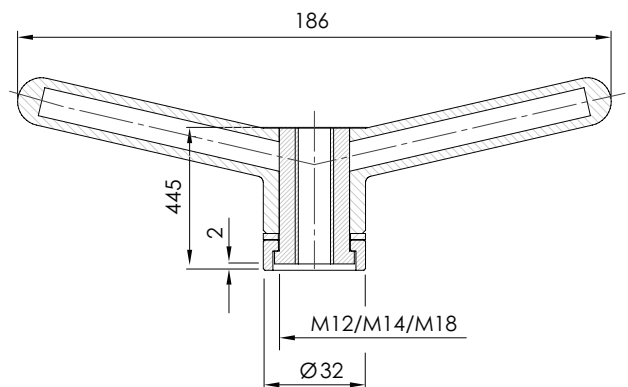
6036 V1/B

PVC handwheel with brake M 10 - M 12
PVC Handrad mit Bremse M 10 - M 12



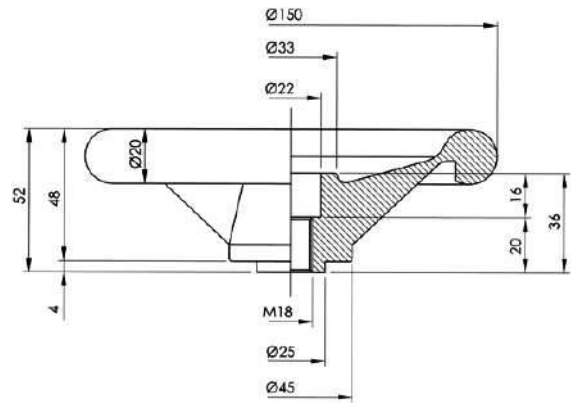
6036 V2

Stainless steel double hand nut with brass insert M 14 - M 18
Edelstahl Handgriff mit einer Messing-Beilage M 14 - M 18



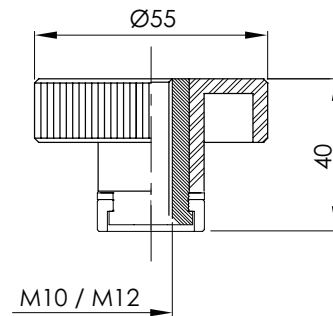
6036 V3

Technopolymer handwheel M 18
Technopolymer Handrad M 18



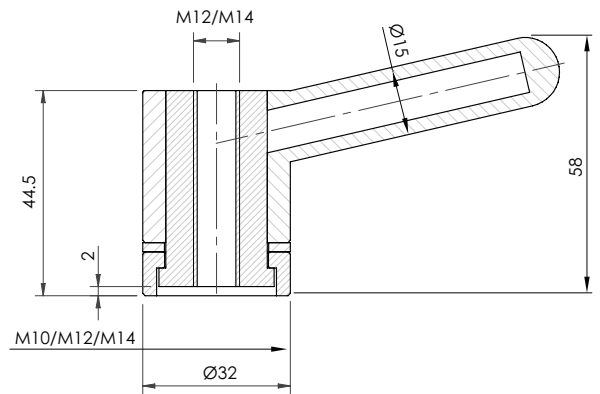
6036 V4

Stainless steel handwheel with brass insert M 10 - M 12
Edelstahl Handrad mit einer Messing-Beilage M 10 - M 12



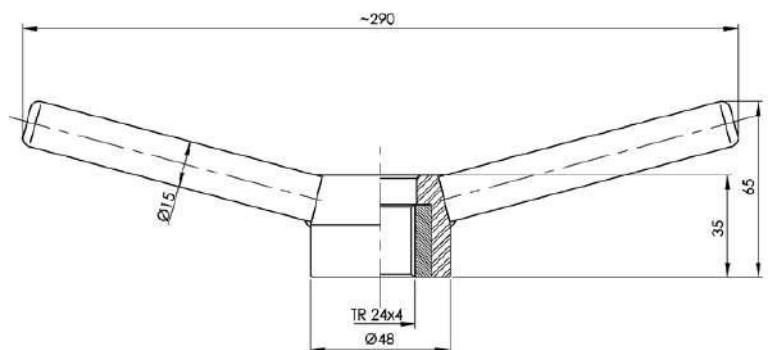
6036 V5

Stainless steel single hand nut M 14
Edelstahl Handgriff mit einer Messing-Beilage M 14



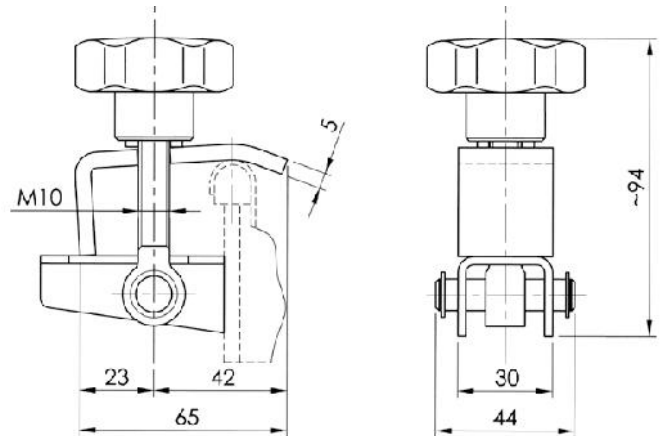
6036 V6

Stainless steel double hand nut TR 24 x 4
Edelstahl Handgriff TR 24 x 4



6036 V7

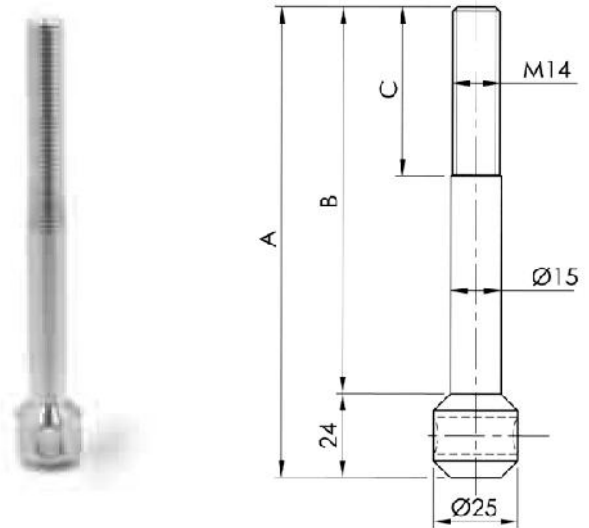
Stainless steel peripheral swing-bolts
Edelstahl Spannvorrichtung



6036 V8

Stainless steel swing-bolt M 14
Edelstahl Bolzen M 14

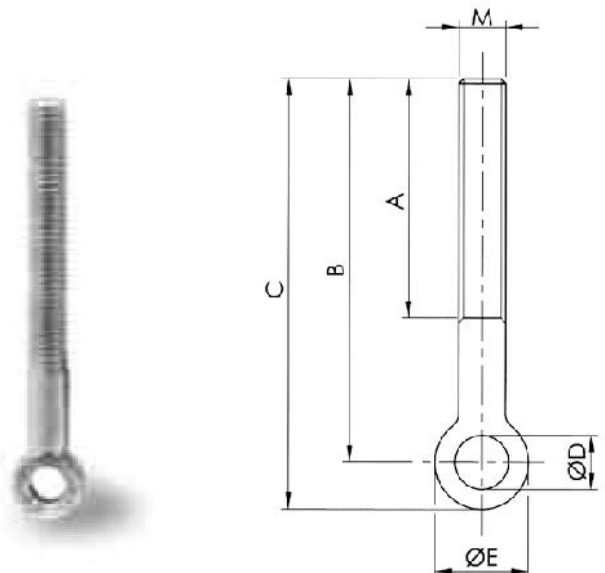
TYPE	A	B	C
6036 V8 - 4 - 1	150	128	80
6036 V8 - 4 - 2	172	148	100
6036 V8 - 4 - 3	165	141	75
6036 V8 - 4 - 4	135	111	80
6036 V8 - 4 - 5	225	201	125



6036 V9

Stainless steel eye-bolt M 10 - M 12
Edelstahl Bolzen M 10 - M 12

TYPE	M	A	B	C	D	E
6036 V9 - 4 - 1	M 10	95	110	120	8,2	20
6036 V9 - 4 - 2	M 10	85	100	110	8,2	20
6036 V9 - 4 - 3	M 10	60	75	85	10,2	20
6036 V9 - 4 - 4	M 12	80	130	140,5	10,2	21
6036 V9 - 4 - 5	M 12	80	160	170,5	10,2	21

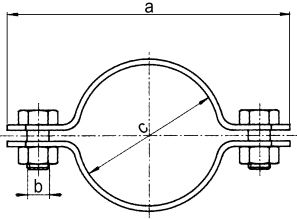


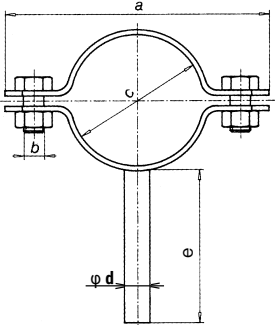
PRODUCER OF STAINLESS PIPING SYSTEMS
HERSTELLER VON EDELSTAHLARMATUREN

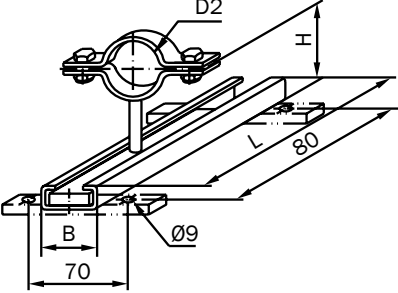
ACCESSORIES ZUBEHÖR

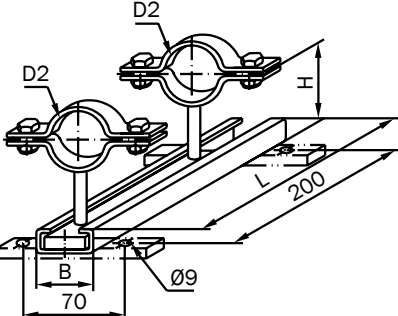


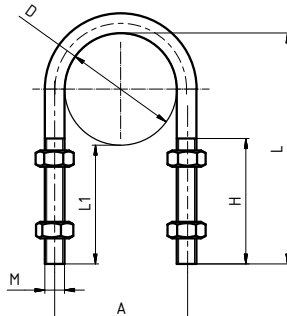
Accessories Zubehör

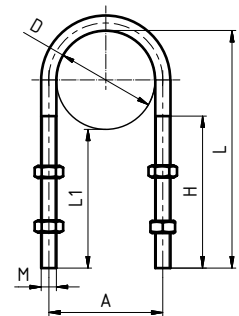
Pipe clamp Rohrschelle ohne Schaft	70210	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	53	M6	13								
	15	60	M6	20								
	20	64	M6	25								
	25	80	M6	30								
	32	76	M6	36								
	40	83	M8	42								
	50	100	M8	55								
	65	119	M8	72								
	80	138	M8	86								
	100	161	M8	105								
	125	198	M8	130								
150	215	M8	156									

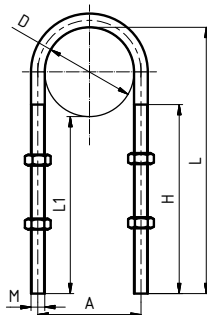
Pipe clamp Rohrschelle mit Schaft	70220	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	Rd x s	kg
	10	53	M6	13	8	60						
	15	60	M6	20	8	60						
	20	64	M6	25	8	60						
	25	80	M6	30	10	60						
	32	76	M6	36	10	60						
	40	83	M8	42	10	60						
	50	100	M8	55	12	60						
	65	119	M8	72	12	60						
	80	138	M8	86	12	60						
	100	161	M8	105	12	60						
	125	198	M8	130	18	60						
150	215	M8	156	18	60							

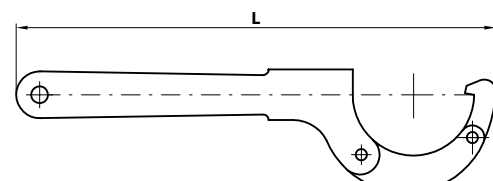
Pipe clamp - sliding - simple Gleitschellensystem - eine Schelle	70261	Dimensions • Baumaße										
		DN	D2	H	B	L	korekce délky	F	R	L	Rd x s	kg
	10	13	71	30	120	50						0,24
	15	20	74,5	30	120	50						0,27
	20	25	77	30	120	50						0,28
	25	30	79,5	30	120	50						0,30
	32	36	82,5	30	120	50						0,31
	40	42	85,5	30	120	50						0,32
	50	55	92	30	120	50						0,33
	65	72	100,5	30	120	50						0,36
	80	86	107,5	30	120	50						0,47
	100	105	117	30	120	50						0,52
	125	130	129,5	30	120	50						
150	156	142,5	30	120	50							

Pipe clamp - sliding - double Gleitschellensystem-zwei Schellen	70262	Dimensions • Baumaße										
		DN	D2	H	B	L	korekce délky	F	R	L	Rd x s	kg
	10	13	71	30	300	100						0,28
	15	20	74,5	30	300	100						0,34
	20	25	77	30	300	100						0,36
	25	30	79,5	30	300	100						0,40
	32	36	82,5	30	300	100						0,42
	40	42	85,5	30	300	100						0,44
	50	55	92	30	300	100						0,46
	65	72	100,5	30	300	100						0,52
	80	86	107,5	30	300	100						0,74
	100	105	117	30	300	100						0,84
	125	130	129,5	30	300	100						
150	156	142,5	30	300	100							


Pipe support, short Rohrspannbügel	70300	Dimensions • Baumaße										
		DN	A	B	C	D	H	L	L1	M	Rd x s	kg
	10	19				12	35	47	35	M6		
	15	24				18	40	53	35	M6		
	20	28				22	45	57	35	M6		
	25	34				28	50	63	35	M6		
	32	40				34	50	69	35	M6		
	40	48				40	50	75	35	M8		
	50	60				52	50	87	35	M8		
	65	78				70	50	105	35	M8		
	80	95				85	50	120	35	M10		
	100	114				104	50	139	35	M10		
	125	139				129	50	164	35	M10		
	150	164				154	50	189	35	M10		
200	214				204	50	239	35	M10			

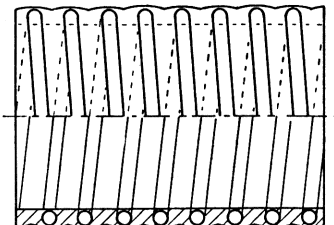
Pipe support, medium Rohrspannbügel	70310	Dimensions • Baumaße										
		DN	A	B	C	D	H	L	L1	M	Rd x s	kg
	10	18				12	65	77	65	M6		
	15	24				18	70	83	65	M6		
	20	28				22	75	87	65	M6		
	25	34				28	80	93	65	M6		
	32	40				34	80	99	65	M6		
	40	48				40	80	105	65	M8		
	50	60				52	80	117	65	M8		
	65	78				70	80	135	65	M8		
	80	95				85	80	150	65	M10		
	100	114				104	80	169	65	M10		
	125	139				129	80	194	65	M10		
	150	164				154	80	219	65	M10		
200	214				204	80	269	65	M10			

Pipe support, long Rohrspannbügel	70320	Dimensions • Baumaße										
		DN	A	B	C	D	H	L	L1	M	Rd x s	kg
	10	18				12	95	107	95	M6		
	15	24				18	100	113	95	M6		
	20	28				22	105	117	95	M6		
	25	34				28	110	123	95	M6		
	32	40				34	110	129	95	M6		
	40	48				40	110	135	95	M8		
	50	60				52	110	147	95	M8		
	65	78				70	110	165	95	M8		
	80	95				85	110	180	95	M10		
	100	114				104	110	199	95	M10		
	125	139				129	110	224	95	M10		
	150	164				154	110	249	95	M10		
200	214				204	110	299	95	M10			

Key Hakenschlüssel	70500	Dimensions • Baumaße									
		DN	A	B	C	E	E	F	L	Rd x s	kg
	25 - 65								270		
	65 - 150								450		

Electrode (welding) Elektroden	73050	Dimensions • Baumaße											
		DN	A	B	C	E	E	F	R	L	Rd x s	kg	
<p style="text-align: center;">Ø 1,6 - 5 mm length 250 - 450 mm</p>		1,6											
		2,0											
		2,5											
		3,25											
		4,0											
		5,0											

Pickling paste for non-corrosive steel Beizpaste	75010	Dimensions • Baumaße											
		DN	A	B	C	D	E	F	R	L	Rd x s	kg	
 <p style="text-align: center;">mořící pasta</p>												2	
													4
													6
													8
													10
													15
													14
													16
													18
													20

Special flexible hose for wine Spezial flexible Schlauch für wine	76060	Dimensions • Baumaße										
		DN	ØD [mm]	Pressure [bar]	Under-pressure [bar]	Weight [kg/m]	Length [m]					kg
		25	32,0	8	0,9	0,40	50					
		30	38,0	8	0,9	0,50	50					
		32	40,0	8	0,9	0,52	50					
		35	43,2	8	0,9	0,60	50					
		38	47,0	8	0,9	0,73	50					
		40	49,0	8	0,9	0,75	50					
		45	54,0	8	0,9	0,90	50					
		50	59,6	8	0,9	1,10	50					
		60	70,0	7	0,9	1,45	50					
		63	73,6	7	0,9	1,68	50					
		70	82,4	6	0,9	1,80	50					
		75	88,6	6	0,9	1,90	50					
		80	94,0	5	0,9	2,20	50					
90	105,0	5	0,9	2,56	30							
100	116,0	4	0,9	3,30	30							

CHARAKTERISTIC:

Flexible hose. Temperature range: -5°C +60°C

Applications: suction and discharge of food stuffs, wine, beer.

Rigid PVC spiral. Smooth inside.

Accessories Zubehör

Suction and pressure hose for liquids in food industry Druck-und Saug-Schläuche für die Lebensmittelindustrie	76070	Pressure	Under- pressure	Weight	Length	ØD	Dimensions • Baumaße					
		DN	[bar]	[bar]	[kg/m]	[m]	[mm]					kg
	10	7	0,85	0,16	60	16						
	12	7	0,85	0,18	60	18						
	14	6	0,85	0,20	60	20						
	16	6	0,85	0,24	60	22						
	18	6	0,85	0,30	60	24						
	20	5	0,85	0,35	60	27						
	22	5	0,85	0,38	60	29						
	25	5	0,85	0,51	60	33						
	32	4	0,85	0,65	60	40						
	35	4	0,85	0,75	60	44						
	40	3	0,80	0,87	30	50						
	45	3	0,80	1,13	30	55						
	50	3	0,80	1,20	30	60						
	60	3	0,80	1,80	30	72						
63	3	0,80	1,85	30	75							

Temperature range:

-5 °C to +60 °C

Safety:

- 3:1

Reinforcement:

- Spiral made of steel wire – guarantees high flexibility.

Material:

- Softened PVC – transparent, suitable for use in food industry, resistant against ozone

Use:

- Suction and discharge of food products without fat contents – potable water, juices, wine, alcoholic beverages up to 28% alc. vol., winegar, ketchup, etc.

Suction and pressure hose for liquids in food industry Druck-und Saug-Schläuche für die Lebensmittelindustrie	76080	Pressure	Under- pressure	Weight	Length	Dimensions • Baumaße					
		DN	[bar]	[bar]	[kg/m]	[m]					kg
	20	8	0,7	0,30	50						
	25	8	0,7	0,40	50						
	32	7	0,7	0,48	50						
	40	6	0,7	0,60	50						
	45	6	0,7	0,70	50						
	51	5	0,7	0,85	50						
	60	5	0,7	1,00	50						
	63	5	0,7	1,10	50						
	70	5	0,7	1,25	50						
	76	5	0,7	1,40	50						
	80	4	0,7	1,60	30						
	90	4	0,7	1,85	30						
102	4	0,7	2,20	30							

Temperature range:

-5 °C to +60 °C

Safety:

3:1

Reinforcement:

- Spiral made of hardened PVC - white


Material:

- Softened PVC – transparent (transparent yellow), suitable for use in food industry.

Use:

- Transport of food products without fat contents under low-pressure – potable water, juices, wine, alcoholic beverages up to 28% alc. vol., winegar, ketchup, etc.

Accessories Zubehör

Pressure and suction hose for food Druck-und Saug-Schläuche für die Lebensmittelindustrie	76210							Dimensions • Baumaße			
		DN	ØD [mm]	Pressure [bar]	Under-pressure [bar]	Weight [kg/m]	Length [m]				kg
	25	38	10	0,95	0,91	40/60					
	32	46	10	0,95	1,19	40/60					
	38	52	10	0,95	1,45	40/60					
	51	65	10	0,90	1,92	40/60					
	63	80	10	0,90	2,83	40/60					
	76	93	10	0,90	3,45	40/60					
	80	98	10	0,85	3,90	40/60					
	100	120	10	0,85	4,90	40/60					

Temperature range:

-35 °C to +120 °C

Safety:

- 3:1

Reinforcement:

- Textile braid, spirals of steel wire

Inner tube; Внутренняя камера:

- Rubber IIR (Butyl) – white, for use in food industry, absolutely savour and odour neutral

Outer tube; Внешнее покрытие:


- Rubber EPDM – red, for use in food industry, resistive against ozone and wearing

Use:

- Hoses of the highest quality. Suction and discharge of beverages, food and pure alcohol up to 98%. Especially suitable type for breweries and producers of hard drinks. Not suitable for oils and fats.

Note:

- Sterilisation using steam under pressure of 3 bar at max. temperature +160 °C for a period of 30 minutes or using a sanitising solution at +90 °C.

Pressure and suction hose for fats and oil Druck-und Saugschläuche für Öl Fette	76220							Dimensions • Baumaße			
		DN	ØD [mm]	Pressure [bar]	Under-pressure [bar]	Weight [kg/m]	Length [m]				kg
	25	34	10	0,95	0,60	40/60					
	32	42	10	0,95	0,68	40/60					
	38	48	10	0,95	0,84	40/60					
	40	50	10	0,95	1,03	40/60					
	51	62	10	0,90	1,40	40/60					
	60	72	10	0,90	1,96	40/60					
	63	76	10	0,90	2,04	40/60					
	76	89	10	0,90	2,34	40/60					
	80	94	10	0,85	2,46	40/60					
	102	117	10	0,85	3,66	40/60					

Temperature range:

-20°C to +80°C

Safety:

- 3:1

Reinforcement:

- Textile braid, spirals of steel wire

Inner tube; Внутренняя камера:

- Rubber NBR – white, resistive against oils and fats, for use in food industry savour and odour neutral

Outer tube:

- Rubber NR – blue, resistive against ozone and wearing

Use:

- Suction and discharge of food products containing vegetable and animal fats. Suitable also for discharge of beer, wine, milk products, distilled beverages up to 40%, etc

Note:

- Sterilisation using steam under pressure of 2.5 bar at +130 °C for a period of 30 minutes or using a sanitising solution at +60°C.

CONVERSION TABLE		UMRECHNUNGSTABELLE	
DN	(inch)	(mm)	
8	1/4"	6,35	
10	3/8"	9,25	
15	1/2"	12,7	
20	3/4"	19,0	
25	1"	25,4	
32	1 1/4"	31,7	
40	1 1/2"	38,1	
50	2"	51,0	
65	2 1/2"	63,5	
80	3"	76,1	
100	4"	104,0	

BAR CONVERSION CHARTS	BAR UMPRECHNUNGSTABELLE
1 Bar	100000 Pascals
	100 Kilopascals
	1000 Milibars
	1000000 Microbars
	~0,98 Atmospheres
	~401,46 Inches of wather
	10 Meters of wather
	~29,53 Inches of mercury
	~750 Milimeters of mercury
	~14,5 Pounds per square inches
	~1,02 Kilograms per square inches

GENERAL INFORMATION

MATERIALS USED

All units and parts listed in this catalogue are produced from non-corrosive acid-resistant Cr – Ni steel ČSN 17 240, which is the equivalent of the German standard DIN 1.4301. If the corrosion-proof requirements of the parts are higher they are produced from non-corrosive Cr-Ni-Mo steel ČSN 17 349 which conforms to DIN 1.4404.

Chemical composition of the most frequently used non-corrosive steels

ČSN PN	%C max.	%Si max.	%Mn max.	%P max.	%S max.	%Cr max.	%Mo max.	%Ni max.	%Ti max.
17 240	0.07	1.00	2.00	0.045	0.030	17.0-20.0	-	9.0 -11.5	-
17 249	0.03	1.00	2.00	0.045	0.030	17.0-20.0	-	10.0-12.5	-
17 346	0.07	1.00	2.00	0.045	0.030	16.5-18.5	2.0-2.5	10.5-13.5	-
17349	0.03	1.00	2.00	0.045	0.030	16.5-18.5	2.0-2.5	11.0-14.0	-
17 248	0.10	1.00	2.00	0.045	0.030	17.0-19.0	-	9.5-12.0	>=5xC
17 348	0.10	1.00	2.00	0.045	0.030	16.5-18.5	2.0-2.5	11.0-14.0	>=5xC

International standards conversion table for marking steels

Poldi	Czech Rep. PN	Germany DIN (W. Nr.)	USA ASTM	Italy UNI	France AFNOR	Russia GOST
AKV7	17240	1.4301	AISI 304	X5CrNi1810	Z7CN18-09	08Ch18N10
AKV2	17249	1.4306	AISI304L	X2CrNi1811	Z3CN19-121	03Ch18N11
AKV EX7	17346	1.4401	AISI 316	X5CrNiMo1712.2	Z7CND17-12-02	-
AKV EX2	17349	1.4404	AISI 316L	X2CrNiMo1713.2	Z3CND18-12-02	03Ch12N14M2
AKVS7	17248	1.4541	AISI 321	X6CrNiTi1811	Z6CNT18-10	08Ch18N10T
AKV EX S9	17348	1.4571	AISI 316Ti	X6CrNiMoTi1712	Z6CNDT17-12	08Ch17N13M2

DESIGN

The bulk of products are produced from bars or forged material. The material is in such a state that after welding it is not necessary to carry out further treatment. Tubular adapting pipes in their basic finish are pickled – matt, or treated – ground (brushed).

PIPE CONNECTING PARTS – DIN SCREW COUPLINGS

These are produced according to the DIN 11 851 standard and the screw thread according to the DIN 405 (ČSN 01 4037) standard. Connection of the sockets (screw thread or ring) to the tubes can be done in two ways:

- a) butt welding
- b) flaring the inside diameter

From diameters of 50mm and above it is necessary to ensure flaring of connections with a seam weld. Flared connections with a seam weld are hygienically unobjectionable and are suitable for pressures of 1 MPa (tested at a pressure of 2 MPa). Parts which do not correspond to any standards are produced according to branch or factory standards, and possibly workshop standards, and in some cases to approved technical drawings.

SEALING

Seals listed in this catalogue are produced from the following materials – SILICON, PERBUNAN, EPDM or VITON. They are supplied separately or as part of the set. Prices for tubular adapting pipes and sets of screw couplings do not include sealing rings.

MAINTENANCE

Without exception the materials used are suitable for general use in the food-processing industry. These materials are sensitive to high concentrations of chloride solutions and therefore we recommend that the instructions and recommendations of the manufacturer are heeded. Corrosion can only be prevented if these instructions are adhered to.

GENERAL INFORMATION

SPECIAL DESIGN

Apart from the standard parts listed in this catalogue we also supply special designs according to customer requirements and their technical documentation.

INSTRUCTIONS FOR ORDERING

For quick and simple processing of your order please supply the following data:

1	2	3	4
numerical labelling of goods	dimension(DN)	material	amount

If group „3" is not listed in the order we automatically supply material 17 240 (DIN 1.4301)

If you require other parts and units than those in this catalogue please send your specific requirements.

This issue nullifies all previous catalogues and delivery conditions listed in them.

We would be pleased to discuss your specific requirements and answer your questions in person. We look forward to your visit.

GENERAL INFORMATION

MATERIALS USED

All units and parts listed in this catalogue are produced from non-corrosive acid-resistant Cr – Ni steel ČSN 17 240, which is the equivalent of the German standard DIN 1.4301. If the corrosion-proof requirements of the parts are higher they are produced from non-corrosive Cr-Ni-Mo steel ČSN 17 349 which conforms to DIN 1.4404.

Chemical composition of the most frequently used non-corrosive steels

ČSN PN	%C max.	%Si max.	%Mn max.	%P max.	%S max.	%Cr max.	%Mo max.	%Ni max.	%Ti max.
17 240	0.07	1.00	2.00	0.045	0.030	17.0-20.0	-	9.0 -11.5	-
17 249	0.03	1.00	2.00	0.045	0.030	17.0-20.0	-	10.0-12.5	-
17 346	0.07	1.00	2.00	0.045	0.030	16.5-18.5	2.0-2.5	10.5-13.5	-
17349	0.03	1.00	2.00	0.045	0.030	16.5-18.5	2.0-2.5	11.0-14.0	-
17 248	0.10	1.00	2.00	0.045	0.030	17.0-19.0	-	9.5-12.0	>=5xC
17 348	0.10	1.00	2.00	0.045	0.030	16.5-18.5	2.0-2.5	11.0-14.0	>=5xC

International standards conversion table for marking steels

Poldi	Czech Rep. PN	Germany DIN (W. Nr.)	USA ASTM	Italy UNI	France AFNOR	Russia GOST
AKV7	17240	1.4301	AISI 304	X5CrNi1810	Z7CN18-09	08Ch18N10
AKV2	17249	1.4306	AISI304L	X2CrNi1811	Z3CN19-121	03Ch18N11
AKV EX7	17346	1.4401	AISI 316	X5CrNiMo1712.2	Z7CND17-12-02	-
AKV EX2	17349	1.4404	AISI 316L	X2CrNiMo1713.2	Z3CND18-12-02	03Ch12N14M2
AKVS7	17248	1.4541	AISI 321	X6CrNiTi1811	Z6CNT18-10	08Ch18N10T
AKV EX S9	17348	1.4571	AISI 316Ti	X6CrNiMoTi1712	Z6CNDT17-12	08Ch17N13M2

DESIGN

The bulk of products are produced from bars or forged material. The material is in such a state that after welding it is not necessary to carry out further treatment. Tubular adapting pipes in their basic finish are pickled – matt, or treated – ground (brushed).

PIPE CONNECTING PARTS – DIN SCREW COUPLINGS

These are produced according to the DIN 11 851 standard and the screw thread according to the DIN 405 (ČSN 01 4037) standard. Connection of the sockets (screw thread or ring) to the tubes can be done in two ways:

- a) butt welding
- b) flaring the inside diameter

From diameters of 50mm and above it is necessary to ensure flaring of connections with a seam weld. Flared connections with a seam weld are hygienically unobjectionable and are suitable for pressures of 1 MPa (tested at a pressure of 2 MPa). Parts which do not correspond to any standards are produced according to branch or factory standards, and possibly workshop standards, and in some cases to approved technical drawings.

SEALING

Seals listed in this catalogue are produced from the following materials – SILICON, PERBUNAN, EPDM or VITON. They are supplied separately or as part of the set. Prices for tubular adapting pipes and sets of screw couplings do not include sealing rings.

MAINTENANCE

Without exception the materials used are suitable for general use in the food-processing industry. These materials are sensitive to high concentrations of chloride solutions and therefore we recommend that the instructions and recommendations of the manufacturer are heeded. Corrosion can only be prevented if these instructions are adhered to.

GENERAL INFORMATION

SPECIAL DESIGN

Apart from the standard parts listed in this catalogue we also supply special designs according to customer requirements and their technical documentation.

INSTRUCTIONS FOR ORDERING

For quick and simple processing of your order please supply the following data:

1	2	3	4
numerical labelling of goods	dimension(DN)	material	amount

If group „3" is not listed in the order we automatically supply material 17 240 (DIN 1.4301)

If you require other parts and units than those in this catalogue please send your specific requirements.

This issue nullifies all previous catalogues and delivery conditions listed in them.

We would be pleased to discuss your specific requirements and answer your questions in person. We look forward to your visit.

TECHNICAL INFORMATION

TECHNISCHE INFORMATIONEN

Technical Information for Gaskets					
Title	Silicon (VMQ silicon rubber)	EPDM (ethylene-propylene-diene rubber)	Viton (FPM fluorine rubber)	Perbunan (NBR nitrile rubber)	PTFE (polytetrafluorethylene)
Temperature of use	It is stable in water up to 100 °C Possibility of sterilisation by steam short-term up to 120 °C to 130 °C	Permanent operating use from 40 °C to +140 °C Possibility of sterilisation by steam up to 130 °C	Permanent operating use from 20 °C to +200 °C Possibility of sterilisation by steam short-term up to 130 °C to 140 °C	Permanent operating use from 25 °C to +110 °C Possibility of sterilisation by steam short-term up to 130 °C	Up to +200 °C it is physiologically harmless, use from 200 °C to +260 °C
Recommended use	High temperature load capacity It has good resistance to cold, suitable for food, it has dielectric properties. It has good resistance to alcohols.	It has good resistance to swelling for: • Diluted inorganic and organic acids, media, oxidising media, lyes, and ketones • Hot water and steam up to 130 °C	It has good resistance to swelling for: • Mineral oils • Plant and animal oils • Lubricants (also some additives) • Fuels	It has good resistance to swelling for: • Aliphatic hydrocarbons (such as propane, butane, benzene, mineral oil) • Lubricants based on mineral oil	It has good resistance to swelling in almost all parts It has a smooth and repellent surface so sticking does not occur It has better chemical resistance than in all other elastomers Non-flammable material
Limited use (border)	Shows high swelling for: • Low-molecular esters and ethers • Aliphatic and aromatic hydrocarbons • Concentrated acids and alkali	Cannot be used for: • Plant and animal oils • Aliphatic, aromatic, and chlorinated hydrocarbons • Mineral oils	Shows high swelling for: • Polar solvents, such as acetone, methyl ketone, ethyl acetate, diethyl ether, and dioxane • Low-molecular organic acids (formic acid and acetic acid) • Gaseous ammonia, amines and alkanes • Overheated water steam	Not resistant to: • Polar solvents • Chlorinated hydrocarbons • Ketones • Aromatic hydrocarbons (benzol) • Esters	Not resistant to: • Liquid alkaline metals and some compounds of fluorine in connection with higher pressure and temperature The material does not show the flexibility of rubber.
Material approval	BGA/FDA	BGA/FDA	BGA/FDA	BGA/FDA	BGA/FDA
BGA = approval of the "Federal Health Authority" in Germany ("Bundesgesundheitsamt") FDA = approval of the "US Food and Drug Administration"					

TECHNICAL INFORMATION

TECHNISCHE INFORMATIONEN

Technische Informationen für Dichtringe					
Name	Silikon (VMQ)	EPDM (Ethylen-Propylen-Dien- Kautschuk)	Viton (FPM)	Perbunan (NBR)	PTFE (Polytetrafluoräthylen)
Einsatztemperatur	in Wasser bis 100°C beständig Dampfsterilisierbar kurzfristig bis 120°C - 130°C	Dauereinsatz von minus 40°C bis 140°C Dampfsterilisierbar bis 130°C	Dauereinsatz von minus 20°C bis 200°C Dampfsterilisierbar kurzfristig bis 130°C - 140°C	Dauereinsatz von minus 25°C bis 110°C Dampfsterilisierbar kurzfristig bis 130°C	bis 200°C physiologisch unbedenklich, Einsatz von -200°C bis +260°C
typ. Einsatzbereich	hohe thermische Belastbarkeit gute Kältebeständigkeit, für lebensmittel gut geeignet, dielektrische Eigenshaften gute Beständigkeit gegenüber Alkoholen	gute Quellbeständigkeit bei: • verdünnte anorg.- und organische Säuren, Medien, oxidierend wirkende Medien, Laugen und Kentonen • in Heißwasser und Dampf bis 130°C	gute Quellbeständigkeit bei: • Mineralölen • pflanzlichen und tierischen Ölen • Fetten (auch bestimmte Additive) • Kraftstoffe	gute Quellbeständigkeit • aliphatischen Kohlenwasserstoffen (wie Propan, Butan, Benzin, Mineralölen) • Fett auf Mineralölbasis	gute Quellbeständigkeit in nahezu allen Teilen Oberfläche glatt und abweisend, dadurch kein Haften von Rückständen chemische Beständig- keit besser als bei allen anderen Elastomeren kaum brennbar
Einsatzgrenzen	hohe Quellung bei: • niedermolekularen Estern und Ethern • aliphatischen und aromatischen Kohlen- wasserstoffen • konz. Säuren und Alkalien	nicht einzusetzen bei: • pflanzlichen und tierischen Ölen • aliphatischen aromatischen und chlorierten kohlen- wasserstoffen • Mineralöle	stark quellend bei: • polaren Lösungsmitteln wie Aceton, Methyl- keton, Ethylacetat, Diethylether u. Dioxane • niedermolekularen organ. Säuren (Ameisen - und Essigsäuren) • Ammoniakgase, Amine u. Alkanien • überhitzter Wasserdampf	nicht beständig bei: • polaren Lösungsmitteln • chlorierten Kohlen- wasserstoffen • Ketone • Aromaten (Benzol) • Ester	nicht beständig bei: • flüssigen Alkalimetallen und einigen Flourverbindungen in Verbindung mit hohem Druck und Temperatur kein gummielastischer Werkstoff
Werkstoffzulassung	BGA/FDA	BGA/FDA	BGA/FDA	BGA/FDA	BGA/FDA
BGA = Bundesgesundheitsamt FDA = US Food and Drug Administration					

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