

PIPE UNIONS

ROHRVERBINDUNGEN



02 PIPE UNIONS ROHRVERBINDUNGEN



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04 VALVES AND COCKS VENTILE UND HÄHNE



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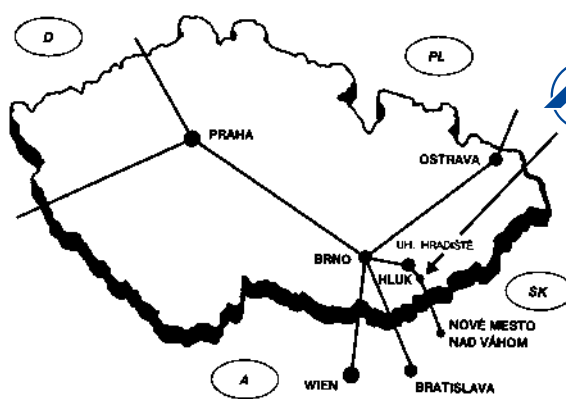


08 DOUBLE-WALLED PIPING SYSTEMS DOPPELWANDIGE ROHRSYSTEME



The company NIOB FLUID s. r. o. is a manufacturer focused on the production of fasteners, shut-off and control valves of stainless steels. These valves are especially designed for the transport of liquids in the food, chemical and the pharmaceutical industry. It is simultaneously also the supplier of pipe fittings and other parts needed for piping systems and components for tanks such as the lid, manwaydoor, level indicator and other components.

Die Gesellschaft NIOB FLUID s.r.o. ist ein Hersteller, der auf die Produktion von Verbindungs-, Absperr- und Regulierungsarmaturen aus Edelstahl orientiert ist. Diese Armaturen sind vor allem für den Transport von Flüssigkeiten in der Lebensmittel- und Chemieindustrie und in der Pharmazie bestimmt. Die Gesellschaft ist gleichzeitig auch Lieferant von Rohrverbindungsstücken und weiteren Teilen, die für die Rohrleitungen erforderlich sind, und von Behälterteilen wie Hauben, Luken, Standgläser und weitere Komponenten.



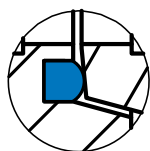
NIOB FLUID s. r. o.

Ostrožská 1003, 687 25 Hluk, Czech Republic

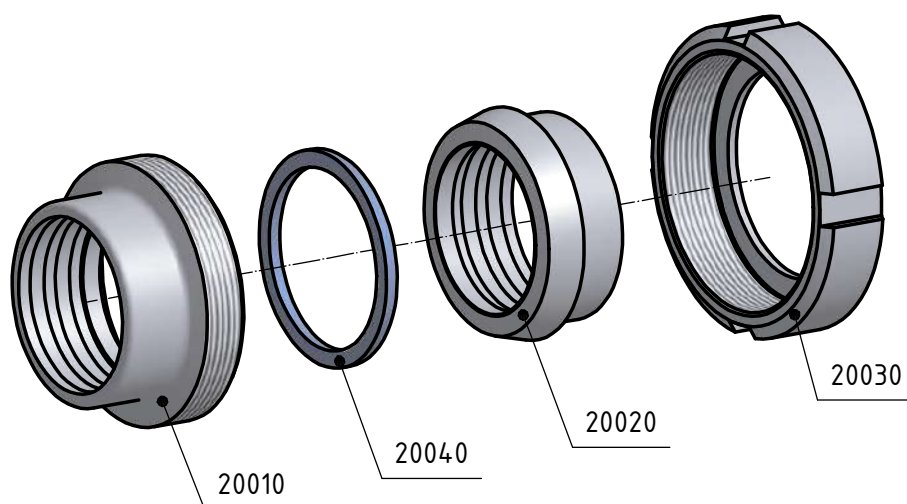
Phone: + 420 572 419 822, + 420 572 419 823, Fax: + 420 572 419 868

E-mail: marketing@niobfluid.cz, www.niobfluid.cz

Komponents / Komponenten



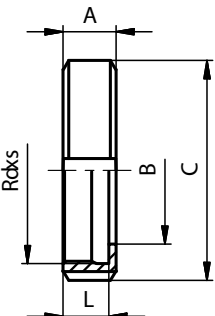
Detail gasket
Detail der Dichtung

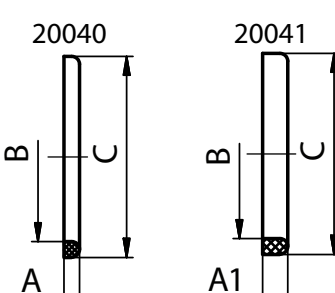


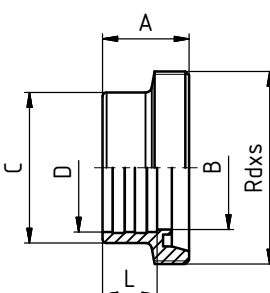
Standard gasket / Standard dichtung - NBR

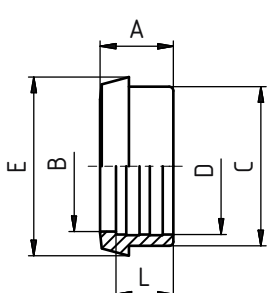
Technical drawing of a bolt and nut assembly. The drawing shows a bolt with a hexagonal head and a nut. Dimensions are indicated as follows:

- A**: Width of the bolt head.
- B**: Thickness of the nut.
- C**: Total height of the assembly (nut + bolt head).
- E**: Total height of the bolt head.
- Rdxs**: Radius of the bolt head.

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

Welding union

Anschweißverschraubung

20120
DIN 11 851
Description

Beschreibung


Expanding union 20120, DIN 11 851

- Simple installation
- Easy gasket exchange

Einwalzverschraubung 20120, DIN 11 851

- Einfache die Dichtung austauschen
- Einfache Installation

Dimensions/Bau Maße: DN 10 - DN 150

Thread / Gewinde: DIN 405

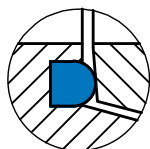
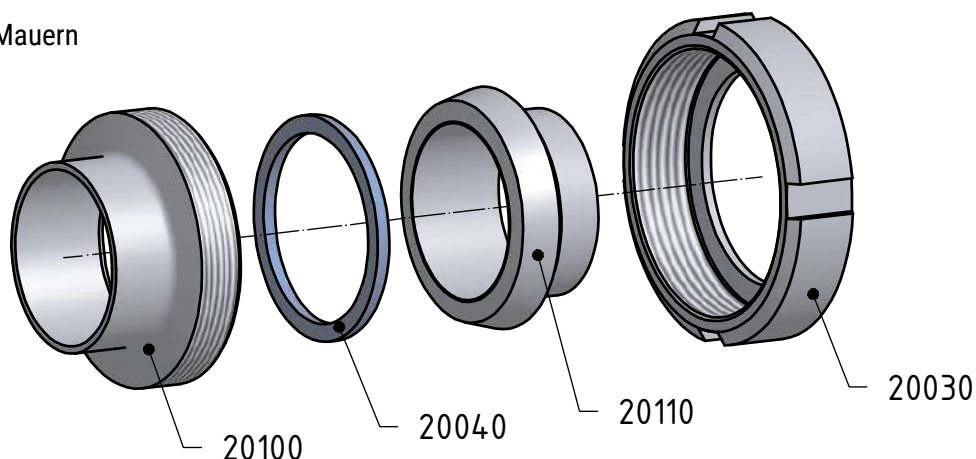
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtung: NBR
EPDM
Viton
Silikon
PTFE

Komponents / Komponenten

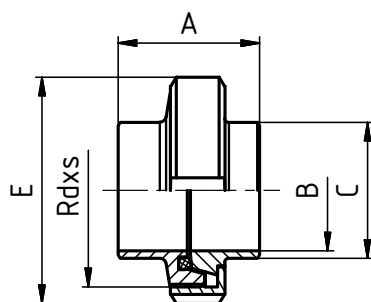
Strength of the walls / Stärke der Mauern

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

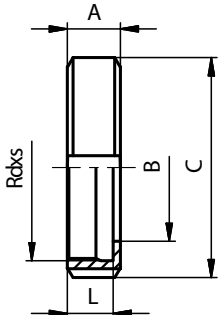

 Detail gasket
Detail der Dichtung


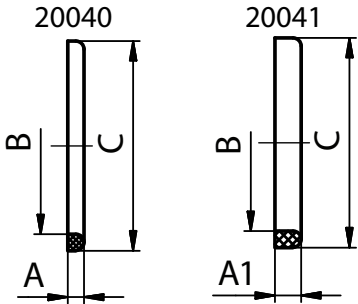
Standard gasket / Standard dichtung - NBR

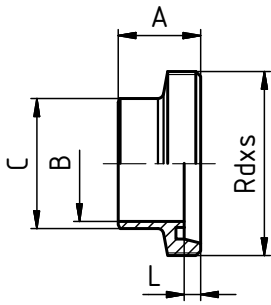
 Welding union - complete
Anschweißverschraubung - komplett

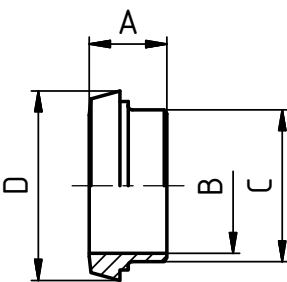
20120
DIN 11 851
Dimensions • Bau Maße


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

Welding union - Type "R" Anschweißverschraubung - Typ "R"

20120 R
DIN 11 851

Description Beschreibung



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/Bau Maße: DN 10 - DN 150

Thread / Gewinde: DIN 405

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

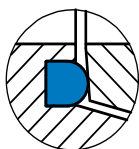
Gasket / Dichtung: NBR
EPDM
Viton
Silikon
PTFE

Komponents / Komponenten

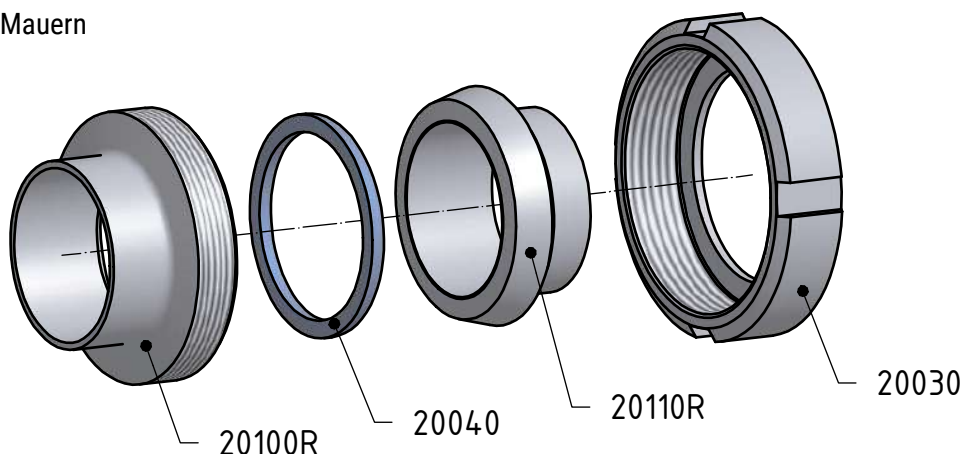
Strength of the walls / Stärke der Mauern

DN 10 - 50 1,5 mm

DN 50 - 150 2,0 mm



Detail gasket
Detail der Dichtung

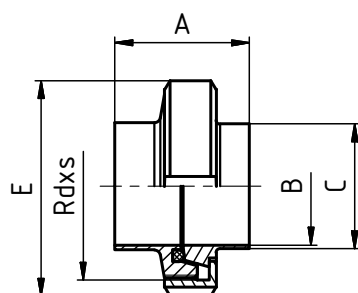


Standard gasket / Standard dichtung - NBR

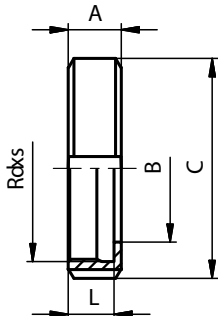
Welding union - complete Anschweißverschraubung - komplett

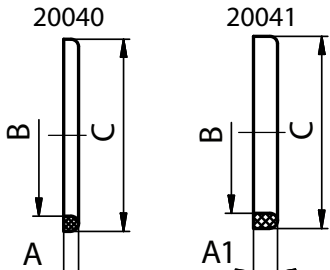
20120 R
DIN 11 851

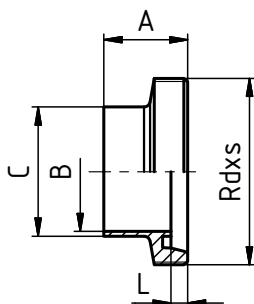
Dimensions • Bau Maße

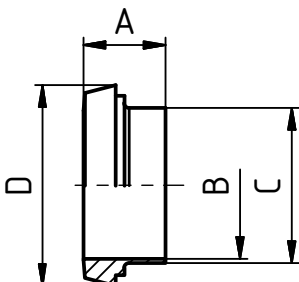


DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	35	10	13		38				28 x 1/8"	0,13
15	35	16	19		44				34 x 1/4"	0,16
20	37	20	23		54				44 x 1/6"	0,28
25	45	26	29		63				52 x 1/6"	0,37
32	51	32	35		70				58 x 1/6"	0,45
40	53	38	41		78				65 x 1/6"	0,53
50	57	50	53		92				78 x 1/6"	0,67
65	65	66	70		112				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

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

Welding union - Type "T"

Anschweißverschraubung - Typ "T"

20120 T
Description

Beschreibung


Welding union 20120 - T, DIN 11 851

- Simple installation
- Easy gasket exchange

Anschweißverschraubung 20120 - T, DIN 11 851

- Einfache die Dichtung austauschen
- Einfache Installation

Dimensions/Baumaße: DN 10 - DN 150

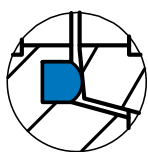
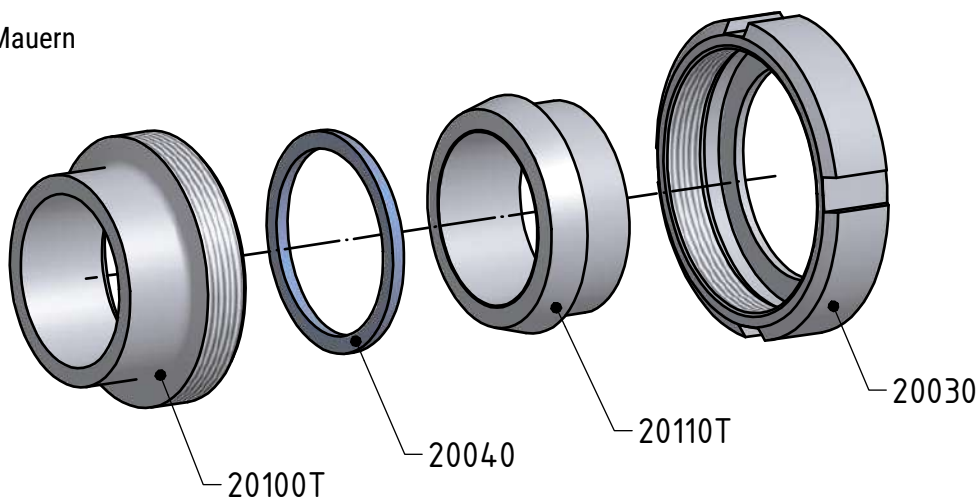
Thread / Gewinde: DIN 405

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

Gasket / Dichtung: NBR
EPDM
Viton
Silikon
PTFE

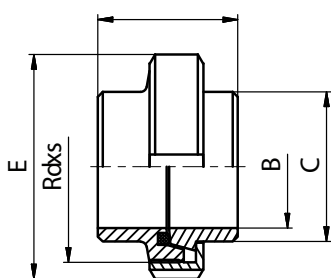
Komponents / Komponenten
Strength of the walls / Stärke der Mauern

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

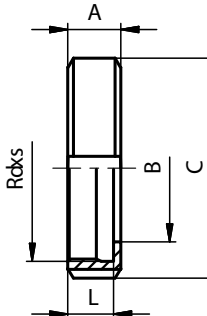

 Detail gasket
Detail der Dichtung


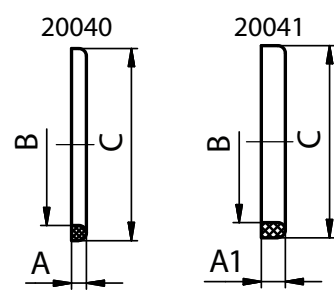
Standard gasket / Standard dichtung - NBR

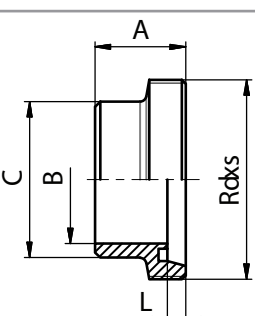
 Welding union - complete
Anschweißverschraubung - komplett

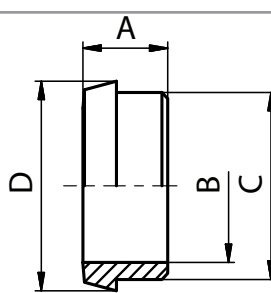
20120 T
Dimensions • Baumaße


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

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

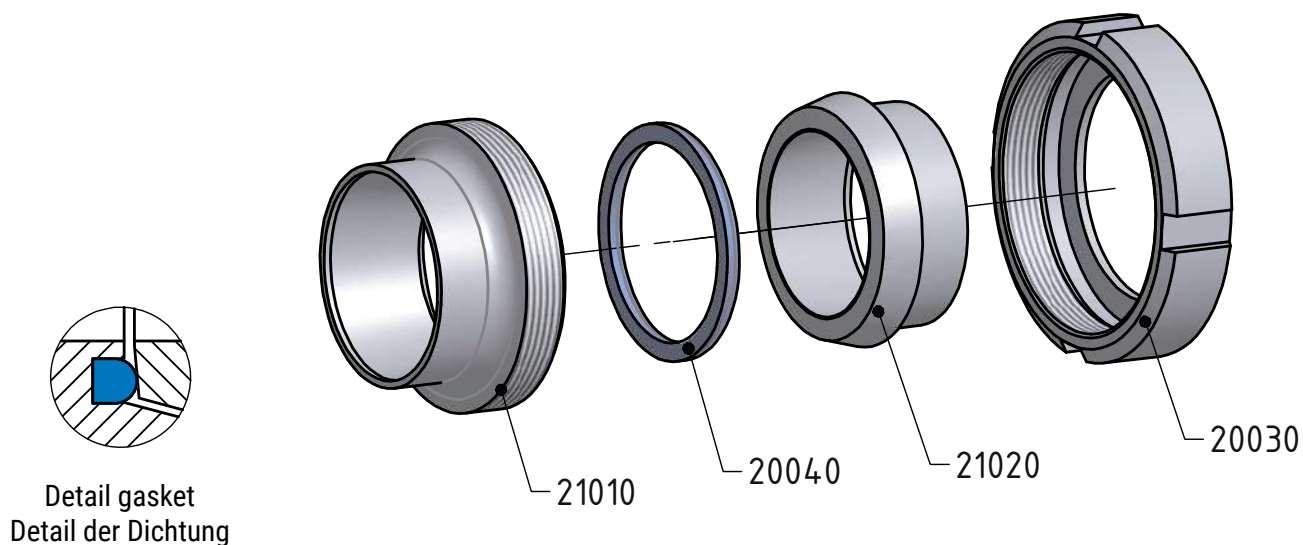
Gasket Dichtring	20040	20041	Dimensions • Baumaße										
	DIN 11 851		DN	A	A1	B	C	E	F	R	L	thread DIN 405 Rd x s	kg
			10	4	-	12	20						0,0012
			15	4	-	18	26						0,0016
			20	4	-	23	33						0,0026
			25	5	8	30	40						0,0036
			32	5	8	36	46						0,0040
			40	5	8	42	52						0,0048
			50	5	8	54	64						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

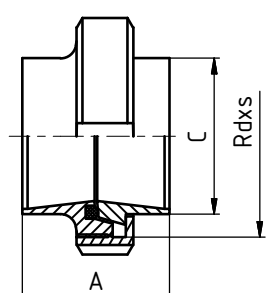
Welding liner Anschweißkegelstutzen	20110 T	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	17	10	18	22,5						0,03
		15	17	16	24	28,5						0,04
		20	18	20	30	36,5						0,07
		25	22	26	35	44						0,10
		32	25	32	41	50						0,14
		40	26	38	48	56						0,17
		50	28	50	61	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

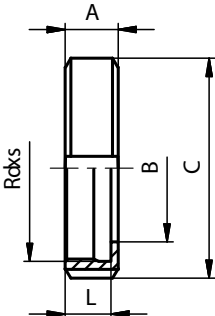
Welding union ISO Anschweißverschraubung ISO	21030	Description Beschreibung
	ISO	
		<p>Welding union 21030 ISO</p> <ul style="list-style-type: none"> - Simple instalation - Easy gasket exchange <p>Anschweißverschraubung 21030 ISO</p> <ul style="list-style-type: none"> - Einfache die Dichtung austauschen - 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>

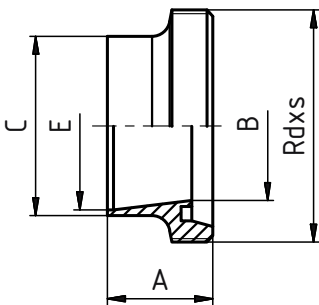
Komponents / Komponenten

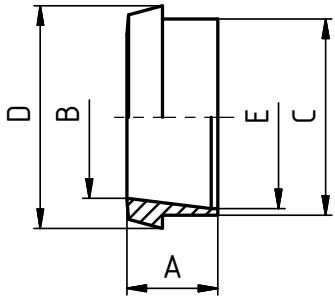


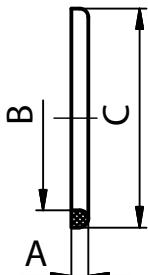
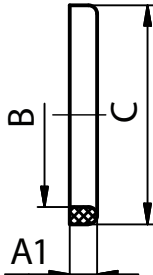
Standard gasket /Standard Dichtring - EPDM

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

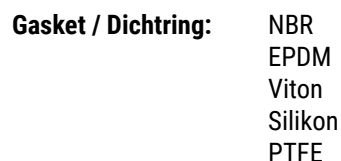
Nut Nutmutter	20030	Dimensions • Baumaße										
	DIN 11 851	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
		10	18	19	38					15	28x1/8"	0,07
		15	18	25	44					15	34x1/8"	0,08
		20	20	31	54					17	44x1/6"	0,14
		25	21	36	63					18	52x1/6"	0,18
		32	21	42	70					18	58x1/6"	0,22
		40	21	49	78					18	65x1/6"	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

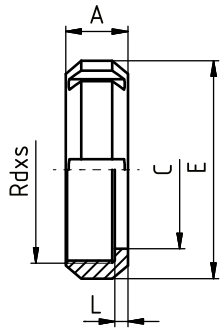
Gasket Dichtring	20040	20041	Dimensions • Baumaße										
	DIN 11 851		DN	A	A1	B	C	E	F	R	L	thread DIN 405 Rd x s	kg
<div><div><div>20040</div></div><div><div>20041</div></div></div>	10	4	-	12	20								0,0012
	15	4	-	18	26								0,0016
	20	4	-	23	33								0,0026
	25	5	8	30	40								0,0036
	32	5	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

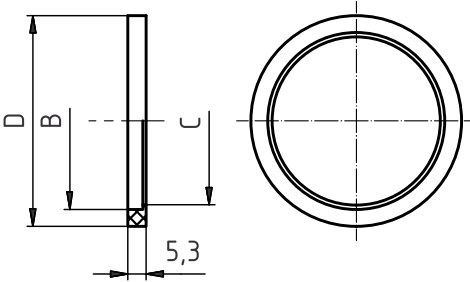
Beschreibung



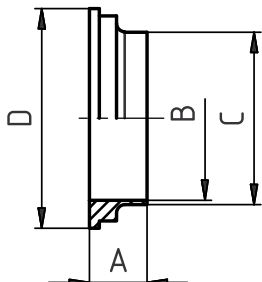
Standard gasket /Standard Dichtring - EPDM

[illegible]

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	

Clamp union - S - DIN Clampverbindung - S - DIN

21250
Description
Beschreibung

DIN 32 676


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

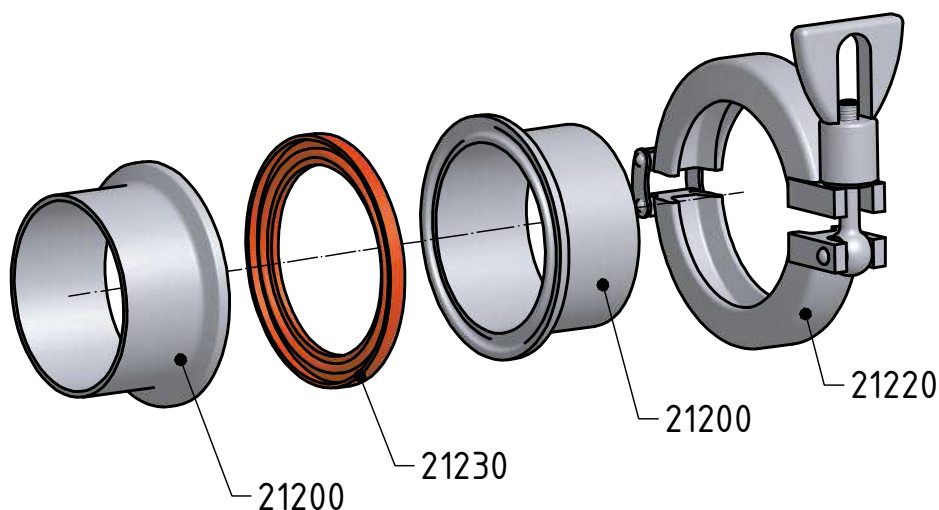
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtring: Silikon
PTFE - Viton
Viton
EPDM

Komponents / Komponenten

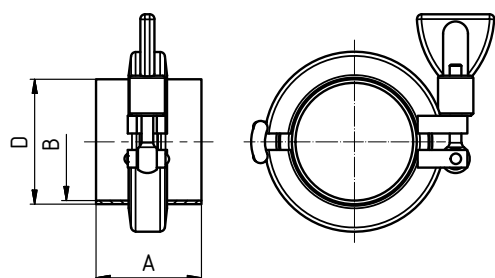


Detail gasket
Detail der Dichtung

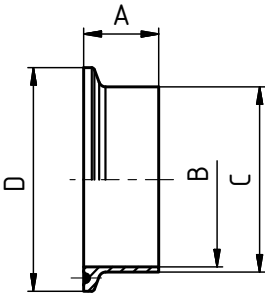


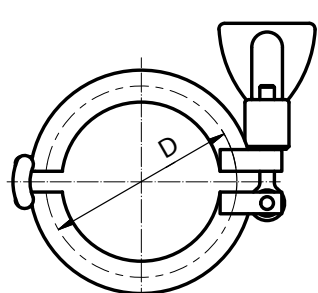
Standard gasket /Standard Dichtring - Silikon

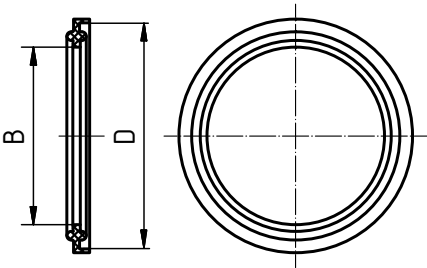
Clamp union - S - DIN - complete Clampverbindung - S - DIN - komplett

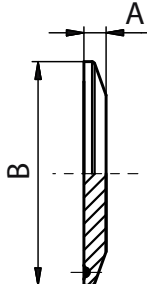
21250
Dimensions • Baumaße
DIN 32 676


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

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

Clamp union - S - SMS
Clampverbindung - S - SMS

21252

SMS

Description Beschreibung



Clamp union - S - SMS 21252

- Simple instalation
- Easy gasket exchange

Clampverbindung - S - SMS 212552

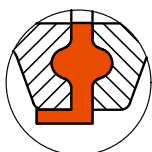
- Einfache die Dichtung austauschen
- Einfache Installation

Dimensions / Baumaße: DN 10 - DN 150

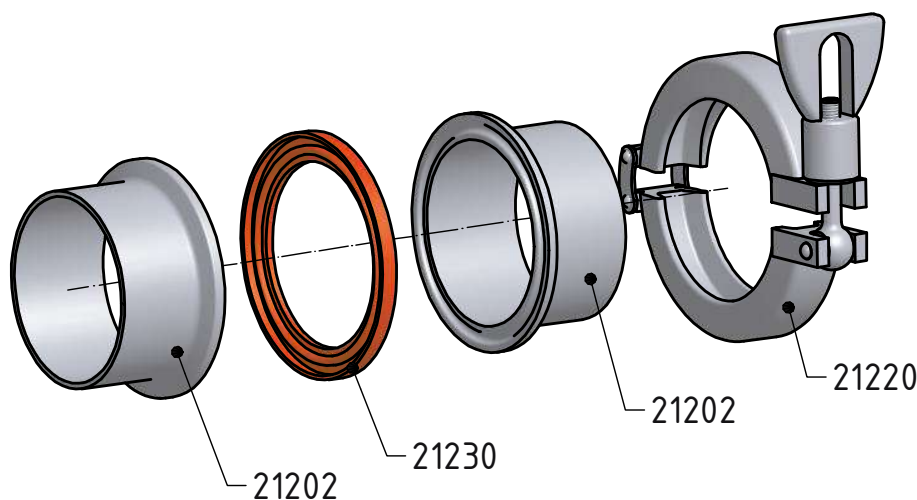
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtring: Silikon
PTFE - Viton
Viton
EPDM

Komponents / Komponenten



Detail gasket
Detail der Dichtung



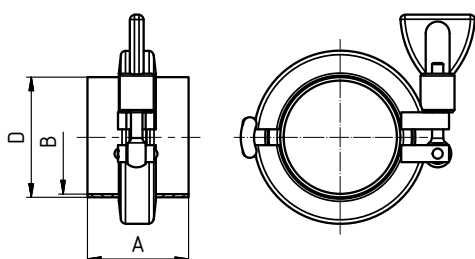
Standard gasket /Standard Dichtring - Silikon

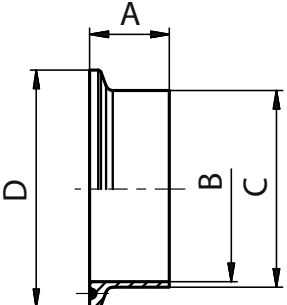
Clamp union - S - SMS - complete
Clampverbindung - S - SMS - komplett

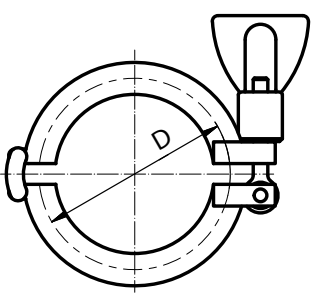
21252

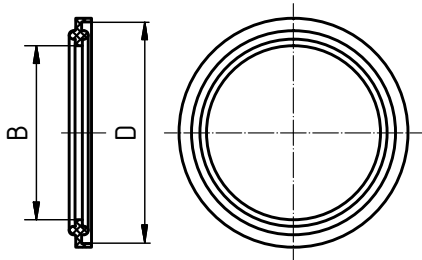
SMS

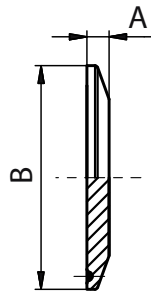
Dimensions • Baumaße

[illegible]

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

Welding union

Anschweißverschraubung

22320
DIN 11 853
Description

Beschreibung


Welding union 22320, DIN 11 853-1

- Simple instalation
- Easy gasket exchange

Anschweißverschraubung 22320, DIN 11 853-1

- Einfache die Dichtung austauschen
- Einfache Installation

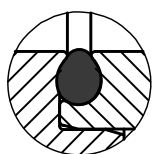
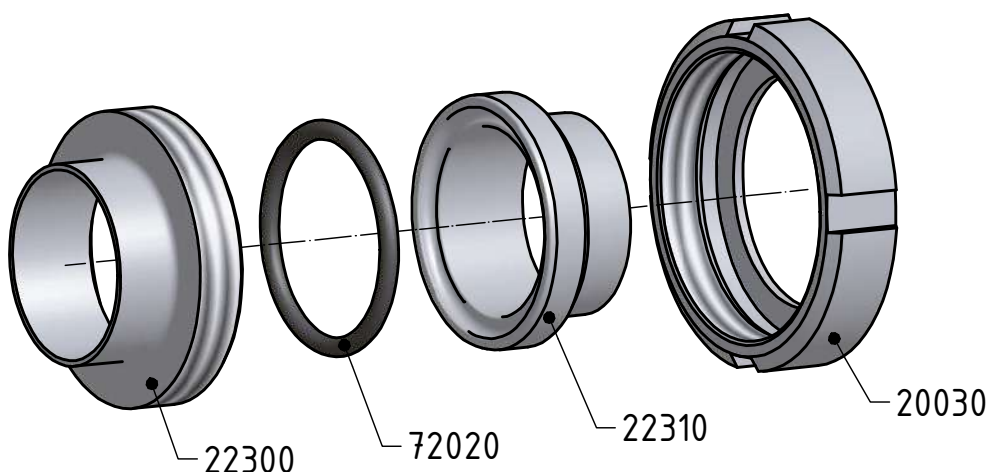
Baumaße / Dimensions: DN 10 - DN 100

Thread / Gewinde: DIN 405

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

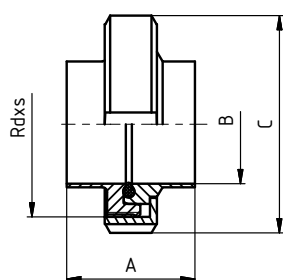
Dichtring / Gasket: NBR
EPDM
Viton

Komponents / Komponenten

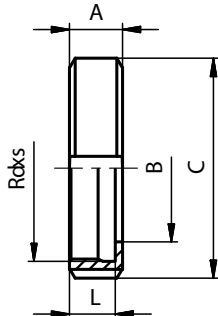

 Detail gasket
Detail der Dichtung


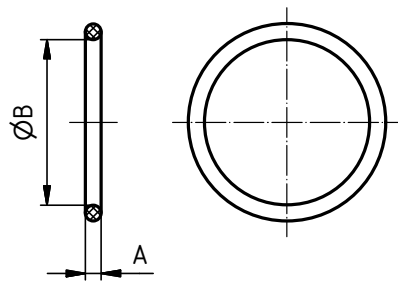
Standard gasket /Standard Dichtring - EPDM

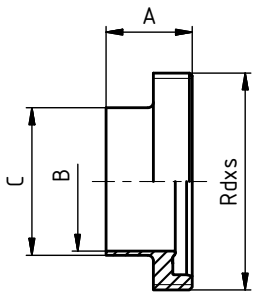
 Welding union - complete
Anschweißverschraubung - komplett

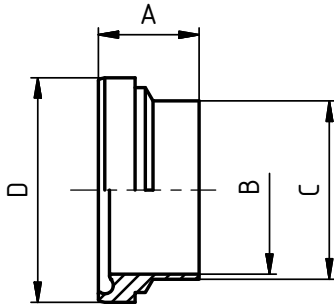
22320
DIN 11 853
Dimensions • Baumaße


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

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	L	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

Welding union

Anschweißverschraubung

22490
DIN 11 864-1-A
Description

Beschreibung


Welding union 22490, DIN 11 864-1

- Simple instalation
- Easy gasket exchange

Anschweißverschraubung 22490, DIN 11 864-1

- Einfache die Dichtung austauschen
- Einfache Installation

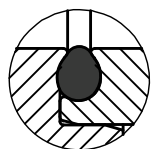
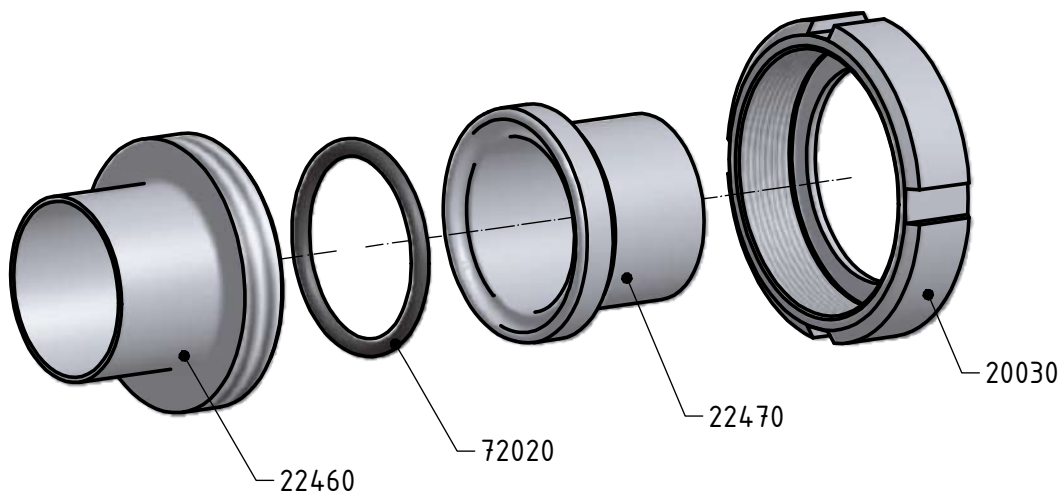
Baumaße / Dimensions: DN 10 - DN 100

Thread / Gewinde: DIN 405

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

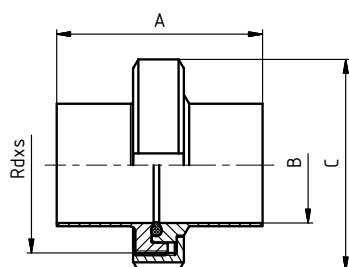
Dichtring / Gasket: NBR
EPDM
Viton

Komponents / Komponenten

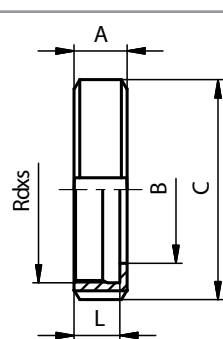

 Detail gasket
Detail der Dichtung


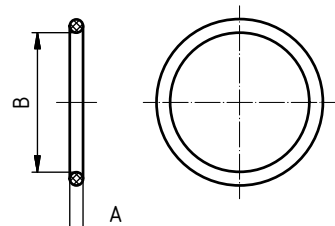
Standard gasket /Standard Dichtring - EPDM

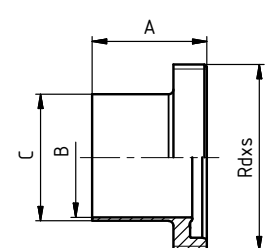
 Welding union - complete
Anschweißverschraubung - komplett

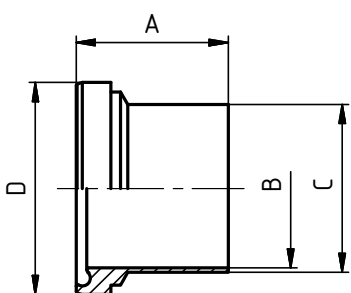
22490
DIN 11 864-1-A
Dimensions • Baumaße


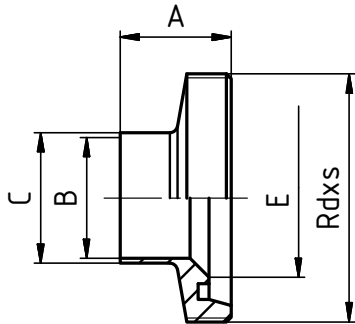
DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	76	10	38						28x1/8"	0,08
15	76	16	44						34x1/8"	0,11
20	76	20	54						44x1/6"	0,19
25	77	26	63						52x1/6"	0,26
32	88	32	70						58x1/6"	0,31
40	88	38	78						65x1/6"	0,36
50	89	50	92						78x1/6"	0,50
65	113	66	112						95x1/6"	0,86
80	117	81	127	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

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

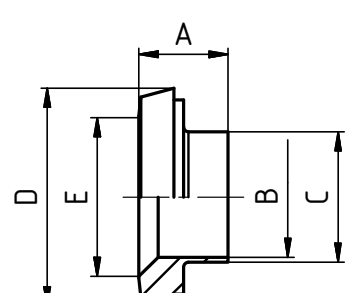
Reducing male part Reduziergewindestutzen	20230	Dimensions • Baumaße										
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	20/10	24	10	13			20				44x1/6"	
	20/15	24	16	19			20				44x1/6"	
	25/10	29	10	13			26				52x1/6"	
	25/15	29	16	19			26				52x1/6"	
	25/20	29	20	23			26				52x1/6"	
	32/15	32	16	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

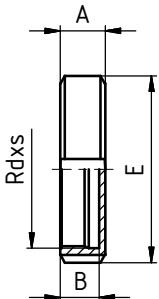
Reduzierkegelstutzen

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

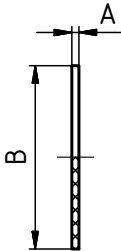
Blind nut with boss

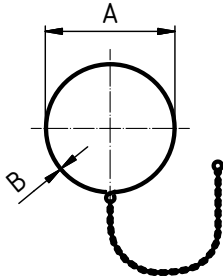
Blindmutter mit knopf

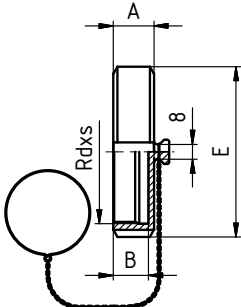
20260

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									

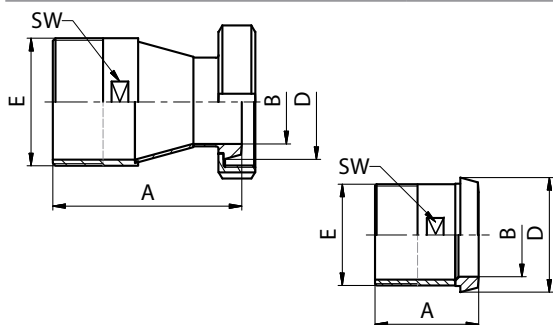
Chain with hook and eye Kette mit haken und öse	20280	Dimensions • Baumaße											
		DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg	
		10	18	1,25									
		15	24	1,25									
		20	28	1,25									
		25	34	1,25									
		32	41	1,25									
		40	46	1,25									
		50	57	1,25									
		65	75	1,4		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

Liner threaded outside
Einschraub kegelstutzen

20360

Dimensions • Baumaße

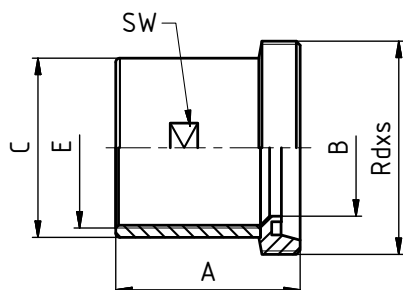


DN	A	B	C	D	E	F	R	SW	thread DIN 405 Rd x s	kg
10	37	10		22,5	3/8"			15		0,04
15	40	16		28,5	1/2"			20		0,06
20	47	20		36,5	3/4"			25		0,11
25	50	26		44	1"			32		0,16
32	54	32		50	1 1/4"			40		0,19
40	54	38		56	1 1/2"			45		0,25
50	57	50		68,5	2"			57		0,35
65	66	66		86	2 1/2"			73		0,55
80	75	81		100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

Male threaded inside
Aufschraub gewindestutzen

20370

Dimensions • Baumaße

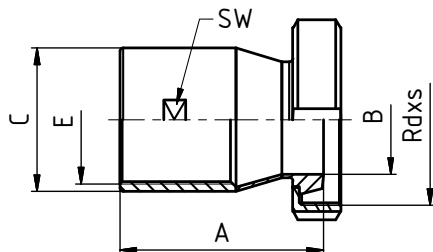


DN	A	B	C	D	E	F	R	SW	thread DIN 405 Rd x s	kg
10	31	10	20,5		3/8"			19	28x1/8"	0,06
15	31	16	25		1/2"			24	34x1/8"	0,08
20	35	20	32		3/4"			30	44x1/6"	0,15
25	38	26	37		1"			35	52x1/6"	0,19
32	40	32	46		1 1/4"			44	58x1/6"	0,23
40	41	38	52,5		1 1/2"			51	65x1/6"	0,28
50	43	50	65,5		2"			63	78x1/6"	0,41
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

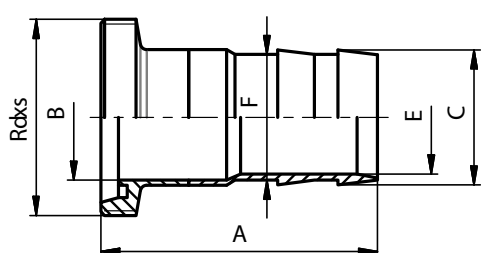


DN	A	B	C	D	E	F	R	SW	thread DIN 405 Rd x s	kg
10	44	10	20,5		3/8"			19	28x1/8"	0,13
15	50	16	25		1/2"			24	34x1/8"	0,17
20	53	20	32		3/4"			30	44x1/6"	0,26
25	53	26	37		1"			35	52x1/6"	0,35
32	60	32	46		1 1/4"			44	58x1/6"	0,43
40	65	38	52,5		1 1/2"			51	65x1/6"	0,52
50	67	50	65,5		2"			63	78x1/6"	0,75
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

A technical drawing of a stepped shaft. The shaft has a total length A . It features a central step of width F . The diameter of the left end is D , and the diameter of the right end is C . The distance from the left end to the start of the step is B , and the distance from the end of the step to the right end is E . The drawing uses standard engineering conventions, including hatching for the cross-sections at the ends and a dashed line to indicate the hidden part of the shaft behind the step.

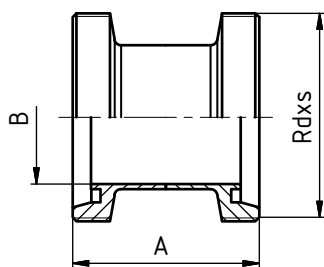
A technical drawing of a mechanical part, likely a shaft or a component of a machine. The drawing shows a cross-section with various dimensions labeled with letters and numbers. The dimensions are: A (width of the base), B (height of the base), C (total height), D (height of the upper section), E (height of the lower section), and F (height of the central section). The drawing includes a hatched area indicating a specific material or finish.

A technical drawing of a stepped shaft with six different diameters. The dimensions are labeled as follows: A is the total length of the shaft; B is the length of the first (leftmost) step; C is the length of the last (rightmost) step; D is the diameter of the first step; E is the diameter of the last step; and F is the diameter of the central section. The shaft is shown in a perspective view with a cross-section at the center.

Connecting piece G - G
Kupplungsstück G - G

20570

Dimensions • Baumaße

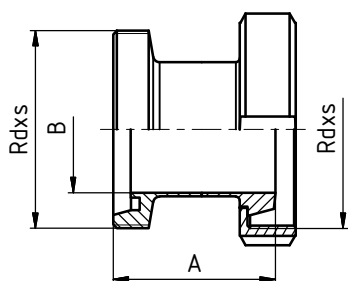


DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	42	10							28x1/8"	0,09
15	42	16							34x1/8"	0,11
20	48	20							44x1/6"	0,21
25	58	26							52x1/6"	0,28
32	64	32							58x1/6"	0,36
40	66	38							65x1/6"	0,46
50	70	50							78x1/6"	0,67
65	80	66							95x1/6"	1,06
80	90	81							110x1/4"	1,41
100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

Connecting piece K/M - G
Kupplungsstück K/M - G

20580

Dimensions • Baumaße

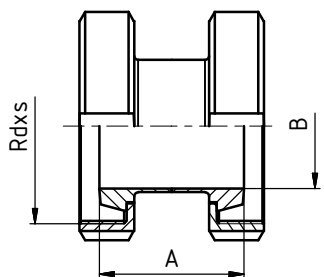


DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	42	10							28x1/8"	0,13
15	42	16							34x1/8"	0,16
20	48	20							44x1/6"	0,28
25	58	26							52x1/6"	0,39
32	64	32							58x1/6"	0,47
40	66	38							65x1/6"	0,55
50	70	50							78x1/6"	0,77
65	80	66							95x1/6"	1,24
80	90	81							110x1/4"	1,73
100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

Connecting piece K/M - K/M
Kupplungsstück K/M - K/M

20590

Dimensions • Baumaße

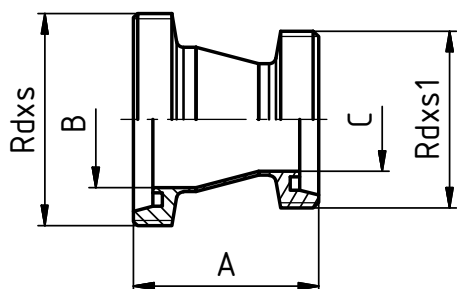


DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	34	10							28x1/8"	0,18
15	34	16							34x1/8"	0,22
20	36	20							44x1/6"	0,38
25	44	26							52x1/6"	0,54
32	50	32							58x1/6"	0,66
40	52	38							65x1/6"	0,76
50	56	50							78x1/6"	1,06
65	64	66							95x1/6"	1,72
80	74	81							110x1/4"	2,36
100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

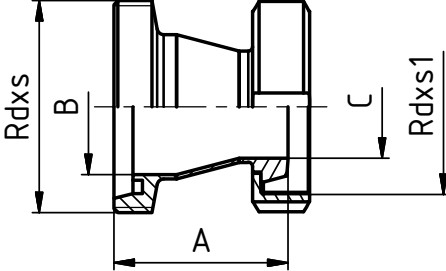
Reducing piece G - G
Reduzierstück G - G

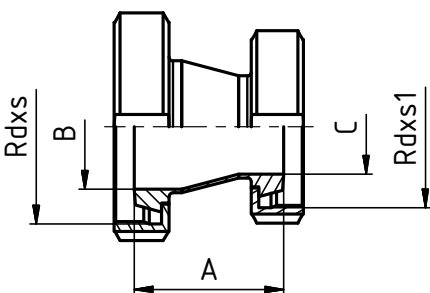
20630

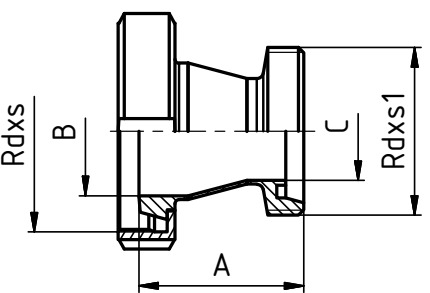
Dimensions • Baumaße

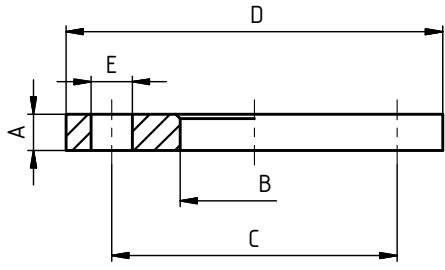


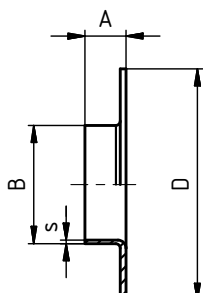
DN	A	B	C	D	E	F	thread DIN 405 Rd x s	thread DIN 405 Rd x s1	kg
32/25	55	32	26				58x1/6"	52x1/6"	0,36
40/25	66	38	25				65x1/6"	52x1/6"	0,40
40/32	55	38	32				65x1/6"	58x1/6"	0,46
50/32	78	50	32				78x1/6"	58x1/6"	0,61
50/40	68	50	38				78x1/6"	65x1/6"	0,67
65/40	98	66	38				95x1/6"	65x1/6"	1,00
65/50	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

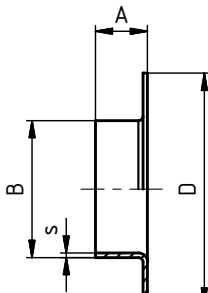
Reducing piece G - K/M Reduzierstück G - K/M	20640	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	thread DIN 405 Rd x s	thread DIN 405 Rd x s1	kg
		32/25	51	32	26				58x1/6"	52x1/6"	0,47
		40/25	62	38	26				65x1/6"	52x1/6"	0,50
		40/32	59	38	32				65x1/6"	58x1/6"	0,55
		50/32	74	50	32				78x1/6"	58x1/6"	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

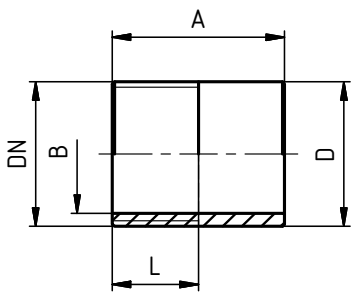
Reducing piece K/M - K/M Reduzierstück K/M - K/M	20650	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	thread DIN 405 Rd x s	thread DIN 405 Rd x s1	kg
		32/25	47	32	26				58x1/6"	52x1/6"	0,66
		40/25	58	38	26				65x1/6"	52x1/6"	0,71
		40/32	47	38	32				65x1/6"	58x1/6"	0,76
		50/32	70	50	32				78x1/6"	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

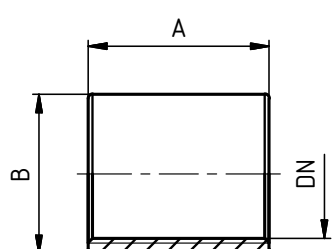
Reducing piece K/M - G Reduzierstück K/M - G	20660	Dimensions • Baumaße									
		DN	A	B	C	D	E	F	thread DIN 405 Rd x s	thread DIN 405 Rd x s1	kg
		32/25	51	32	26				58x1/6"	52x1/6"	0,47
		40/25	62	38	25				65x1/6"	52x1/6"	0,50
		40/32	59	38	32				65x1/6"	58x1/6"	0,55
		50/32	74	50	32				78x1/6"	58x1/6"	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	kg
	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

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

Flange connection PN 10 Flanschverbindung PN 10

20720
DIN 2576

Description Beschreibung



Flange connection PN 10

- Simple instalation
- Easy gasket exchange

Flanschverbindung PN 10

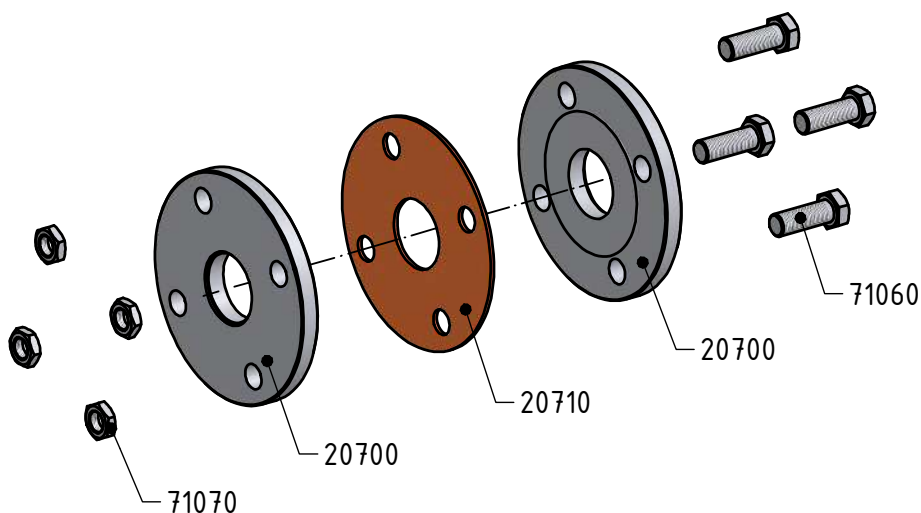
- Einfache installation
- Einfache die Dichtung austauschen

Dimensions / Baumaße: DN 10 - DN 150

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

Gasket / Dichtring: NBR
EPDM
Viton

Komponents / Komponenten

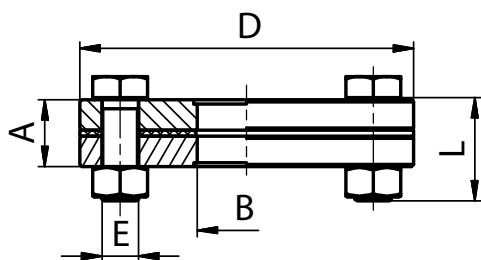


Standard gasket / Standard Dichtring - NBR

Flange connection PN 10 - complete Flanschverbindung PN 10 - komplett

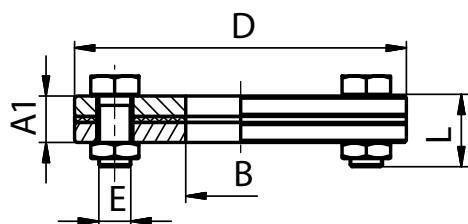
20720
DIN 2576

Dimensions • Baumaße



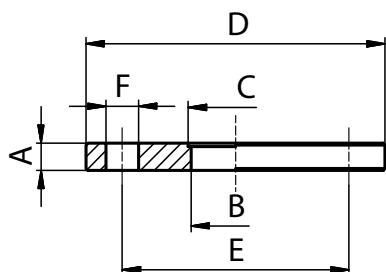
DN	A	B	C	D	E	F	R	L	Rd x s	kg
10	31	10		90	4 x M14			40		1,30
15	31	16		95	4 x M14			40		1,40
20	31	20		105	4 x M14			45		2,00
25	31	26		115	4 x M14			45		2,30
32	31	32		140	4 x M18			50		3,50
40	31	38		150	4 x M18			50		4,00
50	31	50		165	4 x M18			55		5,10
65	32	66		185	4 x M18			55		6,00
80	36	81		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

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

20720 ECO
DIN 2576
Dimensions • Baumaße


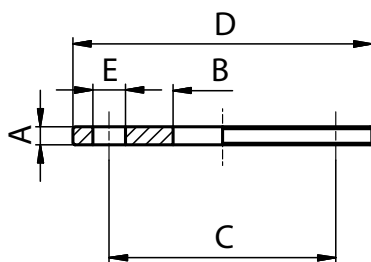
DN	A1	B	D	E	L	F	G	H	thread DIN 405 Rd x s	kg
10	23	17,7	90	4 x M14	35					1,20
15	23	18,6	95	4 x M14	35					1,30
20	23	26	105	4 x M14	35					1,60
25	23	31	115	4 x M14	35					1,80
32	23	39	140	4 x M18	40					2,80
40	23	45,5	150	4 x M18	40					3,10
50	23	54,5	165	4 x M18	40					3,80
65	24	71	185	4 x M18	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
DIN 2576
Dimensions • Baumaße


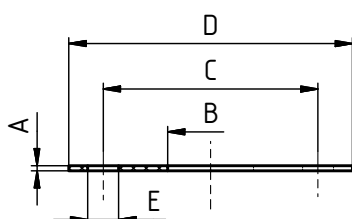
DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	14	10	12,2	90	60	14x4				0,50
15	14	16	18,2	95	65	14x4				0,60
20	14	20	22,2	105	75	14x4				0,85
25	14	26	28,2	115	85	14x4				1,11
32	14	32	34,2	140	100	18x4				1,64
40	14	38	40,2	150	110	18x4				1,80
50	14	50	52,2	165	125	18x4				2,30
65	14	66	70,3	185	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
DIN 2576
Dimensions • Baumaße


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
DIN 2576
Dimensions • Baumaße


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					

Flange connection PN 16

Flanschverbindung PN 16

20740
DIN 2633

Description

Beschreibung



Flange connection PN 16 DIN 2633

- Simple instalation
- Easy gasket exchange

Flanschverbindung PN 16 DIN 2633

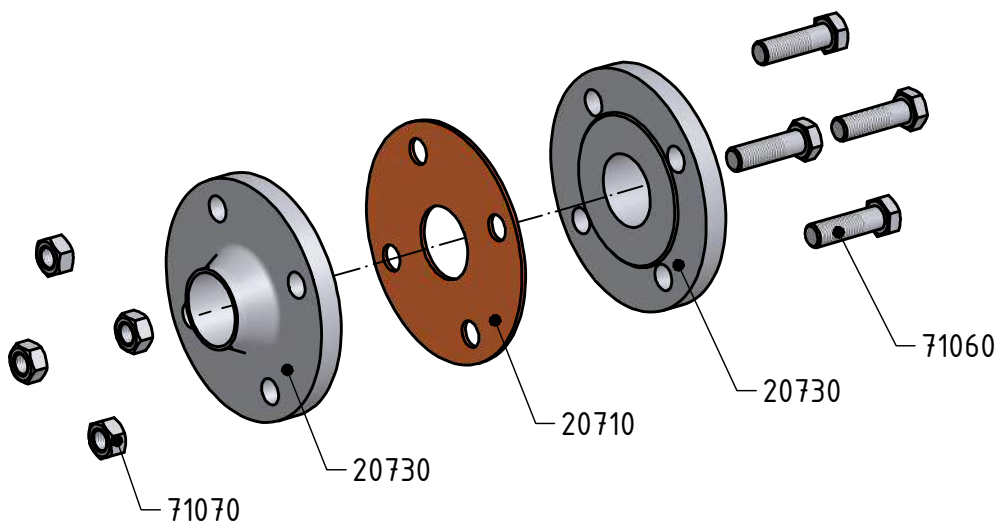
- Einfache installation
- Einfache die Dichtung austauschen

Dimensions / Baumaße: DN 10 - DN 150

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

Gasket / Dichtring: NBR
EPDM
Viton

Komponents / Komponenten



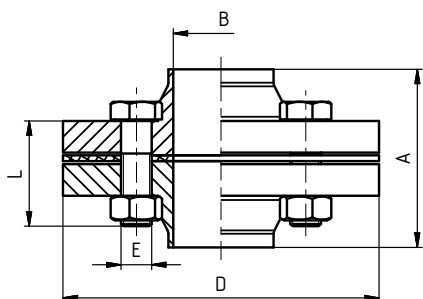
Standard gasket /Standard Dichtring - NBR

Flange connection PN 16 - complete

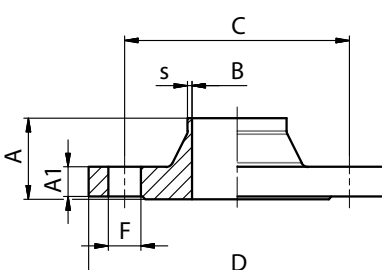
Flanschverbindung PN 16 - komplett

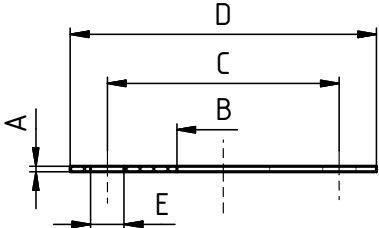
20740
DIN 2633

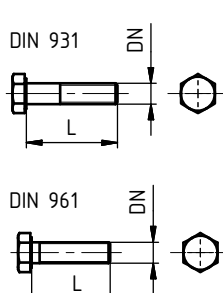
Dimensions • Baumaße




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

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	
<div>DIN 934</div> <div></div>		M8											
		M10											
		M12											
		M14											
		M16											
		M18											
		M22											

Flange connection complete PN 10 Flanschverbindung komplett PN10

20420

Description Beschreibung



Flange connection PN 10

- Simple instalation
- Easy gasket exchange

Flanschverbindung PN 10

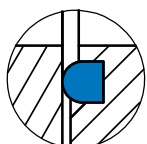
- Einfache installation
- Einfache die Dichtung austauschen

Dimensions / Baumaße: DN 10 - DN 150

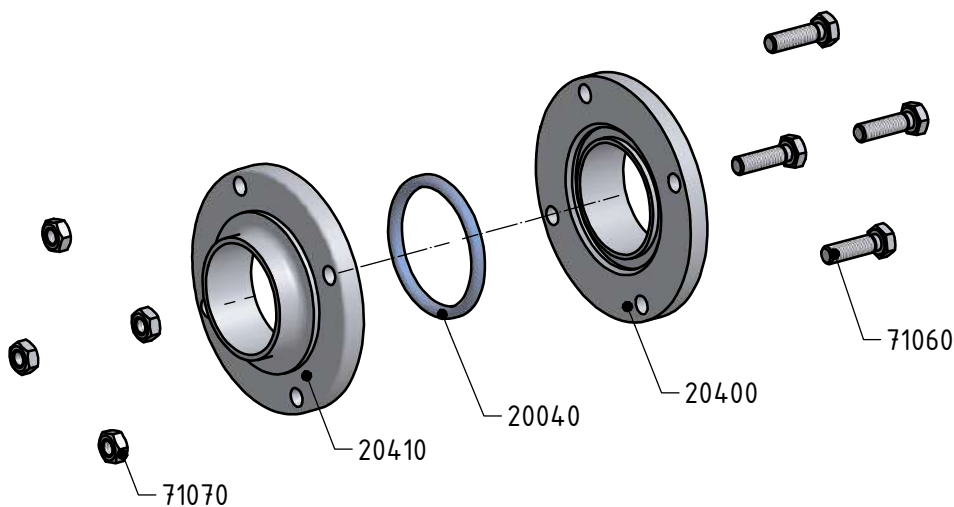
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtring: NBR
EPDM
Viton

Komponents / Komponenten



Detail gasket
Detail der Dichtung

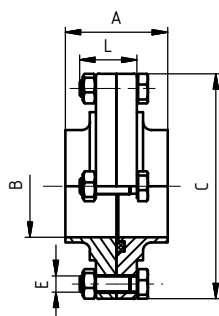


Standard gasket /Standard Dichtring - NBR

Flange connection PN 10 - complete Flanschverbindung PN 10 - komplett

20420

Dimensions • Baumaße

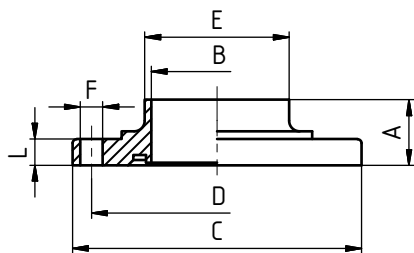


DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
10	40	10	62		4 x M8			25		0,40
15	40	16	68		4 x M8			25		0,52
20	40	20	75		4 x M8			30		0,58
25	40	26	87		4 x M8			30		0,78
32	40	32	92		4 x M8			30		0,92
40	50	38	97		4 x M8			30		0,94
50	50	50	110		4 x M8			30		1,18
65	50	66	127		4 x M8			30		1,50
80	60	81	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

Flange PN 10 with groove
Kleinflansch PN mit Nut

20400

Dimensions • Baumaße

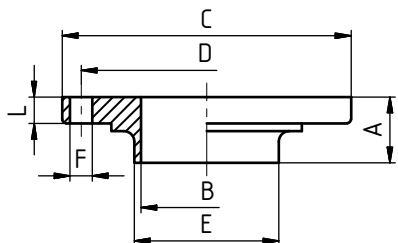


DN	A	B	C	D	E	F	R	L	kg
10	20	10	62	44	15	8,5x4		10	0,20
15	20	16	68	50	21	8,5x4		10	0,26
20	20	20	75	59	25	8,5x4		10	0,29
25	20	26	87	73	31	8,5x4		10	0,39
32	20	32	92	78	37	8,5x4		10	0,46
40	25	38	97	82,5	43	8,5x4		10	0,47
50	25	50	110	95,5	55	8,5x4		10	0,59
65	25	66	127	112,5	72	8,5x4		10	0,75
80	30	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



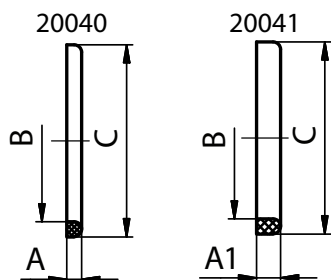
DN	A	B	C	D	E	F	R	L	kg
10	20	10	62	44	15	8,5x4		10	0,20
15	20	16	68	50	21	8,5x4		10	0,26
20	20	20	75	59	25	8,5x4		10	0,29
25	20	26	87	73	31	8,5x4		10	0,39
32	20	32	92	78	37	8,5x4		10	0,46
40	25	38	97	82,5	43	8,5x4		10	0,47
50	25	50	110	95,5	55	8,5x4		10	0,59
65	25	66	127	112,5	72	8,5x4		10	0,75
80	30	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

20040

20041

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

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

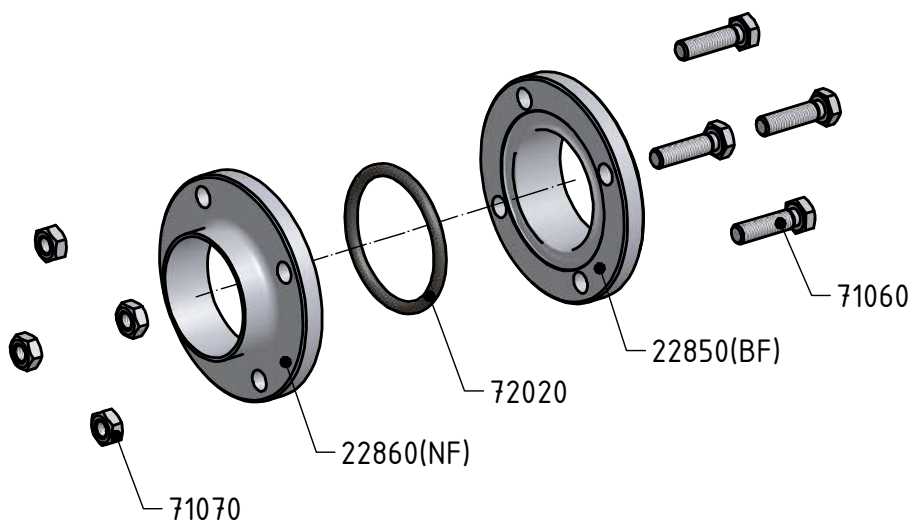
Material / Material: 1.4301 (AISI 304)
1.4404 (AISI 316L)

Gasket / Dichtring: EPDM
Viton

Komponents / Komponenten



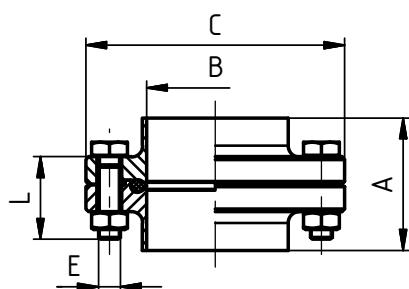
Detail gasket
Detail der Dichtung



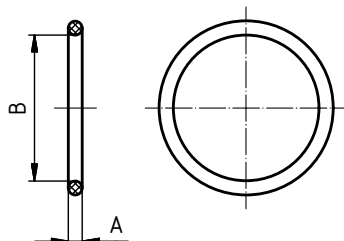
Standard gasket /Standard Dichtring - EPDM

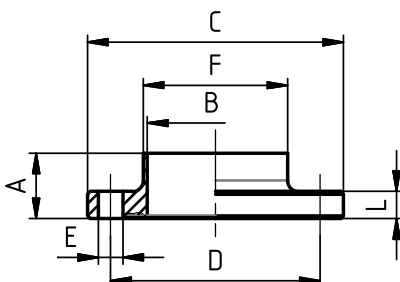
Hygienic flange connection PN10 - complete

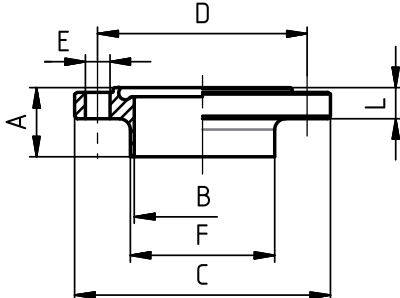
Hygiene flanschverbindung PN 10 -komplett

22870
Dimensions • Baumaße
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

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

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

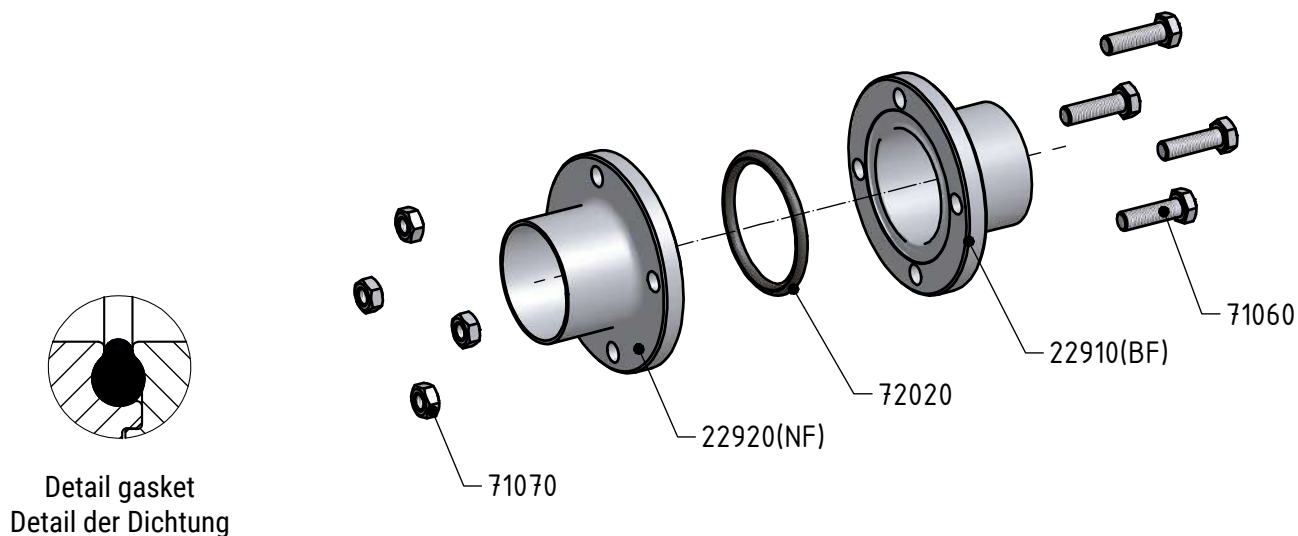
- Einfache installation
- Einfache die Dichtung austauschen

Dimensions / Baumaße: DN 10 - DN 150

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

Gasket / Dichtring: EPDM
Viton

Komponents / Komponenten

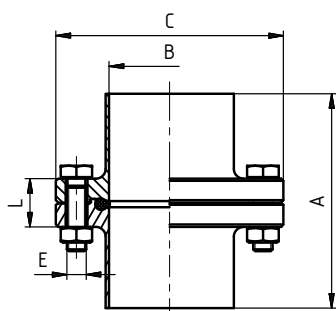


Standard gasket /Standard Dichtring - EPDM

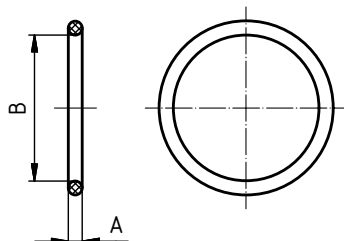
Aseptic flange connection PN10 - complete Aseptic flanschverbindung PN 10 - komplett

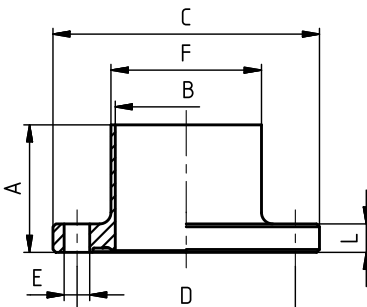
22930
DIN 11 864-2-A

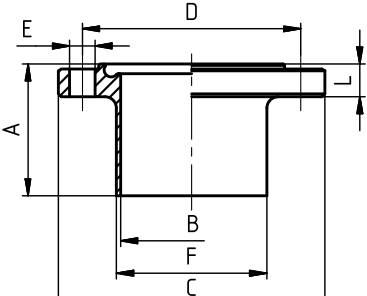
Dimensions • Baumaße



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		

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

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

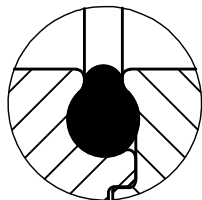
- Einfache die Dichtung austauschen
- Einfache Installation

Dimensions / Baumaße: DN 10 - DN 100

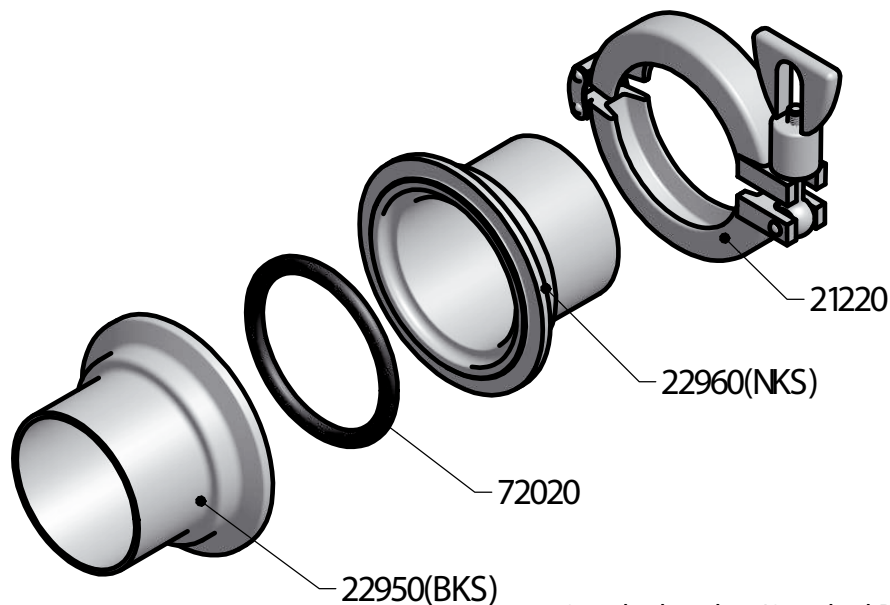
Material / Material: 1.4404 (AISI 316L)

Gasket / Dichtring: Silikon, EPDM, PTFE / Viton

Komponents / Komponenten



Detail gasket
Detail der Dichtung



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

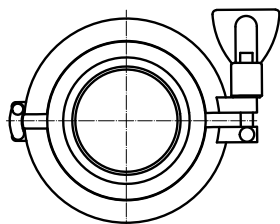
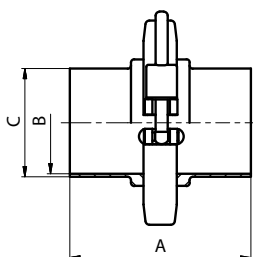
Clamp union S DIN 11964-3
- complete

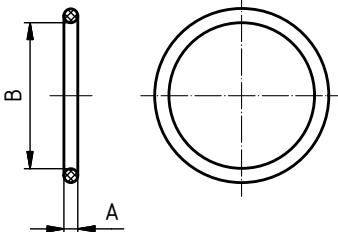
Clampverbindungen S DIN 11864-3 - komplett

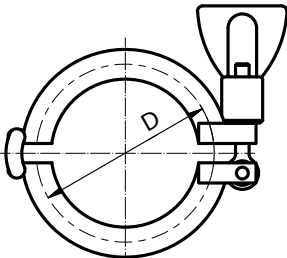
22970

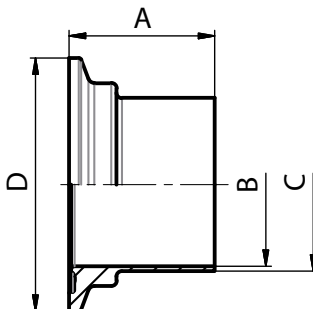
DIN 11864-3

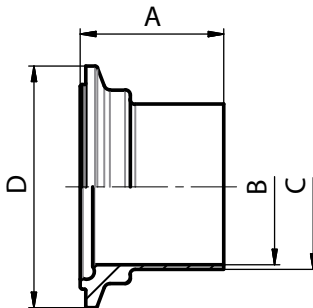
Dimensions • Baumaße

[illegible]

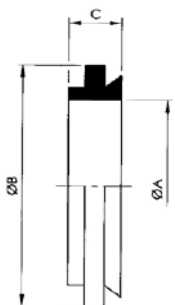
Gasket - O-ring Dichtring - O-ring	72020	Dimensions • Baumaße										
	DIN 11864-3	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	3,5	12									0,0012
	15	3,5	18									0,0016
	20	3,5	22									0,0026
	25	3,5	28									0,0036
	32	5	34									0,0040
	40	5	40									0,0048
	50	5	52									0,0062
	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

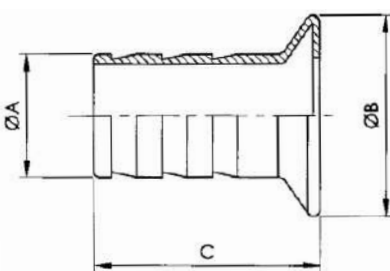
Clamp TC-Klammer leichte Ausführung	21220	Dimensions • Baumaße							
	DIN 11864-3	DN	SMS	DIN	C	D			kg
		1/2"	12,7	-		25			
		3/4"	19,05	-		25			
		15	-	15		34			
		20	-	20		34			
		1"	25	25		50,5			
		32	-	32		-			
		1 1/2"	38	40		50,5			
		2"	51	50		64			
		65	-	65		91			
		2 1/2"	63,5	-		77,5			
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

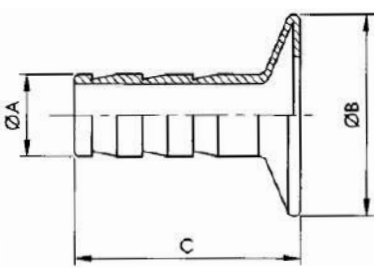
Clamp ferrule S (BKS) Klampsutzen S (BKS)	22950 (BKS)	Dimensions • Baumaße										
	DIN 11864-3	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	38	10	13	34							
	15	38	16	19	34							
	20	38	20	23	50,5							
	25	38,5	26	29	50,5							
	32	44	32	35	50,5							
	40	44	38	41	64							
	50	44,5	50	53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

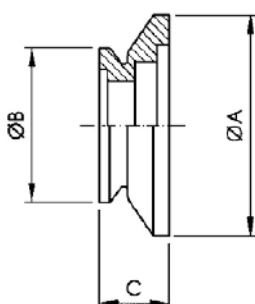
Clamp ferrule S (NKS) Klampsutzen S (NKS)	22960 (NKS)	Dimensions • Baumaße										
	DIN 11864-3	DN	A	B	C	D	E	F	R	L	thread DIN 405 Rd x s	kg
	10	39,5	10	13	34							
	15	39,5	16	19	34							
	20	39,5	20	23	50,5							
	25	40	26	29	50,5							
	32	45,5	32	35	50,5							
	40	45,5	38	41	64							
	50	46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

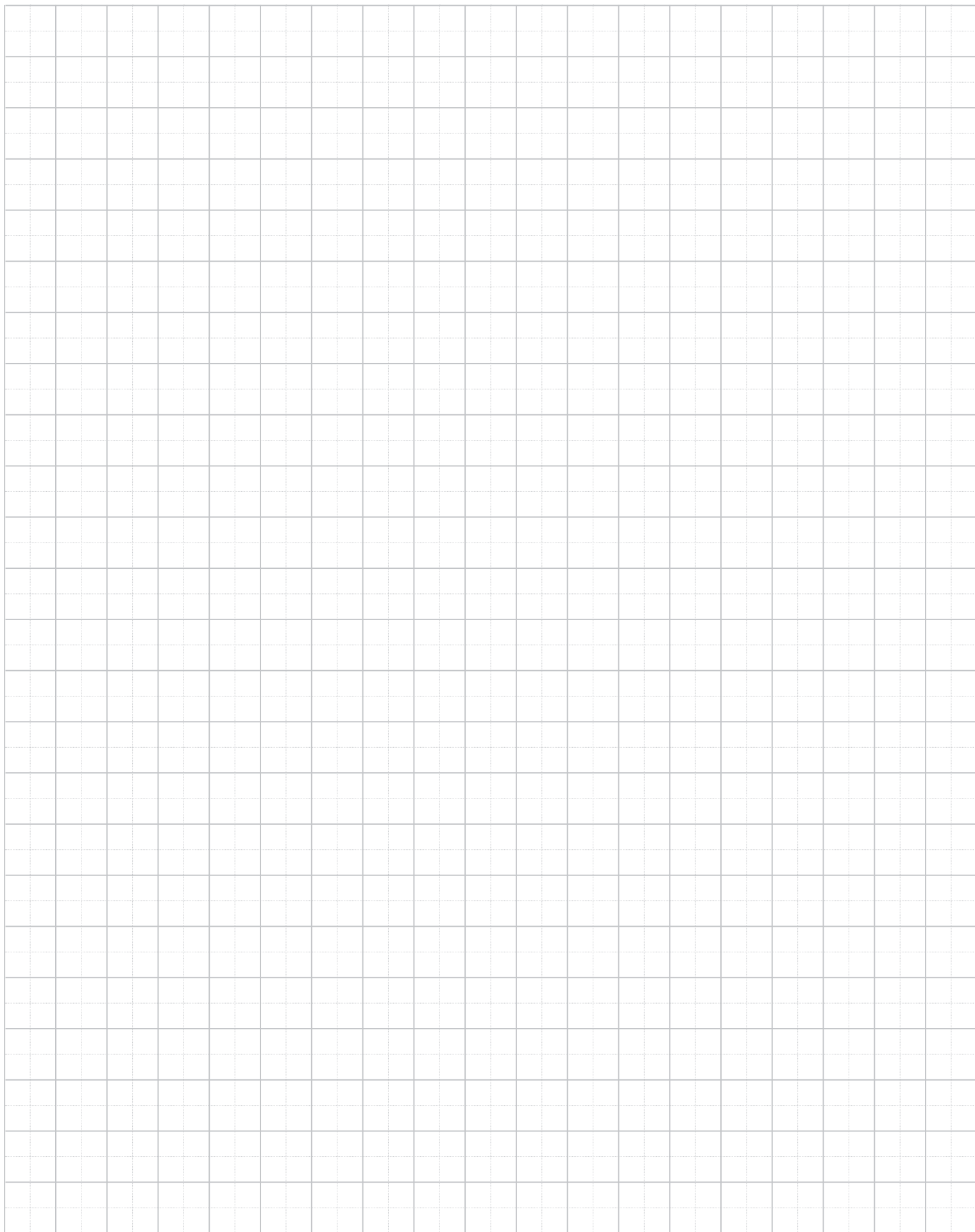
[illegible][illegible][illegible][illegible]

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	kg
		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							



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

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:

- butt welding
- 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.

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 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"					

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 Eigenschaft gute Beständigkeit gegenüber Alkoholen	gute Quellbeständigkeit bei: • verdünnte anorg.- und organische Säuren, Medien, oxidierend wirkende Medien, Laugen und Kationen • 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					



PRODUCER OF STAINLESS PIPING SYSTEMS
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