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# 1. Pressure Covers



# Pressure Covers

## 1.1 Round Pressure Cover

up to 8/-1 bar

## 1.2 Round Pressure Cover

from 10/-1 bar

## 1.3 Round Pressure Cover

up to 8/-1 bar Type RPDC-3A; acc. 3A-84-... Sanitary Standard

## 1.4 1-bar-Cover

up to 1/-1 bar

## 1.5 Pressure Cone Cover

up to 6/-1 bar

## 1.6 Oval Pressure Cover

up to 10/-1 bar

## 1.7 Automatic Pressure Cover

up to 8/-1 bar



# 1.1 Round Pressure Cover

up to 8/-1 bar

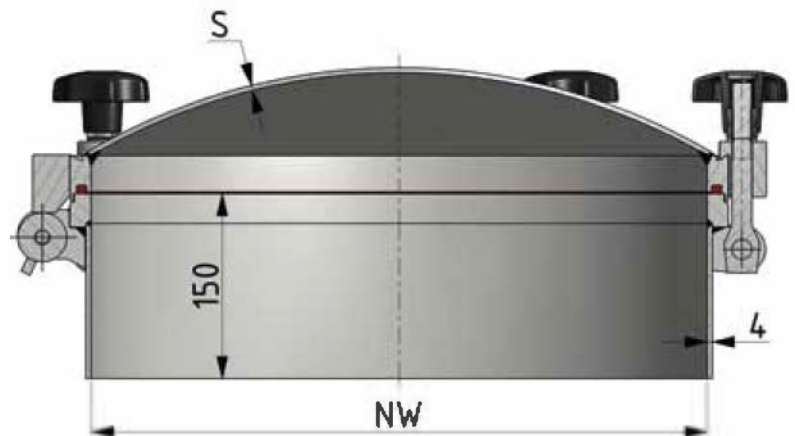
## Standard design

- Wetted material: 1.4571 or 1.4404  
Attachment parts: 1.4301
- Plastic handles with stainless steel insert
- Silicone-gasket
- With hinge and handle
- Neck length 150 mm, Neck thickness 4 mm
- Surface: unpolished, glass-bead blasted; from NW600 unpolished, pickled
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt



## Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Intermediate sizes
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to  $R_a < 0,2 \mu\text{m}$ )
- Neck length up to 2000 mm, neck thickness up to 20 mm
- Conical design of the neck (up to max. 8 mm neck thickness)
- Neck shaped to match tank-diameter
- Cover side swiveling
- Various handles: stainless steel handle, toggle, nuts etc.
- With wedge for side installation
- Locking pin in open position
- Springassists (torsion-, disc-, or gaspring)
- Installation of nozzles (sightglasses, TC-Ferrules (DIN32676), HZ-Connect, etc.)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- Attachment parts in other materials
- Various Design Codes: ASME VIII-1, EN13445, ...
- Optional with ASME-Approval Sec. VIII-1, latest Edition (additional surcharge, design-changes possible)



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Stand: Juni 2015



Article No.	NW	MAWP [bar]	max. temperature [°C]	Number of screws M16	Total height [mm]	S for 1.4571	Weight [kg]	Price in EUR
20162004	100	6	200	4	180	6	9	
21562004	150	6	200	4	185	5	11	
22062004	200	6	200	4	190	4	14	
22542804	250	4	280	4	195	4	16	
22582504	250	8	250	4	195	5	17	
23042504	300	4	250	4	200	3	18	
23062506	300	6	250	6	200	4	21	
23082506	300	8	250	6	200	5	22	
23542004	350	4	200	4	215	3	21	
23562006	350	6	200	6	215	4	24	
24042804	400	4	280	4	230	3	24	
24060506	400	6	50	6	230	4	27	
24062808	400	6	280	8	230	4	28	
24082810	400	8	280	10	230	5	31	
24542806	450	4	280	6	240	3	28	
24562508	450	6	250	8	240	4	31	
24582010	450	8	200	10	240	5	34	
25032806	500	3	280	6	255	3	31	
25042808	500	4	280	8	255	3	33	
25062510	500	6	250	10	255	4	38	
25081512	500	8	150	12	255	5	40	
26022806	600	2	280	6	285	3	42	
26040508	600	4	50	8	285	3	44	
26042810	600	4	280	10	285	4	46	
26061512	600	6	150	12	285	4	49	
26080512	600	8	50	12	285	5	53	
27022808	700	2	280	8	295	4	56	
27042812	700	4	280	12	295	5	64	
27061516	700	6	150	16	295	5	70	
27080518	700	8	50	18	295	6	78	
28020508	800	2	50	8	300	4	76	
28022810	800	2	280	10	300	4	78	
28041514	800	4	150	14	300	4	82	
28060518	800	6	50	18	300	5	90	
28080520	800	8	50	20	300	6	97	
29022812	900	2	280	12	320	4	87	
29042018	900	4	200	18	320	5	103	
29061022	900	6	100	22	320	6	115	
29080524	900	8	50	24	320	6	128	
21022812	1000	2	280	12	340	5	110	
21042022	1000	4	200	22	340	5	118	
21060524	1000	6	50	24	340	6	125	

Gaskets see chapter 9.1



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# 1.2 Round Pressure Cover

from 10/-1 bar

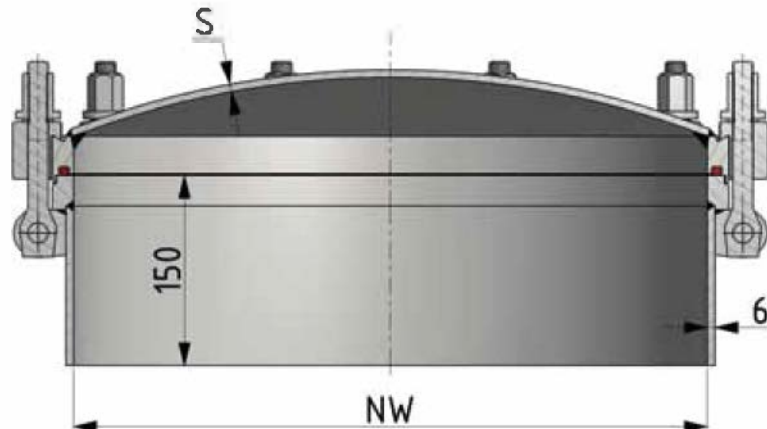
## Standard design

- Wetted materials: 1.4571 or 1.4404  
Attachment parts: 1.4301
- Collar nuts (not capped)
- Silicone gasket
- Without hinge, with two handles on the lid
- Neck length 150 mm, Neck thickness 6 mm
- Surface: unpolished, glass-bead blasted; from NW600 unpolished, pickled
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt



## Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- With hinge (if possible)
- Intermediate sizes
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,2 \mu m$ )
- Neck length up to 2000 mm, neck thickness up to 20 mm
- Conical design of the neck (up to max. 8 mm neck thickness)
- Neck shaped to match tank-diameter
- Cover side swiveling
- Various handles: stainless steel handle, toggle, nuts etc.
- With wedge for side installation
- Locking pin in open position
- Springassists (torsion-, disc-, or gasspring)
- Installation of nozzles (sightglasses, TC-Ferrules (DIN32676), HZ-Connect, etc.)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- Attachment parts in other materials
- Various Design Codes: ASME VIII-1, EN13445, ...
- Optional with ASME-Approval Sec. VIII-1, latest Edition (additional surcharge, design-changes possible)



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Article No.	NW	MAWP [bar]	max. temperature [°C]	Number of screws M16	Total height [mm]	Radius of head [mm]	S for 1.4571	Weight [kg]	Price in EUR
20102004	<b>100</b>	10	200	4	175	flat	24	9	
20142004	<b>100</b>	40	200	4	175	flat	24	10	
21502004	<b>150</b>	10	200	4	175	flat	24	13	
21542004	<b>150</b>	40	200	4	175	flat	24	14	
22102004	<b>200</b>	10	200	4	175	flat	24	19	
22252006	<b>200</b>	25	200	6	175	flat	24	20	
22402008	<b>200</b>	40	200	8	175	flat	24	22	
22502004	<b>250</b>	10	200	4	175	flat	24	24	
22552008	<b>250</b>	25	200	8	175	flat	24	27	
22502010	<b>250</b>	40	200	10	175	flat	24	29	
23102006	<b>300</b>	10	200	6	200	500	6	23	
23161508	<b>300</b>	16	150	8	200	500	10	27	
23251010	<b>300</b>	25	100	10	200	500	12	29	
23502006	<b>350</b>	10	200	6	215	500	6	28	
23560508	<b>350</b>	16	50	8	215	500	10	33	
23505012	<b>350</b>	25	50	12	215	500	12	40	
24102510	<b>400</b>	10	250	10	230	500	6	33	
24161512	<b>400</b>	16	150	12	230	500	8	41	
24250516	<b>400</b>	25	50	16	230	500	12	47	
24501012	<b>450</b>	10	100	10	240	500	6	39	
24560514	<b>450</b>	16	50	14	240	500	10	48	
25101012	<b>500</b>	10	100	12	255	500	6	45	
25150516	<b>500</b>	16	50	16	255	500	8	55	
25200520	<b>500</b>	20	50	20	255	500	8	62	
26100514	<b>600</b>	10	50	14	285	500	6	52	
26160522	<b>600</b>	16	50	22	285	500	8	65	
27100520	<b>700</b>	10	50	20	295	700	8	87	
27160530	<b>700</b>	16	50	30	295	700	10	104	
28100524	<b>800</b>	10	50	24	300	800	8	115	
28121036	<b>800</b>	12	100	36	300	800	10	133	
29100530	<b>900</b>	10	50	30	320	900	10	139	
21100538	<b>1000</b>	10	50	38	340	1000	10	161	

Gaskets see chapter 9.1



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# 1.3 Round Pressure Cover

Type: RPDC-3A (up to 8/-1 bar)

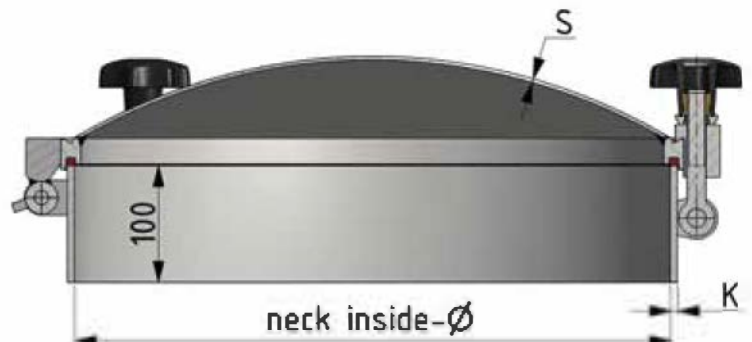
## Standard design

- Wetted material: 1.4404 (316L)  
Attachment parts: 1.4301 (304)
- Stainless steel handles
- Silicone gasket
- Flanges in 3A-Sanitary Standard Design
- Neck length 150 mm, Neck thickness 4 mm
- Surface quality: inside polished  $Ra < 0,8\mu\text{m}$ , outside:  $Ra < 1,6$
- Attachment parts and their fillet welds not polished
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt



## Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Intermediate sizes
- Various gasket qualities (on request)
- Neck length up to 2000 mm, neck thickness up to 20 mm
- Conical design of the neck (up to max. 8 mm neck thickness)
- Neck shaped to match tank-diameter
- Various handles: toggle, nuts etc.
- Various surface qualities (polished up to  $Ra < 0,2\mu\text{m}$ )
- Cover side swiveling
- With wedge for side installation
- Locking pin in open position
- Springassist (torsion-, disc-, oder gasspring)
- Installation of nozzles (sightglasses, TC-ferrules (DIN32676), HZ-Connect, etc.)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- Attachment parts in other materials
- Various Design Codes: ASME VIII-1, EN13445, ...
- Optional with ASME-Approval Sec. VIII-1, latest Edition (additional surcharge, design-changes possible)



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Article No.	NW	MAWP [bar]	max. temperature [°C]	Number of screws M16	Total height [mm]	S for 1.4571	Weight [kg]	Price in EUR
24642006-3A	460	4	200	6	240	5	30	
24662008-3A	460	6	200	8	240	6	34	
24682010-3A	460	8	200	10	240	8	39	
25032006-3A	500	3	200	6	255	4	31	
25042008-3A	500	4	200	8	255	5	35	
25062010-3A	500	6	200	10	255	6	42	
25081512-3A	500	8	150	12	255	8	46	
26022006-3A	600	2	200	6	285	4	42	
26040508-3A	600	4	50	8	285	4	44	
26042010-3A	600	4	200	10	285	5	49	
26061512-3A	600	6	150	12	285	6	52	
26080512-3A	600	8	50	12	285	6	52	
27022006-3A	700	2	200	8	295	4	56	
27042012-3A	700	4	200	12	295	6	64	
27061516-3A	700	6	150	16	295	6	70	
27080518-3A	700	8	50	18	295	6	78	
28020508-3A	800	2	50	8	300	4	76	
28022010-3A	800	2	200	10	300	4	78	
28041514-3A	800	4	150	14	300	6	82	
28060518-3A	800	6	50	18	300	6	90	
28080520-3A	800	8	50	20	300	6	97	
29022010-3A	900	2	200	12	320	5	87	
29042018-3A	900	4	200	18	320	6	103	
29061022-3A	900	6	100	22	320	8	115	
29080524-3A	900	8	50	24	320	8	128	
21022012-3A	1000	2	200	12	340	5	110	
21041522-3A	1000	4	150	22	340	6	118	
21060524-3A	1000	6	50	24	340	6	125	



## 1.4 1-bar Cover

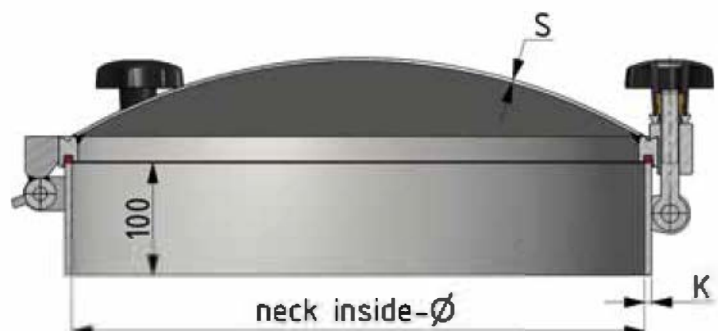
up to 1/-1 bar

### Standard design

- Wetted material: 1.4571 or 1.4404  
Attachment parts: 1.4301
- Plastic handles with stainless steel insert (with PED)
- Plastic handles with brass insert (without PED)
- Silicone gasket
- With hinge and handle
- Neck length 100 mm, Neck thickness 6 mm
- Surface quality: unpolished, glass-bead blasted, from NW600 unpolished, pickled
- With/without approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt (with PED)

### Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Intermediate sizes
- Various gasket qualities
- Neck length up to 2000 mm
- Conical design of the neck (up to max. 8 mm neck thickness)
- Neck shaped to match tank-diameter
- Various handles: Stainless steel handle, toggle, nuts, etc.
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,2\mu m$ )
- Cover side swiveling
- With wedge for side installation
- Locking pin in open position
- Springassist (torsion-, disc-, or gasspring)
- Installation of nozzles (sightglasses, TC-ferrules (DIN32676), HZ-Connect, etc.)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- Attachment parts in other materials
- Various Design Codes: ASME VIII-1, EN13445, ...
- Optional with ASME-Approval Sec. VIII-1, latest Edition (additional surcharge, design-changes possible)



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### with PED (97/23/EC) Approval

Article No.	NW	Neck-inside-diameter	Number of screws M 16	neck thickness K [mm]	thickness of cover S [mm]	Weight [kg]	Price in EUR	Extra cost for 10mm neck extension in 1.4571 / 1.4404 net	Weight of extension [kg]
311 104T	100	111	4	6	3	7			(0,2)
315 104T	150	161	4	6	3	8,5			(0,25)
321 104T	200	211	4	6	3	10			(0,3)
325 104T	250	261	4	6	3	11			(0,4)
331 104T	300	311	4	6	3	13			(0,5)
335 104T	350	361	4	6	3	15,5			(0,6)
341 104T	400	411	4	6	3	18			(0,65)
345 104T	450	461	4	6	3	19,5			(0,75)
351 104T	500	511	4	6	3	21			(0,85)
361 104T	600	611	6	6	3	28			(1,0)
371 104T	700	707	6	8	3	37			(1,2)
381 104T	800	807	8	8	3	40			(1,7)
391 104T	900	907	8	8	4	70			(1,9)
301 104T	1000	1003	10	10	4	86			(2,6)

### without PED (97/23/EC) Approval

Article No.	NW	Neck-inside-diameter	Number of screws M 12	Neck thickness K [mm]	Thickness of cover S [mm]	Weight [kg]	Price in EUR	Extra cost for 10mm neck extension in 1.4571 / 1.4404 net	Weight of extension [kg]
311 104	100	111	4	6	3	7			(0,2)
315 104	150	161	4	6	3	8,5			(0,25)
321 104	200	211	4	6	3	10			(0,3)
325 104	250	261	4	6	3	11			(0,4)
331 104	300	311	4	6	3	13			(0,5)
335 104	350	361	4	6	3	15,5			(0,6)
341 104	400	411	4	6	3	18			(0,65)
345 104	450	461	4	6	3	19,5			(0,75)
351 104	500	511	4	6	3	21			(0,85)
361 104	600	611	6	6	3	28			(1,0)
371 104	700	707	6	8	3	37			(1,2)
381 104	800	807	8	8	3	40			(1,7)
391 104	900	907	8	8	4	70			(1,9)
301 104	1000	1003	10	10	4	86			(2,6)

Gaskets see chapter 9.1



# 1.5 Pressure Cone Cover

up to 6/-1 bar

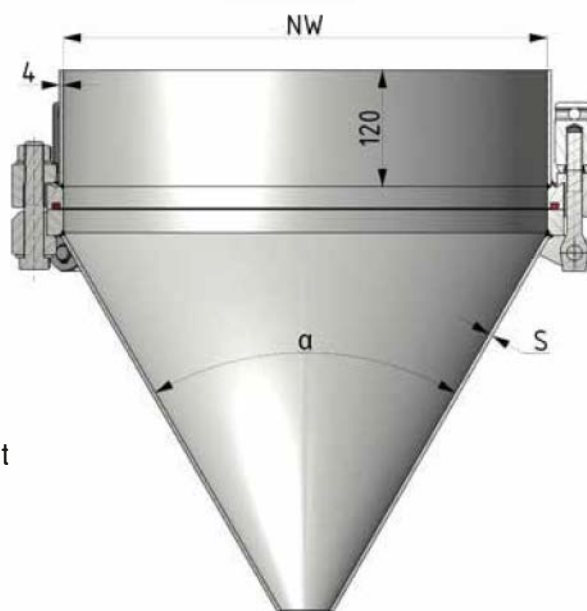
## Standard design

- Wetted material: 1.4571 or 1.4404  
Attachment parts 1.4301
- Stainless steel blind hole nuts
- Silicone gasket
- With Cone-type-swivel-hinge
- Neck length 120 mm, neck thickness 4 mm
- Outlet diameter: Ø50mm
- Surface quality: unpolished, glass-bead blasted, from NW600 unpolished, pickled
- With/without approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt (with PED)



## Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Intermediate sizes
- Various apex-angles
- Various outlet-diameters (min Ø40mm)
- Various gasket qualities
- Neck length up to 2000 mm, neck thickness up to 20 mm
- Neck shaped to match tank-diameter
- Various surface qualities (glass-bead blasted, pickled or polished up to t)
- Complete conical design (up to max. sheet thickness of 8mm)
- Various handles: Collar Nuts, etc.
- Installation of various outlet nozzles
- With various limit- or proximity-switches
- Attachment parts in other Materials
- Various Design Codes: ASME VIII-1, EN13445, ...
- Optional with ASME-Approval Sec. VIII-1, latest Edition (additional surcharge, design-changes possible)



Article No.	NW/α	MAWP [bar]	max. temperature [°C]	Number of screws M16	Total height [mm]	Cone thickness S [mm]	Weight [kg]	Price in EUR
230 060	300 / 60°	6	100	4	385	4	20	
230 090	300 / 90°	6	100	4	275	4	20	
240 060	400 / 60°	6	100	6	470	4	28	
240 090	400 / 90°	6	100	6	325	4	28	
245 060	450 / 60°	6	100	6	520	4	30	
245 090	450 / 90°	6	100	6	350	4	30	
250 060	500 / 60°	6	100	10	560	4	37	
250 090	500 / 90°	6	100	10	375	4	37	
260 060	600 / 60°	6	100	12	645	5	46	
260 090	600 / 90°	6	100	12	425	5	46	

Gaskets see chapter 9.1



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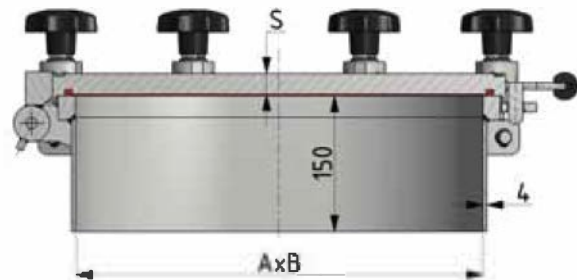
### Standard design

- Wetted material: 1.4571 or 1.4404  
Attachment parts: 1.4301
- Plastic handles with stainless steel insert
- Silicone gasket
- With hinge and plastic-knob
- Neck length 150 mm, neck thickness 4 mm
- Surface quality: unpolished, glass-bead blasted, from NW600 unpolished, pickled
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt



### Optionen

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Intermediate sizes
- Various gasket qualities
- Neck length up to 300 mm, neck thickness up to 12 mm
- Neck shaped to match tank-diameter
- Various handles: Stainless steel handle, toggle, nuts, etc.
- Various surface qualities (glass-bead blasted, pickled or polished up to Ra < 0,2µm)
- Cover side swiveling
- With wedge for side installation
- Locking pin in open position
- Spring assist (torsion-, disc-, oder gasspring)



- Installation of nozzles (sightglasses, TC-ferrules (DIN32676), HZConnect, etc.)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- Attachment parts in other materials
- Various Design Codes: ASME VIII-1, EN13445, ...
- Optional with ASME-Approval Sec. VIII-1, latest Edition (additional surcharge, design-changes possible)

Article No.	A	B	MAWP [bar]	max. temperature [°C]	Number of screws M16	Total height [mm]	S for 1.4571 [mm]	Weight [kg]	Price in EUR
2203042506	200	300	4	250	6	170	16	26	
2203062506	200	300	6	250	6	175	19	28	
2203002506	200	300	10	250	6	180	24	32	
2253542506	250	350	4	250	6	170	16	31	
2253562506	250	350	6	250	6	175	19	34	
2253502508	250	350	10	250	8	180	24	39	
2304042506	300	400	4	250	6	170	16	36	
2304062506	300	400	6	250	6	175	19	42	
2304002510	300	400	10	250	10	180	24	49	
2354542506	350	450	4	250	6	180	24	55	
2354562508	350	450	6	250	8	180	24	56	
2354502512	350	450	10	250	12	180	24	59	
2405042508	400	500	4	250	8	180	24	65	
2405062510	400	500	6	250	10	180	24	67	
2405002512	400	500	10	250	12	180	24	69	



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Gaskets see chapter 9.1

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# 1.7 Automatic Pressure Cover

up to 8/-1 bar

## Standard design

- Wetted material: 1.4571 or 1.4404  
Attachment parts: 1.4301
- With pneumatic-cylinder for movement (locking, opening/closing)
- Silicone-O-Ring-gasket
- Pneumatic-cylinder incl. REED-contacts for detection of final positions
- Neck length 200 mm, Neck thickness 6 mm
- Surface quality: unpolished, glass-bead blasted
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt

## Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Intermediate sizes
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,2\mu m$ )
- Neck length up to 2000 mm, neck thickness up to 12 mm
- Neck shaped to match tank-diameter
- Conical design of the neck (up to max. 8mm neck thickness)
- Installation of nozzles (sightglasses, TC-ferrules (DIN32676), HZ-Connect, etc.)
- With safety-grill or safety-cross
- Attachment parts in other materials



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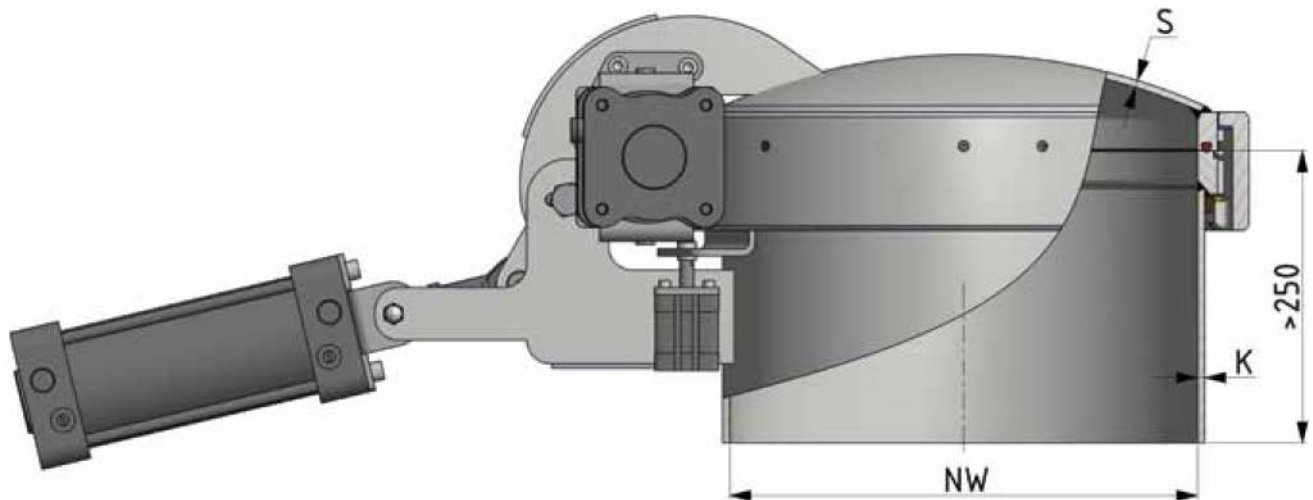


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Article No.	NW	MAWP [bar]	Total height [mm]	S for 1.4571 [mm]	Weight [kg]	Price in EUR
24042000-A	400	4/-1	200	4	85	
24062000-A	400	6/-1	200	6	87	
24082000-A	400	8/-1	200	8	89	
24102000-A	400	10/-1	200	10	92	
25042000-A	500	4/-1	200	4	112	
25062000-A	500	6/-1	200	6	116	
25082000-A	500	8/-1	200	8	119	
26042000-A	600	4/-1	200	4	132	
26062000-A	600	6/-1	200	6	137	
26082000-A	600	8/-1	200	8	142	

Gaskets see chapter 9.1



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## 2. Glass Covers





# Glass-Covers

**2.1 Glass-Cover**  
up to 12/-1 bar

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**2.2 Glass-Cover with Metaglass®**  
up to 12/1 bar

---

**2.3 Meta-Flange-Sightglass**  
up to 10/-1 bar

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**2.4 Pressureless Glass-Cover**



## 2.1 Pressure Glass Cover

up to 12/-1 bar

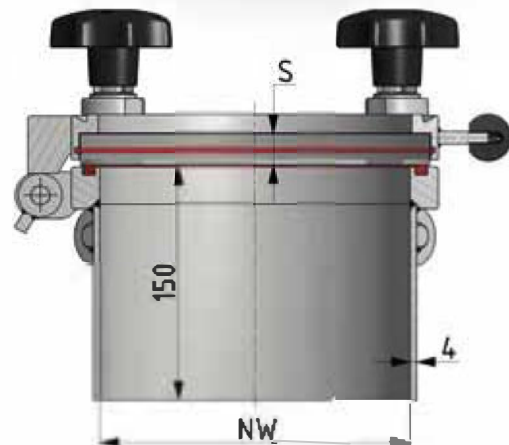
### Standard design

- Wetted material: 1.4571 or 1.4404  
attachment parts: 1.4301
- With Borosilicateglass, acc DIN 7080
- Plastic handle with stainless steel insert
- Silicone gasket
- With hinge and handle with plastic knob
- Neck length 150 mm, neck thickness 4 mm
- Surface unpolished, glass-bead blasted
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt



### Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Intermediate sizes
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to  $R_a < 0,2 \mu\text{m}$ )
- Neck length up to 2000 mm, neck thickness up to 20 mm
- Conical design of the neck (up to max. 8 mm neck thickness)
- Neck shaped to match tank-diameter
- Various handles: Stainless steel handle, toggle, nuts, etc.
- Cover side swiveling
- With wedge for side installation
- Locking pin in open position
- Spring assists (torsion-, disc-, or gaspring)
- Installation of various nozzle into the neck
- With various limit- or proximity-switches



- With safety-grill or safety-cross
- With wiper and/or light
- With customer symbol blasted into the glass
- Attachment parts in other materials
- Various Design Codes: ASME VIII-1, EN13445, ...
- Optional with ASME-Approval Sec. VIII-1, latest Edition (additional surcharge, design-changes possible)

Article No.	NW	MAWP [bar]	zul. Betr. Temperatur [°C]	number of screws M16	size of glass pane (S) [mm]	Weight [kg]	Price in EUR
221 012	100	12	280	4	ø 125 x 20	14	
221 500	150	4	280	4	ø 175 x 20	15	
221 510	150	10	280	4	ø 175 x 25	17	
222 000	200	4	280	4	ø 225 x 20	18	
222 010	200	8	280	4	ø 225 x 25	19	
222 500	250	4	280	4	ø 275 x 25	25	
222 508	250	8	280	4	ø 275 x 30	26	
223 000	300	4	280	4	ø 325 x 25	29	
223 006	300	6	280	6	ø 325 x 30	30	
223 500	350	4	280	4	ø 375 x 30	34	
224 000	400	3	280	4	ø 425 x 30	39	
224 500	450	2,5	280	6	ø 475 x 30	43	
225 000	500	2	280	6	ø 525 x 30	48	
226 000	600	1	280	6	ø 625 x 30	61	

Gaskets see chapter 9.1 and 9.3 | glass-panes see chapter 8.7



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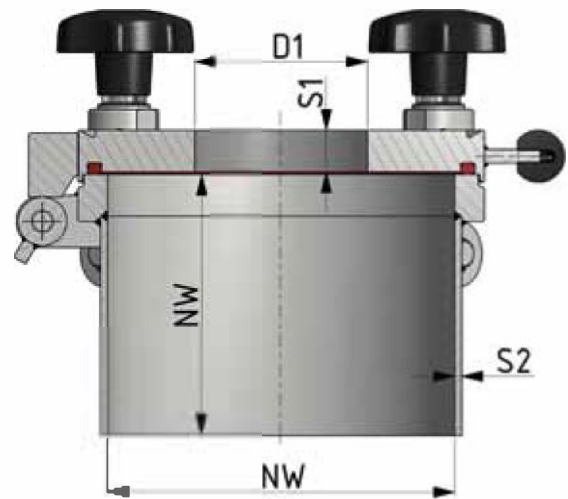


### Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Metaglass® from 2.4602 / Quarz- or Saphirglass
- Intermediate sizes
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to Ra < 0,2 µm)
- Neck length up to 2000 mm, neck thickness up to 20 mm
- Conical design of the neck (up to max. 8 mm neck thickness)
- Various handles: Stainless steel handle, toggle, nuts, etc.
- Cover side swiveling
- With wedge for side installation
- Locking pin in open position
- Spring assists (torsion-, disc-, or gasspring)
- Installation of various nozzle into the neck
- With various limit- or proximity-switches
- With safety-grill or safety-cross

### Standard design

- Wetted material: 1.4571 or 1.4404, Metaglass® from 1.4462 / Borosilicateglass DIN7080, attachment parts from 1.4301
- Plastic handle with stainless steel insert
- Silicone gasket
- With hinge and handle with plastic knob
- Neck length 150 mm, neck thickness 4 mm
- Surface unpolished, glass-bead blasted
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt



- Attachment parts in other materials
- Neck shaped to match tank-diameter
- With wiper and/or light
- Various Design Codes: ASME VIII-1, EN13445, ...
- Optional with ASME-Approval Sec. VIII-1, latest Edition (additional surcharge, design-changes possible)

Article No.	NW	MAWP [bar]	Working temperature [°C]	Number of screws M16	Thickness of glass S1 [mm]	Neck thickness [mm]	Viewing D1 [mm]	Weight [kg]	Price in EUR
221 000 META	100	4 bar	280 °C	4	24	4	ø 60	14	
221 012 META	100	12 bar	280 °C	4	24	6	ø 60	15	
221 500 META	150	4 bar	280 °C	4	24	4	ø 75	15	
221 504 META	150	10 bar	280 °C	4	24	6	ø 75	16	
222 000 META	200	4 bar	280 °C	4	24	4	ø 100	19	
222 010 META	200	10 bar	280 °C	4	24	6	ø 100	21	
222 500 META	250	4 bar	280 °C	4	24	4	ø 125	26	
222 508 META	250	8 bar	280 °C	4	24	6	ø 125	28	
223 000 META	300	4 bar	280 °C	4	24	4	ø 150	30	
223 006 META	300	6 bar	280 °C	6	24	6	ø 150	32	

Gaskets see chapter 9.1



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## 2.3 Meta-Flange-Sightglass

up to 10/-1 bar

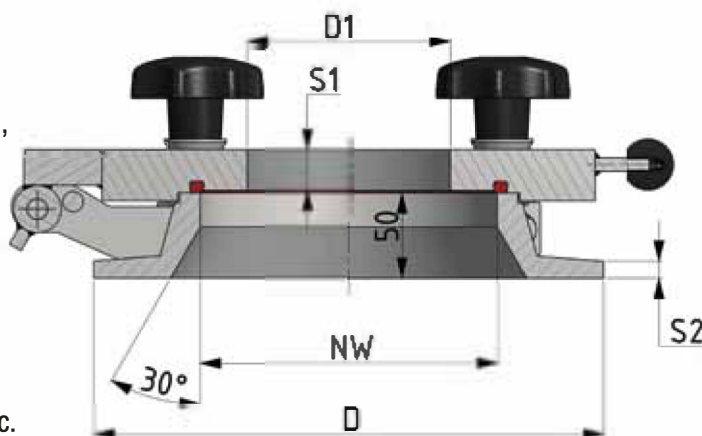
### Standard design

- Wetted material: 1.4571 or 1.4404; Metaglass® from 1.4462 / Borosilicateglass DIN7080; attachment parts from 1.4301
- Plastic handles with stainless steel insert and brass washer
- Silicone gasket
- With hinge and handle with plastic knob
- Flange thickness: 50 mm
- Surface unpolished, glass-bead blasted
- With approval (Modul G) acc. PED 97/23/Ec
- Design Code: AD-2000-Merkblatt



### Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Metaglass® from 2.4602 / Quarz- or Saphirglass
- Intermediate sizes
- Various gasket qualities
- Various surface qualities of the flange (glass-bead blasted, pickled or polished up to  $Ra < 0,2 \mu m$ )
- Various handles: Stainless steel handle, toggle, nuts, etc.
- Locking pin in open position
- Spring assists (torsion-, disc-, or gasspring)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- Attachment parts in other materials



- With wiper and/or light
- Various Design Codes: ASME VIII-1, EN13445, ...
- Optional with ASME-Approval Sec. VIII-1, latest Edition (additional surcharge, design-changes possible)

Article No.	NW	MAWP [bar]	Working temperature [°C]	Number of screws M16	Thickness of glass S1 [mm]	Thickness of flange S2 [mm]	Outside diameter D [mm]	Viewing D1 [mm]	Weight [kg]	Price in EUR
221 000 FLANSCH	100	10	280	4	24	10	225	ø 70	15	
221 250 FLANSCH	125	10	280	4	24	10	250	ø 90	16	
221 500 FLANSCH	150	10	280	4	24	10	275	ø 110	17	
221 750 FLANSCH	175	10	280	4	24	10	300	ø 120	19	
222 000 FLANSCH	200	10	280	6	24	10	325	ø 130	21	
222 250 FLANSCH	225	10	280	8	24	10	350	ø 140	24	

Gaskets see chapter 9.1

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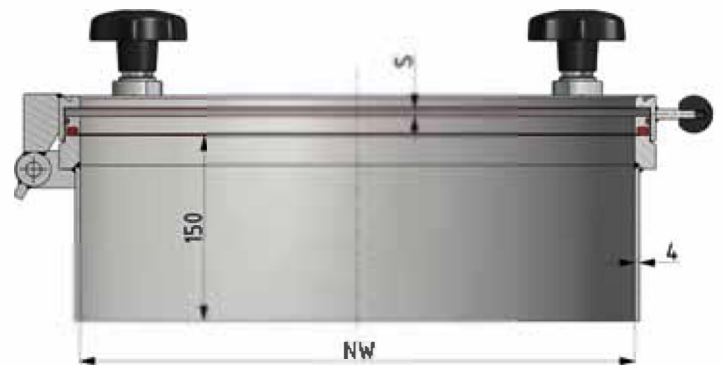


### Standard design

- Wetted materials: 1.4571 or 1.4404 attachment parts from 1.4301
- With soda-lime glass, acc. DIN8902
- Plastic handles with stainless steel handles
- Silicone gasket
- With hinge and plastic knob
- Neck length 150 mm, neck thickness 4 mm
- Surface: unpolished, glass-bead blasted

### Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- With Borosilicate glass DIN7080
- Intermediate sizes
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,2 \mu m$ )
- Neck length up to 2000 mm, neck thickness up to 20 mm
- Conical design of the neck (up to max. 8 mm neck thickness)
- Neck shaped to match tank-diameter
- Various handles: Stainless steel handle, toggle, nuts, etc.
- Cover side swiveling
- With wedge for side installation
- Locking pin in open position



- Spring assists (torsion-, disc-, or gasspring)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- With wiper and/or light
- With customer symbol blasted into the glass
- Attachment parts in other materials

Article No.	NW	Number of screws M16	Thickness of glass pane (S) [mm]	Weight [kg]	Price in EUR
332 004	200	4	6	13	
332 504	250	4	6	15	
333 004	300	4	6	17	
333 504	350	4	6	19	
334 004	400	4	6	21	
334 504	450	4	6	23	
335 004	500	4	6	27	
336 004	600	4	6	31	

Gaskets see Chapter 9.1 and 9.3

Glass panes see chapter 8.7



### **3. Oval Covers** (opens to the inside)

# Oval Covers

(opens to the inside)

**3.1 Manhole-Cover,**  
oval 340 x 440

---

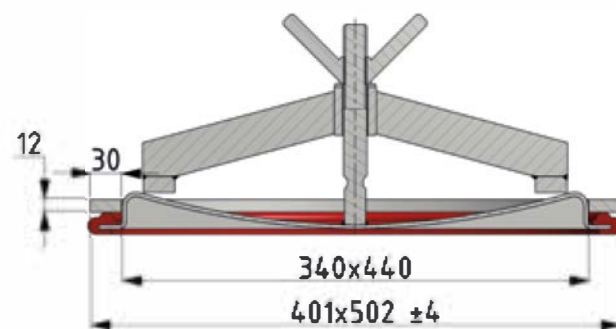
**3.2 Manhole-Cover,**  
oval 510 x 410

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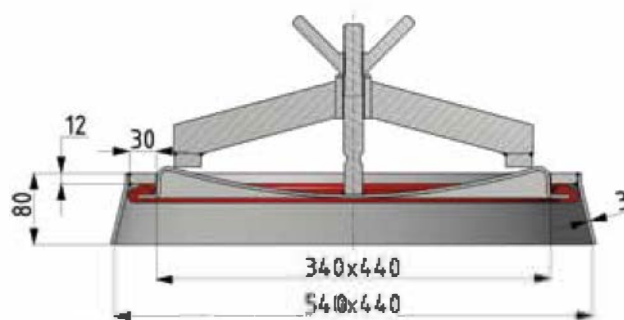
**3.3 Manhole-Cover,**  
oval 190 x 240



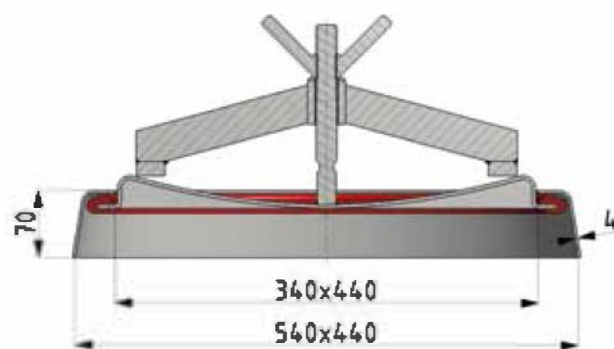
## 3.1 Manhole cover 340x440



picture 1



picture 2



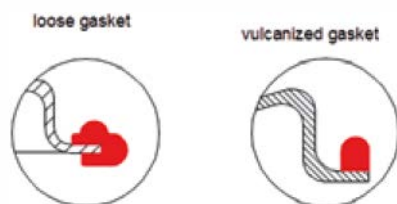
picture 3

### Standard design

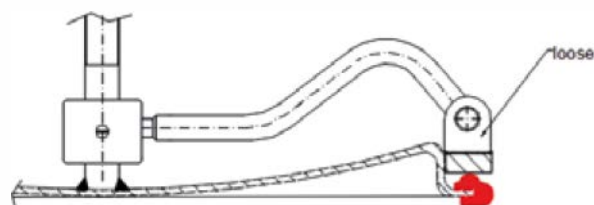
- Wetted material: 1.4571 or 1.4404  
Attachment parts from 1.4301
- Stainless steel toggle with brass insert
- Natural rubber gasket (dark red)
- Surface: unpolished, pickled

### Options

- Wetted materials: 1.4435, 1.4539, 1.4462
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,4 \mu m$ )
- Neck length up to 120 mm, neck thickness up to 6 mm
- With swivel-feature
- With various limit- or proximity-switches
- Neck shaped to match tank-diameter



swivel-feature



picture 4

### Gaskets

Article No.	Type of gasket	Temperature [°C]	Price in EUR loose	Price in EUR vulcanized
102 000	Natural rubber gasket, food quality (dark red) with FDA	70°C/-50°C		
102 0si	Silicone gasket, food quality (light red) with FDA	210°C/-60°C		
102 0ep	EPDM-gasket, food quality (purple) with FDA	125°C/-50°C		
102 0pe	Perbunan-(NBR)-gasket, food quality (red) with FDA	100°C/-30°C		
102 0vi	Viton gasket, food quality (brown) with FDA	240°C/-17°C		

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### with EC-type-examination acc to PED

(4 bar/250° C; 5 bar/150° C; 6 bar/50° C, 8 bar/50° C)

Article No.	Description	Weight [kg]	Price in EUR
101 406	Manhole-Cover (4 mm thick), with welding ring, (30x12 mm) without swivel feature (picture 1) (for 6 bar / 50° C)	12,1	
101 606	Manhole-Cover (6 mm thick), with welding ring, (30x12 mm) without swivel feature (picture 1) (for 8 bar / 50° C)	15,4	
101 409K	Manhole-Cover (4 mm thick), with neck (3x80mm) (3x80 mm) with swivel feature (picture 2+4) (for 6 bar / 50° C)	13,4	
101 609K	Manhole-Cover (6 mm thick), with neck (5x80mm) with swivel feature (picture 2+4) (for 8 bar / 50° C)	16,6	
101 409	Manhole-Cover (4 mm thick), with welding ring (30x12 mm) with swivel feature (picture 1+4) (for 6 bar / 50° C)	14,9	
101 609	Manhole-Cover (4 mm stark), with welding ring (30x12 mm) with swivel feature (picture 1+4) (for 8 bar / 50° C)	19,5	
101 406K	Manhole-Cover (4 mm thick), with neck (3x80mm) with swivel feature (picture 1+4) (for 6 bar / 50° C)	15,6	
101 606K	Manhole-Cover (4 mm thick), with neck (5x80mm) without swivel feature (picture 2+4) (for 8 bar / 50° C)	20,2	

### without EC-type-examination acc to PED 97/23/EC

Article No.	Description	Weight [kg]	Price in EUR
100 306	Manhole-Cover (3 mm thick), with welding ring (30x12 mm) without swivel feature (picture 1)	11,0	
100 306K	Manhole-Cover (3 mm thick), with neck (3x80 mm) without swivel feature (picture 2)	14,2	
100 306P	Manhole-Cover (3 mm thick), with neck (4x70 mm) without swivel feature (picture 3)	12,0	
100 309	Manhole Cover (3 mm thick), with welding ring (30x12 mm) with swivel feature (picture 1+4)	12,3	
100 309K	Manhole-Cover (3 mm thick), with neck (3x80 mm) with swivel feature (picture 2+4)	15,4	
100 309P	Manhole-Cover(3 mm thick), with neck (4x70 mm) with swivel feature (picture 3+4)	12,7	

### Components

Article No.	Description	Weight [kg]	Price in EUR
101 300	Manhole Cover 340x440 mm with bolt	3 mm thick	4,5
101 400	Manhole Cover 340x440 mm with bolt	4 mm thick	5,5
101 600	Manhole Cover 340x440 mm with bolt	6 mm thick	7,5
103 022	Stainless steel toggle M22 with brass insert		0,7
104 340	Stainless steel shackle (340 x 440mm)		1,5
106 012	Stainless steel welding ring (30 x 12mm)		3,6
112 312	Stainless steel welding neck (ring 30x12mm, 80mm long)	3 mm thick	3,8
112 412	Stainless steel welding neck (ring 30x12mm, 80mm long)	4 mm thick	4,7
112 512	Stainless steel welding neck (ring 30x12mm, 80mm long)	5 mm thick	5,7
113 470	Stainless steel pressed neck (70mm long)	4 mm thick	3,2
107	Stainless steel swivel feature		1,2
101 722	tread bolt M22 x 170 mm with groove		0,5



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## 3.2 Manhole Cover 510x410

with / without Type-Examination acc. PED97/23/EC

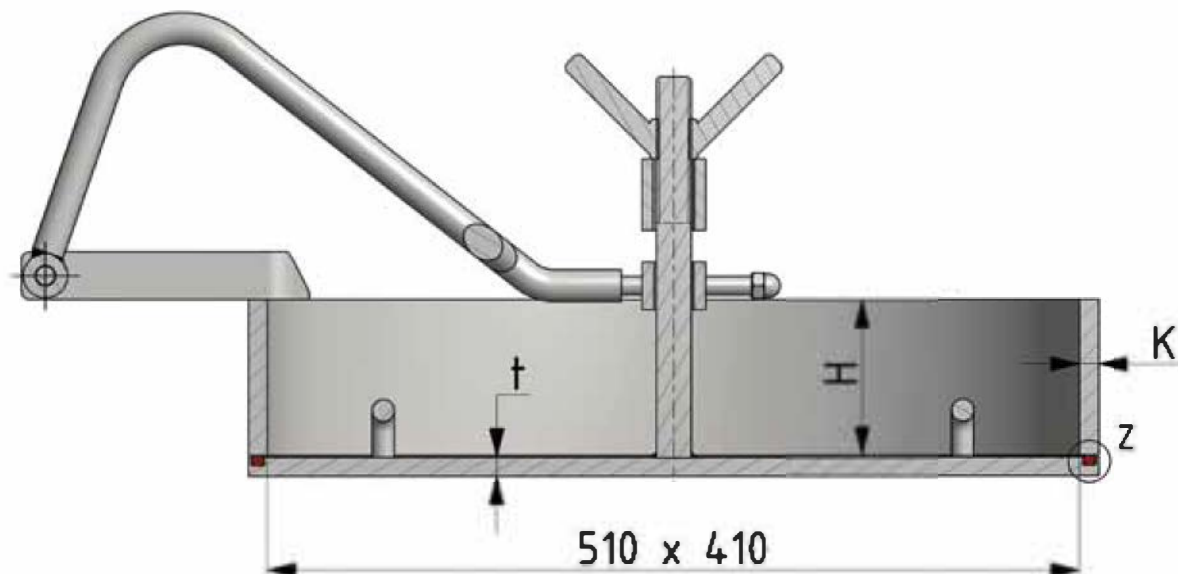
### Standard design

- Wetted Material: 1.4571 or 1.4404  
attachment parts 1.4301
- Stainless steel toggle with brass insert
- Silicone-O-Ring gasket
- Without swivel feature, with two handles
- Neck length 100 mm or 60 mm, neck thickness 12 mm
- Surface unpolished, glass-bead blasted
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt



### Options

- Wetted Materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,4 \mu m$ )
- Neck length up to 250 mm, neck thickness up to 20 mm
- With various limit- or proximity-switches
- Attachment parts in other materials



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### with EC-type-examination acc to PED 97/23/EC

Article No.	MAWP [bar] to 150°C	Neck length [mm] H	Description	Weight [kg]	Price in EUR
1022069	2	60	Manhole-Cover (t = 12 mm thick), with welding neck without swivel feature	27,5	
1022109	2	100	Manhole-Cover (t = 12 mm thick), with welding neck without swivel feature	33,3	
1024069	4	60	Manhole-Cover (t = 15 mm thick), with welding neck without swivel feature	30,9	
1024109	4	100	Manhole-Cover (t = 15 mm thick), with welding neck without swivel feature	36,7	
1026069	6	60	Manhole-Cover (t = 20 mm thick), with welding neck without swivel feature	36,6	
1026109	6	100	Manhole-Cover (t = 20 mm thick), with welding neck without swivel feature	42,4	

### without EC-type-examination acc to PED 97/23/EC

Article No.	Neck length [mm] H	Description	Weight [kg]	Price in EUR
1020069	60	Manhole-Cover (t = 10 mm thick), with welding neck without swivel feature	25,1	
1020109	100	Manhole-Cover (t = 10 mm thick), with welding neck without swivel feature	31,0	

### Swivel feature

Article No.	Description	Weight [kg]	Price in EUR
108	Swivel feature for Manhole-Cover 510x410	1,8	

Gasket see chapter 9.1



## 3.3 Handhole-Cover 190x240

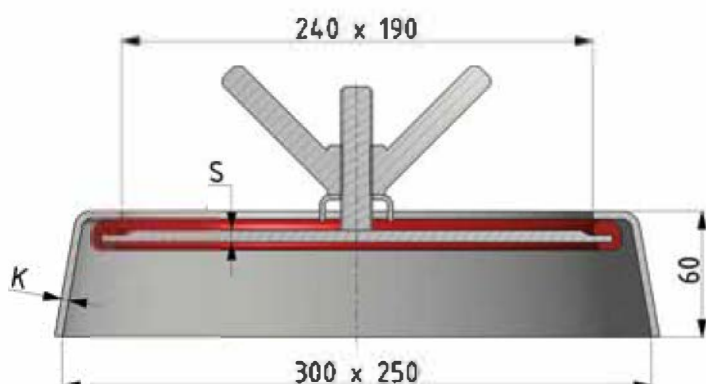
up to 3 bar/100 °C

### Standard design

- Wetted material: 1.4571 or 1.4404  
attachments parts 1.4301
- With stainless steel handle
- Silicone gasket
- Neck length 60 mm
- Surface: ungrinded, electropolished
- With/without approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt (with PED)

### Options

- Wetted material: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Various gasket quality
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,4 \mu m$ )



### without EC-type-examination acc. to PED 97/23/EC

Article No.	Description	k [mm]	s [mm]	Weight [kg]	Price in EUR
110 306	Stainless steel Handhole- Cover	3	3	4	

### with EC-type-examination acc. to PED 97/23/EC 3 bar/100°C

Article No.	Description	k [mm]	s [mm]	Weight [kg]	Price in EUR
110 306T	Stainless steel Handhole- Cover	4	6	5	

### Spare parts

Article No.	Description	Weight [kg]	Price in EUR
110 306B	Handhole shackle	0,4	
110 306D	Cover for Handhole-Cover 3 mm with welded thread bold	1,0	
110 306TD	Cover for Handhole-Cover 6 mm with welded thread bold	2,0	
110 306K	Handhole neck 3x60 mm	1,5	
110 306TK	Handhole neck 4x60 mm	2,0	

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Stand: Juni 2015



# 4. Pressureless Covers



# Pressureless Dome-Covers

**4.1 Pressureless Dome-Cover**  
with crossarm and profile-gasket

**4.2 Pressureless Dome-Cover**  
with crossarm and O-ring gasket





## 4.1 Pressureless Dome-Cover with crossarm profile-gasket



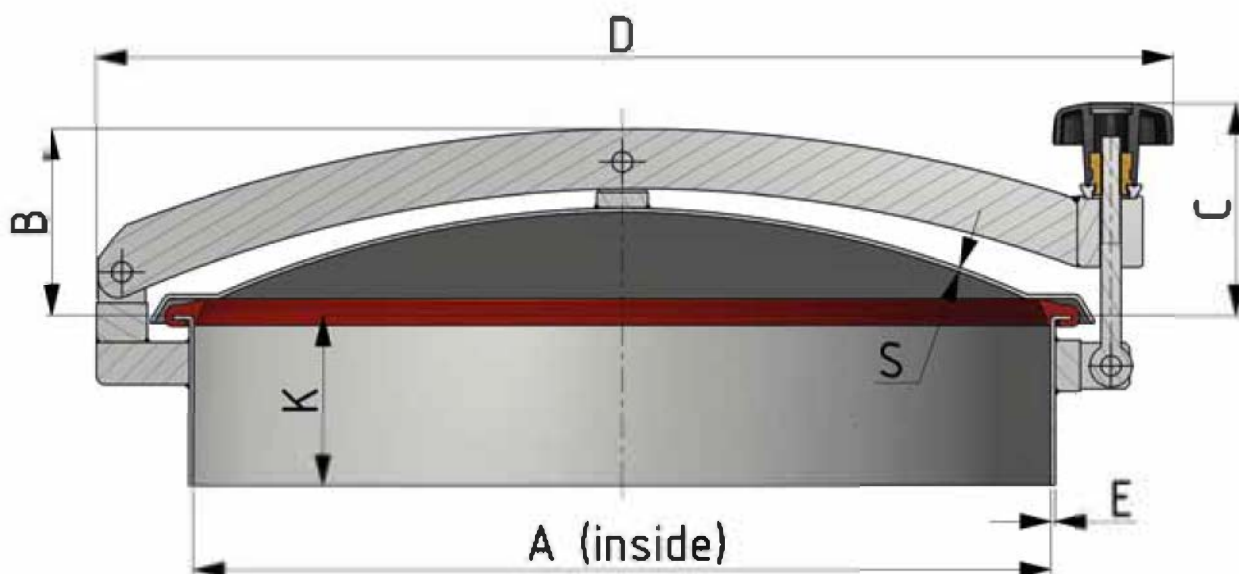
### Standard design

- Wetted material: 1.4571 or 1.4404  
Attachment parts: 1.4301
- Plastic-handles with washer and brass insert (M12)
- Siliconegasket
- Foldable cover
- Surface: Cover: brushed sheet metal, Neck Electropolished, from NW 600  
or neck length > 200 mm neck unpolished, pickled

### Options

- Wetted materials: 1.4462, 1.4539, 1.4435, etc.
- Various gasket qualities
- Various handles (Stainless steel, toggle, nuts etc.)
- Cover swing- and foldable
- Installation of various nozzles (sightglasses, TC-ferrule, etc.)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- Various surface qualities (polished up to  $R_a < 0,2\mu\text{m}$ )
- Neck shaped to match tank-diameter
- etc.

NW	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	s [mm]
100	100	60	110	230	2	2
150	150	65	110	280	2	2
200	200	70	110	335	2	2
250	250	75	110	385	2	2
300	298	85	120	440	2,5	2
400	415	100	120	550	2,5	2
460	460	115	120	595	2,5	2
500	505	125	120	650	2,5	2
600	603	140	120	740	2,5	2
800	810	140	135	950	3	2,5



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Art Nr.	NW	Neck lengh [k]	Weight [kg]	Price in EUR
310 600	<b>100</b>	60	2,4	
311 000	<b>100</b>	100	2,6	
Neck length per started 50 mm			0,3	
315 600	<b>150</b>	60	2,6	
315 000	<b>150</b>	100	2,8	
Neck length per started 50 mm			0,4	
320 600	<b>200</b>	60	3,3	
321 000	<b>200</b>	100	3,5	
Neck length per started 50 mm			0,5	
325 600	<b>250</b>	60	4,3	
325 000	<b>250</b>	100	4,5	
Neck length per started 50 mm			0,7	
330 600	<b>300</b>	60	5,5	
331 000	<b>300</b>	100	6	
Neck length per started 50 mm			1	
341 000	<b>400</b>	100	10	
341 500	<b>400</b>	150	11	
342 000	<b>400</b>	200	12,5	
Neck length per started 50 mm			1,3	
346 000	<b>460</b>	100	11	
346 500	<b>460</b>	150	12,5	
346 200	<b>460</b>	200	14	
Neck length per started 50 mm			1,5	
351 000	<b>500</b>	100	11,7	
351 500	<b>500</b>	150	13,7	
352 000	<b>500</b>	200	15,6	
Neck length per started 50 mm			1,7	
361 000	<b>600</b>	100	16	
361 500	<b>600</b>	150	18,5	
362 000	<b>600</b>	200	21	
Neck length per started 50 mm			2	
381 000	<b>800</b>	100	31	
381 500	<b>800</b>	150	34	
382 000	<b>800</b>	200	38	
Neck length per started 50 mm			3	

Gaskets see chapter 9.4



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## 4.2 Pressureless Dome-Cover with crossarm and O-ring-gasket



### Standard design

- Wetted material 1.4571 or 1.4404  
Attachment parts: 1.4301
- Plastic-handles with washer and brass insert (M12)
- Silikon-O-ring-gasket
- Foldable cover
- Surface, unpolished, glass-bead blasted

### Options

- Wetted materials: 1.4435, 1.4539, 1.4529, 1.4462, HC-22, HC-276, usw.
- Intermediate sizes
- Conical design of the neck (up to max. 8 mm neck thickness)
- Various gasket qualities
- Various handles: Stainless steel handle, toggle, nuts, etc.
- Cover swing and foldable
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,2\mu m$ )
- Neck length up to 2000 mm, thickness up to 20mm
- Locking pin in open position
- Springassist (torsion-, disc-, oder gasspring)
- Installation of nozzles (sightglasses, TC-ferrules (DIN32676), HZ-Connect, etc.)
- With various limit- or proximity-switches
- Attachment parts in other materials
- With safety-grill or safety-cross
- Neck shaped to match tank-diameter
- etc.

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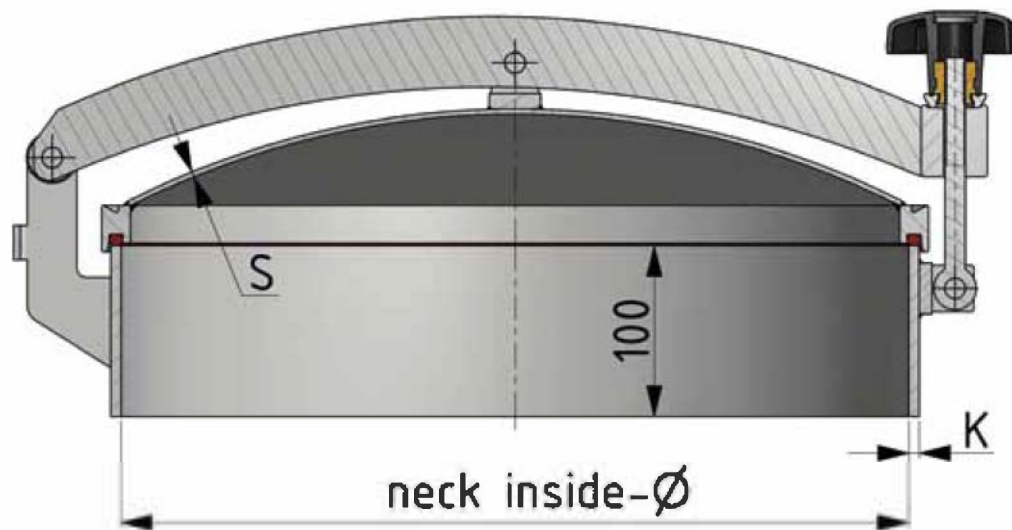
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Art Nr.	NW	Neck- Inside-Ø	Neck-thickness [k]	lid-thickness [s]	Weight [kg]	Price in EUR
311 104-ZB	<b>100</b>	111	6	3	7	
315 104-ZB	<b>150</b>	161	6	3	8,5	
321 104-ZB	<b>200</b>	211	6	3	10	
325 104-ZB	<b>250</b>	261	6	3	11	
331 104-ZB	<b>300</b>	311	6	3	13	
335 104-ZB	<b>350</b>	361	6	3	15,5	
341 104-ZB	<b>400</b>	411	6	3	18	
345 104-ZB	<b>450</b>	461	6	3	19,5	
351 104-ZB	<b>500</b>	511	6	3	21	
361 104-ZB	<b>600</b>	611	6	3	28	
371 104-ZB	<b>700</b>	707	8	3	37	
381 104-ZB	<b>800</b>	807	8	3	40	

Gaskets see chapter 9.1





## 5. Aseptic-Line Covers





# Aseptic-Line

## 5.1 Aseptic-Line-Covers

up to 0,49/-1 bar

## 5.2 Aseptic-Line-Covers

up to 2/-1 bar

up to 4/-1 bar

up to 6/-1 bar



## 5.1 Aseptic-Line-Covers

up to 0,49/-1 bar



### Standard design

- Wetted material 1.4571 or 1.4404  
Attachment parts: 1.4301
- Stainless steel toggle with washer
- With Silicone gasket (FDA und USP Cl. VI)
- With zero backlash hinge and handle
- Surface: as machined, unpolished, pickled
- Welding collar acc. customers requirements (standard h = 6 mm)
- Without PED 97/23EC approval

### Options

- Wetted materials 1.4435, 1.4539, 1.4529, 1.4462, HC-22, HC-276, etc.
- Intermediate sizes
- Various gasket qualities (on request)
- Various handles: Stainless steel handle, nuts, etc.
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,2\mu m$ )
- Locking pin in open position
- Springassist (torsion-, disc-, or gasspring)
- Installation of nozzles (sightglasses, TC-ferrules (DIN32676), HZ-Connect, etc.)
- With various limit- or proximity-switches
- Attachment parts in other materials
- Flange and Lid machined to follow the shape of the vessel-wall (on request)
- etc.

### Advantages

- Aseptic sealing
- No welding neck necessary
- EHEDG approved (if internally polished  $Ra < 0,8 \mu m$ )

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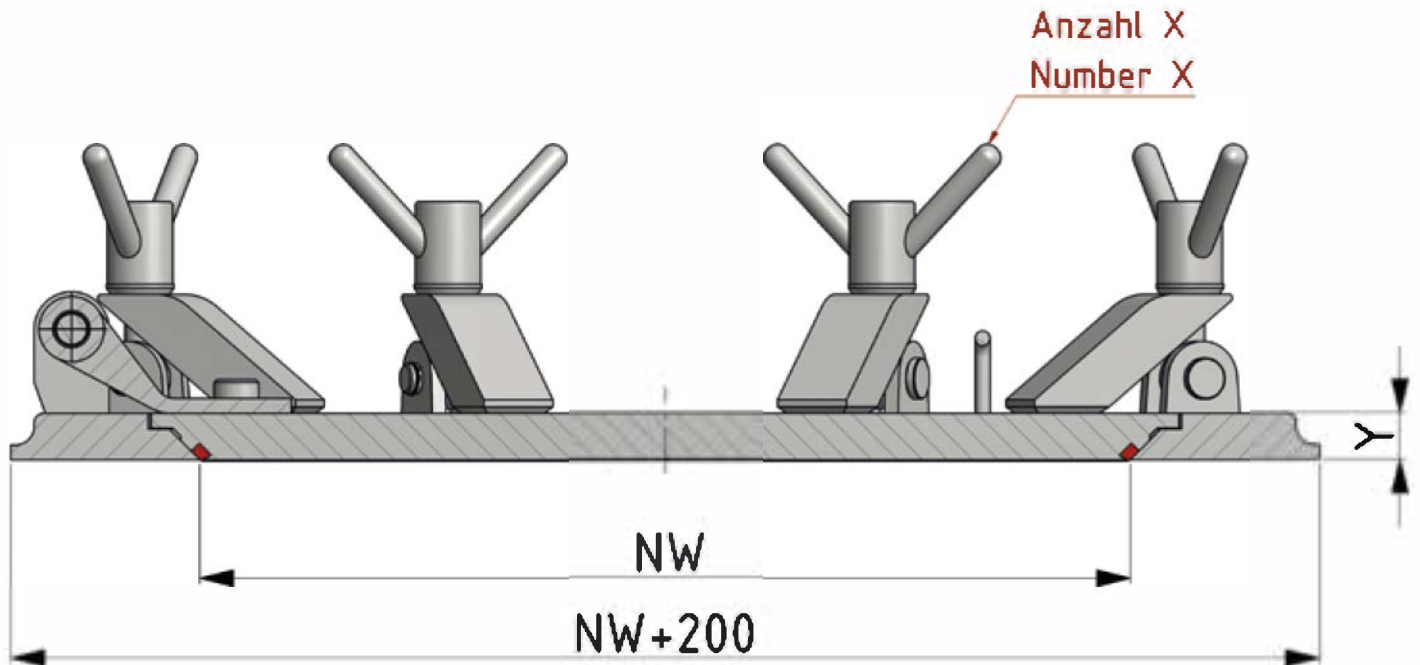


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Article No.	NW	MAWP [bar]	Max. working temperature [°C]	Number of screws M16	Material	Y	Weight [kg]	Price in EUR
22002008-ASL	200	0,49/-1	200	4	1.4404	16	24	
22502008-ASL	250	0,49/-1	200	4	1.4404	16	28	
23002008-ASL	300	0,49/-1	200	4	1.4404	16	33	
23502008-ASL	350	0,49/-1	200	4	1.4404	16	38	
24002008-ASL	400	0,49/-1	200	4	1.4404	20	53	
24502008-ASL	450	0,49/-1	200	6	1.4404	20	65	
25002008-ASL	500	0,49/-1	200	6	1.4404	20	74	
26002008-ASL	600	0,49/-1	200	6	1.4404	20	92	

Design patented acc. (Patent-Nr. EP 1 688 371 B1)



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## 5.2 Aseptic-Line-Covers

up to 6/-1 bar



### Standard design

- Wetted material 1.4571 or 1.4404 Attachment parts: 1.4301
- Stainless steel toggle with washer
- With Silicone gasket (FDA und USP Cl. VI)
- With zero backlash hinge and handle
- Surface: as machined, unpolished, pickled
- Welding collar acc. customers requirements (standard h = 6 mm)
- With PED 97/23EC approval
- Design Code: AD-2000-Merkblatt

### Options

- Wetted materials 1.4435, 1.4539, 1.4529, 1.4462, HC-22, HC-276, etc.
- Intermediate sizes
- Various gasket qualities (on request)
- Various handles: Stainless steel handle, nuts, etc.
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,2\mu m$ )
- Locking pin in open position
- Springassist (torsion-, disc-, or gasspring)
- Installation of nozzles (sightglasses, TC-ferrules (DIN32676), HZ-Connect, etc.)
- With various limit- or proximity-switches
- Attachment parts in other materials
- Flange and Lid machined to follow the shape of the vessel-wall (on request)
- etc..

### Advantages

- Aseptic sealing
- No welding neck necessary
- EHEDG approved  
(if internally polished  $Ra < 0,8 \mu m$ )

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Article No.	NW	MAWP [bar]	Max. working temperature [°C]	Number of screws M16	Material	Y	Weight [kg]	Price in EUR
22022004-ASL	200	2/-1	200	4	1.4404	16	24	
22042004-ASL	200	4/-1	200	4	1.4404	18	26	
22062004-ASL	200	6/-1	200	4	1.4404	20	28	
22522002-ASL	250	2/-1	200	4	1.4404	16	28	
22542004-ASL	250	4/-1	200	4	1.4404	20	33	
22562006-ASL	250	6/-1	200	6	1.4404	20	37	
23022004-ASL	300	2/-1	200	4	1.4404	16	33	
23042004-ASL	300	4/-1	200	4	1.4404	20	39	
23062006-ASL	300	6/-1	200	6	1.4404	22	46	
23502004-ASL	350	2/-1	200	4	1.4404	16	38	
23542004-ASL	350	4/-1	200	4	1.4404	20	46	
23562006-ASL	350	6/-1	200	6	1.4404	20	50	
24022004-ASL	400	2/-1	200	4	1.4404	20	53	
24042004-ASL	400	4/-1	200	4	1.4404	25	64	
24062006-ASL	400	6/-1	200	6	1.4404	25	68	
24522006-ASL	450	2/-1	200	6	1.4404	20	65	
24542006-ASL	450	4/-1	200	6	1.4404	25	78	
24562008-ASL	450	6/-1	200	8	1.4404	25	82	
25022006-ASL	500	2/-1	200	6	1.4404	20	73	
25042008-ASL	500	4/-1	200	8	1.4404	25	92	
25062010-ASL	500	6/-1	200	10	1.4404	28	96	
26022008-ASL	600	2/-1	200	8	1.4404	20	96	
26042010-ASL	600	4/-1	200	10	1.4404	25	120	
26062012-ASL	600	6/-1	200	12	1.4404	30	144	

Design patented acc. (Patent-Nr. EP 1 688 371 B1)



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## 6. DIN-Covers



# DIN-Covers

## 6.1 DIN-Covers

acc. DIN 28124 part 3

## 6.2 DIN-Covers

acc. DIN 28125 part 1



## 6.1 DIN-Covers

acc. DIN 28124 part 3

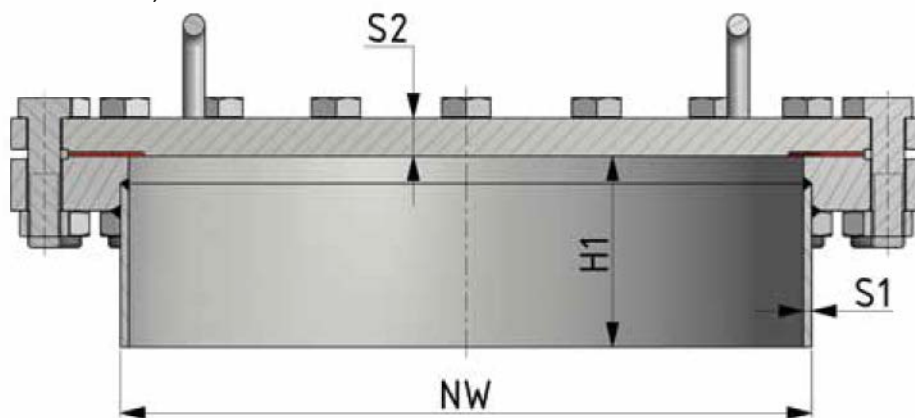
### Standard design

- Wetted material: 1.4571 or 1.4404  
Attachment part: 1.4301
- Gasket: Klingersil C-4400
- With flat gasket surface (shape MH)
- Without hinge, with two handles on the lid
- Neck length 200 mm
- Surface quality: unpolished, glass-bead blasted, from NW600  
unpolished, pickled
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt



### Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Various shapes of gasket surfaces
- Intermediate sizes
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to  $Ra < 0,2\mu m$ )
- Neck length up to 2000 mm, thickness up to 20mm
- Conical design of the neck (up to max. 8 mm neck thickness)
- Installation of nozzles (sightglasses, TC-ferrules (DIN32676), HZ-Connect, etc.)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- Attachment parts in other materials
- Swivel-feature acc. DIN 28124-4 (horizontal or vertical)
- etc.



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Article No.	NW	MAWP [bar] at 50/-10°C	MAWP [bar] at 120/-10°C	MAWP [bar] at 200/-10°C	MAWP [bar] at 250/-10°C	MAWP [bar] at 300/-10°C	Neck thickness S1 [mm]	Number of screws	Lid thickness S2 [mm] (1.4571)	Weight [kg]	Price in EUR
221012412	200	10	9	8	7	6	6	12x M16	15	27	
221612412	200	16	14	13	11	10	8	12x M16	20	33	
222512412	200	25	22	20	17	15	8	12x M16	25	35	
231012416	300	10	9	8	7	6	6	16x M20	15	47	
231612416	300	16	14	13	11	10	8	16x M20	20	56	
232512416	300	25	22	20	17	15	8	16x M20	25	61	
241012420	400	10	9	8	7	6	6	20x M20	25	87	
241612420	400	16	14	13	11	10	8	20x M24	30	104	
242512420	400	25	22	20	17	15	10	20x M30	35	154	
251012420	500	10	9	8	7	6	6	20x M24	25	149	
251612420	500	16	14	13	11	10	8	20x M24	30	146	
252512420	500	25	22	20	17	15	10	20x M27	35	187	
261012424	600	10	9	8	7	6	6	24x M20	30	158	
261612424	600	16	14	13	11	10	8	24x M24	35	209	
262512424	600	25	22	20	17	15	10	24x M30	40	293	
281012432	800	10	9	8	7	6	8	36x M24	40	356	
281612436	800	16	14	13	11	10	8	36x M30	50	459	
282512436	800	25	22	20	17	15	10	36x M36	60	564	

### Davit Arms

Article No.	Description	Price in EUR
100 28124-4H	Davit Arm acc. DIN 28124-4 horizontal (up to NW600)	
100 28124-4V	Davit Arm acc. DIN 28124-4 vertical (up to NW600)	
200 28124-4H	Davit Arm acc. DIN 28124-4 horizontal (from NW600)	
200 28124-4V	Davit Arm acc. DIN 28124-4 vertical (from NW600)	





## 6.2 DIN-Covers

acc. DIN 28125 part 1

### Standard design

- Wetted material: 1.4571 or 1.4404  
Attachment parts: 1.4301
- Gasket: Klingersil C-4400
- With flat gasket surface (shape VEC)
- with hinge and handle
- Neck length H1 = 200 mm
- Surface quality: unpolished, glass-bead blasted, from NW600  
unpolished, pickled
- With approval (Modul G) acc. PED 97/23/EC
- Design Code: AD-2000-Merkblatt



### Options

- Wetted materials: 1.4435 BN2, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- With dished Cover (shape VGC or VGN) instead of flat lid
- Various gasket surfaces (Form VEC, VEN, VGC, VGN)
- Various gasket qualities
- Various surface qualities (glass-bead blasted, pickled or polished up to Ra < 0,2µm)
- Neck length up to 2000 mm, thickness up to 20mm
- Conical design of the neck (up to max. 8 mm neck thickness)
- With Spring assist related to 28125
- Installation of nozzles (sightglasses, TC-ferrules (DIN32676), HZ-Connect, etc.)
- With various limit- or proximity-switches
- With safety-grill or safety-cross
- Attachment parts in other materials
- etc.

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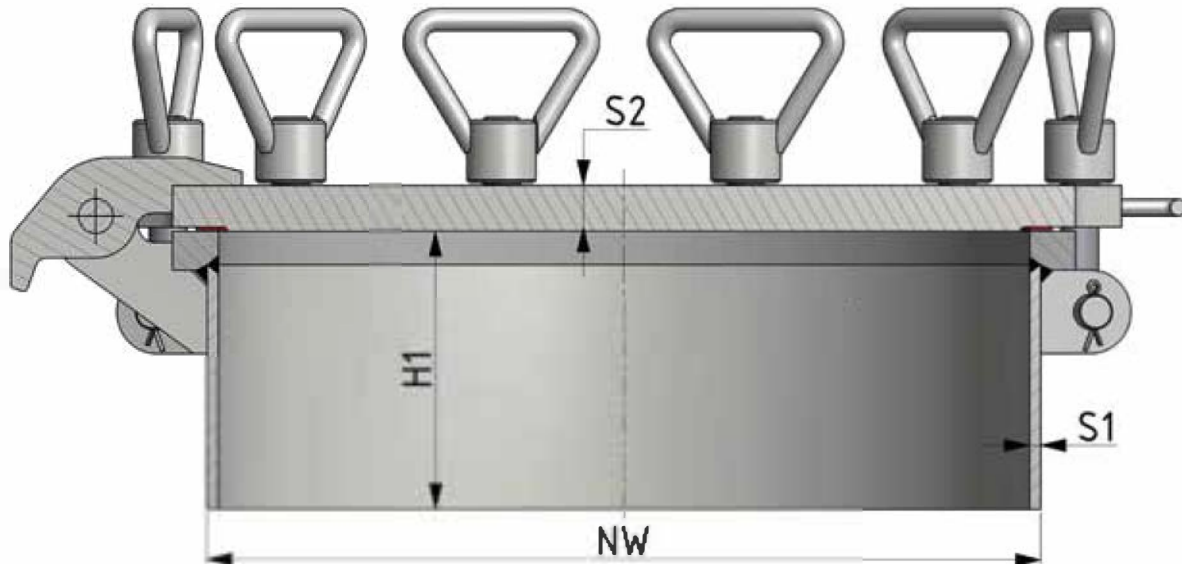
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Article No.	NW	MAWP [bar] at 50/-10°C	MAWP [bar] at 120/-10°C	MAWP [bar] at 200/-10°C	MAWP [bar] at 250/-10°C	MAWP [bar] at 300/-10°C	Number of screws	Neck thickness S1 [mm]	Lid thickness S2 [mm] (1.4571)	Weight [kg]	Price in EUR
2151254VEC	150	8	7	6	5	4	4x M20	5	20	26	
2151254VEN	150	10	9	8	7	6	4x M20	5	20	26	
2201254VEC	200	8	7	6	5	4	4x M24	5	20	35	
2201254VEN	200	10	9	8	7	6	4x M24	5	20	35	
2251254VEC	250	8	7	6	5	4	4x M24	6	25	48	
2251254VEN	250	10	9	8	7	6	4x M24	6	25	48	
2301256VEC	300	8	7	6	5	4	6x M24	8	25	65	
2301256VEN	300	10	9	8	7	6	6x M24	8	25	65	
2401256VEC	400	8	7	6	5	4	6x M27	8	25	100	
2401256VEN	400	10	9	8	7	6	6x M27	8	25	100	
25012510VEC	500	8	7	6	5	4	10x M27	8	30	152	
25012510VEN	500	10	9	8	7	6	10x M27	8	30	152	
26012512VEC	600	8	7	6	5	4	12x M27	8	30	178	
26012512VEN	600	10	9	8	7	6	12x M27	8	30	178	



## **7. Sightglasses, Nozzles, Flanges**

# Sightglasses, Nozzles, Flanges

## 7.1 Sightglass

acc. DIN 28120 bolted type

## 7.2 Sightglass

acc. DIN 11851 screwed type

## 7.3 HZ-Aseptic-Nozzle

acc. DIN 11864 (part 1-3)

## 7.4 TC-Nozzle

acc. DIN 32676

## 7.5 HZ Connect Nozzle

DIN

## 7.6 HZ Connect Nozzle

ASTM

## 7.7 HZ Connect Nozzle

ISO



## 7.1 Sightglass

acc. DIN 28120

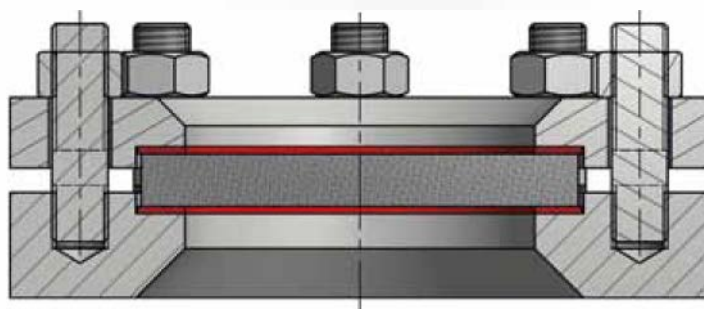
### Standard design

- Materials: 1.4571, 1.4404 (welding flange) 1.4541 (cover flange)
- With studs (A2-70) and nuts (A2)
- Gaskets: Klingersil (C-4400)
- With Borosilicatglass-pane acc. DIN 7080
- pressure rating: 10bar/16bar



### Options

- Materials: 1.4435, 1.4539, 1.4529, 1.4462, 1.4429, HC-22, HC-276, HC-2000, etc.
- Other glass materials
- Other Gasket materials



Article No.	NW	MAWP [bar]	Weight [kg]	Glass pane [mm]	Price per piece in EUR (loose)	Centrally welded Price in EUR
200 50	50	16	5,5	Ø 100 x 15		
200 80	80	10	6,0	Ø 125 x 15		
201 00	100	10	11,0	Ø 150 x 20		
201 25	125	10	14,0	Ø 175 x 20		
201 50	150	10	21,0	Ø 200 x 20		
202 00	200	6	32,0	Ø 250 x 25		
202 10	200	10	33,0	Ø 250 x 30		

### Spare parts/Components

Description	NW50 Price in EUR Article No.	NW80 Price in EUR Article No.	NW100 Price in EUR Article No.	NW125 Price in EUR Article No.	NW150 Price in EUR Article No.	NW200 Price in EUR Article No.
weldng flange (loose)	200 503	200 803	201 003	201 253	201 503	202 003
welding flange (centrally welded)	200 503	200 803	201 003	201 253	201 503	202 003
Cover flange	200 505	200 805	201 005	201 255	201 505	202 005
Borosilicatglass-pane DIN 7080	200 501	200 801	201 001	201 251	201 501	202 001 / 202 001 130
Klingersil-gasket	200 502Kli	200 802Kli	201 002Kli	201 252Kli	201 502Kli	202 002Kli
PTFE-gasket	200 502Tef	200 802Tef	201 002Tef	201 252Tef	201 502Tef	202 002Tef

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### Standard design

- Material: 1.4571/1.4404 (threaded nozzle)  
1.4301 (cap nut)
- Perbunan-/PTFE-gasket
- Heavy wall nozzle (t=5,0-6mm)
- Borosilicatglass-pane acc DIN 7080
- MAWP: 6bar



### Options

- Materials: 1.4435 , 1.4539, 1.4529, 1.4462, 1.4429, HC-22,  
HC-276, HC-2000, etc.
- Various shapes of nozzles
- Other glass materials
- Other gasket materials

Article No.	NW	Weight [kg]	Glass pane [mm]	Price per piece in EUR (loose)	Centrally welded Price in EUR
210 25	25	0,4	Ø 38 x 9		
210 40	40	0,6	Ø 50 x 10		
210 50	50	0,8	Ø 63 x 10		
210 65	65	1,3	Ø 80 x 12		
210 80	80	1,8	Ø 94 x 11		
211 00	100	2,5	Ø 113 x 15		
211 25	125	3,2	Ø 142 x 15		
211 50	150	3,8	Ø 166 x 15		

### Spare parts/Components

Description	NW25 Price in EUR Article No.	NW40 Price in EUR Article No.	NW50 Price in EUR Article No.	NW65 Price in EUR Article No.	NW80 Price in EUR Article No.	NW100 Price in EUR Article No.	NW125 Price in EUR Article No.	NW150 Price in EUR Article No.
Threated nozzle (loose)	2020	2040	2050	2065	2080	2100	2125	2150
Threated nozzle (centrally welded)	2020	2040	2050	2065	2080	2100	2125	2150
Cap nut	2020 1	2040 1	2050 1	2065 1	2080 1	2100 1	2125 1	2150 1
Borosilicatglass-pane DIN 7080	210 251	210 401	210 501	210 651	210 801	211 001	211 251	211 501
PTFE-gasket (atmospheric)	210 252Te	210 402Te	210 502Te	210 652Te	210 802Te	211 002Te	211 252Te	211 502Te
Perbunan-gasket (wetted)	210 253Pe	210 403Pe	210 503Pe	210 653Pe	210 803Pe	211 003Pe	211 253Pe	211 503Pe
PTFE-gasket (wetted)	210 253Te	210 403Te	210 503Te	210 653Te	210 803Te	211 003Te	211 253Te	211 503Te





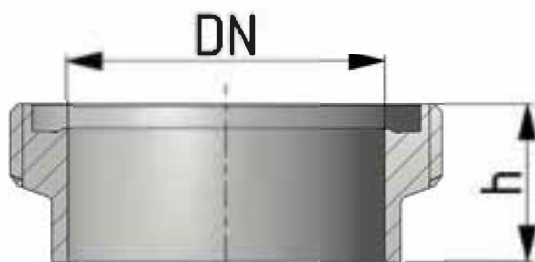
## 7.3 HZ Aseptic Nozzle

acc. DIN 11864 - 1

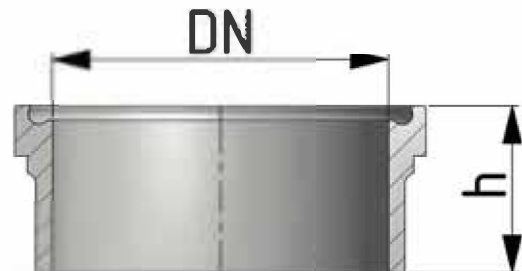
### Design

- Material: 1.4404 or 1.4435, (1.4462, 2.4602, etc. (on request))
- DN: from 10 to 100
- h: against customers requirements (standard h = 40 mm)
- conical shaped
- Heavy wall, on demand (standard t = 4 mm)
- Surface: machined Ra < 1,2 µm

#### Threated nozzle without gasket groove



#### Grooved nozzle



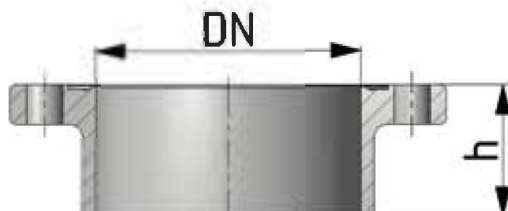
## 7.3 HZ Aseptic Nozzle

acc. DIN 11864 - 2

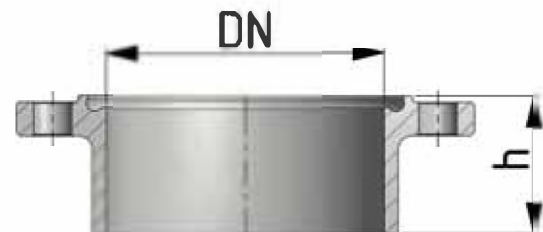
### Design

- Material: 1.4404 or 1.4435, (1.4462, 2.4602, etc. (on request))
- DN: from 10 to 100
- h: against customers requirements (standard h = 40 mm)
- conical shaped
- Heavy wall, on demand (standard t = 4 mm)
- Surface: machined Ra < 1,2 µm

#### Nozzle without gasket groove



#### Grooved nozzle



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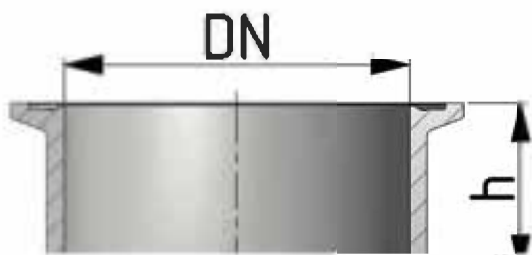


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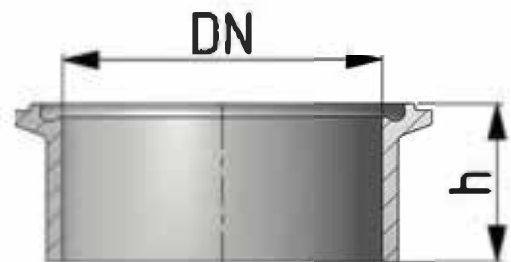
### Design

- Material: 1.4404 or 1.4435, (1.4462, 2.4602, etc. (on request))
- DN: from 10 to 100
- h: against customers requirements (standard h = 40 mm)
- conical shaped
- Heavy wall, on demand (standard t = 4 mm)
- Surface: machined Ra < 1,2 µm

### Threated nozzle without gasket groove



### Grooved nozzle



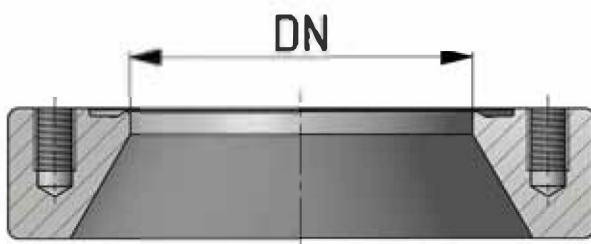
## HZ Aseptic Flange 7.3

PAD-flange

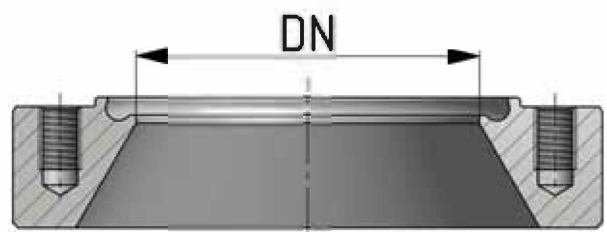
### Design

- Material: 1.4404 or 1.4435, (1.4462, 2.4602, etc. (on request))
- DN: from 50 to 200
- h: on demand (standard h=25mm)
- Surface: machined Ra < 1,2 µm

### Flange without gasket groove



### Flange with gasket groove



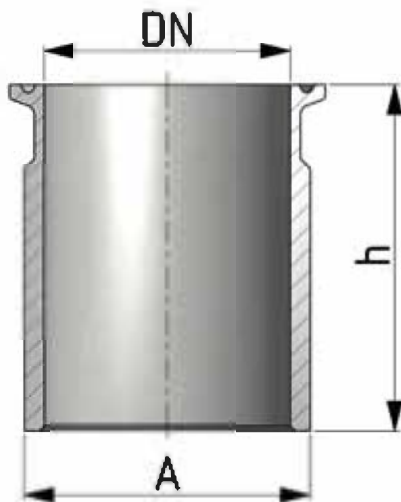
## 7.4 TC-Nozzle

acc. DIN 32676

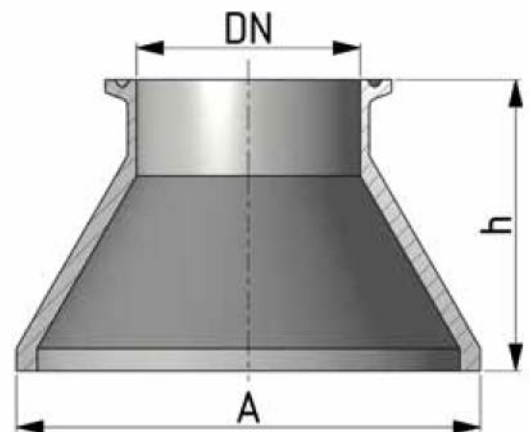
### Standard design

- Material: 1.4404 or 1.4435 (1.4462, 2.4602, etc. (on request))
- DN: from 6 to 200
- h: against customers requirements (standard h = 40 mm)
- conical shaped
- Heavy wall, on demand (standard t = 4 mm)
- Surface: machined Ra < 1,2 µm

**Cylindrical shape**



**Conical shape**



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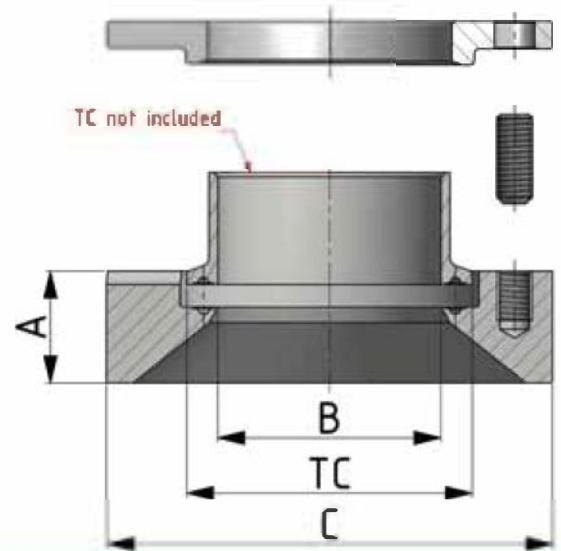


### Standard design

- Material of welding flange: 1.4404 or 1.4571
- Material of Half-moon clamps: 1.4301
- Studs A2-50, nuts A2
- Without gasket, without TC-nozzle
- machined surface, Ra < 1,2 µm

### Options

- Materials: 1.4301, 1.4435, (1.4307, 1.4539, 1.4462, C-22, C-276 etc. (on request)
- Studs A4-70, nuts A4



Article No.	NW	A flangeheight [mm]	B pipe ID [mm]	TC [mm]	C Flange OD [mm]	Studs and Nuts	weight [kg]	Price in EUR (loose)	Price in EUR (welded)
220 10-25	<b>DN 10</b>	25	ø 10	34	ø 70	4 pce. M8 x 20	0,8		
220 15-25	<b>DN 15</b>	25	ø 16	34	ø 70	4 pce. M8 x 20	0,8		
220 20-25	<b>DN 20</b>	25	ø 20	34	ø 70	4 pce. M8 x 20	0,8		
220 25-25	<b>DN 25</b>	25	ø 26	50,5	ø 85	4 pce. M8 x 20	1,1		
220 32-25	<b>DN 32</b>	25	ø 32	50,5	ø 85	4 pce. M8 x 20	1,1		
220 40-25	<b>DN 40</b>	25	ø 38	50,5	ø 85	4 pce. M8 x 20	1,1		
220 50-25	<b>DN 50</b>	25	ø 50	64	ø 100	4 pce. M8 x 20	1,5		
220 65-25	<b>DN 65</b>	25	ø 66	91	ø 131	6 pce. M8 x 25	2,7		
220 80-25	<b>DN 80</b>	25	ø 81	106	ø 146	6 pce. M8 x 25	3,3		
220 100-25	<b>DN 100</b>	25	ø 100	119	ø 170	8 pce. M8 x 30	4,5		

### Spare parts/Components

Description	DN 10 Price in EUR Article No.	DN 15 Price in EUR Article No.	DN 20 Price in EUR Article No.	DN 25 Price in EUR Article No.	DN 32 Price in EUR Article No.	DN 40 Price in EUR Article No.	DN 50 Price in EUR Article No.	DN 65 Price in EUR Article No.	DN 80 Price in EUR Article No.	DN 100 Price in EUR Article No.
with studs and nuts	222 10-25	222 15-25	222 20-25	222 25-25	222 32-25	222 40-25	222 50-25	222 65-25	222 80-25	222 100-25



## 7.6 HZ Connect Nozzle

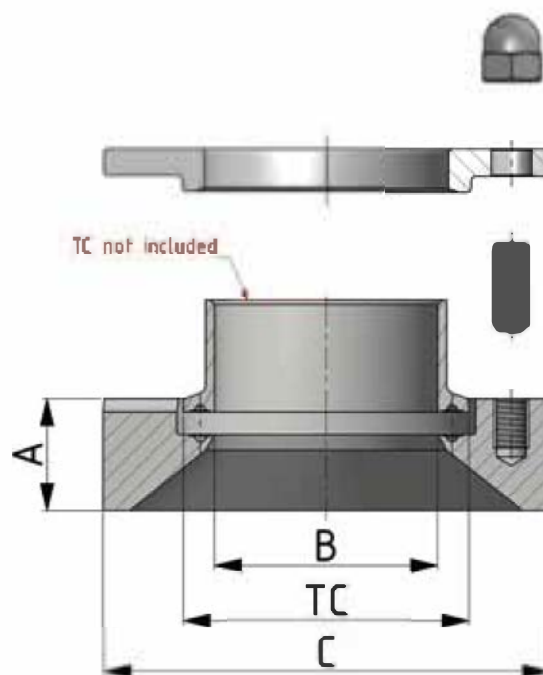
acc. ASTM A270

### Standard design

- Material of welding flange: 1.4404 or 1.4571
- Material of Half-moon clamps: 1.4301
- Studs A2-50, nuts A2
- Without gasket, without TC-nozzle
- machined surface, Ra < 1,2 µm

### Options

- Materials: 1.4301, 1.4435, (1.4307, 1.4539, 1.4462, C-22, C-276 etc. (on request)
- Studs A4-70, nuts A4



Article No.	NW	A flangeheight [mm]	B pipe ID [mm]	TC [mm]	C Flange OD [mm]	Studs and Nuts	weight [kg]	Price in EUR (loose)	Price in EUR (welded)
240 3/8-25	3/8"	25	ø 7,75	25	ø 55	4 pce. M6 x 16	0,6		
240 1/2-25	1/2"	25	ø 9,4	25	ø 55	4 pce. M6 x 16	0,6		
240 3/4-25	3/4"	25	ø 15,75	25	ø 55	4 pce. M6 x 16	0,6		
240 1-25	1"	25	ø 22,1	50,5	ø 85	4 pce. M8 x 20	1,1		
240 1 1/2-25	1 1/2"	25	ø 34,8	50,5	ø 85	4 pce. M8 x 20	1,1		
240 2-25	2"	25	ø 47,5	64	ø 100	4 pce. M8 x 20	1,5		
240 2 1/2-25	2 1/2"	25	ø 60,2	77,5	ø 112	4 pce. M8 x 25	2,0		
240 3-25	3"	25	ø 72,9	91	ø 131	6 pce. M8 x 25	2,7		
240 4-25	4"	25	ø 97,4	119	ø 170	6 pce. M8 x 30	4,5		

### Spare parts/Components

Description	DN 3/8" Price in EUR Article No.	DN 1/2" Price in EUR Article No.	DN 3/4" Price in EUR Article No.	DN 1" Price in EUR Article No.	DN 1 1/2" Price in EUR Article No.	DN 2" Price in EUR Article No.	DN 2 1/2" Price in EUR Article No.	DN 3" Price in EUR Article No.	DN 4" Price in EUR Article No.
Half-Moon Clamps with Studs and Nuts	242 3/8-25	242 1/2-25	242 3/4-25	242 1-25	242 1 1/2-25	242 2-25	242 2 1/2-25	242 3-25	242 4-25

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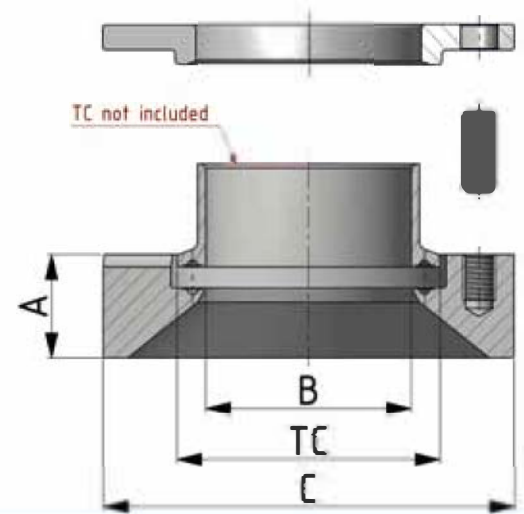
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### Standard design

- Material of welding flange: 1.4404 or 1.4571
- Material of Half-moon clamps: 1.4301
- Studs A2-50, nuts A2
- Without gasket, without TC-nozzle
- machined surface, Ra < 1,2 µm

### Options

- Materials: 1.4301, 1.4435, (1.4307, 1.4539, 1.4462, C-22, C-276 etc. (on request)
- Studs A4-70, nuts A4

Article No.	NW	A flangeheight [mm]	B pipe ID [mm]	TC [mm]	C Flange OD [mm]	Studs and Nuts	weight [kg]	Price in EUR (loose)	Price in EUR (welded)
23013,5-25	<b>DN 13,5</b>	25	ø 10,3	25	ø 55	4 pce. M6 x 16	0,6		
23017,2-25	<b>DN 17,2</b>	25	ø 14,0	25	ø 70	4 pce. M8 x 20	0,8		
23021,3-25	<b>DN 21,3</b>	25	ø 18,1	50,5	ø 70	4 pce. M8 x 20	0,8		
23026,9-25	<b>DN 26,9</b>	25	ø 23,7	50,5	ø 85	4 pce. M8 x 20	1,1		
23021,3-25	<b>DN 21,3</b>	25	ø 18,1	50,5	ø 70	4 pce. M8 x 20	0,8		
23026,9-25	<b>DN 26,9</b>	25	ø 23,7	50,5	ø 85	4 pce. M8 x 20	1,1		
23033,7-25	<b>DN 33,7</b>	25	ø 29,7	50,5	ø 85	4 pce. M8 x 20	1,1		
23042,4-25	<b>DN 42,4</b>	25	ø 38,4	64	ø 100	4 pce. M8 x 20	1,5		
23048,3-25	<b>DN 48,3</b>	25	ø 44,3	64	ø 100	4 pce. M8 x 20	1,5		
23060,3-25	<b>DN 60,3</b>	25	ø 56,3	77,5	ø 112	4 pce. M8 x 25	2,0		
23076,1-25	<b>DN 76,1</b>	25	ø 72,1	91	ø 131	6 pce. M8 x 25	2,7		
23088,9-25	<b>DN 88,9</b>	25	ø 84,3	106	ø 146	6 pce. M8 x 25	3,3		
23114,3-25	<b>DN 114,3</b>	25	ø 109,7	130	ø 170	8 pce. M8 x 25	4,5		

### Spare parts/Components

Description	DN 13,5 Price in EUR Article No.	DN 17,2 Price in EUR Article No.	DN 21,3 Price in EUR Article No.	DN 26,9 Price in EUR Article No.	DN 33,7 Price in EUR Article No.	DN 42,4 Price in EUR Article No.	DN 48,3 Price in EUR Article No.	DN 60,3 Price in EUR Article No.	DN 76,1 Price in EUR Article No.	DN 88,9 Preis in EUR Artikel Nr.	DN 114,3 Price in EUR Article No.
Half-Moon Clamps with Studs and Nuts	232 13,5-25	232 17,2-25	232 21,3-25	232 26,9-25	232 33,7-25	232 42,4-25	232 48,3-25	232 60,3-25	232 76,1-25	232 88,9-25	232 114,3-25



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## 8. Accessories



# Equipment

## 8.1 Adjustable tank-feet

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## 8.2 Safety-grill

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## 8.3 Safety-cross

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## 8.4 Nuts, bolts, handles, hinges

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## 8.5 Spring-assists, Locking pin

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## 8.6 Special equipment

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## 8.7 Glass panes

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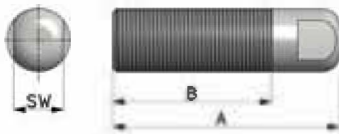
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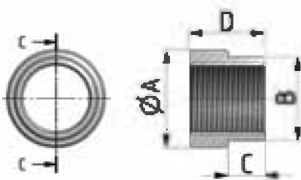
- Material 1.4301
- Rolled thread

### Threaded spindle



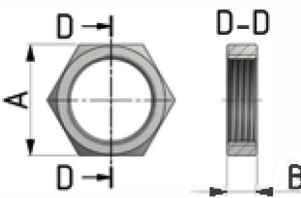
Article No.	Size	A [mm]	B [mm]	Width across flats [sw]	Loading capacity [t]	Weight [kg]	Price in EUR	Extra charges per 50 mm extension (net)
406 00 12	1/2"	100	70	19	4	0,2		
406 00 34	3/4"	100	70	22	6	0,4		
406 01 00	1"	120	84	26	8	0,7		
406 01 14	1/4"	150	112	36	15	1,5		
406 01 12	1/2"	150	112	40	19	1,9		

### Collar socket



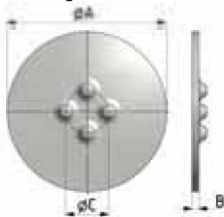
Article No.	Size	A [mm]	B [mm]	C [mm]	D [mm]	Weight [kg]	Price in EUR
416a 012	1/2"	35	29	13	27	0,1	
416a 034	3/4"	40	32	14	30	0,2	
406a 100	1"	45	38,5	17	35	0,2	
406a 114	1/4"	56	48,5	19	40	0,3	
406a 112	1/2"	63	53,5	24	50	0,4	

### Lock nut



Article No.	Size	A [mm]	B [mm]	Weight [kg]	Price in EUR
406b 012	1/2"	32	8	0,1	
406b 034	3/4"	36	9	0,1	
406b 100	1"	41	11	0,2	
406b 114	1/4"	50	12	0,2	
406b 112	1/2"	60	15	0,2	

### Base plate with dimples



Article No.	Size	A [mm]	B [mm]	C [mm]	Weight [kg]	Price in EUR
407 123	1"	120	3	32	0,3	
407 120	1"	120	5	32	0,4	
407 160	1/2"	160	8	50	1,2	

### Complete assembly



Article No.	Size	dimension of plate [mm]	Weight [kg]	Price in EUR
416 012	1/2"	120 x 3	0,7	
416 034	3/4"	120 x 3	1,1	
406 100	1"	120 x 5	1,5	
406 101	1"	160 x 8	2,3	
406 114	1/4"	160 x 8	3,2	
406 112	1/2"	160 x 8	3,7	





## 8.2 Safety-grill

### Standard design

- Material: 1.4571
- With four supports (30 x 12 mm)
- Surface: unpolished, pickled

### Options

- Material: 1.4435, 1.4539, 1.4529, 1.4462, HC-22, HC-276, etc. (laser-cut from plate)
- Various mesh sizes (laser-cut from plate)
- Bolted version
- Grill secured with chain
- Grill partially foldable
- With various limit- or proximity-switches



Article No.	Description	Material	NW	Mesh size [mm]	Weight [kg]	Price in EUR
30110-A4	Stainless steel – safety grill	1.4571	<b>100</b>	20x20	1,0	
31510-A4	Stainless steel – safety grill	1.4571	<b>150</b>	20x20	1,5	
32010-A4	Stainless steel – safety grill	1.4571	<b>200</b>	20x20	2,0	
32510-A4	Stainless steel – safety grill	1.4571	<b>250</b>	20x20	2,5	
33010-A4	Stainless steel – safety grill	1.4571	<b>300</b>	20x20	2,8	
33510-A4	Stainless steel – safety grill	1.4571	<b>350</b>	20x20	3,0	
34010-A4	Stainless steel – safety grill	1.4571	<b>400</b>	20x20	3,5	
34510-A4	Stainless steel – safety grill	1.4571	<b>450</b>	20x20	4,5	
35010-A4	Stainless steel – safety grill	1.4571	<b>500</b>	20x20	5,0	
36010-A4	Stainless steel – safety grill	1.4571	<b>600</b>	20x20	6,0	
37010-A4	Stainless steel – safety grill	1.4571	<b>700</b>	20x20	8,0	
38010-A4	Stainless steel – safety grill	1.4571	<b>800</b>	20x20	10,0	
39010-A4	Stainless steel – safety grill	1.4571	<b>900</b>	20x20	11,0	
31010-A4	Stainless steel - safety grill	1.4571	<b>1000</b>	20x20	12,0	

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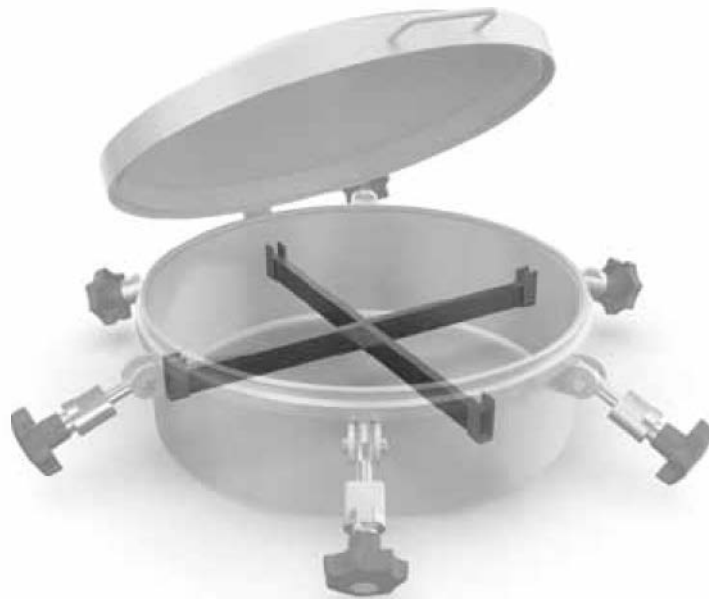
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### Standard Design

- Material 1.4301 or 1.4571, 1.4404
- With four brackets as support
- Surface: unpolished, pickled

### Optionen

- Material: 1.4435, 1.4539, 1.4529, 1.4462, HC-22, HC-276, etc.
- Manufactured from round bar
- Bolted version
- Cross secured with chain
- Polished surface



Article No.	Description	Material	NW	Cross Section of bar [mm]	Weight [kg]	Price in EUR
30111-A2	Stainless steel safety cross	1.4301	100	30x12	0,6	
31511-A2	Stainless steel safety cross	1.4301	150	30x12	0,9	
32011-A2	Stainless steel safety cross	1.4301	200	30x12	1,1	
32511-A2	Stainless steel safety cross	1.4301	250	30x12	1,4	
33011-A2	Stainless steel safety cross	1.4301	300	30x12	1,7	
33511-A2	Stainless steel safety cross	1.4301	350	30x12	2,0	
34011-A2	Stainless steel safety cross	1.4301	400	30x12	2,3	
34511-A2	Stainless steel safety cross	1.4301	450	30x12	2,5	
35011-A2	Stainless steel safety cross	1.4301	500	30x12	2,8	
36011-A2	Stainless steel safety cross	1.4301	600	30x12	3,4	
37011-A2	Stainless steel safety cross	1.4301	700	30x12	3,9	
38011-A2	Stainless steel safety cross	1.4301	800	30x12	4,5	
39011-A2	Stainless steel safety cross	1.4301	900	30x12	5,0	
31011-A2	Stainless steel safety cross	1.4301	1000	30x12	5,6	
<hr/>						
30111-A4	Stainless steel safety cross	1.4571	100	30x12	0,6	
31511-A4	Stainless steel safety cross	1.4571	150	30x12	0,9	
32011-A4	Stainless steel safety cross	1.4571	200	30x12	1,1	
32511-A4	Stainless steel safety cross	1.4571	250	30x12	1,4	
33011-A4	Stainless steel safety cross	1.4571	300	30x12	1,7	
33511-A4	Stainless steel safety cross	1.4571	350	30x12	2,0	
34011-A4	Stainless steel safety cross	1.4571	400	30x12	2,3	
34511-A4	Stainless steel safety cross	1.4571	450	30x12	2,5	
35011-A4	Stainless steel safety cross	1.4571	500	30x12	2,8	
36011-A4	Stainless steel safety cross	1.4571	600	30x12	3,4	
37011-A4	Stainless steel safety cross	1.4571	700	30x12	3,9	
38011-A4	Stainless steel safety cross	1.4571	800	30x12	4,5	
39011-A4	Stainless steel safety cross	1.4571	900	30x12	5,0	
31011-A4	Stainless steel safety cross	1.4571	1000	30x12	5,6	

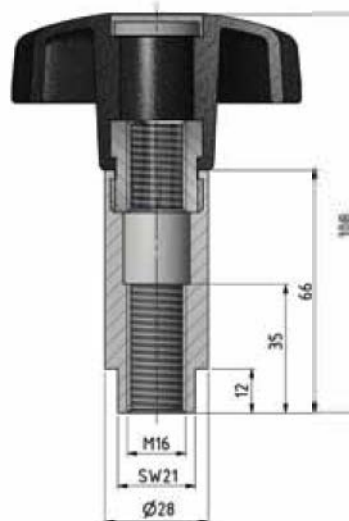


## 8.4 Nuts, bolts, handles, hinges ...

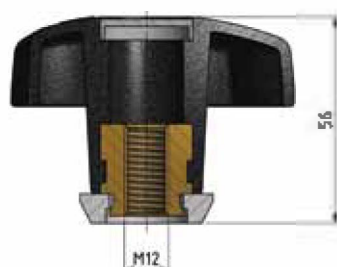
### Plastic handles



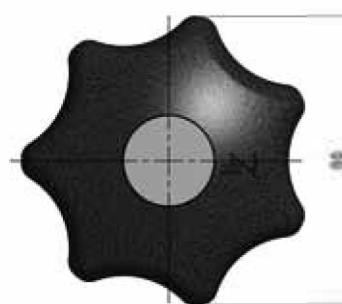
Plastic handle  
Art. No. 2016



Plastic handle  
Art. No. 2016L



Plastic handle  
Art. No. 3016



Plastic handle (top view)

Article No.	Size	Description	Price in EUR
2016	M16	Plastic handle with stainless steel insert (1.4301) and grey plastic cap	
3016	M12	Plastic handle with brass insert, grey cap and knurl-washer	
2016RS	M16	Plastic handle with stainless steel insert (1.4301) and grey plastic cap and knurl-washer	
2016L	M16	Extended plastic handle, total length: 105mm, with stainless steel insert (1.4301), grey cap	
2016LRS	M16	Extended plastic handle, total length: 105mm, with stainless steel insert (1.4301), grey cap and knurl-washer	
2016SK21	M16	Plastic handle with stainless steel insert (1.4301) and grey plastic cap, with hex-head	
200	---	Extended plastic handle, total length: 105mm, with stainless steel insert (1.4301), grey cap and knurl-washer1)	

Extra price per 10mm extension, for Article No. 2016L

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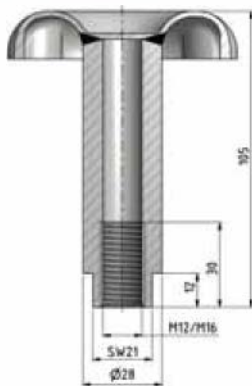


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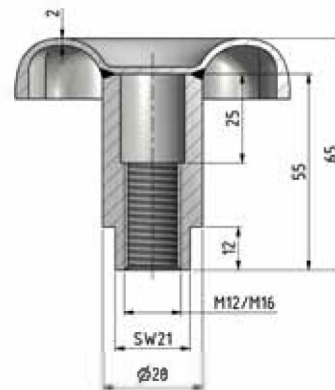
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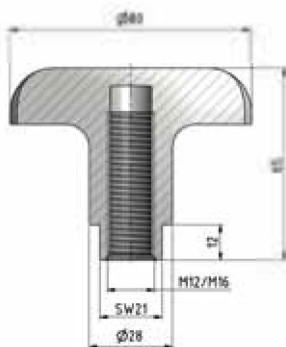
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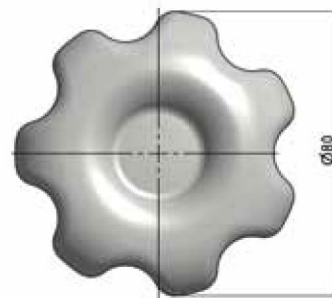
Stainless steel handle  
Art. No. 2022L / 3022L



Stainless steel handle  
Art. No. 2022/3022



Stainless steel handle  
Art. No. 2022V / 3022V



Stainless steel handle (Top view)

Article No.	Size	Description	Price in EUR
3022	M12	Stainless steel handle (1.4301)	
2022	M16	Stainless steel handle (1.4301)	
3022A4	M12	Stainless steel handle (1.4571)	
2022A4	M16	Stainless steel handle (1.4571)	
3022-400	M12	Stainless steel handle (Monell 400 / 1.4301)	
2022-400	M16	Stainless steel handle (Monell 400 / 1.4301)	
3022L	M12	Extended stainless steel handle (1.4301), total length: 105mm	
2022L	M16	Extended stainless steel handle (1.4301), total length: 105mm	
3022LA4	M12	Extended stainless steel handle (1.4571), total length: 105mm	
2022LA4	M16	Extended stainless steel handle (1.4571), total length: 105mm	
3022V	M12	Stainless-steel handle, machined from round bar (1.4301)	
2022V	M16	Stainless-steel handle, machined from round bar (1.4301)	
3022VA4	M12	Stainless-steel handle, machined from round bar (1.4571)	
2022VA4	M16	Stainless-steel handle, machined from round bar (1.4571)	

Further implementations on request!

Extra price per 10mm extension, for Art. Nr. 3022L / 2022L  
Extra price per 10mm extension, for Art. Nr. 3022LA4 / 2022LA4



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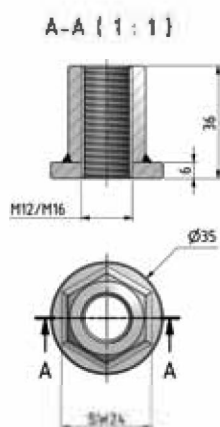
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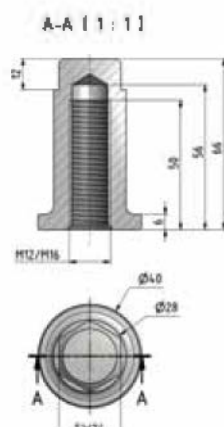


## 8.4 Nuts, bolts, handles, hinges ...

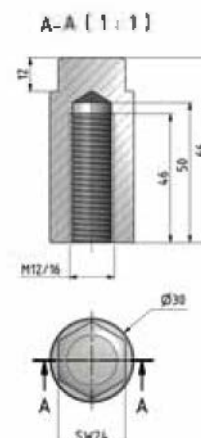
### Collar nuts



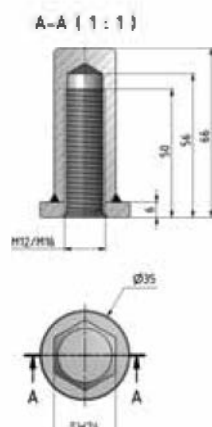
Collar nut M12/M16  
Art. No. 2031



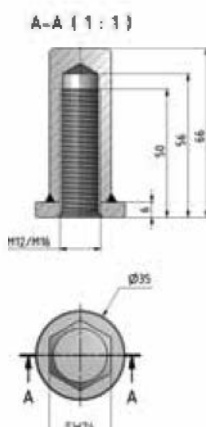
Collar nut M12/M16  
Art. No. 2031-A4



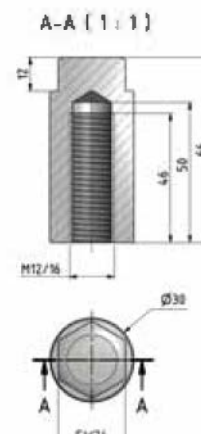
Collar nut M12/M16  
Art. No. 2031-400



Collar nut M12/M16  
Art. No. 2032



Collar nut M12/M16  
Art. No. 2032-A4



Collar nut M12/M16  
Art. No. 2032-400

Article No.	Size	Description	Price in EUR
2031	M12/M16	Collar nut (1.4301)	
2031-A4	M12/M16	Collar nut (1.4571 or 1.4404)	
2032	M12/M16	Collar nut with blind hole (1.4301)	
2032-A4	M12/M16	Collar nut with blind hole (1.4571 or 1.4404)	
2031-400	M12/M16	Collar nut (Monell 400)	
2032-400	M12/M16	Collar nut with blind hole (Monell 400)	

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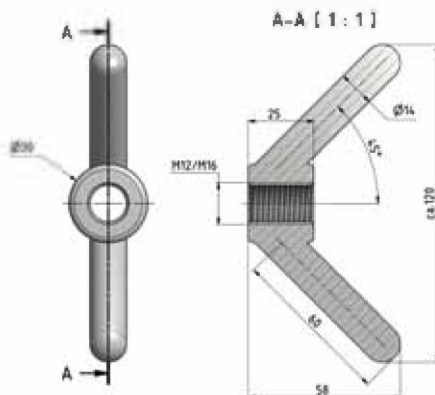
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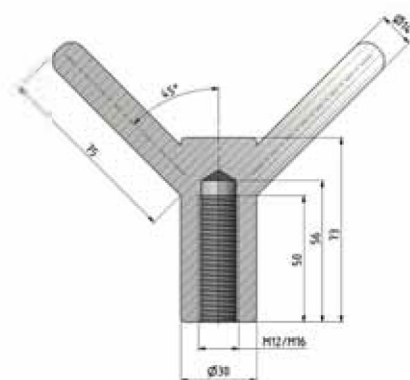


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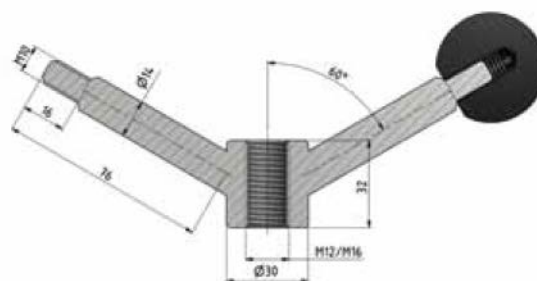




V-toggle M12/M16  
Art. No. 2023 / 2023-A4



V-toggle M12/M16  
Art. No. 2023S / 2023S-A4



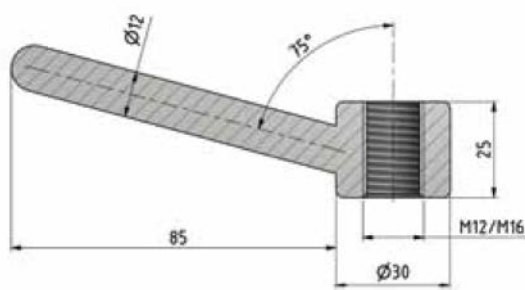
V-toggle M12/M16  
Art. No. 2023K / 2023K-A4

Article No.	Size	Description	Price in EUR
2023	M12/M16	V-toggle (1.4301)	
2023-A4	M12/M16	V-toggle (1.4571 oder 1.4404)	
2023S	M12/M16	V-toggle with blind hole (1.4301)	
2023S-A4	M12/M16	V-toggle with blind hole (1.4571 oder 1.4404)	
2023K	M12/M16	V-toggle (1.4301) with plastic-ball-handles (Duroplast PF)	
2023K-A4	M12/M16	V-toggle (1.4571 or 1.4404) with plastic-ball-handles (Duroplast PF)	

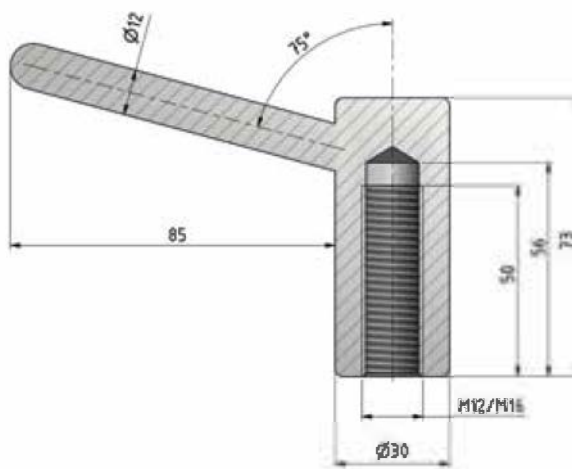


## 8.4 Nuts, bolts, handles, hinges ...

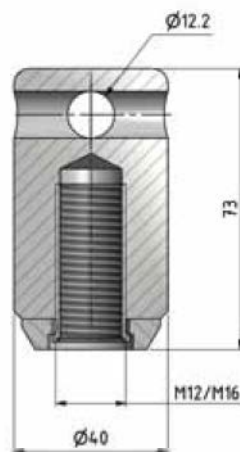
### One Arm Toggle



One Arm Toggle M12/M16  
Art. No. 2023E / 2023E-A4



One Arm Toggle M12/M16  
Art. No. 2023ES / 2023ES-A4



Blind hole nut M12/16  
Art. Nr. 2023/ 2024-A4

Article No.	Size	Description	Price in EUR
2023E	M12/M16	One Arm Toggle (1.4301)	
2023E-A4	M12/M16	One Arm Toggle (1.4571 or 1.4404)	
2023ES	M12/M16	One Arm Toggle with blind hole (1.4301)	
2023ES-A4	M12/M16	One Arm Toggle with blind hole (1.4571 or 1.4404)	
2024	M12/M16	Blind hole nut with washer (1.4301)	
2024-A4	M12/M16	Blind hole nut with washer (1.4571 or 1.4404)	

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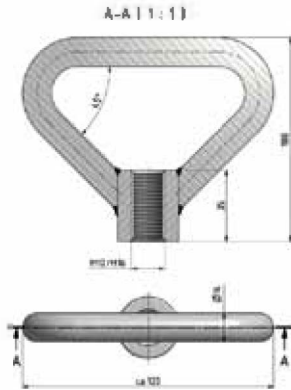


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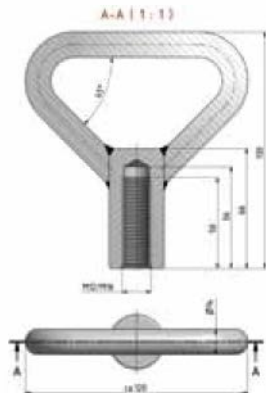
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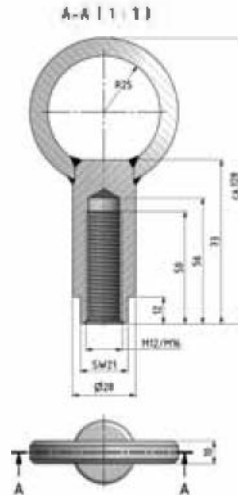
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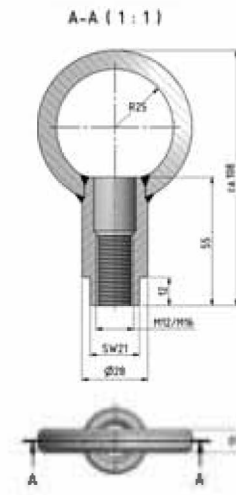
Triangle Nut with blind hole M12/M16  
Art. No. 2023T / 2024T-A4



Triangle Nut with blind hole M12/M16  
Art. No. 2023TS / 2024TS-A4



Ring nut M12/M16  
Art. No. 2023RS / 2023RS-A4



Ring nut M12/M16  
Art. No. 2023R / 2023R-A4

Article No.	Size	Description	Price in EUR
2023R	M12/M16	Ringnut (1.4301) with two flats SW24	
2023R-A4	M12/M16	Ringnut (1.4571 or 1.4404) with two flats SW24	
2023RS	M12/M16	Ringnut with blind hole (1.4301) with two flats SW24	
2023RS-A4	M12/M16	Ringnut with blind hole (1.4571 or 1.4404) with two flats SW24	
2023T	M12/M16	Triangle Nut (1.4301)	
2023T-A4	M12/M16	Triangle Nut (1.4571 oder 1.4404)	
2023TS	M12/M16	Triangle Nut with blind hole (1.4301)	
2023TS-A4	M12/M16	Triangle Nut with blind hole (1.4571 or 1.4404)	
Extra price for the machining of two flats (SW24)			



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## 8.4 Nuts, bolts, handles, hinges ...

### Bolts

Article No.	Description	Size	Weight [kg]	Price in EUR
2200 125	Swing pin complete for pressure cover up to NW349	M16 x 125	0,9	<b>78,00€</b>
2200 135	Swing pin complete for pressure cover over NW350	M16 x 135	0,9	<b>79,00€</b>
2210	Swing pin complete for 1-bar cover (with TÜV-approval)	M16 x 110	0,85	<b>66,00€</b>
3210	Swing pin complete for 1-bar cover (without TÜV-approval)	M12 x 110	0,6	<b>63,00€</b>
3200	Swing pin complete for pressureless dome cover	M12 x 135	0,49	<b>49,00€</b>
2015 125	Eye bolt for pressure cover	M16 x 125	0,3	<b>25,00€</b>
2015 135	Eye bolt for pressure cover	M16 x 135	0,3	<b>26,00€</b>
2115	Eye bolt for 1-bar cover (with TÜV-approval)	M16 x 110	0,28	<b>16,00€</b>
3015 110	Eye bolt for 1-bar cover (without TÜV approval)	M12 x 110	0,11	<b>13,00€</b>
3015 135	Eye bolt for pressureless dome cover	M12 x 135	0,13	<b>14,00€</b>

### Ball handles

Article No.	Description	Price in EUR
Kugel 32	Plastic-Ball Ø 32mm	
KugelVA32	Stainless-Steel-Ball Ø32mm (1.4301)	
Kugel 40	Plastic-Ball Ø40mm	
KugelVA40	Stainless-Steel-Ball Ø40mm (1.4301)	

### Hinges

Article No.	Description	Price in EUR
2025KK	Stainless-Steel-Ball Ø40mm (1.4301)	
2025KK-45	Hinge for pressure cover (pivot point moved about 45mm), up to NW400	
2025KK-90	Hinge for pressure cover (pivot point moved about 90mm), up to NW400	
2025K	Reinforced hinge for pressure cover (standard length), up to NW600	
2025K-45	Reinforced hinge for pressure cover (pivot point moved about 45mm), up to NW600	
2025K-90	Reinforced hinge for pressure cover (pivot point moved about 90mm), up to NW600	
2025KD	Double hinge for pressure cover NW > 700	
20251K	Hinge for 1-bar-cover	
2011	Swivel feature for pressure covers up to NW600	
3023	Hinge for pressureless dome cover (swing and foldable)	
3025K	Hinge for pressureless dome cover (only foldable)	
2025KS	Cone swivel hinge net	

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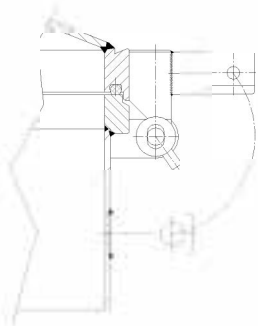


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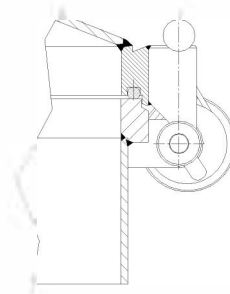
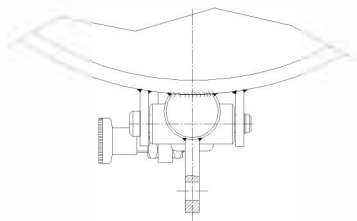
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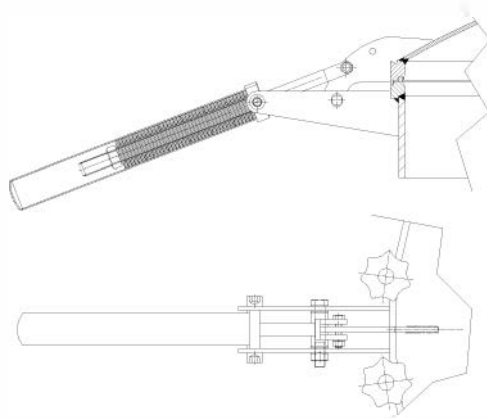
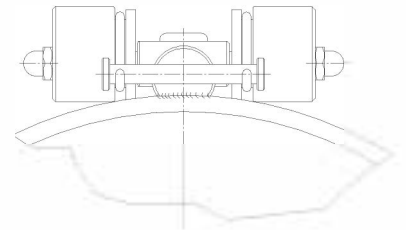
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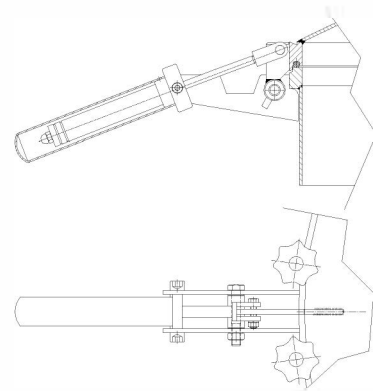
Locking Pin



Spring assist with torsion springs (single version)



Spring assist with Disc-Springs (single version)



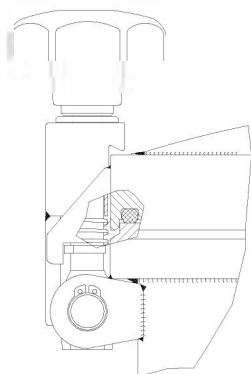
Spring assist with Gas-Spring (single version)

Article No.	Description	Price in EUR
2028	Spring assist with torsion springs (single version)	
2028 d	Spring assist with torsion springs (double version > NW 600)	
2028 Paket	Spare-Springs for spring assist with torsion springs, thickness. t=4mm, 5mm, 6mm, 6,5mm, 7mm, package includes right and left version (for standard hinge)	
2028 V Paket	Spare-Springs for spring assist with torsion springs, thickness. t=4mm, 5mm, 6mm, 6,5mm, 7mm, package includes right and left version (for reinforced hinge)	
2030 h	Spring assist with Disc-Springs (horizontal, single version)	
2030 v	Spring assist with Disc-Springs (vertical, single version)	
2030 dh	Spring assist with Disc-Springs (horizontal, double version > NW 600)	
2030 dv	Spring assist with Disc-Springs (vertical, double version > NW 600)	
2033 h	Spring assist with gas springs (horizontal, single version)	
2033 v	Spring assist with gas springs (vertical, single version)	
2033 dh	Spring assist with gas springs (horizontal, double version > NW 600)	
2033 dv	Spring assist with gas springs (vertical, double version > NW 600)	
2029	Locking Pin, with plastic knob	
2029 VA	Locking Pin, with stainless steel knob	





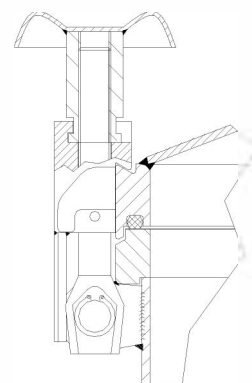
## 8.6 Special equipment



### Safety release system

Article No. 2027 AL

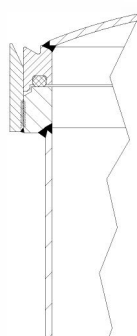
Efforts manual pressure release and lifting of the cover. Only when the cover was lifted about 10-15mm, it is possible to swing the screw away.



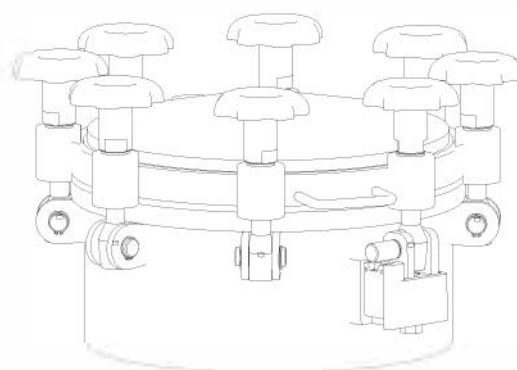
### Pressure release system

Article No. 2027 ZL

The pressure release and lifting of the cover happens by opening of the handle. After lifting the cover about 10mm it is possible to swing the screw away.



Wedge for side installation  
Article No. 2026



Screw with safety device  
Article No. 2027SK

Article No.	Description	Price in EUR
2027 AL	Safety release system for pressure cover and 1-bar cover (e.g. for 2210125, 2210135, 2210)	
2027 ZL	Pressure release system for pressure cover and 1-bar cover (e.g. for 2210125, 2210135, 2210)	
2027 SK	Screw with safety device, with limit switch type Stahl 8064	
2026	Wedge for side installation for pressure cover and 1-bar cover	

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### Borosilicate glasses

for Glass cover (chapter 2.1)

Article No.	NW	for glass cover	Size [mm]	Price in EUR
221020	100	NW100	Ø 125 x 20	
221520	150	NW150	Ø 175 x 20	
221525	150	NW150	Ø 175 x 25	
222020	200	NW200	Ø 225 x 20	
222025	200	NW200	Ø 225 x 25	
222525	250	NW250	Ø 275 x 25	
222530	250	NW250	Ø 275 x 30	
223030	300	NW300	Ø 325 x 30	
223530	350	NW350	Ø 375 x 30	
224030	400	NW400	Ø 425 x 30	
224530	450	NW450	Ø 475 x 30	
225030	500	NW500	Ø 525 x 30	
226030	600	NW600	Ø 625 x 30	

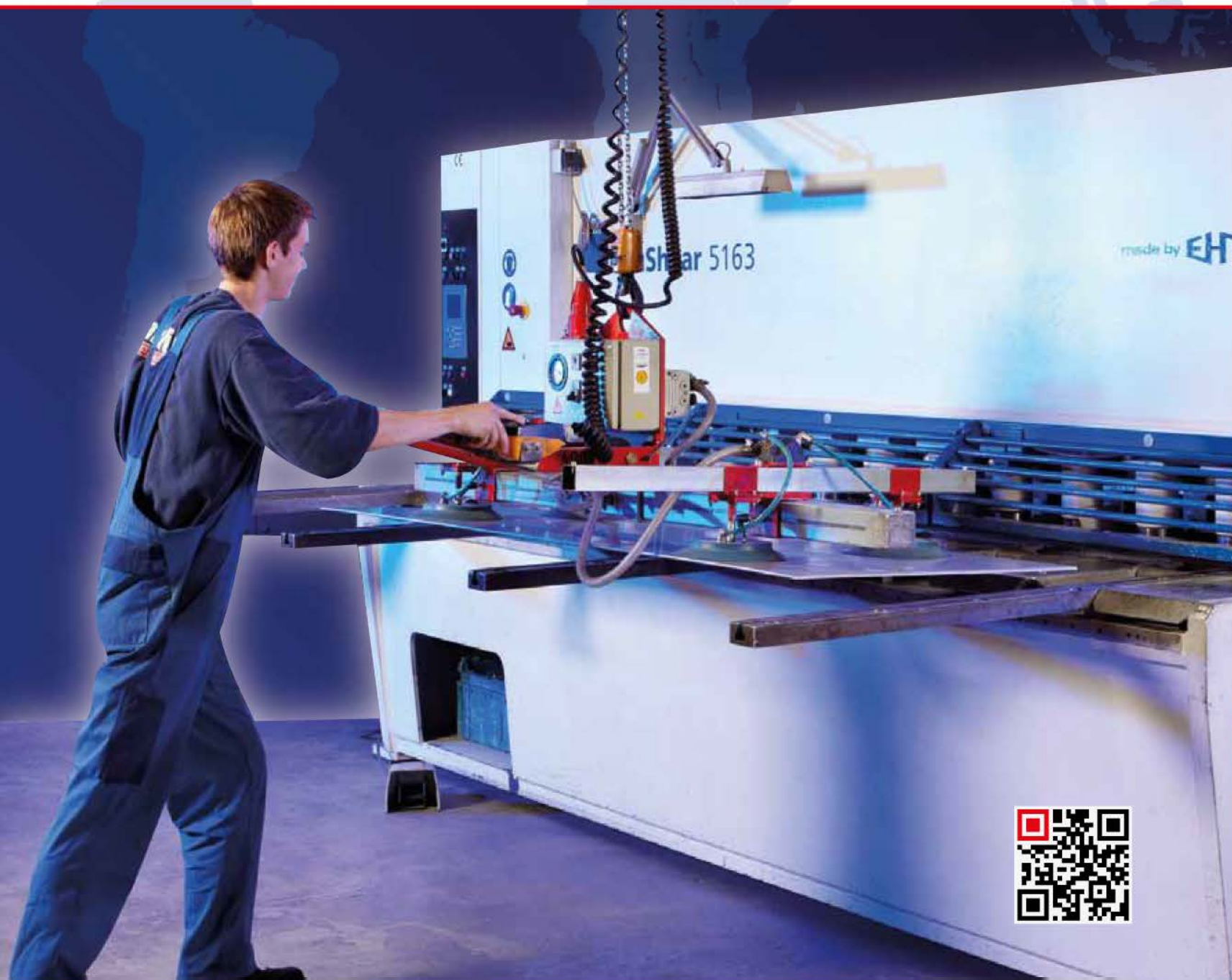
### Soda lime glasses

for pressureless Glass cover (chapter 2.4)

Article No.	Article No.	for glass cover	Size [mm]	Price in EUR
33206	33206	NW200	Ø 224 x 6	
33256	33256	NW250	Ø 274 x 6	
33306	33306	NW300	Ø 324 x 6	
33356	33356	NW350	Ø 374 x 6	
33406	33406	NW400	Ø 424 x 6	
33456	33456	NW450	Ø 474 x 6	
33506	33506	NW500	Ø 524 x 6	
33606	33606	NW600	Ø 624 x 6	



## 9. Gaskets



# Gaskets

## 9.1 O-Ring-Gaskets

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## 9.2 P-Profile-Gaskets

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## 9.3 Gasket Sets for Glass-Covers

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## 9.4 Profile-Gaskets for pressureless covers

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## 9.5 Gaskets for Handhole Cover 190x240

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## 9.6 Special Gaskets





## 9.1 O-Ring gaskets

To fit into the following Products:

- 1.1 Round Pressure Cover up to 8/-1 bar
- 1.2 Round Pressure Cover from 10/-1 bar
- 1.4 1 bar-Cover up to 1/-1 bar
- 1.5 Pressure Cone Cover up to 6/-1 bar
- 1.6 Oval Pressure Cover up to 10/-1 bar
- 1.7 Automatic Pressure Cover up to 8/-1 bar
- 2.1 Glass-Cover up to 12/-1 bar
- 2.2 Glass-Cover with Metaglass® up to 12/1 bar
- 2.3 Meta-Flange-Sightglass up to 10/-1 bar
- 2.4 Pressureless Glass-Cover
- 3.2 Manhole-Cover, oval 510 x 410
- 4.2 Pressureless Dome-Cover with crossarm and O-ring-gasket
- 5.1 Aseptic-Line-Covers up to 0,49/-1 bar
- 5.2 Aseptic-Line-Covers up to 2/-1 bar, 4/-1 bar, 6/-1 bar

NW	Silicone transparent +200° C / -50° C FDA / USP Class VI		EPDM black +150°C/-50°C (FDA/USP) black +140°C/-40°C (vulk. FDA)		Viton green +200° C / - 20° C	
	Article No.	Price in EUR	Article No.	Price in EUR	Article No.	Price in EUR
<b>Gasket to chapter 1.1, 1.2, 1.4, 1.5, 1.7, 2.1, 2.2, 2.4, 4.2</b>						
<b>100</b>	201si		201ep	vulc. FDA	201vi	green FDA
<b>150</b>	215si		215ep	vulc. FDA	215vi	green FDA
<b>200</b>	220si		220ep	FDA / USP	220vi	green FDA
<b>250</b>	225si		225ep	vulc. FDA	225vi	green FDA
<b>300</b>	230si		230ep	FDA / USP	230vi	green FDA
<b>350</b>	235si		235ep	vulc. FDA	235vi	green FDA
<b>400</b>	240si		240ep	FDA / USP	240vi	green FDA
<b>450</b>	245si		245ep	FDA / USP	245vi	green FDA
<b>500</b>	250si		250ep	FDA / USP	250vi	green FDA
<b>600</b>	260si		260ep	FDA / USP	260vi	green FDA
<b>700</b>	270si		270ep	vulc. FDA	270vi	green FDA
<b>800</b>	280si		280ep	vulc. FDA	280vi	green FDA
<b>900</b>	290si		290ep	vulc. FDA	290vi	black vulc. FDA
<b>1000</b>	210si		210ep	vulc. FDA	210vi	black vulc. FDA
<b>Gasket to chapter 1.6</b>						
<b>200 x 300</b>	22030si		22030ep	vulc. FDA	22030vi	black vulc. FDA
<b>250 x 350</b>	22535si		22535ep	vulc. FDA	22535vi	black vulc. FDA
<b>300 x 400</b>	23040si		23040ep	vulc. FDA	23040vi	black vulc. FDA
<b>350 x 450</b>	23545si		23545ep	vulc. FDA	23545vi	black vulc. FDA
<b>400 x 500</b>	24050si		24050ep	vulc. FDA	24050vi	black vulc. FDA
<b>Gasket to chapter 2.3</b>						
<b>100</b>	210si-FL		210ep-FL	vulc. FDA	210vi-FL	black vulc.
<b>125</b>	212si-FL		212ep-FL	vulc. FDA	212vi-FL	black vulc.
<b>150</b>	215si-FL		215ep-FL	vulc. FDA	215vi-FL	black vulc.
<b>175</b>	217si-FL		217ep-FL	vulc. FDA	217vi-FL	black vulc.
<b>200</b>	220si-FL		220ep-FL	vulc. FDA	220vi-FL	black vulc.
<b>225</b>	225si-FL		225ep-FL	vulc. FDA	225vi-FL	black vulc.
<b>Gasket to chapter 3.2</b>						
<b>410 x 510</b>	1022si		1022ep	vulc. FDA	1022vi	black vulc. FDA
<b>Gasket to chapter 3.1 und 5.2</b>						
<b>200</b>	220si-ASL		220ep-ASL	vulc. FDA	220vi-ASL	black vulc.
<b>250</b>	225si-ASL		225ep-ASL	vulc. FDA	225vi-ASL	black vulc.
<b>300</b>	230si-ASL		230ep-ASL	vulc. FDA	230vi-ASL	black vulc.
<b>350</b>	235si-ASL		235ep-ASL	vulc. FDA	235vi-ASL	black vulc.
<b>400</b>	240si-ASL		240ep-ASL	vulc. FDA	240vi-ASL	black vulc.
<b>450</b>	245si-ASL		245ep-ASL	vulc. FDA	245vi-ASL	black vulc.
<b>500</b>	250si-ASL		250ep-ASL	vulc. FDA	250vi-ASL	black vulc.
<b>600</b>	260si-ASL		260ep-ASL	vulc. FDA	260vi-ASL	black vulc.





NW	FEP-Silicone FEP-encapsulated +200° C / -60° C shell: transparent core: red FDA / USP Class VI		FEP-Viton FEP-encapsulated +200° C / -20° C shell: transparent core: black FDA / USP Class VI		FEP-EDPM FEP-encapsulated +140° C / -40° C shell: transparent core: black FDA / USP Class VI		PFA-Silicone PFA-encapsulated +230° C / -60° C shell: transparent core: red FDA / USP Class VI	
	Article No.	Price in EUR	Article No.	Price in EUR	Article No.	Price in EUR	Article No.	Price in EUR
<b>Gasket to chapter 1.1, 1.2, 1.4, 1.5, 1.7, 2.1, 2.2, 2.4, 4.2</b>								
100	201fes		201fev		201fee		201pfa	
150	215fes		215fev		215fee		215pfa	
200	220fes		220fev		220fee		220pfa	
250	225fes		225fev		225fee		225pfa	
300	230fes		230fev		230fee		230pfa	
350	235fes		235fev		235fee		235pfa	
400	240fes		240fev		240fee		240pfa	
450	245fes		245fev		245fee		245pfa	
500	250fes		250fev		250fee		250pfa	
600	260fes		260fev		260fee		260pfa	
700	270fes		270fev		270fee		270pfa	
800	280fes		280fev		280fee		280pfa	
900	290fes		290fev		290fee		290pfa	
1000	210fes		210fev		210fee		210pfa	
<b>Gasket to chapter 1.6</b>								
200 x 300	22030fes		22030fev		22030fee		22030pfa	
250 x 350	22535fes		22535fev		22535fee		22535pfa	
300 x 400	23040fes		23040fev		23040fee		23040pfa	
350 x 450	23545fes		23545fev		23545fee		23545pfa	
400 x 500	24050fes		24050fev		24050fee		24050pfa	
<b>Gasket to chapter 2.3</b>								
100	210fes-FL		210fev-FL		210fee-FL		210pfa-FL	
125	212fes-FL		212fev-FL		212fee-FL		212pfa-FL	
150	215fes-FL		215fev-FL				215pfa-FL	
175	217fes-FL		217fev-FL		217fee-FL		217pfa-FL	
200	220fes-FL		220fev-FL		217fee-FL		220pfa-FL	
225	225fes-FL		225fev-FL		225fee-FL		225pfa-FL	
<b>Gasket to chapter 3.2</b>								
410 x 510	1022fes		1022fev		1022fee		1022pfa	
<b>Gasket to chapter 5.1 und 5.2</b>								
200	220fes-ASL		220fev-ASL		220fee-ASL		220pfa-ASL	
250	225fes-ASL		225fev-ASL		225fee-ASL		225pfa-ASL	
300	230fes-ASL		230fev-ASL		230fee-ASL		230pfa-ASL	
350	235fes-ASL		235fev-ASL		235fee-ASL		235pfa-ASL	
400	240fes-ASL		240fev-ASL		240fee-ASL		240pfa-ASL	
450	240fes-ASL		245fev-ASL		245fee-ASL		240pfa-ASL	
500	250fes-ASL		250fev-ASL		250fee-ASL		250pfa-ASL	
600	260fes-ASL		260fev-ASL		260fee-ASL		260pfa-ASL	

**Option:** platinum cured Silicon-gasket, vulcanized, USP Cl. VI and FDA-compliant (+200°C/-60°C).  
All O-Ring gaskets mentioned above are also available in intermediate sizes.

Silicone, EPDM and Viton vulcanized (FDA-compliant).  
Differences in resistance and colours are possible.  
Prices on request.



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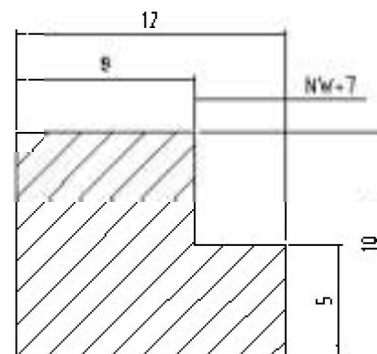
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Edelstahl-Technik  
Frohmatenstr. 19  
D-79268 Bötzingen



## 9.2 P-Profile-Gaskets

### To fit into the following Products:

- 1.1 Round Pressure Cover up to 8/-1 bar
- 1.2 Round Pressure Cover from 10/-1 bar
- 1.4 1 bar-Cover up to 1/-1 bar
- 1.5 Pressure Cone Cover up to 6/-1 bar
- 1.6 Oval Pressure Cover up to 10/-1 bar
- 1.7 Automatic Pressure Cover up to 8/-1 bar
- 2.1 Glass-Cover up to 12/-1 bar
- 2.2 Glass-Cover with Metaglass® up to 12/1 bar
- 2.4 Pressureless Glass-Cover



NW	Silicone transparent +200° C / -60° C FDA		EPDM black + 90° C / -30° C glued (without FDA)	
	Article No.	Price in EUR	Article No.	Price in EUR
100	201sip		201epp	
150	215sip		215epp	
200	220sip		220epp	
250	225sip		225epp	
300	230sip		230epp	
350	235sip		235epp	
400	240sip		240epp	
450	245sip		245epp	
500	250sip		250epp	
600	260sip		260epp	
700	270sip		270epp	
800	280sip		280epp	
900	290sip		290epp	
1000	210sip		210epp	

All O-Ring gaskets mentioned above are also available in intermediate sizes.

Differences in resistance and colours are possible.  
Prices on request.

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### To fit into the following Products:

- 2.1 Glass cover up to 12/-1bar

NW	Article No. Gasket Set	Dimension of holding gasket Silicone	Dimension of flat gasket Silicone	Price in EUR
100	221 000 D	Ø 4 mm x 402 mm	Ø 125 x Ø 100 x 1,5 mm	
150	215 500 D	Ø 4 mm x 559 mm	Ø 175 x Ø 150 x 1,5 mm	
200	222 000 D	Ø 4 mm x 716 mm	Ø 225 x Ø 200 x 1,5 mm	
250	222 500 D	Ø 4 mm x 873 mm	Ø 275 x Ø 250 x 1,5 mm	
300	223 000 D	Ø 4 mm x 1030 mm	Ø 325 x Ø 300 x 1,5 mm	
350	223 500 D	Ø 4 mm x 1187 mm	Ø 375 x Ø 350 x 1,5 mm	
400	224 000 D	Ø 4 mm x 1345 mm	Ø 425 x Ø 400 x 1,5 mm	
450	224 500 D	Ø 4 mm x 1502 mm	Ø 475 x Ø 450 x 1,5 mm	
500	225 000 D	Ø 4 mm x 1659 mm	Ø 525 x Ø 500 x 1,5 mm	
600	226 000 D	Ø 4 mm x 1973 mm	Ø 625 x Ø 600 x 1,5 mm	

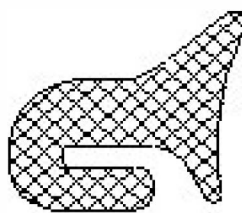
### To fit into the following Products:

- 2.4 Pressureless Glasscover

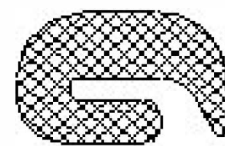
NW	Article No. Gasket Set	Dimension of holding gasket Silicone	Dimension of flat gasket Silicone	Price in EUR
200	332 004 D	Ø 4 mm x 700 mm	Ø 225 x 200 x 1,5 mm	
250	332 504 D	Ø 4 mm x 858 mm	Ø 275 x 250 x 1,5 mm	
300	333 004 D	Ø 4 mm x 1014 mm	Ø 325 x 300 x 1,5 mm	
350	333 504 D	Ø 4 mm x 1172 mm	Ø 375 x 350 x 1,5 mm	
400	334 004 D	Ø 4 mm x 1329 mm	Ø 425 x 400 x 1,5 mm	
450	334 504 D	Ø 4 mm x 1486 mm	Ø 475 x 450 x 1,5 mm	
500	335 004 D	Ø 4 mm x 1643 mm	Ø 525 x 500 x 1,5 mm	
600	336 004 D	Ø 4 mm x 1957 mm	Ø 625 x 600 x 1,5 mm	



## 9.4 Profile gaskets for pressureless dome cover



„New“ shape,  
(> NW200)



„Old“ shape,  
(up to NW150)

### To fit into the following Products:

- 4.1 Pressureless Dome-Cover with crossarm and profile-gasket

NW	Silicone-Gasket transparent +200° C / -60° C FDA		EPDM-Gasket black + 90° C / -30° C FDA	
	Article No.	Price in EUR	Article No.	Price in EUR
100	310si		310ep	vulc. FDA
150	315si		315ep	vulc. FDA
200	320si		320ep	vulc. FDA
250	325si		325ep	vulc. FDA
300	330si		330ep	vulc. FDA
400	340si		340ep	vulc. FDA
460	346si		346ep	vulc. FDA
500	350si		350ep	vulc. FDA
600	360si		360ep	vulc. FDA
800	380si		380ep	vulc. FDA

NW	Perbunan-Gasket black +100° C / -30° C		Viton-Gasket black + 230° C / -18° C FDA	
	Article No.	Price in EUR	Article No.	Price in EUR
100	310pe		310vi	
150	315pe		315vi	
200	320pe		320vi	
250	325pe		325vi	
300	330pe		330vi	
400	340pe		340vi	
460	346pe		346vi	
500	350pe		350vi	
600	360pe		360vi	
800	380pe		380vi	

All O-Ring gaskets mentioned above are also available in intermediate sizes.

Differences in resistance and colours are possible.  
Prices on request.

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**To fit into the following Products:**

- 3.3 Hand-Hole cover 190 x 240

Article No.	Description	Price in EUR
321si	Silicone gasket for handhole cover 190x240	
321ep	EPDM gasket for handhole cover 190x240	

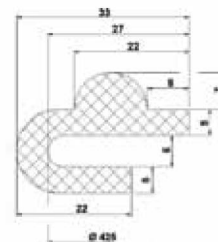




## 9.6 Special Gaskets

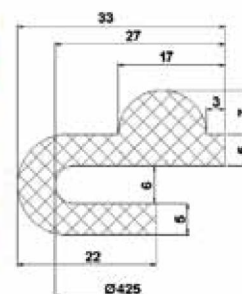
### Mould 1185

Article No.	Size	Quality	SBG No.	Price in EUR
S1185-375EP	LW 375mm (NW 325 x 425)	EPDM, purple (Quality: 128.60)	1185/01-2	
S1185-375NR	LW 375mm (NW 325 x 425)	Natural rubber, dark red (Quality: 230.50)	1185/02-1	
S1185-375PE	LW 375mm (NW 325 x 425)	Perbunan (NBR), red (Quality: 429.65)	1185/04-1	
S1185-375VI	LW 375mm (NW 325 x 425)	Viton, brown (Quality: 827.70)	1185/08-1	



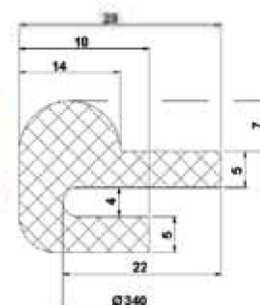
### Mould 1185/A Zimmerlin Standard

Article No.	Size	Quality	SBG No.	Price in EUR
102 0EP	LW 380mm (NW 325 x 425)	EPDM, purple (Quality: 128.60)	1185/01-2/A	
102 000	LW 380mm (NW 325 x 425)	Natural rubber, dark red (Quality: 230.50)	1185/02-1/A	
102 0PE	LW 380mm (NW 325 x 425)	Perbunan (NBR), red (Quality: 429.65)	1185/04-1/A	
102 0SI	LW 380mm (NW 325 x 425)	Silicone, light red (Quality: 736.50)	1185/07-1/A	
102 0VI	LW 380mm (NW 325 x 425)	Viton, brown (Quality: 827.70)	1185/08-1/A	



### Mould 1349

Article No.	Size	Quality	SBG No.	Price in EUR
S1349-295EP	LW 295mm (NW 340)	EPDM, purple (Quality: 128.60)	1349/01-1	
S1349-295NR	LW 295mm (NW 340)	Natural rubber, dark red (Quality: 230.50)	1349/02-1	



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\*Price and delivery time on request, minimum order quantity 25 pieces



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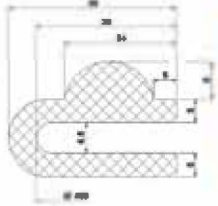
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### Mould 5019



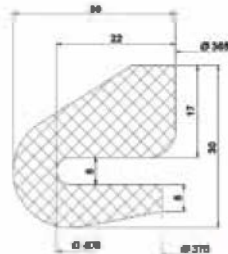
Article No.	Size	Quality	SBG No.	Price in EUR
S5019-400EP6,5	LW 400mm (Schlitzbr. 6,5mm)	EPDM, purple (Quality: 128.60)	5019/01-1	
S5019-400NR6,5	LW 400mm (Schlitzbr. 6,5mm)	Natural Rubber, dark red (Quality: 230.50)	5019/02-1	
S5019-400PE6,5	LW 400mm (Schlitzbr. 6,5mm)	Perbunan (NBR), red (Quality: 429.65)	5019/04-1	

### Mould 5019/A



Article No.	Size	Quality	SBG No.	Price in EUR
S5019-400EP3,5	LW 400mm (Schlitzbr. 3,5mm)	EPDM, purple (Quality: 128.60)	5019/01-1/A	
S5019-400NR3,5	LW 400mm (Schlitzbr. 3,5mm)	Natural Rubber, dark red (Quality: 230.50)	5019/02-1/A	
S5019-400PE3,5	LW 400mm (Schlitzbr. 3,5mm)	Perbunan (NBR), red (Quality: 429.65)	5019/04-1/A	
S5019-400SI3,5	LW 400mm (Schlitzbr. 3,5mm)	Silicon, red (Quality: 736.50)	5019/07-1/A	

### Mould 5204



Article No.	Size	Quality	SBG No.	Price in EUR
S5204-365EP	LW 365mm	EPDM, purple (Quality: 128.60)	5204/01-2	
S5204-365NR	LW 365mm	Natural Rubber, dark red (Quality: 230.50)	5204/02-1	
S5204-365PE	LW 365mm	Perbunan (NBR), red (Quality: 429.65)	5204/04-1	

### Mould 5257



Article No.	Size	Quality	SBG No.	Price in EUR
S5257NR-PFAUDLER		Perbunan (NBR), red (Quality: 429.65)	5257/02-1	
S5257-385PE	LW 385 mm	Perbunan (NBR), red (Quality: 429.65)	5257/04-1	

\*Price and delivery time on request, minimum order quantity 25 pieces





# 10. Others





**11. GTC**



Terms see **[www.zimmerlin.de](http://www.zimmerlin.de)**



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