

# KLINGER MARINE VALVES & GASKETS



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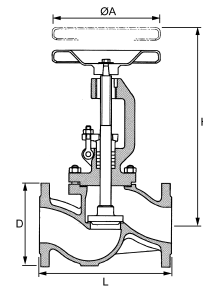
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# **Globe & SDNR Valves**

## **Cast Iron**

## Globe valves

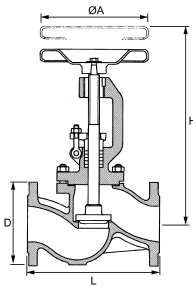
<b>Globe valves cast iron</b>		<b>Type : 215</b>
<b>Flange connection PN16, shut off straight form</b>		
<b>Suitable for:</b> Cold and hot water, steam, air, neutral fluids.		
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* compact construction</li> <li>* No maintenance</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>215</b>	
<b>Material</b>	: <b>Cast iron EN-GJL-250</b>	
<b>Bonnet</b>	: EN-GJL-250	
<b>Seat</b>	: CuSn10-B	
<b>Disc</b>	: CuSn-10-B	
<b>Stem</b>	: CuSn-10-B	
<b>Packing</b>	: Graphite	
<b>Flanges</b>	: PN16 acc. to EN 1092-2	
<b>Temperature</b>	: max. 225°C	



### 215 shut off straight form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100020	15	130	100	172	95	65 x 4 x 14	3,3
05100021	20	150	100	173	105	75 x 4 x 14	3,9
05108205	25	160	120	182	115	85 x 4 x 14	5,0
05100022	32	180	120	200	140	100 x 4 x 19	6,6
05100023	40	200	160	255	150	110 x 4 x 19	8,4
05108207	50	230	160	273	165	125 x 4 x 19	12,0
05105286	65	290	180	295	185	145 x 4 x 19	17,3
05100024	80	310	200	332	200	160 x 8 x 19	22,7
05108208	100	350	250	369	220	180 x 8 x 19	35,8
05100025	125	400	250	432	250	210 x 8 x 19	52,8
05100026	150	480	320	483	285	240 x 8 x 23	74,2
05100027	200	600	360	579	340	295 x 12 x 23	126,0
05100028	250	730	360	758	405	355 x 12 x 28	200,0
05100029	300	850	500	830	460	410 x 12 x 28	315,0

## Globe valves



### Globe valves cast iron

Type : 215A

Flange connection PN16, shut off straight form

Suitable for: Cold and hot water, steam, air, neutral fluids.

- \* High tightness
- \* compact construction
- \* No maintenance

### Specifications

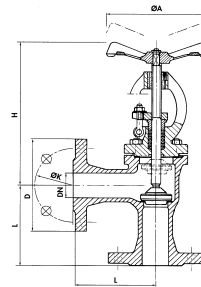
<b>Type</b>	: 215A
<b>Material</b>	: Cast iron EN-GJL-250
Bonnet	: EN-GJL-250
Seat	: 1.4006
Disc	: 1.4021
Stem	: 1.4021
Packing	: Graphite
Flanges	: PN16 acc. to EN 1092-2
Temperature	: max. 300°C

### 215A shut off straight form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100128	15	130	100	172	95	65 x 4 x 14	3,3
05100129	20	150	100	173	105	75 x 4 x 14	3,9
05100130	25	160	120	182	115	85 x 4 x 14	5,0
05100131	32	180	120	200	140	100 x 4 x 19	6,6
05100132	40	200	160	255	150	110 x 4 x 19	8,4
05100133	50	230	160	273	165	125 x 4 x 19	12,0
05100134	65	290	180	295	185	145 x 4 x 19	17,3
05100135	80	310	200	332	200	160 x 8 x 19	22,7
05100136	100	350	250	369	220	180 x 8 x 19	35,8
05108333	125	400	250	432	250	210 x 8 x 19	52,8
05100137	150	480	320	483	285	240 x 8 x 23	74,2
05100138	200	600	360	579	340	295 x 12 x 23	126,0
05100139	250	730	360	758	405	355 x 12 x 28	200,0
05100140	300	850	500	830	460	410 x 12 x 28	315,0

## Globe valves

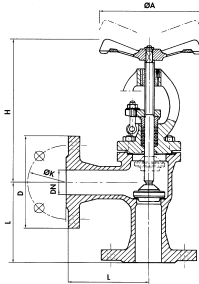
<b>Globe valves cast iron</b>		<b>Type : 216</b>
<b>Flange connection PN16, shut off angle form</b>		
<b>Suitable for:</b> Cold and hot water, steam, air, neutral fluids.		
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* Compact construction</li> <li>* No maintenance</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>216</b>	
<b>Material</b>	: <b>Cast iron EN-GJL-250</b>	
<b>Bonnet</b>	: EN-GJL-250	
<b>Seat</b>	: CuSn10-B	
<b>Disc</b>	: CuSn-10-B	
<b>Stem</b>	: CuSn-10-B	
<b>Packing</b>	: Graphite	
<b>Flanges</b>	: PN16 acc. to EN 1092-2	
<b>Temperature</b>	: max. 225°C	



### 216 shut off angle form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100001	15	90	100	168	95	65 x 4 x 14	3,1
05100002	20	95	100	166	105	75 x 4 x 14	3,5
05100003	25	100	120	180	115	85 x 4 x 14	4,8
05100004	32	105	120	188	140	100 x 4 x 19	6,6
05100005	40	115	160	234	150	110 x 4 x 19	8,7
05108198	50	125	160	236	165	125 x 4 x 19	11,8
05100006	65	145	180	271	185	145 x 4 x 19	14,0
05108199	80	155	200	291	200	160 x 8 x 19	20,5
05100007	100	175	250	332	220	180 x 8 x 19	32,2
05100008	125	200	250	387	250	210 x 8 x 19	46,0
05100009	150	225	320	437	285	240 x 8 x 23	62,0
05100010	200	275	360	532	340	295 x 12 x 23	106,0
05100011	250	325	360	651	405	355 x 12 x 28	
05100012	300	375	500	830	460	410 x 12 x 28	

## Globe valves



### Globe valves cast iron

Type : 216A

Flange connection PN16, shut off angle form

Suitable for: Cold and hot water, steam, air, neutral fluids.

- \* High tightness
- \* Compact construction
- \* No maintenance

### Specifications

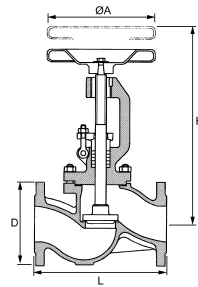
<b>Type</b>	: 216A
<b>Material</b>	: Cast iron EN-GJL-250
Bonnet	: EN-GJL-250
Seat	: 1.4006
Disc	: 1.4021
Stem	: 1.4021
Packing	: Graphite
Flanges	: PN16 acc. to EN 1092-2
Temperature	: max. 300°C

### 216A shut off angle form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100169	15	90	100	168	95	65 x 4 x 14	3,1
05100170	20	95	100	166	105	75 x 4 x 14	3,5
05100171	25	100	120	180	115	85 x 4 x 14	4,8
05100172	32	105	120	188	140	100 x 4 x 19	6,6
05100173	40	115	160	234	150	110 x 4 x 19	8,7
05100174	50	125	160	236	165	125 x 4 x 19	11,8
05100175	65	145	180	271	185	145 x 4 x 19	14,0
05100176	80	155	200	291	200	160 x 8 x 19	20,5
05100177	100	175	250	332	220	180 x 8 x 19	32,2
05100178	125	200	250	387	250	210 x 8 x 19	46,0
05100179	150	225	320	437	285	240 x 8 x 23	62,0
05100180	200	275	360	532	340	295 x 12 x 23	106,0
05100181	250	325	360	651	405	355 x 12 x 28	
05100182	300	375	500	830	460	410 x 12 x 28	

## Globe valves

<b>Globe valves cast iron</b>		<b>Type : 215 SDNR</b>
<b>Flange connection PN16, SDNR straight form</b>		
<b>Suitable for:</b> Cold and hot water, steam, air, neutral fluids.		
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* compact construction</li> <li>* No maintenance</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>215 SDNR</b>	
<b>Material</b>	: <b>Cast iron EN-GJL-250</b>	
<b>Bonnet</b>	: EN-GJL-250	
<b>Seat</b>	: CuSn10-B	
<b>Disc</b>	: CuSn-10-B	
<b>Stem</b>	: CuSn-10-B	
<b>Packing</b>	: Graphite	
<b>Flanges</b>	: PN16 acc. to EN 1092-2	
<b>Temperature</b>	: max. 225°C	

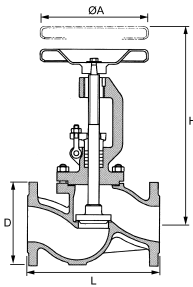


### 215 screw down non return straight form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100013	15	130	100	172	95	65 x 4 x 14	3,3
05100014	20	150	100	172	105	75 x 4 x 14	3,9
05108209	25	160	120	183	115	85 x 4 x 14	5,0
05100015	32	180	120	195	140	100 x 4 x 19	6,6
05108210	40	200	160	247	150	110 x 4 x 19	8,4
05108211	50	230	160	261	165	125 x 4 x 19	12,0
05108212	65	290	180	276	185	145 x 4 x 19	17,3
05108213	80	310	200	311	200	160 x 8 x 19	22,7
05108214	100	350	250	363	220	180 x 8 x 19	35,8
05100016	125	400	250	416	250	210 x 8 x 19	52,8
05100017	150	480	320	467	285	240 x 8 x 23	74,2
05100018	200	600	360	579	340	295 x 12 x 23	126
05100019	250	730	360	700	405	355 x 12 x 28	200
05108216	300	850	500	810	460	410 x 12 x 28	315



## Globe valves



### Globe valves cast iron

Type : 215A SDNR

Flange connection PN16, SDNR straight form

Suitable for: Cold and hot water, steam, air, neutral fluids.

- \* High tightness
- \* compact construction
- \* No maintenance

### Specifications

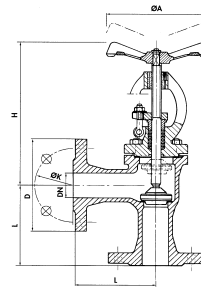
<b>Type</b>	: 215A SDNR
<b>Material</b>	: Cast iron EN-GJL-250
Bonnet	: EN-GJL-250
Seat	: 1.4006
Disc	: 1.4021
Stem	: 1.4021
Packing	: Graphite
Flanges	: PN16 acc. to EN 1092-2
Temperature	: max. 300°C

## 215A screw down non return straight form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100141	15	130	100	172	95	65 x 4 x 14	3,3
05100142	20	150	100	172	105	75 x 4 x 14	3,9
05100143	25	160	120	183	115	85 x 4 x 14	5,0
05100144	32	180	120	195	140	100 x 4 x 19	6,6
05100145	40	200	160	247	150	110 x 4 x 19	8,4
05100146	50	230	160	261	165	125 x 4 x 19	12,0
05100147	65	290	180	276	185	145 x 4 x 19	17,3
05100148	80	310	200	311	200	160 x 8 x 19	22,7
05100149	100	350	250	363	220	180 x 8 x 19	35,8
05100150	125	400	250	416	250	210 x 8 x 19	52,8
05100151	150	480	320	467	285	240 x 8 x 23	74,2
05100152	200	600	360	579	340	295 x 12 x 23	126
05100153	250	730	360	700	405	355 x 12 x 28	200
05100154	300	850	500	810	460	410 x 12 x 28	315

## Globe valves

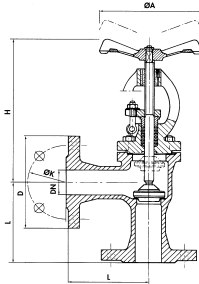
<b>Globe valves cast iron</b>		<b>Type : 216 SDNR</b>
<b>Flange connection PN16, SDNR angle form</b>		
<b>Suitable for:</b> Cold and hot water, steam, air, neutral fluids.		
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* Compact construction</li> <li>* No maintenance</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>216 SDNR</b>	
<b>Material</b>	: <b>Cast iron EN-GJL-250</b>	
<b>Bonnet</b>	: EN-GJL-250	
<b>Seat</b>	: CuSn10-B	
<b>Disc</b>	: CuSn-10-B	
<b>Stem</b>	: CuSn-10-B	
<b>Packing</b>	: Graphite	
<b>Flanges</b>	: PN16 acc. to EN 1092-2	
<b>Temperature</b>	: max. 225°C	



### 216 SDNR angle form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100030	15	90	100	168	95	65 x 4 x 14	3,1
05100031	20	95	100	166	105	75 x 4 x 14	3,5
05100032	25	100	120	180	115	85 x 4 x 14	4,8
05100033	32	105	120	188	140	100 x 4 x 19	6,6
05100034	40	115	160	234	150	110 x 4 x 19	8,7
05100035	50	125	160	236	165	125 x 4 x 19	11,8
05100036	65	145	180	271	185	145 x 4 x 19	14,0
05100037	80	155	200	291	200	160 x 8 x 19	20,5
05100038	100	175	250	332	220	180 x 8 x 19	32,2
05100039	125	200	250	387	250	210 x 8 x 19	46,0
05100040	150	225	320	437	285	240 x 8 x 23	62,0
05100041	200	275	360	532	340	295 x 12 x 23	106,0
05100042	250	325	360	651	405	355 x 12 x 28	
05100043	300	375	500	830	460	410 x 12 x 28	

## Globe valves



### Globe valves cast iron

Type : 216A SDNR

Flange connection PN16, SDNR angle form

Suitable for: Cold and hot water, steam, air, neutral fluids.

- \* High tightness
- \* Compact construction
- \* No maintenance

### Specifications

<b>Type</b>	: 216A SDNR
<b>Material</b>	: Cast iron EN-GJL-250
Bonnet	: EN-GJL-250
Seat	: 1.4006
Disc	: 1.4021
Stem	: 1.4021
Packing	: Graphite
Flanges	: PN16 acc. to EN 1092-2
Temperature	: max. 300°C

### 216A SDNR angle form

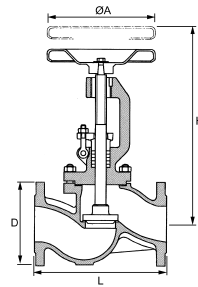
Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100155	15	90	100	168	95	65 x 4 x 14	3,1
05100156	20	95	100	166	105	75 x 4 x 14	3,5
05100157	25	100	120	180	115	85 x 4 x 14	4,8
05100158	32	105	120	188	140	100 x 4 x 19	6,6
05100159	40	115	160	234	150	110 x 4 x 19	8,7
05100160	50	125	160	236	165	125 x 4 x 19	11,8
05100161	65	145	180	271	185	145 x 4 x 19	14,0
05100162	80	155	200	291	200	160 x 8 x 19	20,5
05100163	100	175	250	332	220	180 x 8 x 19	32,2
05100164	125	200	250	387	250	210 x 8 x 19	46,0
05100165	150	225	320	437	285	240 x 8 x 23	62,0
05100166	200	275	360	532	340	295 x 12 x 23	106,0
05100167	250	325	360	651	405	355 x 12 x 28	
05100168	300	375	500	830	460	410 x 12 x 28	

# **Globe & SDNR Valves**

## **Ductile Iron**

## Globe valves

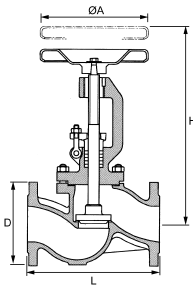
<b>Globe valves Nodular cast iron</b>		<b>Type : 215C</b>
<b>Flange connection PN16, shut off straight form</b>		
<b>Suitable for:</b> Cold and hot water, steam, air, neutral fluids.		
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* compact construction</li> <li>* No maintenance</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>215C</b>	
<b>Material</b>	: <b>Nodular cast iron EN-GJS-400-18-LT</b>	
<b>Bonnet</b>	: EN-GJS-400-18-LT	
<b>Seat</b>	: 1.4006	
<b>Disc</b>	: 1.4021	
<b>Stem</b>	: 1.4021	
<b>Packing</b>	: Graphite	
<b>Flanges</b>	: PN16 acc. to EN 1092-2	
<b>Temperature</b>	: max. 350°C	



### 215C shut off straight form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100183	15	130	100	172	95	65 x 4 x 14	3,3
05100184	20	150	100	173	105	75 x 4 x 14	3,9
05100185	25	160	120	182	115	85 x 4 x 14	5,0
05100186	32	180	120	200	140	100 x 4 x 19	6,6
05100187	40	200	160	255	150	110 x 4 x 19	8,4
05100188	50	230	160	273	165	125 x 4 x 19	12,0
05100189	65	290	180	295	185	145 x 4 x 19	17,3
05100190	80	310	200	332	200	160 x 8 x 19	22,7
05100191	100	350	250	369	220	180 x 8 x 19	35,8
05100192	125	400	250	432	250	210 x 8 x 19	52,8
05100193	150	480	320	483	285	240 x 8 x 23	74,2
05100194	200	600	360	579	340	295 x 12 x 23	126,0
05100195	250	730	360	758	405	355 x 12 x 28	200,0
05100196	300	850	500	830	460	410 x 12 x 28	315,0

## Globe valves



### Globe valves Nodular cast iron

Type : 215C

Flange connection PN16, shut off straight form

Suitable for: Cold and hot water, steam, air, neutral fluids.

- \* High tightness
- \* compact construction
- \* No maintenance

### Specifications

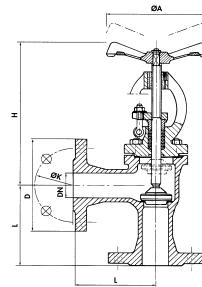
<b>Type</b>	: 215C
<b>Material</b>	: Nodular cast iron EN-GJS-400-18-LT
<b>Bonnet</b>	: EN-GJS-400-18-LT
<b>Seat</b>	: CuSn10B
<b>Disc</b>	: CuSn10B
<b>Stem</b>	: CuZn40Mn2
<b>Packing</b>	: Graphite
<b>Flanges</b>	: PN16 acc. to EN 1092-2
<b>Temperature</b>	: max. 225°C

### 215C shut off straight form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100281	15	130	100	172	95	65 x 4 x 14	3,3
05100282	20	150	100	173	105	75 x 4 x 14	3,9
05100283	25	160	120	182	115	85 x 4 x 14	5,0
05100284	32	180	120	200	140	100 x 4 x 19	6,6
05100285	40	200	160	255	150	110 x 4 x 19	8,4
05100286	50	230	160	273	165	125 x 4 x 19	12,0
05100287	65	290	180	295	185	145 x 4 x 19	17,3
05100288	80	310	200	332	200	160 x 8 x 19	22,7
05100289	100	350	250	369	220	180 x 8 x 19	35,8
05100290	125	400	250	432	250	210 x 8 x 19	52,8
05100291	150	480	320	483	285	240 x 8 x 23	74,2
05100292	200	600	360	579	340	295 x 12 x 23	126,0
05100293	250	730	360	758	405	355 x 12 x 28	200,0
05100294	300	850	500	830	460	410 x 12 x 28	315,0

## Globe valves

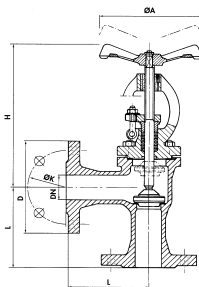
<b>Globe valves Nodular cast iron</b>	<b>Type : 216C</b>
<b>Flange connection PN16, shut off angle form</b>	
<b>Suitable for:</b> Cold and hot water, steam, air, neutral fluids.	
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* Compact construction</li> <li>* No maintenance</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>216C</b>
<b>Material</b>	: <b>Nodular cast iron EN-GJS-400-18-LT</b>
<b>Bonnet</b>	: EN-GJS-400-18-LT
<b>Seat</b>	: 1.4006
<b>Disc</b>	: 1.4021
<b>Stem</b>	: 1,4021
<b>Packing</b>	: Graphite
<b>Flanges</b>	: PN16 acc. to EN 1092-2
<b>Temperature</b>	: max. 350°C



### 216C shut off angle form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100211	15	90	100	168	95	65 x 4 x 14	3,1
05100212	20	95	100	166	105	75 x 4 x 14	3,5
05100213	25	100	120	180	115	85 x 4 x 14	4,8
05100214	32	105	120	188	140	100 x 4 x 19	6,6
05100215	40	115	160	234	150	110 x 4 x 19	8,7
05100216	50	125	160	236	165	125 x 4 x 19	11,8
05100217	65	145	180	271	185	145 x 4 x 19	14,0
05100218	80	155	200	291	200	160 x 8 x 19	20,5
05100219	100	175	250	332	220	180 x 8 x 19	32,2
05100220	125	200	250	387	250	210 x 8 x 19	46,0
05100221	150	225	320	437	285	240 x 8 x 23	62,0
05100222	200	275	360	532	340	295 x 12 x 23	106,0
05100223	250	325	360	651	405	355 x 12 x 28	
05100224	300	375	500	830	460	410 x 12 x 28	

## Globe valves



### Globe valves Nodular cast iron Type : 216C

**Flange connection PN16, shut off angle form**

**Suitable for:** Cold and hot water, steam, air, neutral fluids.

- \* High tightness
- \* Compact construction
- \* No maintenance

#### Specifications

<b>Type</b>	: 216C
<b>Material</b>	: Nodular cast iron EN-GJS-400-18-LT
<b>Bonnet</b>	: EN-GJS-400-18-LT
<b>Seat</b>	: CuSn10B
<b>Disc</b>	: CuSn10B
<b>Stem</b>	: CuZn40Mn2
<b>Packing</b>	: Graphite
<b>Flanges</b>	: PN16 acc. to EN 1092-2
<b>Temperature</b>	: max. 225°C

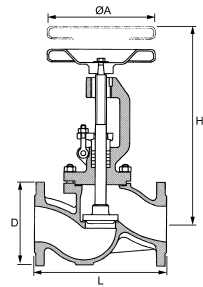
### 216C shut off angle form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100239	15	90	100	168	95	65 x 4 x 14	3,1
05100240	20	95	100	166	105	75 x 4 x 14	3,5
05100241	25	100	120	180	115	85 x 4 x 14	4,8
05100242	32	105	120	188	140	100 x 4 x 19	6,6
05100243	40	115	160	234	150	110 x 4 x 19	8,7
05100244	50	125	160	236	165	125 x 4 x 19	11,8
05100245	65	145	180	271	185	145 x 4 x 19	14,0
05100246	80	155	200	291	200	160 x 8 x 19	20,5
05100247	100	175	250	332	220	180 x 8 x 19	32,2
05100248	125	200	250	387	250	210 x 8 x 19	46,0
05100249	150	225	320	437	285	240 x 8 x 23	62,0
05100250	200	275	360	532	340	295 x 12 x 23	106,0
05100251	250	325	360	651	405	355 x 12 x 28	
05100252	300	375	500	830	460	410 x 12 x 28	



## Globe valves

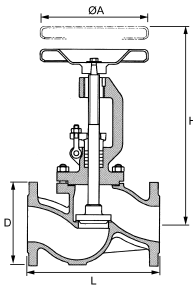
<b>Globe valves Nodular cast iron</b>		<b>Type : 215C SDNR</b>
<b>Flange connection PN16, SDNR straight form</b>		
<b>Suitable for:</b> Cold and hot water, steam, air, neutral fluids.		
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* compact construction</li> <li>* No maintenance</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>215C SDNR</b>	
<b>Material</b>	: <b>Nodular cast iron EN-GJS-400-18-LT</b>	
<b>Bonnet</b>	: EN-GJS-400-18-LT	
<b>Seat</b>	: 1.4006	
<b>Disc</b>	: 1.4021	
<b>Stem</b>	: 1.4021	
<b>Packing</b>	: Graphite	
<b>Flanges</b>	: PN16 acc. to EN 1092-2	
<b>Temperature</b>	: max. 350°C	



### 215C screw down non return straight form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100197	15	130	100	172	95	65 x 4 x 14	3,3
05100198	20	150	100	172	105	75 x 4 x 14	3,9
05100199	25	160	120	183	115	85 x 4 x 14	5,0
05100200	32	180	120	195	140	100 x 4 x 19	6,6
05100201	40	200	160	247	150	110 x 4 x 19	8,4
05100202	50	230	160	261	165	125 x 4 x 19	12,0
05100203	65	290	180	276	185	145 x 4 x 19	17,3
05100204	80	310	200	311	200	160 x 8 x 19	22,7
05100205	100	350	250	363	220	180 x 8 x 19	35,8
05100206	125	400	250	416	250	210 x 8 x 19	52,8
05100207	150	480	320	467	285	240 x 8 x 23	74,2
05100208	200	600	360	579	340	295 x 12 x 23	126
05100209	250	730	360	700	405	355 x 12 x 28	200
05100210	300	850	500	810	460	410 x 12 x 28	315

## Globe valves



### Globe valves Nodular cast iron

Type : 215C SDNR

Flange connection PN16, SDNR straight form

Suitable for: Cold and hot water, steam, air, neutral fluids.

- \* High tightness
- \* compact construction
- \* No maintenance

### Specifications

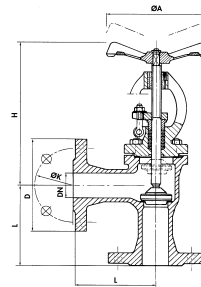
<b>Type</b>	: 215C SDNR
<b>Material</b>	: Nodular cast iron EN-GJS-400-18-LT
<b>Bonnet</b>	: EN-GJS-400-18-LT
<b>Seat</b>	: CuSn10B
<b>Disc</b>	: CuSn10B
<b>Stem</b>	: CuZn40Mn2
<b>Packing</b>	: Graphite
<b>Flanges</b>	: PN16 acc. to EN 1092-2
<b>Temperature</b>	: max. 225°C

## 215C screw down non return straight form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100267	15	130	100	172	95	65 x 4 x 14	3,3
05100268	20	150	100	172	105	75 x 4 x 14	3,9
05100269	25	160	120	183	115	85 x 4 x 14	5,0
05100270	32	180	120	195	140	100 x 4 x 19	6,6
05100271	40	200	160	247	150	110 x 4 x 19	8,4
05100272	50	230	160	261	165	125 x 4 x 19	12,0
05100273	65	290	180	276	185	145 x 4 x 19	17,3
05100274	80	310	200	311	200	160 x 8 x 19	22,7
05100275	100	350	250	363	220	180 x 8 x 19	35,8
05100276	125	400	250	416	250	210 x 8 x 19	52,8
05100277	150	480	320	467	285	240 x 8 x 23	74,2
05100278	200	600	360	579	340	295 x 12 x 23	126
05100279	250	730	360	700	405	355 x 12 x 28	200
05100280	300	850	500	810	460	410 x 12 x 28	315

## Globe valves

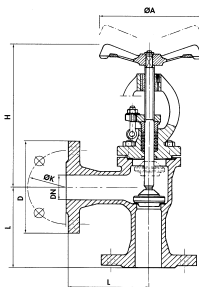
<b>Globe valves Nodular cast iron</b>		<b>Type : 216C SDNR</b>
<b>Flange connection PN16, SDNR angle form</b>		
<b>Suitable for:</b> Cold and hot water, steam, air, neutral fluids.		
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* Compact construction</li> <li>* No maintenance</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>216C SDNR</b>	
<b>Material</b>	: <b>Nodular cast iron EN-GJ-400-18-LT</b>	
<b>Bonnet</b>	: EN-GJS-400-18-LT	
<b>Seat</b>	: 1.4006	
<b>Disc</b>	: 1.4021	
<b>Stem</b>	: 1,4021	
<b>Packing</b>	: Graphite	
<b>Flanges</b>	: PN16 acc. to EN 1092-2	
<b>Temperature</b>	: max. 350°C	



### 216C SDNR angle form

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100225	15	90	100	168	95	65 x 4 x 14	3,1
05100226	20	95	100	166	105	75 x 4 x 14	3,5
05100227	25	100	120	180	115	85 x 4 x 14	4,8
05100228	32	105	120	188	140	100 x 4 x 19	6,6
05100229	40	115	160	234	150	110 x 4 x 19	8,7
05100230	50	125	160	236	165	125 x 4 x 19	11,8
05100231	65	145	180	271	185	145 x 4 x 19	14,0
05100232	80	155	200	291	200	160 x 8 x 19	20,5
05100233	100	175	250	332	220	180 x 8 x 19	32,2
05100234	125	200	250	387	250	210 x 8 x 19	46,0
05100235	150	225	320	437	285	240 x 8 x 23	62,0
05100236	200	275	360	532	340	295 x 12 x 23	106,0
05100237	250	325	360	651	405	355 x 12 x 28	
05100238	300	375	500	830	460	410 x 12 x 28	

## Globe valves



### Globe valves Nodular cast iron Type : 216C SDNR

Flange connection PN16, SDNR angle form

Suitable for: Cold and hot water, steam, air, neutral fluids.

- \* High tightness
- \* Compact construction
- \* No maintenance

#### Specifications

<b>Type</b>	: 216C SDNR
<b>Material</b>	: Nodular cast iron EN-GJ-400-18-LT
<b>Bonnet</b>	: EN-GJS-400-18-LT
<b>Seat</b>	: CuSn10B
<b>Disc</b>	: CuSn10B
<b>Stem</b>	: CuZn40Mn2
<b>Packing</b>	: Graphite
<b>Flanges</b>	: PN16 acc. to EN 1092-2
<b>Temperature</b>	: max. 350°C

### 216C SDNR angle form

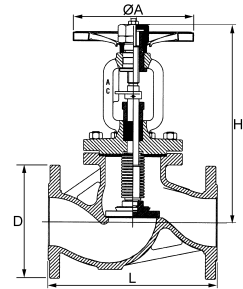
Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05100253	15	90	100	168	95	65 x 4 x 14	3,1
05100254	20	95	100	166	105	75 x 4 x 14	3,5
05100255	25	100	120	180	115	85 x 4 x 14	4,8
05100256	32	105	120	188	140	100 x 4 x 19	6,6
05100257	40	115	160	234	150	110 x 4 x 19	8,7
05100258	50	125	160	236	165	125 x 4 x 19	11,8
05100259	65	145	180	271	185	145 x 4 x 19	14,0
05100260	80	155	200	291	200	160 x 8 x 19	20,5
05100261	100	175	250	332	220	180 x 8 x 19	32,2
05100262	125	200	250	387	250	210 x 8 x 19	46,0
05100263	150	225	320	437	285	240 x 8 x 23	62,0
05100264	200	275	360	532	340	295 x 12 x 23	106,0
05100265	250	325	360	651	405	355 x 12 x 28	
05100266	300	375	500	830	460	410 x 12 x 28	

# **Bellow sealed Globe Valves**

## **Cast & Ductile Iron**

## Globe valves

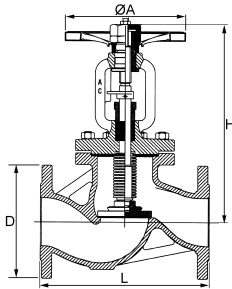
<b>Globe valves with bellows, cast iron</b>	<b>Type : 234A</b>
<b>Flange connection PN16, shut off straight form</b>	
<b>Suitable for:</b> Cold and hot water, steam, air, neutral fluids.	
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* Compact construction</li> <li>* No maintenance</li> <li>* Non-turning stem</li> <li>* Stroke indicator</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>234A</b>
<b>Material</b>	: <b>Cast iron GG25</b>
<b>Bonnet</b>	: GG25
<b>Seat</b>	: 1.4006
<b>Disc</b>	: 1.4571
<b>Stem</b>	: 1.4021
<b>Packing</b>	: Graphite
<b>Bellow</b>	: 1.4571
<b>Flanges</b>	: PN16 acc. to EN 1092-2
<b>Temperature</b>	: max. 300°C



### 234A shut off straight form

Article no.	DN	L	ØA	H (Open)	D	PCD	Weight
05100115	15	130	125	180	95	65 x 4 x 14	3,8
05100116	20	150	125	180	105	75 x 4 x 14	4,5
05100117	25	160	125	192	115	85 x 4 x 14	5,3
05100118	32	180	125	203	140	100 x 4 x 19	7,0
05100119	40	200	150	245	150	110 x 4 x 19	9,7
05100120	50	230	150	248	165	125 x 4 x 19	13,3
05100121	65	290	175	286	185	145 x 4 x 19	18,5
05100122	80	310	200	330	200	160 x 8 x 19	24,5
05100123	100	350	225	395	220	180 x 8 x 19	37,5
05100124	125	400	250	452	250	210 x 8 x 19	54
05100125	150	480	400	545	285	240 x 8 x 23	78
05100126	200	600	400	546	340	295 x 12 x 23	130,5
05100127	250	730	400	732	405	355 x 12 x 28	130,5

## Globe valves



### Globe valves with bellows, Nodular cast iron Type : 234C

Flange connection PN16, shut off straight form

Suitable for: Cold and hot water, steam, air, neutral fluids.

- \* High tightness
- \* Compact construction
- \* No maintenance
- \* Non-turning stem
- \* Stroke indicator

#### Specifications

<b>Type</b>	: 234C
<b>Material</b>	: Nodular cast iron GGG40.3
Bonnet	: GGG40.3
Seat	: 1.4006
Disc	: 1.4571
Stem	: 1.4021
Packing	: Graphite
Bellow	: 1.4571
Flanges	: PN16 acc. to EN 1092-2
Temperature	: max. 350°C

### 234A shut off straight form

Article no.	DN	L	ØA	H (Open)	D	PCD	Weight
05300359	15	130	125	180	95	65 x 4 x 14	3,8
05300360	20	150	125	180	105	75 x 4 x 14	4,5
05300361	25	160	125	192	115	85 x 4 x 14	5,3
05300362	32	180	125	203	140	100 x 4 x 19	7,0
05300363	40	200	150	245	150	110 x 4 x 19	9,7
05300364	50	230	150	248	165	125 x 4 x 19	13,3
05300365	65	290	175	286	185	145 x 4 x 19	18,5
05300366	80	310	200	330	200	160 x 8 x 19	24,5
05300367	100	350	225	395	220	180 x 8 x 19	37,5
05300368	125	400	250	452	250	210 x 8 x 19	54
05300369	150	480	400	545	285	240 x 8 x 23	78
05300370	200	600	400	546	340	295 x 12 x 23	130,5

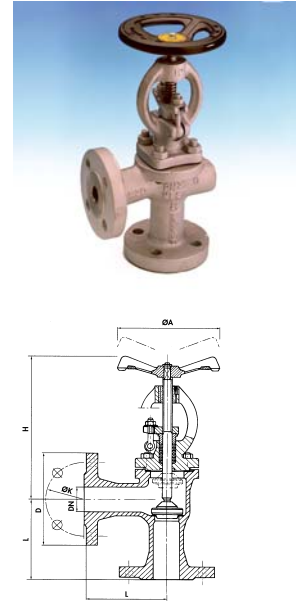
# **Globe & SDNR Valves**

## **Steel**



## Globe valves

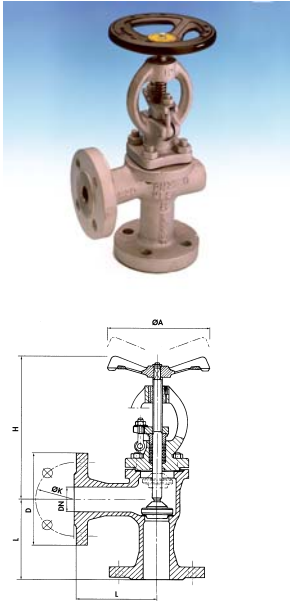
<b>Globe valves cast steel</b>		<b>Type : 222WM</b>
<b>Flange connection PN40, shut off angle form</b>		
Suitable for: Fresh water, oils, non aggressive fluids, gases and steam.		
*		
<b>Specifications</b>		
Type	:	222WM
Material	:	Cast steel 1.0619
Bonnet	:	DN15-50, 1.0460/1.0619
	:	DN65-250, 1.0619
Seat	:	DN15-25, 17Cr
	:	DN32-200, 18-8-CrNi
Disc	:	DN15-50, 17Cr
	:	DN65-250, 18-8-CrNi
Packing	:	Graphite
Flanges	:	Raised face "Z" acc. to EN 1092-1:2004
Marine standard	:	PN-W-74017:1998
Temperature	:	-10°C to 400°C



### 222WM shut off

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05308247	15	90	120	189	95	65 x 4 x 14	4,3
05308248	20	95	120	189	105	75 x 4 x 14	4,8
05308249	25	100	120	189	115	85 x 4 x 14	5,0
05308250	32	105	160	253	140	100 x 4 x 18	10,6
05308251	40	115	160	272	150	110 x 4 x 18	12,0
05308252	50	125	160	280	165	125 x 4 x 18	15,5
05308253	65	145	200	315	185	145 x 4 x 18	28,0
05308254	80	155	250	347	200	160 x 8 x 18	37,4
05308255	100	175	320	397	235	190 x 8 x 22	50,0
05308256	125	200	280	448	270	220 x 8 x 26	61,0
05308257	150	225	320	510	300	250 x 8 x 26	75,0
05308258	200	275	400	607	375	320 x 12 x 30	151,0
05300384	250	325	500		450	385 x 12 x 33	237,0

## Globe valves



**Globe valves cast steel**

**Type : 333WM SDNR**

**Flange connection PN40, SDNR angle form**

**Suitable for:** Fresh water, oils, non aggressive fluids, gases and steam.

\*

### Specifications

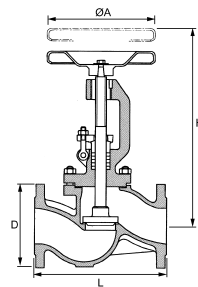
<b>Type</b>	: 333WM SDNR
<b>Material</b>	: Cast steel 1.0619
<b>Bonnet</b>	: DN15-50, 1.0460/1.0619
	: DN65-250, 1.0619
<b>Seat</b>	: DN15-25, 17Cr
	: DN32-200, 18-8-CrNi
<b>Disc</b>	: DN15-50, 17Cr
	: DN65-250, 18-8-CrNi
<b>Packing</b>	: Graphite
<b>Flanges</b>	: Raised face "Z" acc. to EN 1092-1:2004
<b>Marine standard</b>	: PN-W-74017:1998
<b>Temperature</b>	: -10°C to 400°C

## 333WM screw down non return

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05300398	15	90	120	182	95	65 x 4 x 14	4,1
05300399	20	95	120	182	105	75 x 4 x 14	4,7
05300400	25	100	120	182	115	85 x 4 x 14	4,9
05300401	32	105	160	250	140	100 x 4 x 18	10,6
05308259	40	115	160	262	150	110 x 4 x 18	13,6
05300402	50	125	160	281	165	125 x 4 x 18	16,0
05300403	65	145	200	306	185	145 x 4 x 18	28,0
05300404	80	155	250	340	200	160 x 8 x 18	37,0
05300405	100	175	320	375	235	190 x 8 x 22	48,0
05300406	125	200	320	430	270	220 x 8 x 26	59,2
05300407	150	225	320	485	300	250 x 8 x 26	75,5
05300408	200	275	400	575	375	320 x 12 x 30	152,5
05300409	250		500		450	385 x 12 x 33	

## Globe valves

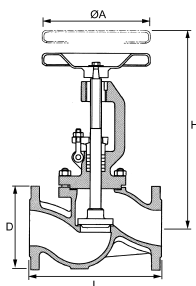
<b>Globe valves cast steel</b>		<b>Type : 218WM</b>
<b>Flange connection PN40, shut off straight form</b>		
Suitable for: Fresh water, oils, non aggressive fluids, gases and steam.		
*		
<b>Specifications</b>		
Type	:	<b>218WM</b>
Material	:	<b>Cast steel 1.0619</b>
Bonnet	:	DN15-50, 1.0460/1.0619
	:	DN65-250, 1.0619
Seat	:	DN15-25, 17Cr
	:	DN32-200, 18-8-CrNi
Disc	:	DN15-50, 17Cr
	:	DN65-250, 18-8-CrNi
Packing	:	Graphite
Flanges	:	Raised face "Z" acc. to EN 1092-1:2004
Marine standard	:	PN-W-74017:1998
Temperature	:	-10°C to 400°C



### 218WM shut off

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05300371	15	130	120	204	95	65 x 4 x 14	4,6
05300372	20	150	120	204	105	75 x 4 x 14	5,3
05300373	25	160	120	204	115	85 x 4 x 14	6,0
05300374	32	180	160	273	140	100 x 4 x 18	11,0
05300375	40	200	160	292	150	110 x 4 x 18	12,3
05300376	50	230	160	300	165	125 x 4 x 18	16,0
05300377	65	290	200	345	185	145 x 4 x 18	28,0
05300378	80	310	250	397	200	160 x 8 x 18	36,0
05300379	100	350	320	442	235	190 x 8 x 22	50,0
05300380	125	400	280	494	270	220 x 8 x 26	63,0
05300381	150	480	320	566	300	250 x 8 x 26	86,0
05300382	200	600	400	668	375	320 x 12 x 30	175,0
05300383	250	730	500	775	450	385 x 12 x 33	326,0

## Globe valves



**Globe valves cast steel** **Type : 468WM SDNR**

**Flange connection PN40, SDNR straight form**

**Suitable for:** Fresh water, oils, non aggressive fluids, gases and steam.

\*

### Specifications

**Type** : 468WM SDNR  
**Material** : Cast steel 1.0619  
**Bonnet** : DN15-50, 1.0460/1.0619  
**Seat** : DN65-250, 1.0619  
**Disc** : DN15-25, 17Cr  
**Disc** : DN32-200, 18-8-CrNi  
**Disc** : DN15-50, 17Cr  
**Disc** : DN65-250, 18-8-CrNi  
**Packing** : Graphite  
**Flanges** : Raised face "Z" acc. to EN 1092-1:2004  
**Marine standard** : PN-W-74017:1998  
**Temperature** : -10°C to 400°C

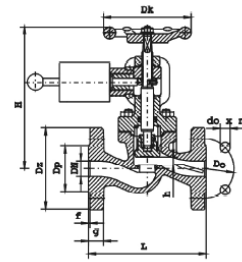
## 468WM screw down non return

Article no.	DN	L	ØA	H (open)	D	PCD	Weight
05300385	15	130	120	196	95	65 x 4 x 14	4,6
05300386	20	150	120	196	105	75 x 4 x 14	5,3
05300387	25	160	120	196	115	85 x 4 x 14	6,0
05300388	32	180	160	273	140	100 x 4 x 18	11,0
05300389	40	200	160	292	150	110 x 4 x 18	12,3
05300390	50	230	160	300	165	125 x 4 x 18	16,0
05300391	65	290	200	345	185	145 x 4 x 18	28,0
05300392	80	310	250	397	200	160 x 8 x 18	36,0
05300393	100	350	320	442	235	190 x 8 x 22	50,0
05300394	125	400	280	494	270	220 x 8 x 26	63,0
05300395	150	480	320	566	300	250 x 8 x 26	86,0
05300396	200	600	400	668	375	320 x 12 x 30	175,0
05300397	250	730	500	775	450	385 x 12 x 33	326,0

# Quick Acting Valves

## Globe valves

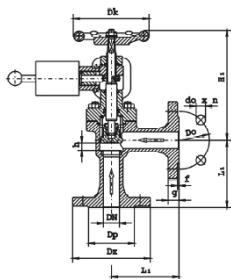
<b>Globe valves cast steel</b>		<b>Type : 231 KI</b>
<b>Flange connection PN16, quick closing, straight form</b>		
<b>Suitable for:</b> Diesel fuel up to 140°C		
*		
<b>Specifications</b>		
<b>Type</b>	: <b>231 KI</b>	
<b>Material</b>	: <b>Cast steel 1.0619</b>	
<b>Bonnet</b>	: DN15-50, 1.0460/1.0619	
	: DN65-150, 1.0619	
<b>Seat</b>	: 18-8-CrNi	
<b>Disc</b>	: DN15-100, 13Cr	
	: DN125-150, 18-8-CrNi	
<b>Stem</b>	: 17Cr	
<b>Bonnet sealing</b>	: Graphite	
<b>Packing</b>	: Viton gasket	
<b>Flanges</b>	: Raised face "Z" acc. to EN 1092-1:2004	
<b>Marine standard</b>	: PN-W-74017:1998	
<b>Temperature</b>	: max. 140°C	
When ordering please state classification demands.		



### 231 KI straight

Article no.	DN	L	ØDk	H (open)	Dz	Do x do x n	Weight
05300201	15	130	100	176	95	65 x 4 x 14	4,4
05300202	20	150	100	176	105	75 x 4 x 14	5,4
05308293	25	160	120	176	115	85 x 4 x 14	5,8
05300203	32	180	120	271	140	100 x 4 x 18	10,7
05308294	40	200	140	281	150	110 x 4 x 18	12,3
05308295	50	230	140	281	165	125 x 4 x 18	14,8
05308296	65	290	160	375	185	145 x 4 x 18	28,0
05308297	80	310	160	419	200	160 x 8 x 18	36,0
05308303	100	350	200	465	220	175 x 8 x 18	50,0
05308298	125	400	200	505	250	210 x 8 x 18	
05300204	150	480	250	563	285	240 x 8 x 22	99,0

## Globe valves



### Globe valves cast steel Type : 232 KI

Flange connection PN16, quick closing, angle form

Suitable for: Diesel fuel up to 140°C

\*

#### Specifications

<b>Type</b>	: 232 KI
<b>Material</b>	: Cast steel 1.0619
<b>Bonnet</b>	: DN15-50, 1.0460/1.0619
	: DN65-150, 1.0619
<b>Seat</b>	: 18-8-CrNi
<b>Disc</b>	: DN15-100, 13Cr
	: DN125-150, 18-8-CrNi
<b>Stem</b>	: 17Cr
<b>Bonnet sealing</b>	: Graphite
<b>Packing</b>	: Viton gasket
<b>Flanges</b>	: Raised face "Z" acc. to EN 1092-1:2004
<b>Marine standard</b>	: PN-W-74017:1998
<b>Temperature</b>	: max. 140°C

When ordering please state classification demands.

## 232 KI angle

Article no.	DN	L	ØDk	H (open)	Dz	Do x do x n	Weight
05300205	15	90	100	191	95	65 x 4 x 14	4,5
05300206	20	95	100	191	105	75 x 4 x 14	5,5
05308287	25	100	120	191	115	85 x 4 x 14	5,7
05300207	32	105	120	261	140	100 x 4 x 18	10,5
05308288	40	115	140	271	150	110 x 4 x 18	12,2
05300208	50	125	140	271	165	125 x 4 x 18	14,5
05308289	65	145	160	355	185	145 x 4 x 18	26,5
05308290	80	155	160	394	200	160 x 8 x 18	33,0
05308291	100	175	200	435	220	175 x 8 x 18	
05308292	125	200	200	470	250	210 x 8 x 18	58,0
05300209	150	225	250	518	285	240 x 8 x 22	78,0

## Ball valves, flanged

<b>Klinger Ballostar ball valve, quick closing Type : KHA-FL-VIII-FS</b>	
<b>Flange connection PN 40, reduced bore, with actuator</b>	
<b>Suitable for:</b> Quick close shut off valve for fuel oil systems	
<p>* Unique seat design where the seat ring is encapsulated on 3 sides by the stainless steel element.          * ISO 5211 top flange for easy mounting of actuator.</p>	
<b>Specifications</b>	
<b>Type</b>	: <b>KHA-FL-VIII-FS</b>
<b>Material</b>	: <b>Steel 1,0619</b>
<b>Pressure rating</b>	: PN 40
<b>Ball</b>	: Stainless steel 1.4401 or 1.4408
<b>Stem</b>	: Stainless steel 1.4104
<b>Seats</b>	: Fire safe version
<b>Stem packing</b>	: KFC/Stainless steel labyrinth
<b>Face to face</b>	: DIN 3202-F1
<b>Connection</b>	: Flange connection DIN 2545
<b>Actuation</b>	: Single acting actuator manually operated, type APE (see separate data sheet)
<b>Coupling</b>	: Stainless steel
<b>Hydraulic release cylinder:</b>	RG5

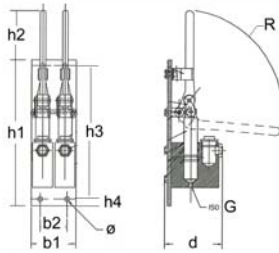


### Reduced bore

Article no.	DIMENSIONS (mm)			ACTUATOR	CONNECTIONS (mm)		OTHER
	DN	L	H	APE	Flange diam.	PCD	Weight (kg)
10330041	20 - 15	150		063	105	75 x 4 x 14	
10330042	25 - 20	160		075	115	85 x 4 x 14	
10330043	32 - 25	180		075	140	100 x 4 x 18	
10330044	40 - 32	200		085	150	110 x 4 x 18	
10330045	50 - 40	230		085	165	125 x 4 x 18	
10330046	65 - 50	170		100	188	145 x 8 x 18	



## Hydraulic release levers



<b>Hydraulic release levers</b>		<b>Type : GC</b>
<b>Hydraulic release levers, 1 to 3 units</b>		
<b>Suitable for:</b> Quick closing valves with hydraulic release		
* Can be supplied with cabinet see picture		
<b>Specifications</b>		
<b>Type</b>	:	<b>GC</b>
<b>Material</b>	:	<b>Steel</b>
<b>Design pressure</b>	:	<b>10 bar</b>
<b>Connection</b>	:	<b>BSP</b>

## Female threaded

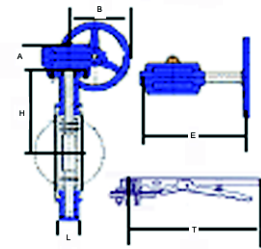
Article no.	No. of levers	Dimensions(mm) etc.					
		h1 / h2	h3 / h4	b1 / b2	d	R	Ø / G
05308370	1	325 / 109	312 / 15	--- / 60	130	230	11 / 1/8"
05300210	2	325 / 109	312 / 15	100 / 60	130	230	11 / 1/8"
05308371	3	300 / 134	220 / 20	160 / 200	130	230	12 / 1/8"

# Butterfly Valves

## Wafer

## Butterfly valves

<b>Butterfly valves</b>	<b>Type : 3530</b>
<b>Wafer w/locating holes for PN10/16, EPDM- seat, SS disc</b>	
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.	
<ul style="list-style-type: none"> <li>* Double O-ring seal on stem, guide bushes on stem to minimize wear.</li> <li>* Short face to face and low weight.</li> <li>* Exchangeable seat.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>3530</b>
<b>Material</b>	: <b>Cast iron ASTM A 126-B w/blue coating</b>
<b>Pressure rating</b>	: PN 10
<b>Disc</b>	: Stainless steel AISI 316 (16 bar DN 40 - DN 100)
<b>Stem</b>	: Stainless steel AISI 410
<b>Stem bush</b>	: Bronze top and bottom except DN 40 - DN 600 Delrin bush on top stem
<b>Lever</b>	: DN 40 - DN 300: FCD 45
<b>Gear operator</b>	: DN 200 - DN 900
<b>Seat</b>	: EPDM
<b>Face to face</b>	: DIN 3202-K1 / ISO 5752 tabel 5 short
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)
<b>Connection</b>	: Mounting between DIN flanges PN 10/16
<b>Temperature</b>	: EPDM: -10°C to +120°C



### With EPDM-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	Kv	Top flange	Weight (kg)
15353040	40	33	120	113	F07	2
15353050	50	43	143	193	F07	3,6
15353065	65	46	155	315	F07	3,8
15353080	80	46	162	425	F07	4,0
15353100	100	52	181	723	F07	5,3
15353125	125	56	197	1243	F07	7,3
15353150	150	56	210	1859	F07	8,2
15353200	200	60	243	3124	F10	13,5
15353250	250	68	286	4757	F10	21,8
15353300	300	78	309	7058	F10	32,5
15350351	350	78	329	8319	F12	48
15350352	400	102	393	11458	F12	60
15350353	450	114	393	13612	F14	80
15350354	500	127	427	18748	F14	125
15350355	600	154	492	25217	F16	200
15350376	700	165	563	36821	F16	395
15350377	750	190	585	39062	F25	490
15350378	800	190	630	45995	F25	580
15350379	900	203	660	61044	F25	730

## Butterfly valves

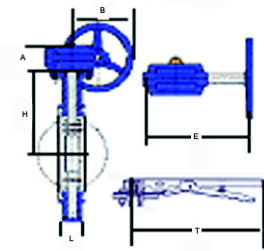
### Lever

Article no.	DIMENSIONS (mm)					OTHER
	DN	T	A	Stem square	ISO 5211	Weight (kg)
40106050	40-100	200	68	11 x 11	F07	0,7
40106100	125-150	250	68	14 x 14	F07	0,8
40106150	200	355	75	17 x 17	F10	1,6
40106200	250	355	75	19 x 19	F10	1,6
40106300	300	355	75	22 x 22	F10	1,6

- Also available:
- Complete with pneumatic or electrical actuator
  - with manual gear operator
  - lugged type, other seat materials (Viton, NBR) and disc materials (Al-Br, Ductile iron)

## Butterfly valves

Butterfly valves		Type : 3530
<b>Wafer w/locating holes for PN10/16, NBR- seat, SS disc</b>		
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.		
<ul style="list-style-type: none"> <li>* Double O-ring seal on stem, guide bushes on stem to minimize wear.</li> <li>* Short face to face and low weight.</li> <li>* Exchangeable seat.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: 3530	
<b>Material</b>	: Cast iron ASTM A 126-B w/blue coating	
<b>Pressure rating</b>	: PN 10	
<b>Disc</b>	: Stainless steel AISI 316 (16 bar DN 40 - DN 100)	
<b>Stem</b>	: Stainless steel AISI 410	
<b>Stem bush</b>	: Bronze top and bottom	
	: except DN 40 - DN 600 Delrin bush on top stem	
<b>Lever</b>	: DN 40 - DN 300: FCD 45	
<b>Gear operator</b>	: DN 200 - DN 900	
<b>Seat</b>	: NBR	
<b>Face to face</b>	: DIN 3202-K1 / ISO 5752 tabel 5 short	
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)	
<b>Connection</b>	: Mounting between DIN flanges PN 10/16	
<b>Temperature</b>	: NBR: -10°C to +80°C	



### With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)				OTHER	
	DN	L	H	Kv	Top flange	Weight (kg)
15351040	40	33	120	113	F07	2
15351050	50	43	143	193	F07	3,6
15351065	65	46	155	315	F07	3,8
15351080	80	46	162	425	F07	4,0
15351100	100	52	181	723	F07	5,3
15351125	125	56	197	1243	F07	7,3
15351150	150	56	210	1859	F07	8,2
15351200	200	60	243	3124	F10	13,5
15351250	250	68	286	4757	F10	21,8
15351300	300	78	309	7058	F10	32,5
15350356	350	78	329	8319	F12	48
15350357	400	102	393	11458	F12	60
15350358	450	114	393	13612	F14	80
15350359	500	127	427	18748	F14	125
15350360	600	154	492	25217	F16	200
15350380	700	165	563	36821	F16	395
15350381	750	190	585	39062	F25	490
15350382	800	190	630	45995	F25	580
15350383	900	203	660	61044	F25	730

## Butterfly valves

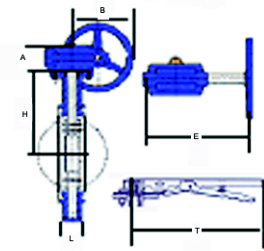
### Lever

Article no.	DIMENSIONS (mm)					OTHER
	DN	T	A	Stem square	ISO 5211	Weight (kg)
40106050	40-100	200	68	11 x 11	F07	0,7
40106100	125-150	250	68	14 x 14	F07	0,8
40106150	200	355	75	17 x 17	F10	1,6
40106200	250	355	75	19 x 19	F10	1,6
40106300	300	355	75	22 x 22	F10	1,6

- Also available:
- Complete with pneumatic or electrical actuator
  - with manual gear operator
  - lugged type, other seat materials (Viton, EPDM) and disc materials (Al-Br, Ductile iron)

## Butterfly valves

<b>Butterfly valves</b>	<b>Type : 3530</b>
<b>Wafer w/locating holes for PN10/16, NBR- seat, Alu-bronze disc</b>	
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.	
<ul style="list-style-type: none"> <li>* Double O-ring seal on stem, guide bushes on stem to minimize wear.</li> <li>* Short face to face and low weight.</li> <li>* Exchangeable seat.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>3530</b>
<b>Material</b>	: <b>Cast iron ASTM A 126-B w/blue coating</b>
<b>Pressure rating</b>	: PN 10
<b>Disc</b>	: Alu-bronze ALBC2
<b>Stem</b>	: Stainless steel AISI 410
<b>Stem bush</b>	: Bronze top and bottom
	: except DN 40 - DN 600 Delrin bush on top stem
<b>Lever</b>	: DN 40 - DN 300: FCD 45
<b>Gear operator</b>	: DN 200 - DN 900
<b>Seat</b>	: NBR
<b>Face to face</b>	: DIN 3202-K1 / ISO 5752 tabel 5 short
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)
<b>Connection</b>	: Mounting between DIN flanges PN 10/16
<b>Temperature</b>	: NBR: -10°C to +80°C



### With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)				OTHER	
	DN	L	H	Kv	Top flange	Weight (kg)
15350361	40	33	120	113	F07	2
15350362	50	43	143	193	F07	3,6
15350363	65	46	155	315	F07	3,8
15350364	80	46	162	425	F07	4,0
15350365	100	52	181	723	F07	5,3
15350366	125	56	197	1243	F07	7,3
15350367	150	56	210	1859	F07	8,2
15350368	200	60	243	3124	F10	13,5
15350369	250	68	286	4757	F10	21,8
15350370	300	78	309	7058	F10	32,5
15350371	350	78	329	8319	F12	48
15350372	400	102	393	11458	F12	60
15350373	450	114	393	13612	F14	80
15350374	500	127	427	18748	F14	125
15350375	600	154	492	25217	F16	200
15350384	700	165	563	36821	F16	395
15350385	750	190	585	39062	F25	490
15350386	800	190	630	45995	F25	580
15350387	900	203	660	61044	F25	730

## Butterfly valves

### Lever

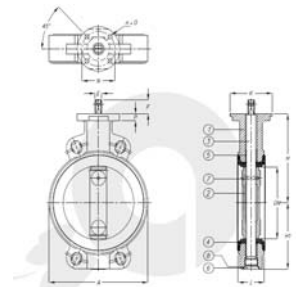
Article no.	DIMENSIONS (mm)					OTHER
	DN	T	A	Stem square	ISO 5211	Weight (kg)
40106050	40-100	200	68	11 x 11	F07	0,7
40106100	125-150	250	68	14 x 14	F07	0,8
40106150	200	355	75	17 x 17	F10	1,6
40106200	250	355	75	19 x 19	F10	1,6
40106300	300	355	75	22 x 22	F10	1,6

- Also available:
- Complete with pneumatic or electrical actuator
  - with manual gear operator
  - lugged type, other seat materials (Viton, EPDM) and disc materials (stainless steel, Ductile iron)



## Butterfly valves

<b>Butterfly valves</b>		<b>Type : Alfa 57</b>
<b>Wafer w/locating holes for PN10/16, NBR- seat, Alu-bronze disc</b>		
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.		
<ul style="list-style-type: none"> <li>* Short face to face and low weight.</li> <li>* Vulcanised lining bonded to body.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>Alfa 57</b>	
<b>Material</b>	: <b>GGG40 (D.I. JS 1030)</b>	
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)	
<b>Disc</b>	: AB 2	
<b>Stem</b>	: Stainless steel 1.4122	
<b>Bearing bushes</b>	: Bronze	
<b>Seat</b>	: NBR	
<b>Face to face</b>	: ISO 5752, table 5, short.	
	: DN 700 - DN 1000 EN 558-1, row 20	
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)	
<b>Connection</b>	: Mounting between DIN flanges PN 10/16	
<b>Coating</b>	: RAL 7036	
<b>Design</b>	: EN593	



### With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A	Top flange	Weight (kg)
15200002	50	43	118	90	11 F07 4xØ9	3,0
15200003	65	46	126	105	11 F07 4xØ9	3,5
15200004	80	46	133	124	11 F07 4xØ9	3,8
15200005	100	52	147	150	11 F07 4xØ9	5,3
15200006	125	56	160	182	14 F07 4xØ9	7,4
15200007	150	56	180	210	14 F07 4xØ9	9,5
15200008	200	60	204	265	17 F07 4xØ9	13,5
15200009	250	68	245	315	22 F10 4xØ11	20,2
15200011	300	78	270	371	22 F10 4xØ11	32,5
15200013	350	78	315	434	27 F12 4xØ14	43
15200015	400	102	350	488	27 F12 4xØ14	70
15200017	450	114	375	532	36 F14 4xØ18	98
15200019	500	127	415	585	36 F14 4xØ18	128
15200021	600	154	452	685	46 F16 4xØ22	203
15200023	700	165	555	805	Ø70 F16 4xØ22	
	700 (PN16)	165	555	805	Ø80 F25 8xØ18	
15200024	800	190	620	910	Ø80 F25 8xØ18	
	800 (PN16)	190	620	910	Ø100 F25 8xØ18	
15200025	900	203	675	1010	Ø90 F25 8xØ18	
	900 (PN16)	203	675	1010	Ø110 F25 8xØ18	
15200026	1000	216	740	1110	Ø90 F25 8xØ18	
	1000 (PN16)	216	740	1110	Ø120 F25 8xØ18	

## Butterfly valves

### Lever Series 2

Article no.	DIMENSIONS (mm)				
	DN	L	H	Stem square	ISO 5211
40106560	50-100	232	57,5	11 x 11	F07
40106561	125-150	329	69	14 x 14	F07
40106562	200	329	69	17 x 17	F07
40106563	250-300	400	80,5	22 x 22	F10

### Gearbox series Q

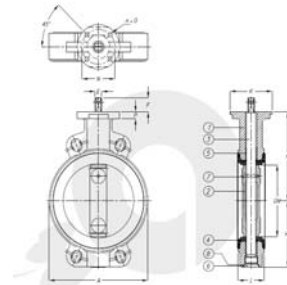
Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x 11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

- Complete with pneumatic or electrical actuator
- With gear operator

## Butterfly valves

<b>Butterfly valves</b>		<b>Type : Alfa 57</b>
<b>Wafer w/locating holes for PN10/16, NBR- seat, SS disc</b>		
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.		
<ul style="list-style-type: none"> <li>* Short face to face and low weight.</li> <li>* Vulcanised lining bonded to body.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>Alfa 57</b>	
<b>Material</b>	: <b>GGG40 (D.I. JS 1030)</b>	
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)	
<b>Disc</b>	: Stainless steel 1.4408	
<b>Stem</b>	: Stainless steel 1.4122	
<b>Bearing bushes</b>	: Bronze	
<b>Seat</b>	: NBR	
<b>Face to face</b>	: ISO 5752, table 5, short.	
	: DN 700 - DN 1000 EN 558-1, row 20	
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)	
<b>Connection</b>	: Mounting between DIN flanges PN 10/16	
<b>Coating</b>	: RAL 7036	
<b>Design</b>	: EN593	



### With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A	Top flange	Weight (kg)
15200028	50	43	118	90	11 F07 4xØ9	3,0
15200029	65	46	126	105	11 F07 4xØ9	3,5
15200030	80	46	133	124	11 F07 4xØ9	3,8
15200031	100	52	147	150	11 F07 4xØ9	5,3
15200032	125	56	160	182	14 F07 4xØ9	7,4
15200033	150	56	180	210	14 F07 4xØ9	9,5
15200034	200	60	204	265	17 F07 4xØ9	13,5
15200035	250	68	245	315	22 F10 4xØ11	20,2
15200037	300	78	270	371	22 F10 4xØ11	32,5
15200039	350	78	315	434	27 F12 4xØ14	43
15200041	400	102	350	488	27 F12 4xØ14	70
15200043	450	114	375	532	36 F14 4xØ18	98
15200045	500	127	415	585	36 F14 4xØ18	128
15200047	600	154	452	685	46 F16 4xØ22	203
15200049	700	165	555	805	Ø70 F16 4xØ22	
	700 (PN16)	165	555	805	Ø80 F25 8xØ18	
15200050	800	190	620	910	Ø80 F25 8xØ18	
	800 (PN16)	190	620	910	Ø100 F25 8xØ18	
15200051	900	203	675	1010	Ø90 F25 8xØ18	
	900 (PN16)	203	675	1010	Ø110 F25 8xØ18	
15200052	1000	216	740	1110	Ø90 F25 8xØ18	
	1000 (PN16)	216	740	1110	Ø120 F25 8xØ18	

## Butterfly valves

### Lever Series 2

Article no.	DIMENSIONS (mm)				
	DN	L	H	Stem square	ISO 5211
40106560	50-100	232	57,5	11 x 11	F07
40106561	125-150	329	69	14 x 14	F07
40106562	200	329	69	17 x 17	F07
40106563	250-300	400	80,5	22 x 22	F10

### Gearbox series Q

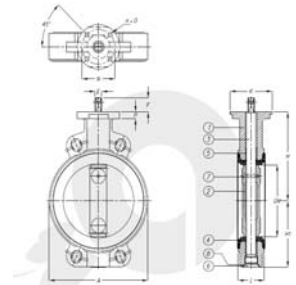
Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x 11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

- Complete with pneumatic or electrical actuator
- With gear operator

## Butterfly valves

<b>Butterfly valves</b>		<b>Type : Alfa 57</b>
<b>Wafer w/locating holes for PN10/16, EPDM- seat, SS disc</b>		
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.		
<ul style="list-style-type: none"> <li>* Short face to face and low weight.</li> <li>* Vulcanised lining bonded to body.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>Alfa 57</b>	
<b>Material</b>	: <b>GGG40 (D.I. JS 1030)</b>	
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)	
<b>Disc</b>	: Stainless steel 1.4408	
<b>Stem</b>	: Stainless steel 1.4122	
<b>Bearing bushes</b>	: Bronze	
<b>Seat</b>	: EPDM	
<b>Face to face</b>	: ISO 5752, table 5, short.	
	: DN 700 - DN 1000 EN 558-1, row 20	
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)	
<b>Connection</b>	: Mounting between DIN flanges PN 10/16	
<b>Coating</b>	: RAL 7036	
<b>Design</b>	: EN593	



### With EPDM-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A	Top flange	Weight (kg)
15200054	50	43	118	90	11 F07 4xØ9	3,0
15200055	65	46	126	105	11 F07 4xØ9	3,5
15200056	80	46	133	124	11 F07 4xØ9	3,8
15200057	100	52	147	150	11 F07 4xØ9	5,3
15200058	125	56	160	182	14 F07 4xØ9	7,4
15200059	150	56	180	210	14 F07 4xØ9	9,5
15200060	200	60	204	265	17 F07 4xØ9	13,5
15200061	250	68	245	315	22 F10 4xØ11	20,2
15200063	300	78	270	371	22 F10 4xØ11	32,5
15200065	350	78	315	434	27 F12 4xØ14	43
15200067	400	102	350	488	27 F12 4xØ14	70
15200069	450	114	375	532	36 F14 4xØ18	98
15200071	500	127	415	585	36 F14 4xØ18	128
15200073	600	154	452	685	46 F16 4xØ22	203
15200075	700	165	555	805	Ø70 F16 4xØ22	
	700 (PN16)	165	555	805	Ø80 F25 8xØ18	
15200076	800	190	620	910	Ø80 F25 8xØ18	
	800 (PN16)	190	620	910	Ø100 F25 8xØ18	
15200077	900	203	675	1010	Ø90 F25 8xØ18	
	900 (PN16)	203	675	1010	Ø110 F25 8xØ18	
15200078	1000	216	740	1110	Ø90 F25 8xØ18	
	1000 (PN16)	216	740	1110	Ø120 F25 8xØ18	

## Butterfly valves

### Lever Series 2

Article no.	DIMENSIONS (mm)				
	DN	L	H	Stem square	ISO 5211
40106560	50-100	232	57,5	11 x 11	F07
40106561	125-150	329	69	14 x 14	F07
40106562	200	329	69	17 x 17	F07
40106563	250-300	400	80,5	22 x 22	F10

### Gearbox series Q

Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x 11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

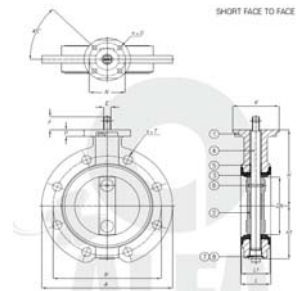
- Complete with pneumatic or electrical actuator
- With gear operator

# **Butterfly Valves**

## **Mono Flanged**

## Butterfly valves

<b>Butterfly valves</b>		<b>Type : Alfa 60</b>
<b>Monoflange for PN10/16, NBR- seat, Alu-bronze disc</b>		
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.		
<ul style="list-style-type: none"> <li>* Short face to face and low weight.</li> <li>* Vulcanised lining bonded to body.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>Alfa 60</b>	
<b>Material</b>	: <b>GGG40 (D.I. JS 1030)</b>	
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)	
<b>Disc</b>	: AB 2	
<b>Stem</b>	: Stainless steel 1.4122	
<b>Bearing bushes</b>	: Bronze	
<b>Seat</b>	: NBR	
<b>Face to face</b>	: ISO 5752, table 5, short.	
<b>Top flange</b>	: ISO 5211	
<b>Connection</b>	: Mounting between DIN flanges PN 10/16	
<b>Coating</b>	: RAL 7036	
<b>Design</b>	: EN593	



### With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200236	50	43	118	165 / 125	11 F07 4xØ9	3,0
15200237	65	46	126	185 / 145	11 F07 4xØ9	3,8
15200238	80	46	133	200 / 160	11 F07 4xØ9	4,2
15200239	100	52	147	228 / 180	11 F07 4xØ9	6,1
15200240	125	56	160	254 / 210	14 F07 4xØ9	8,3
15200241	150	56	180	285 / 240	14 F07 4xØ9	11,0
15200242	200	60	204	340 / 295	17 F07 4xØ9	15,2
	200 (PN 16)	60	204	340 / 295	17 F07 4xØ9	15,2
15200243	250	68	245	405 / 350	22 F10 4xØ11	26,1
15200244	250 (PN 16)	68	245	405 / 350	22 F10 4xØ11	26,1
15200245	300	78	270	460 / 400	22 F10 4xØ11	34,3
15200246	300 (PN 16)	78	270	460 / 400	22 F10 4xØ11	34,3
15200247	350	78	315	533 / 460	27 F12 4xØ14	47,5
15200248	350 (PN 16)	78	315	533 / 470	27 F12 4xØ14	47,5
15200249	400	102	350	585 / 515	27 F12 4xØ14	73,5
15200250	400 (PN 16)	102	350	585 / 525	27 F12 4xØ14	73,5

### Lever Series 2

Article no.	DIMENSIONS (mm)				
	DN	L	H	Stem square	ISO 5211
40106560	50-100	232	57,5	11 x 11	F07
40106561	125-150	329	69	14 x 14	F07
40106562	200	329	69	17 x 17	F07
40106563	250-300	400	80,5	22 x 22	F10



## Butterfly valves

### Gearbox series Q

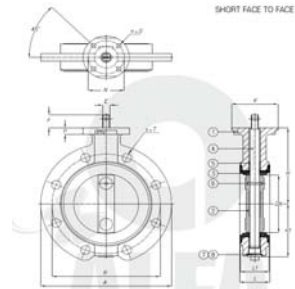
Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x 11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

- Complete with pneumatic or electrical actuator
- With gear operator

## Butterfly valves

<b>Butterfly valves</b>		<b>Type : Alfa 60</b>
<b>Monoflange for PN10/16, EPDM- seat, Alu-bronze disc</b>		
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.		
<ul style="list-style-type: none"> <li>* Short face to face and low weight.</li> <li>* Vulcanised lining bonded to body.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>Alfa 60</b>	
<b>Material</b>	: <b>GGG40 (D.I. JS 1030)</b>	
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)	
<b>Disc</b>	: AB 2	
<b>Stem</b>	: Stainless steel 1.4122	
<b>Bearing bushes</b>	: Bronze	
<b>Seat</b>	: EPDM	
<b>Face to face</b>	: ISO 5752, table 5, short.	
<b>Top flange</b>	: ISO 5211	
<b>Connection</b>	: Mounting between DIN flanges PN 10/16	
<b>Coating</b>	: RAL 7036	
<b>Design</b>	: EN593	



### With EPDM-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200262	50	43	118	165 / 125	11 F07 4xØ9	3,0
15200263	65	46	126	185 / 145	11 F07 4xØ9	3,8
15200264	80	46	133	200 / 160	11 F07 4xØ9	4,2
15200265	100	52	147	228 / 180	11 F07 4xØ9	6,1
15200266	125	56	160	254 / 210	14 F07 4xØ9	8,3
15200267	150	56	180	285 / 240	14 F07 4xØ9	11,0
15200268	200	60	204	340 / 295	17 F07 4xØ9	15,2
	200 (PN 16)	60	204	340 / 295	17 F07 4xØ9	15,2
15200269	250	68	245	405 / 350	22 F10 4xØ11	26,1
15200270	250 (PN 16)	68	245	405 / 350	22 F10 4xØ11	26,1
15200271	300	78	270	460 / 400	22 F10 4xØ11	34,3
15200272	300 (PN 16)	78	270	460 / 400	22 F10 4xØ11	34,3
15200273	350	78	315	533 / 460	27 F12 4xØ14	47,5
15200274	350 (PN 16)	78	315	533 / 470	27 F12 4xØ14	47,5
15200275	400	102	350	585 / 515	27 F12 4xØ14	73,5
15200276	400 (PN 16)	102	350	585 / 525	27 F12 4xØ14	73,5

### Lever Series 2

Article no.	DIMENSIONS (mm)				
	DN	L	H	Stem square	ISO 5211
40106560	50-100	232	57,5	11 x 11	F07
40106561	125-150	329	69	14 x 14	F07
40106562	200	329	69	17 x 17	F07
40106563	250-300	400	80,5	22 x 22	F10

## Butterfly valves

### Gearbox series Q

Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x 11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

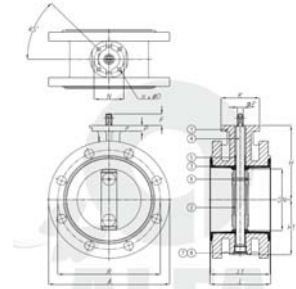
- Complete with pneumatic or electrical actuator
- With gear operator

# **Butterfly Valves**

## **Double Flanged**

## Butterfly valves

Butterfly valves		Type : Alfa 46
<b>Double flange for PN10/16, EPDM- seat, ALU-bronze disc</b>		
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.		
* Short face to face and low weight. * Vulcanised lining bonded to body. * Top flange acc. to ISO 5211 for for easy actuator mounting.		
<b>Specifications</b>		
<b>Type</b>	: Alfa 46	
<b>Material</b>	: GGG40 (D.I. JS 1030)	
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)	
<b>Disc</b>	: AB 2	
<b>Stem</b>	: Stainless steel 1.4122	
<b>Bearing bushes</b>	: Bronze	
<b>Seat</b>	: EPDM	
<b>Face to face</b>	: ISO 5752, table 5, short.	
	: DN 700 - DN 1000 EN 558-1, row 13	
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)	
<b>Connection</b>	: Mounting between DIN flanges PN 10/16	
<b>Coating</b>	: RAL 7036	
<b>Design</b>	: EN593	



### With EPDM-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200106	50	108	118	165 / 125	11 F07 4xØ9	7,0
15200107	65	112	126	185 / 145	11 F07 4xØ9	8,8
15200108	80	114	133	200 / 160	11 F07 4xØ9	10,0
15200109	100	127	147	228 / 180	11 F07 4xØ9	13,5
15200110	125	140	160	254 / 210	14 F07 4xØ9	17,2
15200111	150	140	180	285 / 240	14 F07 4xØ9	21,0
15200112	200	152	204	343 / 295	17 F07 4xØ9	31,6
	200 (PN 16)	152	204	343 / 295	17 F07 4xØ9	31,6
15200113	250	165	245	405 / 350	22 F10 4xØ11	46,5
15200114	250 (PN 16)	165	245	405 / 355	22 F10 4xØ11	46,5
15200115	300	178	270	445 / 400	22 F10 4xØ11	51,3
15200116	300 (PN 16)	178	270	445 / 410	22 F10 4xØ11	69,0
15200117	350	190	315	505 / 460	27 F12 4xØ14	80,0
15200118	350 (PN 16)	190	315	533 / 470	27 F12 4xØ14	95,0
15200119	400	216	350	565 / 515	27 F12 4xØ14	101,0
15200120	400 (PN 16)	216	350	597 / 525	27 F12 4xØ14	120,5
15200121	450	222	375	615 / 565	36 F14 4xØ18	123,2
15200122	450 (PN 16)	222	375	640 / 585	36 F14 4xØ18	150,0
15200123	500	239	415	670 / 620	36 F14 4xØ18	170,0
15200124	500 (PN 16)	239	415	715 / 650	36 F14 4xØ18	210,0
15200125	600	267	465	780 / 725	46 F16 4xØ22	231,0
15200126	600 (PN 16)	267	465	840 / 770	46 F16 4xØ22	291,0
15200127	700	292	555	895 / 840	Ø70 F16 4xØ22	
	700 (PN16)	292	555	910 / 840	Ø80 F25 8xØ18	

## Butterfly valves

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200128	800	318	620	1015 / 950	Ø80 F25 8xØ18	
	800 (PN16)	318	620	1025 / 950	Ø100 F25 8xØ18	
15200129	900	330	675	1115 / 1050	Ø90 F25 8xØ18	
	900 (PN16)	330	675	1112 / 1050	Ø110 F25 8xØ18	
15200130	1000	410	740	1230 / 1160	Ø90 F25 8xØ18	
	1000 (PN16)	410	740	1255 / 1170	Ø120 F25 8xØ18	

## Lever Series 2

Article no.	DIMENSIONS (mm)					
	DN	L	H	Stem square	ISO 5211	
40106560	50-100	232	57,5	11 x11	F07	
40106561	125-150	329	69	14 x 14	F07	
40106562	200	329	69	17 x 17	F07	
40106563	250-300	400	80,5	22 x 22	F10	

## Gearbox series Q

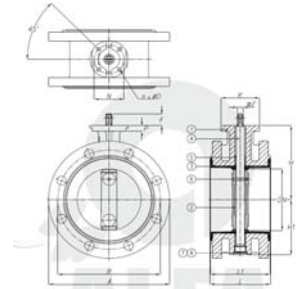
Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

- Complete with pneumatic or electrical actuator
- With gear operator

## Butterfly valves

<b>Butterfly valves</b>		<b>Type : Alfa 46</b>
<b>Double flange for PN10/16, NBR- seat, ALU-bronze disc</b>		
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.		
<ul style="list-style-type: none"> <li>* Short face to face and low weight.</li> <li>* Vulcanised lining bonded to body.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>Alfa 46</b>	
<b>Material</b>	: <b>GGG40 (D.I. JS 1030)</b>	
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)	
<b>Disc</b>	: AB 2	
<b>Stem</b>	: Stainless steel 1.4122	
<b>Bearing bushes</b>	: Bronze	
<b>Seat</b>	: NBR	
<b>Face to face</b>	: ISO 5752, table 5, short.	
	: DN 700 - DN 1000 EN 558-1, row 13	
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)	
<b>Connection</b>	: Mounting between DIN flanges PN 10/16	
<b>Coating</b>	: RAL 7036	
<b>Design</b>	: EN593	



### With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200080	50	108	118	165 / 125	11 F07 4xØ9	7,0
15200081	65	112	126	185 / 145	11 F07 4xØ9	8,8
15200082	80	114	133	200 / 160	11 F07 4xØ9	10,0
15200083	100	127	147	228 / 180	11 F07 4xØ9	13,5
15200084	125	140	160	254 / 210	14 F07 4xØ9	17,2
15200085	150	140	180	285 / 240	14 F07 4xØ9	21,0
15200086	200	152	204	343 / 295	17 F07 4xØ9	31,6
	200 (PN 16)	152	204	343 / 295	17 F07 4xØ9	31,6
15200087	250	165	245	405 / 350	22 F10 4xØ11	46,5
15200088	250 (PN 16)	165	245	405 / 355	22 F10 4xØ11	46,5
15200089	300	178	270	445 / 400	22 F10 4xØ11	51,3
15200090	300 (PN 16)	178	270	445 / 410	22 F10 4xØ11	69,0
15200091	350	190	315	505 / 460	27 F12 4xØ14	80,0
15200092	350 (PN 16)	190	315	533 / 470	27 F12 4xØ14	95,0
15200093	400	216	350	565 / 515	27 F12 4xØ14	101,0
15200094	400 (PN 16)	216	350	597 / 525	27 F12 4xØ14	120,5
15200095	450	222	375	615 / 565	36 F14 4xØ18	123,2
15200096	450 (PN 16)	222	375	640 / 585	36 F14 4xØ18	150,0
15200097	500	229	415	670 / 620	36 F14 4xØ18	170,0
15200098	500 (PN 16)	229	415	715 / 650	36 F14 4xØ18	210,0
15200099	600	267	465	780 / 725	46 F16 4xØ22	231,0
15200100	600 (PN 16)	267	465	840 / 770	46 F16 4xØ22	291,0
15200101	700	292	555	895 / 840	Ø70 F16 4xØ22	
	700 (PN16)	292	555	910 / 840	Ø80 F25 8xØ18	

## Butterfly valves

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200102	800	318	620	1015 / 950	Ø80 F25 8xØ18	
	800 (PN16)	318	620	1025 / 950	Ø100 F25 8xØ18	
15200103	900	330	675	1115 / 1050	Ø90 F25 8xØ18	
	900 (PN16)	330	675	1112 / 1050	Ø110 F25 8xØ18	
15200104	1000	410	740	1230 / 1160	Ø90 F25 8xØ18	
	1000 (PN16)	410	740	1255 / 1170	Ø120 F25 8xØ18	

## Lever Series 2

Article no.	DIMENSIONS (mm)					
	DN	L	H	Stem square	ISO 5211	
40106560	50-100	232	57,5	11 x11	F07	
40106561	125-150	329	69	14 x 14	F07	
40106562	200	329	69	17 x 17	F07	
40106563	250-300	400	80,5	22 x 22	F10	

## Gearbox series Q

Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

- Complete with pneumatic or electrical actuator
- With gear operator

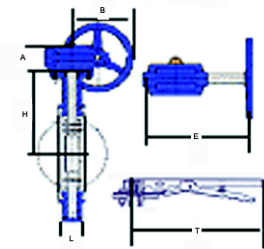


# Butterfly Valves

## Lugged

## Butterfly valves

<b>Butterfly valves</b>	<b>Type : 3533</b>
<b>Lugged w/threaded holes for PN10/16, EPDM- seat, SS disc</b>	
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.	
<ul style="list-style-type: none"> <li>* Lugged type can be mounted on end flange and also ensures that the valve is 100% centered.</li> <li>* Double O-ring seal on stem, guide bushes on stem to minimize wear.</li> <li>* Short face to face and low weight.</li> <li>* Exchangeable seat.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>3533</b>
<b>Material</b>	: <b>Ductile iron ASTM A395 w/blue coating</b>
<b>Pressure rating</b>	: <b>PN 10</b>
<b>Disc</b>	: <b>Stainless steel AISI 316 (16 bar DN 40 - DN 100)</b>
<b>Stem</b>	: <b>Stainless steel AISI 410</b>
<b>Stem bush</b>	: <b>Delrin on top stem and Bronze on bottom</b>
<b>Lever</b>	: <b>DN 40 - DN 300: FCD 45</b>
<b>Gear operator</b>	: <b>DN 200 - DN 600</b>
<b>Seat</b>	: <b>EPDM</b>
<b>Face to face</b>	: <b>DIN 3202-K1 / ISO 5752 tabel 5 short</b>
<b>Top flange</b>	: <b>ISO 5211</b>
<b>Connection</b>	: <b>Mounting between DIN flanges PN 10/16</b>
<b>Temperature</b>	: <b>EPDM: -10°C to +120°C</b>



### With EPDM-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER	
	DN	L	H	Kv	Top flange	Weight (kg)	
15365045	40	33	120	113	F07	2,2	
15365055	50	43	143	193	F07	3,4	
15365065	65	46	155	315	F07	4,0	
15365080	80	46	162	425	F07	4,5	
15365100	100	52	181	723	F07	7,6	
15365125	125	56	197	1243	F07	9,5	
15365150	150	56	210	1859	F07	10,4	
15365200	200	60	243	3124	F10	17,5	
15365250	250	68	286	4757	F10	26,5	
15365300	300	78	309	7058	F10	43,5	
15365350	350	78	329	8319	F12	58	
15365351	400	102	361	11458	F12	81	
15365352	450	114	393	13612	F14	110	
15365353	500	127	427	18748	F14	155	
15365354	600	154	492	25217	F16	259	

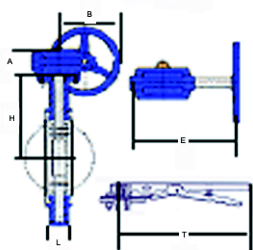
### Lever

Article no.	DIMENSIONS (mm)					OTHER	
	DN	T	A	Stem square	ISO 5211	Weight (kg)	
40106050	40-100	200	68	11 x 11	F07	0,7	
40106100	125-150	250	68	14 x 14	F07	0,8	
40106150	200	355	75	17 x 17	F10	1,6	
40106200	250	355	75	19 x 19	F10	1,6	
40106300	300	355	75	22 x 22	F10	1,6	

**Also available:**

- Complete with pneumatic or electrical actuator
- Wafer type, other seat materials (Viton, NBR) and disc materials (Al-Br, Ductile iron)

## Butterfly valves



### Butterfly valves

Type : 3533

Lugged w/threaded holes for PN10/16, NBR- seat, SS disc

Suitable for: Liquids, gasses and media in powder form. Depending on seat type.

- \* Lugged type can be mounted on end flange and also ensures that the valve is 100% centered.
- \* Double O-ring seal on stem, guide bushes on stem to minimize wear.
- \* Short face to face and low weight.
- \* Exchangeable seat.
- \* Top flange acc. to ISO 5211 for for easy actuator mounting.

### Specifications

<b>Type</b>	: 3533
<b>Material</b>	: Ductile iron ASTM A395 w/blue coating
Pressure rating	: PN 10
Disc	: Stainless steel AISI 316 (16 bar DN 40 - DN 100)
Stem	: Stainless steel AISI 410
Stem bush	: Delrin on top stem and Bronze on bottom
Lever	: DN 40 - DN 300: FCD 45
Gear operator	: DN 200 - DN 600
Seat	: NBR
Face to face	: DIN 3202-K1 / ISO 5752 tabel 5 short
Top flange	: ISO 5211
Connection	: Mounting between DIN flanges PN 10/16
Temperature	: NBR: -10°C to +80°C

With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	Kv	Top flange	Weight (kg)
15360201	40	33	120	113	F07	2,2
15360202	50	43	143	193	F07	3,4
15360203	65	46	155	315	F07	4,0
15360204	80	46	162	425	F07	4,5
15360205	100	52	181	723	F07	7,6
15360206	125	56	197	1243	F07	9,5
15360207	150	56	210	1859	F07	10,4
15360208	200	60	243	3124	F10	17,5
15360209	250	68	286	4757	F10	26,5
15360210	300	78	309	7058	F10	43,5
15360211	350	78	329	8319	F12	58
15360212	400	102	361	11458	F12	81
15360213	450	114	393	13612	F14	110
15360214	500	127	427	18748	F14	155
15360215	600	154	492	25217	F16	259

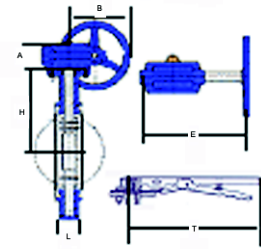
### Lever

Article no.	DIMENSIONS (mm)					OTHER
	DN	T	A	Stem square	ISO 5211	Weight (kg)
40106050	40-100	200	68	11 x 11	F07	0,7
40106100	125-150	250	68	14 x 14	F07	0,8
40106150	200	355	75	17 x 17	F10	1,6
40106200	250	355	75	19 x 19	F10	1,6
40106300	300	355	75	22 x 22	F10	1,6

- Also available:
- Complete with pneumatic or electrical actuator
  - Wafer type, other seat materials (Viton, EPDM) and disc materials (Al-Br, Ductile iron)

## Butterfly valves

<b>Butterfly valves</b>	<b>Type : 3533</b>
<b>Lugged w/threaded holes for PN10/16, NBR- seat, ALU-bronze disc</b>	
<b>Suitable for:</b> Liquids, gasses and media in powder form. Depending on seat type.	
<ul style="list-style-type: none"> <li>* Lugged type can be mounted on end flange and also ensures that the valve is 100% centered.</li> <li>* Double O-ring seal on stem, guide bushes on stem to minimize wear.</li> <li>* Short face to face and low weight.</li> <li>* Exchangeable seat.</li> <li>* Top flange acc. to ISO 5211 for for easy actuator mounting.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>3533</b>
<b>Material</b>	: <b>Ductile iron ASTM A395 w/blue coating</b>
<b>Pressure rating</b>	: <b>PN 10</b>
<b>Disc</b>	: <b>Alu-bronze ALBC2</b>
<b>Stem</b>	: <b>Stainless steel AISI 410</b>
<b>Stem bush</b>	: <b>Delrin on top stem and Bronze on bottom</b>
<b>Lever</b>	: <b>DN 40 - DN 300: FCD 45</b>
<b>Gear operator</b>	: <b>DN 200 - DN 600</b>
<b>Seat</b>	: <b>NBR</b>
<b>Face to face</b>	: <b>DIN 3202-K1 / ISO 5752 tabel 5 short</b>
<b>Top flange</b>	: <b>ISO 5211</b>
<b>Connection</b>	: <b>Mounting between DIN flanges PN 10/16</b>
<b>Temperature</b>	: <b>NBR: -10°C to +80°C</b>



### With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER	
	DN	L	H	Kv	Top flange	Weight (kg)	
15360216	40	33	120	113	F07	2,2	
15360217	50	43	143	193	F07	3,4	
15360218	65	46	155	315	F07	4,0	
15360219	80	46	162	425	F07	4,5	
15360220	100	52	181	723	F07	7,6	
15360221	125	56	197	1243	F07	9,5	
15360222	150	56	210	1859	F07	10,4	
15360223	200	60	243	3124	F10	17,5	
15360224	250	68	286	4757	F10	26,5	
15360225	300	78	309	7058	F10	43,5	
15360226	350	78	329	8319	F12	58	
15360227	400	102	361	11458	F12	81	
15360228	450	114	393	13612	F14	110	
15360229	500	127	427	18748	F14	155	
15360230	600	154	492	25217	F16	259	

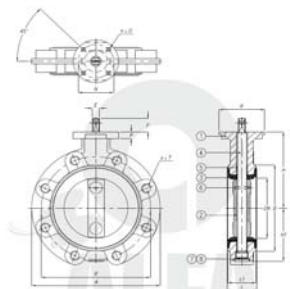
### Lever

Article no.	DIMENSIONS (mm)					OTHER	
	DN	T	A	Stem square	ISO 5211	Weight (kg)	
40106050	40-100	200	68	11 x 11	F07	0,7	
40106100	125-150	250	68	14 x 14	F07	0,8	
40106150	200	355	75	17 x 17	F10	1,6	
40106200	250	355	75	19 x 19	F10	1,6	
40106300	300	355	75	22 x 22	F10	1,6	

**Also available:**

- Complete with pneumatic or electrical actuator
- Wafer type, other seat materials (Viton, EPDM) and disc materials (stainless steel, Ductile iron)

## Butterfly valves



### Butterfly valves Type : Alfa 64

**Lugged w/threaded holes for PN10/16, EPDM- seat, ALU-bronze disc**

**Suitable for:** Liquids, gasses and media in powder form. Depending on seat type.

- \* Short face to face and low weight.
- \* Vulcanised lining bonded to body.
- \* Top flange acc. to ISO 5211 for for easy actuator mounting.

#### Specifications

<b>Type</b>	: Alfa 64
<b>Material</b>	: GGG40 (D.I. JS 1030)
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)
<b>Disc</b>	: AB 2
<b>Stem</b>	: Stainless steel 1.4122
<b>Bearing bushes</b>	: Bronze
<b>Seat</b>	: EPDM
<b>Face to face</b>	: ISO 5752, table 5, short.
	: DN 700 - DN 1000 EN 558-1, row 20
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)
<b>Connection</b>	: Mounting between DIN flanges PN 10/16
<b>Coating</b>	: RAL 7036
<b>Design</b>	: EN593

### With EPDM-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200158	50	43	118	165 / 125	11 F07 4xØ9	4,0
15200159	65	46	126	185 / 145	11 F07 4xØ9	5,0
15200160	80	46	133	195 / 160	11 F07 4xØ9	5,6
15200161	100	52	147	224 / 180	11 F07 4xØ9	8,5
15200162	125	56	160	254 / 210	14 F07 4xØ9	10,5
15200163	150	56	180	285 / 240	14 F07 4xØ9	13,1
15200164	200	60	204	337 / 295	17 F07 4xØ9	18,5
	200 (PN 16)	60	204	335 / 295	17 F07 4xØ9	18,5
15200165	250	68	245	405 / 350	22 F10 4xØ11	30,3
15200166	250 (PN 16)	68	245	405 / 355	22 F10 4xØ11	30,3
15200167	300	78	270	472 / 400	22 F10 4xØ11	46,1
15200168	300 (PN 16)	78	270	472 / 410	22 F10 4xØ11	46,1
15200169	350	78	315	520 / 460	27 F12 4xØ14	57,5
15200170	350 (PN 16)	78	315	520 / 470	27 F12 4xØ14	57,5
15200171	400	102	350	597 / 515	27 F12 4xØ14	96,5
15200172	400 (PN 16)	102	350	597 / 525	27 F12 4xØ14	96,5
15200173	450	114	375	640 / 565	36 F14 4xØ18	
15200174	450 (PN 16)	114	375	640 / 585	36 F14 4xØ18	
15200175	500	127	415	710 / 620	36 F14 4xØ18	
15200176	500 (PN 16)	127	415	710 / 650	36 F14 4xØ18	
15200177	600	154	465	780 / 725	46 F16 4xØ22	
15200178	600 (PN 16)	154	465	780 / 770	46 F16 4xØ22	
15200179	700	165	555	805 / 840	Ø70 F16 4xØ22	
	700 (PN16)	165	555	805 / 840	Ø80 F25 8xØ18	

## Butterfly valves

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200180	800	190	620	910 / 950	Ø80 F25 8xØ18	
	800 (PN16)	190	615	900 / 950	Ø100 F25 8xØ18	
15200181	900	203	660	1110 / 1050	Ø90 F25 8xØ18	
	900 (PN16)	203	675	1010 / 1050	Ø110 F25 8xØ18	
15200182	1000	216	725	1110 / 1160	Ø90 F25 8xØ18	
	1000 (PN16)	216	750	1120 / 1170	Ø120 F25 8xØ18	

## Lever Series 2

Article no.	DIMENSIONS (mm)				
	DN	L	H	Stem square	ISO 5211
40106560	50-100	232	57,5	11 x 11	F07
40106561	125-150	329	69	14 x 14	F07
40106562	200	329	69	17 x 17	F07
40106563	250-300	400	80,5	22 x 22	F10

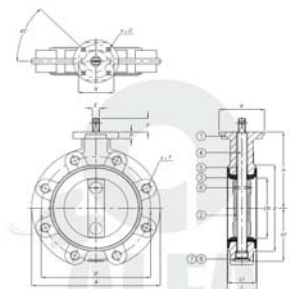
## Gearbox series Q

Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x 11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

- Complete with pneumatic or electrical actuator
- With gear operator

## Butterfly valves



### Butterfly valves

Type : Alfa 64

Lugged w/threaded holes for PN10/16, EPDM- seat, SS disc

Suitable for: Liquids, gasses and media in powder form. Depending on seat type.

- \* Short face to face and low weight.
- \* Vulcanised lining bonded to body.
- \* Top flange acc. to ISO 5211 for for easy actuator mounting.

### Specifications

<b>Type</b>	: Alfa 64
<b>Material</b>	: GGG40 (D.I. JS 1030)
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)
<b>Disc</b>	: Stainless steel 1.4408
<b>Stem</b>	: Stainless steel 1.4122
<b>Bearing bushes</b>	: Bronze
<b>Seat</b>	: EPDM
<b>Face to face</b>	: ISO 5752, table 5, short.
	: DN 700 - DN 1000 EN 558-1, row 20
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)
<b>Connection</b>	: Mounting between DIN flanges PN 10/16
<b>Coating</b>	: RAL 7036
<b>Design</b>	: EN593

### With EPDM-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200210	50	43	118	165 / 125	11 F07 4xØ9	4,0
15200211	65	46	126	185 / 145	11 F07 4xØ9	5,0
15200212	80	46	133	195 / 160	11 F07 4xØ9	5,6
15200213	100	52	147	224 / 180	11 F07 4xØ9	8,5
15200214	125	56	160	254 / 210	14 F07 4xØ9	10,5
15200215	150	56	180	285 / 240	14 F07 4xØ9	13,1
15200216	200	60	204	337 / 295	17 F07 4xØ9	18,5
	200 (PN 16)	60	204	335 / 295	17 F07 4xØ9	18,5
15200217	250	68	245	405 / 350	22 F10 4xØ11	30,3
15200218	250 (PN 16)	68	245	405 / 355	22 F10 4xØ11	30,3
15200219	300	78	270	472 / 400	22 F10 4xØ11	46,1
15200220	300 (PN 16)	78	270	472 / 410	22 F10 4xØ11	46,1
15200221	350	78	315	520 / 460	27 F12 4xØ14	57,5
15200222	350 (PN 16)	78	315	520 / 470	27 F12 4xØ14	57,5
15200223	400	102	350	597 / 515	27 F12 4xØ14	96,5
15200224	400 (PN 16)	102	350	597 / 525	27 F12 4xØ14	96,5
15200225	450	114	375	640 / 565	36 F14 4xØ18	
15200226	450 (PN 16)	114	375	640 / 585	36 F14 4xØ18	
15200227	500	127	415	710 / 620	36 F14 4xØ18	
15200228	500 (PN 16)	127	415	710 / 650	36 F14 4xØ18	
15200229	600	154	465	780 / 725	46 F16 4xØ22	
15200230	600 (PN 16)	154	465	780 / 770	46 F16 4xØ22	
15200231	700	165	555	805 / 840	Ø70 F16 4xØ22	
	700 (PN16)	165	555	805 / 840	Ø80 F25 8xØ18	

## Butterfly valves

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200232	800	190	620	910 / 950	Ø80 F25 8xØ18	
	800 (PN16)	190	615	900 / 950	Ø100 F25 8xØ18	
15200233	900	203	660	1110 / 1050	Ø90 F25 8xØ18	
	900 (PN16)	203	675	1010 / 1050	Ø110 F25 8xØ18	
15200234	1000	216	725	1110 / 1160	Ø90 F25 8xØ18	
	1000 (PN16)	216	750	1120 / 1170	Ø120 F25 8xØ18	

## Lever Series 2

Article no.	DIMENSIONS (mm)					ISO 5211
	DN	L	H	Stem square		
40106560	50-100	232	57,5	11 x 11		F07
40106561	125-150	329	69	14 x 14		F07
40106562	200	329	69	17 x 17		F07
40106563	250-300	400	80,5	22 x 22		F10

## Gearbox series Q

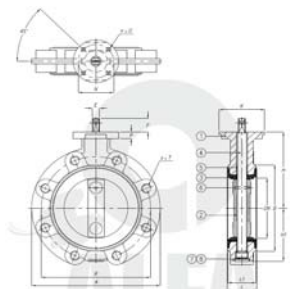
Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x 11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

- Complete with pneumatic or electrical actuator
- With gear operator



## Butterfly valves



### Butterfly valves

Type : Alfa 64

Lugged w/threaded holes for PN10/16, NBR- seat, ALU-bronze disc

Suitable for: Liquids, gasses and media in powder form. Depending on seat type.

- \* Short face to face and low weight.
- \* Vulcanised lining bonded to body.
- \* Top flange acc. to ISO 5211 for for easy actuator mounting.

### Specifications

<b>Type</b>	: Alfa 64
<b>Material</b>	: GGG40 (D.I. JS 1030)
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)
<b>Disc</b>	: AB 2
<b>Stem</b>	: Stainless steel 1.4122
<b>Bearing bushes</b>	: Bronze
<b>Seat</b>	: NBR
<b>Face to face</b>	: ISO 5752, table 5, short.
	: DN 700 - DN 1000 EN 558-1, row 20
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)
<b>Connection</b>	: Mounting between DIN flanges PN 10/16
<b>Coating</b>	: RAL 7036
<b>Design</b>	: EN593

### With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200132	50	43	118	165 / 125	11 F07 4xØ9	4,0
15200133	65	46	126	185 / 145	11 F07 4xØ9	5,0
15200134	80	46	133	195 / 160	11 F07 4xØ9	5,6
15200135	100	52	147	224 / 180	11 F07 4xØ9	8,5
15200136	125	56	160	254 / 210	14 F07 4xØ9	10,5
15200137	150	56	180	285 / 240	14 F07 4xØ9	13,1
15200138	200	60	204	337 / 295	17 F07 4xØ9	18,5
	200 (PN 16)	63	204	335 / 295	17 F07 4xØ9	18,5
15200139	250	68	245	405 / 350	22 F10 4xØ11	30,3
15200140	250 (PN 16)	68	245	405 / 355	22 F10 4xØ11	30,3
15200141	300	78	270	472 / 400	22 F10 4xØ11	46,1
15200142	300 (PN 16)	78	270	472 / 410	22 F10 4xØ11	46,1
15200143	350	78	315	520 / 460	27 F12 4xØ14	57,5
15200144	350 (PN 16)	78	315	520 / 470	27 F12 4xØ14	57,5
15200145	400	102	350	597 / 515	27 F12 4xØ14	96,5
15200146	400 (PN 16)	102	350	597 / 525	27 F12 4xØ14	96,5
15200147	450	114	375	640 / 565	36 F14 4xØ18	
15200148	450 (PN 16)	114	375	640 / 585	36 F14 4xØ18	
15200149	500	127	415	710 / 620	36 F14 4xØ18	
15200150	500 (PN 16)	127	415	710 / 650	36 F14 4xØ18	
15200151	600	154	465	780 / 725	46 F16 4xØ22	
15200152	600 (PN 16)	154	465	780 / 770	46 F16 4xØ22	
15200153	700	165	555	805 / 840	Ø70 F16 4xØ22	
	700 (PN16)	165	555	805 / 840	Ø80 F25 8xØ18	

## Butterfly valves

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200154	800	190	620	910 / 950	Ø80 F25 8xØ18	
	800 (PN16)	190	615	900 / 950	Ø100 F25 8xØ18	
15200155	900	203	660	1110 / 1050	Ø90 F25 8xØ18	
	900 (PN16)	203	675	1010 / 1050	Ø110 F25 8xØ18	
15200156	1000	216	725	1110 / 1160	Ø90 F25 8xØ18	
	1000 (PN16)	216	750	1120 / 1170	Ø120 F25 8xØ18	

## Lever Series 2

Article no.	DIMENSIONS (mm)				
	DN	L	H	Stem square	ISO 5211
40106560	50-100	232	57,5	11 x 11	F07
40106561	125-150	329	69	14 x 14	F07
40106562	200	329	69	17 x 17	F07
40106563	250-300	400	80,5	22 x 22	F10

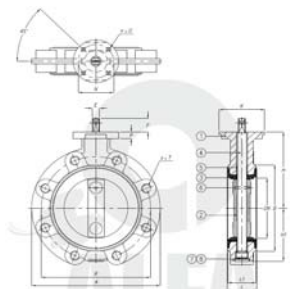
## Gearbox series Q

Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x 11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

- Complete with pneumatic or electrical actuator
- With gear operator

## Butterfly valves



### Butterfly valves Type : Alfa 64

**Lugged w/threaded holes for PN10/16, NBR- seat, SS disc**

**Suitable for:** Liquids, gasses and media in powder form. Depending on seat type.

- \* Short face to face and low weight.
- \* Vulcanised lining bonded to body.
- \* Top flange acc. to ISO 5211 for for easy actuator mounting.

#### Specifications

<b>Type</b>	: Alfa 64
<b>Material</b>	: GGG40 (D.I. JS 1030)
<b>Pressure rating</b>	: PN 10 (PN 16 see table below)
<b>Disc</b>	: Stainless steel 1.4408
<b>Stem</b>	: Stainless steel 1.4122
<b>Bearing bushes</b>	: Bronze
<b>Seat</b>	: NBR
<b>Face to face</b>	: ISO 5752, table 5, short.
	: DN 700 - DN 1000 EN 558-1, row 20
<b>Top flange</b>	: ISO 5211 (DN 700 onward, round stem with keyway)
<b>Connection</b>	: Mounting between DIN flanges PN 10/16
<b>Coating</b>	: RAL 7036
<b>Design</b>	: EN593

### With NBR-seat bare shaft

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200184	50	43	118	165 / 125	11 F07 4xØ9	4,0
15200185	65	46	126	185 / 145	11 F07 4xØ9	5,0
15200186	80	46	133	195 / 160	11 F07 4xØ9	5,6
15200187	100	52	147	224 / 180	11 F07 4xØ9	8,5
15200188	125	56	160	254 / 210	14 F07 4xØ9	10,5
15200189	150	56	180	285 / 240	14 F07 4xØ9	13,1
15200190	200	60	204	337 / 295	17 F07 4xØ9	18,5
	200 (PN 16)	60	204	335 / 295	17 F07 4xØ9	18,5
15200191	250	68	245	405 / 350	22 F10 4xØ11	30,3
15200192	250 (PN 16)	68	245	405 / 355	22 F10 4xØ11	30,3
15200193	300	78	270	472 / 400	22 F10 4xØ11	46,1
15200194	300 (PN 16)	78	270	472 / 410	22 F10 4xØ11	46,1
15200195	350	78	315	520 / 460	27 F12 4xØ14	57,5
15200196	350 (PN 16)	78	315	520 / 470	27 F12 4xØ14	57,5
15200197	400	102	350	597 / 515	27 F12 4xØ14	96,5
15200198	400 (PN 16)	102	350	597 / 525	27 F12 4xØ14	96,5
15200199	450	114	375	640 / 565	36 F14 4xØ18	
15200200	450 (PN 16)	114	375	640 / 585	36 F14 4xØ18	
15200201	500	127	415	710 / 620	36 F14 4xØ18	
15200202	500 (PN 16)	127	415	710 / 650	36 F14 4xØ18	
15200203	600	154	465	780 / 725	46 F16 4xØ22	
15200204	600 (PN 16)	154	465	780 / 770	46 F16 4xØ22	
15200205	700	165	555	805 / 840	Ø70 F16 4xØ22	
	700 (PN16)	165	555	805 / 840	Ø80 F25 8xØ18	

## Butterfly valves

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	H	A / R	Top flange	Weight (kg)
15200206	800	190	620	910 / 950	Ø80 F25 8xØ18	
	800 (PN16)	190	615	900 / 950	Ø100 F25 8xØ18	
15200207	900	203	660	1110 / 1050	Ø90 F25 8xØ18	
	900 (PN16)	203	675	1010 / 1050	Ø110 F25 8xØ18	
15200208	1000	216	725	1110 / 1160	Ø90 F25 8xØ18	
	1000 (PN16)	216	750	1120 / 1170	Ø120 F25 8xØ18	

## Lever Series 2

Article no.	DIMENSIONS (mm)				
	DN	L	H	Stem square	ISO 5211
40106560	50-100	232	57,5	11 x 11	F07
40106561	125-150	329	69	14 x 14	F07
40106562	200	329	69	17 x 17	F07
40106563	250-300	400	80,5	22 x 22	F10

## Gearbox series Q

Article no.	DIMENSIONS (mm)					ØP
	DN	L	H	Stem	ISO 5211	
40106500	50-100	144,5	28,5	11 x 11	F07	150
40106505	125-150	144,5	28,5	14 x 14	F07	150
40106510	200	220,5	34	17 x 17	F07	200
40106515	250-300	270,5	42,5	22 x 22	F10	250
40106520	350	277,5	42,5	27 x 27	F12	250
40106525	400	328	45	27 x 27	F12	300
40106530	450	328	45	36 x 36	F14	500
40106535	500	340	50	36 x 36	F14	500
40106540	600	408	54,5	46 x 46	F16	500
40106545	700	440	54,5	Ø 70	F16	500
40106550	800	456	54,5	Ø 80	F25	600
40106555	900-1000	540	63,5	Ø 90	F25	500

Also available:

- Complete with pneumatic or electrical actuator
- With gear operator

## Butterfly valves

### Wormgear box type Q

Type no.	DIMENSIONS (mm)				OTHER
	DN	L	A	øW	Weight (kg)
Q200/P125	100	126	64	125	2,5
Q200/P160	125	135	64	160	2,6
Q400/P160	150-250	329	75	160	4,5
Q800/P200	300	254	91	200	8,4
Q2000/P315	350-400	275	100	315	17,5
Q2000/P400	450	275	100	400	17,7
Q4000/P400	500	343	100	500	18,0
Q4000/P400	600	397	128	500	32,5

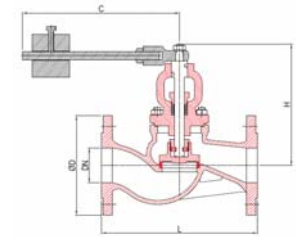
- Also available:
- Complete with pneumatic or electrical actuator.
  - Centric fully lined version type BA.
  - Body materials: Ductile iron, Cast steel, Stainless steel, AL-BR etc.
  - Seat materials: EPDM, Viton, PTFE
  - Disc materials: Ductile iron, AL-BR, Monel etc.
  - Also special Shaft and Pin materiale and coatings.

# **Self Closing Valves**

## **Cast Iron & Cast Steel**

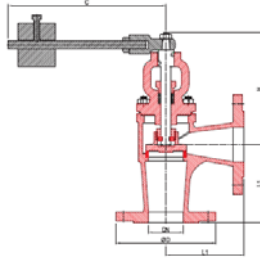
## Globe valves

<b>Globe valves cast iron</b>	<b>Type : 1.017/B</b>
<b>Flange connection PN 16, self closing</b>	
<b>Suitable for:</b> Hot and cold water, oil and steam.	
<p>* For marine service, as quickly operated safety valves with counter weighted lever.          * With a 90° turn the valve will open or close respectively.</p>	
<b>Specifications</b>	
<b>Type</b>	: <b>1.017/B</b>
<b>Material</b>	: <b>Cast iron GG-25</b>
<b>Pressure rating</b>	: <b>PN 16</b>
<b>Bonnet</b>	: <b>Cast iron GG-25</b>
<b>Lever</b>	: <b>GGG-40.3</b>
<b>Disc ≤DN50</b>	: <b>X5CrNi-18-9</b>
<b>Disc ≥DN65</b>	: <b>GG-25 surface X5CrNi-18-9</b>
<b>Stem</b>	: <b>X5CrNi-18-9</b>
<b>Gasket</b>	: <b>Carbo (asbestos free)</b>
<b>Gland packing</b>	: <b>Graphite</b>
<b>Face to face</b>	: <b>EN 558 series 1, DIN 3202-F1</b>
<b>Connections</b>	: <b>DIN 2501 PN 16</b>
When ordering please state classification demands.	



Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L	C	H	ØD	PCD	Weight (kg)
05100295	15	130	230	200	95	65 x 4 x 14	
05100296	20	150	230	200	105	75 x 4 x 14	
05100297	25	160	230	210	115	85 x 4 x 14	
05100298	32	180	250	210	140	100 x 4 x 18	
05109151	40	200	250	253	150	110 x 4 x 18	
05100299	50	230	280	266	165	125 x 4 x 18	
05100300	65	290	310	287	185	145 x 4 x 18	
05100301	80	310	310	328	200	160 x 8 x 18	

## Globe valves



### Globe valves cast steel

Type : 14A

#### Flange connection PN 40, angle self closing

Suitable for: Hot and cold water, oil and steam.

- \* For marine service, as quickly operated safety valves with counter weighted lever.
- \* With a 90° turn the valve will open or close respectively.

#### Specifications

<b>Type</b>	: 14A
<b>Material</b>	: Cast steel GP240GH (GSC25)
<b>Pressure rating</b>	: PN 40
<b>Bonnet</b>	: GP240H (GSC25)
<b>Lever &amp; counter weight:</b>	: Steel (St37)
<b>Disc</b>	: Stainless steel 1.4021
<b>Stem</b>	: Stainless steel 1.4021
<b>Bonnet gasket</b>	: Graphite
<b>Gland packing</b>	: Graphite
<b>Face to face</b>	: EN 558 series 8, DIN 3202-F32
<b>Connections</b>	: DIN 2501 PN 40
<b>Temperature range</b>	: -10°C to +180°C
<b>Working temp.</b>	: Up to 120°C at 40 bar

When ordering please state classification demands.

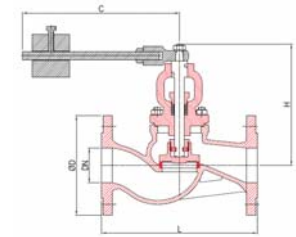
Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L1	C	H	ØD	PCD	Weight (kg)
05300262	15	90	242	153	95	65 x 4 x 14	5,0
05300263	20	95	242	153	105	75 x 4 x 14	5,5
05300264	25	100	242	153	115	85 x 4 x 14	7,0
05300265	32	105	242	158	140	100 x 4 x 18	8,0
05300266	40	115	292	203	150	110 x 4 x 18	13,0
05300267	50	125	292	208	165	155 x 4 x 18	15,0
05300268	65	145	292	208	185	145 x 8 x 18	23
05300269	80	155	292	240	200	160 x 8 x 18	30,0
05300270	100	175	292	260	220	190 x 8 x 22	40,0

- Options:**
- Anti clockwise closing
  - Bronze internals
  - Other flange drilling



## Globe valves

<b>Globe valves cast steel</b>	<b>Type : 14</b>
<b>Flange connection PN 40, self closing</b>	
<b>Suitable for:</b> Hot and cold water, oil and steam.	
<p>* For marine service, as quickly operated safety valves with counter weighted lever.          * With a 90° turn the valve will open or close respectively.</p>	
<b>Specifications</b>	
<b>Type</b>	: <b>14</b>
<b>Material</b>	: <b>Cast steel GP240H</b>
<b>Pressure rating</b>	: <b>PN 40</b>
<b>Bonnet</b>	: <b>GP240H (GSC25)</b>
<b>Lever &amp; counter weight:</b>	<b>Steel (St37)</b>
<b>Disc</b>	: <b>Stainless steel 1.4021</b>
<b>Stem</b>	: <b>Stainless steel 1.4021</b>
<b>Bonnet gasket</b>	: <b>Graphite</b>
<b>Gland packing</b>	: <b>Graphite</b>
<b>Face to face</b>	: <b>EN 558 series 1, DIN 3202-F1</b>
<b>Connections</b>	: <b>DIN 2501 PN 40</b>
<b>Temperature range</b>	: <b>-10°C to +180°C</b>
<b>Working temp.</b>	: <b>Up to 120°C at 40 bar</b>
When ordering please state classification demands.	



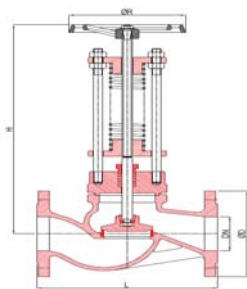
Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L	C	H	ØD	PCD	Weight (kg)
05300248	15	130	242	159	95	65 x 4 x 14	
05300249	20	150	242	159	105	75 x 4 x 14	
05300250	25	160	242	166	115	85 x 4 x 14	
05300251	32	180	242	166	140	100 x 4 x 18	
05300252	40	200	292	207	150	110 x 4 x 18	
05300253	50	230	292	220	165	155 x 4 x 18	
05300254	65	290	292	226	185	145 x 8 x 18	
05300255	80	310	292	267	200	160 x 8 x 18	
05300256	100	350	292	275	220	190 x 8 x 22	

**Options:** - Anti clockwise closing  
 - Other flange drilling

# Overboard Valves

## Cast Steel

## Globe valves



### Globe valves cast steel

Type : 15-ST

#### Flange connection PN 10/16, overboard valve

Suitable for: Cooling water and bilge water systems.

\* Overboard discharge valve, stop type. Mainly used onboard ships in pressurised water and liquid systems for overboard discharge.

#### Specifications

Type	: 15-ST
Material	: Cast steel GP240GH (GSC25)
Pressure rating	: PN 10/16
Bonnet	: GP240GH (GSC25)
Handwheel	: Cast iron GG-25
Disc	: ≤DN 65 stainless steel 1.4021 : ≥DN 80 cast steel GP240GH (GSC25)
Stem	: Stainless steel 1.4021
Bonnet gasket	: Graphite
Gland packing	: Graphite
Columns	: Stainless steel 1.4021
Spring	: Galvanized steel 1.1200
Face to face	: EN 558 series 1, DIN 3202-F1
Connections	: DIN 2501 PN 16 DN 15 - DN 175 : DIN 2501 PN 10 DN 200 - DN 500
Temperature range	: -10°C to +180°C
Working temp.	: Up to 120°C : DN 15 - DN 125 : 16 bar : DN 150 - DN 200 : 10 bar : DN 250 - DN 300 : 6 bar : DN 350 - DN 500 : 4 bar

Adjustable opening pressure is set to 0,1 - 0,5 bar

When ordering please state classification demands.

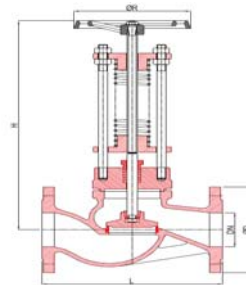
Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L	ØR	H	ØD	PCD	Weight (kg)
05300276	15	130	120	251	95	65 x 4 x 14	4,5
05300277	20	150	120	251	105	75 x 4 x 14	5,0
05300278	25	160	140	265	115	85 x 4 x 14	6,0
05300279	32	180	140	280	140	100 x 4 x 18	8,5
05300280	40	200	160	350	150	110 x 4 x 18	13
05300281	50	230	160	373	165	125 x 4 x 18	14
05300282	65	290	180	400	185	145 x 4 x 18	19
05300283	80	310	200	490	200	160 x 8 x 18	25
05300284	100	350	225	522	220	180 x 8 x 18	39
05300285	125	400	250	618	250	210 x 8 x 18	60
05300286	150	480	300	750	285	240 x 8 x 22	89
05300287	200	600	400	810	340	295 x 8 x 22	150
05300288	250	730	520	950	395	350 x 12 x 22	190
05300289	300	850	520	1007	445	400 x 12 x 22	380
05300352	350	980	640	1000	505	460 x 16 x 22	560
05300353	400	1100	640	1105	565	515 x 16 x 26	715
05300354	450	1200	640	1200	615	565 x 20 x 26	1000
05300355	500	1250	640	1260	670	620 x 20 x 26	1200

Options: - Indicator

- Crank operation
- Blocks
- Other flange drilling

## Globe valves

Globe valves cast steel		Type : 15-SD
Flange connection PN 10/16, SDNR overboard valve		
Suitable for: Cooling water and bilge water systems.		
* Overboard discharge valve, SDNR type. Mainly used onboard ships in pressurised water and liquid systems for overboard discharge.		
<b>Specifications</b>		
Type	: 15-SD	
Material	: Cast steel GP240GH (GSC25)	
Pressure rating	: PN 10/16	
Bonnet	: GP240GH (GSC25)	
Handwheel	: Cast iron GG-25	
Disc	: ≤DN 65 stainless steel 1.4021 : ≥DN 80 cast steel GP240GH (GSC25)	
Stem	: Stainless steel 1.4021	
Bonnet gasket	: Graphite	
Gland packing	: Graphite	
Columns	: Stainless steel 1.4021	
Spring	: Galvanized steel 1.1200	
Face to face	: EN 558 series 1, DIN 3202-F1	
Connections	: DIN 2501 PN 16 DN 15 - DN 175 : DIN 2501 PN 10 DN 200 - DN 500	
Temperature range	: -10°C to +180°C	
Working temp.	: Up to 120°C : DN 15 - DN 125 : 16 bar : DN 150 - DN 200 : 10 bar : DN 250 - DN 300 : 6 bar : DN 350 - DN 500 : 4 bar	
Adjustable opening pressure is set to 0,1 - 0.5 bar		
When ordering please state classification demands.		



Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L	ØR	H	ØD	PCD	Weight (kg)
05300318	15	130	120	251	95	65 x 4 x 14	4,5
05300319	20	150	120	251	105	75 x 4 x 14	5,0
05300320	25	160	140	265	115	85 x 4 x 14	6,0
05300321	32	180	140	280	140	100 x 4 x 18	8,5
05300322	40	200	160	350	150	110 x 4 x 18	13
05300323	50	230	160	373	165	125 x 4 x 18	14
05300324	65	290	180	400	185	145 x 4 x 18	19
05300325	80	310	200	490	200	160 x 8 x 18	25
05300326	100	350	225	522	220	180 x 8 x 18	39
05300327	125	400	250	618	250	210 x 8 x 18	60
05300328	150	480	300	750	285	240 x 8 x 22	89
05300329	200	600	400	810	340	295 x 8 x 22	150
05300330	250	730	520	950	395	350 x 12 x 22	190
05300331	300	850	520	1007	445	400 x 12 x 22	380
05300356	350	980	640	1000	505	460 x 16 x 22	560
05300332	400	1100	640	1105	565	515 x 16 x 26	715
05300333	450	1200	640	1200	615	565 x 20 x 26	1000
05300334	500	1250	640	1260	670	620 x 20 x 26	1200

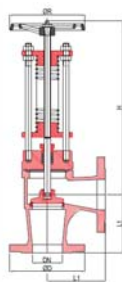
Options: - Indicator

- Crank operation
- Blocks
- Other flange drilling



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## Globe valves



### Globe valves cast steel

Type : 15A-ST

#### Flange connection PN 10/16, angle overboard valve

Suitable for: Cooling water and bilge water systems.

\* Overboard discharge valve, stop type. Mainly used onboard ships in pressurised water and liquid systems for overboard discharge.

#### Specifications

Type	: 15A-ST
Material	: Cast steel GP240GH (GSC25)
Pressure rating	: PN 10/16
Bonnet	: GP240GH (GSC25)
Handwheel	: Cast iron GG-25
Disc	: ≤DN 65 stainless steel 1.4021
	: ≥DN 80 cast steel GP240GH (GSC25)
Stem	: Stainless steel 1.4021
Bonnet gasket	: Graphite
Gland packing	: Graphite
Columns	: Stainless steel 1.4021
Spring	: Galvanized steel 1.1200
Face to face	: EN 558 series 8, DIN 3202-F32
Connections	: DIN 2501 PN 16 DN 15 - DN 175
	: DIN 2501 PN 10 DN 200 - DN 500
Temperature range	: -10°C to +120°C
Temperature range	: -10°C to 180°C
Working temp.	: Up to 120°C
	: DN 15 - DN 125 : 16 bar
	: DN 150 - DN 200 : 10 bar
	: DN 250 - DN 300 : 6 bar
	: DN 350 - DN 500 : 4 bar

Adjustable opening pressure is set to 0,1 - 0,5 bar

When ordering please state classification demands.

Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L1	ØR	H	ØD	PCD	Weight (kg)
05300301	15	95	120	245	95	65 x 4 x 14	4,5
05300302	20	95	120	245	105	75 x 4 x 14	5,5
05300303	25	100	140	253	115	85 x 4 x 14	6,5
05300304	32	105	140	273,5	140	100 x 4 x 18	7,5
05300305	40	115	160	346	150	110 x 4 x 18	12
05300306	50	125	160	360	165	125 x 4 x 18	15
05300307	65	145	180	381	185	145 x 4 x 18	19
05300308	80	155	200	462	200	160 x 8 x 18	25
05300309	100	175	225	500	220	180 x 8 x 18	40
05300310	125	200	250	565	250	210 x 8 x 18	63
05300311	150	225	300	684	285	240 x 8 x 22	83
05300312	200	275	400	715	340	295 x 12 x 22	147
05300313	250	325	520	810	405	355 x 12 x 26	250
05300314	300	375	520	850	460	410 x 12 x 26	350
05300357	350	425	640	900	520	470 x 16 x 26	470
05300315	400	475	640	930	580	525 x 16 x 30	500
05300316	450	500	640	1000	640	585 x 20 x 30	790
05300317	500	515	640	1100	715	650 x 20 x 33	945

Options: - Indicator

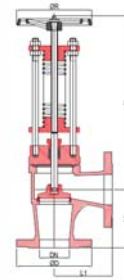
- Crank operation

- Blocks

- Other flange drilling

## Globe valves

Globe valves cast steel		Type : 15A-SD
Flange connection PN 10/16, SDNR angle overboard valve		
Suitable for: Cooling water and bilge water systems.		
* Overboard discharge valve, SDNR type. Mainly used onboard ships in pressurised water and liquid systems for overboard discharge.		
<b>Specifications</b>		
Type	: 15A-SD	
Material	: Cast steel GP240GH (GSC25)	
Pressure rating	: PN 10/16	
Bonnet	: GP240GH (GSC25)	
Handwheel	: Cast iron GG-25	
Disc	: ≤DN 65 stainless steel 1.4021 : ≥DN 80 cast steel GP240GH (GSC25)	
Stem	: Stainless steel 1.4021	
Bonnet gasket	: Graphite	
Gland packing	: Graphite	
Columns	: Stainless steel 1.4021	
Spring	: Galvanized steel 1.1200	
Face to face	: EN 558 series 8, DIN 3202-F32	
Connections	: DIN 2501 PN 16 DN 15 - DN 175 : DIN 2501 PN 10 DN 200 - DN 500	
Temperature range	: -10°C to +120°C	
Temperature range	: -10°C to 180°C	
Working temp.	: Up to 120°C	
	: DN 15 - DN 125 : 16 bar	
	: DN 150 - DN 200 : 10 bar	
	: DN 250 - DN 300 : 6 bar	
	: DN 350 - DN 500 : 4 bar	
Adjustable opening pressure is set to 0,1 - 0.5 bar		
When ordering please state classification demands.		



Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L1	ØR	H	ØD	PCD	Weight (kg)
05300335	15	95	120	245	95	65 x 4 x 14	4,5
05300336	20	95	120	245	105	75 x 4 x 14	5,5
05300337	25	100	140	253	115	85 x 4 x 14	6,5
05300338	32	105	140	273,5	140	100 x 4 x 18	7,5
05300339	40	115	160	346	150	110 x 4 x 18	12
05300340	50	125	160	360	165	125 x 4 x 18	15
05300341	65	145	180	381	185	145 x 4 x 18	19
05300342	80	155	200	462	200	160 x 8 x 18	25
05300343	100	175	225	500	220	180 x 8 x 18	40
05300344	125	200	250	565	250	210 x 8 x 18	63
05300345	150	225	300	684	285	240 x 8 x 22	83
05300346	200	275	400	715	340	295 x 12 x 22	147
05300347	250	325	520	810	405	355 x 12 x 26	250
05300348	300	375	520	850	460	410 x 12 x 26	350
05300358	350	425	640	900	520	470 x 16 x 26	470
05300349	400	475	640	930	580	525 x 16 x 30	500
05300350	450	500	640	1000	640	585 x 20 x 30	790
05300351	500	515	640	1100	715	650 x 20 x 33	945

**Options:** - Indicator

- Crank operation
- Blocks
- Other flange drilling

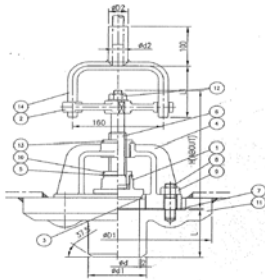


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# Surface Valves

## Cast Steel

## Surface Valve, steel



<b>Globe valves cast steel</b>		<b>Type : SFVD</b>
<b>Welding Flange connection PN 10</b>		
Suitable for: Water, oil and non aggressive liquides.		
*		
<b>Specifications</b>		
<b>Type</b>	:	<b>SFVD</b>
<b>Material</b>	:	<b>Cast steel</b>
Pressure rating	:	PN 10.
Stand	:	Cast steel
Nuts/Bolts stand	:	Cast steel SS400
Disc	:	Cast steel
Stem	:	Stainless steel AISI 304
Stem bush	:	Bronze BC6
Nut stem / disc	:	Brass
Handle fork	:	Steel SS400

## PN 10

Item no..	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L	H	L2	ØD1 / ød	ØD2 / ød2	Weight(kg)
90990014	100	120	195	160	300/100	40/25	26,5
90990015	125	120	220	160	350/125	40/25	36,5
90990016	150	120	255	160	380/150	40/25	42
90990017	200	120	300	160	435/200	55/25	55,5
90990018	250	120	335	160	490/250	55/25	70,5
90999547	300	120	365	160	560/300	55/25	102
90999548	400	120	450	240	690/380	65/40	

Also available: - With Deck stand and/or connections.

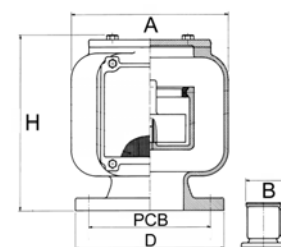


**Air Caps**

**Cast Iron**

## Air Cap

<b>Air Cap, cast iron</b>	<b>Type : M4</b>
<b>Flange connection PN10, angle form</b>	
<b>Suitable for:</b> Tank venting and water excluding. Service tank air pipes.	
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* Compact construction</li> <li>* easy maintenance</li> <li>* One piece casting for maximum lifetime</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>M4</b>
<b>Material</b>	: <b>Cast iron GG25</b>
Top cap	: Cast iron GG25
Side cover	: Cast Iron
Protecting screen	: Stainless steel
Guide pin float	: Stainless steel
Float	: PE
Seat	: Neoprene
Flanges	: PN10 acc. to DIN 2632

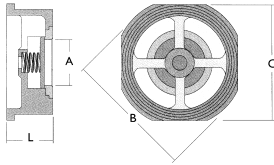


### Air Cap type M4

Article no.	DIMENSIONS				FLANGE DIMENSION		WEIGHT
	DN	H	A	B	D	PCD	kg
30108074	50	195	130	155	165	125 x 4 x 18	
30108075	65	190	170	205	185	145 x 4 x 18	
30108076	80	212	185	220	200	160 x 4 x 18	
30108077	100	260	235	285	220	180 x 8 x 18	
	125	290	280	315	250	210 x 8 x 18	
30108078	150	330	340	340	285	240 x 8 x 22	
	175	395	380	410	315	270 x 8 x 22	
30108079	200	435	430	435	340	295 x 8 x 22	
	250	520	560	560	395	350 x 12 x 22	

# Check Valves

## Check valves



**Check valve, stainless steel, wafer**

**Type : GA015**

**For flanges acc. to PN 6/10/16/25/40**

**Suitable for:** Steam, fluids and gasses.

- \* Universal mounting
- \* Is suitable as vacuum breaker
- \* Very low pressure loss and low opening pressure

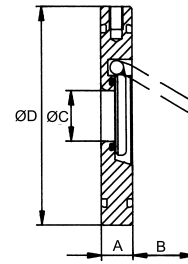
### Specifications

<b>Type</b>	: <b>GA015</b>
<b>Material</b>	: <b>AISI 316</b>
Pressure rating	: PN 40
Disc	: Stainless steel AISI 316
Seat	: Stainless steel AISI 316
Spring	: Stainless steel AISI 316
Face to face	: DIN 3202-K4
Temperature	: 140°C at 40 bar 260°C at 30 bar 400°C at 20 bar

Article no.	DIMENSIONS (mm)					OTHER
	DN	L	A	B	C	Weight (kg)
60704015	15	16	15	53	45	0,11
60704020	20	19	20	63	55	0,16
60704025	25	22	25	73	65	0,28
60704032	32	28	32	84	79	0,52
60704040	40	32	38	94	89	0,7
60704050	50	40	50	107	99	1,1
60704065	65	46	62	126	118	1,58
60704080	80	50	77	144	134	1,76
60704100	100	60	96	164	154	3,3

## Check valves

<b>Swing check valve, wafer, SS, w/spring</b>	<b>Type : CS</b>
<b>Flange connection PN 10/16</b>	
Suitable for: Fluids and gasses.	
* Very short face to face dimension * Easy to install * Horizontal - or vertical installation	
<b>Specifications</b>	
<b>Type</b>	: <b>CS</b>
<b>Material</b>	: <b>Stainless steel AISI 316</b>
<b>Pressure rating</b>	: <b>PN 16</b>
<b>Disc</b>	: <b>Stainless steel AISI 316, hinged</b>
<b>Spring</b>	: <b>Stainless steel AISI 316</b>
<b>O-ring seat</b>	: <b>EPDM</b>
<b>Flange sealing</b>	: <b>EPDM O-rings</b>
<b>Temperature</b>	: <b>-40°C to 155°C.</b>

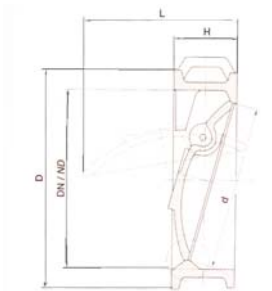


Article no.	DIMENSIONS (mm)				
	DN	A	B	ØC	ØD
60708228	40	14	30	22	95
60708229	50	14	35	32	109
60708230	65	14	48	40	129
60708231	80	14	60	54	144
60708232	100	18	78	70	164
60708233	125	18	98	92	195
60708234	150	20	117	112	220
60708465	200	22	160	154	275
60708240	250	32	200	200	332
60708498	300	38	235	240	387

Also available:

- body and disc in other materials
- O-rings in other materials
- other flange connections PN6,10,25,40,ANSI 150,300,1500

## Check valves



### Swing check valve, Wafer, steel

Type : R

#### Flange connection PN 10

**Suitable for:** Steam, water, oil and other kinds of fluids.

- \* For horizontal or vertical mounting with flow direction upwards.
- \* Compact design.
- \* Built in stop to avoid disc touching pipe wall.
- \* Designed in such a way that the disc automatically closes when mounted in horizontal position without back pressure.

#### Specifications

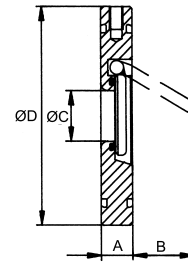
Type	: R
Material	: Steel (dimension DN 40-150 are stainless steel)
Pressure rating	: PN 10
Disc	: Steel
	: Dimension DN 40-150 are stainless steel
Seat/stem	: Stainless steel AISI 304

Article no.	DIMENSIONS (mm)				
	DN	D	d	H	L
	40	94	34	33	45
	50	107	44	43	60
	65	127	58	46	70
	80	142	72	64	90
	100	162	90	64	102
60308003	125	194	112	70	120
60308233	150	219	135	76	140
60308133	200	273	180	89	185
60308073	250	329	225	114	220
60308074	300	378	270	114	262
60308156	350	438	315	127	310
60300001	400	490	365	140	360
60308075	450	539	420	152	400
60300002	500	594	460	152	450
60300003	600	696	555	178	535
60300004	700	811	650	229	620
60300005	800	918	740	251	715
60300006	900	1018	835	275	800

Also available: - other dimensions PN6,16,25,40,64, ANSI 150lbs or 300lbs  
- larger sizes

## Check valves

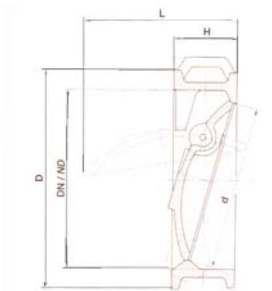
<b>Swing check valve, wafer, stainless steel</b>		<b>Type : CV</b>
<b>Flange connection PN 10/16</b>		
Suitable for: Fluids and gasses.		
* Very short face to face dimension * Easy to install * Horizontal- or vertical installation with flow direction upwards		
<b>Specifications</b>		
<b>Type</b>	: <b>CV</b>	
<b>Material</b>	: <b>Stainless steel AISI 316</b>	
<b>Pressure rating</b>	: <b>PN 16</b>	
<b>Disc</b>	: <b>Stainless steel AISI 316, hinged</b>	
<b>O-ring seat</b>	: <b>EPDM</b>	
<b>Flange sealing</b>	: <b>EPDM O-rings</b>	
<b>Temperature</b>	: <b>-40°C to 155°C.</b>	



Article no.	DIMENSIONS (mm)				
	DN	A	B	ØC	ØD
60703040	40	14	30	22	95
60703050	50	14	35	32	109
60703065	65	14	48	40	129
60703080	80	14	60	54	144
60703100	100	18	78	70	164
60703125	125	18	98	92	195
60703150	150	20	117	112	220
60703200	200	22	160	154	275
60703250	250	26	200	200	332
60703300	300	32	235	240	387
60703350	350	38	258	270	447
60703400	400	44	300	310	495
60703450	450	50	331	310	557
60703500	500	56	268	405	617
60703600	600	62	435	486	734

- Also available:**
- body and disc in other materials
  - spring loaded disc
  - O-rings in other materials
  - other flange connections PN6,10,25,40,ANSI 150,300,1500

## Check valves



**Swing check valve, wafer, stainless steel**

**Type : R**

**Flange connection PN 10**

**Suitable for:** Steam, water, oil and other kinds of liquids.

- \* For horizontal or vertical mounting with flow direction upwards.
- \* Compact design.
- \* Built in stop to avoid disc touching pipe wall.
- \* Designed in such a way that the disc automatically closes when mounted in horizontal position without back pressure.

### Specifications

**Type** : R  
**Material** : Stainless steel AISI 316  
**Pressure rating** : PN 10  
**Disc** : Stainless steel AISI 316  
**Seat/stem** : Stainless steel AISI 316

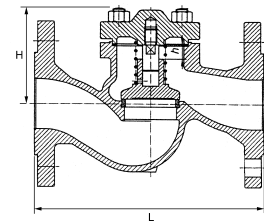
Article no.	DIMENSIONS (mm)				
	DN	D	d	H	L
60708061	40	94	34	33	45
60708062	50	107	44	43	60
60708063	65	127	58	46	70
60708064	80	142	72	64	90
60708065	100	162	90	64	102
60708066	125	194	112	70	120
60708067	150	219	135	76	140
60708068	200	273	180	89	185
60700201	250	329	225	114	220
60700202	300	378	270	114	262
60708069	350	438	315	127	310
60700203	400	490	365	140	360
60708070	450	539	420	152	400
60708071	500	594	460	152	450
60700204	600	696	555	178	535
60700205	700	811	650	229	620
60700206	800	918	740	251	715
60700207	900	1018	835	275	800

Also available: - other connections PN6,16,25,40,64, ANSI 150lbs or 300lbs  
 - larger sizes



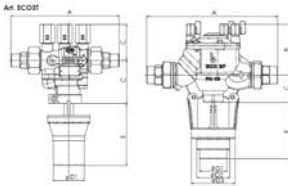
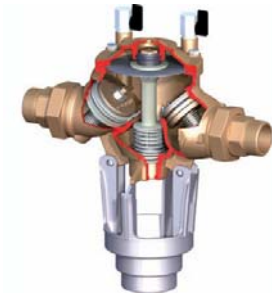
## Check valves

<b>Check valves Ductile cast iron</b>	<b>Type : 287C</b>
<b>Flanged connection PN16</b>	
<b>Suitable for:</b> Cold and hot water, steam, neutral fluids	
<ul style="list-style-type: none"> <li>* High tightness</li> <li>* Compact construction</li> <li>* No maintenance</li> <li>* Environment friendly</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>287C</b>
<b>Material</b>	: <b>EN-GJS-400-18-LT JS 1025</b>
<b>Bonnet</b>	: EN-GJS-400-18-LT
	: JS 1025
<b>Disc</b>	: 1.4021
<b>Seat ring</b>	: 1.4006
<b>Stem</b>	: 1.4021
<b>Spring</b>	: 1.4057
<b>Gasket</b>	: Graphite - CrNiSt
<b>Temperature</b>	: Max. 350°C
<b>Flanges</b>	: PN16 acc. EN 1092-2
Min. opening pressure with spring: 0,05 - 0,1 bar	



Article no.	DIMENSIONS (mm)				ØDz	PCD	Weight (kg)
	DN	L	H	h			
60500073	15	130	56	5	95	64x4x14	2,1
60500074	20	150	56	5	105	75x4x14	2,7
60500075	25	160	67	8	115	85x4x14	3,8
60500076	32	180	76	8	140	100x4x19	5,5
60500077	40	200	89	11	150	110x4x19	7,4
60500078	50	230	96	14	165	125x4x19	9,5
60500079	65	290	104	17	185	145x4x19	15,0
60500080	80	310	124	21	200	160x8x19	20,0
60500091	100	350	161	25	220	180x8x19	29,0
60500092	125	400	174	32	250	210x8x19	41,0
60500081	150	480	197	38	285	240x8x23	66,0
60500082	200	600	248	50	340	295x8x23	111
60500083	250	730	333	65	405	355x12x23	196
60500084	300	800	375	95	460	410x12x23	302

## Check valves



### Backflow Preventer

Type : ECO3T

#### Threaded connection

Suitable for: Water

- \* Controllable reduced pressure zone.
- \* Reduced pressure principle prevents potentially contaminated fluid polluting the supply system.
- \* Block and bleed.

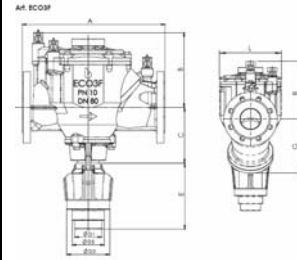
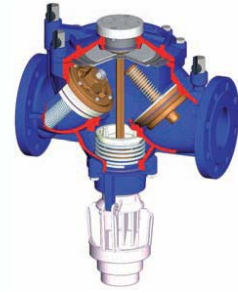
#### Specifications

<b>Type</b>	: <b>ECO3T</b>
<b>Material</b>	: <b>1/2" : OT-ADZ</b> <b>3/4" - 2" : G-CuSn5Zn5Pb5</b>
Pressure class	: PN 10
Connection material	: OT-ADZ
Gaskets	: Asbestos free
Upstream valve	: 1/2" POM - 3/4" - 2" OT-ADZ
Upstream valve seat	: 1/2" PPOM - 3/4" - 2" PPO
Downstream valve	: 1/2" POM - 3/4" - 2" OT-ADZ
Downstream valve seat	: 1/2" POM - 3/4" - 2" G-CuSn5Zn5Pb5
Valve springs	: AISI 302
Relief valve	: 1/2" OT-ADZ - 3/4" - 2" PPO
Relief valve seat	: OT-ADZ
Relief valve spring	: AISI 302
Membrane	: Neoprene + Nylon
Max. temperature	: 65°C
Connections	: Threaded UNI ISO 228/1

Article no.	DIMENSIONS (mm)				D 1/2/3	E	Weight (kg)
	DN	A	B	C			
30220001	1/2"	174	58	69	50	100	1,45
30220002	3/4"	258	80	55	63	131	4,0
30220003	1"	258	80	55	63	131	4,0
30220004	1 1/4"	340	114	75	75/90/120	154	9,0
30220005	1 1/2"	340	114	75	75/90/120	154	9,0
30220006	2"	415	135	88	75/90/120	154	13,0

## Check valves

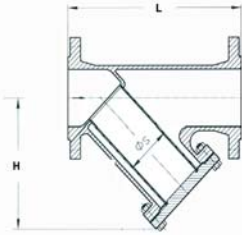
<b>Backflow Preventer</b>	<b>Type : ECO3F</b>
<b>Flanged connection</b>	
Suitable for: Water	
<p>* Controllable reduced pressure zone.          * Reduced pressure principle prevents potentially contaminated fluid polluting the supply system.</p>	
<b>Specifications</b>	
<b>Type</b>	: <b>ECO3F</b>
<b>Material</b>	: <b>GG25</b>
<b>Pressure class</b>	: <b>PN 10</b>
<b>Cover</b>	: <b>GG25</b>
<b>Upstream valve seat</b>	: <b>DN65 - DN100 PPO - DN150 G-CuSn5Zn5Pb5</b>
<b>Upstream valve shutter</b>	: <b>DN65 - DN100 PPO - DN150 G-CuSn5Zn5Pb5</b>
<b>Downstream valve seat</b>	: <b>DN65 - DN100 PPO - DN150 G-CuSn5Zn5Pb5</b>
<b>Downstream valve shutter</b>	: <b>DN65 - DN100 OT-ADZ - DN150 G-CuSn5Zn5Pb5</b>
<b>Valve springs</b>	: <b>AISI 302</b>
<b>Relief valve obturator</b>	: <b>PPO</b>
<b>Relief valve seat</b>	: <b>DN65 OT-ADZ - DN80 - DN150 AISI 304</b>
<b>Relief valve spring</b>	: <b>AISI 302</b>
<b>Membrane</b>	: <b>Neoprene + Nylon</b>
<b>Compensator</b>	: <b>OT-ADZ</b>
<b>Compensator liner</b>	: <b>PTFE+C</b>
<b>Max. temperature</b>	: <b>65°C</b>
<b>Connections</b>	: <b>Flanged UNI 2223 - DIN 2501/1 PN10/16</b>



Article no.	DIMENSIONS (mm)						Weight (kg)
	DN	A	B	C	D 1/2/3	E	
30100044	65	360	200	105	75/90/120	185	30,0
30108069	80	400	212	157	75/90/120	185	40,0
30100045	100	450	234	165	75/90/120	185	46,0
30100046	150	540	259	185	75/90/120	185	73,0

# Strainers & Mudboxes

## Strainers flanged

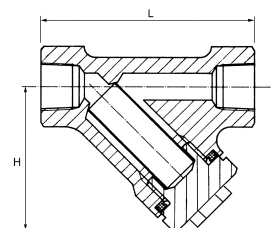


<b>Cast iron</b>	<b>Type : 821A</b>
<b>Flange connection PN16</b>	
<b>Suitable for:</b> Filtration of water, liquides and gasses.	
<ul style="list-style-type: none"> <li>* Many options concerning materials and screens.</li> <li>* Blow out plug standard.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>821A</b>
<b>Material</b>	: <b>Cast iron EN-GJL-250</b>
Bonnet	: Cast iron EN-GJL-250
Gasket	: Graphite
Plug in bonnet	: Galvanized C45
Screen	: Stainless steel AISI 304
Perforation(standard):	1,0mm up to DN50
	: 1,25mm DN65-80
	: 1,6mm DN100-400
Working pressure	: 16 bar
Working temperature:	-10°C to 120°C up to 16bar
	: -10°C to 200°C up to 12,8bar
	: -10°C to 300°C up to 9,6bar
Flanges	: DIN2533
Length	: DIN3202/F1

Article no.	DIMENSIONS (mm)				FLANGE DIMENSION		Weight (kg)
	DN	L	H	Kv(m <sup>3</sup> /h)	ØD	PCD	
50100425	15	130	90	5,7	95	65 x 4 x 14	
50100426	20	150	100	10,4	105	75 x 4 x 14	
50100427	25	160	115	16,4	115	85 x 4 x 14	
50100428	32	180	135	27,3	140	100 x 4 x 19	
50100429	40	200	150	42,0	150	110 x 4 x 19	
50100430	50	230	160	64,7	165	125 x 4 x 19	
50100431	65	290	180	96,0	185	145 x 4 x 19	
50100432	80	310	215	149	200	160 x 8 x 19	
50100433	100	350	235	223	220	180 x 8 x 19	
50100434	125	400	280	347	250	210 x 8 x 19	
50100435	150	480	320	480	285	240 x 8 x 23	
50100436	200	600	405	853	340	295 x 12 x 23	
50100437	250	730	540	1104	405	355 x 12 x 28	
50100438	300	850	680	1450	460	410 x 12 x 28	
50100439	350	980	755	1800	520	470 x 16 x 28	
50100440	400	1100	835	2200	580	525 x 16 x 31	

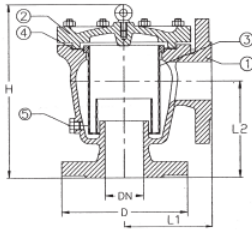
## Strainers threaded

<b>Strainer in bronze RG5</b>	<b>Type : 74A</b>
<b>Threaded ends</b>	
<b>Suitable for:</b> Steam, condensate, water, oil and gas.	
* Exchangeable filter/Other mesh size	
<b>Specifications</b>	
<b>Type</b>	: <b>74A</b>
<b>Material</b>	: <b>Bronze RG 5</b>
Pressure rating	: PN 16
Screen	: AISI 304
Gasket	: Asbestos free fibre gasket
Connections	: Female threaded acc. DIN 2999
Temperature	: 150°C.



Article no.	DIMENSIONS (mm)			CONNECTIONS	OTHER	
	Thread	Length	Hight	R	Mesh size	Weight (kg)
50100001	3/8"	56	38	3/8"	0,65	0,2
50100002	1/2"	59	40	1/2"	0,65	0,2
50100003	3/4"	67	46	3/4"	0,65	0,3
50100004	1 "	76	58	1 "	0,65	0,4
50100005	1.1/4"	92	70	1.1/4"	0,65	0,7
50100006	1.1/2"	100	80	1.1/2"	0,65	0,9
50100007	2 "	125	100	2 "	0,65	1,4

## Mudbox flanged



**Mudbox cast iron**

**Type : Angle**

**Flange connection PN10**

**Suitable for:** Suction and discharge lines for sea cooling water and bilge systems.

\*

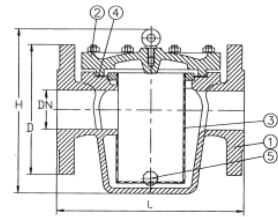
### Specifications

**Type** : Angle  
**Material** : Cast iron GG25  
**Gasket** : NBR  
**Screen** : AISI 316  
**Perforation** : 5mm up to DN65  
                   : 8mm from DN80  
**Working temperature:** -10°C to 120°C  
**Working pressure** : 4 bar  
**Flanges** : DIN2532 PN10  
**End connection** : DIN2501

Article no.	DIMENSIONS (mm)						Weight (kg)
	DN	L	H	ØD	Øg	PCD	
50100350	25	100	175	115	68	85 x 14 x 4	7,5
50100352	40	125	135	150	88	110 x 18 x 4	12,5
50100353	50	135	255	165	102	125 x 18 x 4	17,5
50108345	65	150	275	185	122	145 x 18 x 4	20
50100354	80	175	324	200	138	160 x 18 x 8	30
50104346	100	195	360	220	158	180 x 18 x 8	42,5
50100355	125	220	410	250	188	210 x 18 x 8	57,5
50100356	150	270	476	285	212	240 x 22 x 8	78
50100357	200	300	543	340	268	295 x 22 x 8	115
50100358	250	390	665	395	320	350 x 22 x 12	166
50108347	300	450	762	445	370	400 x 22 x 16	230
50100359	350	400	735	505	430	460 x 26 x 16	274
50100360	400	420/520	985	565	482	515 x 26 x 16	380

## Mudbox flanged

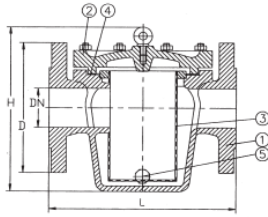
<b>Mudbox cast iron</b>	<b>Type : Straight</b>
<b>Flange connection PN10</b>	
<b>Suitable for:</b> Suction and discharge lines for sea cooling water and bilge systems.	
*	
<b>Specifications</b>	
<b>Type</b>	: <b>Straight</b>
<b>Material</b>	: <b>Cast iron GG25</b>
<b>Gasket</b>	: <b>NBR</b>
<b>Screen</b>	: <b>AISI 316</b>
<b>Perforation</b>	: <b>5mm up to DN65</b>
	: <b>8mm from DN80</b>
<b>Working temperature:</b>	: <b>-10°C to 120°C</b>
<b>Working pressure</b>	: <b>4 bar</b>
<b>Flanges</b>	: <b>DIN2532 PN10</b>
<b>End connection</b>	: <b>DIN2501</b>
<b>Length</b>	: <b>DIN3202/F1 DN25 - DN200</b>
	: <b>DIN3202/F6 DN250 - DN500</b>



Article no.	DIMENSIONS (mm)						Weight (kg)
	DN	L	H	ØD	Øg	PCD	
50100364	25	160	155	115	68	85 x 14 x 4	8,5
50100366	40	200	200	150	88	110 x 18 x 4	11,0
50100367	50	230	230	165	102	125 x 18 x 4	15
50100368	65	290	255	185	122	145 x 18 x 4	21
50100369	80	310	305	200	138	160 x 18 x 8	27
50100370	100	350	350	220	158	180 x 18 x 8	37
50100371	125	400	390	250	188	210 x 18 x 8	50
50100372	150	480	460	285	212	240 x 22 x 8	71
50100373	200	600	568	340	268	295 x 22 x 8	122
50100374	250	600	605	395	320	350 x 22 x 12	148
50100375	300	700	675	445	370	400 x 22 x 12	199
50100376	350	800	785	505	430	460 x 22 x 16	270
50100377	400	740	985	565	482	515 x 26 x 16	345
50100379	500	1100	1343	670	585	620 x 26 x 20	1070



## Mudbox flanged



Hot-galvanised steel

Type : DVS 32012

Flange connection PN10, straight form

\* Filters for small and large vessels

### Specifications

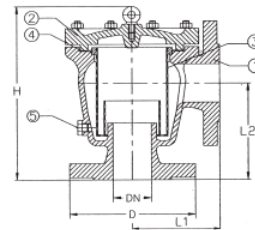
Type : DVS 32012  
 Material : Hot-galvanised steel  
 Screen : AISI 316  
 Cover fastening : Bronze RG5  
 Working temperature: max. 45°C  
 Design pressure : 16 bar  
 Flanges : DVS 32013 PN10

Class of piping system: III

Article no.	DIMENSIONS (mm)						Weight (kg)
	DN	H	H1	L	ØD	PCD	
	25	375	99	290	115	85 x 14 x 4	
	32	275	99	290	140	110 x 18 x 4	
	40	275	99	290	150	110 x 18 x 4	
	50	286	114	310	165	125 x 18 x 4	
	65	306	124	340	185	145 x 18 x 4	
50308078	80	326	134	390	200	160 x 18 x 8	
50308079	100	342	142	420	220	180 x 18 x 8	
50308080	125	362	152	470	250	210 x 18 x 8	
	150	394	169	510	285	240 x 22 x 8	
	200	428	186	640	340	295 x 22 x 8	
	250	486	216	805	395	350 x 22 x 12	
	300	542	245	880	445	400 x 22 x 12	
	350	583	258	945	505	460 x 22 x 16	
	400	665	290	1060	565	515 x 26 x 16	
	450	695	315	1160	615	565 x 26 x 20	
	500	782	345	1270	670	620 x 26 x 20	

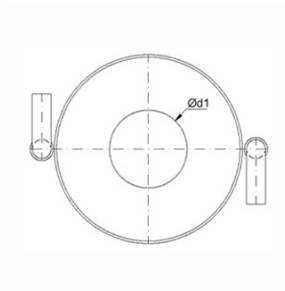
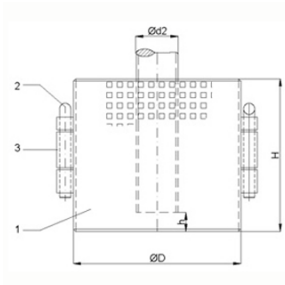
## Mudbox flanged

<b>Hot-galvanised steel</b>	<b>Type : DVS 32013</b>
<b>Flange connection PN10, angle form</b>	
* Filters for small and large vessels	
<b>Specifications</b>	
<b>Type</b>	: <b>DVS 32013</b>
<b>Material</b>	: <b>Hot-galvanised steel</b>
<b>Screen</b>	: <b>AISI 316</b>
<b>Cover fastening</b>	: <b>Bronze RG5</b>
<b>Working temperature:</b>	<b>max. 45°C</b>
<b>Design pressure</b>	: <b>16 bar</b>
<b>Flanges</b>	: <b>DVS 32013 PN10</b>
Class of piping system: III	



Article no.	DIMENSIONS (mm)							Weight (kg)
	DN	H	L2	L1	ØD	PCD		
05300290	25	350	180	144	115	85 x 14 x 4		
05300291	32	350	178	142	140	110 x 18 x 4		
05300292	40	350	180	144	150	110 x 18 x 4		
05300293	50	372	200	155	165	125 x 18 x 4		
50308073	65	392	210	170	185	145 x 18 x 4		
50308074	80	417	225	195	200	160 x 18 x 8		
50308075	100	440	240	210	220	180 x 18 x 8		
50308076	125	465	255	235	250	210 x 18 x 8		
05300294	150	500	275	255	285	240 x 22 x 8		
05300295	200	537	295	320	340	295 x 22 x 8		
05300296	250	600	330	380	395	350 x 22 x 12		
50308077	300	669	365	415	445	400 x 22 x 12		
05300297	350	798	453	445	505	460 x 22 x 16		
05300298	400	883	500	500	565	515 x 26 x 16		
05300299	450	906	525	550	615	565 x 26 x 20		
05300300	500	1156	650	650	670	620 x 26 x 20		

## Suction strainer



**Galvanized steel** **Type : Suction strainer**

**Perforated strainer**

**Suitable for:** Suction lines of the bilge pump systems.

\*

### Specifications

**Type** : Suction strainer  
**Material** : Galvanized steel  
**Spindle** : Galvanized steel  
**Hinge** : Galvanized steel  
**Perforation** : 5mm or 8mm

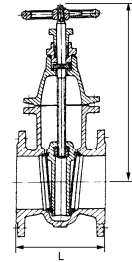
Article no.	DIMENSIONS (mm)						Weight (kg)
	DN	ØD	H	Ød1	Ød2	h	
50100412	25	125	98	30	28	10	1
50100414	40	125	98	48	44,5	12	1,5
50100415	50	150	123	60	57	15	2
50100416	65	200	160,5	80	76	22	3
50100417	80	225	200	94	89	24	5
50100418	100	275	237,5	114	108	30	7
50100419	125	340	300	138	133	38	10
50100420	150	400	362,5	165	159	45	13
50100421	200	510	470	222	216	60	16
50100422	250	600	600	280	273	80	25
50100423	300	750	700	325	318	95	35
50100424	350	860	800	374	368	110	47

# **Gate Valves**

## **Cast Steel**

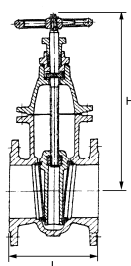
## Gate valves

<b>Gate valve, Cast iron</b>	<b>Type : P50215</b>
<b>Flanges PN10</b>	
<b>Suitable for:</b> Water, oil, gas and air.	
* Non rising stem	
<b>Specifications</b>	
<b>Type</b>	: <b>P50215</b>
<b>Material</b>	: <b>Cast iron GG-25</b>
<b>Pressure rating</b>	: <b>PN 10</b>
<b>Working pressure</b>	: <b>DN 40-150: 10 bar</b>
	: <b>DN 200-300: 6 bar</b>
<b>Bonnet</b>	: <b>Cast iron GG-25</b>
<b>Handwheel</b>	: <b>Cast iron</b>
<b>Stem</b>	: <b>SoMs59, 2.1096</b>
<b>Gate</b>	: <b>Bronze RG5</b>
<b>Seat</b>	: <b>Bronze RG5</b>
<b>Face to face</b>	: <b>DN 3202/EN 558-F4</b>
<b>Connections</b>	: <b>DIN 2532 PN 10</b>
<b>Temperature range</b>	: <b>0°C til +120°C</b>
<b>Option</b>	: <b>With indicator (Type P50315)</b>



Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHERS
	DN	L	H	ØD Flange	PCB	Weight (kg)
20152540	40	140	310	150	110 x 4 x 18	15
20152550	50	150	335	165	125 x 4 x 18	19
20152565	65	170	365	185	145 x 4 x 18	23
20152580	80	180	420	200	160 x 8 x 18	30
20152600	100	190	450	220	180 x 8 x 18	37
20152625	125	200	525	250	210 x 8 x 18	55
20152650	150	210	585	285	240 x 8 x 22	71
20152700	200	230	685	340	295 x 8 x 22	108
20152750	250	250	780	350	350 x 12 x 22	146
20152800	300	270	865	445	400 x 12 x 22	209

## Gate valves



### Gate valve, Cast iron Type : 1.019/A

**Flanges PN10**

**Suitable for:** Water, oil, gas and air.

\* Non rising stem

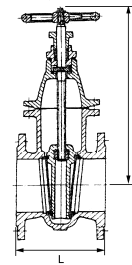
#### Specifications

<b>Type</b>	: 1.019/A
<b>Material</b>	: Cast iron GG-25
Pressure rating	: PN 10
Working pressure	: DN 40-175: 10 bar
	: DN 200-300: 6 bar
	: DN 350-500: 4 bar
	: DN 600-700: 2,5 bar
Bonnet	: Cast iron GG-25
Handwheel	: Cast iron GG-25
Stem	: CuZn35Ni
Wedge	: Cast iron GG-25
Wedge ring	: G-CuSn5ZnBb, RG5
Body ring	: G-CuSn5ZnBb, RG5
Gland packing	: Graphite
Face to face	: DN 3202 F4 / EN 558-1
Connections	: DIN 2501 PN 10 / EN1092-2
Temperature	: max. 120°C
Option	: With indicator
	: With drain plug

Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHERS
	DN	L	H	ØD Flange	PCD	
20160405	40	140	240	150	110 x 4 x 18	12,6
20160406	50	150	240	165	125 x 4 x 18	13,6
20160407	65	170	255	185	145 x 4 x 18	18
20160408	80	180	285	200	160 x 8 x 18	22,8
20160409	100	190	310	220	180 x 8 x 18	27,4
20160410	125	200	395	250	210 x 8 x 18	41,5
20160411	150	210	425	285	240 x 8 x 22	52
20160412	200	230	550	340	295 x 8 x 22	83,5
20160413	250	250	675	350	350 x 12 x 22	127
20160414	300	270	770	445	400 x 12 x 22	173
20160415	350	290	865	505	460 x 16 x 22	254
20160416	400	310	950	565	515 x 16 x 26	286
20160417	500	350	1160	670	620 x 20 x 26	515
20160418	600	390	1320	780	725 x 20 x 30	980
20160419	700	430	1520	895	840 x 24 x 30	

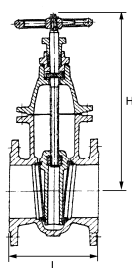
## Gate valves

<b>Gate valve, Cast iron</b>		<b>Type : 1.019/B</b>
<b>Flanges PN10</b>		
Suitable for: Water, oil, gas and air.		
* Non rising stem		
<b>Specifications</b>		
<b>Type</b>	: <b>1.019/B</b>	
<b>Material</b>	: <b>Cast iron GG-25</b>	
Pressure rating	: PN 10	
Working pressure	: DN 40-175: 10 bar	
	: DN 200-300: 6 bar	
	: DN 350-500: 4 bar	
	: DN 600-700: 2,5 bar	
Bonnet	: Cast iron GG-25	
Handwheel	: Cast iron GG-25	
Stem	: X5CrNi-18-9	
Wedge	: Cast iron GG-25	
Wedge ring	: X5CrNi-18-9	
Body ring	: X5CrNi-18-9	
Gland packing	: Graphite	
Face to face	: DN 3202 F4 / EN 558-1	
Connections	: DIN 2501 PN 10 / EN1092-2	
Temperature	: max. 120°C	
Option	: With indicator	
	: With drain plug	



Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHERS
	DN	L	H	ØD Flange	PCD	Weight (kg)
20150026	40	140	240	150	110 x 4 x 18	12,6
20150027	50	150	240	165	125 x 4 x 18	13,6
20150028	65	170	255	185	145 x 4 x 18	18
20150029	80	180	285	200	160 x 8 x 18	22,8
20150030	100	190	310	220	180 x 8 x 18	27,4
20150031	125	200	395	250	210 x 8 x 18	41,5
20150032	150	210	425	285	240 x 8 x 22	52
20150033	200	230	550	340	295 x 8 x 22	83,5
20150034	250	250	675	350	350 x 12 x 22	127
20150035	300	270	770	445	400 x 12 x 22	173
20150036	350	290	865	505	460 x 16 x 22	254
20150037	400	310	950	565	515 x 16 x 26	286
20150038	500	350	1160	670	620 x 20 x 26	515
20150039	600	390	1320	780	725 x 20 x 30	980
20150040	700	430	1520	895	840 x 24 x 30	

## Gate valves



**Gate valve, Nodular cast iron** **Type : P50328**

**Flanges PN10/16**

**Suitable for:** Water, oil, gas and air.

\* Non rising stem with indicator

### Specifications

**Type** : P50328  
**Material** : Nodular iron GGG-40.3  
**Pressure rating** : PN 10/16  
**Working pressure** : DN 40-100: 16 bar  
                           : DN 125-150: 10 bar  
                           : DN 200-300: 6 bar  
**Bonnet** : GGG-40.3  
**Handwheel** : Cast iron  
**Stem** : SoMs59, 2.1096  
**Gate** : Bronze RG5  
**Seat** : Bronze RG5

**Face to face** : DN 3202/EN 558-F4  
**Connections** : DIN 2532 PN 10

**Temperature range** : 0°C til +120°C

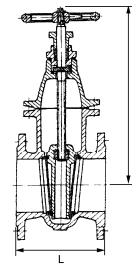
When ordering please state classification demands.

Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHERS
	DN	L	H	ØD Flange	PCB	Weight (kg)
20150001	40	140	230	150	110 x 4 x 18	13
20160002	50	150	235	165	125 x 4 x 18	15
20168055	65	170	250	185	145 x 4 x 18	19
20168061	80	180	270	200	160 x 8 x 18	23
20168062	100	190	307	220	180 x 8 x 18	30
20168057	125	200	390	250	210 x 8 x 18	42
20168063	150	210	420	285	240 x 8 x 22	53
20170003	200	230	545	340	295 x 8 x 22	82
20180004	250	250	670	350	350 x 12 x 22	130
20190005	300	270	754	445	400 x 12 x 22	154



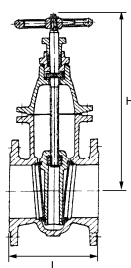
## Gate valves

<b>Gate valve, Nodular cast iron</b>		<b>Type : 1.021/B</b>
<b>Flanges PN10</b>		
Suitable for: Water, oil, gas and air.		
* Non rising stem		
<b>Specifications</b>		
<b>Type</b>	: 1.021/B	
<b>Material</b>	: Nodular cast iron GGG-40.3	
<b>Pressure rating</b>	: PN 10	
<b>Working pressure</b>	: DN 40-175: 10 bar	
	: DN 200-300: 6 bar	
	: DN 350-500: 4 bar	
	: DN 600-700: 2,5 bar	
<b>Bonnet</b>	: Nodular cast iron GGG-40.3	
<b>Handwheel</b>	: Cast iron GG-25	
<b>Stem</b>	: X5CrNi-18-9	
<b>Wedge</b>	: Nodular cast iron GGG-40.3	
<b>Wedge ring</b>	: X5CrNi-18-9	
<b>Body ring</b>	: X5CrNi-18-9	
<b>Gland packing</b>	: Graphite	
<b>Face to face</b>	: DN 3202 F4 / EN 558-1	
<b>Connections</b>	: DIN 2501 PN 10 / EN1092-2	
<b>Temperature</b>	: max. 120°C	
<b>Option</b>	: With indicator	
	: With drain plug	



Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHERS
	DN	L	H	ØD Flange	PCD	Weight (kg)
20150011	40	140	240	150	110 x 4 x 18	12,6
20150012	50	150	240	165	125 x 4 x 18	13,6
20150013	65	170	255	185	145 x 4 x 18	18
20150014	80	180	285	200	160 x 8 x 18	22,8
20150015	100	190	310	220	180 x 8 x 18	27,4
20150016	125	200	395	250	210 x 8 x 18	41,5
20150017	150	210	425	285	240 x 8 x 22	52
20150018	200	230	550	340	295 x 8 x 22	83,5
20150019	250	250	675	350	350 x 12 x 22	127
20150020	300	270	770	445	400 x 12 x 22	173
20150021	350	290	865	505	460 x 16 x 22	254
20150022	400	310	950	565	515 x 16 x 26	286
20150023	500	350	1160	670	620 x 20 x 26	515
20150024	600	390	1320	780	725 x 20 x 30	980
20150025	700	430	1520	895	840 x 24 x 30	

## Gate valves



### Gate valve, Nodular cast iron Type : 1.021/A

**Flanges PN10**

**Suitable for:** Water, oil, gas and air.

\* Non rising stem

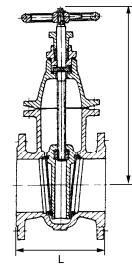
#### Specifications

<b>Type</b>	: 1.021/A
<b>Material</b>	: Nodular cast iron GGG-40.3
Pressure rating	: PN 10
Working pressure	: DN 40-175: 10 bar
	: DN 200-300: 6 bar
	: DN 350-500: 4 bar
	: DN 600-700: 2,5 bar
Bonnet	: Nodular cast iron GGG-40.3
Handwheel	: Cast iron GG-25
Stem	: CuZn35Ni
Wedge	: Nodular cast iron GGG-40.3
Wedge ring	: G-CuSn5ZnPb, RG5
Body ring	: G-CuSn5ZnPb, RG5
Gland packing	: Graphite
Face to face	: DN 3202 F4 / EN 558-1
Connections	: DIN 2501 PN 10 / EN1092-2
Temperature	: max. 120°C
Option	: With indicator
	: With drain plug

Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHERS Weight (kg)
	DN	L	H	ØD Flange	PCD	
20160005	40	140	240	150	110 x 4 x 18	12,6
20160006	50	150	240	165	125 x 4 x 18	13,6
20160007	65	170	255	185	145 x 4 x 18	18
20160008	80	180	285	200	160 x 8 x 18	22,8
20160009	100	190	310	220	180 x 8 x 18	27,4
20160010	125	200	395	250	210 x 8 x 18	41,5
20160011	150	210	425	285	240 x 8 x 22	52
20160012	200	230	550	340	295 x 8 x 22	83,5
20160013	250	250	675	350	350 x 12 x 22	127
20160014	300	270	770	445	400 x 12 x 22	173
20160015	350	290	865	505	460 x 16 x 22	254
20160016	400	310	950	565	515 x 16 x 26	286
20160017	500	350	1160	670	620 x 20 x 26	515
20160018	600	390	1320	780	725 x 20 x 30	980
20160019	700	430	1520	895	840 x 24 x 30	

## Gate valves

<b>Gate valve, Cast steel</b>		<b>Type : 1.023/B</b>
<b>Flanges PN10</b>		
Suitable for: Water, oil, gas and air.		
* Non rising stem		
<b>Specifications</b>		
<b>Type</b>	: 1.023/B	
<b>Material</b>	: Cast steel GSC-25	
<b>Pressure rating</b>	: PN 10	
<b>Working pressure</b>	: DN 40-175: 10 bar	
	: DN 200-300: 6 bar	
	: DN 350-500: 4 bar	
	: DN 600-700: 2,5 bar	
<b>Bonnet</b>	: Cast steel GSC-25	
<b>Handwheel</b>	: Cast iron GG-25	
<b>Stem</b>	: X5CrNi-18-9	
<b>Wedge</b>	: Cast steel GSC-25	
<b>Wedge ring</b>	: X5CrNi-18-9	
<b>Body ring</b>	: X5CrNi-18-9	
<b>Gland packing</b>	: Graphite	
<b>Face to face</b>	: DN 3202 F4 / EN 558-1	
<b>Connections</b>	: DIN 2501 PN 10 / EN1092-2	
<b>Temperature</b>	: max. 120°C	
<b>Option</b>	: With indicator	
	: With drain plug	

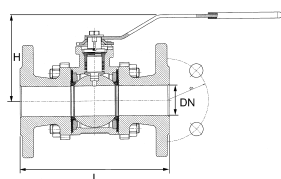


Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHERS
	DN	L	H	ØD Flange	PCD	Weight (kg)
20300060	40	140	240	150	110 x 4 x 18	14
20300061	50	150	240	165	125 x 4 x 18	15
20300062	65	170	255	185	145 x 4 x 18	19,5
20300063	80	180	285	200	160 x 8 x 18	25,7
20300064	100	190	310	220	180 x 8 x 18	33
20300065	125	200	395	250	210 x 8 x 18	45
20300066	150	210	425	285	240 x 8 x 22	60
20300067	200	230	550	340	295 x 8 x 22	92
20300068	250	250	675	350	350 x 12 x 22	145
20300069	300	270	770	445	400 x 12 x 22	193
20300070	350	290	865	505	460 x 16 x 22	280
20300071	400	310	950	565	515 x 16 x 26	320
20300072	500	350	1160	670	620 x 20 x 26	576
20300073	600	390	1320	780	725 x 20 x 30	1000
20300074	700	430	1520	895	840 x 24 x 30	

# Ball Valves

## Flanged

## Ball valves, flanged



<b>Klinger Ballostar ball valve, steel</b>		<b>Type : KHA-FL-VIII</b>
<b>Flange connection PN 40, reduced or full bore, 3-piece</b>		
<b>Suitable for:</b> Water, oil, gas, steam and Nitrogen.		
* Unique seat design where the seat ring is encapsulated on 3 sides by the stainless steel element. * ISO 5211 top flange for easy mounting of actuator or stem extension.		
<b>Specifications</b>		
<b>Type</b>	: <b>KHA-FL-VIII</b>	
<b>Material</b>	: <b>Steel 1,0619</b>	
<b>Pressure rating</b>	: PN 40	
<b>Ball</b>	: Stainless steel 1.4401 or 1.4408	
<b>Stem</b>	: Stainless steel 1.4104	
<b>Lever</b>	: Stainless steel 13% Cr	
<b>Seats</b>	: KFC: graphite reinforced PTFE encapsulated in a stainless steel element	
<b>Stem packing</b>	: KFC/Stainless steel labyrinth	
<b>Face to face</b>	: DIN 3202-F1 DIN 3202-F4 (DN 65 - DN 100 Reduced bore) DIN 3202-F5 (DN 125 Reduced bore)	
<b>Connection</b>	: Flange connection DIN 2545	
<b>Temperature</b>	: -40°C to +300°C.	

### Reduced bore

Article no.	DIMENSIONS (mm)			TOP FLANGE	CONNECTIONS (mm)		OTHER
	DN	L	H	ISO 5211	Flange diam.	PCD	Weight (kg)
10332015	20 - 15	150	80	F04	105	75 x 4 x 14	3,5
10332020	25 - 20	160	94	F04	115	85 x 4 x 14	4,5
10332025	32 - 25	180	98	F04	140	100 x 4 x 18	5,9
10332032	40 - 32	200	106	F05	150	110 x 4 x 18	8,1
10332040	50 - 40	230	113	F05	165	125 x 4 x 18	11,6
10332050	65 - 50	170	131	F07	188	145 x 8 x 18	15,3
10332065	80 - 65	180	141	F07	204	160 x 8 x 18	21,3
10332080	100 - 80	190	162	F10	235	190 x 8 x 22	29,7
10332100	125 - 100	325	176	F10	270	220 x 8 x 26	29,7

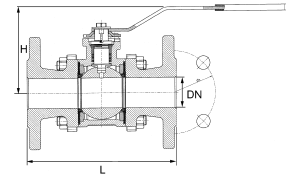
### Full bore

Article no.	DIMENSIONS (mm)			TOP FLANGE	CONNECTIONS (mm)		OTHER
	DN	L	H	ISO 5211	Flange diam.	PCD	Weight (kg)
10322010	10	120	80	F04	90	60 x 4 x 14	2,3
10322015	15	130	80	F04	95	65 x 4 x 14	2,8
10322020	20	150	94	F04	105	75 x 4 x 14	3,8
10322025	25	160	98	F04	115	85 x 4 x 18	5,1
10322032	32	180	106	F05	140	100 x 4 x 18	7,9
10322040	40	200	117	F05	150	110 x 4 x 18	9,8
10322050	50	230	131	F07	165	125 x 4 x 18	14,1
10322065	65	290	141	F07	185	145 x 8 x 18	18,3
10322080	80	310	162	F10	200	160 x 8 x 18	30,9
10322100	100	350	176	F10	235	190 x 8 x 22	39,7
10322125	125	400	211	F12	270	220 x 8 x 26	52,2

Options: - metal sealing.

## Ball valves, flanged

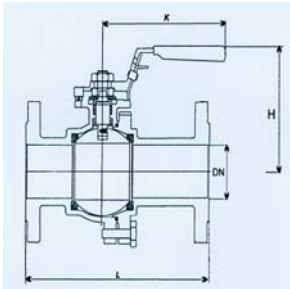
<b>Geroi F30 ball valve, stainless steel</b>		<b>Type : Geroi F30</b>
<b>Flange connection PN 40, full bore, 3-piece</b>		
Suitable for: Water, oil, gas, steam and Nitrogen.		
* .		
<b>Specifications</b>		
<b>Type</b>	: <b>Geroi F30</b>	
<b>Material</b>	: <b>Stainless steel 1.4408</b>	
Pressure rating	: PN 40	
Ball	: Stainless steel 1.4408	
Lever	: Stainless steel with plastic cover	
Seats	: PTFE	
Stem packing	: PTFE	
Face to face	: DIN 3202-F1	
Connection	: Flanges DIN 2545 PN 40	
Temperature range	: -50°C to +230°C.	



### Full bore

Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHER
	DN	L	H	Flange diam.	PCD	Weight (kg)
10700138	15	130	80	95	65 x 4 x 14	2,1
10700139	20	150	85	105	75 x 4 x 14	3,8
10700140	25	160	95	115	85 x 4 x 18	5,1
10700141	32	180	100	140	100 x 4 x 18	7,9
10700142	40	200	130	150	110 x 4 x 18	9,8
10707721	50	230	135	165	125 x 4 x 18	14,1
10700143	65	290	140	185	145 x 8 x 18	18,3
10707720	80	310	140	200	160 x 8 x 18	30,9
10108026	100	350	150	235	190 x 8 x 22	34

## Ball valves, flanged



<b>TC-242 ball valve, stainless steel</b>	<b>Type : TC 242</b>
<b>Flange connection PN 16, full bore, 2-piece</b>	
<b>Suitable for:</b> Water, oil, gas, steam and nitrogen	
* ISO 5211 top flange. * Anti static stem device. * Test according to API 598	
<b>Specifications</b>	
<b>Type</b>	: <b>TC 242</b>
<b>Material</b>	: <b>Cast steel 1.0619</b>
<b>Pressure rating</b>	: PN 16.
<b>Ball</b>	: Stainless steel AISI 304(1.4308)
<b>Spindel</b>	: Stainless steel AISI 304
<b>Lever</b>	: Stainless steel 304 plastic cover and locking device
<b>Seats</b>	: PTFE
<b>Stem packing</b>	: PTFE
<b>Face to face</b>	: DIN 3202 F4/F5
<b>Connections</b>	: Flanges PN 16 DIN 2633
<b>Temperature range</b>	: -10°C til +200°C.

## PN 16

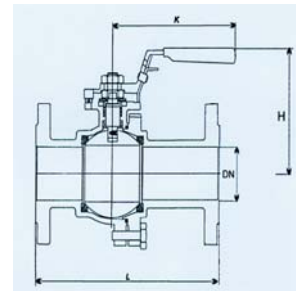
Item no..	DIMENSIONS (mm)			TOP FLANGE	CONNECTIONS (mm)		OTHER
	DN	L	H	ISO 5211	Flange diam.	PCD	Weight(kg)
10700121	15	115	76	F04	95	65 x 4 x 14	3,0
10700122	20	120	78	F04	105	75 x 4 x 14	3,8
10700123	25	125	90	F05	115	85 x 4 x 14	4,7
10700124	32	130	94	F05	140	100 x 4 x 18	6,5
10700125	40	140	124	F07	150	110 x 4 x 18	8,5
10700126	50	150	132	F07	165	125 x 4 x 18	12
10700127	65	170	170	F10	185	145 x 4 x 18	17
10700128	80	180	180	F10	200	160 x 8 x 18	23
10700129	100	190	194	F10	220	180 x 8 x 18	
10700130	125	325	225	F12	250	210 x 8 x 18	
10700131	150	350	275	F12	285	240 x 8 x 22	
10700132	200	400	340	F12	340	295 x 12 x 22	
10700133	250	450	400	F14	405	355 x 12 x 26	

Also available:

- With pneumatic or electrical actuator
- Gearbox

## Ball valves, flanged

<b>KlingerDK ball valve, stainless steel</b>		<b>Type : 2243</b>
<b>Flange connection PN 16, full bore, 2-piece</b>		
<b>Suitable for:</b> water, oil, air, gas, steam and Nitrogen.		
<ul style="list-style-type: none"> <li>* Patented stem packing</li> <li>* Antistatic, blow out proof stem, meets TA-Luft specifications.</li> <li>* ISO 5211 top flange for simple mounting of actuator or stem extensioner.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>2243</b>	
<b>Material</b>	: <b>Stainless steel AISI 316</b>	
<b>Pressure rating</b>	: Standard PN 16, options PN 10, 25 or 40	
<b>Ball</b>	: Stainless steel AISI 316(DN15 - 100), stainless steel AISI 304 (DN125-300)	
<b>Stem</b>	: Stainless steel AISI 316(DN15 - 100), stainless steel AISI 304 (DN125-300)	
<b>Lever</b>	: Stainless steel, locking device. (DN250 and 300 with gearbox)	
<b>Seats</b>	: MG1241, graphite- and glass fibre reinforced PTFE	
<b>Stem packing</b>	: Sealmaster PTFE / AISI 316 + Chevron V-ring in PTFE	
<b>Face to face</b>	: DIN 3202-F4 (DN 15 - DN 100)	
	: DIN 3202-F5 (DN 125 - DN 300)	
<b>Connections</b>	: Flanges DIN DN16 (2533)	
<b>Temperature</b>	: -29°C to +200°C.	



## PN 16

Article no.	DIMENSIONS (mm)			TOP FLANGE	CONNECTIONS (mm)		OTHER
	DN	L	H	ISO 5211	Flange diam.	PCD	Weight (kg)
10700001	15	115	82	F04	95	65 x 4 x 14	3,00
10700002	20	120	86	F04	105	75 x 4 x 14	3,75
10700003	25	125	98	F05	115	85 x 4 x 14	4,70
10700004	32	130	102	F05	140	100 x 4 x 18	6,50
10700005	40	140	119	F07	150	110 x 4 x 18	8,50
10700006	50	150	128	F07	165	125 x 4 x 18	11,30
10700007	65	170	162	F10	185	145 x 4 x 18	16,20
10700008	80	180	172	F10	200	160 x 8 x 18	22,20
10700009	100	190	197	F10	235	180 x 8 x 22	27,00
10700010	125	325	226	F10	250	210 x 8 x 18	16,20
10700011	150	350	281	F12	285	240 x 8 x 22	22,20
10700012	200	400	317	F12	340	295 x 12 x 22	56,00
	250	450	570	F14	405	355 x 12 x 26	77,00
	300	500	728	F14	460	410 x 12 x 26	134,00

**Options:** - PTFE seats acc. to FDA CFR21 177.1550  
 - "Fire-safe" execution with stem and body gasket in graphite.  
 -

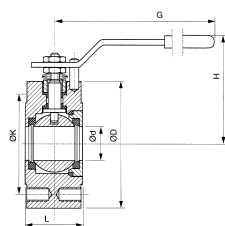
**Also available:** - Complete with pneumatic- or electric actuator  
 - Stem extensioner  
 - Vari-V regulating ball  
 - Worm gear



# **Ball Valves**

## **Wafer**

## Ball valves, wafer



**Compact ball valve, steel** **Type : 722008**

**Flange connection PN 40, full bore, wafer**

**Suitable for:** Water, oil, air, gas and nitrogen.

- \* Full bore, very short face to face.
- \* Blow out proof stem.
- \* ISO 5211 top flange for easy actuator mounting or stem extension.

### Specifications

**Type** : 722008  
**Material** : Steel A 105  
**Pressure rating** : PN 40  
**Ball** : Stainless steel AISI 304  
**Stem** : Stainless steel AISI 304  
**Lever** : Steel  
**Seat** : PTFE  
**Stem packing** : PTFE/Viton O-ring  
**Body gasket** : Viton O-ring  
**Connection** : DIN 2535 (PN 40)  
**Temperature** : -20°C to +80°C (+160°C)  
**Vacuum** : Maximum 10<sup>3</sup>torr

## PN 40

Article no.	DIMENSIONS (mm)			TOP FLANGE	CONNECTIONS (mm)		OTHER
	DN	L	H	ISO 5211	Ø D	PCD	Weight (kg)
10307215	15	35	65	F03	90	65 x 4 M12	1,3
10307220	20	40	69	F03	100	75 x 4 M12	1,9
10307225	25	46	80	F04	110	85 x 4 M12	2,7
10307232	32	54	84	F04	130	100 x 4 M16	4,2
10307240	40	64	100	F05	140	110 x 4 M16	5,7
10307250	50	82	109	F05	150	125 x 4 M16	7,5
10307265	65	103	128	F07	175	145 x 4 M16	13,2
10307080	80	122	137,5	F07	190	160 x 8 M16	18,2
10307100	100	152	156,5	F10	220	190 x 8 M22	29,5

## PN 16

Article no.	DIMENSIONS (mm)			TOP FLANGE	CONNECTIONS (mm)		OTHER
	DN	L	H	ISO 5211	Ø D	PCD	Weight (kg)
10307110	100	135	156	F10	220	180 x 8 M16	26,0

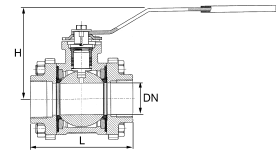
Also available: - Complete with pneumatic or electrical actuator.

# **Ball Valves**

## **Threaded**

## Ball valves, threaded

<b>Klinger Ballostar ball valve, steel</b>		<b>Type : KHA-G-VIII</b>
<b>Threaded connection, PN 40/PN 100, full bore or reduced, 3-piece</b>		
<b>Suitable for:</b> Water, oil, gas, steam and Nitrogen.		
<p>* Unique seat design where the seat ring is encapsulated on 3 sides by the stainless steel element.          * ISO 5211 top flange for easy mounting of actuator or stem extension.</p>		
<b>Specifications</b>		
<b>Type</b>	: <b>KHA-G-VIII</b>	
<b>Material</b>	: <b>Steel 1,0619</b>	
<b>Pressure rating</b>	: PN 100: 3/8" - 3/4" (1" reduced bore) PN 63: 1" - 1.1/2"(2" reduced bore) PN 40: 2"	
<b>Ball</b>	: Stainless steel 1.4401	
<b>Stem</b>	: Stainless steel 1.4104	
<b>Lever</b>	: Stainless steel 13% Cr	
<b>Seats</b>	: KFC: graphite reinforced PTFE encapsulated in a stainless steel element	
<b>Stem packing</b>	: KFC/Stainless steel labyrinth	
<b>Face to face</b>	: Reduced bore: DIN 3202 T4-M3 Full bore: DIN 3202 T4-M4	
<b>Connections</b>	: Threaded acc. to DIN 228/1	
<b>Temperature</b>	: -40°C to +300°C.	



### Reduced bore

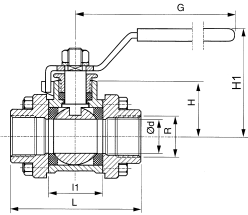
Article no.	DIMENSIONS (mm)			TOP FLANGE	OTHER
	DN	L	H	ISO 5211	Weight (kg)
10330015	3/4" - 15	80	80	F04	0,7
10330020	1 " - 20	90	94	F04	1,3
10330025	1.1/4" - 25	110	98	F04	1,9
10330032	1.1/2" - 32	120	106	F05	2,6
10330040	2 " - 40	140	113	F05	4,5

### Full bore

Article no.	DIMENSIONS (mm)			TOP FLANGE	OTHER
	DN	L	H	ISO 5211	Weight (kg)
10320010	3/8"	75	80	F04	0,7
10320015	1/2"	85	80	F04	0,8
10320020	3/4"	95	94	F04	1,5
10320025	1 "	105	98	F04	2,1
10320032	1.1/4"	120	106	F05	2,9
10320040	1.1/2"	130	113	F05	4,7
10320050	2 "	150	131	F07	7,4

Options: - metal sealing

## Ball valves, threaded



**KlangerDK ball valve, stainless steel    Type : Proball 311**

**Threaded connection BSP, PN 63, full bore, 3-piece**

**Suitable for:** Water, liquids, oil, steam and air.

- \* Anti-static, blow out proof stem.
- \* Ball with pressure balancing hole.

### Specifications

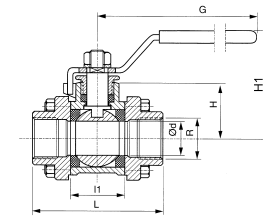
**Type** : **Proball 311**  
**Material** : **Stainless steel A351-CF8M (AISI 316)**  
**Pressure rating** : PN 63  
**Ball** : Stainless steel AISI 316  
**Stem** : Stainless steel AISI 316  
**Lever** : Stainless steel AISI 304/Vinyl  
**Seat** : MG1241  
**Stem packing** : PTFE  
  
**Connection** : BSP threaded  
**Temperature** : -20°C to +225°C.

Article no.	DIMENSIONS (mm)			
	DN	d	L	H1
10705341	1/2"	15	70,8	64,5
10705342	3/4"	20	81,5	67,4
10705343	1 "	25	90	79,1
10705344	1.1/4"	32	112,5	83,6
10705345	1.1/2"	38	126,5	92,2
10705346	2 "	50	147	100,2
10705347	2.1/2"	65	163	135,9
10705348	3 "	80	181	145,9
10700137	4 "	100	228	168

Also available: - with NPT thread

## Ball valves, threaded

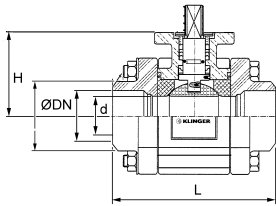
<b>KlingerDK ball valve, stainless steel    Type : Proball 311</b>	
<b>Threaded connection BSP, PN 63, full bore, 3-piece</b>	
<b>Suitable for:</b> Water, liquids, oil, steam and air.	
* Anti-static, blow out proof stem. * Ball with pressure balancing hole.	
<b>Specifications</b>	
<b>Type</b>	: <b>Proball 311</b>
<b>Material</b>	: <b>Stainless steel A351-CF8M (AISI 316)</b>
<b>Pressure rating</b>	: PN 63
<b>Ball</b>	: Stainless steel AISI 316
<b>Stem</b>	: Stainless steel AISI 316
<b>Lever</b>	: Stainless steel AISI 304/Vinyl
<b>Seat</b>	: PTFE
<b>Stem packing</b>	: PTFE
<b>Connection</b>	: BSP threaded
<b>Temperature</b>	: -20°C to +225°C.



Article no.	DIMENSIONS (mm)			
	DN	d	L	H1
10700435	1/2"	15	70,8	64,5
10700436	3/4"	20	81,5	67,4
10700437	1 "	25	90	79,1
10700438	1.1/4"	32	112,5	83,6
10700439	1.1/2"	38	126,5	92,2
10700440	2 "	50	147	100,2
10700441	2.1/2"	65	163	135,9
10700442	3 "	80	181	145,9
10700443	4 "	100	228	168

Also available: - with NPT thread

## Ball valves, threaded



**KlingerDK ball valve, stainless steel**      **Type : Probball 305**

**Threaded connection BSP, PN 63, full bore, 3-piece**

**Suitable for:** Water, liquids, oil, Steam and air.

\* Anti-static, blow out proof stem.  
\* ISO 5211 top flange and stem for direct mounting of actuator.

### Specifications

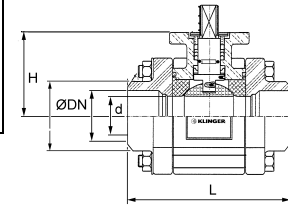
**Type** : **Probball 305**  
**Material** : **Stainless steel AISI 316**  
**Pressure rating** : **PN 63**  
**Ball** : **Stainless steel AISI 316**  
**Stem** : **Stainless steel AISI 316**  
**Seats** : **MG1241**  
**Stem packing** : **PTFE/Viton O-ring**  
**Connection** : **Threaded AISI 316**  
**Temperaturer** : **-20°C to +225°C.**

Article no.	DIMENSIONS (mm)				TOP FLANGE	Stem
	DN	d	L	H	ISO 5211	SQUARE
10705370	3/8"	12,7	64	38,8	F03/F04	9
10705371	1/2"	15	64	38,8	F03/F04	9
10705372	3/4"	20	82	45,4	F03/F04	9
10705373	1"	25	90	55,8	F04/F05	11
10705374	1-1/4"	32	112	60,2	F04/F05	11
10705375	1-1/2"	38	126	75,5	F05/F07	14
10705376	2"	50	147	83,3	F05/F07	14
10705377	2-1/2"	65	163	107,9	F07/F10	17
10705378	3"	80	181	116,6	F07/F10	17
10700134	4"	100	228	131,7	F10/F12	22

Also available: - Complete with pneumatic- or electrical actuator.

## Ball valves, threaded

<b>KlingerDK ball valve, stainless steel    Type : Proball 305</b>	
<b>Threaded connection BSP, PN 63, full bore, 3-piece</b>	
<b>Suitable for:</b> Water, liquids, oil, Steam and air.	
* Anti-static, blow out proof stem. * ISO 5211 top flange and stem for direct mounting of actuator.	
<b>Specifications</b>	
<b>Type</b>	: <b>Proball 305</b>
<b>Material</b>	: <b>Stainless steel AISI 316</b>
<b>Pressure rating</b>	: PN 63
<b>Ball</b>	: Stainless steel AISI 316
<b>Stem</b>	: Stainless steel AISI 316
<b>Seats</b>	: PTFE
<b>Stem packing</b>	: PTFE/Viton O-ring
<b>Connection</b>	: Threaded AISI 316
<b>Temperatuer</b>	: -20°C to +225°C.

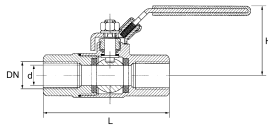


Article no.	DIMENSIONS (mm)				TOP FLANGE	Stem
	DN	d	L	H	ISO 5211	SQUARE
10700412	3/8"	12,7	64	38,8	F03/F04	9
10700413	1/2"	15	64	38,8	F03/F04	9
10700414	3/4"	20	82	45,4	F03/F04	9
10700415	1"	25	90	55,8	F04/F05	11
10700416	1-1/4"	32	112	60,2	F04/F05	11
10700417	1-1/2"	38	126	75,5	F05/F07	14
10700418	2"	50	147	83,3	F05/F07	14
10700419	2-1/2"	65	163	107,9	F07/F10	17
10700420	3"	80	181	116,6	F07/F10	17
10700421	4"	100	228	131,7	F10/F12	22

Also available: - Complete with pneumatic- or electrical actuator.



## Ball valves, threaded



**KlungerDK ball valve, stainless steel** **Type : 2006S**

**Threaded connection BSP, PN 40, full bore, 2-piece**

**Suitable for:** water, oil and air.

- \* Full bore
- \* Blow out proof stem

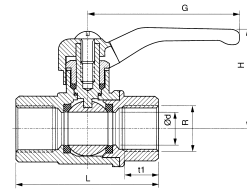
### Specifications

<b>Type</b>	: <b>2006S</b>
<b>Material</b>	: <b>Stainless steel A351-CF8M (AISI 316)</b>
<b>Pressure rating</b>	: PN 40
<b>Ball</b>	: Stainless steel A351-CF8M(AISI 316)
<b>Stem</b>	: Stainless steel AISI 316
<b>Lever</b>	: Stainless steel AISI 304/Vinyl
<b>Seats</b>	: PTFE
<b>Stem packing</b>	: PTFE
<b>Connection</b>	: Threaded acc. DIN 2999
<b>Temperature</b>	: -10°C to +200°C.

Article no.	DIMENSIONS (mm)				OTHER
	DN	d	L	H	Weight (kg)
10705602	1/4"	10	50,8	64	0,25
10705604	3/8"	12	50,8	64	0,25
10705606	1/2"	15,0	58	66	0,31
10705608	3/4"	20,0	65,6	66	0,46
10705610	1 "	25,0	78,7	80	0,77
10705612	1.1/4"	32,0	90	85	1,12
10705614	1.1/2"	38,0	105	97	1,74
10705616	2 "	50	124	105	2,65
10705618	2 1/2"	63	146,2	148	5,37
10705620	3"	76	163,7	155	7,43

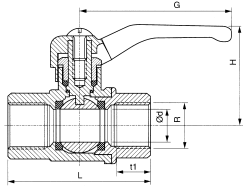
## Ball valves, threaded

<b>Ball Valve, Brass</b>	<b>Type : F.372</b>
<b>Treaded female/male, PN 25, fullbore</b>	
<b>Suitable for:</b> water, oil and air	
<ul style="list-style-type: none"> <li>* ACS french drinking water conformity</li> <li>* GOST russian water certification</li> <li>* Ucranian certification</li> <li>* IEST rumanian certification</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>F.372</b>
<b>Material</b>	: <b>Hot pres. brass EN 12165 (alloy CW 617 N), Nickel plated</b>
<b>Max.operating pres.</b>	: <b>PN 25: 1/4" - 2"</b>
<b>Ball</b>	: <b>Hard Chromed brass, polished</b>
<b>Stem</b>	: <b>Brass</b>
<b>Lever</b>	: <b>Red coated galv. steel</b>
<b>Seats</b>	: <b>PTFE</b>
<b>Stem seal 3/8"-11/4"</b>	: <b>2 x NBR o-ring.</b>
<b>Stem seal 11/2"-2"</b>	: <b>PTFE packing gland</b>
<b>Connection</b>	: <b>Female / Male according to ISO 228 cylindrical.</b>
<b>Temperature</b>	: <b>-20°C til +100°C.</b>



Item no.	Connection (mm)				OTHER	
	DN	Ø d	L	H	G	
10408104	3/8"	11	37	40	83	
10408066	1/2"	15	45	42	83	
10408093	3/4"	20	53	45	83	
10408052	1 "	25	65	63	90	
10408031	1.1/4"	32	72	67	110	
10408032	1.1/2"	35	85	70	110	
10408100	2 "	45	99	85	130	

## Ball valves, threaded



### Ball Valve, Brass

Type : F.382

Treaded female/male, PN 40, fullbore

Suitable for: water, oil and air

- \* ACS french drinking water conformity
- \* GOST russian water certification
- \* Ucrainian certification
- \* IEST Rumanian certification

### Specifications

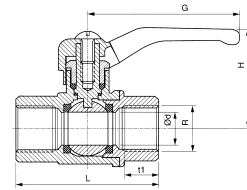
**Type** : F.382  
**Material** : Hot pres. brass EN 12165 (alloy CW 617 N), Nickel plated  
 Max.operating pres. : 40 bar  
 Ball : Hard Chromed brass, polished  
 Stem : Brass  
 Lever : Red coated galv. steel  
 Seats : PTFE  
 Stem seal : PTFE

Connection : Female / Male according to ISO 7/1 cylindrical.  
 Temperature : -30°C to +150°C.

Item no.	Connection (mm)				OTHER
	DN	Ø d	L	H	G
	1/4"	9	46	42	83
	3/8"	11	49	43	83
	1/2"	15	63	45	83
	3/4"	20	74	49	83
	1 "	25	88	65	90
	1.1/4"	32	97	68	110
	1.1/2"	40	106	81	130
	2 "	50	131	110	190

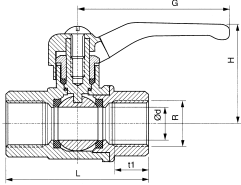
## Ball valves, threaded

<b>Ball Valve, Brass</b>	<b>Type : F.421</b>
<b>Threaded female/male for Gas, fullbore</b>	
<b>Suitable for:</b> water, oil, air and gas	
<ul style="list-style-type: none"> <li>* DVGW German certification</li> <li>* GOST russian certification</li> <li>* Ucranian certification</li> <li>*</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>F.421</b>
<b>Material</b>	: <b>Hot pres. brass EN 12165 (alloy CW 617 N), Nickel plated</b>
<b>Max.operating pres.</b>	: <b>5 (5 bar according to EN 331 standard)</b>
<b>Ball</b>	: <b>Hard Chromed brass, polished</b>
<b>Stem</b>	: <b>Brass</b>
<b>Lever</b>	: <b>Yellow coated galv. steel</b>
<b>Seats</b>	: <b>PTFE</b>
<b>Stem seal</b>	: <b>2 x O-ring as the EN 549 standard</b>
<b>Connection</b>	: <b>Female / Male according to ISO 7/1 Rp</b>
<b>Temperature</b>	: <b>-20°C til +60°C.</b>



Item no.	Connection (mm)				OTHER
	DN	Ø d	L	H	G
10400009	1/2"	15	62	45	83
10400010	3/4"	20	74	49	83
10400011	1 "	25	88	65	90
10400012	1.1/4"	32	97	68	110
10400013	1.1/2"	35	106	81	130
10400014	2 "	45	131	110	190

## Ball valves, threaded



### Ball Valve, Brass Type : F.300

**Threaded connection, PN 25, full bore**

**Suitable for:** water, oil and air.

\* High quality brass ball valve.

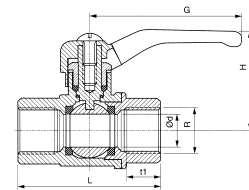
#### Specifications

<b>Type</b>	: <b>F.300</b>
<b>Material</b>	: <b>Hot pres. brass, Nickel plated.</b>
<b>Pressure rating</b>	: PN 25: 1/4" - 2", PN 40: 2 1/2" - 4"
<b>Ball</b>	: Hard chromed brass, polished
<b>Stem</b>	: Brass
<b>Lever</b>	: Red coated galv. steel
<b>Seats</b>	: PTFE
<b>Stem packing</b>	: PTFE
<b>Connection</b>	: Threaded BSP
<b>Temperature</b>	: -20°C to +120°C.

Article no.	DIMENSIONS (mm)				OTHER
	DN	Ø d	L	H	G
10401006	1/4"	9	36	39	73
10401010	3/8"	11	40	42	73
10401015	1/2"	15	49	45	83
10401020	3/4"	20	57	48	83
10401025	1 "	25	67	57	90
10401032	1.1/4"	32	80	77	110
10401040	1.1/2"	40	91	78	110
10401050	2 "	50	107	84	130
10401065	2.1/2"	63	155	128	200
10401080	3 "	74	176	133	270
10401100	4 "	100	218	151	270

## Ball valves, threaded

<b>Ball Valve, Brass</b>	<b>Type : F.300</b>
<b>Threaded / hose coupling connection, PN 25, full bore</b>	
<b>Suitable for:</b> water, oil and air.	
<ul style="list-style-type: none"> <li>* High quality brass ball valve.</li> <li>* Fitted with hose coupling on one end.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>F.300</b>
<b>Material</b>	: <b>Hot pres. brass, Nickel plated.</b>
<b>Pressure rating</b>	: PN 25
<b>Ball</b>	: Hard chromed brass, polished
<b>Stem</b>	: Brass
<b>Lever</b>	: Red coated galv. steel
<b>Seats</b>	: PTFE
<b>Stem packing</b>	: PTFE
<b>Connection</b>	: Threaded BSP / hose coupling
<b>Temperature</b>	: -20°C to +120°C.

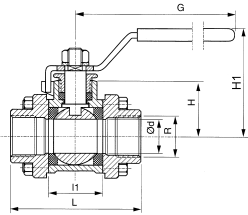


Article no.	DIMENSIONS (mm)				OTHER
	DN	Ø d	L	H	G
10400021	1/2"	15	49	45	83
10400022	3/4"	20	57	48	83
10400023	1 "	25	67	57	90
10400024	1.1/4"	32	80	77	110

**Ball Valves**

**Butt Weld**

## Ball valves, butt weld ends



**KlingerDK ball valve, steel** **Type : Proball 311C**

**Butt weld end, PN 63, full bore, 3-piece**

**Suitable for:** Water, liquids, oil, steam and air.

\* Anti-static, blow out proof stem.

### Specifications

**Type** : **Proball 311C**  
**Material** : **Steel A216 Gr WCB**  
 Pressure rating : PN 63  
 Ball : Stainless steel AISI 316  
 Stem : Stainless steel AISI 316  
 Lever : Stainless steel AISI 304/Vinyl  
 Seats : MG1241  
 Stem packing : PTFE

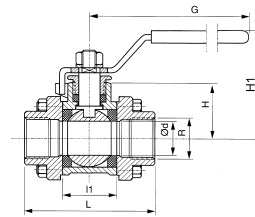
Connection : Butt weld end A216 Gr WCB  
 Temperature : -20°C to +225°C.

Article no.	DIMENSIONS (mm)			
	DN	d	L	H1
10705330	10	12,7	70	55,5
10705331	15	15	75	64,5
10705332	20	20	90	67,4
10705333	25	25	100	79,1
10705334	32	32	110	83,6
10705335	40	38	125	92,2
10705336	50	50	150	100,2
10705337	65	65	190	135,9
10705338	80	80	220	145,9
10705339	100	100	270	168



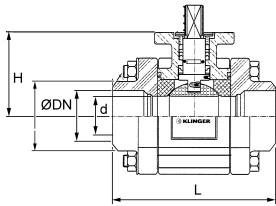
## Ball valves, butt weld ends

<b>KlingerDK ball valve, steel</b>		<b>Type : Proball 311C</b>	
<b>Butt weld end, PN 63, full bore, 3-piece</b>			
<b>Suitable for:</b> Water, liquids, oil, steam and air.			
* Anti-static, blow out proof stem.			
<b>Specifications</b>			
<b>Type</b>	:	<b>Proball 311C</b>	
<b>Material</b>	:	<b>Steel A216 Gr WCB</b>	
<b>Pressure rating</b>	:	PN 63	
<b>Ball</b>	:	Stainless steel AISI 316	
<b>Stem</b>	:	Stainless steel AISI 316	
<b>Lever</b>	:	Stainless steel AISI 304/Vinyl	
<b>Seats</b>	:	PTFE	
<b>Stem packing</b>	:	PTFE	
<b>Connection</b>	:	Butt weld end A216 Gr WCB	
<b>Temperature</b>	:	-20°C to +225°C.	



Article no.	DIMENSIONS (mm)			
	DN	d	L	H1
10700454	10	12,7	70	55,5
10700455	15	15	75	64,5
10700456	20	20	90	67,4
10700457	25	25	100	79,1
10700458	32	32	110	83,6
10700459	40	38	125	92,2
10700460	50	50	150	100,2
10700461	65	65	190	135,9
10700462	80	80	220	145,9
10700463	100	100	270	168

## Ball valves, butt weld ends



**KlingerDK ball valve, steel** **Type : Probball 305C**

**Butt weld end, PN 63, full bore, 3-piece**

**Suitable for:** Water, liquids, oil, steam and air.

\* Anti-static, blow out proof stem.  
\* ISO 5211 top flange and stem for direct mounting of actuator.

### Specifications

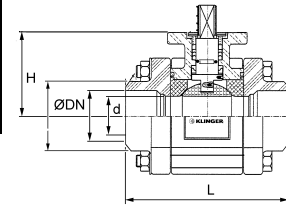
**Type** : **Probball 305C**  
**Material** : **Steel A216 Gr WCB**  
**Pressure rating** : PN 63  
**Ball** : Stainless steel AISI 316  
**Stem** : Stainless steel AISI 316  
**Saets** : MG1241  
**Stem packing** : PTFE/Viton O-ring  
**Connection** : Butt weld end A216 Gr WCB  
**Temperature** : -20°C to +225°C.

Article no.	DIMENSIONS (mm)				TOP FLANGE	STEM
	DN	d	L	H	ISO 5211	Square
10705360	10	12,7	70	38,8	F03/F04	9
10705361	15	15	75	38,8	F03/F04	9
10705362	20	20	90	45,4	F03/F04	9
10705363	25	25	100	55,8	F04/F05	11
10705364	32	32	110	60,2	F04/F05	11
10705365	40	38	125	75,5	F05/F07	14
10705366	50	50	150	83,3	F05/F07	14
10705367	65	65	190	107,9	F07/F10	17
10705368	80	80	220	116,6	F07/F10	17
10705369	100	100	270	131,7	F10/F12	22

Also available: - complete with pneumatic- or electric actuator.

## Ball valves, butt weld ends

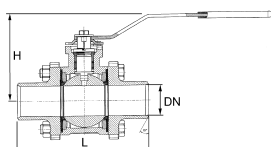
<b>KlingerDK ball valve, steel</b>	<b>Type : Proball 305C</b>
<b>Butt weld end, PN 63, full bore, 3-piece</b>	
<b>Suitable for:</b> Water, liquids, oil, steam and air.	
* Anti-static, blow out proof stem. * ISO 5211 top flange and stem for direct mounting of actuator.	
<b>Specifications</b>	
<b>Type</b>	: <b>Proball 305C</b>
<b>Material</b>	: <b>Steel A216 Gr WCB</b>
<b>Pressure rating</b>	: <b>PN 63</b>
<b>Ball</b>	: <b>Stainless steel AISI 316</b>
<b>Stem</b>	: <b>Stainless steel AISI 316</b>
<b>Seats</b>	: <b>PTFE</b>
<b>Stem packing</b>	: <b>PTFE/Viton O-ring</b>
<b>Connection</b>	: <b>Butt weld end A216 Gr WCB</b>
<b>Temperature</b>	: <b>-20°C to +225°C.</b>



Article no.	DIMENSIONS (mm)				TOP FLANGE	STEM
	DN	d	L	H	ISO 5211	Square
10700423	10	12,7	70	38,8	F03/F04	9
10700424	15	15	75	38,8	F03/F04	9
10700425	20	20	90	45,4	F03/F04	9
10700426	25	25	100	55,8	F04/F05	11
10700427	32	32	110	60,2	F04/F05	11
10700428	40	38	125	75,5	F05/F07	14
10700429	50	50	150	83,3	F05/F07	14
10700430	65	65	190	107,9	F07/F10	17
10700431	80	80	220	116,6	F07/F10	17
10700432	100	100	270	131,7	F10/F12	22

Also available: - complete with pneumatic- or electric actuator.

## Ball valves, butt weld ends



<b>Klinger Ballostar ball valve, steel</b>		<b>Type : KHA-SK-VIII</b>
<b>Butt weld end short, PN 40/PN 100, reduced or full bore, 3-piece</b>		
Suitable for: Water, oil, gas, steam and Nitrogen.		
<p>* Unique seat design where the seat ring is encapsulated on 3 sides by the stainless steel element.</p> <p>* ISO 5211 top flange for easy mounting of actuator or stem extension.</p>		
<b>Specifications</b>		
Type	:	<b>KHA-SK-VIII</b>
Material	:	<b>Steel A216 Gr WCB</b>
Pressure rating	:	PN 100: DN 10 - DN 20 (DN 25 reduced bore) PN 63: DN 25 - DN 40 (DN 50 reduced bore) PN 40: DN 50 - DN 125
Ball	:	Stainless steel AISI 316 Stainless steel A351-CF8M from DN 65
Stem	:	Stainless steel AISI 430F
Lever	:	Stainless steel 13% Cr
Seats	:	KFC: graphite reinforced PTFE encapsulated in a stainless steel element
Stem packing	:	KFC/Stainless steel labyrinth
Face to face	:	DIN 3202-S10 (DN 10 - DN 40) ANSI B 16.10 class 300 (DN 50 - DN 125)
Connection	:	Butt weld end DIN 3239
Temperature	:	-40°C to +300°C.

### Reduced bore

Article no.	DN	DIMENSIONS (mm)			TOP FLANGE	OTHER
		L	H	ISO 5211	Weight (kg)	
10331015	20 - 15	90	80	F04	0,8	
10331020	25 - 20	100	94	F04	1,4	
10331025	32 - 25	110	98	F04	2,1	
10331032	40 - 32	125	106	F05	2,9	
10331040	50 - 40	216	113	F05	5,0	

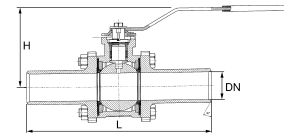
### Full bore

Article no.	DN	DIMENSIONS (mm)			TOP FLANGE	OTHER
		L	H	ISO 5211	Weight (kg)	
10321010	10	70	80	F04	0,6	
10321015	15	75	80	F04	0,8	
10321020	20	90	94	F04	1,4	
10321025	25	100	98	F04	1,9	
10321032	32	110	106	F05	2,7	
10321040	40	125	114	F05	4,6	

Options: - metal sealing  
- complete with pneumatic- or electric actuator

## Ball valves, butt weld ends

<b>Klinger Ballostar ball valve, steel</b>		<b>Type : KHA-SL-VIII</b>
<b>Butt Weld end long, PN 40/PN 100, reduced or fullbore, 3-piece</b>		
<b>Suitable for:</b> Water, oil, gas, steam and Nitrogen.		
<p>* Unique seat design where the seat ring is encapsulated on 3 sides by the stainless steel element.          * ISO 5211 top flange for easy mounting of actuator or stem extension.</p>		
<b>Specifications</b>		
<b>Type</b>	: <b>KHA-SL-VIII</b>	
<b>Material</b>	: <b>Steel A216 Gr WCB</b>	
<b>Pressure rating</b>	: PN 100: DN 10 - DN 20 (DN 25 reduced bore) PN 63: DN 25 - DN 40 (DN 50 reduced bore) PN 40: DN 50 - DN 125	
<b>Ball</b>	: Stainless steel AISI 316 Stainless steel A351-CF8M from DN 65	
<b>Stem</b>	: Stainless steel AISI 430F	
<b>Lever</b>	: Stainless steel 13% Cr	
<b>Seats</b>	: KFC: graphite reinforced PTFE encapsulated in a stainless steel element	
<b>Stem packing</b>	: KFC/stainless steel labyrinth	
<b>Face to face</b>	: DIN 3202-S10 (DN 10 - DN 40) ANSI B 16.10 class 300 (DN 50 - DN 125)	
<b>Connection</b>	: Long butt weld end DIN 3239	
<b>Temperature</b>	: -40°C to +300°C.	



### Reduced bore

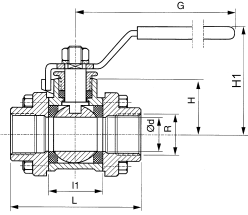
Article no.	DIMENSIONS (mm)			TOP FLANGE	OTHER
	DN	L	H	ISO 5211	Weight (kg)
10334015	20 - 15	270	80	F04	1,0
10334020	25 - 20	270	94	F04	1,6
10334025	32 - 25	270	98	F04	2,3
10334032	40 - 32	270	106	F05	3,2
10334040	50 - 40	216	113	F05	5,7
10334050	65 - 50	241	131	F07	9,1
10334065	80 - 65	282	141	F07	14,4
10334080	100 - 80	305	162	F10	24,1

### Full bore

Article no.	DIMENSIONS (mm)			TOP FLANGE	OTHER
	DN	L	H	ISO 5211	Weight (kg)
10321110	10	270	80	F04	0,7
10321042	15	270	80	F04	0,9
10321120	20	270	94	F04	1,5
10321125	25	270	98	F04	2,1
10321132	32	270	106	F05	2,3
10321041	40	270	114	F05	4,8
10321050	50	216	131	F07	8,3
10321065	65	241	141	F07	12,5
10321080	80	282	162	F10	22,8
10321100	100	305	176	F10	33,5
10321126	125	356	211	F12	42,0

**Options:** - metal seal  
 - complete with pneumatic- or electric actuator.

## Ball valves, butt weld ends



**KlingerDK ball valve, stainless steel**      **Type : Proball 311**

**Butt weld end, PN 63, full bore, 3-piece**

**Suitable for:** Water, liquids, oil, steam and air.

\* Anti-static, blow out proof stem.

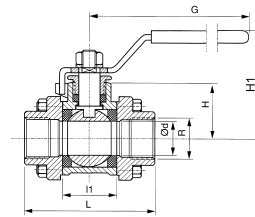
### Specifications

**Type** : **Proball 311**  
**Material** : **Stainless steel AISI 316**  
**Pressure rating** : PN 63  
**Ball** : Stainless steel AISI 316  
**Stem** : Stainless steel AISI 316  
**Lever** : Stainless steel AISI 304/Vinyl  
**Seat** : MG1241  
**Stem packing** : PTFE  
  
**Connection** : Butt weld end AISI 316L  
  
**Temperature** : -20°C to +225°C.

Article no.	DIMENSIONS (mm)			
	DN	d	L	H1
10705350	10	12,7	70	55,5
10705351	15	15	75	64,5
10705352	20	20	90	67,4
10705353	25	25	100	79,1
10705354	32	32	110	83,6
10705355	40	38	125	92,2
10705356	50	50	150	100,2
10705357	65	65	190	135,9
10705358	80	80	220	145,9
10705359	100	100	270	168

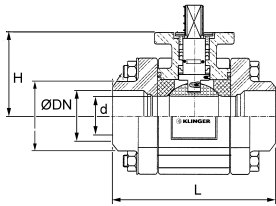
## Ball valves, butt weld ends

<b>KlingerDK ball valve, stainless steel    Type : Proball 311</b>	
<b>Butt weld end, PN 63, full bore, 3-piece</b>	
<b>Suitable for:</b> Water, liquids, oil, steam and air.	
* Anti-static, blow out proof stem.	
<b>Specifications</b>	
<b>Type</b>	: <b>Proball 311</b>
<b>Material</b>	: <b>Stainless steel AISI 316</b>
<b>Pressure rating</b>	: <b>PN 63</b>
<b>Ball</b>	: <b>Stainless steel AISI 316</b>
<b>Stem</b>	: <b>Stainless steel AISI 316</b>
<b>Lever</b>	: <b>Stainless steel AISI 304/Vinyl</b>
<b>Seat</b>	: <b>PTFE</b>
<b>Stem packing</b>	: <b>PTFE</b>
<b>Connection</b>	: <b>Butt weld end AISI 316L</b>
<b>Temperature</b>	: <b>-20°C to +225°C.</b>



Article no.	DIMENSIONS (mm)			
	DN	d	L	H1
10700444	10	12,7	70	55,5
10700445	15	15	75	64,5
10700446	20	20	90	67,4
10700447	25	25	100	79,1
10700448	32	32	110	83,6
10700449	40	38	125	92,2
10700450	50	50	150	100,2
10700451	65	65	190	135,9
10700452	80	80	220	145,9
10700453	100	100	270	168

## Ball valves, butt weld ends



**KlingerDK ball valve, stainless steel**      **Type : Probball 305**

**Butt weld end, PN 63, full bore, 3-piece**

**Suitable for:** Water, liquid, oil, steam and air.

\* Anti-static, blow out proof stem.  
\* ISO 5211 top flange and stem for direct mounting of actuator.

### Specifications

**Type** : **Probball 305**  
**Material** : **Stainless steel AISI 316**  
**Pressure rating** : **PN 63**  
**Ball** : **Stainless steel AISI 316**  
**Stem** : **Stainless steel AISI 316**  
**Seat** : **MG1241**  
**Stem packing** : **PTFE/Viton O-ring**  
**Connection** : **Butt weld end AISI 316L**  
**Temperature** : **-20°C to +225°C.**

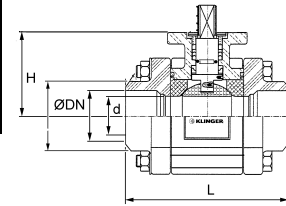
Article no.	DIMENSIONS (mm)				TOP FLANGE	STEM
	DN	d	L	H	ISO 5211	SQUARE
10705380	10	12,7	70	38,8	F03/F04	9
10705381	15	15	75	38,8	F03/F04	9
10705382	20	20	90	45,4	F03/F04	9
10705383	25	25	100	55,8	F04/F05	11
10705384	32	32	110	60,2	F04/F05	11
10705385	40	38	125	75,5	F05/F07	14
10705386	50	50	150	83,3	F05/F07	14
10705387	65	65	190	107,9	F07/F10	17
10705388	80	80	220	116,6	F07/F10	17
10705389	100	100	270	131,7	F10/F12	22

Also available: - complete with pneumatic- or electric actuator.



## Ball valves, butt weld ends

<b>KlingerDK ball valve, stainless steel    Type : Proball 305</b>	
<b>Butt weld end, PN 63, full bore, 3-piece</b>	
<b>Suitable for:</b> Water, liquid, oil, steam and air.	
* Anti-static, blow out proof stem. * ISO 5211 top flange and stem for direct mounting of actuator.	
<b>Specifications</b>	
<b>Type</b>	: <b>Proball 305</b>
<b>Material</b>	: <b>Stainless steel AISI 316</b>
Pressure rating	: PN 63
Ball	: Stainless steel AISI 316
Stem	: Stainless steel AISI 316
Seat	: PTFE
Stem packing	: PTFE/Viton O-ring
Connection	: Butt weld end AISI 316L
Temperature	: -20°C to +225°C.



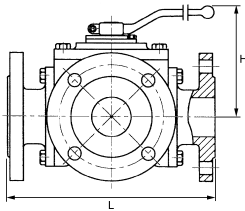
Article no.	DIMENSIONS (mm)				TOP FLANGE	STEM
	DN	d	L	H	ISO 5211	SQUARE
10700401	10	12,7	70	38,8	F03/F04	9
10700402	15	15	75	38,8	F03/F04	9
10700403	20	20	90	45,4	F03/F04	9
10700404	25	25	100	55,8	F04/F05	11
10700405	32	32	110	60,2	F04/F05	11
10700406	40	38	125	75,5	F05/F07	14
10700407	50	50	150	83,3	F05/F07	14
10700408	65	65	190	107,9	F07/F10	17
10700409	80	80	220	116,6	F07/F10	17
10700410	100	100	270	131,7	F10/F12	22

Also available: - complete with pneumatic- or electric actuator.

# Ball Valves

## 3-Way

## Ball valves, 3-way, flanged



**KlingerDK 3-way ball valve, steel** **Type : 30M**

**Flange connection PN 16, Full bore, T- or L-bore**

**Suitable for:** Water, oil, air, gas and Nitrogen.

- \* Patented stem packing
- \* Antistatic, blow out proof stem, meets TA-Luft specifications.
- \* ISO 5211 top flange for easy mounting of actuator or stem extension.
- \* Standard quarter turn.

### Specifications

**Type** : 30M  
**Material** : Steel A216 Gr WCB  
 Pressure rating : PN 16  
 Ball : Massive stainless steel AISI 316  
 Stem : Stainless steel AISI 316  
 Lever : T-grip AISI 304  
 Seat : RPTFE  
 Prim. stem packing : Sealmaster, combination of AISI 316 / PFA-teflon  
 Sek. stem packing : PTFE V-Chevron  
 Connection : Flanged PN16 (DIN 2533)  
 Temperature : -30°C to +200°C.

### T-bore

Article no.	DIMENSIONS (mm)			TOP FLANGE	CONNECTIONS (mm)		OTHER
	DN	Length	Height	ISO 5211	Flange diam.	PCD	Weight (kg)
10304114	50	230	137	F07	165	125 x 4 x 18	
10304116	65	290	162	F10	185	145 x 4 x 18	
10304118	80	310	186	F10	200	160 x 8 x 18	
10304120	100	350	213	F10	220	180 x 8 x 18	
10304124	150	480	280	F12	285	240 x 8 x 22	

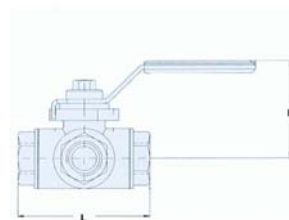
### L-bore

Article no.	DIMENSIONS (mm)			TOP FLANGE	CONNECTIONS (mm)		OTHER
	DN	Length	Height	ISO 5211	Flange diam.	PCD	Weight (kg)
10302114	50	230	137	F07	165	125 x 4 x 18	
10302116	65	290	162	F10	185	145 x 4 x 18	
10302118	80	310	186	F10	200	160 x 8 x 18	
10302120	100	350	213	F10	220	180 x 8 x 18	
10302124	150	480	280	F12	285	240 x 8 x 22	

**Also available:** - Flanged PN 25/40, ANSI 150/300, JIS10/20K  
 - 4-way ball valve with T-, L- or X-bore

## KlingerDK ball valve 3-way, threaded

<b>KlingerDK ball valve 3-way, stainless steel</b>		<b>Type : 9241</b>
<b>Inside threaded, T- or L-bore ball</b>		
<b>Suitable for:</b> Water, oil, air, gas and Nitrogen.		
<ul style="list-style-type: none"> <li>* Blow out proof stem.</li> <li>* ISO 5211 top flange for easy aktuator mounting.</li> <li>* Investment casting.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>9241</b>	
<b>Material</b>	: <b>Stainless steel AISI 316</b>	
Pressure rating	: PN 50	
Ball	: Stainless steel AISI 316	
Stem	: Stainless steel AISI 316	
Lever	: Lockable, stainless steel w/plastic cover	
Seats	: RPTFE	
Stem packing	: RPTFE	
Connections	: Inside threaded acc. to BSP	
Temperature	: -30°C to +200°C.	



### T-bore

Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	Dimension	ø(d) bore	L	H	F	ISO 5211	Weight (kg)
10716103	3/8"	11	68,5	58	35	F04	
10716104	1/2"	12,7	75	61	40	F04	
10716106	3/4"	16	86,5	74	46	F05	
10716108	1"	20	103	81	53	F05	
10716110	1 1/4"	25	115	88	58	F05	
10716112	1 1/2"	32	125	104	64	F07	
10716114	2"	38,1	146	110	75	F07	

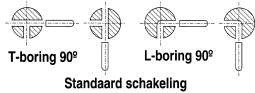
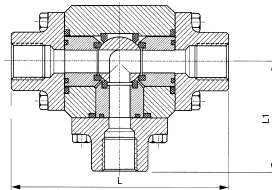
### L-bore

Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	Dimension	ø(d) bore	L	H	F	ISO 5211	Weight (kg)
10717103	3/8"	11	68,5	58	35	F04	
10717104	1/2"	12,7	75	61	40	F04	
10717106	3/4"	16	86,5	74	46	F05	
10717108	1"	20	103	81	53	F05	
10717110	1 1/4"	25	115	88	58	F05	
10717112	1 1/2"	32	125	104	64	F07	
10717114	2"	38,1	146	110	75	F07	

Also available:

- NPT thread,
- 1/4" thread

## KlingerDK ball valve 3-way, threaded



Standaard schakeling

**KlingerDK ball valve 3-way, stainless steel** Type : 33M

**Threaded connection, PN 60, reduced bore, T- or L-bore**

**Suitable for:** water, oil, air, gas and nitrogen.

- \* Patented stem packing.
- \* Antistatic, blow out proof stem, TA-Luft approved.
- \* ISO 5211 top flange for easy actuator mounting or stem extension.
- \* Standard with 90° rotation.

### Specifications

**Type** : 33M  
**Material** : Stainless steel ASTM A351 CF8M  
**Pressure rating** : PN 63  
**Ball** : Stainless steel AISI 316  
**Stem** : Stainless steel AISI 316  
**Lever** : Stainless steel w/plastic sleeve, locking device  
**Seats** : RPTFE  
**Prim. stem packing** : Sealmaster, combination of AISI 316 / PFA-teflon  
**Sek. stem packing** : PTFE V-Chevron  
**Connection** : Inside threaded BSP  
**Temperature** : -30°C to +200°C.

### T-bore

Article no.	DIMENSIONS				TOP FLANGE	OTHER
	DN	L	L1	H	ISO 5211	Weight (kg)
10717501	1/2"	71	35,5	63,5	F04	
10717502	3/4"	85	42,5	82	F04	
10717503	1 "	90,8	45,4	86	F05	
10717504	1.1/4"	103	51,5	98	F05	
10717505	1.1/2"	141	70,5	100	F07	
10717506	2 "	156	78	116	F07	

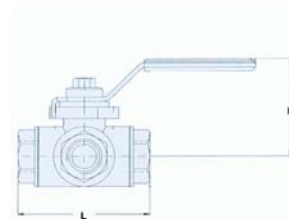
### L-bore

Article no.	DIMENSIONS				TOP FLANGE	OTHER
	DN	L	L1	H	ISO 5211	Weight (kg)
10717401	1/2"	71	35,5	63,5	F04	
10717402	3/4"	84,5	42,5	82	F04	
10717403	1 "	90,8	45,4	86	F05	
10717404	1.1/4"	103	51,5	98	F05	
10717405	1.1/2"	141	70,5	100	F07	
10717406	2 "	156	78	116	F07	

- Also available:
- Full bore 3/8" to 1 1/2"
  - Pneumatic or electrical actuator
  - Steel A216 Gr. WCB.

## KlingerDK ball valve 3-way, threaded

<b>3-way ball valve, brass</b>		<b>Type : Ball-o-top</b>
<b>Threaded connection, T- or L-bore ball, VT2000 or VL2000</b>		
Suitable for: Water, oil and air.		
* Blow out proof stem.		
<b>Specifications</b>		
<b>Type</b>	: <b>Ball-o-top</b>	
<b>Material</b>	: <b>Nickel plated brass</b>	
<b>Pressure rating</b>	: <b>PN 16</b>	
<b>Ball</b>	: <b>Nickel plated polished</b>	
<b>Stem</b>	: <b>Nickel plated brass</b>	
<b>Lever</b>	: <b>Painted aluminium, colour yellow</b>	
<b>Seat</b>	: <b>Glass fibre reinforced PTFE</b>	
<b>Stem packing</b>	: <b>Glass fibre reinforced PTFE</b>	
<b>connection</b>	: <b>Inside threaded acc. to DIN 2999</b>	
<b>Temperature</b>	: <b>-30°C to +150°C.</b>	



### T-bore

Article no.	DIMENSIONS				TOP FLANGE	OTHER
	DN	L	L1	H	G	Weight (kg)
10402006	1/4"	52	56,7	47,5	110	
10402010	3/8"	52	56,7	47,5	110	
10402015	1/2"	66	59,5	50	110	
10402020	3/4"	76	75,0	62,5	130	
10402025	1 "	93	79,0	67	130	
10402032	1.1/4"	108	91,0	82	159	
10402040	1.1/2"	126	100,5	88,5	159	
10402050	2 "	145	181,0	109	188	

### L-bore

Varenr.	DIMENSIONS				TOP FLANGE	OTHER
	DN	L	L1	H	G	Vægt (kg)
10404006	1/4"	52	56,7	47,5	110	
10404010	3/8"	52	56,7	47,5	110	
10404015	1/2"	66	59,5	50	110	
10404020	3/4"	76	75,0	62,5	130	
10404025	1 "	93	79,0	67	130	
10404032	1.1/4"	108	91,0	82	159	
10404040	1.1/2"	126	100,5	88,5	159	
10404050	2 "	145	181,0	109	188	

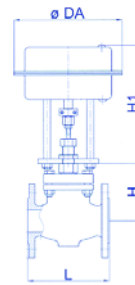
Also available: - With pneumatic or electric actuator,  
- NPT threaded.

# Control Valves

## 2-Way

## Control Valves

<b>Control Valves, NC, Cast iron</b>		<b>Type : 2000AR</b>
<b>Flanged PN 16. Pneumatic Spring Close</b>		
<b>Suitable for:</b> Steam, water, cooling liquide, non aggressive liquide and gasses		
* Steam, water, cooling liquide, non aggressive liquide and gasses		
<b>Specifications</b>		
<b>Type</b>	: <b>2000AR</b>	
<b>Material</b>	: <b>Cast iron EN-GJL-250</b>	
<b>Pressure rating</b>	: <b>PN 16</b>	
<b>Bonnet</b>	: <b>C40 steel, nickel plated</b>	
<b>Seat</b>	: <b>Stainless steel AISI316. Option: Stellite.</b>	
<b>Plug</b>	: <b>Stainless steel AISI316. Option: Stellite.</b>	
<b>Stem</b>	: <b>Stainless steel AISI316.</b>	
<b>Packing</b>	: <b>85% PTFE + 15% Graphite ≤200°C (Standard)</b>	
	: <b>Graphite for higher temperatures</b>	
	: <b>100% PTFE</b>	
<b>Actuator</b>	: <b>Steel w/coating</b>	
	: <b>EPDM diaphragm</b>	
	: <b>Yoke GGG50 w/coating</b>	
	: <b>Pneumatic connections: 1/8" ISO 7 Rp</b>	
<b>Control signals</b>	: <b>3-15psi, 6-18psi eller 6-30psi. (Max 2,5 bar).</b>	
<b>Face to Face</b>	: <b>DIN 3202-F1</b>	
<b>Connection</b>	: <b>DIN PN16 (2533)</b>	
<b>Temperature</b>	: <b>-10°C to +120°C ≤ 16 bar</b>	
	: <b>+200°C ≤ 13 bar</b>	
<b>Options</b>	: <b>Finned bonnet ≥200°C.</b>	
	: <b>Extended bonnet ≤-5°C</b>	
	: <b>Reduced bore, microflow, low noise and bellows sealed.</b>	



Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHER
	DN (Kvs)	L	H	Flange diam.	PCB	
97903813	15 (3,4)	130	49	95	65 x 4 x 14	
97903814	20 (6,6)	150	110	105	75 x 4 x 14	
97903815	25 (10,8)	160	115	115	85 x 4 x 14	
97903816	32 (17)	180	125	140	100 x 4 x 18	
97903817	40 (20,5)	200	130	150	110 x 4 x 18	
97903818	50 (43)	230	135	165	125 x 4 x 18	
97903819	65 (60,5)	290	155	185	145 x 4 x 18	
97903820	80 (75,2)	310	160	200	160 x 8 x 18	
97903821	100 (102)	350	175	220	180 x 8 x 18	

### Actuator types

Article no.	DIMENSIONS			Article no.	DIMENSIONS		
	Actuator type	øDa (mm)	H1 (mm)		Actuator type	øDa (mm)	H1 (mm)
	T200	210	217 (DN15-32)		T400	408	266 (DN32)
	T250	292	217 (DN15-32)		T400	408	279 (DN40-80)
	T250	292	230 (DN40-50)		T400	408	323 (DN100)
	T310	336	242 (DN25-32)		T500	520	266 (DN32)
	T310	336	255 (DN40-80)		T500	520	279 (DN40-80)
	T310	336	299 (DN100)		T500	520	323 (DN100)



## Control Valves

Maximum permissible pressure drop in kg/cm<sup>2</sup> within limit of body PN rating

Type	Spring Close (SC)								
Type	T200	T200	T200	T250	T250	T250	T310	T310	T310
Signal psi	3-15 psi	6-18 psi	6-30 psi	3-15 psi	6-18 psi	6-30 psi	3-15 psi	6-18 psi	6-30 psi
DN 15	12	25	65	27	55	110			
DN 20	8	16	40	17	34	68			
DN 25	5	9	22	9	19	38	15,5	31	62
DN 32	3	6	11	6	12	20	10	20	30
DN 40				4	8	14,5	7	14	21
DN 50				2,4	3	7	3,5	7	12
DN 65							2,5	4,2	6,5
DN 80							1,7	2,8	4,7
DN 100							0,9	1,3	2,6

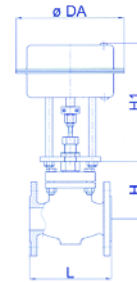
Maximum permissible pressure drop in kg/cm<sup>2</sup> within limit of body PN rating

Type	Spring Close (SC)									
Type	T400	T400	T400	T500	T500	T500				
Signal psi	3-15 psi	6-18 psi	6-30 psi	3-15 psi	6-18 psi	6-30 psi				
DN 32	14,5	29,5	45	24,5	49	75				
DN 40	10,5	20,5	31,5	17,5	34,5	52,5				
DN 50	5	12	18	9,05	19,5	30,3				
DN 65	3,8	6,7	16	5,5	12,2	26				
DN 80	2,5	4	11	4,2	7	16				
DN 100	1,4	2,8	6,3	2,4	4,9	10,5				

- Kvs: m<sup>3</sup>/h water at 1 bar pressuredrop. Kvs values are for EQP/EQV plugs (equal percentage)

## Control Valves

Control Valves, NC, Steel		Type : 2000AR
<b>Flanged PN 40. Pneumatic Spring Close</b>		
Suitable for: Steam, water, cooling liquide, non aggressive liquide and gasses		
* Steam, water, cooling liquide, non aggressive liquide and gasses		
<b>Specifications</b>		
Type	: 2000AR	
Material	: Carbon steel 1.0619	
Pressure rating	: PN 40	
Bonnet	: C40 steel, nickel plated	
Seat	: Stainless steel AISI316. Option: Stellite.	
Plug	: Stainless steel AISI316. Option: Stellite.	
Stem	: Stainless steel AISI316.	
Packing	: 85% PTFE + 15% Graphite ≤200°C (Standard)	
	: Graphite for higher temperatures	
	: PTFE	
Actuator	: Steel w/coating	
	: EPDM diaphragm	
	: Yoke GGG50 w/coating	
	: Pneumatic connections: 1/8" ISO 7 Rp	
Control signals	: 3-15psi, 6-18psi eller 6-30psi. (Max 2,5 bar).	
Face to Face	: DIN 3202-F1	
Connection	: DIN PN40 (2545)	
Temperature	: -10°C to +120°C ≤ 40 bar	
	: +400°C ≤ 21 bar	
Options	: Finned bonnet ≥200°C.	
	: Extended bonnet ≤-5°C	
	: Reduced bore, microflow, low noise and bellows sealed.	



Article no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHER
	DN (Kvs)	L	H	Flange diam.	PCB	
97200600	15 (3,4)	130	105	95	65 x 4 x 14	
97200601	20 (6,6)	150	110	105	75 x 4 x 14	
97200602	25 (10,8)	160	115	115	85 x 4 x 14	
97200603	32 (17)	180	125	140	100 x 4 x 18	
97200604	40 (20,5)	200	130	150	110 x 4 x 18	
97200605	50 (43)	230	135	165	125 x 4 x 18	
97200606	65 (60,5)	290	155	185	145 x 8 x 18	
97200607	80 (75,2)	310	160	200	160 x 8 x 18	
97200608	100 (102)	350	175	235	190 x 8 x 22	

### Actuator types

Article no.	DIMENSIONS			Article no.	DIMENSIONS		
	Actuator type	øDa (mm)	H1 (mm)		Actuator type	øDa (mm)	H1 (mm)
	T200	210	217 (DN15-32)		T400	408	266 (DN32)
	T250	292	217 (DN15-32)		T400	408	279 (DN40-80)
	T250	292	230 (DN40-50)		T400	408	323 (DN100)
	T310	336	242 (DN25-32)		T500	520	266 (DN32)
	T310	336	255 (DN40-80)		T500	520	279 (DN40-80)
	T310	336	299 (DN100)		T500	520	323 (DN100)

## Control Valves

Maximum permissible pressure drop in kg/cm<sup>2</sup> within limit of body PN rating

Type	Spring Close (SC)								
Type	T200	T200	T200	T250	T250	T250	T310	T310	T310
Signal psi	3-15 psi	6-18 psi	6-30 psi	3-15 psi	6-18 psi	6-30 psi	3-15 psi	6-18 psi	6-30 psi
DN 15	12	25	65	27	55	110			
DN 20	8	16	40	17	34	68			
DN 25	5	9	22	9	19	38	15,5	31	62
DN 32	3	6	11	6	12	20	10	20	30
DN 40				4	8	14,5	7	14	21
DN 50				2,4	3	7	3,5	7	12
DN 65							2,5	4,2	6,5
DN 80							1,7	2,8	4,7
DN 100							0,9	1,3	2,6

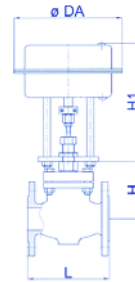
Maximum permissible pressure drop in kg/cm<sup>2</sup> within limit of body PN rating

Type	Spring Close (SC)								
Type	T400	T400	T400	T500	T500	T500			
Signal psi	3-15 psi	6-18 psi	6-30 psi	3-15 psi	6-18 psi	6-30 psi			
DN 32	14,5	29,5	45	24,5	49	75			
DN 40	10,5	20,5	31,5	17,5	34,5	52,5			
DN 50	5	12	18	9,05	19,5	30,3			
DN 65	3,8	6,7	16	5,5	12,2	26			
DN 80	2,5	4	11	4,2	7	16			
DN 100	1,4	2,8	6,3	2,4	4,9	10,5			

- Kvs: m<sup>3</sup>/t water at 1 bar pressuredrop. Kvs values are for EQP/EQV plugs (equal percentage)

## Control Valves

Control Valves, NC, AISI 316		Type : 2000AR
<b>Flanged PN 40. Pneumatic Spring Close</b>		
Suitable for: Steam, water, cooling liquide, non aggressive liquide and gasses		
* Steam, water, cooling liquide, non aggressive liquide and gasses		
<b>Specifications</b>		
Type	: 2000AR	
Material	: Stainless steel AISI 316	
Pressure rating	: PN 40. Option PN16, 25, 64 & 100	
Bonnet	: AISI 316	
Seat	: Stainless steel AISI316. Option: Stellite.	
Plug	: Stainless steel AISI316. Option: Stellite.	
Stem	: Stainless steel AISI316.	
Packing	: 85% PTFE + 15% Graphite ≤200°C (Standard)	
	: Graphite for higher temperatures.	
	: 100% PTFE	
Actuator	: Steel w/coating	
	: EPDM diaphragm	
	: Yoke GGG50 w/coating	
	: Pneumatic connections: 1/8" ISO 7 Rp	
Control signals	: 3-15psi, 6-18psi eller 6-30psi. (Max 2,5 bar).	
Face to Face	: DIN 3202-F1	
Connection	: DIN PN40 (2545)	
Temperature	: -10°C to +120°C ≤ 40 bar	
	: +510°C ≤ 24 bar	
Options	: Finned bonnet ≥200°C.	
	: Extended bonnet ≤-5°C	
	: Reduced bore, microflow, low noise and bellows sealed.	



Item no.	DIMENSIONS (mm)			CONNECTIONS (mm)		OTHER
	DN (Kvs)	L	H	Flange diam.	PCB	
97903822	15 (3,4)	130	105	95	65 x 4 x 14	
97903823	20 (6,6)	150	110	105	75 x 4 x 14	
97903824	25 (10,8)	160	115	115	85 x 4 x 14	
97903825	32 (17)	180	125	140	100 x 4 x 18	
97903826	40 (20,5)	200	130	150	110 x 4 x 18	
97903827	50 (43)	230	135	165	125 x 4 x 18	
97903828	65 (60,5)	290	155	185	145 x 8 x 18	
97903829	80 (75,2)	310	160	200	160 x 8 x 18	
97903830	100 (102)	350	175	235	190 x 8 x 22	

### Aktuator types

Article no.	DIMENSIONS			Article no.	DIMENSIONS		
	Actuator type	øDa (mm)	H1 (mm)		Actuator type	øDa (mm)	H1 (mm)
	T200	210	217 (DN15-32)		T400	408	266 (DN32)
	T250	292	217 (DN15-32)		T400	408	279 (DN40-80)
	T250	292	230 (DN40-50)		T400	408	323 (DN100)
	T310	336	242 (DN25-32)		T500	520	266 (DN32)
	T310	336	255 (DN40-80)		T500	520	279 (DN40-80)
	T310	336	299 (DN100)		T500	520	323 (DN100)

## Control Valves

Maximum permissible pressure drop in kg/cm<sup>2</sup> within limit of body PN rating

Type	Spring Close (SC)								
Type	T200	T200	T200	T250	T250	T250	T310	T310	T310
Signal psi	3-15 psi	6-18 psi	6-30 psi	3-15 psi	6-18 psi	6-30 psi	3-15 psi	6-18 psi	6-30 psi
DN 15	12	25	65	27	55	110			
DN 20	8	16	40	17	34	68			
DN 25	5	9	22	9	19	38	15,5	31	62
DN 32	3	6	11	6	12	20	10	20	30
DN 40				4	8	14,5	7	14	21
DN 50				2,4	3	7	3,5	7	12
DN 65							2,5	4,2	6,5
DN 80							1,7	2,8	4,7
DN 100							0,9	1,3	2,6

Maximum permissible pressure drop in kg/cm<sup>2</sup> within limit of body PN rating

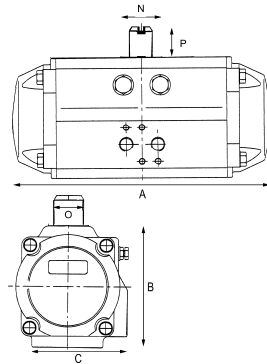
Type	Spring Close (SC)									
Type	T400	T400	T400	T500	T500	T500				
Signal psi	3-15 psi	6-18 psi	6-30 psi	3-15 psi	6-18 psi	6-30 psi				
DN 32	14,5	29,5	45	24,5	49	75				
DN 40	10,5	20,5	31,5	17,5	34,5	52,5				
DN 50	5	12	18	9,5	19,5	30,3				
DN 65	3,8	6,7	16	5,5	12,2	26				
DN 80	2,5	4	11	4,2	7	16				
DN 100	1,4	2,8	6,3	2,4	4,9	10,5				

- Kvs: m<sup>3</sup>/t water at 1 bar pressuredrop. Kvs values are for EQP/EQV plugs (equal percentage)

# Quarter turn Pneumatic Actuators

## Pneumatic actuators

<b>Pneumatic actuator, rotating</b>	<b>Type : APD</b>
<b>Double acting (air / air)</b>	
<b>Suitable for:</b> Ball valves, butterfly valves, plug valves and 3-way valves.	
<ul style="list-style-type: none"> <li>* Easy mounting of solenoid valve, limit switches / proximity switches, positioner and other accessories, as all connections are standardized.</li> <li>* Very strong and corrosion resistant surface.</li> <li>* End positions can be adjusted.</li> <li>* Polished internal surface (Ra 0,4-0,6) for minimal friction and extended lifetime.</li> <li>* Position indication in stem top.</li> <li>* 100% function- and leakage test.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>APD</b>
<b>Material</b>	: <b>Body anodized aluminium</b>
<b>Stem</b>	: Nickel-plated carbon steel
<b>Covers</b>	: Polyester painted aluminium
<b>Piston</b>	: Anodized aluminium
<b>O-rings</b>	: Standard: NBR
<b>Glide guides</b>	: Acetalic resin
<b>Screws/bolts</b>	: AISI 304
<b>Control media</b>	: Dry or lubricated filtered air, inert gas, light hydraulic oil
<b>Supply</b>	: 1 to 8 bar
<b>Temperature</b>	: -20°C to +80°C
<b>Rotation</b>	: 90° (adjustable at end position ±4°)
<b>Stem connection</b>	: Star like for square 45° and 90°
<b>Actuator flange</b>	: ISO 5211
<b>Solenoid valve connection:</b>	NAMUR (VDI/VDE 3845)



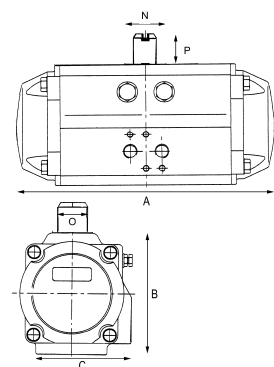
Article no.	Type	MAX. TORQUE (Nm) control pressure at 6 bar	CONNECTIONS / DIMENSIONS (mm)		
			Bottom connection	Top connection	A x B x C x P x N/O
40707010	APD-032*	7,6	F03 square 9	50 x 25	117 45 48 20 8/12
40707120	APD-042	13,0	F03 square 9	80 x 30	140 57 71 20 8/12
40707025	APD-050	18,5	F03 square 9	80 x 30	138 67 75 20 8/12
40707024	APD-050	18,5	F04 square 11	80 x 30	138 67 75 20 8/12
40707034	APD-063	33,0	F05 square 14	80 x 30	156 83 86 20 8/12
40707024	APD-050	18,5	F04 square 11	80 x 30	138 67 75 20 8/12
40707045	APD-085	106,9	F05/F07 square 17	80 x 30 (105 x 22)	228 110 104 20 14/18
40707045	APD-085	106,9	F05/F07 square 17	80 x 30 (105 x 22)	228 110 104 20 14/18
40707045	APD-085	106,9	F05/F07 square 17	80 x 30 (105 x 22)	228 110 104 20 14/18
40707107	APD-100	166,4	F07/F10 square 17	80 x 30 (105 x 22)	281 125 120 20 14/18
40707116	APD-115	274,5	F07/F10 square 22	130 x 30 (139 x 22)	310 142 134 30 27/36
40707126	APD-125	361,1	F07/F10 square 22	130 x 30 (139 x 22)	362 155 141 30 27/36
40708599	APD-145	520,2	F10/F12 square 22	130 x 30 (139 x 22)	390 175 163 30 27/36
40707165	APD-160	710,1	F10/F12 square 22	130 x 30 (139 x 22)	462 196 176 50 27/36
40708725	APD-180	958	F10/F12 square 27	130 x 30 (139 x 22)	474 220 196 50 32/42
40707205	APD-200	1333,3	F10/F12 square 27	130 x 30 (139 x 22)	575 240 220 50 32/42
40707207	APD-270	3235,2	F14 square 36	130 x 30	685 332 352 50 55/80
40700001	APD-330	5859	F16 square 46	130 x 30	850 414 400 50 55/80

- \*Use type APD-042 and onwards for mounting of limit switches and or solenoid valve.

Also available:

- other surface treatment
- O-rings in viton (-15°C to +150°C)
- higher torques
- other stem connections
- stainless steel

## Pneumatic actuators



### Pneumatic actuator, rotating Type : APE

#### Single acting (air / spring)

**Suitable for:** Ball valves, butterfly valves, plug valves and 3-way valves.

- \* Easy mounting of solenoid valve, limit switches / proximity switches, positioner and other accessories, as all connections are standardized.
- \* Very strong and corrosion resistant surface.
- \* End positions can be adjusted.
- \* Polished internal surface (Ra 0,4-0,6) for minimal friction and extended lifetime.
- \* Position indication in stem top.
- \* 100% function- and leakage test.

#### Specifications

<b>Type</b>	: APE
<b>Material</b>	: Body anodized aluminium
<b>Stem</b>	: Nickel-plated carbon steel
<b>Covers</b>	: Polyester painted aluminium
<b>Piston</b>	: Anodized aluminium
<b>O-rings</b>	: Standard: NBR
<b>Glide guides</b>	: Acetalic resin
<b>Screws/bolts</b>	: AISI 304
<b>Control media</b>	: Dry or lubricated filtered air, inert gas, light hydraulic oil
<b>Supply</b>	: 1 to 10 bar
<b>Temperature</b>	: -20°C to +80°C
<b>Rotation</b>	: 90° (adjustable at end position ±4°)
<b>Stem connection</b>	: Star like for square 45° and 90°
<b>Actuator flange</b>	: ISO 5211
<b>Solenoid valve connection:</b>	NAMUR (VDI/VDE 3845)

Article no.	Type	MAX. TORQUE (Nm)	CONNECTIONS / DIMENSIONS (mm)			
		Spring 90°/0°	Bottom connection	Top connection	A x B x C x P x N/O	
40707119	APE-042	9,0/5,0	F03/F05 square 9	80 x 30	140 57 71 20 8/12	
40707123	APE-050	11,5/7,0	F03/F05 square 9	80 x 30	138 67 75 20 8/12	
40707132	APE-063	20,5/14,5	F04 square 11	80 x 30	156 83 86 20 8/12	
40707575	APE-075	45,1/25,3	F04 square 11	80 x 30 (105 x 22)	210 100 94 20 14/18	
40707576	APE-075	45,1/25,3	F05/F07 square 14	80 x 30 (105 x 22)	210 100 94 20 14/18	
40707585	APE-085	69,1/37,8	F05/F07 square 14	80 x 30 (105 x 22)	228 110 104 20 14/18	
40707590	APE-100	106,4/60,0	F07/F10 square 17	80 x 30 (105 x 22)	281 125 120 20 14/18	
40705114	APE-115	168,5/106,0	F07/F10 square 17	130 x 30 (139 x 22)	310 142 134 30 27/36	
40705115	APE-115	168,5/106,0	F07/F10 square 22	130 x 30 (139 x 22)	310 142 134 30 27/36	
40707595	APE-125	233,6/127,5	F07/F10 square 22	130 x 30 (139 x 22)	362 155 141 30 27/36	
40707596	APE-145	336,0/204,0	F10/F12 square 22	130 x 30 (139 x 22)	390 175 163 30 27/36	
40707600	APE-160	444,8/265,3	F10/F12 square 22	130 x 30 (139 x 22)	462 196 176 50 27/36	
40707602	APE-160	444,8/265,3	F10/F12 square 27	130 x 30 (139 x 22)	462 196 176 50 27/36	
40707607	APE-180	575,9/382,1	F10/F12 square 27	130 x 30 (139 x 22)	474 220 196 50 32/42	
40707604	APE-200	847,2/484,1	F10/F12 square 27	130 x 30 (139 x 22)	575 240 220 50 32/42	
40707605	APE-270	1825/1410,2	F14 square 36	130 x 30	685 332 352 50 55/80	
40700002	APE-330	3479/2387	F16 square 46	130 x 30	850 414 400 50 55/80	

- Standard dimensioning pressure: 6 bar; standard number of springs: 6 stk

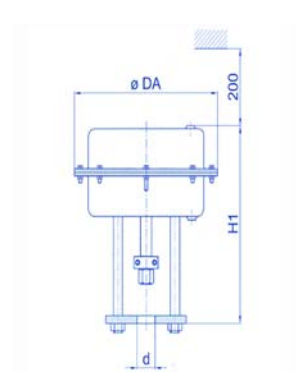
- Also available:**
- other surface treatment
  - O-rings in viton (-15°C to +150°C)
  - number of springs can be changed between 3-6 pcs. for adaption of torque and supply pressure
  - other stem connections
  - stainless steel



# **Linier Pneumatic Actuators**

## Pneumatic actuators

<b>Pneumatic actuator, linear</b>		<b>Type : Series S</b>
<b>Single acting and Double acting</b>		
<b>Suitable for:</b> Control of globe valves		
<p>* Multi spring membran actuator in a light and compact design.          * Membrane of rubber vulcanized cloth ensures long life time and service stability.          * Action and control pressure range can be changed without use of special tools.</p>		
<b>Specifications</b>		
<b>Type</b>	: <b>Series S</b>	
<b>Material</b>	: Polyester coated steel	
<b>Stem</b>	: Stainless steel 1.4301	
<b>O-ring seals</b>	: NBR (Nitril rubber)	
<b>Membrane</b>	: Neoprene	
<b>Columns</b>	: Steel	
<b>Springs</b>	: Spring steel,galvanized	
<b>Control media</b>	: Dry filtered air, non aggressive gas.	
<b>Control pressure</b>	: Max. 6 bar	
<b>Control air connection:</b>	: 1/8"RG	
<b>Temperature</b>	: -25°C to +115°C	
<b>Function</b>	: Type SC: Air opens / Springs close (NC) : Type SO: Springs open / Air closes (NO) : Type DA: Air opens / Air closes (DA)	



Article no.	Spring close	CONTROL DATA			DIMENSIONS
		Shut off force (kN)	Stroke (mm)	Min.Control pressure	
97500002	S16SC-I	0,14	21	1,1	øDA x ød x H1
97500005	S16SC-II	0,33	21	2,6	160 25 230
97500003	S16SC-III	2,14	27	4,9	160 25 255
97500006	S25SC-I	2,0	0,2	0,9	250 25 290
97900099	S25SC-II	3,80	28	3,8	250 25 290
97500009	S34SC-I	1,06	41	0,9	340 30 350
97900101	S34SC-II	6,16	41	5,1	340 30 350
97508012	S34SC-III	10,70	41	5,8	340 30 350
97500072	S42SC-I	16,07	60	5,8	420 30 378
97500071	S42SC-II	17,79	50	5,8	420 30 378
Article no.	Spring opens	Shut off force (kN)	Stroke (mm)	Min.Control pressure	øDA x ød x H1
97500004	S16SO	3,91	21	6	160 25 230
97500008	S25SO	11,34	35	6	250 25 290
97500012	S34SO	22,02	41	6	340 30 350
97500034	S42SO-I	21,00	60	6	420 30 378
97500035	S42SO-II	11,11	60	6	420 30 388
Article no.	Double acting	Shut off force (kN)	Stroke (mm)	Min.Control pressure	øDA x ød x H1
97500078	S16DA	4,8	37	6	160 25 230
97500079	S25DA	15,00	51	6	250 25 290
97500076	S34DA	17,20	65	4	340 30 350
97500077	S42DA	39,50	60	6	420 60 424

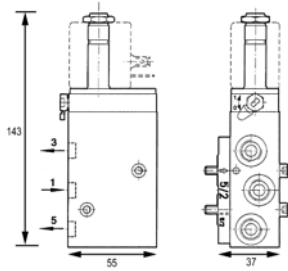
Also available:

- Size S25 and S34 are available with handwheel.
- Stainless steel AISI 304, O-rings in Viton (-15°C to +150°C).

# **Accessories Pneumatic**

## **Actuators**

## Solenoid valve



<b>Herion solenoid valve</b>	<b>Type : 26230.77</b>
<b>5/2 way, NAMUR</b>	
<b>Suitable for:</b> Pneumatic actuators.	
* For double- and single acting pneumatic actuators. * Very rugged construction.	
<b>Specifications</b>	
<b>Type</b>	: <b>26230.77</b>
<b>Material</b>	: <b>Aluminium, anodized</b>
O-rings	: NBR
Protection class	: IP65 (incl. terminal plug)
Supply pressure	: 2 to 8bar
Kv-value	: 1,2m <sup>3</sup> /h
Connections	: NAMUR and G1/4"
Function	: spring return 5/2 way
Manual override	: yes
Temperature	: -10°C to +50°C
Area classification	: See below

## Valve

Article no.	Other	
40305000	5/2 way function	spring return

## Solenoid

Article no.	Area	Power	Other		
			Connection	Type	Voltage
40305010	Safe area	1,7 W	M16	3050	24 VDC
40305005	Safe area	4,3 VA	M16	3050	24 VAC
40305015	Safe area	4,3 VA	M16	3050	230 VAC
40305210	EEx m T5 / Ex II 2G	2,8 W	3m cord		24 VDC
40305205	EEx m T5 / Ex II 2G	2,9 VA	3m cord		24 VAC
40305215	EEx m T5 / Ex II 2G	3,3 VA	3m cord		230 VAC

When ordering, define:

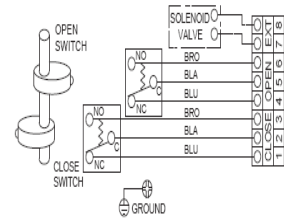
- Valve article no.
- Solenoid article no. (includes terminal socket).

Also available:

- Terminal socket with LED-diode
- Bi-stable

## Position indicators

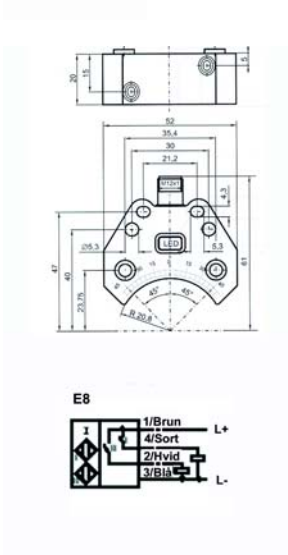
<b>Position indicators</b>	<b>Type : ITS100</b>
<b>Limit switch box, mechanical type</b>	
<b>Suitable for:</b> End limit indication for automatic and manual shut off valves with 90° rotation.	
<ul style="list-style-type: none"> <li>* Standard limit switch box with two micro switches for open and closed position.</li> <li>* Easy to set cams without use of special tool.</li> <li>* Includes stainless steel mounting bracket.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>ITS100</b>
<b>Material</b>	: <b>Body: die-cast aluminium, Epoxy-Polyester coated</b>
<b>Shaft</b>	: Stainless steel AISI 316
<b>Sealing</b>	: NBR O-ring
<b>Enclosure</b>	: IP65
<b>Switches</b>	: 2-SPDT micro switches, form C.
<b>Terminals</b>	: 6 for switches and 2 for solenoid valve power.
<b>Cable entry</b>	: 2 pcs. M20x1,5
<b>Mounting bracket</b>	: Stainless steel
<b>Connection</b>	: VDI/VDE 3845
<b>Rating</b>	: 16A, 250VAC acc. to UL and CSA
<b>Ambient temperature:</b>	: -20°C to +80°C



## Type

Article no.	For actuator type	Connection (mm)
40600100	90° rotating	80x30x20 + 130x30x50

## Position indicators



<b>Position indicators</b>	<b>Type : NBN3-F25-E8-V1</b>
<b>Proximity switch, 3-wire DC, PNP,dual, NO</b>	
<b>Suitable for:</b> End limit indication for automatic and manual shut off valves with 90° rotation.	
<ul style="list-style-type: none"> <li>* Very compact.</li> <li>* Rigid and mechanically strong design.</li> <li>* Direct and easy mounting on actuator (NAMUR VDI/VDE 3845).</li> <li>* Angle- or straight form terminal socket.</li> <li>* Highly visual yellow position indication on rotor.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>NBN3-F25-E8-V1</b>
<b>Material</b>	: <b>Housing material PBT</b>
<b>Enclosure</b>	: IP67
<b>Sensor</b>	: Double inductive sensor NBN3
<b>Rated operating distance:</b>	0,1 - 2,43 mm
<b>Connection</b>	: Socket M12 x 1 (4-pole)
<b>Operating voltage</b>	: +10 to +30VDC
<b>Operating current</b>	: Max. 200mA
<b>Ambient temperature:</b>	-25°C to +70°C
<b>Switching indication</b>	: LED, yellow

## Proximity switch

Article no.	Other			
	Sensor type	Rotor	Mounting pattern/stem height & Ø(mm)	Actuator type
40603105	NBN3-F25F-E8-V1		30 (21,2)	
40603225		BT32-F25-0	80 x 30 / 20 / Ø under 34	AP 050 - 100
40603425		BT34-F25-3	130 x 30 / 30 / Ø over 34	AP 115 - 125
40603435		BT34-F25-4	130 x 50 / 30 / Ø over 34	AP 160

## Corresponding sockets

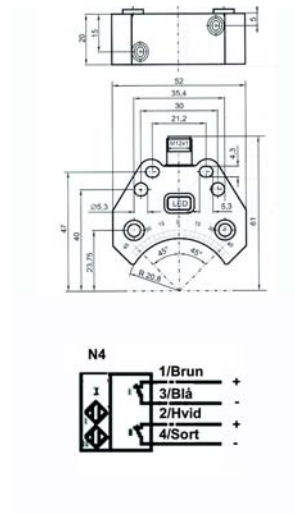
Article no.	Type	Description
40603501	Straight	M12 x 1, 4 pole female
40603502	Angle	M12 x 1, 4 pole female

- Types for other and larger actuators are available.

Options: - 2-meter cable with socket.  
- ASI-bus system application.

## Position indicators

<b>Position indicators</b>	<b>Type : NCN3-F25-N4-V1</b>
<b>Namur proximity switch, 2-wire</b>	
<b>Suitable for:</b> End limit indication for automatic and manual shut off valves with 90° rotation.	
<ul style="list-style-type: none"> <li>* Very compact.</li> <li>* Rigid and mechanically strong design.</li> <li>* Direct and easy mounting on actuator (NAMUR VDI/VDE 3845).</li> <li>* Angle or straight form terminal socket.</li> <li>* Highly visual yellow position indication on rotor.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>NCN3-F25-N4-V1</b>
<b>Material</b>	: <b>Housing material PBT</b>
<b>Enclosure</b>	: IP67
<b>Sensor</b>	: Double NAMUR sensor NCN3-F25-N4-V1, 2-wire
<b>Rated operating distance:</b>	0,1 - 2,43 mm
<b>Connection</b>	: Socket M12 x 1 (4-pole)
<b>Operating voltage</b>	: 8 V
<b>Operating current</b>	: 1mA
<b>Ambient temperature:</b>	-25°C to +100°C
<b>Switching indication</b>	: LED, yellow
<b>Atex category</b>	: 1G, 2G, 3G, 3D



## Proximity switch

Article no.	Sensor type	Other		
		Rotor	Mounting pattern/stem height & Ø(mm)	Actuator type
40603115	NCN3-F25-N4-V1		30 (21,2)	
40603225		BT32-F25-0	80 x 30 / 20 / Ø under 34	AP 050 - 100
40603425		BT34-F25-3	130 x 30 / 30 / Ø over 34	AP 115 - 125
40603435		BT34-F25-4	130 x 50 / 30 / Ø over 34	AP 160

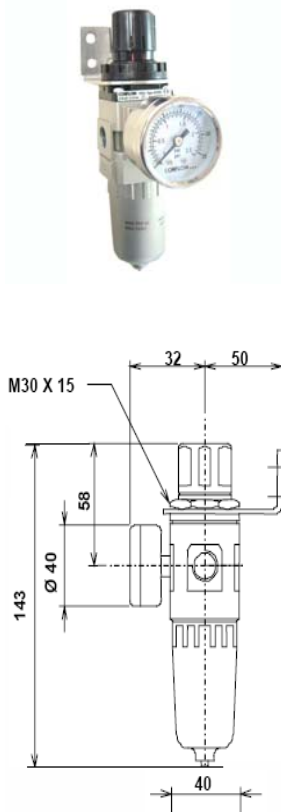
## Corresponding socket

Article no.	Type	Description
40603501	Straight	M12 x 1, 4 pole female
40603502	Angle	M12 x 1, 4 pole female

- Types for other and larger actuators are available.

**Options:** - 2-meter cable with socket.  
- ASI-bus system application.

## Air filter regulator



### Air filter regulator

Type : AFR

#### Pressure reducing valve with filter

**Suitable for:** Pneumatic actuators and positioners

- \* Metal body and compact design
- \* Very strong to mechanical vibrations
- \* Very high filtration and fine regulation
- \* Drain cock

#### Specifications

<b>Type</b>	: AFR
<b>Material</b>	: <b>Body: die-casting zinc-aluminium, coated</b>
Bonnet/Handwheel	: Nylon
Filter element	: Bronze
Mounting bracket	: Stainless steel AISI304
Gauge	: Stainless steel AISI304
Air connection in-out:	1/4" NPT
Gauge connection	: 1/4" NPT
Filtration	: 5µ
Drain capacity	: 12cm <sup>3</sup>
Operating pressure	: 1-10 bar(g) (inlet)
Operating temperature:	-5°C to +60°C
Weight	: 0,44kg

### Type

Article no.	Reduced pressure (psi)	Reduced pressure (bar)
97650006	0-35	0-2,5
	0-80	0-6
97650010	0-145	0-10



## Accessories

<b>Air mufflers</b>	<b>Type : MW</b>
<b>Suitable for:</b> Pneumatic actuators, positioners and solenoid valves.	
*	
<b>Specifications</b>	
<b>Type</b>	: <b>MW</b>
<b>Material</b>	: <b>Brass with stainless steel filter</b>
<b>Pressure</b>	: max.10 bar
<b>Thread</b>	: BSP male threaded



Article no.	Connection	Material
90851001	G 1/8"	Brass/Stainless steel
90851000	G 1/4"	Brass/Stainless steel

**Also available:**

- Other dimensions.
- Other materials.

# Electrical Actuators

## Electrical actuators



Electrical actuators		Type : Ulli
<b>Quarter turn - 90°</b>		
<b>Suitable for:</b> Ball Valves, Butterfly Valves, Plug Valves og 3-way quarter turn Valves		
<ul style="list-style-type: none"> <li>* Mounting flange ISO 5211.</li> <li>* Visible position indicator</li> <li>* Tested for Marine use</li> <li>* Special versions with quick closing time 5-7 sec.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>Ulli</b>	
Power Supply	: 230VAC, options 24VDC, 24VAC, 110VAC and 3x380VAC (depending on model)	
IP class	: IP68	
Run rate	: 50%	
Mechanical stop	: 2 x adjustable	
Ambient temp.	: -5°C to +60°C	
Emergency closing	: Manual with Allan key	

Technical information					
Article no.	Type	ISO 5211 / Square 45° (mm)	Torque (Nm)	Closing time (sec)	
40700003	Ulli 2	F 05 / 9x9mm	20	30	
40700004	Ulli 5	F 05/07 / 11x11	50	20	
40700005	Ulli 10	F 07 / 14x14	100	30	
40700006	Ulli 16	F 07 / 17x17	160	30	
40700007	Ulli 25	F 10/12 / 17x17	250	30	
40700008	Ulli 50	F 10/12 / 27x27	500	30	
40700009	Ulli 100	F 12 / 32x32	1000	50	
40700010	Ulli 200	F 12 / 32x32	2000	100	
40700011	Ulli 400	F 12 / 60x60	4000	150	
40700012	Ulli 600	F 12 / 60x60	6000	208	

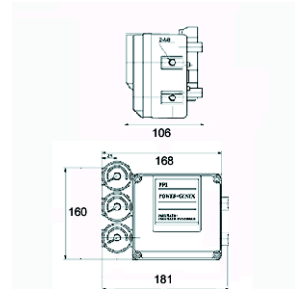
## Options

	Description	Other
	Open / Close Switches	
	Torque limiter	
	Heating element	
	Handwheel	
	4-20mA Feedback	
	Control: Input 4-20mA(0-10V) + Feedback 4-20mA	

# Pneumatic Positioners

## Pneumatic Positioner

<b>Pneumatic Positioner</b>	<b>Type : PPL and PPR</b>
<b>PPL for linear and PPR for 90° rotating actuator</b>	
<b>Suitable for:</b> Double and single acting pneumatic actuators.	
<ul style="list-style-type: none"> <li>* Pneumatic positioner in rugged execution.</li> <li>* Stainless steel gauges are standard.</li> <li>* Vibration resistant design.</li> <li>* Easy to calibrate and maintain.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>PPL and PPR</b>
<b>Material</b>	: <b>Powder coated die cast Aluminium.</b>
<b>Supply pressure</b>	: Max. 7 bar filtered air without oil, water and dust.
<b>Air flow capacity</b>	: 4,8 m <sup>3</sup> /t at 1,4 bar
<b>Air consumption</b>	: 0,3 m <sup>3</sup> /h at 1,4 bar
<b>Position indication</b>	: Mechanical visual on type PPR
<b>Input signal</b>	: 0,2-1 bar (3-15 psig)
<b>Bracket</b>	: Stainless steel AISI 304
<b>Ambient temperature:</b>	-20° to +70°C
<b>Options</b>	: Split range and bracket for longer stroke or other rotation angles.



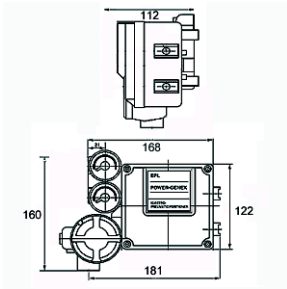
### Positioner PPL / PPR

Article no.	Actuator type	Description
97680045	Linear	PPL without bracket
97680046	Linear	PPL with bracket for series S actuators
40507000	90° Rotating	PPR without bracket

### Brackets

Article no.	Actuator type / positioner	Dimensions
	Linear	PPL + EPL: 10-80 mm stroke
40900130	90° rotating	PPR+EPR: 30 x 80 mm mounting pattern
40900135	90° rotating	PPR+EPR: 30 x 130 mm mounting pattern

## Electro-pneumatic positioner



### Electro-pneumatic positioner Type : EPL and EPR

#### EPL for linear and EPR for 90° rotating actuator

**Suitable for:** Double and single acting pneumatic actuators.

- \* Electro-pneumatic positioner in rugged execution.
- \* Stainless steel gauges are standard.
- \* Vibration resistant design.
- \* easy to calibrate and maintain.

#### Specifications

<b>Type</b>	: <b>EPL and EPR</b>
<b>Material</b>	: <b>Powder coated die cast Aluminium</b>
<b>Enclosure</b>	: IP 66
<b>Supply pressure</b>	: Max. 7 bar filtered air without oil, water and dust
<b>Air flow capacity</b>	: 4,8 m <sup>3</sup> /t at 1,4 bar
<b>Air consumption</b>	: 0,3 m <sup>3</sup> /h at 1,4 bar
<b>Position indication</b>	: Mechanical visual on type PPR
<b>Input signal</b>	: 4-20 mA; 2-wire
<b>Input resistance</b>	: 235 +/- 15 Ω
<b>Bracket</b>	: stainless steel AISI 304
<b>Ambient temperature:</b>	-20° to +70°C
<b>Options</b>	: IP 66 and EEx-execution, splitrange, position transmitter and bracket for longer stroke or other rotation angle.

### Positioner EPL / EPR

Article no.	Actuator type	Description
97680040	Linear	EPL without bracket
97680041	Linear	EPL with bracket for series S actuators
40502010	90° -rotating	EPR without bracket

### Brackets

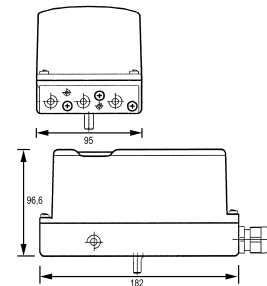
Article no.	Actuator type / positioner	Dimensions
xxx	Linear	PPL + EPL: 10-80 mm stroke
40900130	90°	PPR + EPR: 30x80 mm mounting pattern
40900135	90°	PPR + EPR: 30x130 mm mounting pattern

### Accessories

Article no.	Type	Other
	Position transmitter 4-20mA	

## Digital Positioner

<b>Digital positioner</b>	<b>Type : PS 2</b>
<b>Linear and 90° rotating</b>	
<b>Suitable for:</b> Double- and single acting pneumatic actuators.	
<p>* Intelligent positioner w/display, automatic initialization with programming possibility using a menu and push buttons.          * Minimal air consumption compared with analogue positioners.          * Hart modul is available for communication with PROFIBUS P and PDM software.</p>	
<b>Specifications</b>	
<b>Type</b>	: <b>PS 2</b>
<b>Material</b>	: <b>Glass fibre reinforced polycarbonate.</b>
<b>Enclosure</b>	: IP65
<b>Supply pressure</b>	: 1,4-7 bar
	: without oil, water and dust(<30µm)
<b>Air flow capacity</b>	: 5,5 m³/t at 5-6 bar
<b>Air consumption</b>	: <3,6x10 <sup>-2</sup> m³/h
<b>Position indication</b>	: display
<b>Input signal</b>	: 4-20mA; 2 wire
	: Option: 3- or 4-wire
<b>Input resistance</b>	: 320 Ω
<b>Bracket</b>	: Stainless steel AISI 304
<b>Ambient temperature:</b>	: -30° to +80°C.
<b>Options</b>	: Modul for position transmitter, alarm/fault feedback and inductive sensors. Execution for EEx area, pressure gauge block and metal housing.



Article no.	Actuator type	Description
40504000	Single acting	PS2 EV without bracket
40505400	Double acting	PS2 DV without bracket
97680061	Single acting	PS2 EV with bracket for series S-actuators

### Brackets

Article no.	Actuator type	Dimensions
40504050	Linear	PS2 for 2-35 mm stroke
40502001	90° rotating	PS2 for 30 x 80 mm mounting pattern
40502002	90° rotating	PS2 for 30 x 130 mm mounting pattern

### Accessories

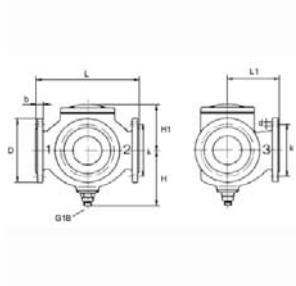
Article no.	Type	Description	Other
40508094	6 DR 4004-8A	Alarm modul	
40505050	6 DR 4004-8J	Position transmitter	4-20mA signal
40508089	6 DR 4004-8J	HART- modul	

# Control Valves

## 3-Way



## Control Valves



### 3-Way Globe valves cast iron

Type : M3F / M3FM

Flange connection PN 10 / PN 6

Suitable for: Mixing valve for water and lubricating oil.

\*

### Specifications

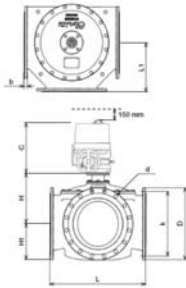
Type : M3F / M3FM  
 Material : Cast iron, GG 25  
 Pressure rating : PN 10 (DN 80 - DN 200)  
 : PN 6 (DN 250 - DN 300)  
 Bonnet : Cast iron  
 Disc : RG10  
 Seat : RG10  
 Stem : Stainless steel, 1.4436

Connections : Flanges DIN 2532  
 Temperature range : Max.120°C  
 Leakage rate : ≤0,5% of full flow rate

Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L	L1	H / H1	D	PCD	Weight (kg)
05100044	80 M3F	310	155	180 / 127	200	160 x 8 x 18	
05100045	100 M3F	350	175	195 / 141	220	180 x 8 x 18	
05100046	125 M3F	400	240	245 / 171	250	210 x 8 x 18	
05100047	150 M3F	480	270	280 / 189	285	240 x 8 x 22	
05100048	175 M3FM	550	300	200 / 200	315	270 x 8 x 22	
05100049	200 M3FM	600	325	238 / 238	340	295 x 8 x 22	
05100050	250 M3FM	850	450	305 / 305	445	400 x 12 x 12	
05100051	300 M3FM	850	450	305 / 305	445	400 x 12 x 23	

Options: - Mounted with pneumatic linear actuator type S.  
 - As diverter valve.

## Control Valves



### 3-Way Globe valves Nodular cast iron Type : G3FM-T

Flange connection PN 16 / PN 10

Suitable for: Mixing or diverting valve for fresh water, lubricating oil and other liquid media.

- \* Engine jacket cooling water system
- \* Lubricating oil cooling
- \* Central cooling water system
- \* Actuation with quarter turn actuators

#### Specifications

<b>Type</b>	: <b>G3FM-T</b>
<b>Material</b>	: <b>Nodular Cast iron, EN-GJS-400-15</b>
<b>Pressure rating</b>	: PN 16 (DN 200 - DN 300)
	: PN 10 (DN 400/350 - DN 500)
<b>Bonnet</b>	: Nodular cast iron
<b>Slide</b>	: Nodular cast iron
<b>O-ring</b>	: NBR 70A
<b>Connections</b>	: Flanges EN 1092-2
<b>Temperature range</b>	: Max.100°C
<b>Leakage rate</b>	: ≤0,5% of full flow rate

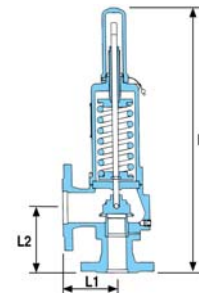
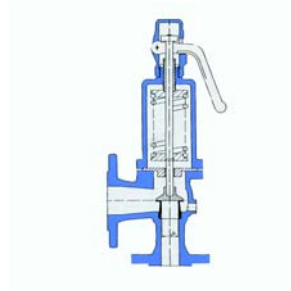
Article no.	DIMENSIONS (mm)				CONNECTIONS (mm)		OTHER
	DN	L	L1	H / H1	D	PCD	Weight (kg)
05100052	200	530	270	238 / 175	340	295 x 12 x 23	120
05100053	250	592	300	273 / 210	400	355 x 12 x 28	158
05100054	300	649	330	301 / 240	455	410 x 12 x 28	206
05100055	400 / 350	770	385	400 / 285	560	515 x 16 x 28	354
05100056	400	770	385	400 / 285	560	515 x 16 x 28	344
05100057	450	820	410	391 / 320	615	565 x 20 x 28	430
05100058	500	900	450	427 / 340	670	620 x 20 x 28	543

- Options:** - Mounted with pneumatic or electric quarter turn actuator  
 - Temperature up to 120°C

# Safety Valves

## Safety valves

<b>Safety valves, Flanged</b>		<b>Type : 1400</b>
<b>Flanged connection PN 40, Angle</b>		
Suitable for: Steam, gases, vapours and liquids		
*		
<b>Specifications</b>		
<b>Type</b>	: <b>1400</b>	
<b>Material</b>	: <b>Carbon steel</b>	
Pressure class	: PN 40	
Body	: Carbon steel	
Bonnet	: Carbon steel	
Disc	: Stainless steel	
Spring	: Carbon steel	
Temperature range	: -28°C to 350°C	
Min. set pressure	: 0,2 barg	
Design/size	: EN-12516-1, EN-4126-1/7	
Inspection	: EN-4126-1/7 API 527 MSS-SP-55	

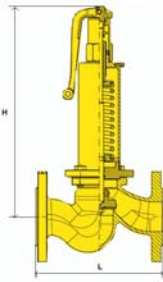


Article no.	DIMENSIONS (mm)				GENERAL		
	DN	L1	L2	H	Flange Ø(mm)	PCD	Weight (kg)
30300012	15 x 25	85	95	348	95 115	65 x 4 x 14 85 x 4 x 18	7
30300013	20 x 32	85	95	348	105 140	75 x 4 x 14 100 x 4 x 18	7,5
30300014	25 x 40	100	105	380	115 150	85 x 4 x 14 110 x 4 x 18	8
30300015	32 x 50	110	115	440	140 165	100 x 4 x 18 125 x 4 x 18	11,5
30300016	40 x 65	115	140	465	150 185	110 x 4 x 18 145 x 8 x 18	12,5
30300017	50 x 80	120	150	550	165 200	125 x 4 x 18 160 x 8 x 18	14
30300018	65 x 100	140	170	585	185 235	145 x 8 x 18 190 x 8 x 22	27
30300019	80 x 125	160	195	820	200 270	160 x 8 x 18 220 x 8 x 26	58
30300020	100 x 150	180	220	883	235 300	190 x 8 x 22 250 x 8 x 26	84
30300021	125 x 200	200	250	1010	270 375	220 x 8 x 26 320 x 12 x 30	140
30300022	150 x 200	242	240	1000	300 375	250 x 8 x 26 320 x 12 x 30	150

## Safety valves



With gastight cap



### Safety valves, Flanged

Type : 13.1

Flanged connection PN 16, Straight w/ lifting lever

Suitable for: Steam, gases, vapours and liquids

\*

#### Specifications

Type : 13.1

Material : Carbon Steel 1.0619

Pressure class : PN 16. Option PN40.

Body : Carbon steel

Guide plate : 1.0460

Bonnet(spring) : 1.0254

Disc : Stainless steel 1.4571, metal seated

Spring : 1.4301

Temperature range : -10°C to 350°C

Min. set pressure : 0,5 barg

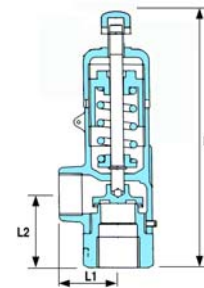
Max. set pressure : see table below

Options : Ductile iron, Stainless steel, Soft seated, Closed gastight cap.

Article no.	DIMENSIONS (mm)				GENERAL		
	DN	L	H	H(Gastight cap)	Flange Ø(mm)	PCD	Weight (kg)
30300001	15	130	250	235	95	65 x 4 x 14	4
30300002	20	150	260	245	105	75 x 4 x 14	4
30300003	25	160	285	270	115	85 x 4 x 14	5,5
30300004	32	180	360	340	140	100 x 4 x 18	9,8
30300005	40	200	365	345	150	110 x 4 x 18	10,3
30300006	50	230	370	350	165	125 x 4 x 18	14
30300007	65	290	380	360	185	145 x 8 x 18	17,5
30300008	80	310	620	540	200	160 x 8 x 18	32,3
30300009	100	350	630	550	235	180 x 8 x 18	42,7
30300010	125	400	645	565	250	210 x 8 x 18	67
30300011	150	480	on request	on request	285	240 x 8 x 22	103

## Safety valves

<b>Safety valves, Threaded</b>		<b>Type : 1216 F</b>
<b>Threaded connection BSP PN 40</b>		
Suitable for: Steam, gases, vapours and liquids		
*		
<b>Specifications</b>		
<b>Type</b>	: <b>1216 F</b>	
<b>Material</b>	: <b>Stainless steel 316 L</b>	
Pressure rating	: PN 40	
Nozzle	: Stainless steel 316 L	
Body	: SA 351 CF-3M	
Cap	: SA 351 CF 8	
Disc	: Stainless steel 316 L	
Spring	: Stainless steel 303	
Temperature range	: -10°C to 350°C	
Min. set pressure	: 0,2 barg	
Design/size	: EN-12516-1, EN-4126-1/7	
Inspection	: EN-4126-1/7	



Article no.	DIMENSIONS (mm)				GENERAL		
	Inlet / Outlet	L1	L2	H	Orifice Ø(mm)	Area (mm <sup>2</sup> )	Weight (kg)
	1/2" x 3/4"	45	57	212	13	133	2,2
	1/2" x 1"	45	57	212	13	133	2,2
30700007	3/4" x 1"	45	57	212	14	154	2,2
30700008	1" x 1"	45	60	215	16	201	2,2
30700009	1" x 1 1/4"	45	61	216	16	201	2,3
30700010	1 1/4" x 1 1/4"	45	62	217	18	254	2,4
30700011	1 1/2" x 2"	62	89	323	28	616	4,6
30700013	2" x 2"	62	93	327	32	804	5,1

## Safety valves



Safety valves, Threaded		Type : 616E
<b>Threaded connection</b>		
Suitable for: Neutral liquids and gaseous media.		
* Without TÜV test certificate.		
<b>Specifications</b>		
Type	: 616E	
Material	: Red brass	
Pressure rating	: PN 16	
Range	: 0,2 - 0,8 bar, 0,5 - 2,5 bar, 2,0 - 12,0 bar	
Seat	: NBR	
Spring	: Stainless steel	
Connection	: BSP female threaded	
Temperature	: max. 130°C	
When ordering	: Please state: Media, set pressure, temperature and capacity	

### 616E

Article no.	DIMENSIONES (mm)				OTHER
	DN	L	H	h	Weight (kg)
30100001	3/8"	27	95	26	0,27
30100002	1/2"	30	95	30	0,38
30100003	3/4"	33	109	35	0,55
30100004	1"	40	130	41	1,0
30100005	1 1/4"	45	157	45	1,6
30100006	1 1/2"	50	170	51	2,3
30100007	2"	60	180	60	3,2

### Capacity for air (Nm<sup>3</sup>/h)

Size	Set pressure (bar)					
	2	4	6	8	10	12
3/8"	3,5	5,8	8,15	10,5	12,8	15
1/2"	5,8	9,7	13,5	17,5	21,3	25
3/4"	12,8	21,3	30	38	46,5	55
1"	34	57,5	77,5	100	124	147
1 1/4"	46,5	77,5	110	150	170	200
1 1/2"	146	240	340	450	540	640
2"	265	440	620	800	975	1150

### Capacity for water (Ltr/h)

Size	Set pressure (bar)					
	2	4	6	8	10	12
3/8"	130	180	220	255	285	310
1/2"	215	300	370	425	475	520
3/4"	465	660	810	930	1050	1140
1"	1700	2400	2950	3400	3800	4150
1 1/4"	2350	3300	4070	4670	5200	5700
1 1/2"	5750	8200	10500	11700	13000	14200
2"	10000	14500	18700	20800	23000	25000

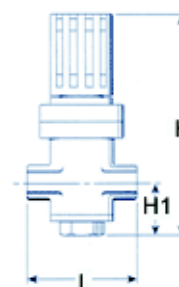
**Options:** - Other seating materials  
- Set pressure 12 - 20 bar

# Pressure Reducing Valves



## Pressure reducing valves

<b>Pressure reducing valve, direct acting</b>	<b>Type : GD-30</b>
<b>Spring loaded</b>	
<b>Suitable for:</b> Steam, air and non aggressive gasses.	
<ul style="list-style-type: none"> <li>* Simple and very sturdy.</li> <li>* Direct acting with integrated sensor.</li> <li>* Compact with high performance.</li> <li>* Built in filter.</li> <li>* Easy to exchange spring to achieve a different regulating span.</li> <li>* Adjustment cap doesn't absorb heat.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>GD-30</b>
<b>Material</b>	: <b>Bronze ASTM B584</b>
<b>Pressure</b>	: Working pressure max.17 bar
<b>Valve seat</b>	: Hardened Stainless steel AISI420
<b>Bellow</b>	: Fosforbronze ASTM B103
<b>Filter</b>	: Stainless steel
<b>Spring cover</b>	: Aluminium
<b>Adjustment cap</b>	: Heat resistant plastic
Min. differential pressure:0,5 bar	
<b>Regulating span</b>	: Max. 10:1
<b>Leak rate</b>	: ≤0,1%
<b>Accuracy</b>	: +/- 10%
<b>Connection</b>	: Inside threaded BSPT.
	: Option: NPT or flanged PN 16.
<b>Temperature</b>	: max. 210°C



### GD30 with BSPT inside threaded

Article no.	CONNECTION	REGULATING SPAN		DIMENSIONS (mm)			OTHER
	BSPT	P2 (bar)	Spring colour	L	H	H1	Weight (kg)
99151100	1/2"	0,5-4	blå	80	190	47	1,9
99151101	3/4"	0,5-4	blå	85	190	47	1,9
99151102	1"	0,5-4	blå	95	190	47	2,0
99151115	1 1/2"	0,5-4	blå	140	309	77	8,2
99151116	2"	0,5-4	blå	150	309	77	8,5
99151105	1/2"	3,5-10	grøn	80	190	47	1,9
99151106	3/4"	3,5-10	grøn	85	190	47	1,9
99151107	1"	3,5-10	grøn	95	190	47	2,0
99151108	1 1/2"	3,5-10	grøn	140	309	77	8,2
99151109	2"	3,5-10	grøn	150	309	77	8,5
99151110	1/2"	0,2-1,0	gul	80	190	47	1,9
99151111	3/4"	0,2-1,0	gul	85	190	47	1,9
99151112	1"	0,2-1,0	gul	95	190	47	2,0
99151113	1 1/2"	0,2-1,0	gul	140	309	77	8,2
99151114	2"	0,2-1,0	gul	150	309	77	8,5

### GD30 flanged PN 16

Varenr.	CONNECTION	REGULATING SPAN		DIMENSIONS (mm)			OTHER
	DN	P2 (bar)	Fjederfarve	L	H	H1	Vægt (kg)
99151117	15	0,5-4	blå	150	190	47	3,5
99151118	20	0,5-4	blå	150	190	47	4,0
99151119	25	0,5-4	blå	160	190	47	4,5
99151120	40	0,5-4	blå	272	309	77	12,8
99151121	50	0,5-4	blå	288	309	77	15,1
99151122	15	3,5-10	grøn	150	190	47	3,5

## Pressure reducing valves

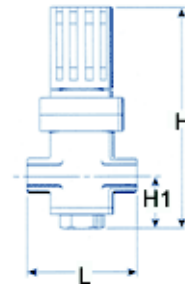
Varenr.	CONNECTION	REGULATING SPAN		DIMENSIONS (mm)			OTHER
	DN	P2 (bar)	Fjederfarve	L	H	H1	Vægt (kg)
99151123	20	3,5-10	grøn	150	190	47	4,0
99151124	25	3,5-10	grøn	160	190	47	4,5
99151125	40	3,5-10	grøn	272	309	77	12,8
99151126	50	3,5-10	grøn	288	309	77	15,1
99151127	15	0,2-1,0	gul	150	190	47	3,5
99151128	20	0,2-1,0	gul	150	190	47	4,0
99151129	25	0,2-1,0	gul	160	190	47	4,5
99151130	40	0,2-1,0	gul	272	309	77	12,8
99151131	50	0,2-1,0	gul	288	309	77	15,1

## Capacity table for steam (kg/t)

Inlet Bar	Outlet Bar	Dimensions (mm)				
		1/2"	3/4"	1"	1 1/2"	2"
1,0	0,5	22	25	42	90	135
1,4	0,9	24	28	48	98	150
	0,5	19	25	35	82	120
2,0	1,6	28	32	51	110	185
	1,0	24	27	46	95	140
	0,2	15	18	27	63	98
2,8	2,2	45	55	85	185	280
	1,4	36	44	72	150	235
	0,3	18	25	35	72	120
3,4	2,8	59	65	110	245	380
	1,4	45	52	85	185	285
	0,3	22	28	40	88	135
4,0	3,3	62	70	120	265	408
	2,8	68	75	131	280	440
	1,2	41	47	77	170	265
	0,4	25	33	45	100	150
5,5	4,4	80	93	155	335	530
	3,7	85	102	160	355	545
	1,6	55	62	100	222	340
	0,5	27	35	49	105	165
6,9	5,5	92	110	180	392	615
	4,5	102	119	198	435	665
	2,8	90	105	170	380	580
	0,7	31	36	60	135	215
8,3	6,6	105	125	205	450	690
	4,8	125	141	235	530	825
	3,1	109	121	204	445	685
	0,8	50	55	90	210	320
10,3	8,3	130	151	250	550	845
	5,9	165	191	320	695	1075
	3,8	135	160	270	580	910
	1,0	60	75	115	255	385
12,4	9,7	185	220	360	780	1215
	8,0	195	230	390	830	1285
	4,8	175	195	335	735	1135
	1,2	75	85	140	310	470
13,8	9,7	209	235	395	900	1390
	8,0	215	245	410	910	1400
	5,5	195	225	375	825	1275
	1,4	95	110	175	385	590
15,5	9,7	220	260	430	935	1450
	8,0	225	265	436	940	1455
	5,9	210	245	410	900	1390
	1,6	115	135	225	490	760
17,2	9,7	238	275	460	1010	1560
	8,3	250	265	471	1020	1575
	4,8	210	240	405	880	1360
	1,7	125	145	240	520	815

## Pressure reducing valves

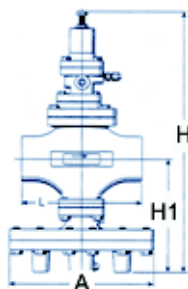
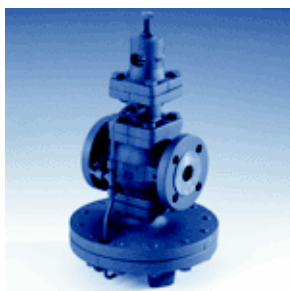
<b>Pressure reducing valve, direct acting</b>	<b>Type : GD-30S</b>
<b>Spring loaded</b>	
<b>Suitable for:</b> Steam, air and non aggressive gasses.	
<ul style="list-style-type: none"> <li>* Simple and very sturdy.</li> <li>* Direct acting with integrated sensor.</li> <li>* Compact with high performance.</li> <li>* Built in filter.</li> <li>* Easy to exchange spring to achieve a different regulating span.</li> <li>* Adjustment cap doesn't absorb heat.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>GD-30S</b>
<b>Material</b>	: <b>AISI 304</b>
<b>Pressure</b>	: Working pressure max.20,7 bar
<b>Valve seat</b>	: AISI 304
<b>Bellow</b>	: AISI 316L
<b>Filter</b>	: AISI 304
<b>Spring cover</b>	: Aluminium
<b>Adjustment cap</b>	: Heat resistant plastic
<b>Min. differential pressure</b>	: 0,5 bar
<b>Regulating span</b>	: Max. 10:1
<b>Leak rate</b>	: ≤0,1%
<b>Accuracy</b>	: +/- 10%
<b>Connection</b>	: Inside threaded BSPT. Option: NPT
<b>Temperature</b>	: max. 220°C
<b>Capacity</b>	: See capacity table for reducing valve GD30



### GD30S with BSPT inside threaded

Article no.	CONNECTION	REGULATING SPAN		DIMENSIONS (mm)			OTHER
	BSPT	P2 (bar)	Spring colour	L	H	H1	Weight (kg)
99151140	1/2"	0,5-4	blå	80	190	47	1,9
99151141	3/4"	0,5-4	blå	85	190	47	1,9
99151142	1"	0,5-4	blå	95	190	47	2,0
99151143	1/2"	3,5-10	grøn	80	190	47	1,9
99151144	3/4"	3,5-10	grøn	85	190	47	1,9
99151145	1"	3,5-10	grøn	95	190	47	2,0
99151146	1/2"	0,2-1,0	gul	80	190	47	1,9
99151147	3/4"	0,2-1,0	gul	85	190	47	1,9
99151148	1"	0,2-1,0	gul	95	190	47	2,0

## Pressure reducing valves



### Pressure reducing valve, direct acting Type : GP-2000

**Pilot controlled**

**Suitable for:** Steam

- \* Compact with high performance.
- \* High accuracy also at max. capacity.
- \* Parabolic plug.
- \* Pilot valve functions according to pull-up principal which gives better tightness and longer lifetime.
- \* Large membrane gives better sensibility.

#### Specifications

**Type** : GP-2000  
**Material** : Ductile iron ASTM A536  
**Pressure** : PN25.  
**Max.working pressure:** 20 bar (30 bar in steel execution)  
**Valve/seat** : Stainless steel AISI 420 / AISI 304  
**Valve/seat(pilot)** : Stainless steel AISI 420  
**Membrane** : Stainless steel AISI 301

**Min. differential pressure:** 0,5 bar  
**Max.pressure reduktion:** 85% of inlet pressure  
**Leak rate** : ≤0,01%  
**Accuracy** : +/- 1%  
**Regulating span** : 20:1  
**Connection** : Flanged PN40 (DIN 2545)  
 : Option: BSPT-, NPT-inside threaded or ANSI flanges.

**Temperature** : max. 230°C

### Type GP 2000 inside threaded, green spring

Article no.	Connection	P2 (bar)	Dimension (mm)					Kv	Weight (kg)
			Face to face	H	H1	A			
99151012	1/2"	1-14	150	400	171	202	4,3	15,5	
99151013	3/4"	1-14	150	400	171	202	6,2	15,5	
99151014	1"	1-14	160	405	176	227	9,4	19,8	
99151015	1 1/4"	1-14	180	434	192	227	12,3	23	
99151016	1 1/2"	1-14	180	434	192	227	16,2	23	
99151017	2"	1-14	230	498	216	276	27,5	34,5	

### Type GP 2000 with flanges PN40, green spring

Article no.	Connection	P2 (bar)	Dimension (mm)					Kv	Weight (kg)
			Face to face	H	H1	A			
99151001	DN 15	1-14	150	400	171	202	4,3	17,2	
99151002	DN 20	1-14	150	400	171	202	6,2	17,9	
99151003	DN 25	1-14	160	405	176	227	9,4	22,4	
99151004	DN 32	1-14	180	434	192	227	12,3	26,2	
99151005	DN 40	1-14	200	434	192	227	16,2	27,1	
99151006	DN 50	1-14	230	498	216	276	27,5	39,3	
99151008	DN 65	1-14	290	552	251	352	51,6	68,5	
99151009	DN 80	1-14	310	575	264	352	67	75	
99151010	DN 100	1-14	350	656	321	401	103	117	
99151011	DN 150	1-14	480	806	692	502	215	252	

- Other spring spans (P2): 0,20 - 1,5 bar or 0,07 - 0,2 bar.

## Pressure reducing valves

Capacity table for steam (kg/t), DN 15-40,( covers type GP2000, GP2000R, GD2000K)

Inlet Bar	Outlet Bar	Dimensions (mm)				
		1/2"(15)	3/4"(20)	1"(25)	1 1/4"(32)	1 1/2"(40)
1,0	0,5	89	128	194	255	335
1,5	1,0	101	145	220	289	380
	0,2	146	210	318	418	549
2,0	1,5	111	161	243	320	420
	0,2-0,5	175	252	382	501	659
3,0	2,5	130	188	284	373	491
	0,2-1,0	234	336	510	669	879
4,0	3,0	202	291	441	579	761
	0,2-1,5	292	421	637	836	1099
5,0	4,0	223	322	487	640	841
	3,0	301	434	658	863	1134
	0,5-2,0	351	505	765	1003	1319
6,0	5,0	243	350	530	695	914
	3,5	361	521	788	1035	1360
	0,5-2,5	409	589	892	1171	1539
7,0	5,5	314	453	686	900	1183
	4,0	421	606	918	1205	1584
	0,5-3,0	468	673	1020	1338	1759
8,0	6,5	335	483	732	960	1262
	5,0	452	652	987	1295	1702
	0,5-3,5	526	758	1147	1505	1979
10,0	8,5	374	538	815	1070	1407
	7,0	509	733	1110	1457	1916
	0,5-4,5	643	926	1402	1840	2419
12,0	10,0	467	673	1019	1337	1758
	8,0	633	911	1380	1810	2380
	1,0-5,5	760	1095	1657	2175	2859
14,0	11,5	559	805	1220	1600	2104
	9,0	754	1086	1645	2158	2837
	1,0-6,5	877	1263	1912	2509	3299
15,0	12,5	579	834	1263	1657	2179
	10,0	784	1129	1709	2242	2948
	1,0-7,0	936	1347	2040	2676	3519
17,5	14,0	730	1052	1593	2090	2748
	12,0	888	1279	1936	2540	3340
	1,0-8,0	1082	1558	2359	3095	4069
20	14,0	992	1428	2162	2837	3729
	12,0	1113	1603	2426	3183	4185
	1,0-9,5	1228	1769	2678	3513	4619
30	17,5	1680	2420	3662	4805	6317
	1,5-14,0	1813	2611	3953	5187	6319

Capacity table for steam (kg/t), DN 50-150,( covers type GP2000, GP2000R, GD2000K)

Inlet Bar	Outlet Bar	Dimensions (mm)				
		2"(50)	2 1/2"(65)	3"(80)	4"(100)	6"(150)
1,0	0,5	571	1071	1392	2142	4465
1,5	1,0	648	1215	1580	2430	5063
	0,2 (0,5)	936	1755	2282	3510	(6750)
2,0	1,5 (1,0)	716	1343	1745	2686	(7547)
	0,2-0,5 (0,5)	1123	2105	2737	4210	(8756)
3,0	2,5 (2,0)	836	1568	2038	3136	(8929)
	0,2-1,0 (1,0)	1497	2808	3651	5616	(11691)
4,0	3,0	1296	2430	3159	4860	10125
	0,2-1,5 (2,0) (0,5-1,0)	1872	3510	4563	7020	(13500) (14625)
5,0	4,0	1432	2685	3493	5370	11194
	3,0	1931	3621	4709	7242	15093
	0,5-2,0	2246	4211	5475	8422	17537
6,0	5,0	1557	2919	3795	5838	12169
	3,5 (4,0)	2316	4342	5645	8684	(16534)
	0,5-2,5 (3,0) (0,5-2,0)	2620	4913	6386	9826	(19388) (20475)

## Pressure reducing valves

Inlet Bar	Outlet Bar	Dimensions (mm)				
		2"(50)	2 1/2"(65)	3"(80)	4"(100)	6"(150)
7,0	5,5 (5,0)	2014	3776	4909	7552	(17859)
	4,0 (4,0)	2697	5059	6574	10118	(21077)
	0,5-3,0 (3,0) (0,5-2,0)	2995	5615	7300	11230	(23383) (23400)
8,0	6,5	2149	4030	5238	8060	
	5,0	2897	5434	7062	10868	22640
	0,5-3,5 (4,0) (0,5-3,0)	3369	6319	8214	12638	(25256) (26325)
10,0	8,5 (8,0)	2395	4493	5840	8986	(21345)
	7,0 (5,0)	3261	6114	7949	12228	(31116)
	0,5-4,5 (0,5-4,0)	4118	7721	10038	15442	(32175)
12,0	10,0	2992	5612	7295	11224	
	8,0	4052	7597	9877	15194	31660
	1,0-5,5 (1,0-5,0)	4867	9126	11863	18252	(38025)
14,0	11,5 (11,0)	3581	6714	8731	13428	(30375)
	9,0 (8,0)	4829	9056	11771	18112	(40500)
	1,0-6,5 (1,0-5,0)	5616	10530	13689	21060	(43875)
15,0	12,5 (11,0)	3709	6956	9043	13912	(35718)
	10,0 (8,0)	5019	9411	12233	18822	(44647)
	1,0-7,0 (1,0-5,0)	5990	11231	14600	22462	(46800)
17,5	14,0	4677	8771	11403	17542	36545
	12,0 (11,0)	5686	10661	13860	21322	(47520)
	1,0-8,0	6926	12986	16882	25972	54113
20	14,0	6348	11904	15476	23808	49602
	12,0 (11,0)	7124	13358	17365	26716	(58162)
	1,0-9,5 (1,0-8,0)	7862	14741	19164	29482	(61425)
30	17,5	10752				
	1,5-14,0	11606				

## Pressure reducing valves

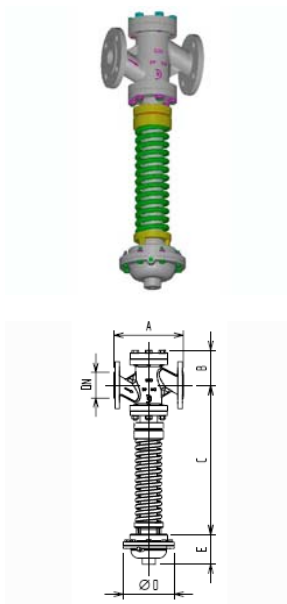
<b>Pressure reducing valve, direct acting</b>		<b>Type : DRV 225</b>
<b>Spring loaded</b>		
<b>Suitable for:</b> Compressed air, neutral gasses and water. Not to be used for steam.		
* Gauge connection on both sides 1/4"		
<b>Specifications</b>		
<b>Type</b>	: <b>DRV 225</b>	
<b>Material</b>	: <b>Bronze G-CuSn5ZnPb (RG5)</b>	
<b>Pressure</b>	: Up to 40 bar	
<b>Reduced pressure</b>	: 1,5 to 20 bar	
<b>Reduction ratio</b>	: 6:1	
<b>Spring housing</b>	: ≤DN 25 pressed brass	
	: ≥DN 32 cast iron	
<b>Sealing</b>	: NBR	
<b>Connections</b>	: Female threaded acc. to ISO 228	
<b>Temperature</b>	: max. 75°C	



### Type DRV 225 threaded

Article no.	DIMENSIONS (mm)				OTHER
	DN	L	h2	h1	Kvs-value m <sup>3</sup> /h
35300537	1/4"	70	48	130	0,5
30501003	3/8"	70	48	130	0,6
30501004	1/2	85	48	140	1,2
30508015	3/4"	85	48	140	1,3
30501008	1"	95	55	185	1,6
30508323	1 1/4"	104	61	230	4,2
35300538	1 1/2"	108	61	230	4,5
35300539	2"	147	64	295	7,2

## Pressure reducing valves



Pressure reducing valve, self-actuated		Type : RP13
<b>Direct action single seat type</b>		
Suitable for: Steam, air, gases and water		
*		
<b>Specifications</b>		
Type	: RP13	
Material	: Cast iron EN-GJL-250	
Pressure rating	: PN16	
Max. working pressure:	: Steam, air and gases:	
	: DN15 - DN50 : 23 bar	
	: DN65 : 16 bar	
	: DN80 : 12 bar	
	: DN100 : 9 bar	
	: Water:	
	: DN15 - DN50 : 8 bar	
	: DN65 : 5 bar	
	: DN80 : 4 bar	
	: DN100 : 3 bar	
Temperature max.	: 220°C	
Seat	: Stainless steel AISI 304	
Plug	: Stainless steel AISI 304	
Spring	: DN15 - DN50 : steel 85.8	
	: DN65 DN100 : 52SiCrNi5	
Diaphragm	: Rubbertex T60-80	
Diaphragm housing	: Cast iron	
Regulating span	: 5:1 to 16:1 depending on size	
Connection	: Flanged UNI 2238 - DIN 2501 PN16	
Actuator	: Female screwed ISO 7 (BSP) Rp 3/8"	
Face to face	: EN 558-1 (DIN3202)	

### Type RP13

Article no.	Connection	P2 (bar)	Dimensions (mm)					Weight (kg)
			A	B	C	E	ØD	
30100008	DN 15	3-8	130	47,5	340	94	149	9,0
30100009	DN 15	1-5	130	47,5	340	93	162	10,5
30100010	DN 15	0,5-3	130	47,5	340	96	188	12,0
30100011	DN 15	0,2-1,5	130	47,5	340	93	226	15,5
30100012	DN 20	3-8	150	52,5	333	94	149	10,0
30100013	DN 20	1-5	150	52,5	333	93	162	11,5
30100014	DN 20	0,5-3	150	52,5	333	96	188	13,0
30100015	DN 20	0,2-1,5	150	52,5	333	93	226	16,5
30100016	DN 25	3-8	160	57,5	424	94	149	14,0
30100017	DN 25	1-5	160	57,5	424	93	162	15,5
30100018	DN 25	0,5-3	160	57,5	424	96	188	17,0
30100019	DN 25	0,2-1,5	160	57,5	424	93	226	20,5
30100020	DN 32	3-8	180	70	427	94	149	15,0
30100021	DN 32	1-5	180	70	427	93	162	16,5
30100022	DN 32	0,5-3	180	70	427	96	188	18,0
30100023	DN 32	0,2-1,5	180	70	427	93	226	21,5
30100024	DN 40	3-8	200	75	476	94	149	21,0
30100025	DN 40	1-5	200	75	476	93	162	22,5
30100026	DN 40	0,5-3	200	75	476	96	188	24,0
30100027	DN 40	0,2-1,5	200	75	476	93	226	27,5
30100028	DN 50	3-8	230	82,5	482	94	149	23,5
30100029	DN 50	1-5	230	82,5	482	93	162	25,0



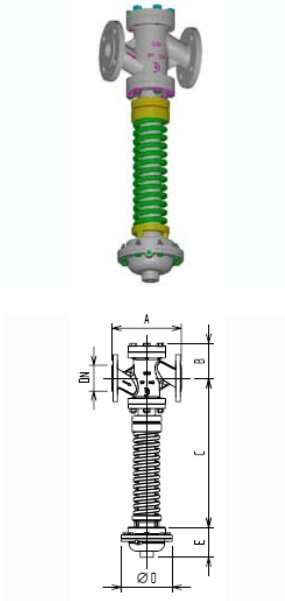
## Pressure reducing valves

Article no.	Connection	P2 (bar)	Dimensions (mm)					Weight (kg)
			A	B	C	E	ØD	
30100030	DN 50	0,5-3	230	82,5	482	96	188	26,5
30100031	DN 50	0,2-1,5	230	82,5	482	93	226	30,0
30100032	DN 65	3-8	290	92,5	535	94	149	40,5
30100033	DN 65	1-5	290	92,5	535	93	162	42,0
30100034	DN 65	0,5-3	290	92,5	535	96	188	43,5
30100035	DN 65	0,2-1,5	290	92,5	535	93	226	47,0
30100036	DN 80	3-8	310	100	568	94	149	47,5
30100037	DN 80	1-5	310	100	568	93	162	49,0
30100038	DN 80	0,5-3	310	100	568	96	188	50,5
30100039	DN 80	0,2-1,5	310	100	568	93	226	54,0
30100040	DN 100	3-8	350	110	578	94	149	57,0
30100041	DN 100	1-5	350	110	578	93	162	58,5
30100042	DN 100	0,5-3	350	110	578	96	188	60,0
30100043	DN 100	0,2-1,5	350	110	578	93	226	63,5

### Mounting kit

Article no.						Weight (Kg)
30990002	For steam					2,2
30990001	For liquid, air and gases					0,2

## Pressure reducing valves



Pressure reducing valve, self-actuated		Type : RP13
<b>Direct action single seat type</b>		
Suitable for: Steam, air, gases and water		
*		
<b>Specifications</b>		
Type	: RP13	
Material	: Carbon steel 1.0619	
Pressurerating	: PN40	
Max.working pressure:	: Steam, air and gases:	
	: DN15 - DN50 : 23 bar	
	: DN65 : 16 bar	
	: DN80 : 12 bar	
	: DN100 : 9 bar	
	: Water:	
	: DN15 - DN50 : 8 bar	
	: DN65 : 5 bar	
	: DN80 : 4 bar	
	: DN100 : 3 bar	
Temperature max.	: 220°C	
Seat	: Stainless steel AISI 304	
Plug	: Stainless steel AISI 304	
Spring	: DN15 - DN50 : steel 85.8	
	: DN65 DN100 : 52SiCrNi5	
Diaphragm	: Rubbertex T60-80	
Diaphragm housing	: Cast iron	
Regulating span	: 5:1 to 16:1 depending on size	
Connection	: Flanged UNI 2238 - DIN 2501 PN40	
Actuator	: Female screwed ISO 7 (BSP) Rp 3/8"	
Face to face	: EN 558-1 (DIN3202)	

### Type RP13

Article no.	Connection	P2 (bar)	Dimensions (mm)					ØD	Weight (kg)
			A	B	C	E			
30300024	DN 15	3-8	130	47,5	340	94	149	9,0	
30300025	DN 15	1-5	130	47,5	340	93	162	10,5	
30300026	DN 15	0,5-3	130	47,5	340	96	188	12,0	
30300027	DN 15	0,2-1,5	130	47,5	340	93	226	15,5	
30300028	DN 20	3-8	150	52,5	333	94	149	10,0	
30300029	DN 20	1-5	150	52,5	333	93	162	11,5	
30300030	DN 20	0,5-3	150	52,5	333	96	188	13,0	
30300031	DN 20	0,2-1,5	150	52,5	333	93	226	16,5	
30300032	DN 25	3-8	160	57,5	424	94	149	14,0	
30300033	DN 25	1-5	160	57,5	424	93	162	15,5	
30300034	DN 25	0,5-3	160	57,5	424	96	188	17,0	
30300035	DN 25	0,2-1,5	160	57,5	424	93	226	20,5	
30300036	DN 32	3-8	180	70	427	94	149	15,0	
30300037	DN 32	1-5	180	70	427	93	162	16,5	
30300038	DN 32	0,5-3	180	70	427	96	188	18,0	
30300039	DN 32	0,2-1,5	180	70	427	93	226	21,5	
30300040	DN 40	3-8	200	75	476	94	149	21,0	
30300041	DN 40	1-5	200	75	476	93	162	22,5	
30300042	DN 40	0,5-3	200	75	476	96	188	24,0	
30300043	DN 40	0,2-1,5	200	75	476	93	226	27,5	
30300044	DN 50	3-8	230	82,5	482	94	149	23,5	
30300045	DN 50	1-5	230	82,5	482	93	162	25,0	

## Pressure reducing valves

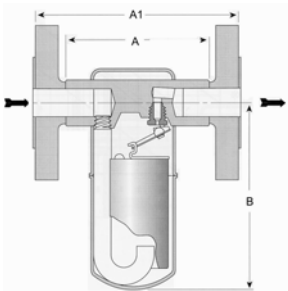
Article no.	Connection	P2 (bar)	Dimensions (mm)					Weight (kg)
			A	B	C	E	ØD	
30300046	DN 50	0,5-3	230	82,5	482	96	188	26,5
30300047	DN 50	0,2-1,5	230	82,5	482	93	226	30,0
30300048	DN 65	3-8	290	92,5	535	94	149	40,5
30300049	DN 65	1-5	290	92,5	535	93	162	42,0
30300050	DN 65	0,5-3	290	92,5	535	96	188	43,5
30300051	DN 65	0,2-1,5	290	92,5	535	93	226	47,0
30300052	DN 80	3-8	310	100	568	94	149	47,5
30300053	DN 80	1-5	310	100	568	93	162	49,0
30300054	DN 80	0,5-3	310	100	568	96	188	50,5
30300055	DN 80	0,2-1,5	310	100	568	93	226	54,0
30300056	DN 100	3-8	350	118	578	94	149	57,0
30300057	DN 100	1-5	350	118	578	93	162	58,5
30300058	DN 100	0,5-3	350	118	578	96	188	60,0
30300059	DN 100	0,2-1,5	350	118	578	93	226	63,5

### Mounting kit

Article no.						Weight (Kg)
30990002	For steam					2,2
30990001	For liquid, air and gases					0,2

# Steam Traps

## Steam Traps, stainless steel



### Armstrong Inverted Bucket Trap Type : 1800 Series

#### Serie 1800 Stainless Steel for Horizontal Installation

**Suitable for:** Steam Systems up to 45 bar

- \* Long trouble-free service life
- \* Excellent purging action
- \* Continuous air venting at steam temperature
- \* Freeze resistant

#### Specifications

<b>Type</b>	: <b>1800 Series</b>
<b>Material</b>	: <b>Stainless Steel 304L</b>
<b>Internals</b>	: All stainless steel 304
<b>Valve and seat</b>	: Hardened chrome steel-440F(≤38 bar), Titanium (≥38 bar)
<b>Flanges</b>	: Steel, option stainless steel
<b>Max.allowable pres. :</b>	
427°C	: Type 1810 & 1811: 28 bar
315°C	: Type 1822: 45 bar
<b>Max.operating pres. :</b>	
316°C, 43 bar	: Type 1810: 14 bar
371°C, 41,6 bar	: Type 1811: 28 bar
427°C	: Type 1822: 45 bar
<b>Max. back pressure :</b>	99% of inlet pressure
<b>Connections</b>	: Screwed BSPT or NPT. Socket weld: Flanged DIN PN 40 or ANSI, welded on
<b>Options</b>	: Other orifices (pmx), Insu-Pak Insulation for Models 1810/1811 In-Line Check Valve, Large Airvent, Probe connection

Capacity charts can be required

### Type 1810 Screwed BSPT

Article no.	Connection	Orifice	Pressure(bar) / Capacity		Dimensions mm		Weight(kg)
			Max.ΔP	Kg/h	A	B	
99011200	1/2"	3/16"	2,0	400	110	113	0,8
99011201	1/2"	5/32"	3,5	450	110	113	0,8
99011018	1/2"	1/8 "	8,0	420	110	113	0,8
99011202	1/2"	7/64"	10,5	370	110	113	0,8
99011038	1/2"	#38	14,0	400	110	113	0,8
99011203	3/4"	#38	14,0	400	110	113	0,8

### Type 1810 Socket Weld

Article no.	Connection	Orifice	Pressure(bar) / Capacity		Dimensions mm		Weight(kg)
			Max.ΔP	Kg/h	A	B	
	1/2"	5/32"	3,5	450	110	113	0,8
	1/2"	1/8 "	8,0	420	110	113	0,8
	1/2"	7/64"	10,5	370	110	113	0,8
	1/2"	#38	14,0	400	110	113	0,8

## Steam Traps, stainless steel

### Type 1810 DIN PN 40 flanged

Article no.	Connection	Orifice	Pressure / Capacity		Dimensions mm		Weight (kg)
			Max.ΔP	Kg/h	A1	B	
99011204	DN 15	3/16"	2,0	400	150	113	2,3
99011205	DN 15	5/32"	3,5	450	150	113	2,3
99011206	DN 15	1/8 "	8,0	420	150	113	2,3
99011207	DN 15	7/64"	10,5	370	150	113	2,3
99011208	DN 15	#38	14,0	400	150	113	2,3
99011209	DN 20	5/32"	3,5	450	150	116	2,8
99011210	DN 20	1/8 "	8,0	420	150	116	2,8
99011211	DN 20	7/64"	10,5	370	150	116	2,8
99011212	DN 20	#38	14,0	400	150	116	2,8
99011213	DN 25	5/32"	3,5	450	160	116	3,3
99011214	DN 25	1/8 "	8,0	420	160	116	3,3
99011215	DN 25	7/64"	10,5	370	160	116	3,3
99011216	DN 25	#38	14,0	400	160	116	3,3

### Type 1811 Screwed BSPT

Article no.	Connection	Orifice	Pressure(bar) / Capacity		Dimensions mm		Weight (kg)
			Max.ΔP	Kg/h	A	B	
99011300	1/2"	1/4 "	1,0	450	110	138	0,9
99018097	1/2"	3/16"	2,0	420	110	138	0,9
99011532	1/2"	5/32"	5,0	500	110	138	0,9
99011302	1/2"	1/8 "	8,5	450	110	138	0,9
99011764	1/2"	7/64"	14,0	400	110	138	0,9
99011303	1/2"	#38	17,0	420	110	138	0,9
99011015	1/2"	5/64"	28,0	310	110	138	0,9
99011304	3/4"	1/4 "	1,0	450	110	141	1,0
99011305	3/4"	5/32"	5,0	500	110	141	1,0
99011306	3/4"	1/8 "	8,5	450	110	141	1,0
99011307	3/4"	7/64"	14,0	400	110	141	1,0
99011308	3/4"	#38	17,0	420	110	141	1,0
99011309	3/4"	5/64"	28,0	310	110	141	1,0

### Type 1811 Screwed NPT

Article no.	Connection	Orifice	Pressure(bar) / kapacitet		Dimensions mm		Weight (kg)
			Max.ΔP	Kg/h	A	B	
99018045	1/2"	1/8 "	8,5	450	110	138	0,9
	1/2"	7/64"	14,0	400	110	138	0,9
99018131	1/2"	5/64"	28,0	310	110	138	0,9
	3/4"	7/64"	14,0	400	110	141	1,0
99018067	3/4"	#38	17,0	420	110	141	1,0
	3/4"	5/64"	28,0	310	110	141	1,0

### Type 1811 Socket Weld

Article no.	Connection	Orifice	Pressure(bar) / kapacitet		Dimensions mm		Weight (kg)
			Max.ΔP	Kg/h	A	B	
	1/2"	5/32"	5,0	500	110	138	
	1/2"	1/8 "	8,5	450	110	138	
	1/2"	7/64"	14,0	400	110	138	
	1/2"	#38	17,0	420	110	138	
	1/2"	5/64"	28,0	310	110	138	
	3/4"	5/32"	5,0	500	110	141	
	3/4"	1/8 "	8,5	450	110	141	



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## Steam Traps, stainless steel

Article no.	Connection	Orifice	Pressure(bar) / kapacitet		Dimensions mm		Weight (kg)
			Max.ΔP	Kg/h	A	B	
	3/4"	7/64"	14,0	400	110	141	1,0
	3/4"	#38	17,0	420	110	141	1,0
	3/4"	5/64"	28,0	310	110	141	1,0

### Type 1811 DIN PN 40 flanged

Article no.	Connection	Orifice	Pressure(bar) / kapacitet		Dimensions mm		Weight (kg)
			Max.ΔP	Kg/h	A1	B	
99011316	DN 15	5/32"	5,0	500	150	138	2,5
99011317	DN 15	1/8 "	8,5	450	150	138	2,5
99011318	DN 15	7/64"	14,0	400	150	138	2,5
99011319	DN 15	#38	17,0	420	150	138	2,5
99011320	DN 15	5/64"	28,0	310	150	138	2,5
99011321	DN 20	5/32"	5,0	500	150	141	3,2
99011322	DN 20	1/8 "	8,5	450	150	141	3,2
99011323	DN 20	7/64"	14,0	400	150	141	3,2
99011324	DN 20	#38	17,0	420	150	141	3,2
99011325	DN 20	5/64"	28,0	310	150	141	3,2
99011326	DN 25	5/32"	5,0	500	160	141	3,6
99011327	DN 25	1/8 "	8,5	450	160	141	3,6
99011328	DN 25	7/64"	14,0	400	160	141	3,6
99011329	DN 25	#38	17,0	420	160	141	3,6
99011330	DN 25	5/64"	28,0	310	160	141	3,6

### Type 1822 Screwed BSPT

Article no.	Connection	Orifice	Pressure(bar) / kapacitet		Dimensions mm		Weight (kg)
			Max.ΔP	Kg/h	A	B	
99011399	1/2"	3/16"	5,5	810	127	186	3,0
99011401	3/4"	5/32"	8,5	800	127	186	3,0
99011402	3/4"	1/8 "	17,0	700	127	186	3,0
99011403	3/4"	7/64"	21,0	600	127	186	3,0
99011404	3/4"	#38	41,5	700	127	186	3,0
99011405	1 "	1/4 "	2,6	800	127	181	3,0
99011406	1 "	5/32"	8,5	800	127	181	3,0
99011407	1 "	1/8 "	17,0	700	127	181	3,0
99011408	1 "	7/64"	21,0	600	127	181	3,0
99011409	1 "	#38	41,5	700	127	181	3,0
99011410	1 "	5/64"	45	510	127	186	3,0

### Type 1822 Socket Weld

Article no.	Connection	Orifice	Pressure(bar) / Capacity		Dimensions mm		Weight (kg)
			Max.ΔP	kg/h	A	B	
	3/4"	5/32"	8,5	800	127	186	3,0
	3/4"	1/8 "	17,0	700	127	186	3,0
	3/4"	7/64"	21,0	600	127	186	3,0
	3/4"	#38	41,5	700	127	186	3,0
	1 "	5/32"	8,5	800	127	186	3,0
	1 "	1/8 "	17,0	700	127	186	3,0
	1 "	7/64"	21,0	600	127	186	3,0
	1 "	#38	41,5	700	127	186	3,0
	1 "	5/64"	45	510	127	186	3,0

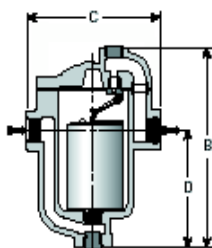
## Steam Traps, stainless steel

Type 1822 DIN PN 40 flanged

Article no.	Connection	Orifice	Pressure(bar) / Capacity		Dimensions mm		Weight (kg)
			Max.ΔP	Kg/h	A1	B	
99011411	DN 20	5/32"	8,5	800	190	186	5,2
99011412	DN 20	1/8 "	17,0	700	190	186	5,2
99011413	DN 20	7/64"	21,0	600	190	186	5,2
99011414	DN 20	#38	41,5	700	190	186	5,2
99011415	DN 25	5/32"	8,5	800	200	186	5,6
99011416	DN 25	1/8 "	17,0	700	200	186	5,6
99011417	DN 25	7/64"	21,0	600	200	186	5,6
99011418	DN 25	#38	41,5	700	200	186	5,6
99011419	DN 25	5/64	45	510	200	186	5,6



## Steam Traps, Cast iron



### Armstrong Inverted Bucket Trap Type : 800 Series

#### Serie 800 Cast Iron for Horizontal Installation

**Suitable for:** Steam Systems up to 17 bar

- \* Long trouble-free service life
- \* Excellent purging action
- \* Continuous air venting at steam temperature

#### Specifications

**Type** : 800 Series  
**Material** : Cast Iron GG20  
**Internals** : All stainless steel 304  
**Valve and seat** : Hardened chrome steel-440F  
**Test Plug** : Steel

Max. allowable pressure: 17 bar  
 232°C

Max. operating pressure: Type 800: 10 bar  
 : Type 811-816: 17 bar

Max. back pressure : 99% of inlet pressure

**Connections** : Screwed BSPT or NPT.  
 : Flanged DIN PN 16 or ANSI, Screwed on

**Options** : Other orifices (pmx),  
 : Internal Check Valve, Large Airvent, Probe connection, Pop-drain.

### Type 800 Screwed BSPT

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016015	1/2"	1/8 "	5,5	330	127	70	138	2,3
99016016	1/2"	7/64"	8,5	310	127	70	138	2,3
99016017	1/2"	# 38	10,5	280	127	70	138	2,3
99016020	3/4"	1/8 "	5,5	330	127	70	138	2,3
99016021	3/4"	7/64"	8,5	310	127	70	138	2,3
99016022	3/4"	# 38	10,5	280	127	70	138	2,3

### Type 811 Screwed BSPT

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016115	1/2"	5/32"	5,0	460	127	108	175	2,7
99016116	1/2"	1/8 "	8,5	450	127	108	175	2,7
99016117	1/2"	7/64"	14,0	410	127	108	175	2,7
99016120	3/4"	3/16	2,0	475	127	108	175	2,7
99016121	3/4"	5/32"	5,0	460	127	108	175	2,7
99016122	3/4"	1/8 "	8,5	450	127	108	175	2,7
99016123	3/4"	7/64"	14,0	410	127	108	175	2,7
99016125	1 "	5/32"	5,0	460	127	108	175	2,7
99016126	1 "	1/8 "	8,5	450	127	108	175	2,7
99016127	1 "	7/64"	14,0	410	127	108	175	2,7

### Type 812 Screwed BSPT

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016215	1/2"	3/16"	5,0	1010	165	137	230	6,8

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## Steam Traps, Cast iron

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016216	1/2"	5/32"	8,5	950	165	137	230	6,8
99016217	1/2"	1/8 "	14,0	770	165	137	230	6,8
99016220	3/4"	3/16"	5,0	1010	165	137	230	6,8
99016221	3/4"	5/32"	8,5	950	165	137	230	6,8
99016222	3/4"	1/8 "	14,0	770	165	137	230	6,8
99016223	3/4"	7/64"	17,0	620	165	137	230	6,8

### Type 812 DIN PN 16 Flanged

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016233	DN 15	3/16"	5,0	1010	233	137	230	8,2
99016234	DN 15	5/32"	8,5	950	233	137	230	8,2
99016235	DN 15	1/8 "	14,0	770	233	137	230	8,2
99016236	DN 20	3/16"	5,0	1010	229	137	230	9,0
99016237	DN 20	5/32"	8,5	950	229	137	230	9,0
99016238	DN 20	1/8 "	14,0	770	22	137	230	9,0

### Type 813 Screwed BSPT

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016320	3/4"	5/16"	4,0	2250	197	179	298	12,5
99016321	3/4"	9/32"	5,5	1900	197	179	298	12,5
99016322	3/4"	1/4 "	8,5	1850	197	179	298	12,5
99016323	3/4"	7/32"	12,5	1750	197	179	298	12,5
99016325	1 "	5/16"	4,0	2250	197	179	298	12,5
99016326	1 "	1/4 "	8,5	1850	197	179	298	12,5
99016327	1 "	7/32"	12,5	1750	197	179	298	12,5
99016328	1 "	3/16"	17	1700	197	179	298	12,5

### Type 813 DIN PN 16 Flanged

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016329	DN 20	5/16"	4,0	2250	261	179	298	14,3
99016330	DN 20	1/4 "	8,5	1900	261	179	298	14,3
99016331	DN 20	7/32"	12,5	1880	261	179	298	14,3
99016332	DN 25	5/16"	4,0	1750	261	179	298	14,8
99016333	DN 25	1/4 "	8,5	1850	261	179	298	14,8
99016334	DN 25	7/32"	12,5	1750	261	179	298	14,8

### Type 814 Screwed BSPT

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016425	1 "	3/8 "	4,0	3330	229	198	346	20,0
99016426	1 "	5/16"	8,5	3100	229	198	346	20,0
99016427	1 "	9/32"	12,5	2850	229	198	346	20,0
99016432	1 1/4"	3/8 "	4,0	3330	229	198	346	20,0
99016433	1 1/4"	5/16"	8,5	3100	229	198	346	20,0
99016434	1 1/4"	9/32"	12,5	2850	229	198	346	20,0

## Steam Traps, Cast iron

### Type 814 DIN PN 16 Flanged

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016435	DN 25	3/8 "	4,0	3330	293	198	346	23,0
99016436	DN 25	5/16"	8,5	3100	293	198	346	23,0
99016437	DN 25	9/32"	12,5	2850	293	198	346	23,0
99016438	DN 32	3/8 "	4,0	3330	355	198	346	24,6
99016439	DN 32	5/16"	8,5	3100	355	198	346	24,6
99016440	DN 32	9/32"	12,5	2850	355	198	346	24,6

### Type 815 Screwed BSPT

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016525	1 "	9/16"	2,0	4600	260	203	413	32,2
99016526	1 "	7/16"	4,0	4400	260	203	413	32,2
99016527	1 "	11/32"	9,0	5000	260	203	413	32,2
99016532	1 1/4"	9/16"	2,0	4600	260	203	413	32,2
99016533	1 1/4"	7/16"	4,0	4400	260	203	413	32,2
99016534	1 1/4"	11/32"	9,0	5000	260	203	413	32,2
99016540	1 1/2"	3/4 "	1,0	5000	260	203	413	32,2
99016541	1 1/2"	9/16"	2,0	4600	260	203	413	32,2
99016542	1 1/2"	7/16"	4,0	4400	260	203	413	32,2
99016543	1 1/2"	11/32"	9,0	5000	260	203	413	32,2
99016544	1 1/2"	1/4 "	17,0	3500	260	203	413	32,2
99016550	2 "	9/16"	2,0	4600	260	203	413	32,2
99016551	2 "	7/16"	4,0	4400	260	203	413	32,2
99016552	2 "	11/32"	9,0	5000	260	203	413	32,2

### Type 815 DIN PN 16 Flanged

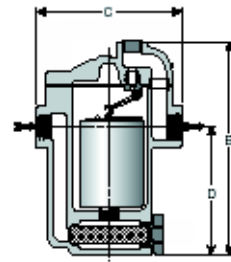
Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016441	DN 25	9/16"	2,0	4600	324	203	413	34,6
99016442	DN 25	7/16"	4,0	4400	324	203	413	34,6
99016443	DN 25	11/32"	9,0	5000	324	203	413	34,6
99016444	DN 32	9/16"	2,0	4600	386	203	413	36,2
99016445	DN 32	7/16"	4,0	4400	386	203	413	36,2
99016446	DN 32	11/32"	9,0	5000	386	203	413	36,2
99016447	DN 40	9/16"	2,0	4600	392	203	413	36,6
99016448	DN 40	7/16"	4,0	4400	392	203	413	36,6
99016449	DN 40	11/32"	9,0	5000	392	203	413	36,6
99016450	DN 40	5/16"	12,5	4900	392	203	413	36,6
99016451	DN 50	9/16"	2,0	4600	398	203	413	38,2
99016452	DN 50	7/16"	4,0	4400	398	203	413	38,2
99016453	DN 50	11/32"	9,0	5000	398	203	413	38,2
99016454	DN 50	5/16"	12,5	4900	398	203	413	38,2

### Type 816 DIN PN 16 Flanged

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/h	C	D	B	
99016555	DN 50	1-1/16"	1,0	8800	468	279	541	
99016556	DN 50	7/8 "	1,7	9000	468	279	541	
99016557	DN 50	5/8 "	4,0	9100	468	279	541	
99016558	DN 50	1/2 "	8,5	9100	468	279	541	
99016559	DN 50	7/16"	12,5	9100	468	279	541	

## Steam Traps, Cast iron

<b>Armstrong inverted bucket steam trap</b>		<b>Type : 880</b>
<b>Type 880 cast iron for horizontal flow and built in filter.</b>		
<b>Suitable for:</b> Discharge of condensate from steam systems		
<ul style="list-style-type: none"> <li>* Continuous discharge of condensate</li> <li>* Resistant towards wear, corrosion and water hammer</li> <li>* Vents air and CO2 at steam temperature</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>880</b>	
<b>Material</b>	: <b>Cast iron GG20</b>	
<b>Internal parts</b>	: <b>Stainless steel AISI 304</b>	
<b>Valve and seat</b>	: <b>Hardened chrome steel</b>	
<b>Test plug</b>	: <b>Carbon steel</b>	
<b>Max. steam pressure:</b>	Type 880: 10,5 bar	
	: Type 881-883: 17 bar	
<b>Max. back pressure:</b>	: Up to 99% of inlet pressure	
<b>Connection</b>	: BSPT-female threaded or flanges PN 16	
<b>Design temp.</b>	: Max. 232°C	
<b>Options</b>	: Other orifice sizes	
	: Other connections e.g. NPT or ANSI	
	: Built in check valve	
	: Larger vent hole or thermic vent	



### Type 880 with BSPT female threaded

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	Kg/t	C	D	B	
99013515	1/2"	1/8 "	5,5	330	127	87	154	2,5
99013516	1/2"	7/64"	8,5	310	127	87	154	2,5
99013517	1/2"	# 38	10,5	280	127	87	154	2,5
99013520	3/4"	1/8 "	5,5	330	127	87	154	2,5
99013521	3/4"	7/64"	8,5	310	127	87	154	2,5
99013522	3/4"	# 38	10,5	280	127	87	154	2,5

### Type 881 with BSPT female threaded

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/t	C	D	B	
99013615	1/2"	5/32"	5,0	460	127	113	179	2,7
99013616	1/2"	1/8 "	8,5	450	127	113	179	2,7
99013617	1/2"	7/64"	14,0	410	127	113	179	2,7
99013618	1/2"	#38	17,0	370	127	113	179	2,7
99013620	3/4"	5/32"	5,0	460	127	113	179	2,7
99013621	3/4"	1/8 "	8,5	450	127	113	179	2,7
99013622	3/4"	7/64"	14,0	410	127	113	179	2,7
99013625	1 "	5/32"	5,0	460	127	113	179	2,7
99013626	1 "	1/8 "	8,5	450	127	113	179	2,7
99013627	1 "	7/64"	14,0	410	127	113	179	2,7

### Type 881 Flanged PN 16

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/t	C	D	B	
99013715	DN 15	5/32"	5,0	460	195	113	179	4,2
99013716	DN 15	1/8 "	8,5	450	195	113	179	4,2

## Steam Traps, Cast iron

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/t	C	D	B	
99013717	DN 15	7/64"	14,0	410	195	113	179	4,2
99013720	DN 20	5/32"	5,0	460	191	113	179	4,8
99013721	DN 20	1/8 "	8,5	450	191	113	179	4,8
99013722	DN 20	7/64"	14,0	410	191	113	179	4,8
99013725	DN 25	5/32"	5,0	460	191	113	179	5,3
99013726	DN 25	1/8 "	8,5	450	191	113	179	5,3
99013727	DN 25	7/64"	14,0	410	191	113	179	5,3

### Type 882 with BSPT female threaded

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/t	C	D	B	
99013815	1/2"	3/16"	5,0	1010	165	146	244	7,0
99013816	1/2"	5/32"	8,5	950	165	146	244	7,0
99013817	1/2"	1/8 "	14,0	770	165	146	244	7,0
99013820	3/4"	3/16"	5,0	1010	165	146	244	7,0
99013821	3/4"	5/32"	8,5	950	165	146	244	7,0
99013822	3/4"	1/8 "	14,0	770	165	146	244	7,0

### Type 882 Flanged PN 16

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/t	C	D	B	
99013823	DN 15	3/16"	5,0	1010	233	146	244	8,8
99013824	DN 15	5/32"	8,5	950	233	146	244	8,8
99013825	DN 15	1/8 "	14,0	770	233	146	244	8,8
99013826	DN 20	3/16"	5,0	1010	229	146	244	9,4
99013827	DN 20	5/32"	8,5	950	229	146	244	9,4
99013828	DN 20	1/8 "	14,0	770	229	146	244	9,4

### Type 883 with BSPT female threaded

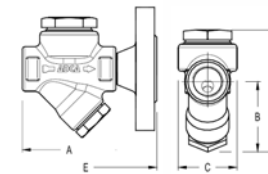
Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimension mm			Weight (kg)
			Max.ΔP	kg/t	C	D	B	
99013920	3/4"	5/16"	4,0	2250	200	187	314	14,1
99013921	3/4"	1/4 "	8,5	1850	200	187	314	14,1
99013922	3/4"	7/32"	12,5	1750	200	187	314	14,1
99013925	1 "	5/16"	4,0	2250	200	187	314	14,1
99013926	1 "	1/4 "	8,5	1850	200	187	314	14,1
99013927	1 "	7/32"	12,5	1750	200	187	314	14,1

### Type 883 Flanged PN 16

Article no.	Connection	Orifice	Pressure (bar) / Capacity		Dimensions mm			Weight (kg)
			Max.ΔP	kg/t	C	D	B	
99013928	DN 20	5/16"	4,0	2250	264	187	314	15,6
99013929	DN 20	1/4 "	8,5	1850	264	187	314	15,6
99013930	DN 20	7/32"	12,5	1750	264	187	314	15,6
99013931	DN 25	5/16"	4,0	2250	264	187	314	16,1
99013932	DN 25	1/4 "	8,5	1850	264	187	314	16,1
99013933	DN 25	7/32"	12,5	1750	264	187	314	16,1

## Thermodynamic Steam Trap

Thermodynamic Steam Trap		Type : DT42S
<b>Steel Trap with Strainer</b>		
<b>Suitable for:</b> Steam systems up to 63 bar (Saturated and Super heated steam)		
<ul style="list-style-type: none"> <li>* Compact and lightweight.</li> <li>* Easy to install</li> <li>* Intermittent discharge</li> <li>* Can be installed all positions - horizontal recommended</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>DT42S</b>	
<b>Material</b>	: <b>Carbon steel C22.8</b>	
Cover	: Stainless Steel 304 / 1.4301	
Valve disc and Seat	: Hardened Stainless Steel	
Strainer Screen	: Stainless Steel AISI 304	
Plug	: Carbon steel C22,8	
Max. allowable pres.:	63 bar	
400°C		
Max. operating pres.:	Min. 0,25 bar / Maks. 42 bar	
300°C		
Max. back pressure :	80% of inlet pressure	
Connections	: Screwed ISO7/1 Rp (BSP)	
	: Flanged EN1092-1 (DIN) PN40, PN63 or ANSI	
Options	: Insulation cap	
	: Blow-off valve strainer	
	: Shut-off valve	



### Type DT42S Screwed ISO7/1 RP(BSP)

Article no.	Connection	Max.ΔP	Dimensions mm					Weight (kg)
			A	B	C	D	E	
45300014	1/2"	42	80	56	46	96		1,0
45300015	3/4"	42	80	56	52	105		2,0
45300016	1"	42	80	56	62	115		1,8

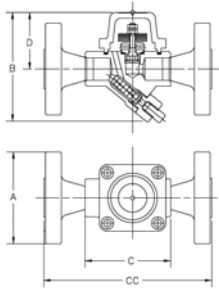
### Type DT42S DIN PN 40 flanged

Article no.	Connection	Max.ΔP	Dimensions mm					Weight (kg)
			A	B	C	D	E	
45300017	DN 15	42		56	46	96	150	2,5
45300018	DN 20	42		56	52	105	150	3,3
45300019	DN 25	42		56	62	115	160	4,4

### Capacity (kg/h)

ΔP(bar)	0,5	1	3	6	12	15	18	21	24	30	41			
1/2"- DN15	200	210	350	480	660	740	800	850	910	1020	1200			
3/4"- DN20	310	320	520	720	980	1050	1175	1220	1350	1500	1750			
1" - DN25	470	485	800	1100	1500	1750	1800	1950	2100	2300	2720			

## Bimetal Steam Trap



### Bimetal Steam Trap

Type : SH-300

#### SH-300 Steel with strainer

**Suitable for:** Steam Systems up to 40 bar. Saturated and Super heated steam.

- \* Long lifetime due to boronized valve which prevent wiredrawing of valve and seat.
- \* Compact and lightweight.
- \* Easy to install.
- \* Can be mounted in all directions.

#### Specifications

<b>Type</b>	: SH-300
<b>Material</b>	: carbon steel C22.8
Cover	: Carbon steel
Valve	: Chrome Steel- 440C
Seat	: Stainless steel AISI 303, Boronized (Hardness 1700HV)
Bimetal elements	: Nickel plated.
Strainer screen	: Stainless steel
Max. allowable pres.:	40 bar v/ 350°C
Max. operating pres.:	22 bar
Max. back pressure :	99% of inlet pressure
Connections	: Screwed BSPT or NPT. : Socket weld(SW) or Buttweld (BW) : Flanged DIN PN 40 or ANSI

### Type SH-300 Screwed BSPT

Article no.	Connection	Max. ΔP(bar)	Dimensions mm				Weight (kg)
			A	B	C	D	
99011040	1/2"	22	115	115	90	60	1,9
99011041	3/4"	22	115	115	90	60	1,9

### Type SH-300 DIN PN 40 Flanged

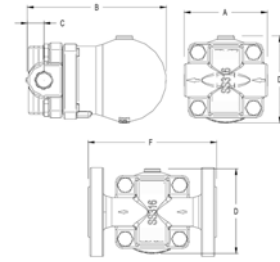
Article no.	Connection	Max. ΔP(bar)	Dimensions mm				Weight (kg)
			A1	B	CC	D	
99011042	DN 15	22	115	115	115	60	4,3
99011043	DN 20	22	115	115	150	60	4,5
99011044	DN 25	22	115	115	160	60	4,7

### Capacity(kg/h) for DN 15 - 25

ΔP(bar)	0,5	0,7	1,0	2,0	3,0	5,0	7,0	10,0	15,0	20,0	22,0			
tm -10°C	120	170	220	320	380	450	500	580	650	700	710			
tm -20°C	180	240	300	420	500	600	650	700	750	800	820			
tm -40°C	300	390	500	720	890	1000	1050	1100	1140	1150	1160			
Koldt	500	600	700	990	1100	1320	1500	1700	1850	2100	2200			

## Float and thermostatic steam traps

Float and thermostatic steam traps		Type : FLT-16
<b>Threaded or flanged</b>		
<b>Suitable for:</b> Saturated and superheated steam Unit heaters, heat exchangers, driers and jacketed vessels		
* Integral airvent * Modulating discharge * Discharges condensate at steam temperature * Unaffected by sudden or wide load and pressure changes * Excellent air discharge		
<b>Specifications</b> <b>Type</b> : FLT-16 <b>Material</b> : Nodular cast iron GGG40 Internal parts : Stainless steel AISI 410 / AISI 304 Valve : Stainless steel AISI 410 Seat : Stainless steel AISI 410 Air vent : Stainless steel  Design pressure : 16 bar Max. temperature : 250°C Max. operating press.: 14 bar Max. operating temp.: 198°C  Connection : Female screwed ISO 7/1 Rp (BS21) : Flanged DIN		



### Threaded connection

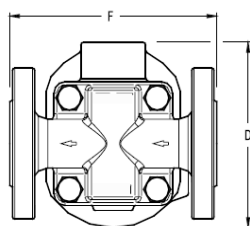
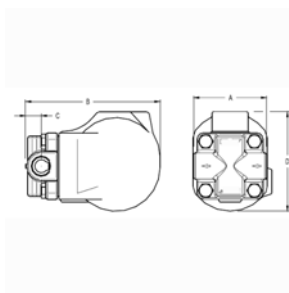
Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300118	FLT-16-4,5	1/2 "	4,5	495	150	122	108	68	3,5
45308121	FLT-16-4,5	3/4 "	4,5	495	150	122	108	68	3,5
45300119	FLT-16-10	1/2 "	10	405	150	122	108	68	3,5
45308122	FLT-16-10	3/4 "	10	405	150	122	108	68	3,5
45300120	FLT-16-14	1/2 "	14	300	150	122	108	68	3,5
45308123	FLT-16-14	3/4 "	14	300	150	122	108	68	3,5

### Flanged connection

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	F	D	C	
45300121	FLT-16-4,5	DN 15	4,5	495	150	150	108	68	4,4
45300122	FLT-16-4,5	DN 20	4,5	495	150	150	108	68	4,9
45300123	FLT-16-10	DN 15	10	405	150	150	108	68	4,4
45308134	FLT-16-10	DN 20	10	405	150	150	108	68	4,9
45300124	FLT-16-14	DN 15	14	300	150	150	108	68	4,4
45300125	FLT-16-14	DN 20	14	300	150	150	108	68	4,9



## Float and thermostatic steam traps



Float and thermostatic steam traps		Type : FLT-17
<b>Threaded or flanged</b>		
<b>Suitable for:</b> Saturated and superheated steam Unit heaters, heat exchangers, driers and jacketed vessels		
<ul style="list-style-type: none"> <li>* Integral airvent</li> <li>* Modulating discharge</li> <li>* Discharges condensate at steam temperature</li> <li>* Unaffected by sudden or wide load and pressure changes</li> <li>* Excellent air discharge</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>FLT-17</b>	
<b>Material</b>	: <b>Nodular cast iron GGG40</b>	
<b>Internal parts</b>	: <b>Stainless steel AISI 410 / AISI 304</b>	
<b>Valve</b>	: <b>Stainless steel AISI 410</b>	
<b>Seat</b>	: <b>Stainless steel AISI 410</b>	
<b>Air vent</b>	: <b>Stainless steel</b>	
<b>Design pressure</b>	: 16 bar	
<b>Max. temperature</b>	: 250°C	
<b>Max. operating press.:</b>	: 14 bar	
<b>Max. operating temp.:</b>	: 198°C	
<b>Connection</b>	: Female screwed ISO 7/1 Rp (BS21)	
	: Flanged DIN	

### Threaded connection, STD

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300074	FLT-17-4,5	1/2 "	4,5	495	178	95	128	23	5,2
45300075	FLT-17-4,5	3/4 "	4,5	495	178	95	128	23	5,2
45300076	FLT-17-4,5	1 "	4,5	495	178	95	128	23	5,2
45300086	FLT-17-4,5	1 1/2 "	4,5	7300	248	210	208	79	16,9
45300087	FLT-17-4,5	2 "	4,5	7300	248	210	208	79	17,5
45300077	FLT-17-10	1/2 "	10	405	178	95	128	23	5,2
45300078	FLT-17-10	3/4 "	10	405	178	95	128	23	5,2
45300079	FLT-17-10	1 "	10	405	178	95	128	23	5,2
45300088	FLT-17-10	1 1/2 "	10	6200	248	210	208	79	16,9
45300089	FLT-17-10	2 "	10	6200	248	210	208	79	17,5
45300080	FLT-17-14	1/2 "	14	300	178	95	128	23	5,2
45300081	FLT-17-14	3/4 "	14	300	178	95	128	23	5,2
45300082	FLT-17-14	1 "	14	300	178	95	128	23	5,2
45300090	FLT-17-14	1 1/2 "	14	4950	248	210	208	79	16,9
45300091	FLT-17-14	2 "	14	4950	248	210	208	79	17,5

### Threaded connection, LC

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300068	FLT-17LC-4,5	1/2 "	4,5	495	160	95	100	23	3,5
45300069	FLT-17LC-4,5	3/4 "	4,5	495	160	95	100	23	3,5
45300070	FLT-17LC-10	1/2 "	10	405	160	95	100	23	3,5
45300071	FLT-17LC-10	3/4 "	10	405	160	95	100	23	3,5
45300072	FLT-17LC-14	1/2 "	14	300	160	95	100	23	3,5
45300073	FLT-17LC-14	3/4 "	14	300	160	95	100	23	3,5

## Float and thermostatic steam traps

### Threaded connection, HC

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300083	FLT-17HC-4,5	1 "	4,5	2400	195	120	200	80	9,0
45300092	FLT-17HC-4,5	2 "	4,5	22500	250	300	266	126	21,6
45300084	FLT-17HC-10	1 "	10	1590	195	120	200	80	9,0
45300093	FLT-17HC-10	2 "	10	16000	250	300	266	126	21,6
45300085	FLT-17HC-14	1 "	14	1150	195	120	200	80	9,0
45300094	FLT-17HC-14	2 "	14	9800	250	300	266	126	21,6

### Flanged connection, STD

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300101	FLT-17-4,5	DN 15	4,5	495	178	150	128	23	6,7
45300102	FLT-17-4,5	DN 20	4,5	495	178	150	128	23	7,2
45308102	FLT-17-4,5	DN 25	4,5	495	178	160	128	23	7,7
45300110	FLT-17-4,5	DN 40	4,5	7300	248	230	208	79	20,3
45300111	FLT-17-4,5	DN 50	4,5	7300	248	230	208	79	22,2
45300103	FLT-17-10	DN 15	10	405	178	150	128	23	6,7
45300104	FLT-17-10	DN 20	10	405	178	150	128	23	7,2
45301225	FLT-17-10	DN 25	10	405	178	160	128	23	7,7
45300112	FLT-17-10	DN 40	10	6200	248	230	208	79	20,3
45300113	FLT-17-10	DN 50	10	6200	248	230	208	79	22,2
45300105	FLT-17-14	DN 15	14	300	178	150	128	23	6,7
45300106	FLT-17-14	DN 20	14	300	178	150	128	23	7,2
45300107	FLT-17-14	DN 25	14	300	178	160	128	23	7,7
45300114	FLT-17-14	DN 40	14	4950	248	230	208	79	20,3
45300115	FLT-17-14	DN 50	14	4950	248	230	208	79	22,2

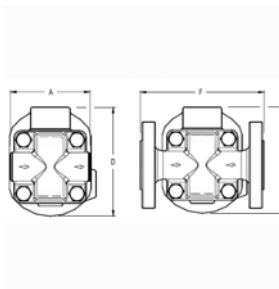
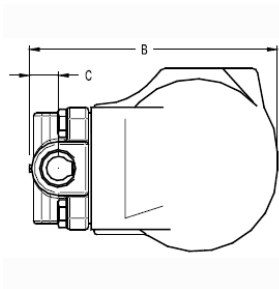
### Flanged connection, LC

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300095	FLT-17LC-4,5	DN 15	4,5	495	160	150	100	23	5,0
45300096	FLT-17LC-4,5	DN 20	4,5	495	160	150	100	23	5,5
45300097	FLT-17LC-10	DN 15	10	405	160	150	100	23	5,0
45300098	FLT-17LC-10	DN 20	10	405	160	150	100	23	5,5
45300099	FLT-17LC-14	DN 15	14	300	160	150	100	23	5,0
45300100	FLT-17LC-14	DN 20	14	300	160	150	100	23	5,5

### Flanged connection, HC

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300108	FLT-17HC-4,5	DN 25	4,5	2400	245	160	200	80	11,3
45308129	FLT-17HC-4,5	DN 50	4,5	22500	340	230	266	126	27,8
45308117	FLT-17HC-10	DN 25	10	1590	245	160	200	80	11,3
45300116	FLT-17HC-10	DN 50	10	16000	340	230	266	126	27,8
45300109	FLT-17HC-14	DN 25	14	1150	245	160	200	80	11,3
45300117	FLT-17HC-14	DN 50	14	9800	340	230	266	126	27,8

## Float and thermostatic steam traps



Float and thermostatic steam traps		Type : FLT-32
<b>Threaded or flanged</b>		
<b>Suitable for:</b> Saturated and superheated steam Unit heaters, heat exchangers, driers and jacketed vessels		
<ul style="list-style-type: none"> <li>* Integral airvent</li> <li>* Modulating discharge</li> <li>* Discharges condensate at steam temperature</li> <li>* Unaffected by sudden or wide load and pressure changes</li> <li>* Excellent air discharge</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>FLT-32</b>	
<b>Material</b>	: <b>STD DN15 - DN25 : C22.8, DN40 - DN50 : GP240GH, HC DN25 : GS-C25</b>	
<b>Cover</b>	: STD DN15 - DN25 : GS-C25, DN40 - DN50 : GP240 GH, HC DN 25 : GS-C25	
<b>Valve</b>	: Stainless steel AISI 410	
<b>Seat</b>	: Stainless steel AISI 410	
<b>Air vent</b>	: Stainless steel	
<b>Max. pressure</b>	: 40 bar	
<b>Max. temperature</b>	: 400°C	
<b>Max. operating press.:</b>	32 bar	
<b>Max. operating temp.:</b>	250°C	
<b>Connection</b>	: Female screwed ISO 7/1 Rp (BS21)	
	: Flanged DIN	

## Threaded connection, STD

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300020	FLT-32-4,5	1/2 "	4,5	630	178	95	128	23	5,2
45300021	FLT-32-4,5	3/4 "	4,5	630	178	95	128	23	5,2
45300022	FLT-32-4,5	1 "	4,5	630	178	95	128	23	5,2
45300036	FLT-32-4,5	1 1/2 "	4,5	7300	248	210	208	79	16,9
45300037	FLT-32-4,5	2 "	4,5	7300	248	210	208	79	17,5
45300023	FLT-32-10	1/2 "	10	595	178	95	128	23	5,2
45300024	FLT-32-10	3/4 "	10	595	178	95	128	23	5,2
45300025	FLT-32-10	1 "	10	595	178	95	128	23	5,2
45300038	FLT-32-10	1 1/2 "	10	6200	248	210	208	79	16,9
45300039	FLT-32-10	2 "	10	6200	248	210	208	79	17,5
45300026	FLT-32-14	1/2 "	14	550	178	95	128	23	5,2
45300027	FLT-32-14	3/4 "	14	550	178	95	128	23	5,2
45300028	FLT-32-14	1 "	14	550	178	95	128	23	5,2
45300040	FLT-32-14	1 1/2 "	14	4950	248	210	208	79	16,9
45300041	FLT-32-14	2 "	14	4950	248	210	208	79	17,5
45300029	FLT-32-21	1/2 "	21	300	178	95	128	23	5,2
45300030	FLT-32-21	3/4 "	21	300	178	95	128	23	5,2
45300031	FLT-32-21	1 "	21	300	178	95	128	23	5,2
45300042	FLT-32-21	1 1/2 "	21	5600	248	210	208	79	16,9
45300043	FLT-32-21	2 "	21	5600	248	210	208	79	17,5

## Float and thermostatic steam traps

### Threaded connection, HC

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300032	FLT-32HC-4,5	1 "	4,5	2400	195	120	190	80	9,0
45300033	FLT-32HC-10	1 "	10	1800	195	120	190	80	9,0
45300034	FLT-32HC-14	1 "	14	1380	195	120	190	80	9,0
45300035	FLT-32HC-21	1 "	21	1270	195	120	190	80	9,0

### Flanged connection, STD

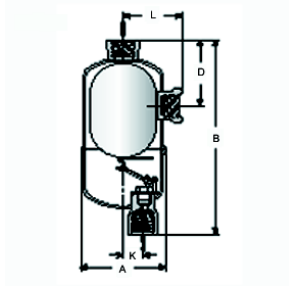
Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300044	FLT-32-4,5	DN 15	4,5	630	178	150	128	23	6,7
45300045	FLT-32-4,5	DN 20	4,5	630	178	150	128	23	7,2
45300046	FLT-32-4,5	DN 25	4,5	630	178	160	128	23	7,7
45300060	FLT-32-4,5	DN 40	4,5	7300	248	230	208	79	20,3
45300061	FLT-32-4,5	DN 50	4,5	7300	248	230	208	79	22,2
45300047	FLT-32-10	DN 15	10	595	178	150	128	23	6,7
45300048	FLT-32-10	DN 20	10	595	178	150	128	23	7,2
45300049	FLT-32-10	DN 25	10	595	178	160	128	23	7,7
45300062	FLT-32-10	DN 40	10	6200	248	230	208	79	20,3
45300063	FLT-32-10	DN 50	10	6200	248	230	208	79	22,2
45300050	FLT-32-14	DN 15	14	550	178	150	128	23	6,7
45300051	FLT-32-14	DN 20	14	550	178	150	128	23	7,2
45300052	FLT-32-14	DN 25	14	550	178	160	128	23	7,7
45300064	FLT-32-14	DN 40	14	4950	248	230	208	79	20,3
45300065	FLT-32-14	DN 50	14	4950	248	230	208	79	22,2
45300053	FLT-32-21	DN 15	21	300	178	150	128	23	6,7
45300054	FLT-32-21	DN 20	21	300	178	150	128	23	7,2
45300055	FLT-32-21	DN 25	21	300	178	150	128	23	7,7
45300066	FLT-32-21	DN 40	21	5600	248	230	208	79	20,3
56300067	FLT-32-21	DN 50	21	5600	248	230	208	79	22,2

### Flanged connection, HC

Article no.	Type	Size	Pressure (bar) /Capacity		Dimensions (mm)				Weight (kg)
			Max. ΔP	kg/h	B	A	D	C	
45300056	FLT-32HC-4,5	DN 25	4,5	2400	245	160	200	80	11,3
45300057	FLT-32HC-10	DN 25	10	1800	245	160	200	80	11,3
45300058	FLT-32HC-14	DN 25	14	1380	245	160	200	80	11,3
45300059	FLT-32HC-21	DN 25	21	1270	195	160	195	80	11,3

# Liquide Drainers

## Liquid drainers, stainless steel



### Armstrong liquid drainers Type : 22-LD

#### Vertical stainless steel liquid drainer, free floating type

**Suitable for:** Liquid discharge from air and gas systems.

- \* Light weight and compact
- \* Sturdy construction 100% Stainless steel
- \* Armstrong free floating valve /seat system ensures 100% tightness
- \* Floats for different specific gravity

#### Specifications

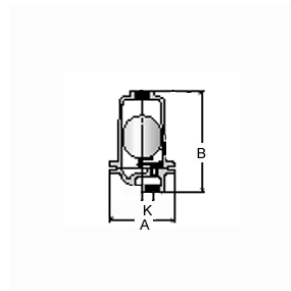
<b>Type</b>	: 22-LD
<b>Material</b>	: Stainless steel 304L
Internal parts	: Stainless steel AISI 304
Valve and seat	: Hardened chrom steel 440F
	: Option: AISI 316
Design pressure	: 41 bar
	38°C or 33 bar
	260°C
Working pressure	: See table, max. working pressure
	38°C and specific
	: gravity $\geq 1,00$
Connection	: BSPT or NPT-female threaded
	: Weld ends (S.W.)
	: Flanges acc. to specification
Temperature	: Max.260°C
When ordering	: Specify media, specific gravity, pressure, temperature and needed capacity.

### BSPT female threaded

Atricle no.	Connection		Max.ΔP bar	Dimensions mm				Weight (kg)
	All			A	B	D	K / L	
99014125	3/4"	1,5	100	224	76	22 / 67	1,5	
99014126	3/4"	2,5	100	224	76	22 / 67	1,5	
99014127	3/4"	5,5	100	224	76	22 / 67	1,5	
99014128	3/4"	9,4	100	224	76	22 / 67	1,5	
99014129	3/4"	16,1	100	224	76	22 / 67	1,5	
99014130	3/4"	20,6	100	224	76	22 / 67	1,5	
99014131	3/4"	25,7	100	224	76	22 / 67	1,5	
99014132	3/4"	37	100	224	76	22 / 67	1,5	

## Liquid drainers, cast iron

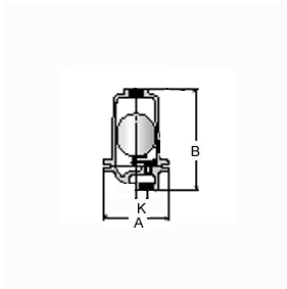
<b>Armstrong liquid drainer</b>	<b>Type : 1-LD</b>
<b>Vertical cast iron liquid drainer, free floating type</b>	
<b>Suitable for:</b> Liquid discharge from air and gas systems	
<ul style="list-style-type: none"> <li>* Light weight and compact</li> <li>* Sturdy construction</li> <li>* Armstrong free floating valve/seat system ensures 100% tightness</li> <li>* Floats for different specific gravity</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>1-LD</b>
<b>Material</b>	: <b>Cast iron GG20</b>
Internal parts	: Stainless steel AISI 304
Valve and seat	: Hardened chrom steel 440F.
	: Option: AISI 316
Design pressure	: 21 bar
	93°C or 17 bar
	232°C
Working pressure	: See table, max. pressure
	38°C and S.G. $\geq 1.00$
Connection	: BSPT or NPT-femal threaded
	: Flanges acc. to specification
Temperature	: Max. 232°C
When ordering	: Specify media, specific gravity, pressure, temperature and needed capacity.
Option	: Types with side connection



### BSPT female threaded

Article no.	Connection		Max.ΔP bar	Dimensions mm			Weight (kg)
	In (Top)	Out (Bottom)		A	B	K	
99017115	1/2"	1/4"	8,3	95	140	21	2
99017116	1/2"	1/4"	9,9	95	140	21	2
99017117	1/2"	1/4"	12,5	95	140	21	2
99017118	1/2"	1/4"	20,7	95	140	21	2

## Liquid drainers, cast iron



### Armstrong liquid drainer Type : 2-LD

#### Vertical cast iron liquid drainer, free floating type

**Suitable for:** Liquid discharge from air and gas systems

- \* Light weight and compact
- \* Sturdy construction
- \* Armstrong free floating valve/seat system ensures 100% tightness
- \* Floats for different specific gravity

#### Specifications

<b>Type</b>	: 2-LD
<b>Material</b>	: Cast iron GG20
Internal parts	: Stainless steel AISI 304
Valve and seat	: Hardened chrom steel 440F.
	: Option: AISI 316
Design pressure	: 17 bar
	: 232°C
Working pressure	: See table, max. pressure
	: 38°C and S.G. ≥1.00
Connection	: BSPT or NPT-femal threaded
	: Flanges acc. to specification
Temperature	: Max. 232°C
When ordering	: Specify media, specific gravity, pressure, temperature and needed capacity.
Option	: Types with side connection

## BSPT female threaded

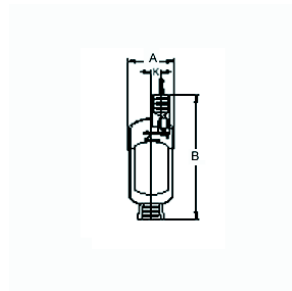
Article no.	Connection		Max.ΔP bar	Dimensions mm			Weight (kg)
	In (Top)	Out (Bottom)		A	B	K	
99010001	1/2"	1/2"	1,5	133	203	66,5	8,7
99010002	1/2"	1/2"	2,5	133	203	66,5	8,7
99010003	1/2"	1/2"	5,5	133	203	66,5	8,7
99010004	1/2"	1/2"	9,4	133	203	66,5	8,7
99010005	1/2"	1/2"	16,1	133	203	66,5	8,7
99010006	3/4"	1/2"	1,5	133	203	66,5	8,7
99010007	3/4"	1/2"	2,5	133	203	66,5	8,7
99010008	3/4"	1/2"	5,5	133	203	66,5	8,7
99010009	3/4"	1/2"	9,4	133	203	66,5	8,7
99010010	3/4"	1/2"	16,1	133	203	66,5	8,7



# Air Vents

## Air Vents, Stainless Steel

<b>Armstrong Air Vents</b>		<b>Type : 11-AV</b>
<b>Vertical stainless steel Air vent, free floating type</b>		
<b>Suitable for:</b> Positive venting of air/gases from pressurized fluid systems.		
<ul style="list-style-type: none"> <li>* Light and lightweight</li> <li>* Very solid 100% stainless steel</li> <li>* Long lifetime due to Armstrongs free floating lever system</li> <li>* Floats to different fluids (S.G.)</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: <b>11-AV</b>	
<b>Material</b>	: <b>Stainless steel 304L</b>	
<b>Internals</b>	: Stainless steel AISI 304	
<b>Valve &amp; seat</b>	: Hardened Chromesteel 440F. Option: AISI 316	
<b>Flanges</b>	: Steel. Option: Stainless steel	
<b>Max allowable pres.k:</b>	34 bar	
	38°C / 30 bar	
	260°C	
<b>Max. operating pres. :</b>	See tabel below, max. working pressure at 38°C and Specific Gravity $\geq$ 0,75.	
<b>Connection</b>	: Screwed BSPT or NPT	
	: Socket weld (S.W.)	
	: Flanged DIN PN40 or ANSI	
<b>Temperature</b>	: Max. 260°C	
<b>By order</b>	: Please inform about fluid (S.G.), pressure, temperature and needed capacity.	



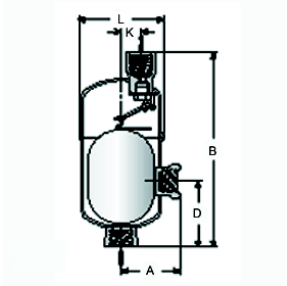
### Screwed BSPT

Item no.	Connection		Max.ΔP bar	Dimensions mm			Weight (kg)
	Inlet (Bottom)	Outlet (Top)		A	B	K	
99100015	1/2"	1/2"	30	70	184	14	0,8
99103020	3/4"	1/2"	12	70	184	14	0,8
99103120	3/4"	1/2"	18	70	184	14	0,8
99102020	3/4"	1/2"	28	70	184	14	0,8

### Screwed BSPT og AISI 316 valve and seat

Item no.	Connection		Max.ΔP bar	Dimensions mm			Weight (kg)
	Inlet (Bottom)	Outlet (Top)		A	B	K	
99104020	3/4"	1/2"	12	70	184	14	0,8
99108029	3/4"	1/2"	18	70	184	14	0,8
99108018	3/4"	1/2"	28	70	184	14	0,8

## Air Vents, Stainless Steel



### Armstrong Air Vents

Type : 22-AV

#### Vertical stainless steel Air vent, free floating type

**Suitable for:** Positive venting of air/gases from pressurized fluid systems.

- \* Light and lightweight
- \* Very solid 100% stainless steel
- \* Long lifetime due to Armstrongs free floating lever system
- \* Floats to different fluids (S.G.)

#### Specifications

**Type** : 22-AV  
**Material** : Stainless steel 304L  
**Internals** : Stainless steel AISI 304  
**Valve & seat** : Hardened Chromesteel 440F. Option: AISI 316  
**Flanges** : Steel. Option: Stainless steel

Max allowable pres. : 41 bar  
 38°C / 33 bar  
 260°C  
 Max. operating pres. : See tabel below, max. working pressure at 38°C and Specific Gravity ≥ 1,00

**Connection** : Screwed BSPT or NPT  
 : Socket weld (S.W.)  
 : Flanged DIN PN40 or ANSI

**Temperature** : Max. 260°C

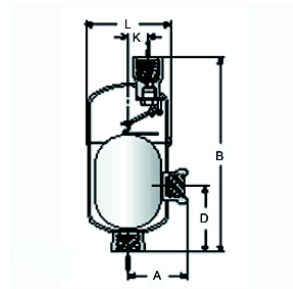
**By order** : Please inform about fluid (S.G.), pressure, temperature and needed capacity.

### Screwed BSPT

Item no.	Connection	Max. ΔP bar	Dimensions mm				Weight (kg)
			L	B	D	K / A	
99102021	3/4"	2,4	99	224	86	22 / 67	2,3
99102022	3/4"	3,9	99	224	86	22 / 67	2,3
99102023	3/4"	8,7	99	224	86	22 / 67	2,3
99102024	3/4"	14,9	99	224	86	22 / 67	2,3
99102025	3/4"	25,6	99	224	86	22 / 67	2,3
99102026	3/4"	32,7	99	224	86	22 / 67	2,3
99102027	3/4"	40,7	99	224	86	22 / 67	2,3
99102028	3/4"	41,4	99	224	86	22 / 67	2,3
	3/4"	2,4	99	224	86	22 / 67	2,3

## Air Vents, Stainless Steel

Armstrong Air Vents		Type : 13-AV
<b>Vertical stainless steel Air vent, free floating type</b>		
<b>Suitable for:</b> Positive venting of air/gases from pressurized fluid systems.		
<ul style="list-style-type: none"> <li>* Light and lightweight</li> <li>* Very solid 100% stainless steel</li> <li>* Long lifetime due to Armstrongs free floating lever system</li> <li>* Floats to different fluids (S.G.)</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	: 13-AV	
<b>Material</b>	: Stainless steel 304L	
<b>Internals</b>	: Stainless steel AISI 304	
<b>Valve &amp; seat</b>	: Hardened Chromesteel 440F. Option: AISI 316	
<b>Flanges</b>	: Steel. Option: Stainless steel	
<b>Max allowable pres.</b>	: 39 bar	
	: 38°C / 34 bar	
	: 260°C	
<b>Max. operating pres.</b>	: See tabel below, max. working pressure at 38°C and Specific Gravity ≥ 1,00	
<b>Connection</b>	: Screwed BSPT or NPT	
	: Socket weld (S.W.)	
	: Flanged DIN PN40 or ANSI	
<b>Temperature</b>	: Max. 260°C	
<b>By order</b>	: Please inform about fluid (S.G.), pressure, temperature and needed capacity.	

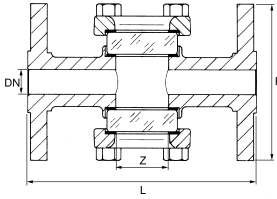


### Screwed BSPT

Item no.	Connection	Max.ΔP bar	Dimensions mm				Weight(kg)
			L	B	D	K / A	
99101025	1"	1,5	114	289	156	30 / 83	3,4
99101026	1"	3,1	114	289	156	30 / 83	3,4
99101027	1"	5,0	114	289	156	30 / 83	3,4
99101028	1"	6,6	114	289	156	30 / 83	3,4
99101029	1"	9,9	114	289	156	30 / 83	3,4
99101030	1"	14	114	289	156	30 / 83	3,4
99101031	1"	21	114	289	156	30 / 83	3,4
99101032	1"	33	114	289	156	30 / 83	3,4
99101033	1"	39	114	289	156	30 / 83	3,4
	1"	39	114	289	156	30 / 83	3,4

# Sight Glasses

## Sight glasses, DIN flanged



### Klinger sight glasses, cast iron

Type : 880

Flange connection PN 16

Suitable for: Water, condensate, oil and chemicals.

\* Inlet spout

#### Specifications

Type	: 880
Material	: GG25
Pressure rating	: PN 16
Glass cover	: PN 10 for DN150-250 with hardened glass
Glass	: GG25
	: Borosilicate glass acc. to DIN 7080
	: Option: Hardened glass DIN 8902. Option: Mica shield.
Gasket	: Graphite. Option: KlingerSil, PTFE or rubber.
Bolts	: Class 4,6 - galvanized
Face to face	: DIN 3202-F1
Connection	: Flanged DIN PN 16 (2533)
	: Option: DIN PN 10 (2532) or ANSI 150lbs
Temperature	: Max.280°C with Borosilicate glass
	: Max.150°C with hardened glass

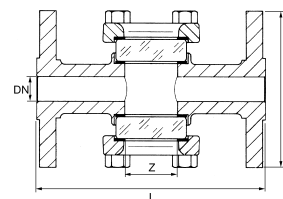
## PN 16 with Borosilicate glass DIN 7080

Article no.	DIMENSIONES (mm)			CONNECTION (mm)		OTHER	
	DN	L	Z	Flange diameter	PCD	Weight (kg)	Glass dimension(mm)
35101015	15	130	32	95	65 x 4 x 14		Ø45 x 10
35101020	20	150	32	105	75 x 4 x 14		Ø45 x 10
35101025	25	160	48	115	85 x 4 x 14		Ø63 x 10
35101032	32	180	65	140	100 x 4 x 18		Ø80 x 12
35101040	40	200	65	150	110 x 4 x 18		Ø80 x 12
35101050	50	230	80	165	125 x 4 x 18		Ø100 x 15
35101065	65	290	80	185	145 x 4 x 18		Ø100 x 15
35101080	80	310	100	200	160 x 8 x 18		Ø125 x 20
35101100	100	350	125	220	180 x 8 x 18		Ø150 x 25
35101125	125	400	150	250	210 x 8 x 18		Ø175 x 25
35101150	150	480	175	285	240 x 8 x 22		Ø200 x 30
35101200	200	600	175	340	295 x 12 x 22		Ø200 x 30
35101250	250	730	175	405	355 x 12 x 26		Ø200 x 30

- Also available:
- Steel execution GS-C25
  - Stainless steel execution 1.4408
  - With flow indicator:
  - Type 880-K with flap
  - Type 880-RK with paddle of plastic
  - Type 880-RP with paddle of PTFE
  - With wiper: Type 880-W
  - With illumination

## Sight glasses flanged

<b>Klinger sight glass, cast iron</b>	<b>Type : 58.5517</b>
<b>Flange connection PN 10</b>	
Suitable for: Water, condensate and oil.	
*	
<b>Specifications</b>	
Type	: 58.5517
Material	: Cast iron GG25
Max. working pressure:	: 6 bar
Glass cover	: GG25
Glass	: Borosilicate glass acc. to DIN 7080
Bolts	: Steel
Connection	: Flanged DIN PN 10
Temperature	: Max.300°C



### PN 10 with Borosilicate glass DIN 7080

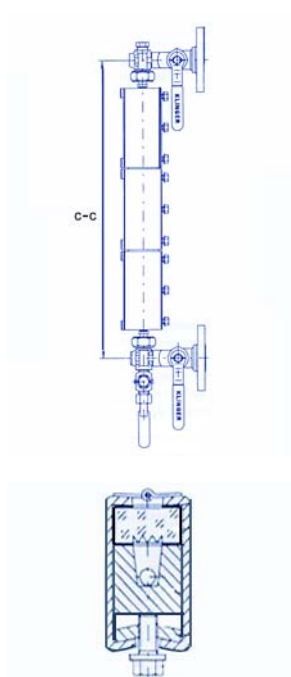
Article no.	DIMENSIONES (mm)			CONNECTION (mm)		OTHER	
	DN	L	H	Flange diameter	PCD	Weight (kg)	
	15	120	116	95	65 x 4 x 14	3,5	
	20	120	116	105	75 x 4 x 14	3,5	
	25	130	128	115	85 x 4 x 14	4	
	32	140	130	140	100 x 4 x 18	5	
	40	150	145	150	110 x 4 x 18	7	
	50	160	152	165	125 x 4 x 18	8,3	
	65	205	158	185	145 x 4 x 18	11	
	80	230	200	200	160 x 8 x 18	14,2	
	100	260	224	220	180 x 8 x 18	20,5	
	125	290	234	250	210 x 8 x 18	25,3	
	150	340	362	285	240 x 8 x 22	38,5	
	200	400	312	340	295 x 12 x 22	53	
	250	450	520	405	355 x 12 x 28	110	
	300	500	520	460	410 x 12 x 28	122	

**Level Gauges & valves**

**Reflex & Transparent**



## Level gauges



### Klinger level gauge, reflex Type : R 25-D

#### Flange connection

**Suitable for:** Water, liquids, liquid gas and steam.

- \* Good contrast between light/dark gives an easy level reading.
- \* Suitable for right or left hand application.
- \* Glass type B can be retrofitted.
- \* Gauge can be rotated 360°.

#### Specifications

<b>Type</b>	: R 25-D
<b>Material</b>	: Steel A 105 N
Pressure class gauge:	PN 25 / ANSI 150 lbs
Design temperature :	400°C; steam 215°C/20 bar
Reflex glass	: Borosilicate, type A
Glass gaskets	: Klingersil 4430
Bolts	: 8.8
Nuts	: ASTM 194-2H
Body cover	: Fe 430
Shut off cocks	: Type D, Steel A105 (FS/H)
Connections	: Flanges PN 40
	: Options: See separate data sheet for shut off cock type D

## Level gauge and accessories.

Article no.	GENERAL		DIMENSIONS (mm)
	Description	DN	Flange diameter
25331015	Upper cock D	15	95
25331020	Upper cock D	20	105
25331025	Upper cock D	25	115
25331115	Bottom cock D + drain cock ABL 12	15	95
25331120	Bottom cock D + drain cock ABL 12	20	105
25331125	Bottom cock D + drain cock ABL 12	25	115
25391012	Drain cock ABL 12 PN160	1/2"	Male threaded

## Level gauge (without end tubes)

Article no.	DIMENSIONS LEVEL GAUGE (mm)				CENTRE DISTANCE (mm)
	Size (no. of glass)	Sight length	Gauge length	Glass length	Minimum (c-c)
35307002	1 x 2	118	153	140	255
35307003	1 x 3	143	178	165	280
35307004	1 x 4	168	203	190	305
35307005	1 x 5	198	233	220	335
35307006	1 x 6	228	263	250	365
35307007	1 x 7	258	293	280	395
35307008	1 x 8	298	333	320	435
35307009	1 x 9	318	353	340	455
35307024	2 x 4	373	408	190	510
35307025	2 x 5	433	468	220	570
35307026	2 x 6	493	528	250	630
35307027	2 x 7	553	588	280	690
35307028	2 x 8	633	668	320	770

## Level gauges

Article no.	DIMENSIONS LEVEL GAUGE (mm)				CENTRE DISTANCE (mm)
	Size (no. of glass)	Sight length	Gauge length	Glass length	Minimum (c-c)
35307029	2 x 9	673	708	340	810
35307036	3 x 6	758	793	250	895
35307037	3 x 7	848	883	280	985
35307038	3 x 8	968	1003	320	1105
35307039	3 x 9	1028	1063	340	1165
35307047	4 x 7	1143	1178	280	1280
35307048	4 x 8	1303	1338	320	1440
35307049	4 x 9	1383	1418	340	1510
35307057	5 x 7	1438	1473	280	1575
35307058	5 x 8	1638	1673	320	1775
35307059	5 x 9	1738	1773	340	1875
35307068	6 x 8	1973	2008	320	2110
35307069	6 x 9	2093	2128	340	2230
35307078	7 x 8	2308	2343	320	2445
35307079	7 x 9	2448	2483	340	2585

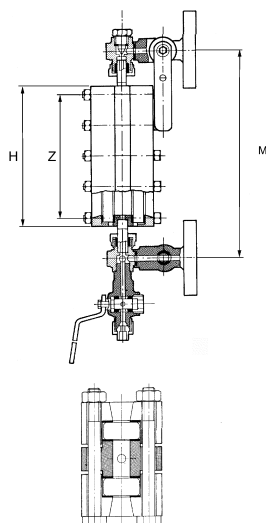
Also available:

- Other connections,
- Gauge in combination with other types of shut off cocks,
- Stainless steel execution.

When ordering, define:

- Media, pressure and temperature.
- Flange connection and centre to centre distance,
- Special cock functions,
- Necessary documentation.

## Level gauges



<b>Klinger level gauge, transparent</b>	<b>Type : T 50-D</b>
<b>Flange connection</b>	
<b>Suitable for:</b> Water, liquids and steam.	
<ul style="list-style-type: none"> <li>* Delivered with original Klinger borosilicate glass "extra hardened".</li> <li>* Applicable for high temperature service.</li> <li>* Gauge can be rotated 360°.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>T 50-D</b>
<b>Material</b>	: <b>Steel A 105 N</b>
<b>Gauge pressure rating:</b>	PN 40 / ANSI 300 lbs
<b>Design temperature :</b>	400°C; steam 202°C/15 bar
<b>Transparent glass :</b>	Hardened borosilicate glass, type B
<b>Glass protection :</b>	Mica (Option)
<b>Glass gaskets :</b>	Klingersil. Option: Graphite.
<b>Bolts :</b>	ASTM 193-B7
<b>Nuts :</b>	ASTM 194-2H
<b>Shut off cocks :</b>	Type D, Steel A105 (FS/H)
<b>Connections :</b>	Flanges PN 40
	: Options: See separate data sheet for shut off cocks type D.

## Level gauge and accessories.

Article no.	GENERAL		DIMENSIONS (mm)
	Description	DN	Flange diameter
25331015	Upper cock D	15	95
25331020	Upper cock D	20	105
25331025	Upper cock D	25	115
25331115	Bottom cock D + drain cock ABL 12	15	95
25331120	Bottom cock D + drain cock ABL 12	20	105
25331125	Bottom cock D + drain cock ABL 12	25	115
25391012	Drain cock type ABL 12 PN160	1/2"	Male threaded

## Level gauge

Article no.	DIMENSIONS LEVEL GAUGE (mm)				CENTRE DISTANCE (mm)
	Size (no. of glass)	Sight length (Z)	Gauge length (H)	Glass length	minimum (M)
35303012	1 x 2	118	153	140	255
35303013	1 x 3	143	178	165	280
35303014	1 x 4	168	203	190	305
35303015	1 x 5	198	233	220	335
35303016	1 x 6	228	263	250	365
35303017	1 x 7	258	293	280	395
35303018	1 x 8	298	333	320	435
35303019	1 x 9	318	353	340	455
35303024	2 x 4	373	408	190	510
35303025	2 x 5	433	468	220	570
35303026	2 x 6	493	528	250	630
35303027	2 x 7	553	588	280	690
35303028	2 x 8	633	668	320	770
35303029	2 x 9	673	708	340	810
35303036	3 x 6	758	793	250	895
35303037	3 x 7	848	883	280	985
35303038	3 x 8	968	1003	320	1105
35303039	3 x 9	1028	1063	340	1165

## Level gauges

Article no.	DIMENSIONS LEVEL GAUGE (mm)				CENTRE DISTANCE (mm)
	Size (no. of glass)	Sight length (Z)	Gauge length (H)	Glass length	minimum (M)
35303047	4 x 7	1143	1178	280	1280
35303048	4 x 8	1303	1338	320	1440
35303049	4 x 9	1383	1418	340	1520
35303057	5 x 7	1438	1473	280	1575
35303058	5 x 8	1638	1673	320	1775
35303059	5 x 9	1738	1773	340	1875
35303068	6 x 8	1973	2008	320	2110
35303069	6 x 9	2093	2128	340	2230
35303078	7 x 8	2308	2343	320	2445
35303079	7 x 9	2448	2483	340	2585

Also available:

- Gauge in combination with other types of shut of cocks.
- Illumination.
- Non frosting blocks.
- Stainless steel execution.

When ordering, define:

- Media, pressure and temperature.
- Flange connection and centre to centre distance.
- Special cock functions.
- Necessary documentation.

## Level gauges



<b>Klinger level gauge cocks</b>		<b>Type : D</b>
<b>Flange connection</b>		
Suitable for: Klinger reflex and transparent gauges.		
* Available with lever on left or right side (to be mentioned upon order)		
<b>Specifications</b>		
<b>Type</b>	: <b>D</b>	
<b>Material</b>	: <b>Steel A 105 (FS/H), Option: Stainless steel (M/H)</b>	
Pressure rating	: PN64 / ANSI 400	
Plug	: Stainless steel AISI 316	
Split ring (2-piece)	: Stainless steel AISI 316	
Packing sleeve	: Graphite with coated surface	
Connection	: Flanges DIN PN40 (Standard)	
Drain cock	: Steel A 105, PN160	
Design temperature	: 400°C	

## Gauge Cock Type D, PN40

Article no.	GENERAL Description	DIMENSIONS (mm)	
		DN	Flange diameter
25331015	Upper cock D	15	95
25331020	Upper cock D	20	105
25331025	Upper cock D	25	115
25331115	Lower cock D + drain cock ABL 12	15	95
25331120	Lower cock D + drain cock ABL 12	20	105
25331125	Lower cock D + drain cock ABL 12	25	115
25391012	Drain cock ABL 12 PN160	1/2"	Male threaded

Also available:

- other flange connections, threaded connections.
- safety balls

## Spare parts for cocks type D

Article no.	Description	Quantity
90251000	Complete spare part kit	
	Including:	
90251016	AB 12 special packing sleeve w/2 eyelets	1
90251030	AB 18 packing sleeve w/ 2 eyelets	2
90251065	KU 16 gland ring, graphite	2
65041201	Klinger-Sil gasket ø 25x12x1 mm	2
90113901	Copper ring ø 14x8x1,5 mm	2
90113903	Copper ring ø 27x21x1,5 mm	2
90113902	Copper ring drain cock 3/8" ø18x12x1,5 mm	1

## Level gauges

<b>Klinger level gauge cocks</b>	<b>Type : D</b>
<b>Threaded connection</b>	
Suitable for: Klinger reflex and transparent gauges.	
* Available with lever on left or right side (to be mentioned upon order).	
<b>Specifications</b>	
<b>Type</b>	: <b>D</b>
<b>Material</b>	: <b>Steel A 105 (FS/H), Option: Stainless steel (M/H)</b>
<b>Pressure rating</b>	: PN64 / ANSI 400
<b>Plug</b>	: Stainless steel AISI 316
<b>Split ring (2-piece)</b>	: Stainless steel AISI 316
<b>Packing sleeve</b>	: Graphite with coated surface
<b>Connection</b>	: Male threaded: 1/2", 3/4" or 1" acc. ANSI B2.1
<b>Drain cock</b>	: Steel A 105, PN160
<b>Design temperature</b>	: 400°C



### Gauge Cock Type D

Article no.	GENERAL	DIMENSIONS (mm)	
	Description	DN	Connection
25335015	Upper cock D	15	1/2" male thread
25335020	Upper cock D	20	3/4" male threaded
25335025	Upper cock D	25	1" male threaded
25335115	Lower cock D + drain cock ABL 12	15	1/2" male threaded
25335120	Lower cock D + drain cock ABL 12	20	3/4" male threaded
25335125	Lower cock D + drain cock ABL 12	25	1" male threaded
25391012	Drain cock ABL 12 PN160	1/2"	Male threaded

Also available:

- flange connections,
- safety ball

### Spare parts for cocks type D

Article no.	Description	Quantity
90251000	Complete spare part kit	
	Including:	
90251016	AB 12 special packing sleeve w/2 eyelets	1
90251030	AB 18 packing sleeve w/ 2 eyelets	2
90251065	KU 16 gland ring, graphite	2
65041201	Klinger-Sil gasket ø 25x12x1 mm	2
90113901	Kopper ring ø 14x8x1,5 mm	2
90113903	Kopper ring ø 27x21x1,5 mm	2
90113902	Kopper ring drain cock 3/8" ø18x12x1,5 mm	1

## Level gauges



Glass for reflex gauges		Type : A, B og H
<b>Extra Hardened</b>		
Suitable for: Saturated steam up to 35 bar and process applications.		
* High quality glass. * High mechanical strength and corrosion resistant.		
<b>Specifications</b>		
Type	: A, B og H	
Material	: Borosilicate glass, hardened	
Stress strength	: > 120 N/mm <sup>2</sup>	
Expansion coefficient:	: 20/300<4,5. 10-6K-1 tested acc. to DIN 52328	
Transition temp.	: tg = 550°C, tested acc. to DIN 52324	
Alcali resistance	: Alcali class 2, tested acc. to DIN 52322 (max. surface loss 125 mg/dm <sup>2</sup> after 3 hours)	
Water resistance	: Hydraulic class 1, tested acc. to DIN 12111	
Acid resistance	: Acid class 1, tested acc. to DIN 12116	
Other	: Ö-Norm M 7354/DIN 7081	
Temperature	: Type A: 0-10bar: 430°C, 150bar: 400°C, 220bar: 120°C	
	: Type B: 0-10bar: 430°C, 180bar: 400°C, 265bar: 120°C	
	: Type H: 0-10bar: 430°C, 200bar: 400°C, 300bar: 120°C	

### Klinger Reflex glass type A, incl.graphite gaskets type SLS (not R25)

Article no.	DIMENSIONS (mm)				Article no.	DIMENSIONS (mm)			
	Size	Length	Width	Thickness		Size	Length	Width	Thickness
	A - 0	95	30	17	55371005	A - 5	220	30	17
55371001	A - 1	115	30	17	55371006	A - 6	250	30	17
55371002	A - 2	140	30	17	55371007	A - 7	280	30	17
55371003	A - 3	165	30	17	55371008	A - 8	320	30	17
55371004	A - 4	190	30	17	55371009	A - 9	340	30	17

### Klinger Reflex glass type A, incl.sil-gaskets type 4430

Article no.	DIMENSIONS (mm)				Article no.	DIMENSIONS (mm)			
	Size	Length	Width	Thickness		Size	Length	Width	Thickness
	A - 0	95	30	17	55371015	A - 5	220	30	17
55371011	A - 1	115	30	17	55371016	A - 6	250	30	17
55371012	A - 2	140	30	17	55371017	A - 7	280	30	17
55371013	A - 3	165	30	17	55371018	A - 8	320	30	17
55371014	A - 4	190	30	17	55371019	A - 9	340	30	17

### Klinger Reflex glass type B, incl.graphite gaskets type SLS

Article no.	DIMENSIONS (mm)				Article no.	DIMENSIONS (mm)			
	Size	Length	Width	Thickness		Size	Length	Width	Thickness
	B - 0	95	34	17	55372006	B - 6	250	34	17
55372001	B - 1	115	34	17	55372007	B - 7	280	34	17
55372002	B - 2	140	34	17	55372008	B - 8	320	34	17
55372003	B - 3	165	34	17	55372009	B - 9	340	34	17
55372004	B - 4	190	34	17	55372010	B - 10	370	34	17
55372005	B - 5	220	34	17					

## Level gauges

### Klinger Reflex glass type B, incl.sil-gaskets type 4430

Article no.	DIMENSIONS (mm)				Article no.	DIMENSIONS (mm)			
	Size	Length	Width	Thickness		Size	Length	Width	Thickness
	B - 0	95	34	17		B - 6	250	34	17
	B - 1	115	34	17		B - 7	280	34	17
	B - 2	140	34	17		B - 8	320	34	17
	B - 3	165	34	17		B - 9	340	34	17
	B - 4	190	34	17		B - 10	370	34	17
	B - 5	220	34	17					

### Klinger Reflex glass type H, incl.graphite gaskets type SLS

Article no.	DIMENSIONS (mm)				Article no.	DIMENSIONS (mm)			
	Size	Length	Width	Thickness		Size	Length	Width	Thickness
	H - 1	115	34	22		H - 5	220	34	22
	H - 2	140	34	22	55378001	H - 6	250	34	22
	H - 3	165	34	22	55378002	H - 7	280	34	22
	H - 4	190	34	22	55378010	H - 8	320	34	22
						H - 9	340	34	22

- For saturated steam above 35 bar transparent gauges with Mica shields are recommended.

Also available: - For Klinger R25 reflex gauges Klinger Sil-4430 gaskets must be used for type A glas.



## Level gauges



### Glass for Transparent gauges Type : A, B, H and TA28

**Extra Hardened**

**Suitable for:** Saturated steam up to 35 bar and process applications.

- \* High quality glass.
- \* High mechanical strength and corrosion resistant.
- \* Extra hardened.

#### Specifications

<b>Type</b>	: <b>A, B, H and TA28</b>
<b>Material</b>	: <b>Borosilicate glass, hardened</b>
<b>Stress strength</b>	: > 120 N/mm <sup>2</sup>
<b>Expansion coefficient:</b>	20/300<4,5. 10-6K-1 tested acc. to DIN 52328
<b>Transition temp.</b>	: tg = 550°C, tested acc. to DIN 52324
<b>Alcali resistance</b>	: Alcali class 2, tested acc. to DIN 52322 (max. surface loss 125 mg/dm <sup>2</sup> after 3 hours)
<b>Water resistance</b>	: Hydraulic class 1, tested acc. to DIN 12111
<b>Acid resistance</b>	: Acid class 1, tested acc. to DIN 12116
<b>Other</b>	: Ö-Norm M 7354/DIN 7081
<b>Temperature</b>	: Type A: 0-10bar: 430°C, 160bar: 400°C, 240bar: 120°C : Type B: 0-10bar: 430°C, 180bar: 400°C, 265bar: 120°C : Type H: 0-50bar: 350°C, 100bar: 120°C : Type TA28: 0-10bar: 430°C, 200bar: 400°C, 300bar: 120°C

### Klinger Transparent glass type A, incl.graphite gaskets type SLS

Article no.	DIMENSIONS (mm)				Article no.	DIMENSIONS (mm)			
	Size	Length	Width	Thickness		Size	Length	Width	Thickness
55371101	A - 1	115	30	17	55371106	A - 6	250	30	17
55371102	A - 2	140	30	17	55371107	A - 7	280	30	17
55371103	A - 3	165	30	17	55371108	A - 8	320	30	17
55371104	A - 4	190	30	17	55371109	A - 9	340	30	17
55371105	A - 5	220	30	17					

### Klinger Transparent glass type B, incl.graphite gaskets type SLS

Article no.	DIMENSIONS (mm)				Article no.	DIMENSIONS (mm)			
	Size	Length	Width	Thickness		Size	Length	Width	Thickness
55373001	B - 1	115	34	17	55373006	B - 6	250	34	17
55373002	B - 2	140	34	17	55373007	B - 7	280	34	17
55373003	B - 3	165	34	17	55373008	B - 8	320	34	17
55373004	B - 4	190	34	17	55373009	B - 9	340	34	17
55373005	B - 5	220	34	17	55373010	B - 10	370	34	17

### Klinger Transparent glass type H, incl.graphite gaskets type SLS

Article no.	DIMENSIONS (mm)				Article no.	DIMENSIONS (mm)			
	Size	Length	Width	Thickness		Size	Length	Width	Thickness
55370102	H - 2	140	34	22	55370107	H - 7	280	34	22
55370103	H - 3	165	34	22	55370108	H - 8	320	34	22
55370104	H - 4	190	34	22	55370109	H - 9	340	34	22
55370105	H - 5	220	34	22					
55370106	H - 6	250	34	22					

## Level gauges

Klinger Transparent glass type TA28, incl.graphite gaskets type SLS

Article no.	DIMENSIONS (mm)				Article no.	DIMENSIONS (mm)			
	Size	Length	Width	Thickness		Size	Length	Width	Thickness
55374001	TA - 1	113	27,6	16,8	55374006	TA - 6	248	27,6	16,8
55374003	TA - 3	163	27,6	16,8	55374007	TA - 7	278	27,6	16,8
55374004	TA - 4	188	27,6	16,8	55374008	TA - 8	318	27,6	16,8
55374005	TA - 5	218	27,6	16,8	55374009	TA - 9	338	27,6	16,8

- For saturated steam above 35 bar it is recommended to use Mica shields with the glass.
- For saturated steam above 120 bar, TA - glass size 1 must be used.
- Mica should always be used with TA - glass.

## Level gauges



<b>Gaskets for level gauges</b>	<b>Type : A, B and H</b>
<b>Graphite with stainless steel insert and anti-stick coating.</b>	
Suitable for: Steam, hot water and thermic oil.	
* Original Klinger gaskets. * Anti-stick coating gives minimal sticking.	
<b>Specifications</b>	
<b>Type</b>	: <b>A, B and H</b>
<b>Material</b>	: <b>Klinger SLS</b>
<b>Colour</b>	: <b>Black/grey</b>
<b>Compressibility</b>	: 40-50% (ASTMF36A)
<b>Recovery</b>	: 10-15% (ASTMF36A)
<b>Pressure stability</b>	: 48 N/mm (DIN 52913)
<b>Gas leakage</b>	: <0,8 ml/min.(DIN 3535/4)
<b>Chemical resistance</b>	: see resistance table

### Klinger gauge gasket type A, thickness 1,5 mm

Article no.	DIMENSIONS (mm)			Article no.	DIMENSIONS (mm)		
	Size	Length	Width		Size	Length	Width
90110500	A - 0	95	30	90110505	A - 5	220	30
90110501	A - 1	115	30	90110506	A - 6	250	30
90110502	A - 2	140	30	90110507	A - 7	280	30
90110503	A - 3	165	30	90110508	A - 8	320	30
90110504	A - 4	190	30	90110509	A - 9	340	30

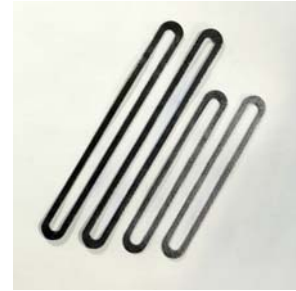
### Klinger gauge gasket type B and H, thickness 1,5 mm

Article no.	DIMENSIONS (mm)			Article no.	DIMENSIONS (mm)		
	Size	Length	Width		Size	Length	Width
90110700	B - 0	95	34	90110706	B - 6	250	34
90110701	B - 1	115	34	90110707	B - 7	280	34
90110702	B - 2	140	34	90110708	B - 8	320	34
90110703	B - 3	165	34	90110709	B - 9	340	34
90110704	B - 4	190	34	90110710	B - 10	370	34
90110705	B - 5	220	34				

Also available: - other dimensions and materials.

## Level gauges

Gaskets for level gauges		Type : A and B
<b>Asbestos free fibre gasket with anti-stick coating.</b>		
Suitable for: Steam, hot water and thermic oil.		
* Original Klinger gaskets. * Anti-stick coating.		
<b>Specifications</b>		
Type	: A and B	
Material	: Klinger 4430	
Colour	: green/white	
Compressibility	: 9% (ASTMF36A)	
Recovery	: 50% (ASTMF36A)	
Pressure stability	: 35 N/mm (DIN 52913)	
Gas leakage	: <1,0 ml/min.(DIN 3535/6)	
Chemical resistance	: see resistance table	



### Klinger gauge gasket type A, thickness 1,5 mm

Article no.	DIMENSIONS (mm)			Article no.	DIMENSIONS (mm)		
	Size	Length	Width		Size	Length	Width
90110600	A - 0	95	30	90110605	A - 5	220	30
90110601	A - 1	115	30	90110606	A - 6	250	30
90110602	A - 2	140	30	90110607	A - 7	280	30
90110603	A - 3	165	30	90110608	A - 8	320	30
90110604	A - 4	190	30	90110609	A - 9	340	30

### Klinger gauge gasket type B, thickness 1,5 mm

Article no.	DIMENSIONS (mm)			Article no.	DIMENSIONS (mm)		
	Size	Length	Width		Size	Length	Width
90110700	B - 0	95	34	90110706	B - 6	250	34
90110701	B - 1	115	34	90110707	B - 7	280	34
90110702	B - 2	140	34	90110708	B - 8	320	34
90110703	B - 3	165	34	90110709	B - 9	340	34
90110704	B - 4	190	34	90110710	B - 10	370	34
90110705	B - 5	220	34				

Also available: - other dimensions and materials.

## Level gauges



<b>MICA protection for transparent glass</b>	<b>Type : B</b>
<b>Mineral material</b>	
<b>Suitable for:</b> Steam application.	
<ul style="list-style-type: none"> <li>* Prolongs the gauge glass lifetime on steam applications.</li> <li>* Only for transparent glass, not for reflex glass.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>B</b>
<b>Material</b>	: <b>MICA</b>
<b>Quality</b>	: "Ruby stained"
<b>Thickness B</b>	: 0,15-0,25mm. Option 0,6mm.

## MICA for type B

Article no.	DIMENSIONS (mm)			Article no.	DIMENSIONS (mm)		
	Size	Length	Width		Size	Length	Width
90110000	B - 0	95	34	90110306	B - 6	250	34
90110001	B - 1	115	34	90110007	B - 7	280	34
90110002	B - 2	140	34	90110008	B - 8	320	34
90110003	B - 3	165	34	90110009	B - 9	340	34
90110004	B - 4	190	34	90110010	B - 10	370	34
90110005	B - 5	220	34				

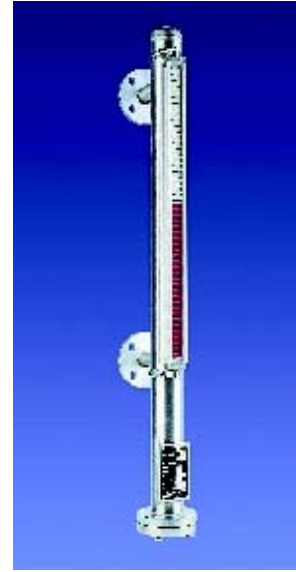
Also available: - other dimensions.

# Level Gauges

## Magnetic

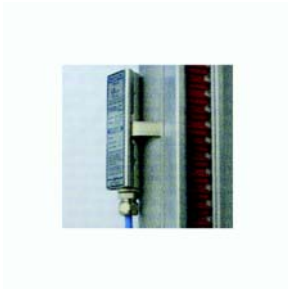
## Magnetic Level Gauges

Magnetic Level Gauges		Type : MG33
Stainless steel up to PN16		
Suitable for: Level indication on liquide tanks, steam boilers etc.		
<ul style="list-style-type: none"> <li>* Display easy to read.</li> <li>* No maintenance.</li> <li>* Display can be rotated very easy to correct position.</li> <li>* Also ideal for interface between oil/water.</li> <li>* Free floating float.</li> </ul>		
<b>Specifications</b>		
Type	:	<b>MG33</b>
Material	:	<b>AISI 304. Option AISI 316</b>
Pressure rating	:	PN16
C-C length	:	Up to 2000mm
Connecting flange	:	Steel DN20 PN16 (DIN 3533). Option: Stainless steel.
Blind flange	:	Steel DN50 PN16 (DIN 3533). Option: Stainless steel
Float	:	Stainless steel
	:	Floats to Specific Gravity from 0,4 to 2,2
Display	:	Plastic and plexiglass
Display flaps	:	Magnetic plastic coated red/white disc's
Bolts ans plug	:	AISI 304
Approvals	:	Bureau Veritas, Lloyds
Working pressure	:	Max. 16 bar
Temperature	:	Max. 160°C. Option: 200°C with other display.



When ordering define:	Order information	Other
Material		
Pressure design		
Pressure operating		
Temp.design		
Temp. operating		
Centre-centre(mm)		
Connection		
Fluid and S.G		
Certificates		
Options		
Mono stable switch		
Bi-stable switch		
Control panel		

## Magnetic Level Gauges



**Klunger level switches** **Type : DR2 / DR3 / DR8**

**For Klunger MLG**

**Suitable for:** Klunger magnetic level gauges, level control.

\* Suitable for temperatures up to +150°C.

### Specifications

**Type : DR2 / DR3 / DR8**

Housing : Stainless steel  
 Contact : Reed, 1 SPDT (Bistable)  
 Switch rating : 230VAC, 60VA, 1 Amp  
 : 230VDC, 30W, 0,5 Amp

Housing protection : IP65 (IP68 in EEx d version)

Cable connection : 3m silicon cable.

Temperature : 150°C

Article no.	Type	Execution
40307000	DR2	II 1G EEx ia IIC T3-T6
40307005	DR 3	Standard - non Ex
40307010	DR8	II 2G EEx d IIC T3-T6 LCIE 01 ATEX 6047X

Also available: - Option: Longer cable, connection box



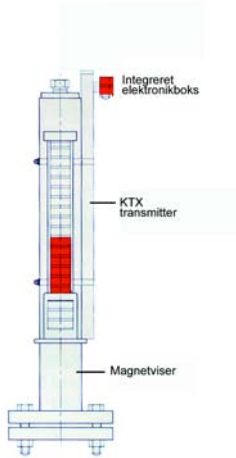
## Magnetic Level Gauges

<b>Klinger level switches</b>		<b>Type : DR4 / DR6</b>
<b>For Klinger MLG</b>		
<b>Suitable for:</b> Klinger magnetic level gauges, level control.		
* Suitable for temperatures up to +380°C for DR4 and up to +150°C for DR6.		
<b>Specifications</b>		
<b>Type</b>	: <b>DR4 / DR6</b>	
DR4(STMU)	: DR4(STMU)	
Housing	: Aluminium, coated red	
Contact	: Reed, 1 SPDT (Bistable)	
Switch rating	: 230VAC, 60VA, 1 Amp	
	: 230VDC, 30W, 0,5 Amp	
Housing protection	: IP65	
Cable connection	: M20 for cable	
Temperature	: 380°C	
Option	: Inductive proximity version	
DR6(DMA)	: DR6(DMA)	
Housing	: Aluminium, coated grey	
Contact	: Reed, 1 SPDT (Bistable)	
Switch rating	: 230VAC, 60VA, 1 Amp	
	: 230VDC, 30W, 0,5 Amp	
Housing protection	: IP66	
Cable connection	: M20 for cable (2 x plugged 3/4" NPT)	
Temperature	: 150°C	
Option	: Version with micro switch (6 Amp.)	



Article no.	Type	Execution
40307015	DR4	High temperature - non Ex
40307020	DR6	II 2G EEx d IIC T4-T6 LCIE 02 ATEX 6056

## Magnetic Level Gauges



<b>Klinger level transmitter</b>	<b>Type : KTX</b>
<b>4-20mA output signal</b>	
<b>Suitable for:</b> Remote display of Klinger magnetic level gauges.	
* No media contact * Can be retrofitted	
<b>Specifications</b>	
<b>Type</b>	: <b>KTX</b>
System	: 2-wire
Supply voltage	: 10-30 V DC
Output signal	: 4-20 mA, 2-wire
Float warning	: mA signal
Resolution	: Standard 5mm, 10mm or 20 mm
Connection	: Epoxy coated aluminium head mounted junction box with M20 cable entry
Protection rating	: IP 65
Længde	: Efter længde på magnetviser
Temperature	: Up to +150°C.

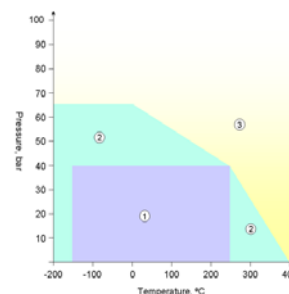
Article no.	Type	Execution
	KTX.IS	II 1/2G EEx ia IIC T4-T6 KEMA 01 ATEX 1052X
	KTX.EXD	II 2G EEx d IIC T4-T6 LCIE 03 ATEX 6155
	KTX.(Option)	Low Cost - non approved

## **Gaskets**

**Fibre – PTFE – Rubber - Cork**

## Fibre gaskets

Fibre gaskets		Type : KLINGERSIL C-4430
<b>Glass fibre bonded NBR</b>		
Suitable for: Oils, steam, hydrocarbons, oxygen and potable water applications.		
<p>* One of the best and strongest all-round materials with high surface pressure resiliency. It has a high temperature resistance. The material has a premium stress retention.</p> <p>* Available as sheets or cut gaskets.</p>		
<b>Specifications</b>		
Type	: KLINGERSIL C-4430	
Material	: Glass fibre with NBR	
Color	: Light yellow/green or light yellow on both sides	
Compressibility ASTM F36A	: 9%	
Recovery ASTM F36A	: Min. 50%	
Pressure stability DIN 52913 (2mm)	: 35 N/mm <sup>2</sup>	
Gas sealability DIN 3535/6	: <1,0 ml/min.	
Density	: 1,55 g/cm <sup>3</sup>	
Approvals	: DIN DVGW DVGW W270 TA-Luft BAM UVV 28 BS 7531 Grade AX Fire safe BS 5146 WRC+KTW Germanischer Lloyd	
Pressure- and temperature diagram:		
Area 1:	Material is normally suitable subject to chemical compatibility.	
Area 2:	Materials may be suitable but a technical evaluation is recommended.	
Area 3:	Contact Klinger for technical evaluation.	



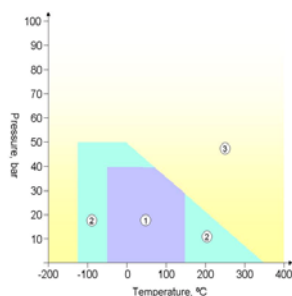
### KLINGERSIL C-4430: sheets

Article no.	Thickness (mm)	Dimension (mm)	Article no.	Thickness (mm)	Dimension (mm)
65041002	0,25	2000 x 1500	65041010	1,00	2000 x 1500
65048021	0,40	2000 x 1500	65041015	1,50	2000 x 1500
65041005	0,50	2000 x 1500	65041020	2,00	2000 x 1500
65041008	0,80	2000 x 1500	65041030	3,00	2000 x 1500

### KLINGERSIL C-4430: DIN flange gaskets 1,5 mm

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
	DN 10	PN 10-40			45 x 18	DN 10	
65052015	DN 15	PN 10-40	50 x 22	65054150	DN 150	PN 25-40	225 x 169
65052020	DN 20	PN 10-40	60 x 28	65052200	DN 200	PN 10-16	273 x 220
65052025	DN 25	PN 10-40	70 x 35	65053200	DN 200	PN 25	285 x 220
65052032	DN 32	PN 10-40	82 x 43	65054200	DN 200	PN 40	292 x 220
65052040	DN 40	PN 10-40	92 x 49	65058207	DN 250	PN 10	328 x 274
65052050	DN 50	PN 10-40	107 x 61	65052250	DN 250	PN 16	330 x 274
65052065	DN 65	PN 10-40	127 x 77	65058864	DN 250	PN 25	342 x 274
65052080	DN 80	PN 10-40	142 x 90	65054250	DN 250	PN 40	353 x 274
65052100	DN 100	PN 10-16	162 x 115	65058208	DN 300	PN 10	378 x 325
65054100	DN 100	PN 25-40	168 x 115	65052300	DN 300	PN 16	385 x 325
65052125	DN 125	PN 10-16	192 x 141	65058424	DN 300	PN 25	402 x 325
65054125	DN 125	PN 25-40	195 x 141	65054300	DN 300	PN 40	418 x 325
65052150	DN 150	PN 10-16	218 x 169				

## Fibre gaskets



### Fibre gaskets Type : KLINGERSIL C-4324

**Aramid and glass fibre bonded with NBR**

**Suitable for:** Liquids and low pressure steam, good resistance to water and oil, excellent resistance to gas leakage.

- \* A strong and economic quality material for a wide industrial application.
- \* Available as sheets or cut gaskets.

#### Specifications

**Type** : KLINGERSIL C-4324

**Material** : Aramid and glass fibre with NBR

**Color** : Green/Black

Compressibility ASTM F36A : 10%  
 Recovery ASTM F36A : Min. 55%  
 Pressure stability DIN 52913 (2mm) : 20 N/mm<sup>2</sup>  
 Gas sealability DIN 3535/6 : ≤0,1 mg/s x m

**Density** : 1,85 g/cm<sup>3</sup>

**Approvals** : DIN DVGW  
 WRC+KTW  
 Germanischer Lloyd

Pressure- and temperature diagram:

Area 1: Material is normally suitable subject to chemical compatibility.

Area 2: Material may be suitable but a technical evaluation is recommended.

Area 3: Contact Klinger for technical evaluation.

### KLINGERSIL C-4324: sheets

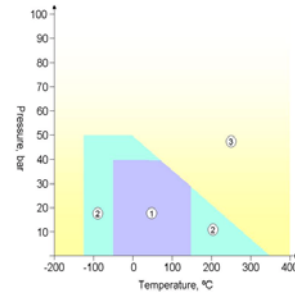
Article no.	Thickness (mm)	Dimension (mm)	Article no.	Thickness (mm)	Dimension (mm)
65001010	1,00	2000 x 1500	65001020	2,00	2000 x 1500
65001015	1,50	2000 x 1500	65001030	3,00	2000 x 1500

### KLINGERSIL C-4324: DIN flange gaskets 1,5 mm

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
<b>65018405</b>	<b>DN 10</b>	<b>PN 10-40</b>	<b>45 x 18</b>	<b>65018405</b>	<b>DN 10</b>	<b>PN 10-40</b>	<b>45 x 18</b>
65012015	DN 15	PN 10-40	50 x 22	65014150	DN 150	PN 25-40	225 x 169
65012020	DN 20	PN 10-40	60 x 28	65012200	DN 200	PN 10-16	273 x 220
65012025	DN 25	PN 10-40	70 x 35	65018205	DN 200	PN 25	285 x 220
65012032	DN 32	PN 10-40	82 x 43	65014200	DN 200	PN 40	292 x 220
65012040	DN 40	PN 10-40	92 x 49	65018254	DN 250	PN 10	328 x 274
65012050	DN 50	PN 10-40	107 x 61	65012250	DN 250	PN 16	330 x 274
65012065	DN 65	PN 10-40	127 x 77	65018391	DN 250	PN 25	342 x 274
65012080	DN 80	PN 10-40	142 x 90	65014250	DN 250	PN 40	353 x 274
65012100	DN 100	PN 10-16	162 x 115	65018209	DN 300	PN 10	378 x 325
65014100	DN 100	PN 25-40	168 x 115	65012300	DN 300	PN 16	385 x 325
65012125	DN 125	PN 10-16	192 x 141	65018189	DN 300	PN 25	402 x 325
65014125	DN 125	PN 25-40	195 x 141	65014300	DN 300	PN 40	418 x 325
65012150	DN 150	PN 10-16	218 x 169				

## Fibre gaskets

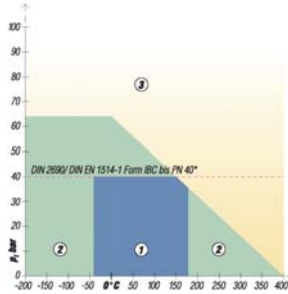
<b>Fibre gaskets</b>	<b>Type : KLINGERSIL Marine</b>
<b>Synthetic fibres bonded with NBR</b>	
<b>Suitable for:</b> Oil, water and gases at lower pressure and temperature.	
<p>* A strong and economic quality material for marine application.          * Available as sheets. Cut gaskets are supplied in KLINGERSIL C-4324.</p>	
<b>Specifications</b>	
<b>Type</b>	: <b>KLINGERSIL Marine</b>
<b>Material</b>	: <b>Synthetic fibres with NBR</b>
<b>Color</b>	: <b>Green/Black</b>
Compressibility ASTM F36A	: 15%
Recovery ASTM F36A	: Min. 50%
Pressure stability DIN 52913 (2mm)	: 20 N/mm <sup>2</sup>
Density	: 1,60 g/cm <sup>3</sup>
<p>Pressure- and temperature diagram:          Area 1: Material is normally suitable subject to chemical compatibility.          Area 2: Material may be suitable but a technical evaluation is recommended.          Area 3: Contact Klinger for technical evaluation.</p>	



### KLINGERSIL Marine: sheets

Article no.	Thickness (mm)	Dimension (mm)	Article no.	Thickness (mm)	Dimension (mm)
65005010	1,00	2000 x 1500	65005020	2,00	2000 x 1500
65005015	1,50	2000 x 1500	65005030	3,00	2000 x 1500

## Fibre gaskets



Fibre gaskets		Type : KLINGERSIL C-4408G2
Aramid fibre bonded with NBR - steel wire mesh		
Suitable for: Fuels, oils and hydrocarbons. Successful in internal combustion engine applications.		
* Graphite anti-stick finish on both sides. * Available as sheets or cut gaskets.		
<b>Specifications</b>		
Type	: KLINGERSIL C-4408G2	
Material	: Aramid bonded with NBR and steel wire mesh reinforcement.	
Color	: Gray/black both sides	
Compressibility ASTM F36A	:	8%
Recovery ASTM F36A	:	50%
Density	:	1,9 g/cm <sup>3</sup>
Pressure- and temperature diagram:		
Area 1:	Material is normally suitable subject to chemical compatibility.	
Area 2:	Material may be suitable but a technical evaluation is recommended.	
Area 3:	Contact Klinger for technical evaluation.	

## KLINGERSIL C-4408G2: sheets

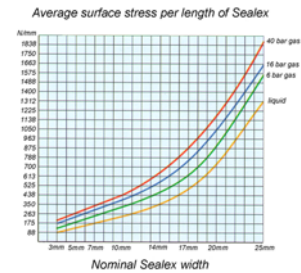
Article no.	Thickness (mm)	Dimension (mm)	Article no.	Thickness (mm)	Dimension (mm)
65031010	1,00	2000 x 1500	65031020	2,00	2000 x 1500
65031015	1,50	2000 x 1500	65031030	3,00	2000 x 1500

## KLINGERSIL C-4408G2: DIN (86044) flange gaskets 2,0 mm suppl. in sections.

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
65470250	DN 250			65470250	DN 250		
65470300	DN 300			65471300	DN 1300		
65470350	DN 350			65471400	DN 1400		
65470400	DN 400			65471500	DN 1500		
65470450	DN 450			65471600	DN 1600		
65470500	DN 500			65471800	DN 1800		
65470550	DN 550			65472000	DN 2000		
65470600	DN 600			65472200	DN 2200		
65470700	DN 700						
65470800	DN 800						
65470900	DN 900						
65471000	DN 1000						
65471100	DN 1100						
65471200	DN 1200						

## PTFE gasket

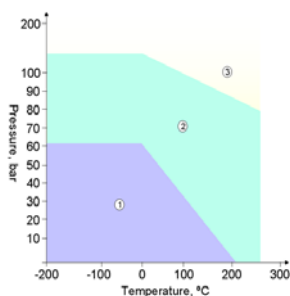
<b>PTFE sealing tape</b>		<b>Type : Klinger Sealex</b>	
<b>Expanded PTFE with adhesive backing</b>			
<b>Suitable for:</b> Resistance to almost all media, and where bolt load is limited.			
<ul style="list-style-type: none"> <li>* Highly compressible.</li> <li>* Chemical resistance of PTFE.</li> <li>* Provides safe sealing at low bolt loads or where flange surfaces are uneven.</li> <li>* Available in roll form.</li> <li>* Use Klinger Softchem for delivery as sheets or call us.</li> </ul>			
<b>Specifications</b>			
<b>Type</b>	:	<b>Klinger Sealex</b>	
<b>Material</b>	:	<b>Expanded PTFE with adhesive backing.</b>	
<b>Colour</b>	:	White	
Compressibility ASTM F36A	:	60%	
Recovery ASTM F36A	:	12%	
Gas sealability DIN 3535/6	:	<0,1 ml/min.	
<b>Approvals</b>	:	BAM TA-Luft WRC DVGW TÜV	



Article no.	Roll length (m)	Dimension (mm)	Article no.	Roll length (m)	Dimension (mm)
65450315	30	3 x 1,5	65451450	5	14 x 5,0
65450520	20	5 x 2,0	65451760	5	17 x 6,0
65450725	15	7 x 2,5	65452070	5	20 x 7,0
65451030	8	10 x 3,5	65452580	5	25 x 8,0



## PTFE



<b>PTFE</b>	<b>Type : KLINGERtop-chem-2003</b>
<b>Modified PTFE</b>	
<b>Suitable for:</b> Virtually all media and where flanges are delicate or bolt load is limited.	
<ul style="list-style-type: none"> <li>* Chemical resistance approaching that of PTFE.</li> <li>* Excellent sealability even at low bolt loads or temperatures.</li> <li>* Ideal for non-metallic flanges and damaged sealing surfaces.</li> <li>* Available in sheet form or as cut gaskets.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>KLINGERtop-chem-2003</b>
<b>Material</b>	: <b>Modified PTFE</b>
<b>Colour</b>	: Light beige both sides
Compressibility ASTM F36A	: 18%
Recovery ASTM F36A	: 40%
Pressure stability DIN 52913 (2,0mm)	: 13 N/mm <sup>2</sup> (150°C/30MPa)
Gas leakage DIN 3535/6	: <0,1 ml/min.
Density	: 1,7 g/cm <sup>3</sup>
<b>Approvals</b>	: DIN DVGW TA Luft KTW+FDA Germanischer Lloyd
Pressure- and temperature diagram:	
Area 1:	Material is normally suitable subject to chemical compatibility.
Area 2:	Materials may be suitable but a technical evaluation is recommended.
Area 3:	Contact Klinger for technical evaluation.

### KLINGERtop-chem-2003: sheets

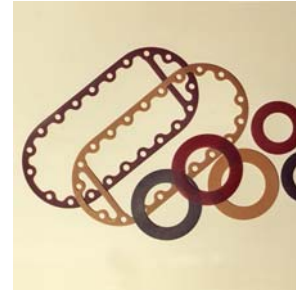
Article no.	Thickness (mm)	Dimension (mm)
65162015	1,50	1500 x 1500
65162020	2,00	1500 x 1500
65162030	3,00	1500 x 1500

### KLINGERtop-chem-2003: DIN flange gaskets 1,5 mm

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
	DN 10	PN 10-40	45 x 18 mm		DN 10	PN 10-40	45 x 18 mm
65768130	DN 15	PN 10-40	50 x 22 mm	65768143	DN 150	PN 25-40	225 x 169 mm
65768131	DN 20	PN 10-40	60 x 28 mm	65768144	DN 200	PN 10-16	273 x 220 mm
65768132	DN 25	PN 10-40	70 x 35 mm	65768145	DN 200	PN 25	285 x 220 mm
65768133	DN 32	PN 10-40	82 x 43 mm	65768146	DN 200	PN 40	292 x 220 mm
65768134	DN 40	PN 10-40	92 x 49 mm	65768147	DN 250	PN 10	328 x 274 mm
65768135	DN 50	PN 10-40	107 x 61 mm	65768148	DN 250	PN 16	330 x 274 mm
65768136	DN 65	PN 10-40	127 x 77 mm	65768149	DN 250	PN 25	342 x 274 mm
65768137	DN 80	PN 10-40	142 x 90 mm	65768150	DN 250	PN 40	353 x 274 mm
65768138	DN 100	PN 10-16	162 x 115 mm	65768151	DN 300	PN 10	378 x 325 mm
65768139	DN 100	PN 25-40	168 x 115 mm	65768152	DN 300	PN 16	385 x 325 mm
65768140	DN 125	PN 10-16	192 x 141 mm	65768153	DN 300	PN 25	402 x 325 mm
65768141	DN 125	PN 25-40	195 x 141 mm	65768154	DN 300	PN 40	418 x 325 mm
65768142	DN 150	PN 10-16	218 x 169 mm				

## Rubber sheets

<b>NBR</b>	<b>Type : Nitrile</b>
<b>Nitrile (NBR) rubber</b>	
<b>Suitable for:</b> Hydrocarbons with low aromatic content, air, water, hydraulic oils and grease.	
* Universal oilresistant rubber	
<b>Specifications</b>	
<b>Type</b>	: <b>Nitrile</b>
<b>Material</b>	: <b>NBR</b>
<b>Color</b>	: <b>Black</b>
<b>Density</b>	: approx. 1,5 g/cm <sup>3</sup>
<b>Shore A</b>	: approx. 65 +/-5
<b>Tensile strength</b>	: approx 6 N/mm <sup>2</sup>
<b>Elongation at break</b>	: approx 250%
<b>Temperature</b>	: -25°C to +100°C



### NBR: sheets

Article no.	Thickness (mm)	Dimension (mm)
65809210	1,00	1400 x 1000
65809215	1,50	1400 x 1000
65809220	2,00	1400 x 1000
65809230	3,00	1400 x 1000
65809240	4,00	1400 x 1000
65809250	5,00	1400 x 1000

## Rubber sheets



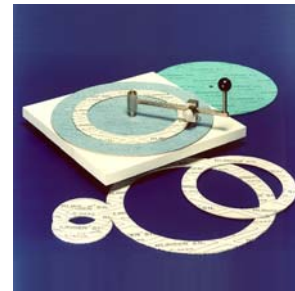
<b>EPDM</b>	<b>Type : EPDM</b>
<b>EPDM (Ethylene-Propylene) rubber</b>	
<b>Suitable for:</b> Hot and cold water, saturated steam, air, oxidizing chemical products, animal- and vegetable oils, foodindustri, acetone.	
* Universal rubber. * Flexible even at very low temperature.	
<b>Specifications</b>	
<b>Type</b>	: <b>EPDM</b>
<b>Material</b>	: <b>Ethylene-Propylene</b>
<b>Color</b>	: <b>Black</b>
<b>Density</b>	: approx. 1,3 g/cm <sup>3</sup>
<b>Shore A</b>	: approx. 70 +/-5
<b>Tensile strength</b>	: approx. 3 N/mm <sup>2</sup>
<b>Elongation at break</b>	: approx. 200%
<b>Temperature</b>	: -30°C to +115°C

## NBR: sheets

Article no.	Thickness (mm)	Dimension (mm)
65809310	1,00	1400 x 1000
65809315	1,50	1400 x 1000
65809320	2,00	1400 x 1000
65809330	3,00	1400 x 1000
65809340	4,00	1400 x 1000
65809350	5,00	1400 x 1000

## Ring gasket cutter

<b>Ring gasket cutter</b>	<b>Type : 1250 and 300</b>
<b>Suitable for:</b> Cutting your own ring gaskets of fibre materials.	
* Also available with motor (Type 1250).	
<b>Specifications</b>	
<b>Type</b>	<b>: 1250 and 300</b>



## Ring gasket cutter

Article no.	Type	Ring diameter		Thickness
		Max. (mm)	Min. (mm)	Max. (mm)
60851020	1250	1250	80	6
60851010	300	300	25	4

## Cork-rubber sheets



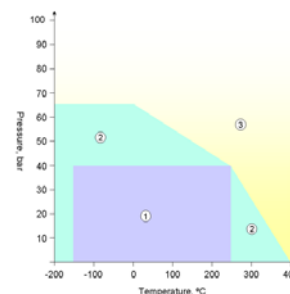
<b>Cork-rubber</b>	<b>Type : Cork-rubber 1237</b>
<b>Cork-rubber (synthetic)</b>	
<b>Suitable for:</b> The physical characteristics along with oil and fuel resistance make this a qualified material for many industries.	
* A high compressible material suitable for low and medium bolt pressure, with good flexibility and resilience.	
<b>Specifications</b>	
<b>Type</b>	: <b>Cork-rubber 1237</b>
<b>Material</b>	: <b>Cork-rubber (synthetic)</b>
<b>Color</b>	: <b>Brown/black</b>
<b>Density</b>	: approx. Min. 480 kg/³
<b>Shore A</b>	: 50-70
<b>Compressibility</b>	: 35-50% (400 psi)
<b>Tensile strength</b>	: Min. 0,93 M Pa
<b>Recovery</b>	: Min. 80%
<b>Volume Change</b>	: ASTM Oil #1 (70 h at 100°C): 5% to 10%
	: IRM 903 (70 h at 100°C): 10% to 40%
	: Fuel A (22 h at 23°C): 0% to 15%

## Cork-rubber: sheets

Article no.	Thickness (mm)	Dimension (mm)
65288085	1,00	1000 x 1000
65288082	1,50	1000 x 1000
65288086	2,00	1000 x 1000
65288083	2,50	1000 x 1000
65288084	3,00	1000 x 1000

## Fibre gaskets

Fibre gaskets		Type : KLINGERSIL C-4430
<b>Glass fibre bonded NBR</b>		
<b>Suitable for:</b> Oils, steam, hydrocarbons, oxygen and potable water applications.		
* One of the best and strongest all-round materials with high surface pressure resiliency. It has a high temperature resistance. The material has a premium stress retention. * Available as sheets or cut gaskets.		
<b>Specifications</b>		
<b>Type</b>	: KLINGERSIL C-4430	
<b>Material</b>	: Glass fibre with NBR	
<b>Color</b>	: Light yellow/green or light yellow on both sides	
<b>Compressibility ASTM F36A</b>	: 9%	
<b>Recovery ASTM F36A</b>	: Min. 50%	
<b>Pressure stability DIN 52913 (2mm)</b>	: 35 N/mm <sup>2</sup>	
<b>Gas sealability DIN 3535/6</b>	: <1,0 ml/min.	
<b>Density</b>	: 1,55 g/cm <sup>3</sup>	
<b>Approvals</b>	: DIN DVGW DVGW W270 TA-Luft BAM UVV 28 BS 7531 Grade AX Fire safe BS 5146 WRC+KTW Germanischer Lloyd	
Pressure- and temperature diagram:		
Area 1:	Material is normally suitable subject to chemical compatibility.	
Area 2:	Materials may be suitable but a technical evaluation is recommended.	
Area 3:	Contact Klinger for technical evaluation.	



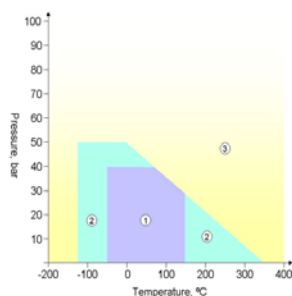
### KLINGERSIL C-4430: sheets

Article no.	Thickness (mm)	Dimension (mm)	Article no.	Thickness (mm)	Dimension (mm)
65041002	0,25	2000 x 1500	65041010	1,00	2000 x 1500
65048021	0,40	2000 x 1500	65041015	1,50	2000 x 1500
65041005	0,50	2000 x 1500	65041020	2,00	2000 x 1500
65041008	0,80	2000 x 1500	65041030	3,00	2000 x 1500

### KLINGERSIL C-4430: DIN flange gaskets 1,5 mm

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
	DN 10	PN 10-40			45 x 18	DN 10	
65052015	DN 15	PN 10-40	50 x 22	65054150	DN 150	PN 25-40	225 x 169
65052020	DN 20	PN 10-40	60 x 28	65052200	DN 200	PN 10-16	273 x 220
65052025	DN 25	PN 10-40	70 x 35	65053200	DN 200	PN 25	285 x 220
65052032	DN 32	PN 10-40	82 x 43	65054200	DN 200	PN 40	292 x 220
65052040	DN 40	PN 10-40	92 x 49	65058207	DN 250	PN 10	328 x 274
65052050	DN 50	PN 10-40	107 x 61	65052250	DN 250	PN 16	330 x 274
65052065	DN 65	PN 10-40	127 x 77	65058864	DN 250	PN 25	342 x 274
65052080	DN 80	PN 10-40	142 x 90	65054250	DN 250	PN 40	353 x 274
65052100	DN 100	PN 10-16	162 x 115	65058208	DN 300	PN 10	378 x 325
65054100	DN 100	PN 25-40	168 x 115	65052300	DN 300	PN 16	385 x 325
65052125	DN 125	PN 10-16	192 x 141	65058424	DN 300	PN 25	402 x 325
65054125	DN 125	PN 25-40	195 x 141	65054300	DN 300	PN 40	418 x 325
65052150	DN 150	PN 10-16	218 x 169				

## Fibre gaskets



Fibre gaskets		Type : KLINGERSIL C-4324
Aramid and glass fibre bonded with NBR		
Suitable for: Liquids and low pressure steam, good resistance to water and oil, excellent resistance to gas leakage.		
* A strong and economic quality material for a wide industrial application. * Available as sheets or cut gaskets.		
<b>Specifications</b>		
Type	: KLINGERSIL C-4324	
Material	: Aramid and glass fibre with NBR	
Color	: Green/Black	
Compressibility ASTM F36A	:	10%
Recovery ASTM F36A	:	Min. 55%
Pressure stability DIN 52913 (2mm)	:	20 N/mm <sup>2</sup>
Gas sealability DIN 3535/6	:	≤0,1 mg/s x m
Density	:	1,85 g/cm <sup>3</sup>
Approvals	:	DIN DVGW WRC+KTW Germanischer Lloyd
Pressure- and temperature diagram:		
Area 1:	Material is normally suitable subject to chemical compatibility.	
Area 2:	Material may be suitable but a technical evaluation is recommended.	
Area 3:	Contact Klinger for technical evaluation.	

### KLINGERSIL C-4324: sheets

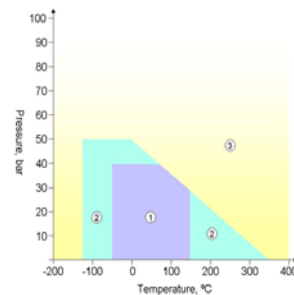
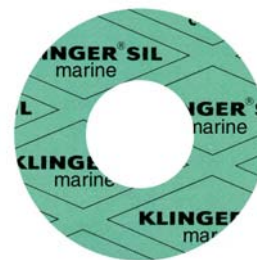
Article no.	Thickness (mm)	Dimension (mm)	Article no.	Thickness (mm)	Dimension (mm)
65001010	1,00	2000 x 1500	65001020	2,00	2000 x 1500
65001015	1,50	2000 x 1500	65001030	3,00	2000 x 1500

### KLINGERSIL C-4324: DIN flange gaskets 1,5 mm

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
<b>65018405</b>	<b>DN 10</b>	<b>PN 10-40</b>	<b>45 x 18</b>	<b>65018405</b>	<b>DN 10</b>	<b>PN 10-40</b>	<b>45 x 18</b>
65012015	DN 15	PN 10-40	50 x 22	65014150	DN 150	PN 25-40	225 x 169
65012020	DN 20	PN 10-40	60 x 28	65012200	DN 200	PN 10-16	273 x 220
65012025	DN 25	PN 10-40	70 x 35	65018205	DN 200	PN 25	285 x 220
65012032	DN 32	PN 10-40	82 x 43	65014200	DN 200	PN 40	292 x 220
65012040	DN 40	PN 10-40	92 x 49	65018254	DN 250	PN 10	328 x 274
65012050	DN 50	PN 10-40	107 x 61	65012250	DN 250	PN 16	330 x 274
65012065	DN 65	PN 10-40	127 x 77	65018391	DN 250	PN 25	342 x 274
65012080	DN 80	PN 10-40	142 x 90	65014250	DN 250	PN 40	353 x 274
65012100	DN 100	PN 10-16	162 x 115	65018209	DN 300	PN 10	378 x 325
65014100	DN 100	PN 25-40	168 x 115	65012300	DN 300	PN 16	385 x 325
65012125	DN 125	PN 10-16	192 x 141	65018189	DN 300	PN 25	402 x 325
65014125	DN 125	PN 25-40	195 x 141	65014300	DN 300	PN 40	418 x 325
65012150	DN 150	PN 10-16	218 x 169				

## Fibre gaskets

<b>Fibre gaskets</b>		<b>Type : KLINGERSIL Marine</b>	
<b>Synthetic fibres bonded with NBR</b>			
<b>Suitable for:</b> Oil, water and gases at lower pressure and temperature.			
* A strong and economic quality material for marine application. * Available as sheets. Cut gaskets are supplied in KLINGERSIL C-4324.			
<b>Specifications</b>			
<b>Type</b>	:	<b>KLINGERSIL Marine</b>	
<b>Material</b>	:	<b>Synthetic fibres with NBR</b>	
<b>Color</b>	:	Green/Black	
Compressibility ASTM F36A	:	15%	
Recovery ASTM F36A	:	Min. 50%	
Pressure stability DIN 52913 (2mm)	:	20 N/mm <sup>2</sup>	
Density	:	1,60 g/cm <sup>3</sup>	
Pressure- and temperature diagram:			
Area 1:	Material is normally suitable subject to chemical compatibility.		
Area 2:	Material may be suitable but a technical evaluation is recommended.		
Area 3:	Contact Klinger for technical evaluation.		

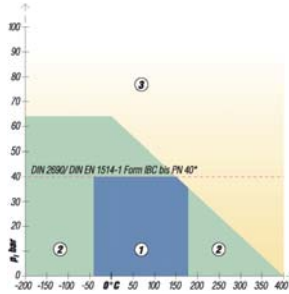


### KLINGERSIL Marine: sheets

Article no.	Thickness (mm)	Dimension (mm)	Article no.	Thickness (mm)	Dimension (mm)
65005010	1,00	2000 x 1500	65005020	2,00	2000 x 1500
65005015	1,50	2000 x 1500	65005030	3,00	2000 x 1500



## Fibre gaskets



Fibre gaskets		Type : KLINGERSIL C-4408G2
Aramid fibre bonded with NBR - steel wire mesh		
Suitable for: Fuels, oils and hydrocarbons. Successful in internal combustion engine applications.		
* Graphite anti-stick finish on both sides. * Available as sheets or cut gaskets.		
<b>Specifications</b>		
Type	: KLINGERSIL C-4408G2	
Material	: Aramid bonded with NBR and steel wire mesh reinforcement.	
Color	: Gray/black both sides	
Compressibility ASTM F36A	:	8%
Recovery ASTM F36A	:	50%
Density	:	1,9 g/cm <sup>3</sup>
Pressure- and temperature diagram:		
Area 1:	Material is normally suitable subject to chemical compatibility.	
Area 2:	Material may be suitable but a technical evaluation is recommended.	
Area 3:	Contact Klinger for technical evaluation.	

## KLINGERSIL C-4408G2: sheets

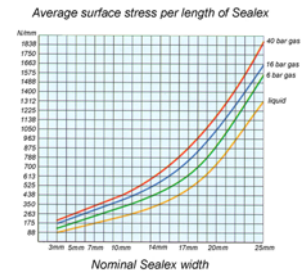
Article no.	Thickness (mm)	Dimension (mm)	Article no.	Thickness (mm)	Dimension (mm)
65031010	1,00	2000 x 1500	65031020	2,00	2000 x 1500
65031015	1,50	2000 x 1500	65031030	3,00	2000 x 1500

## KLINGERSIL C-4408G2: DIN (86044) flange gaskets 2,0 mm suppl. in sections.

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
65470250	DN 250			65470250	DN 250		
65470300	DN 300			65471300	DN 1300		
65470350	DN 350			65471400	DN 1400		
65470400	DN 400			65471500	DN 1500		
65470450	DN 450			65471600	DN 1600		
65470500	DN 500			65471800	DN 1800		
65470550	DN 550			65472000	DN 2000		
65470600	DN 600			65472200	DN 2200		
65470700	DN 700						
65470800	DN 800						
65470900	DN 900						
65471000	DN 1000						
65471100	DN 1100						
65471200	DN 1200						

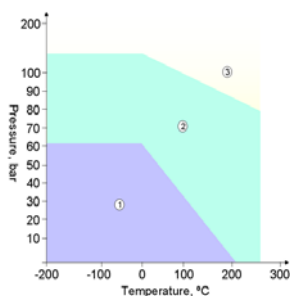
## PTFE gasket

<b>PTFE sealing tape</b>		<b>Type : Klinger Sealex</b>	
<b>Expanded PTFE with adhesive backing</b>			
<b>Suitable for:</b> Resistance to almost all media, and where bolt load is limited.			
<ul style="list-style-type: none"> <li>* Highly compressible.</li> <li>* Chemical resistance of PTFE.</li> <li>* Provides safe sealing at low bolt loads or where flange surfaces are uneven.</li> <li>* Available in roll form.</li> <li>* Use Klinger Softchem for delivery as sheets or call us.</li> </ul>			
<b>Specifications</b>			
<b>Type</b>	:	<b>Klinger Sealex</b>	
<b>Material</b>	:	<b>Expanded PTFE with adhesive backing.</b>	
<b>Colour</b>	:	White	
Compressibility ASTM F36A	:	60%	
Recovery ASTM F36A	:	12%	
Gas sealability DIN 3535/6	:	<0,1 ml/min.	
<b>Approvals</b>	:	BAM TA-Luft WRC DVGW TÜV	



Article no.	Roll length (m)	Dimension (mm)	Article no.	Roll length (m)	Dimension (mm)
65450315	30	3 x 1,5	65451450	5	14 x 5,0
65450520	20	5 x 2,0	65451760	5	17 x 6,0
65450725	15	7 x 2,5	65452070	5	20 x 7,0
65451030	8	10 x 3,5	65452580	5	25 x 8,0

## PTFE



**PTFE** Type : **KLINGERtop-chem-2003**

**Modified PTFE**

**Suitable for:** Virtually all media and where flanges are delicate or bolt load is limited.

- \* Chemical resistance approaching that of PTFE.
- \* Excellent sealability even at low bolt loads or temperatures.
- \* Ideal for non-metallic flanges and damaged sealing surfaces.
- \* Available in sheet form or as cut gaskets.

### Specifications

**Type** : **KLINGERtop-chem-2003**

**Material** : **Modified PTFE**

**Colour** : Light beige both sides

Compressibility ASTM F36A : 18%  
 Recovery ASTM F36A : 40%  
 Pressure stability DIN 52913 (2,0mm) : 13 N/mm<sup>2</sup> (150°C/30MPa)  
 Gas leakage DIN 3535/6 : <0,1 ml/min.  
 Density : 1,7 g/cm<sup>3</sup>

**Approvals** : DIN DVGW  
 TA Luft  
 KTW+FDA  
 Germanischer Lloyd

Pressure- and temperature diagram:

- Area 1: Material is normally suitable subject to chemical compatibility.  
 Area 2: Materials may be suitable but a technical evaluation is recommended.  
 Area 3: Contact Klinger for technical evaluation.

### KLINGERtop-chem-2003: sheets

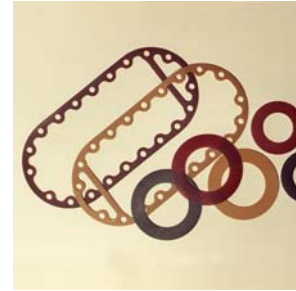
Article no.	Thickness (mm)	Dimension (mm)
65162015	1,50	1500 x 1500
65162020	2,00	1500 x 1500
65162030	3,00	1500 x 1500

### KLINGERtop-chem-2003: DIN flange gaskets 1,5 mm

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
	DN 10	PN 10-40	45 x 18 mm		DN 10	PN 10-40	45 x 18 mm
65768130	DN 15	PN 10-40	50 x 22 mm	65768143	DN 150	PN 25-40	225 x 169 mm
65768131	DN 20	PN 10-40	60 x 28 mm	65768144	DN 200	PN 10-16	273 x 220 mm
65768132	DN 25	PN 10-40	70 x 35 mm	65768145	DN 200	PN 25	285 x 220 mm
65768133	DN 32	PN 10-40	82 x 43 mm	65768146	DN 200	PN 40	292 x 220 mm
65768134	DN 40	PN 10-40	92 x 49 mm	65768147	DN 250	PN 10	328 x 274 mm
65768135	DN 50	PN 10-40	107 x 61 mm	65768148	DN 250	PN 16	330 x 274 mm
65768136	DN 65	PN 10-40	127 x 77 mm	65768149	DN 250	PN 25	342 x 274 mm
65768137	DN 80	PN 10-40	142 x 90 mm	65768150	DN 250	PN 40	353 x 274 mm
65768138	DN 100	PN 10-16	162 x 115 mm	65768151	DN 300	PN 10	378 x 325 mm
65768139	DN 100	PN 25-40	168 x 115 mm	65768152	DN 300	PN 16	385 x 325 mm
65768140	DN 125	PN 10-16	192 x 141 mm	65768153	DN 300	PN 25	402 x 325 mm
65768141	DN 125	PN 25-40	195 x 141 mm	65768154	DN 300	PN 40	418 x 325 mm
65768142	DN 150	PN 10-16	218 x 169 mm				

## Rubber sheets

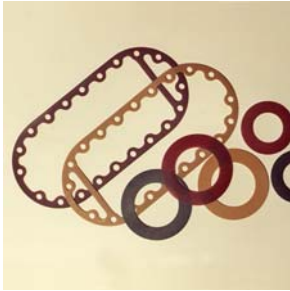
<b>NBR</b>	<b>Type : Nitrile</b>
<b>Nitrile (NBR) rubber</b>	
<b>Suitable for:</b> Hydrocarbons with low aromatic content, air, water, hydraulic oils and grease.	
* Universal oilresistant rubber	
<b>Specifications</b>	
<b>Type</b>	: <b>Nitrile</b>
<b>Material</b>	: <b>NBR</b>
<b>Color</b>	: <b>Black</b>
<b>Density</b>	: approx. 1,5 g/cm <sup>3</sup>
<b>Shore A</b>	: approx. 65 +/-5
<b>Tensile strength</b>	: approx 6 N/mm <sup>2</sup>
<b>Elongation at break</b>	: approx 250%
<b>Temperature</b>	: -25°C to +100°C



### NBR: sheets

Article no.	Thickness (mm)	Dimension (mm)
65809210	1,00	1400 x 1000
65809215	1,50	1400 x 1000
65809220	2,00	1400 x 1000
65809230	3,00	1400 x 1000
65809240	4,00	1400 x 1000
65809250	5,00	1400 x 1000

## Rubber sheets



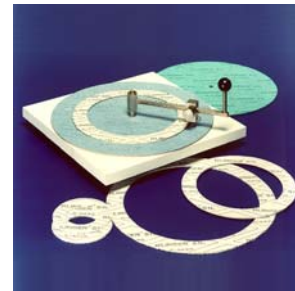
<b>EPDM</b>	<b>Type : EPDM</b>
<b>EPDM (Ethylene-Propylene) rubber</b>	
<b>Suitable for:</b> Hot and cold water, saturated steam, air, oxidizing chemical products, animal- and vegetable oils, foodindustri, acetone.	
* Universal rubber. * Flexible even at very low temperature.	
<b>Specifications</b>	
<b>Type</b>	: <b>EPDM</b>
<b>Material</b>	: <b>Ethylene-Propylene</b>
<b>Color</b>	: <b>Black</b>
<b>Density</b>	: approx. 1,3 g/cm <sup>3</sup>
<b>Shore A</b>	: approx. 70 +/-5
<b>Tensile strength</b>	: approx. 3 N/mm <sup>2</sup>
<b>Elongation at break</b>	: approx. 200%
<b>Temperature</b>	: -30°C to +115°C

## NBR: sheets

Article no.	Thickness (mm)	Dimension (mm)
65809310	1,00	1400 x 1000
65809315	1,50	1400 x 1000
65809320	2,00	1400 x 1000
65809330	3,00	1400 x 1000
65809340	4,00	1400 x 1000
65809350	5,00	1400 x 1000

## Ring gasket cutter

<b>Ring gasket cutter</b>	<b>Type : 1250 and 300</b>
<b>Suitable for:</b> Cutting your own ring gaskets of fibre materials.	
* Also available with motor (Type 1250).	
<b>Specifications</b>	
<b>Type</b>	<b>: 1250 and 300</b>



## Ring gasket cutter

Article no.	Type	Ring diameter		Thickness
		Max. (mm)	Min. (mm)	Max. (mm)
60851020	1250	1250	80	6
60851010	300	300	25	4

## Cork-rubber sheets



<b>Cork-rubber</b>	<b>Type : Cork-rubber 1237</b>
<b>Cork-rubber (synthetic)</b>	
<b>Suitable for:</b> The physical characteristics along with oil and fuel resistance make this a qualified material for many industries.	
* A high compressible material suitable for low and medium bolt pressure, with good flexibility and resilience.	
<b>Specifications</b>	
<b>Type</b>	: <b>Cork-rubber 1237</b>
<b>Material</b>	: <b>Cork-rubber (synthetic)</b>
<b>Color</b>	: <b>Brown/black</b>
<b>Density</b>	: approx. Min. 480 kg/³
<b>Shore A</b>	: 50-70
<b>Compressibility</b>	: 35-50% (400 psi)
<b>Tensile strength</b>	: Min. 0,93 M Pa
<b>Recovery</b>	: Min. 80%
<b>Volume Change</b>	: ASTM Oil #1 (70 h at 100°C): 5% to 10%
	: IRM 903 (70 h at 100°C): 10% to 40%
	: Fuel A (22 h at 23°C): 0% to 15%

## Cork-rubber: sheets

Article no.	Thickness (mm)	Dimension (mm)
65288085	1,00	1000 x 1000
65288082	1,50	1000 x 1000
65288086	2,00	1000 x 1000
65288083	2,50	1000 x 1000
65288084	3,00	1000 x 1000

**Gaskets**

**Graphite**



## Graphite gaskets

<b>Graphite gaskets</b>		<b>Type : RivaTherm-Super</b>	
<b>Graphite with a tanged stainless steel insert and "anti-stick" impregnation.</b>			
<b>Suitable for:</b> Steam, hot water and thermal oils.			
<ul style="list-style-type: none"> <li>* Excelent chemical and temperature resistance.</li> <li>* High compressibility.</li> <li>* "Anti-stick" impregnation.</li> <li>* Available as sheets or cut gaskets.</li> </ul>			
<b>Specifications</b>			
<b>Type</b>	: <b>RivaTherm-Super</b>		
<b>Material</b>	: <b>Graphite 99,98% pure with tanged stainless steel insert reinforcement and "anti-stick" impregnation.</b>		
<b>Color</b>	: Grey / white print		
<b>Density</b>	:	1,0 g/cm <sup>3</sup>	
<b>Compressibility ASTM F36A</b>	:	50%	
<b>Recovery ASTM F36A</b>	:		
<b>Pressure stability DIN 52913(2mm)</b>	:	45 N/mm <sup>2</sup>	
<b>Gas sealability DIN 3535/6</b>	:	<0,2 ml/min.	
<b>IMPA Identity No.</b>	:	811110 / 811130	
<b>Approvals</b>	:	DIN DVGW BAM	
<b>Pressure- and temperature diagram :</b>			
<b>Area 1:</b>	Material is normally suitable subject to chemical compatibility.		
<b>Area 2:</b>	Material may be suitable but a technical evaluation is recommended.		
<b>Area 3:</b>	Contact Klinger for technical evaluation.		



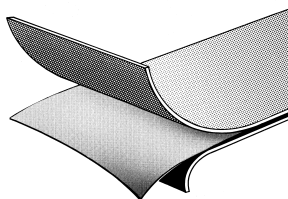
### RivaTherm-Super: sheets

Article no.	Thickness (mm)	Dimension (mm)
65771010	1,00	1000 x 1000
65771015	1,50	1000 x 1000
65771020	2,00	1000 x 1000
65771030	3,00	1000 x 1000

### RivaTherm-Super: DIN flange gaskets 2,0 mm

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
<b>65772010</b>	<b>DN 10</b>	<b>PN 10-40</b>	<b>45 x 18</b>	<b>65772010</b>	<b>DN 10</b>	<b>PN 10-40</b>	<b>45 x 18</b>
65772015	DN 15	PN 10-40	50 x 22	65774150	DN 150	PN 25-40	225 x 169
65772020	DN 20	PN 10-40	60 x 28	65772200	DN 200	PN 10-16	273 x 220
65772025	DN 25	PN 10-40	70 x 35	65773200	DN 200	PN 25	285 x 220
65772032	DN 32	PN 10-40	82 x 43	65774200	DN 200	PN 40	292 x 220
65772040	DN 40	PN 10-40	92 x 49	65778000	DN 250	PN 10	328 x 274
65772050	DN 50	PN 10-40	107 x 61	65772250	DN 250	PN 16	330 x 274
65772065	DN 65	PN 10-40	127 x 77	65778001	DN 250	PN 25	342 x 274
65772080	DN 80	PN 10-40	142 x 90	65774250	DN 250	PN 40	353 x 274
65772100	DN 100	PN 10-16	162 x 115	65778002	DN 300	PN 10	378 x 325
65774100	DN 100	PN 25-40	168 x 115	65772300	DN 300	PN 16	385 x 325
65772125	DN 125	PN 10-16	192 x 141	65773300	DN 300	PN 25	402 x 325
65774125	DN 125	PN 25-40	195 x 141	65774300	DN 300	PN 40	418 x 325
65772150	DN 150	PN 10-16	218 x 169				

## Graphite gaskets



Graphite gaskets		Type : Klinger SLS-C/AS
<b>Graphite with stainless steel foil insert, "anti-stick" coating.</b>		
<b>Suitable for:</b> A wide range of industrial sealing applications including steam, hot water, thermal oils and hydrocarbons.		
<ul style="list-style-type: none"> <li>* Excellent chemical and temperature resistance.</li> <li>* High compressibility.</li> <li>* Easy to cut.</li> <li>* "Anti-Stick" finish.</li> <li>* Available in sheet form. Cut gaskets in DIN sizes are supplied in RivaTherm-Super 2,0 mm.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	:	<b>Klinger SLS-C/AS</b>
<b>Material</b>	:	<b>Pure exfoliated graphite with stainless steel foil reinforcement.</b>
<b>Colour</b>	:	Grey
Density	:	1,0 g/cm <sup>3</sup>
Compressibility acc. to ASTM F36J	:	40%
Recovery acc. to ASTM F36J	:	15%
Stress relaxation acc. to DIN 52913(2mm)	:	Min. 46 N/mm <sup>2</sup>
Sealability DIN 3535/6	:	<0,5 ml/min.

### Klinger SLS-C/AS: Sheets

Varenr.	Tykkelse (mm)	Pladedimension (mm)
65188130	1,00	1000 x 1000
65188131	1,50	1000 x 1000
65188132	2,00	1000 x 1000
65188133	3,00	1000 x 1000

## **Gaskets**

### **Metallic Spiral Wound**

## Spiral wound gaskets

<b>Graphite filled Klinger Maxiflex DIN</b>		<b>Type : CRIR</b>
<b>Centering ring, element, inner ring, DIN</b>		
<b>Suitable for:</b> a wide range of media including steam, oil, hydrocarbons and many chemicals.		
<ul style="list-style-type: none"> <li>* High pressure gasket designed for raised and flat face applications.</li> <li>* Excellent tightness properties even under fluctuating loads.</li> <li>* Easy to handle and install.</li> <li>* Inner ring protects windings against media and adds stability at higher pressure.</li> </ul>		
<b>Specifications</b>		
<b>Type</b>	:	<b>CRIR</b>
Element	:	Graphite/316L
Centering ring	:	Steel epoxy coated
Inner ring	:	316L
Max. temperature	:	450°-600°C.
Max. pressure	:	250 bar
Suitability	:	for flanges acc. to DIN



### PN 10-40 DIN

Article no.	DN	Dimension (mm)
65362010	10	46 x 36 x 24 x 18
65362015	15	51 x 40 x 28 x 22
65362020	20	61 x 47 x 33 x 27
65362025	25	71 x 54 x 40 x 34
65362032	32	82 x 65 x 49 x 43
65362040	40	92 x 70 x 54 x 48
65362050	50	107 x 84 x 66 x 57
65362065	65	127 x 102 x 82 x 73
65362080	80	142 x 115 x 95 x 86

### PN 10-16 DIN

Article no.	DN	Dimension (mm)
65362100	100	162 x 140 x 120 x 108
65362125	125	192 x 168 x 146 x 134
65362150	150	217 x 196 x 174 x 162
65362200	200	272 x 251 x 225 x 213
65362201	250	328 x 307 x 286 x 267

### PN 10 DIN

Article no.	DN	Dimension (mm)
65362202	300	377 x 358 x 337 x 318

### PN 16 DIN

Article no.	DN	Dimension (mm)
65368215	300	383 x 358 x 337 x 318

## Spiral wound gaskets

### PN 25-40 DIN

Article no.	DN	Dimension (mm)
65363100	100	167 x 140 x 120 x 108
65363125	125	193 x 168 x 146 x 134
65363150	150	223 x 196 x 174 x 162

### PN 25 DIN

Article no.	DN	Dimension (mm)
65364200	200	283 x 251 x 225 x 213
65364201	250	340 x 307 x 286 x 267
65364202	300	400 x 358 x 337 x 318

### PN 40 DIN

Article no.	DN	Dimension (mm)
65363200	200	290 x 251 x 225 x 213
65368080	250	352 x 307 x 286 x 267
65368081	300	417 x 358 x 337 x 318
65368024	100	167 x 140 x 120 x 108
65368022	125	193 x 168 x 146 x 134
65363500	150	223 x 196 x 174 x 162
65363600	150	223 x 196 x 174 x 162

### PN 64 DIN

Article no.	DN	Dimension (mm)
65365050	50	112 x 84 x 66 x 57
65365065	65	137 x 104 x 82 x 73
65365080	80	147 x 115 x 95 x 86
65365100	100	173 x 140 x 120 x 108
65365125	125	210 x 172 x 146 x 134
65365150	150	247 x 200 x 174 x 162
65365200	200	309 x 257 x 225 x 213
65365301	250	364 x 315 x 286 x 267
65365300	300	424 x 366 x 337 x 318

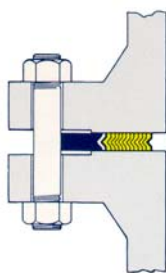
### PN 64-160 DIN

Article no.	DN	Dimension (mm)
65365010	10	56 x 36 x 24 x 18
65365015	15	61 x 40 x 28 x 22
65365020	20	74 x 47 x 33 x 27
65365025	25	82 x 54 x 40 x 34
65365032	32	90 x 65 x 49 x 43
65365040	40	102 x 70 x 54 x 48

### PN 100-160 DIN

Article no.	DN	Dimension (mm)
65366050	50	118 x 84 x 66 x 57
65366065	65	143 x 104 x 82 x 73
65366080	80	153 x 119 x 95 x 86
65366100	100	180 x 144 x 120 x 108
65366125	125	217 x 172 x 146 x 134
65366150	150	257 x 200 x 174 x 162

## Spiral wound gaskets



<b>Graphite filled Klinger Maxiflex DIN</b>	<b>Type : CR</b>
<b>Centering ring, element, DIN</b>	
<b>Suitable for:</b> a wide range of media including steam, oil, hydrocarbons and many chemicals.	
<ul style="list-style-type: none"> <li>* Medium pressure gasket designed for raised and flat faced applications.</li> <li>* Excellent tightness properties even under fluctuating loads.</li> <li>* Easy to handle and install.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>CR</b>
Element	: Grafit/316L
Centering ring	: Steel epoxy coated
Max. temperature	: 450°-600°C.
Max. pressure	: 100 bar
Suitability	: for flange acc. to DIN

### PN 10 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	10	46 x 36 x 24		40	92 x 70 x 54
	15	51 x 40 x 28		50	107 x 84 x 66
	20	61 x 47 x 33		65	127 x 102 x 82
	25	71 x 54 x 40		80	142 x 115 x 95
	32	82 x 65 x 49			

### PN 16 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	100	162 x 140 x 120		200	272 x 251 x 225
	125	192 x 168 x 146		250	328 x 307 x 286
	150	217 x 196 x 174			

### PN 10 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	300	377 x 358 x 337			

### PN 16 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	300	383 x 358 x 337			

### PN 25 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	250	340 x 307 x 286		150	223 x 196 x 174
	200	283 x 251 x 225			

### PN 25 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	200	283 x 251 x 225		300	400 x 358 x 337

## Spiral wound gaskets

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	250	340 x 307 x 286			

### PN 40 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	200	290 x 251 x 225		300	417 x 358 x 337
	250	352 x 307 x 286			

### PN 64 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	10	56 x 36 x 24		25	82 x 54 x 40
	15	61 x 40 x 28		32	90 x 65 x 49
	20	74 x 47 x 33		40	102 x 70 x 54

### PN 64 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	50	112 x 84 x 66		150	247 x 200 x 174
	65	137 x 104 x 82		200	309 x 257 x 225
	80	147 x 115 x 95		250	364 x 315 x 286
	100	173 x 140 x 120		300	424 x 366 x 337
	125	210 x 172 x 146			

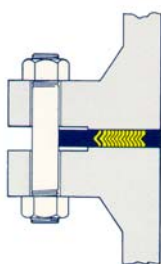
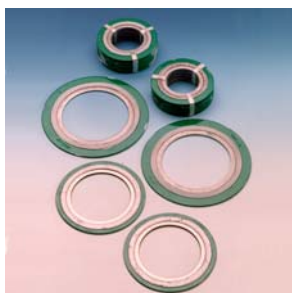
### PN 100 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	50	118 x 84 x 66		100	180 x 144 x 120
	65	143 x 104 x 82		125	217 x 172 x 146
	80	153 x 119 x 95		150	257 x 200 x 174

Also available:

- Other materials on request.
- Other dimensions on request.

## Spiral wound gaskets



**PTFE filled Klinger Maxiflex DIN** **Type : CRIR**

**Centering ring, element, inner ring, DIN**

**Suitable for:** Applications requiring outstanding chemical resistance.

\* Medium pressure gasket designed for raised and flat face applications. Excellent tightness properties even under fluctuating load.

\* Easy to handle and install.

\* Inner ring protects windings against media and adds stability at higher pressure.

### Specifications

**Type** : CRIR  
**Element** : PTFE/316L  
**Centering ring** : Steel epoxy coated  
**Inner ring** : 316L  
  
**Max. temperature** : 260°.  
**Max. pressure** : 160 bar  
  
**Suitability** : for flanges acc. to DIN

## PN 10 DIN

Article no.	DN	Dimension (mm)
	10	46 x 36 x 24 x 18
	15	51 x 40 x 28 x 22
	20	61 x 47 x 33 x 27
	25	71 x 54 x 40 x 34
	32	82 x 65 x 49 x 43
	40	92 x 70 x 54 x 48
	50	107 x 84 x 66 x 57
	65	127 x 102 x 82 x 73
	80	142 x 115 x 95 x 86
	100	162 x 140 x 120 x 108
	125	192 x 168 x 146 x 134
	150	217 x 196 x 174 x 162
	200	272 x 251 x 225 x 213
	250	327 x 307 x 286 x 267
	300	377 x 358 x 337 x 318

## PN 16 DIN

Article no.	DN	Dimension (mm)
	10	46 x 36 x 24 x 18
	15	51 x 40 x 28 x 22
	20	61 x 47 x 33 x 27
	25	71 x 54 x 40 x 34
	32	82 x 65 x 49 x 43
	40	92 x 70 x 54 x 48
	50	107 x 84 x 66 x 57
	65	127 x 102 x 82 x 73
	80	142 x 115 x 95 x 86
	100	162 x 140 x 120 x 108
	125	192 x 168 x 146 x 134



## Spiral wound gaskets

Article no.	DN	Dimension (mm)
	150	217 x 196 x 174 x 162
	200	272 x 251 x 225 x 213
	250	328 x 307 x 286 x 267
	300	383 x 358 x 337 x 318

### PN 25 DIN

Article no.	DN	Dimension (mm)
	10	46 x 36 x 24 x 18
	15	51 x 40 x 28 x 22
	20	61 x 47 x 33 x 27
	25	71 x 54 x 40 x 34
	32	82 x 65 x 49 x 43
	40	92 x 70 x 54 x 48
	50	107 x 84 x 66 x 57
	65	127 x 102 x 82 x 73
	80	142 x 115 x 95 x 86
	100	167 x 140 x 120 x 108
	125	193 x 168 x 146 x 134
	150	223 x 196 x 174 x 162
	200	283 x 251 x 225 x 213
	250	340 x 307 x 286 x 267
	300	400 x 358 x 337 x 318

### PN 40 DIN

Article no.	DN	Dimension (mm)
	10	46 x 36 x 24 x 18
	15	51 x 40 x 28 x 22
	20	61 x 47 x 33 x 27
	25	71 x 54 x 40 x 34
	32	82 x 65 x 49 x 43
	40	92 x 70 x 54 x 48
	50	107 x 84 x 66 x 57
	65	127 x 102 x 82 x 73
	80	142 x 115 x 95 x 86
	100	167 x 140 x 120 x 108
	125	193 x 168 x 146 x 134
	150	223 x 196 x 174 x 162
	200	290 x 251 x 225 x 213
	250	352 x 307 x 286 x 267
	300	417 x 358 x 337 x 318

### PN 64 DIN

Article no.	DN	Dimension (mm)
	10	56 x 36 x 24 x 18
	15	61 x 40 x 28 x 22
	20	74 x 47 x 33 x 27
	25	82 x 54 x 40 x 34
	32	90 x 65 x 49 x 43
	40	102 x 70 x 54 x 48
	50	112 x 84 x 66 x 57
	65	137 x 104 x 82 x 73
	80	147 x 115 x 95 x 86
	100	173 x 140 x 120 x 108

## Spiral wound gaskets

Article no.	DN	Dimension (mm)
	125	210 x 172 x 146 x 134
	150	247 x 200 x 174 x 162
	200	309 x 257 x 225 x 213
	250	364 x 315 x 286 x 267
	300	424 x 366 x 337 x 318

### PN 100 DIN

Article no.	DN	Dimension (mm)
	10	56 x 36 x 24 x 18
	15	61 x 40 x 28 x 22
	20	74 x 47 x 33 x 27
	25	82 x 54 x 40 x 34
	32	90 x 65 x 49 x 43
	40	102 x 70 x 54 x 48
	50	118 x 84 x 66 x 57
	65	143 x 104 x 82 x 73
	80	153 x 119 x 95 x 86
	100	180 x 144 x 120 x 108
	125	217 x 172 x 146 x 134
	150	257 x 200 x 174 x 162

### PN 160 DIN

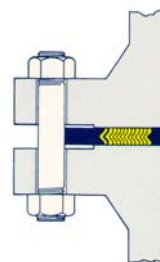
Article no.	DN	Dimension (mm)
	10	56 x 36 x 24 x 18
	15	61 x 40 x 28 x 22
	20	74 x 47 x 33 x 27
	25	82 x 54 x 40 x 34
	32	90 x 65 x 49 x 43
	40	102 x 70 x 54 x 48
	50	118 x 84 x 66 x 57
	65	143 x 104 x 82 x 73
	80	153 x 119 x 95 x 86
	100	180 x 144 x 120 x 108
	125	217 x 172 x 146 x 134
	150	257 x 200 x 174 x 162

Also available:

- Other materials on request.
- Other dimensions on request.
-

## Spiral wound gaskets

<b>Graphite filled Klinger Maxiflex DIN</b>	<b>Type : CRIR</b>
<b>Centering ring, element, inner ring, DIN</b>	
<b>Suitable for:</b> a wide range of media including steam, oil, hydrocarbons and many chemicals.	
<ul style="list-style-type: none"> <li>* High pressure gasket designed for raised and flat face applications.</li> <li>* Excellent tightness properties even under fluctuating loads.</li> <li>* Easy to handle and install.</li> <li>* Inner ring protects windings against media and adds stability at higher pressure.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: CRIR
Element	: Graphite/316L
Centering ring	: Steel epoxy coated
Inner ring	: 316L
Max. temperature	: 450°-600°C.
Max. pressure	: 250 bar
Suitability	: for flanges acc. to DIN



### PN 10-40 DIN

Article no.	DN	Dimension (mm)
65362010	10	46 x 36 x 24 x 18
65362015	15	51 x 40 x 28 x 22
65362020	20	61 x 47 x 33 x 27
65362025	25	71 x 54 x 40 x 34
65362032	32	82 x 65 x 49 x 43
65362040	40	92 x 70 x 54 x 48
65362050	50	107 x 84 x 66 x 57
65362065	65	127 x 102 x 82 x 73
65362080	80	142 x 115 x 95 x 86

### PN 10-16 DIN

Article no.	DN	Dimension (mm)
65362100	100	162 x 140 x 120 x 108
65362125	125	192 x 168 x 146 x 134
65362150	150	217 x 196 x 174 x 162
65362200	200	272 x 251 x 225 x 213
65362201	250	328 x 307 x 286 x 267

### PN 10 DIN

Article no.	DN	Dimension (mm)
65362202	300	377 x 358 x 337 x 318

### PN 16 DIN

Article no.	DN	Dimension (mm)
65368215	300	383 x 358 x 337 x 318

## Spiral wound gaskets

### PN 25-40 DIN

Article no.	DN	Dimension (mm)
65363100	100	167 x 140 x 120 x 108
65363125	125	193 x 168 x 146 x 134
65363150	150	223 x 196 x 174 x 162

### PN 25 DIN

Article no.	DN	Dimension (mm)
65364200	200	283 x 251 x 225 x 213
65364201	250	340 x 307 x 286 x 267
65364202	300	400 x 358 x 337 x 318

### PN 40 DIN

Article no.	DN	Dimension (mm)
65363200	200	290 x 251 x 225 x 213
65368080	250	352 x 307 x 286 x 267
65368081	300	417 x 358 x 337 x 318
65368024	100	167 x 140 x 120 x 108
65368022	125	193 x 168 x 146 x 134
65363500	150	223 x 196 x 174 x 162
65363600	150	223 x 196 x 174 x 162

### PN 64 DIN

Article no.	DN	Dimension (mm)
65365050	50	112 x 84 x 66 x 57
65365065	65	137 x 104 x 82 x 73
65365080	80	147 x 115 x 95 x 86
65365100	100	173 x 140 x 120 x 108
65365125	125	210 x 172 x 146 x 134
65365150	150	247 x 200 x 174 x 162
65365200	200	309 x 257 x 225 x 213
65365301	250	364 x 315 x 286 x 267
65365300	300	424 x 366 x 337 x 318

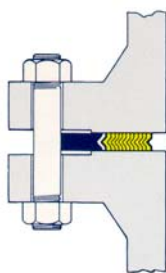
### PN 64-160 DIN

Article no.	DN	Dimension (mm)
65365010	10	56 x 36 x 24 x 18
65365015	15	61 x 40 x 28 x 22
65365020	20	74 x 47 x 33 x 27
65365025	25	82 x 54 x 40 x 34
65365032	32	90 x 65 x 49 x 43
65365040	40	102 x 70 x 54 x 48

### PN 100-160 DIN

Article no.	DN	Dimension (mm)
65366050	50	118 x 84 x 66 x 57
65366065	65	143 x 104 x 82 x 73
65366080	80	153 x 119 x 95 x 86
65366100	100	180 x 144 x 120 x 108
65366125	125	217 x 172 x 146 x 134
65366150	150	257 x 200 x 174 x 162

## Spiral wound gaskets



<b>Graphite filled Klinger Maxiflex DIN</b>	<b>Type : CR</b>
<b>Centering ring, element, DIN</b>	
<b>Suitable for:</b> a wide range of media including steam, oil, hydrocarbons and many chemicals.	
<ul style="list-style-type: none"> <li>* Medium pressure gasket designed for raised and flat faced applications.</li> <li>* Excellent tightness properties even underfluctuating loads.</li> <li>* Easy to handle and install.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>CR</b>
Element	: Grafit/316L
Centering ring	: Steel epoxy coated
Max. temperature	: 450°-600°C.
Max. pressure	: 100 bar
Suitability	: for flange acc. to DIN

### PN 10 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	10	46 x 36 x 24		40	92 x 70 x 54
	15	51 x 40 x 28		50	107 x 84 x 66
	20	61 x 47 x 33		65	127 x 102 x 82
	25	71 x 54 x 40		80	142 x 115 x 95
	32	82 x 65 x 49			

### PN 16 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	100	162 x 140 x 120		200	272 x 251 x 225
	125	192 x 168 x 146		250	328 x 307 x 286
	150	217 x 196 x 174			

### PN 10 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	300	377 x 358 x 337			

### PN 16 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	300	383 x 358 x 337			

### PN 25 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	250	340 x 307 x 286		150	223 x 196 x 174
	200	283 x 251 x 225			

### PN 25 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	200	283 x 251 x 225		300	400 x 358 x 337

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## Spiral wound gaskets

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	250	340 x 307 x 286			

### PN 40 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	200	290 x 251 x 225		300	417 x 358 x 337
	250	352 x 307 x 286			

### PN 64 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	10	56 x 36 x 24		25	82 x 54 x 40
	15	61 x 40 x 28		32	90 x 65 x 49
	20	74 x 47 x 33		40	102 x 70 x 54

### PN 64 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	50	112 x 84 x 66		150	247 x 200 x 174
	65	137 x 104 x 82		200	309 x 257 x 225
	80	147 x 115 x 95		250	364 x 315 x 286
	100	173 x 140 x 120		300	424 x 366 x 337
	125	210 x 172 x 146			

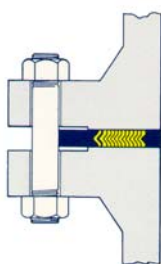
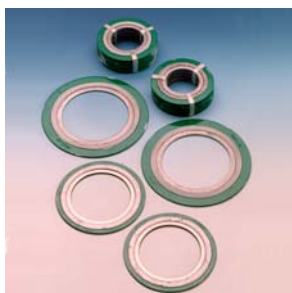
### PN 100 DIN

Article no.	DN	Dimension (mm)	Article no.	DN	Dimension (mm)
	50	118 x 84 x 66		100	180 x 144 x 120
	65	143 x 104 x 82		125	217 x 172 x 146
	80	153 x 119 x 95		150	257 x 200 x 174

Also available:

- Other materials on request.
- Other dimensions on request.

## Spiral wound gaskets



**PTFE filled Klinger Maxiflex DIN** **Type : CRIR**

**Centering ring, element, inner ring, DIN**

**Suitable for:** Applications requiring outstanding chemical resistance.

- \* Medium pressure gasket designed for raised and flat face applications. Excellent tightness properties even under fluctuating load.
- \* Easy to handle and install.
- \* Inner ring protects windings against media and adds stability at higher pressure.

### Specifications

**Type** : CRIR  
**Element** : PTFE/316L  
**Centering ring** : Steel epoxy coated  
**Inner ring** : 316L  
  
**Max. temperature** : 260°.  
**Max. pressure** : 160 bar  
  
**Suitability** : for flanges acc. to DIN

## PN 10 DIN

Article no.	DN	Dimension (mm)
	10	46 x 36 x 24 x 18
	15	51 x 40 x 28 x 22
	20	61 x 47 x 33 x 27
	25	71 x 54 x 40 x 34
	32	82 x 65 x 49 x 43
	40	92 x 70 x 54 x 48
	50	107 x 84 x 66 x 57
	65	127 x 102 x 82 x 73
	80	142 x 115 x 95 x 86
	100	162 x 140 x 120 x 108
	125	192 x 168 x 146 x 134
	150	217 x 196 x 174 x 162
	200	272 x 251 x 225 x 213
	250	327 x 307 x 286 x 267
	300	377 x 358 x 337 x 318

## PN 16 DIN

Article no.	DN	Dimension (mm)
	10	46 x 36 x 24 x 18
	15	51 x 40 x 28 x 22
	20	61 x 47 x 33 x 27
	25	71 x 54 x 40 x 34
	32	82 x 65 x 49 x 43
	40	92 x 70 x 54 x 48
	50	107 x 84 x 66 x 57
	65	127 x 102 x 82 x 73
	80	142 x 115 x 95 x 86
	100	162 x 140 x 120 x 108
	125	192 x 168 x 146 x 134

## Spiral wound gaskets

Article no.	DN	Dimension (mm)
	150	217 x 196 x 174 x 162
	200	272 x 251 x 225 x 213
	250	328 x 307 x 286 x 267
	300	383 x 358 x 337 x 318

### PN 25 DIN

Article no.	DN	Dimension (mm)
	10	46 x 36 x 24 x 18
	15	51 x 40 x 28 x 22
	20	61 x 47 x 33 x 27
	25	71 x 54 x 40 x 34
	32	82 x 65 x 49 x 43
	40	92 x 70 x 54 x 48
	50	107 x 84 x 66 x 57
	65	127 x 102 x 82 x 73
	80	142 x 115 x 95 x 86
	100	167 x 140 x 120 x 108
	125	193 x 168 x 146 x 134
	150	223 x 196 x 174 x 162
	200	283 x 251 x 225 x 213
	250	340 x 307 x 286 x 267
	300	400 x 358 x 337 x 318

### PN 40 DIN

Article no.	DN	Dimension (mm)
	10	46 x 36 x 24 x 18
	15	51 x 40 x 28 x 22
	20	61 x 47 x 33 x 27
	25	71 x 54 x 40 x 34
	32	82 x 65 x 49 x 43
	40	92 x 70 x 54 x 48
	50	107 x 84 x 66 x 57
	65	127 x 102 x 82 x 73
	80	142 x 115 x 95 x 86
	100	167 x 140 x 120 x 108
	125	193 x 168 x 146 x 134
	150	223 x 196 x 174 x 162
	200	290 x 251 x 225 x 213
	250	352 x 307 x 286 x 267
	300	417 x 358 x 337 x 318

### PN 64 DIN

Article no.	DN	Dimension (mm)
	10	56 x 36 x 24 x 18
	15	61 x 40 x 28 x 22
	20	74 x 47 x 33 x 27
	25	82 x 54 x 40 x 34
	32	90 x 65 x 49 x 43
	40	102 x 70 x 54 x 48
	50	112 x 84 x 66 x 57
	65	137 x 104 x 82 x 73
	80	147 x 115 x 95 x 86
	100	173 x 140 x 120 x 108



## Spiral wound gaskets

Article no.	DN	Dimension (mm)
	125	210 x 172 x 146 x 134
	150	247 x 200 x 174 x 162
	200	309 x 257 x 225 x 213
	250	364 x 315 x 286 x 267
	300	424 x 366 x 337 x 318

### PN 100 DIN

Article no.	DN	Dimension (mm)
	10	56 x 36 x 24 x 18
	15	61 x 40 x 28 x 22
	20	74 x 47 x 33 x 27
	25	82 x 54 x 40 x 34
	32	90 x 65 x 49 x 43
	40	102 x 70 x 54 x 48
	50	118 x 84 x 66 x 57
	65	143 x 104 x 82 x 73
	80	153 x 119 x 95 x 86
	100	180 x 144 x 120 x 108
	125	217 x 172 x 146 x 134
	150	257 x 200 x 174 x 162

### PN 160 DIN

Article no.	DN	Dimension (mm)
	10	56 x 36 x 24 x 18
	15	61 x 40 x 28 x 22
	20	74 x 47 x 33 x 27
	25	82 x 54 x 40 x 34
	32	90 x 65 x 49 x 43
	40	102 x 70 x 54 x 48
	50	118 x 84 x 66 x 57
	65	143 x 104 x 82 x 73
	80	153 x 119 x 95 x 86
	100	180 x 144 x 120 x 108
	125	217 x 172 x 146 x 134
	150	257 x 200 x 174 x 162

Also available:

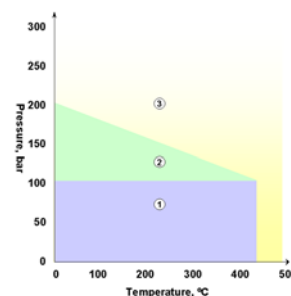
- Other materials on request.
- Other dimensions on request.
-

**Gaskets**

**Braided packing**

## Braided packing, graphite, dynamic / static

<b>Graphite</b>	<b>Type : Klinger TopLine K3222</b>
<b>Expanded graphite</b>	
<b>Suitable for:</b> A wide range of chemical media including steam, oils, grease and many acids and alkalis.	
* The cost effective, high performance valve & pump packing, offering excellent sealing and operational reliability for both Original Equipment Manufacturers, plant and marine users alike.	
<b>Specifications</b>	
<b>Type</b>	: <b>Klinger TopLine K3222</b>
<b>Material</b>	: <b>Expanded graphite</b>
Min. temp.	: -200°C
Max. temp.	: 430°C
Max. steam temp.	: 650°C
Max. static pressure	: 280 bar
Ph	: 0-14
Approvals	: Fire-safe + BAM (oxygen)
The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously. For further advice contact our technical department.	
Pressure/Temperature Graph:	
Area 1:	: Usually satisfactory to use without reference.
Area 2:	: Usually satisfactory, but suggest you refer to Klinger for advice.
Area 3:	: Caution: May be suitable but essential that you refer to Klinger for advice.



Article no.	PR. BOX		
	Dimension (mm)	Coil length (m)	Weight approx. (kg)
65538012	3,2 x 3,2	8	0,5
65532050	5,0 x 5,0	8	0,5
65532065	6,5 x 6,5	8	0,5
65532080	8,0 x 8,0	8	1,0
65532095	9,5 x 9,5	8	1,0
65532110	11,0 x 11,0	8	1,5
65532125	12,5 x 12,5	8	1,5
65532140	14,0 x 14,0	8	2,0
65532160	16,0 x 16,0	8	3,0
65532190	19,0 x 19,0	8	3,5
65538013	22,0 x 22,0	8	4,5
65532250	25,0 x 25,0	8	6,5

Also available: - Tailor made length can be supplied if larger volume is required.

## Braided packing, cotton lubricated, dynamic / static

<b>Cotton</b>	<b>Type : Klinger Traditional K2167</b>
<b>Cotton lubricated</b>	
<b>Suitable for:</b> A soft, plaited packing manufactured from cotton with lubricant for use with pumps applications commonly used in marine services.	
* A cost effective, pump packing, offering excellent sealing and operational reliability for marine users.	
<b>Specifications</b>	
<b>Type</b>	: <b>Klinger Traditional K2167</b>
<b>Material</b>	: <b>Cotton, lubricated (petroleum jelly)</b>
Min. temp.	: -10°C
Max. temp.	: 120°C
Max. rotating speed	: 10 m/sec
Max. rotating pressure	: 15 bar
Ph	: 5-9
The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously. For further advice contact our technical department.	

Article no.	PR. BOX		
	Dimension (mm)	Coil length (m)	Weight approx. (kg)
65560030	3,2 x 3,2	8	0,5
65560050	5,0 x 5,0	8	0,5
65560065	6,5 x 6,5	8	0,5
65560080	8,0 x 8,0	8	1,0
65560095	9,5 x 9,5	8	1,0
65560110	11,0 x 11,0	8	1,5
65560125	12,5 x 12,5	8	1,5
65560140	14,0 x 14,0	8	2,0
65560160	16,0 x 16,0	8	2,5
65560190	19,0 x 19,0	8	3,5
65560220	22,0 x 22,0	8	4,5
65560250	25,0 x 25,0	8	5,5

Also available: - Tailor made length can be supplied if larger volume is required.

**Gaskets**

**Glass & Milam**

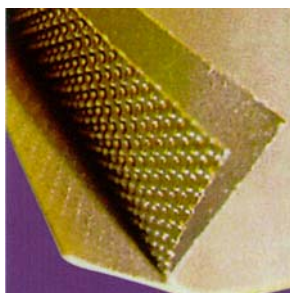
## E-glass tape

<b>Glass fibre</b>	<b>Type : Klinger 4087</b>
<b>E-glass fibre</b>	
<b>Suitable for:</b> Industrial thermal insulation.	
<ul style="list-style-type: none"> <li>* High mechanical strength.</li> <li>* Non-flammable.</li> <li>* Low thermal conductivity.</li> <li>* High heatresistance. Max. 550 degree Celsius.</li> <li>* Good electrical characteristics.</li> <li>* Good dimension stability.</li> <li>* Good chemical resistance.</li> <li>* Flexible.</li> </ul>	
<b>Specifications</b>	
<b>Type</b>	: <b>Klinger 4087</b>
<b>Material</b>	: <b>E-glass tape</b>
<b>Color</b>	: White
<b>Temperature</b>	: 550°C
<b>Density (g/m2)</b>	: 1400 (2 mm) : 2000 (3 mm)
<b>IMPA Identity No.</b>	: (811710)



Article no.	Roll length (m)	Dimension (mm)	Article no.	Roll length (m)	Dimension (mm)
65758059	50	2 x 40	65758062	50	2 x 75
65758060	50	2 x 50	65758063	50	2 x 100
65758061	50	3 x 50			

## Mica gaskets



**Mica gaskets** **Type : KLINGER Milam PSS**

**Mica with perforated 316 steel insert**

**Suitable for:** High temperature applications; exhaust- and nitrogen-oxide, exhaust manifolds, turbo chargers, heat exchangers.

\* Outsanding resistance to dry heat.

\* Available as sheets or as cut gaskets - as an option with eyelet for resistance toward the media.

### Specifications

**Type** : **KLINGER Milam PSS**

**Material** : **Mica with perforated 316 stainless steel insert.**

Max. temperature : 900°C

Max. pressure : 5 bar (see below)

Max. pressure; In flange connections where media temperature is above 100°C and a necessary bolt stress is available (min. 30 MPa), Milam can be used at a higher pressure than stated.

Article no.	Thickness (mm)	Dimension (mm)
65251013	1,30	1200 x 1000
65251020	2,00	1200 x 1000
65258039	3,20	1200 x 1000

## KLINGERmilam PSS: DIN flange gaskets 2,0 mm

Article no.	DN	PN	Dimension (mm)	Article no.	DN	PN	Dimension (mm)
<b>65258254</b>	<b>DN 15</b>	<b>PN 10-40</b>	<b>50 x 22</b>	<b>65258254</b>	<b>DN 15</b>	<b>PN 10-40</b>	<b>50 x 22</b>
65258359	DN 20	PN 10-40	60 x 28	65258364	DN 125	PN 25-40	195 x 141
65258346	DN 25	PN 10-40	70 x 35	65258365	DN 150	PN 10-16	218 x 169
65258360	DN 32	PN 10-40	82 x 43	65258366	DN 150	PN 25-40	225 x 169
65258361	DN 40	PN 10-40	92 x 49	65258237	DN 200	PN 10-16	273 x 220
65258169	DN 50	PN 10-40	107 x 61	65258239	DN 200	PN 25	285 x 220
65258253	DN 65	PN 10-40	127 x 77	65258367	DN 200	PN 40	292 x 220
65258362	DN 80	PN 10-40	142 x 90	65258368	DN 250	PN 10	328 x 274
65258135	DN 100	PN 10-16	162 x 115	65258238	DN 250	PN 16	330 x 274
65258363	DN 100	PN 25-40	168 x 115	65258250	DN 250	PN 25	342 x 274
65258236	DN 125	PN 10-16	192 x 141	65258195	DN 250	PN 40	353 x 274