

Задвижки высокого давления PD 16-63, DN 50-600

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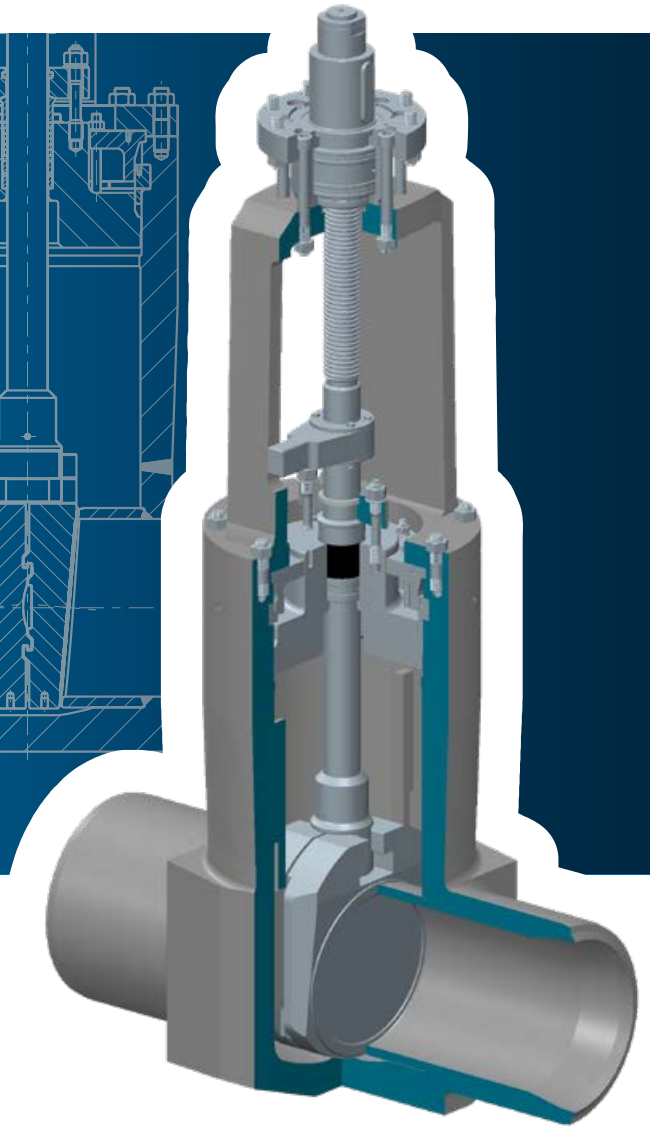
эл.почта: paw@nt-rt.ru || сайт: <https://persta.nt-rt.ru/>

ASME

version
available

HIGH PRESSURE GATE VALVE

DSK 16-63 700 JT PD 16-63 DN 50-600



Design highlights

- High bonnet
- Disc and body seat generally integral and armoured in Stellite
- Non-rotating stem with external stem thread and roll-polished shaft
- Stem with external anti-twist device
- Discs and stem connected by hammer head
- Two piece gland
- Yoke sleeve supported below and above with axial needle bearing

Advantages

- Avoids impermissible temperatures in the bearing area (lubricity of grease)
- Optimum guide pairing with minimum wear
- Minimum packing wear on polished surfaces
- Avoids deflection of torsion into the disc fittings
- Discs are able to move within the guide play, preventing bending strain on the stem
- Avoids stem damage due to uneven tightening of packing bolts
- Reduced force needed to open and close the valve

Version

- Forged body
- Flexible wedge version
- Welded seat rings and guide rails
- External stem thread
- Position indicator / anti-twist device
- Pressure sealing bonnet as per VGB guidelines
- Needle bearing yoke sleeve
- Suitable for mounting actuators

Materials

- 1.0460
 - 1.4901
 - 1.4903
 - 1.5415
 - 1.6368
 - 1.7335
 - 1.7383
- Other materials available on request.

Operating data

- Operating pressure up to 680 bar
 - Operating temperature up to 650 °C
- Versions with higher specifications available on request.

Flow medium

Depending on the choice of materials, the gate valves can be used for water, steam, oil or other non-aggressive media.

Applications

In chemical, industrial and power plants, and in shipbuilding.

Area of application

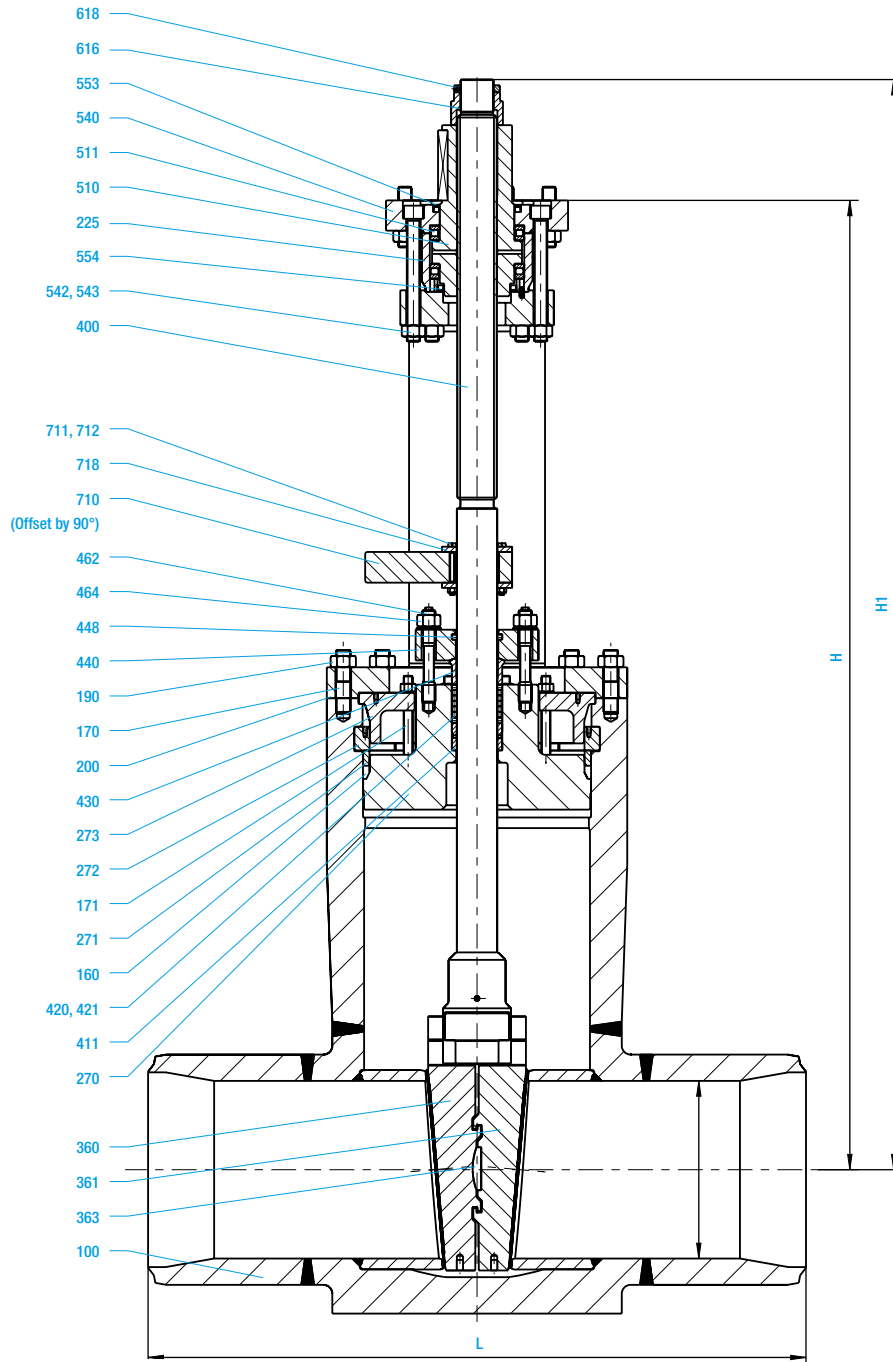
Permissible operating pressure [bar(g)] at calculation temperature [°C] ¹⁾

Material	PD	20	120	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650
1.0460	16	160	160	160	151	132	118	99	80	76	73	69	65	61	54	45	37																	
	25	250	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																	
	32	320	320	320	302	264	236	198	160	153	145	138	130	123	109	91	75																	
	40	400	400	400	377	330	295	248	200	191	182	172	163	153	136	113	93																	
1.5415	16	192	192	192	179	165	141	137	132	131	130	129	128	127	126	125	124	109	85	64	51	41												
	25	300	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64												
	32	385	385	385	358	330	283	273	264	262	260	258	256	255	253	251	249	217	170	129	102	81												
	40	480	480	480	448	413	354	342	330	328	325	323	321	318	316	314	311	272	212	161	127	102												
1.7335	16	192	192	192	192	189	174	165	156	154	152	150	148	146	145	144	143	142	129	109	86	70	57	44	36	29								
	25	300	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46								
	32	385	385	385	385	377	349	330	311	307	304	300	296	292	290	289	287	285	258	217	172	140	113	88	72	59								
	40	481	481	481	481	471	436	413	389	384	380	375	370	365	363	364	358	356	323	272	215	175	141	110	91	74								
1.7383 ²⁾	16	192	192	192	192	192	189	174	165	163	161	159	157	156	154	152	150	143	127	111	97	85	74	64	55	48	41	36	32					
	25	300	300	300	300	300	294	272	258	255	252	249	246	243	240	237	234	224	199	174	152	132	115	100	85	75	65	56	49					
	32	384	384	384	384	384	377	349	330	326	322	319	315	311	307	304	300	287	255	223	194	170	147	128	109	96	83	72	63					
	40	480	480	480	480	480	471	436	413	408	403	398	384	389	384	379	375	358	318	278	243	212	184	160	137	120	104	90	79					
1.6368	16	263	263	263	263	263	263	263	263																									
	25	410	410	410	410	410	410	410	410																									
	32	525	525	525	525	525	525	525	525																									
	40	657	657	657	657	627	657	657	657																									
1.4903 ²⁾	16	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	268	245	239	221	203	186	169	153	137	123	108	96	85	74	64	55	48	41
	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	418	383	372	344	316	290	263	238	213	191	169	150	132	115	100	85	75	65
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	536	490	477	441	405	371	338	305	273	245	217	192	170	147	128	109	96	83
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	669	613	596	552	507	464	422	382	342	306	271	240	212	184	160	137	120	104
1.4901 ²⁾	16	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	271	254	237	221	205	190	176	161	147	133	119	106	94	81	70	61	52
	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	423	397	370	345	320	297	275	252	230	208	186	166	147	127	110	95	82
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	542	508	474	442	410	380	352	323	295	267	239	212	188	163	141	122	105
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	677	635	592	552	512	475	440	404	369	334	298	265	235	204	176	152	131

1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.

2) For temperatures > 570 °C, stem material 1.4980, seat armoured with Stellite, and high-temperature packing.

Design acc. to design conditions, PD 63 available on request.



Materials

Item	Designation	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)	1.6368 (46)	1.4903 (63)	1.4901 (66)
100	Body	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
	Body seat	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
160	Gasket	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
170	Bolt	1.7709	1.7709	1.7709	1.7709	1.7709	1.4923	1.4980
171	Clamping screw	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218	1.7218	1.4923	1.4980
200	Bonnet	1.5415	1.5415	1.5415	1.5415	1.5415	1.5415	1.5415
225	Yoke head	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460
270	Cover	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
271	Support ring	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
272	Segment ring	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
273	Support cap	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
360	Disc	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
	Disc seat	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
363	Pressure piece	1.4122	1.4122	1.4122	1.4122	1.4122	1.4122	1.4122
400	Stem	1.4921	1.4021	1.4923	1.4923	1.4923	1.4923	1.4980
411	Guide sleeve	1.8507	1.8507	1.8507	1.8507	1.8507	1.8507	1.8507
420	Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
421	Chamber ring	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
430	Gland	1.5415	1.5415	1.5415	1.5415	1.5415	1.5415	1.5415
440	Gland flange	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4903
448	Packing ring	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
462	Bolt	1.7709	1.7709	1.7709	1.7709	1.4923	1.4923	1.4980
464	Hexagonal nut	1.7218	1.7218	1.7218	1.7218	1.4923	1.4923	1.4980
510	Yoke sleeve	CW 713 R	CW 713 R	CW 713 R	CW 713 R	CW 713 R	CW 713 R	CW 713 R
511	Anti-friction bearing	WLSt	WLSt	WLSt	WLSt	WLSt	WLSt	WLSt
540	Flange	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425
542	Cylinder head bolt	8.8	8.8	8.8	8.8	8.8	8.8	8.8
543	Hexagonal nut	8	8	8	8	8	8	8
553 / 554	Shaft seal	NBR	NBR	NBR	NBR	NBR	NBR	NBR
616	Lift stop	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460
618	Hexagonal pipe nut	St	St	St	St	St	St	St
710	Anti-rotation device	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425
711	Hexagonal bolt	8.8	8.8	8.8	8.8	8.8	8.8	8.8
712	Hexagonal nut	8	8	8	8	8	8	8
718	Washer	1.0038	1.0038	1.0038	1.0038	1.0038	1.0038	1.0038

Spare parts

Dimensions/mm, weights/kg and Kvs value m³/h

DN	DSK 16						DSK 25						DSK 32						DSK 40			DSK 63					Kvs [m³/h]
	L	H	H1	Stroke length	Rev/ stroke	kg	L	H	H1	Stroke length	Rev/ stroke	kg	L	H	H1	Stroke length	Rev/ stroke	kg	H	Stroke length	kg	H	Stroke length	p	Rev/ stroke	kg	
65 - 200	Version DSK26.25						Version DSK26.25						Version DSK26.40														4221
225													1050	1720	1925	240	23	1980									
250													1150	1980	2225	270	26	2300									
300													1350	2195	2450	305	26	3600									
350	1200	2140	2400	360	36	2230	1550	2280	2550	350	30	3700	1550	2400	2700	350	32	5840									
400	1350	2320	2600	400	40	3000	1750	2565	2875	410	37	5500	1950	2700	3025	410	37	8200									13340
450	1500	2485	2850	456	38	3935	1950	2850	3200	460	41	7600															16884
500	1650	2850	3200	495	42	5400																					20844
600	1650	2900	3250	588	49	6120																					30015

Over pressure safety device

If a gate valve that is closed and is filled with a medium (e.g. water) is heated up (Fig. 1), an impermissibly high pressure may form in the body. The possible pressure increase depends on the volume of the liquid and vaporous phases and the temperature increase of the medium. The trapped over pressure in the body can make it significantly harder for the gate valve to actuate. In addition, the over pressure can cause the pressure-bearing components to fail.

Fig. 2 shows the pressure increase in the body when water is trapped, depending on the volume share and temperature change.

Note: If the valve's installation method or mode of operation make these impermissible pressures possible, the system planner or operating company must provide a suitable over pressure safety device.

A simple and effective over pressure safety device involves providing a bore in the disc or in the seat

on the pressurised side (Fig. 4). The bore prevents the pressure in the body from exceeding the operating pressure; however, this means that the gate valve can only be used one-directional. In this case, the flow direction is indicated by an arrow on the body. Another option is an equalizing pipe from the 3rd chamber (Fig. 5) to the inlet.

If an external over pressure safety device is used, the body must be ordered with the corresponding closed stud (see Figs. 1 + 3).

Fig. 1:

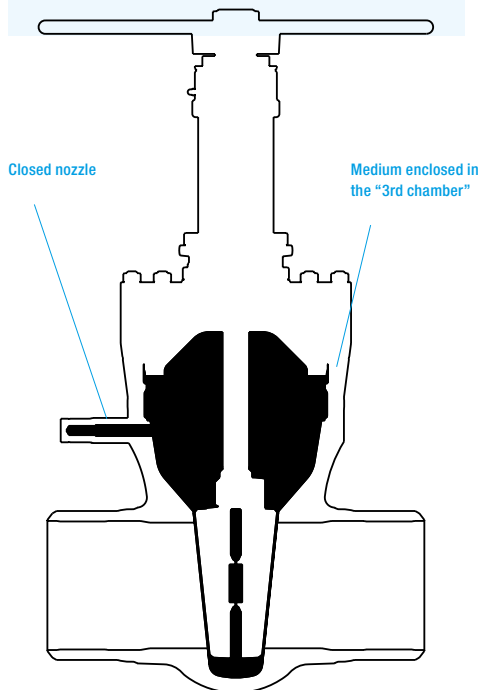


Fig. 2:

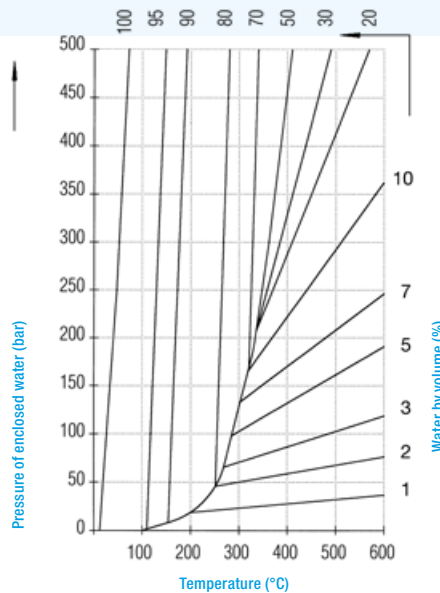


Fig. 3: Version with safety valve

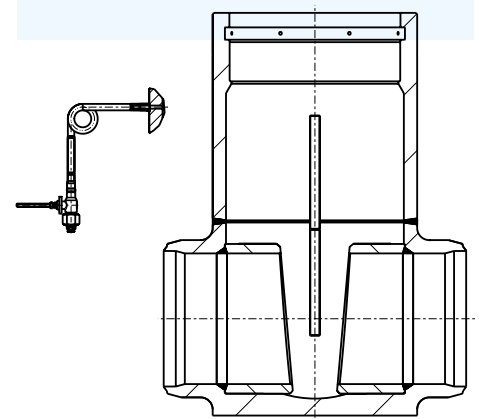


Fig. 4: Version with bore in disc or seat ring

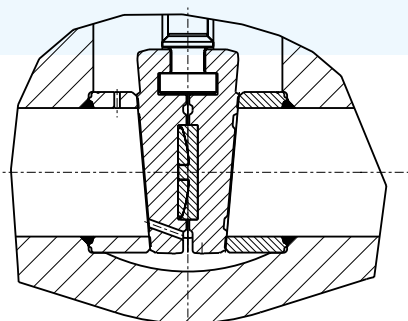


Fig. 5: Equalizing pipe from 3rd chamber to pressurised side

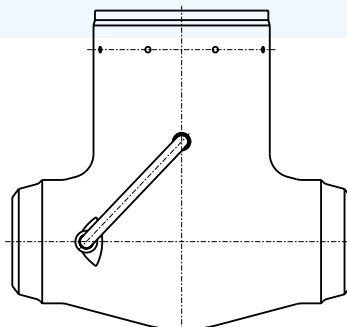
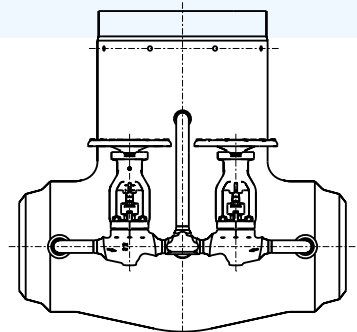
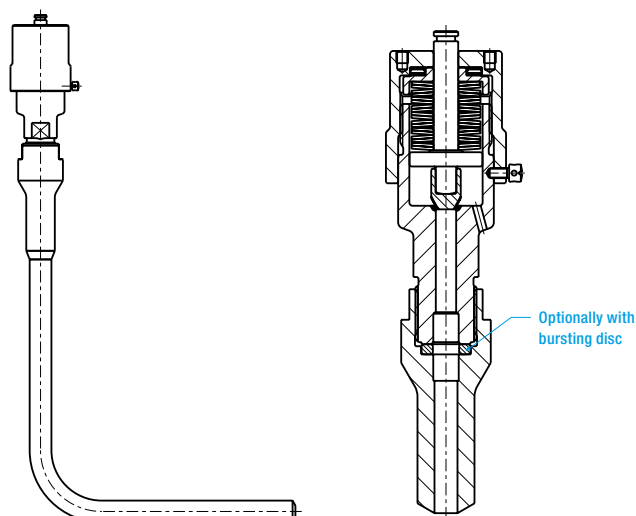


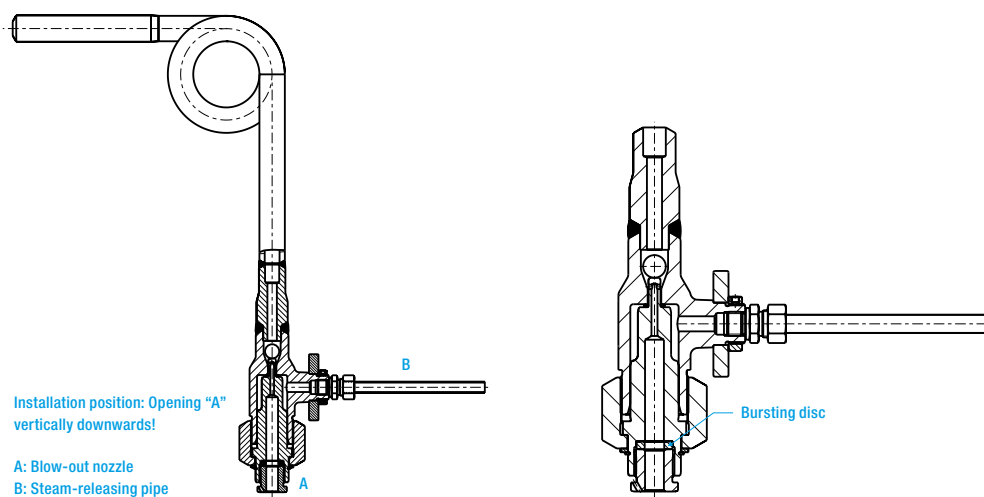
Fig. 6: Equalizing bypass with globe valves from 3rd chamber



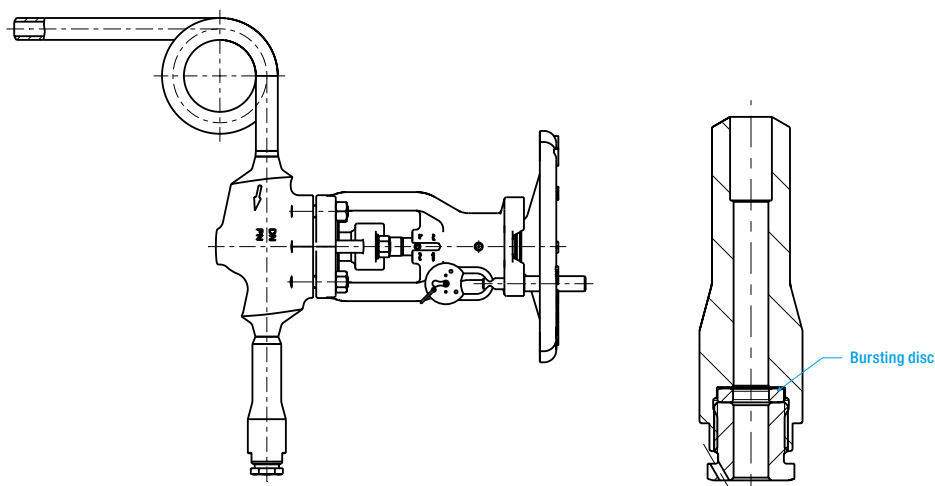
Assembly diagram SV 97



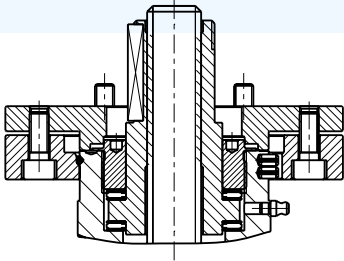
Assembly diagram SV 98



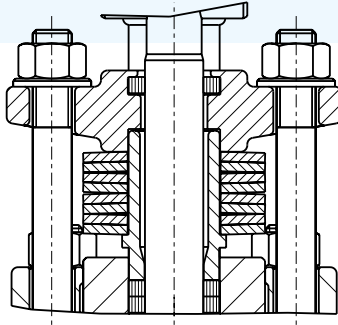
Assembly diagram SV 99 with lockable high pressure globe valve



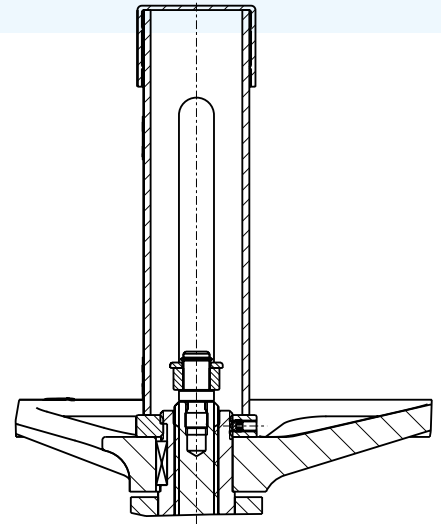
Universal valve head for mounting actuators/gear boxes



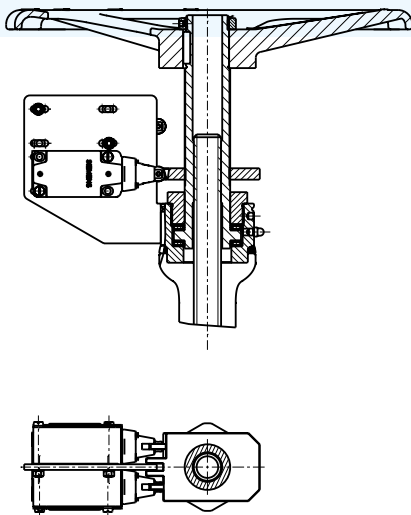
Stuffing box with central disc spring contact pressure



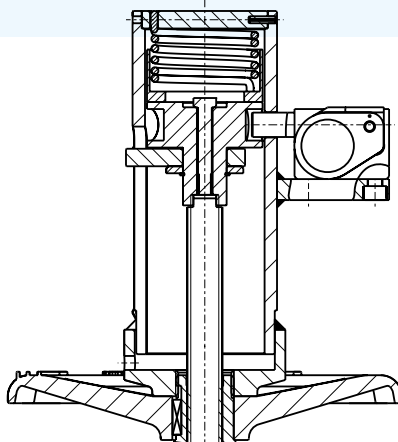
Position indicator/stem protection tube



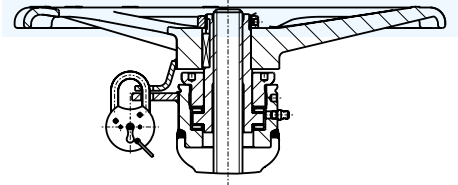
Limit switches



PERLOC locking system



Ped lock



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