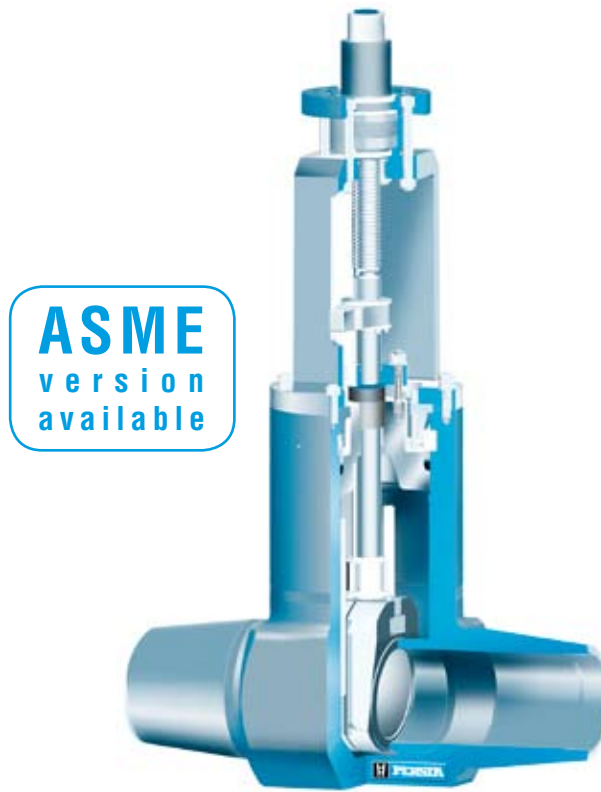


▪ Gate valves ▪ High pressure gate valve DSK 16-63 ▪ 700 JT ▪ PD 16-63 ▪ DN 50-600



ASME
version
available

		Range of application																																					
		Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																					
BW-Version	Material	PD	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	151	132	118	99	80	76	73	69	65	61	54	45	37																							
	25	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																							
	32	320	320	302	264	236	198	160	153	145	138	130	123	109	91	75																							
	40	400	400	377	330	295	248	200	191	182	172	163	153	136	113	93																							
1.5415	16	192	192	179	165	141	137	132	131	130	129	128	127	126	125	124	109	85	64	51	41																		
	25	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64																		
	32	385	385	358	330	283	273	264	262	260	258	256	255	253	251	249	217	170	129	102	81																		
	40	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	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	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	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	471	436	413	389	384	380	375	370	365	363	364	358	356	323	272	215	175	141	110	91	74														
1.7383	16	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	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	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	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	263	257	231	198	165	131	98	65																						
	25	410	410	410	410	410	410	410	410	410	402	360	309	257	205	153	102																						
	32	525	525	525	525	525	525	525	525	525	515	482	396	330	262	196	130																						
	40	657	657	657	627	657	657	657	657	657	657	643	577	495	412	328	245	163																					
1.4903	16	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	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	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	669	613	596	552	507	464	422	382	342	306	271	240	212	184	160	137	120	104						
1.4901	16	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	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations. Design according to working data PD 63 on request

■ **Gate valves** ■ High pressure gate valve DSK 16-63 ■ 700 JT ■ PD 16-63 ■ DN 50-600

Standard features

- Valve body made of forged steel
- Split disc type
- Welded seatrings and guide bars
- Outside screw and yoke
- Position indicator / non-rotating device
- Pressure sealing bonnet acc. VGB-guidelines
- Yoke sleeve supported by needle bearing
- Possibility to add an actuator

Pressure and temperature ratings

- Pressure rating up to 680 bar
- Temperature rating up to 650 °C
- Higher temperature ratings on request

Materials

- 1.0460
- 1.4901
- 1.4903
- 1.5415
- 1.7335
- 1.7383
- 1.6368

Further materials on request.

Media

Depending on the material the gate valves are suitable for water, gas, oil and other non aggressive media

Fields of application

High temperature steam and water, refining (catalytic reformers and hydrocrackers), petrochemical and chemical industries

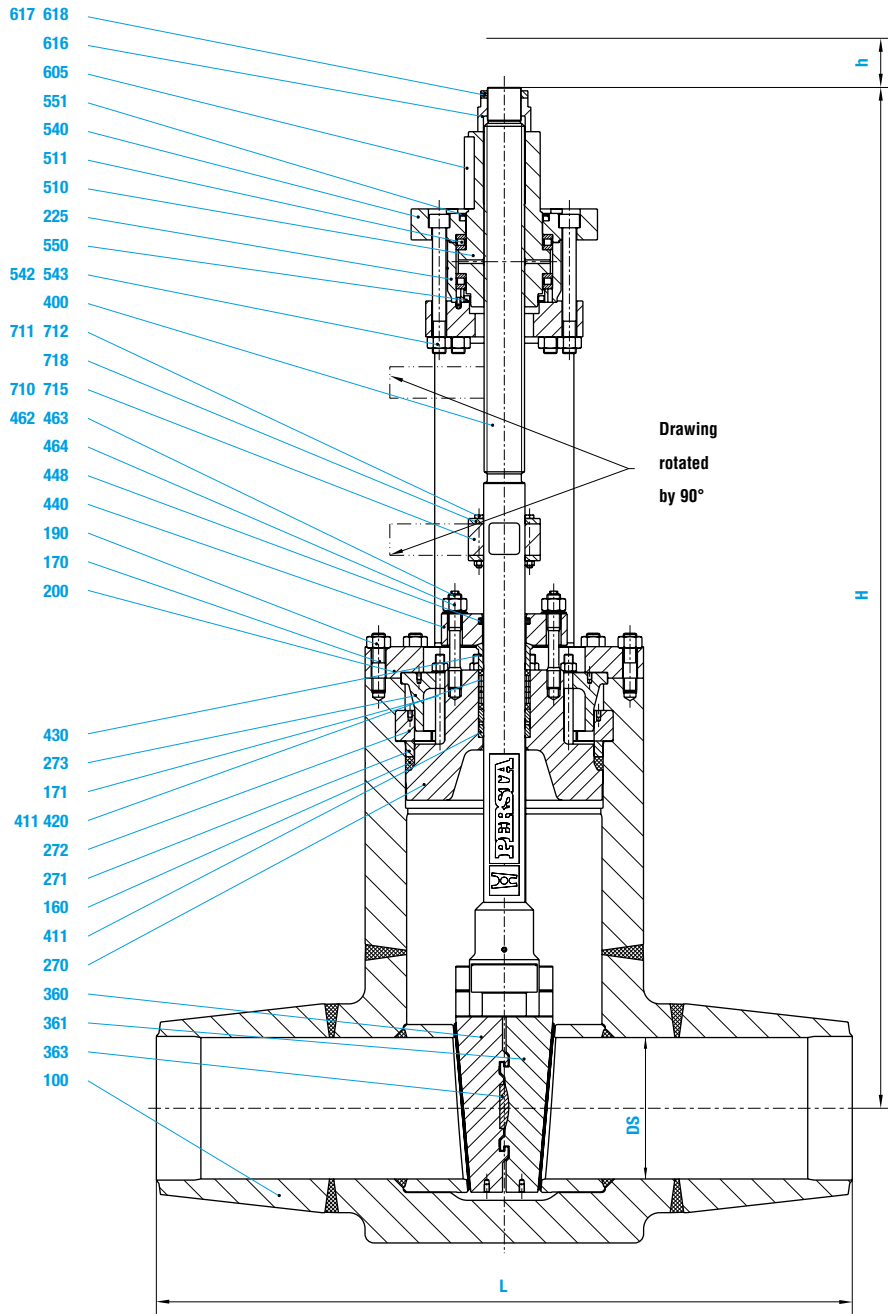
Design Highlights

- Long bonnet
- Seats and discs faced with stellite
- Non-turning, rising stem and burnished stem
- Outside located switch bracket
- Hammer head connection between shut-off device and stem
- Gland flange and gland ring in two separate pieces
- Yoke sleeve supported by needle bearing

Benefits

- To reduce temperatures
- Best possible sliding performance and minimum wear
- Minimum wear to the gland packing
- Protects against torsion
- Wedge are able to align parallel to the axis of the pipe shut-off device and stem within the guiding groove. This protects the stem against bending moments
- Damage to the stem by irregular tightening of gland bolts is avoided
- Minimize the expenditure of effort when operating valve

▪ Gate valves ▪ High pressure gate valve DSK 16-63 ▪ 700 JT ▪ PD 16-63 ▪ DN 50-600



■ Gate valves ■ High pressure gate valve DSK 16-63 ■ 700 JT ■ PD 16-63 ■ DN 50-600

Materials								
Pos.	Component	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)	1.6368 (46)	1.4903 (63)	1.4901 (66)
100	Body welded on with	1.0460 Stellite	1.5415 Stellite	1.7335 Stellite	1.7383 Stellite	1.6368 Stellite	1.4903 Stellite	1.4901 Stellite
160	▶ Gasket	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
170	Stud	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709
171	Stud	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	1.7218	1.7218
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	Ring	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
272	Segmentring	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
273	Cover	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
360 / 361	▶ Disc welded on with	1.0460 Stellite	1.5415 Stellite	1.7335 Stellite	1.7383 Stellite	1.6368 Stellite	1.4903 Stellite	1.4901 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 bushing	1.8507	1.8507	1.8507	1.8507	1.8507	1.8507	1.8507
420	▶ Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
421	▶ Ring	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
430	Gland ring	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	▶ Dirt scraper	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
462	Stud	1.7709	1.7709	1.7709	1.7709	1.7709	1.4923	1.4980
463	Washer	St	St	St	St	St	St	St
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	▶ Bearing	WLS	WLS	WLS	WLS	WLS	WLS	WLS
540	Flange	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425
542	Headcap screw	8.8	8.8	8.8	8.8	8.8	8.8	8.8
543	Hexagonal nut	8	8	8	8	8	8	8
550 / 551	▶ Gasket	NBR	NBR	NBR	NBR	NBR	NBR	NBR
605	Key	1.0060	1.0060	1.0060	1.0060	1.0060	1.0060	1.0060
616	Screw ring	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460
617	Screw pin	45H	45H	45H	45H	45H	45H	45H
618	Hexagonal pipe nut	St	St	St	St	St	St	St
710	Switch bracket	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425
711	Hexagonal screw	8.8	8.8	8.8	8.8	8.8	8.8	8.8
712	Hexagonal nut	8	8	8	8	8	8	8
715	Key	1.4021	1.4021	1.4021	1.4021	1.4021	1.4021	1.4021
718	Washer	1.0038	1.0038	1.0038	1.0038	1.0038	1.0038	1.0038

▶ Spare parts

Dimensions/mm, Weights/kg and Kvs-values																							
DN	DS	DSK 16				DSK 25				DSK 32				DSK 40				DSK 63				KV (m3/h)	
		L	H	Stroke/h	kg	L	H	Stroke/h	kg	L	H	Stroke/h	kg	L	H	Stroke/h	kg	L	H	Stroke/h	kg		
65 - 200																							
225	202,5									Version DSK 26.40			Version DSK 26.40										4221
250 / 225	202,5									1050	1720	240	1980										
250	225,0									1150	1720	240											
300 / 250	225,0									1150	1980	270	2300										5211
300	270,0									1350	1980	270											
350 / 300	270,0									1350	2195	305	3600										7504
350	315,0									1550	2195	305											
400 / 350	315,0	1200	2140	350	2230	1550	2280	350	3750	1550	2400	350	5840										10214
400	360,0	1350	2140	350		1750	2280	350		1750	2400	350											
400	360,0	1350	2320	400	3000	1750	2565	410	5500	1750	2700	410	8200										13340
450 / 400	360,0	1500	2320	400		1950	2565	410	7700	1950	2700	410											
450	405,0	1500	2485	445	3935	1950	2850	460															16884
500 / 450	405,0	1650	2485	445		2150	2850	460															
500	450,0	1650	2850	495	5400																		20844
600 / 500	540,0																						
600	540,0																						30015