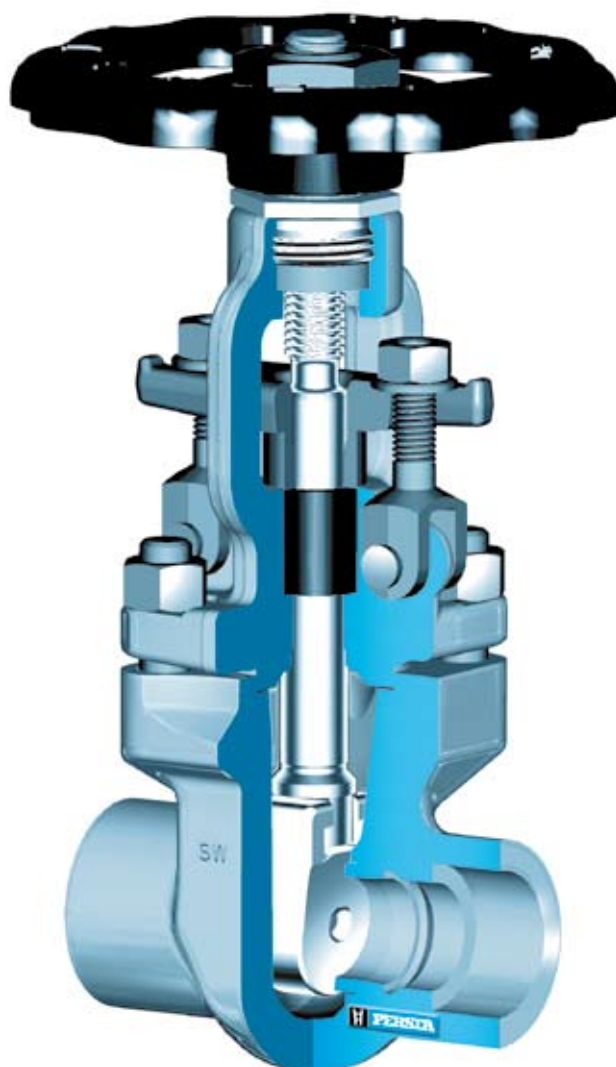


■ Gate valves ■ Small gate valve ■ 808 GJ ■ PN 10-100 ■ DN 10-40



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-200	-60	-10	20	120	150	200	250	300	350	400	450	475	480	500	510	520	530	540	550
1.0460	10-40			40	40	40	37	35	32	28	24	21	13	8	7						
	63			63	63	63	56	50	45	40	36	32	21	13	12						
	100			100	100	100	90	80	70	60	56	50	34	21	19						
1.7335	10-40			40	40	40	40	40	40	40	38	36	34	32	31	29	24	19	15	12	9
	63			63	63	63	63	63	63	63	61	58	56	52	51	47	40	32	25	20	15
	100			100	100	100	100	100	100	100	95	91	87	81	79	74	62	49	38	30	23
1.0566 ²⁾	10-40			40	40	40	37	35	34	28											
	63			63	63	63	58	50	45	40											
	100			100	100	100	92	80	70	60											
1.4571	10-40	40	40	40	40	40	38	35	33	31	30	29									
	63	63	63	63	63	63	57	50	47	44	42	40									
	100	100	100	100	100	100	90	80	75	70	65	60									

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) At temperature > 50 °C only applicable for short-time service.

■ **Gate valves** ■ **Small gate valve** ■ **808 GJ** ■ **PN 10-100** ■ **DN 10-40**

Standard features

- Die-forged body and bonnet
- Full bore
- Wedge
- Outside screw and yoke
- Non-turning rising stem
- Available with flange, socket and butt-weld ends

Pressure and temperature ratings

- Pressure rating up to 100 bar
- Temperature rating up to 550 °C

Materials

- 1.0460
- 1.7335
- 1.0566
- 1.4571

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

Chemical industries, power plants, ship building and other

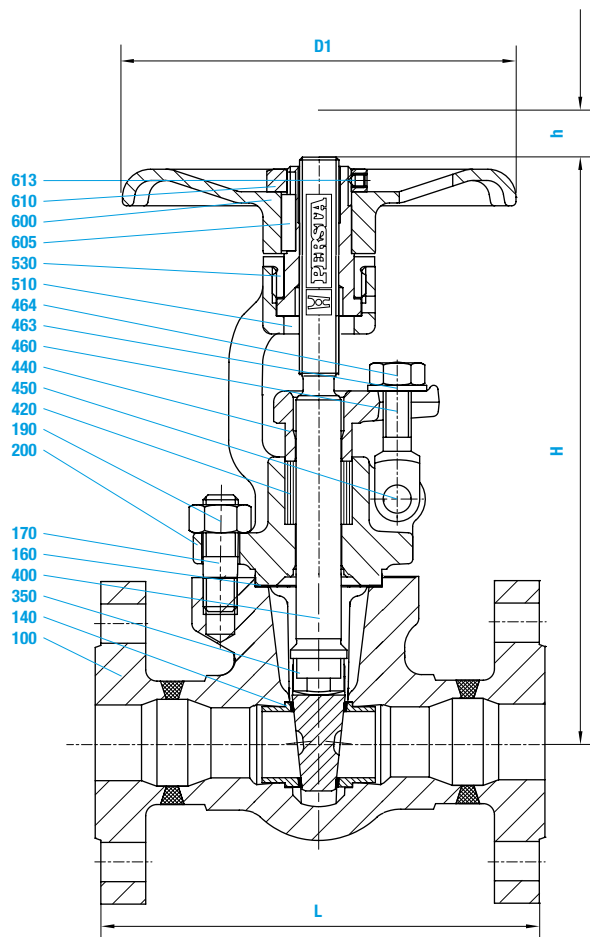
Design Highlights

- Die-forged body and bonnet
- Wedge made of stellite
- Gasket, male and female face
- Full bore
- Non-turning, rising stem

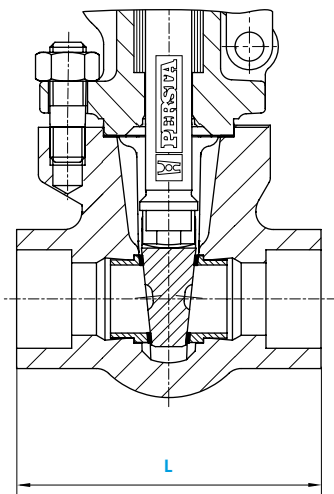
Benefits

- Free from porosity and shrink holes
- Extremely resistant to wear
- Blow out protection
- No reduction in seat area
- Minimal wear of the gland-packing

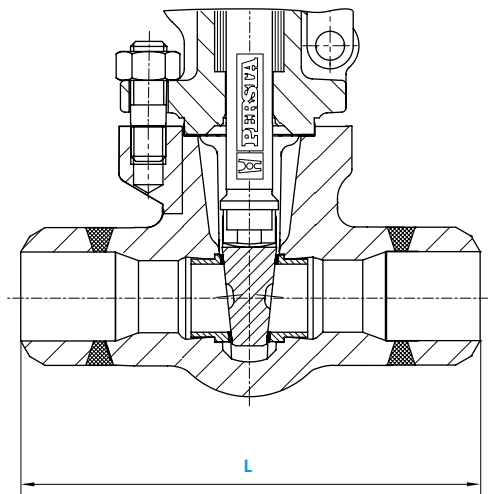
Small gate valve FL-version



Socket welding version



BW-version

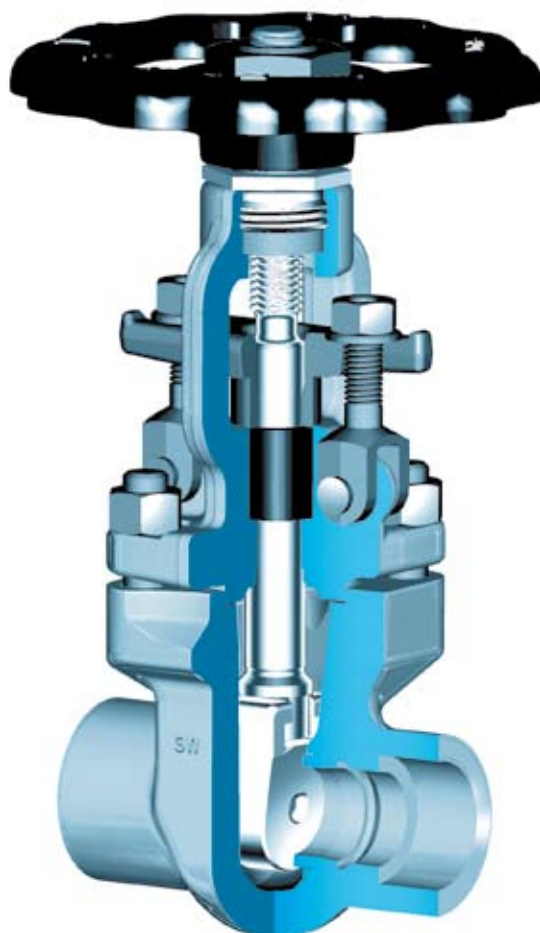


■ Gate valves ■ Small gate valve ■ 808 GJ ■ PN 10-100 ■ DN 10-40

Materials					
Pos.	Component	1.0460 (21)	1.7335 (44)	1.0566 (25)	1.4571 (87)
100	Body	1.0460	1.7335	1.0566	1.4571
140	Seat ring	1.4571	1.4571 ¹⁾	1.4571	1.4571
160	▶ Gasket	Graphite	Graphite	Graphite	Graphite
170	Stud	1.7709	1.4923	A4-70	A4-70
190	Hexagonal nut	1.7218	1.4923	A4-70	A4-70
200	Bonnet	1.0460	1.7335	1.0566	1.4571
350	Wedge	1.4021	2.5788	2.5788	2.5788
400	▶ Stem	1.4021	1.4021	1.4571	1.4571
420	▶ Packing	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.0460	1.0460	1.4571	1.4571
450	Rivet	1.1181	1.1181	A4-50	A4-50
460	Gland bolt	1.1181	1.1181	1.4571	1.4571
463	Washer	St	St	A4-50	A4-50
464	Hexagonal nut	1.1181	1.1181	A4-70	A4-70
510	▶ Yoke sleeve	1.0718	1.0718	1.0718	1.0718
530	Yoke nut	1.0718	1.0718	1.0718	1.0718
600	Handwheel	0.7040	0.7040	0.7040	0.7040
605	Key	1.0060	1.0060	1.0060	1.0060
610	Hexagonal nut	St	St	St	St
613	Screw pin	45H	45H	45H	45H
▶ Spare parts					
1) Welded on with Stellite					

Dimensions/mm and Kvs-values								
PN	DN	FL L	BW L	SM L	H	Stroke	D1	Kvs (m ³ /h)
10-100	10			105	205	27	140	
	15	130	130	105	205	27	140	14,2
	20	150	150	105	205	27	140	29,2
	25	160	160	105	205	27	140	39,5
	32	180	180	115	228	35	180	74,7
	40	240	240	115	228	35	180	95,3

▪ **Gate valves** ▪ VALTRA Small gate valve ▪ 800/808 GJ ▪ Class 800 (PN 10-40) ▪ NPS 1½ - 2 (DN 15-50)



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾													
Material	PN	-10	20	100	150	200	250	300	350	400	450	475	480
1.0460	10-40	40	40	40	37	35	32	28	24	21	13	8	7

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

		Admissible operating pressure [bar] at design temperature [°C] ¹⁾														
Material		-29	38	93,5	149	204,5	260	315,5	343,5	371	399	426,5	454,5	482	510	538
ASTM A 105	Class 800	136,2	136,2	124,1	120,7	116,6	110,0	100,7	98,6	97,9	92,7	75,9	49,3	31,7	19,0	9,7

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ **Gate valves** ■ VALTRA Small gate valve ■ 800/808 GJ ■ Class 800 (PN 10-40) ■ NPS 1/2 - 2 (DN 15-50)

Standard features

- Die-forged body and bonnet
- Full bore
- Wedge
- Outside screw and yoke
- Non-turning rising stem
- Available with flange, socket and butt weld ends

Pressure and temperature ratings

- Pressure rating up to 136,2 bar
- Temperature rating from -10 °C up to 538 °C

Materials

- 1.0460
- ASTM A 105

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

Chemical industries, power plants, ship building and other

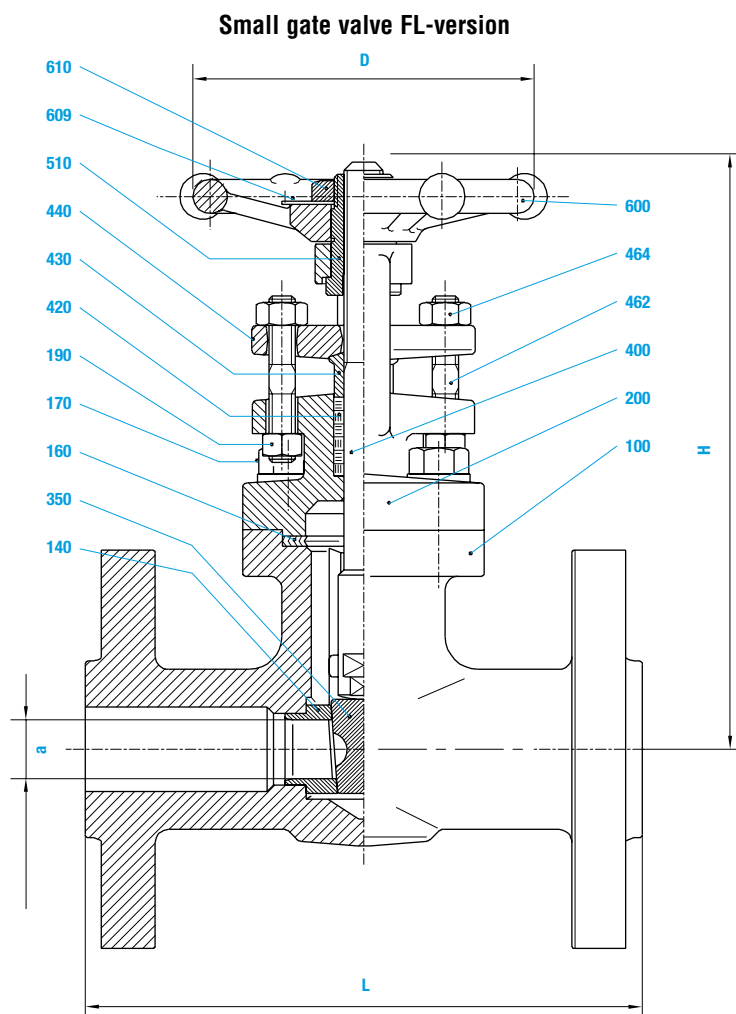
Design Highlights

- Die-forged body and bonnet
- Wedge made of stellite
- Gasket, male and female face
- Full bore
- Non-turning, rising stem

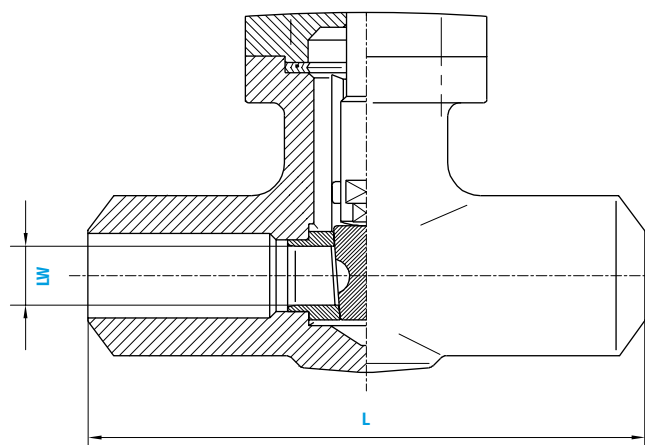
Benefits

- Free from porosity and shrink holes
- Extremely resistant to wear
- Blow out protection
- No reduction in seat area
- Minimal wear of the gland-packing

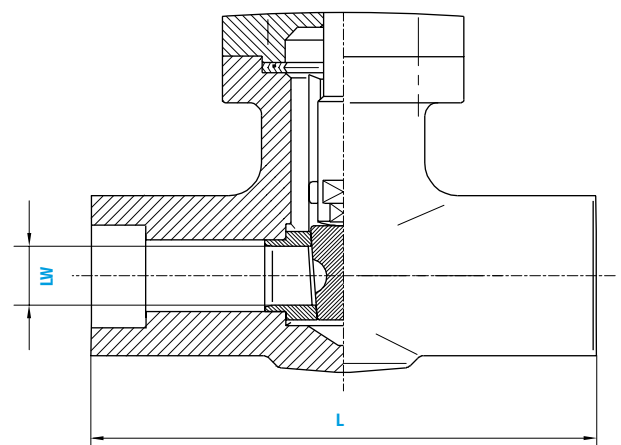
■ Gate valves ■ VALTRA Small gate valve ■ 800/808 GJ ■ Class 800 (PN 10-40) ■ NPS 1½ - 2 (DN 15-50)



BW-version



Socket welding version



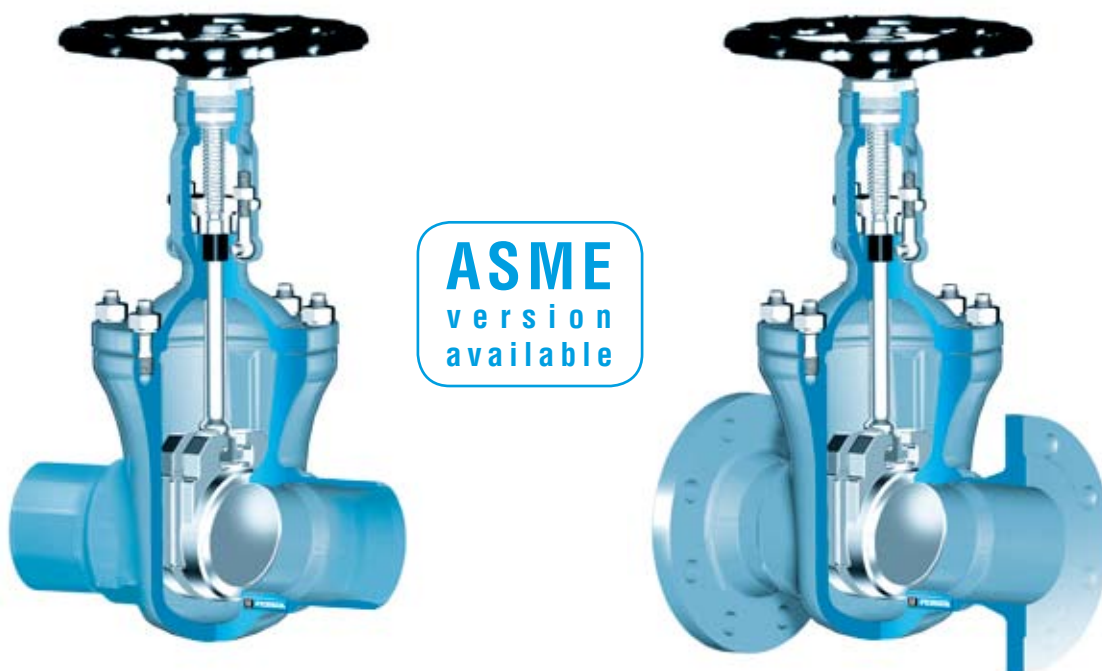
■ **Gate valves** ■ **VALTRA Small gate valve** ■ **800/808 GJ** ■ **Class 800 (PN 10-40)** ■ **NPS 1/2 - 2 (DN 15-50)**

Materials			
Pos.	Component	1.0460 (21) FL	ASTM A 105 (B1) BW / SM
100	Body	1.0460	ASTM A 105
140	Seat ring	ASTM A 276 type 410	ASTM A 276 type 410
160	▶ Gasket	Spiral-Grafit	Spiral-Grafit
170	Stud	AISI 410	AISI 410
190	Hexagonal nut	ASTM A 194 2H	ASTM A 194 2H
200	Bonnet	1.0460	ASTM A 105
350	Wedge	ASTM A 182 F6	ASTM A 182 F6
400	▶ Stem	ASTM A 276 type 410	ASTM A 276 type 410
420	▶ Packing	Graphite	Graphite
430	Gland ring	ASTM A 276 type 410	ASTM A 276 type 410
440	Gland flange	ASTM A 105	ASTM A 105
462	Stud	AISI 410	AISI 410
464	Hexagonal nut	ASTM A 194 2H	ASTM A 194 2H
510	▶ Yoke sleeve	ASTM A 582 type 416	ASTM A 582 type 416
600	Handwheel	St	St
609	Washer	St	St
610	Hexagonal nut	St	St
▶ Spare parts			

Dimensions/mm				
808 GJ NPS	L	H	D	LW
1/2	90	152	90	14,0
3/4	110	182	110	19,0
1	127	214	110	24,0
1 1/4	127	247	130	30,0
1 1/2	127	270	130	37,0
2	150	333	180	48,0
800 GJ NPS	L	H	D	LW
1/2	80	145	70	10,0
3/4	90	152	90	14,0
1	110	182	110	19,0
1 1/4	127	214	110	24,0
1 1/2	127	247	130	30,0
2	127	270	130	37,0
808 GJ DN	L	H	D	PN 10-40 a
15	130	152	90	14,0
20	150	182	110	18,0
25	160	214	110	24,0
40	240	270	130	36,5
50	250	333	180	48,0

Weights/kg and Kvs-values		
808 GJ NPS	SM	Kvs (m3/h)
1/2	2,2	14,2
3/4	3,5	25,2
1	5,0	37,2
1 1/4	6,5	61,0
1 1/2	8,5	95,3
2	17,0	149,0
800 GJ NPS	SM	
1/2	1,6	7,2
3/4	2,2	14,3
1	3,5	26,3
1 1/4	5,0	40,9
1 1/2	6,5	63,9
2	8,5	100,0
808 GJ DN	FL	
15	4,5	14,2
20	6,5	25,2
25	7,9	37,2
40	13,0	95,3
50	24,5	149,0

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA) ■ PN 10-40 ■ PN 10-100 ■ DN 50-150



Pressure rate table acc. DIN 2401

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-60	-10	20	120	150	200	250	300	350	400	425	450	475	500	510	520	530	540	550
1.0619	16	16,0	16,0	16,0	15,0	14,0	13,0	11,0	10,0	8,0										
	25	25,0	25,0	25,0	23,0	22,0	20,0	17,0	16,0	13,0										
	40	40,0	40,0	40,0	37,0	35,0	32,0	28,0	24,0	21,0										
	10 ²⁾	10,0	10,0	10,0	9,6	8,8	8,1	6,9	6,3	5,0										
1.0460	16	16,0	16,0	16,0	15,3	14,0	13,0	11,0	10,0	8,0										
	25	25,0	25,0	25,0	23,9	22,0	20,0	17,0	16,0	13,0										
	40	40,0	40,0	40,0	38,1	35,0	32,0	28,0	24,0	21,0										
	63	63,0	63,0	63,0	58,1	50,0	45,0	40,0	36,0	32,0										
	100	100,0	100,0	100,0	92,5	80,0	70,0	60,0	56,0	50,0										
1.0566 34)	10 ²⁾	10,0	10,0	10,0	10,0	9,0	8,0	7,0												
	16 ²⁾	16,0	16,0	16,0	16,0	15,0	14,0	13,0	11,0											
	25 ²⁾	25,0	25,0	25,0	25,0	24,0	22,0	20,0	17,0											
	40 ²⁾	40,0	40,0	40,0	40,0	39,0	35,0	31,0	28,0											
	63 ²⁾	63,0	63,0	63,0	63,0	61,0	55,0	49,0	44,0											
	100 ²⁾	100,0	100,0	100,0	100,0	96,0	88,0	79,0	70,0											
1.5415	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	8,8	8,0	7,6	7,2	6,8								
	16 ²⁾	16,0	16,0	16,0	16,0	16,0	16,0	14,1	12,8	12,2	11,5	10,9								
	25	25,0	25,0	25,0	25,0	25,0	25,0	22,0	20,0	19,0	18,0	17,0								
	40	40,0	40,0	40,0	40,0	40,0	40,0	35,0	31,0	30,0	29,0	28,0								
	63	63,0	63,0	63,0	63,0	63,0	63,0	56,0	50,0	47,0	46,0	45,0								
1.7335	100	100,0	100,0	100,0	100,0	100,0	100,0	87,0	78,0	74,0	72,0	70,0								
	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	9,6	9,2	8,8	8,4	8,0	7,2	6,0	4,8	3,6				
	16 ²⁾	16,0	16,0	16,0	16,0	16,0	16,0	15,4	14,7	14,1	13,4	12,8	11,5	9,6	7,7	5,8				
	25	25,0	25,0	25,0	25,0	25,0	25,0	24,0	23,0	22,0	21,0	20,0	18,0	15,0	12,0	9,0				
	40	40,0	40,0	40,0	40,0	40,0	40,0	38,0	36,0	35,0	34,0	33,0	29,0	24,0	19,0	15,0				
	63	63,0	63,0	63,0	63,0	63,0	63,0	61,0	58,0	57,0	56,0	53,0	47,0	40,0	32,0	25,0				
1.7383	100	100,0	100,0	100,0	100,0	100,0	100,0	95,0	91,0	89,0	87,0	82,0	74,0	62,0	49,0	38,0				
	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	9,5	9,1	8,9	8,7	8,3	7,4	6,3	5,0	4,4	3,8	3,3		
	16 ²⁾	16,0	16,0	16,0	16,0	16,0	16,0	15,2	14,6	14,2	13,9	13,2	11,8	10,0	7,9	6,0	5,2			
	25 ²⁾	25,0	25,0	25,0	25,0	25,0	25,0	23,8	22,8	22,3	21,8	20,6	18,4	15,6	12,4	10,9	9,4	8,1		
	40 ²⁾	40,0	40,0	40,0	40,0	40,0	40,0	38,0	36,4	35,6	34,8	33,0	29,5	25,0	19,8	17,4	15,1	13,0		
	63 ²⁾	63,0	63,0	63,0	63,0	63,0	63,0	60,8	58,2	57,0	55,7	52,8	47,2	40,0	31,7	27,8	24,2	20,8		
	100 ²⁾	100,0	100,0	100,0	100,0	100,0	100,0	95,0	91,0	89,0	87,0	82,5	73,8	62,5	49,5	43,5	37,8	32,5		

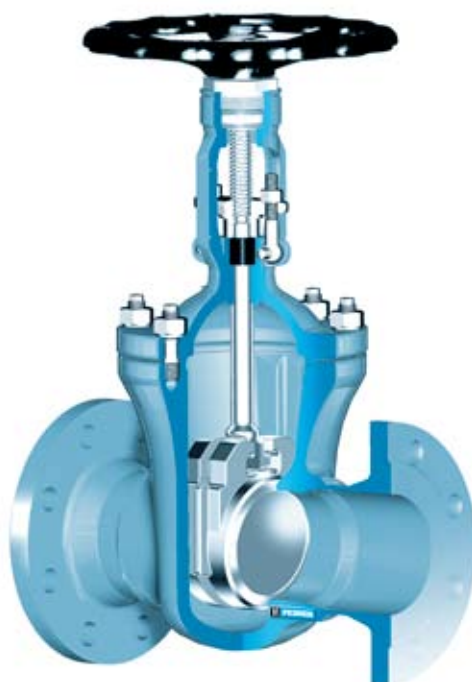
1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) Pressure rating not applicable in design code

3) In case of stainless steel bolts (DIN material code A4-70) with > 8 x d bolt length the strength characteristics acc. to table 6 of DIN 267 part 11 have been considered.

4) At temperature > 50 °C only applicable for short time service.

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA) ■ PN 10-40 ■ PN 10-100 ■ DN 50-150



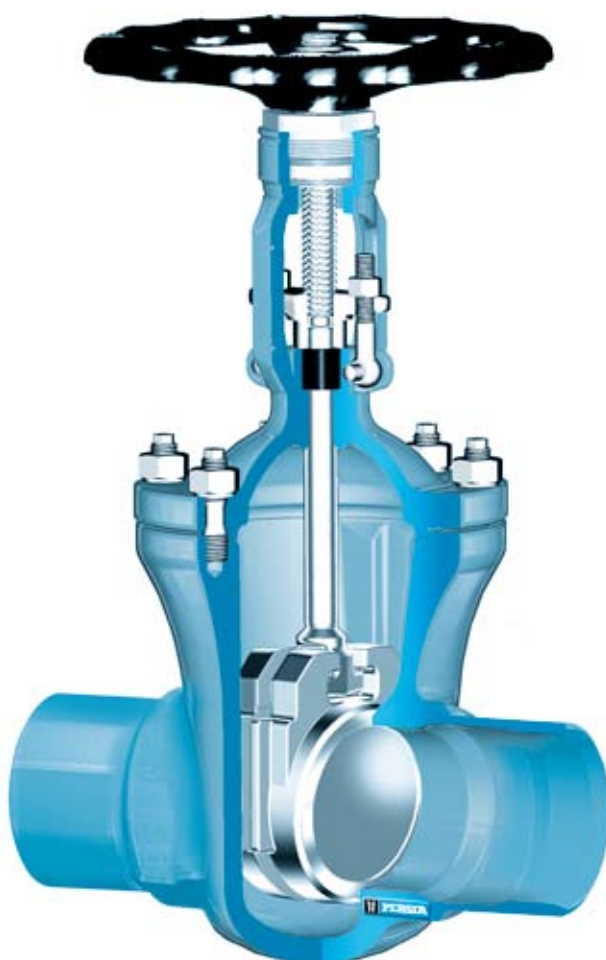
Pressure rate table acc. DIN EN 1092-1

Admissible operating pressure [bar] at design temperature [°C] 1)

Material	PN	-10	20	50	100	150	200	250	300	350	400	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600
1.0619	16	160	160	160	148	140	133	121	110	102	95	52															
	25	250	250	250	232	220	208	190	172	160	148	82															
	40	400	400	400	371	352	333	304	276	257	238	131															
1.0460	10	100	100	100	92	88	83	76	69	64	59	32															
	16	160	160	160	148	140	133	121	110	102	95	52															
	25	250	250	250	232	220	208	190	172	160	148	82															
	40	400	400	400	371	352	333	304	276	257	238	131															
	63	630	630	630	585	555	525	480	435	405	375	207															
	100	1000	1000	1000	928	880	833	761	690	642	595	328															
1.5415	10	100	100	100	100	100	100	97	85	80	74	69	64	59	54	49	44	35	28	22							
	16	160	160	160	160	160	160	156	137	129	119	110	102	94	86	78	70	56	44	35							
	25	250	250	250	250	250	250	244	214	202	186	172	160	147	135	123	110	88	70	55							
	40	400	400	400	400	400	400	390	342	323	299	276	256	236	216	197	177	140	112	89							
	63	630	630	630	630	630	630	615	540	510	471	435	403	372	341	310	279	222	177	141							
	100	1000	1000	1000	1000	1000	1000	976	857	809	747	690	640	591	542	492	442	352	280	223							
1.7335	10	100	100	100	100	100	100	100	95	90	84	80	76	72	68	65	55	44	37	29	23	19	15				
	16	160	160	160	160	160	160	160	152	144	134	128	121	115	108	104	88	71	59	46	37	30	25				
	25	250	250	250	250	250	250	250	238	225	210	200	190	180	170	163	138	111	93	72	58	47	39				
	40	400	400	400	400	400	400	400	380	360	337	320	304	288	272	260	220	179	148	116	93	76	62				
	63	630	630	630	630	630	630	600	567	531	505	479	454	428	411	348	282	234	183	147	120	99					
	100	1000	1000	1000	1000	1000	1000	1000	962	900	842	802	761	720	680	652	562	447	371	290	233	190	157				
1.7383	10	100	100	100	100	100	100	100	97	92	88	83	78	73	69	64	56	49	42	37	32	27	24	20	18	16	
	16	160	160	160	160	160	160	160	156	148	140	133	125	118	110	102	89	78	68	59	51	44	38	33	28	25	
	25	250	250	250	250	250	250	250	244	232	220	208	196	184	172	160	140	122	107	92	80	69	60	52	45	40	
	40	400	400	400	400	400	400	400	390	371	352	333	314	295	276	257	224	196	171	148	129	110	97	83	72	64	
	63	630	630	630	630	630	630	630	615	585	555	525	495	465	435	405	354	309	270	234	204	174	153	132	114	102	
	100	1000	1000	1000	1000	1000	1000	1000	976	928	880	833	785	738	690	642	561	490	428	371	323	276	242	209	180	161	

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ (GA) ▪ PN 10-40 ▪ PN 10-100 ▪ DN 50-150



Pressure rate table only valid for buttweld ends

Pressure rate table only valid for buttweld ends																															
Admissible operating pressure [bar] at design temperature [°C] ¹⁾																															
Material	PD	-60	-10	20	100	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
1.0460	10	1000	1000	1000	1000	940	820	740	642	595	480	450	430	410	380	340	280	230													
1.0566 ²⁾³⁾	10	1000	1021	1021	1000	960	880	790	700																						
1.5415	10	1200	1200	1200	1200	1120	1030	880	850	820	820	810	810	800	790	790	780	780	680	530	400	320	250								
1.7335	10	1200	1200	1200	1200	1200	1180	1090	1030	970	960	950	940	920	910	910	900	890	890	810	680	540	440	350	280	230	180				
1.7383	10	1200	1200	1200	1200	1200	1200	1180	1090	1030	1020	1010	990	980	970	960	950	940	890	790	680	610	530	460	400	340	300	260	220	200	

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) At temperatures > 50 °C only applicable for short time service.

3) In case of stainless steel bolts (DIN material code A4-70) with > 8 x d bolt length the strength characteristics acc. to table 6 of DIN 267 part 11 have been considered.

■ **Gate valves** ■ **Gate valve** ■ **700 HJ/JJ (GA)** ■ **PN 10-40** ■ **PN 10-100** ■ **DN 50-150**

Standard features

- Split disc gate valve / 2 disc-design = Type JJ
- Wedge gate valve / Flexible wedge design = Type HJ
- Die-forged body and bonnet
- Full bore, exception DN 65/50 and DN 125/100
- Outside screw and yoke
- Non turning, rising stem
- Yoke sleeve
- Available with flange and buttweld ends

Materials

- 1.0460
- 1.0619 just for flange type PN 10-40
- 1.0566
- 1.5415
- 1.7335
- 1.7383

Further materials on request.

Option standard features GA

- Wedge gate valve / Flexible wedge design
- Inside screw
- Non-rising turning stem

Media

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

Pressure and temperature ratings

- Pressure rating up to 100 bar
- Acc. to PERSTA PD 10 up to 120 bar
- Temperature rating up to 600 °C

Fields of application

Chemical industries, power plants, ship building and other

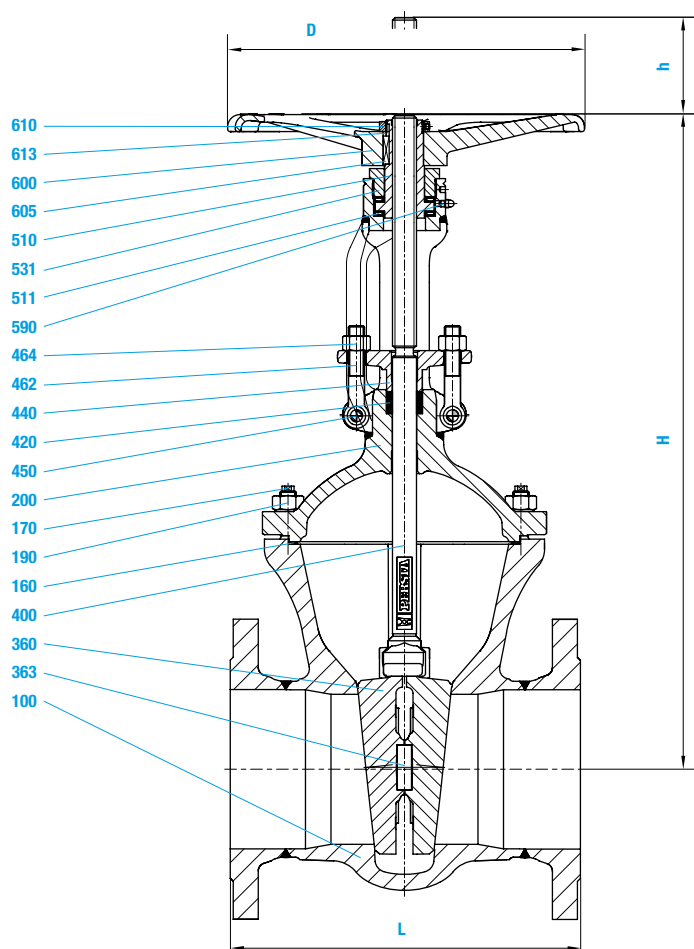
Design Highlights

- The main valve body is one-piece die-forged incorporating the bonnet flange and the guide for the shut-off device
- Hard faced seats (valve body and shut-off device). Hardness app. 35-37 HRC
- Bolted bonnet with reduced shaft bolts
- Full bore, except DN 65/50 and DN 125/100
- Non - turning rising stem
- Type GA, turning non-rising stem

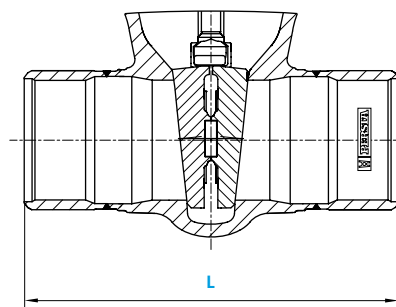
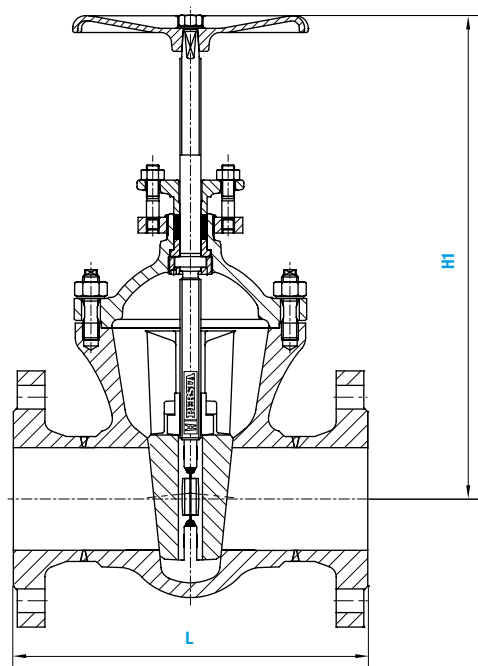
Benefits

- Die-forged parts, compared with cast steel parts are generally free from porosity and shrink holes. The special of the valve body minimizes the existence of welding seams
- Extremely resistant to wear
- To improve the stress capability when temperature and pressure fluctuate
- No reduction in seat area
- Minimum wear to the gland packing compared with ground stem surfaces
- Small dimensions

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150



700 GA

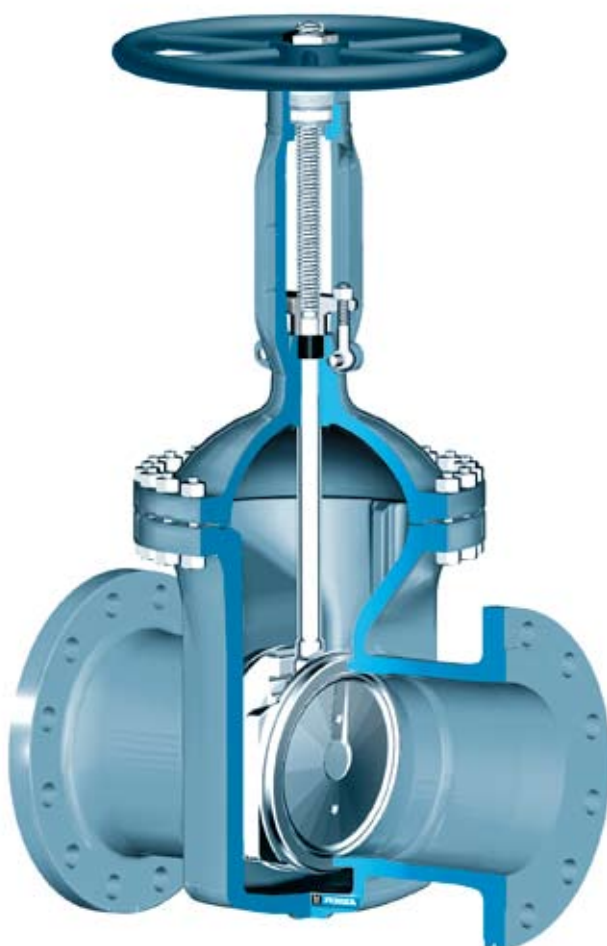


■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150

Materials							
Pos.	Component	1.0619 (11) PN 10-40	1.0460 (21)	1.0566 (25)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body	1.0619 ¹⁾	1.0460 ¹⁾	1.0566 ¹⁾	1.5415 ²⁾	1.7335 ²⁾	1.7383 ²⁾
160	▶ Gasket	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾
170	Stud	1.7709	1.7709	A4-70	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	A4-70	1.7218	1.7218	1.7218
200	Bonnet	1.0460	1.0460	1.0566	1.5415	1.7335	1.7383
360	▶ Disc	1.0460 ³⁾	1.0460 ³⁾	1.0566 ³⁾	1.5415 ²⁾	1.7335 ²⁾	1.7383 ²⁾
363	Pressure piece	1.4021	1.4021	1.4021	1.4021	1.4021	1.4021
400	▶ Stem	1.4021	1.4021	1.4571	1.4122	1.4122	1.4122
420	▶ Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.0460	1.0460	1.4571	1.0460	1.0460	1.0460
450	Grooved pin	St	St	1.4571	St	St	St
462	Eye bolt	1.1181	1.1181	A4-50	1.1181	1.1181	1.1181
464	Hexagonal nut	1.1181	1.1181	A4-70	1.1181	1.1181	1.1181
510	▶ Yoke sleeve	1.0718	1.0718	1.0718	1.0718	1.0718	1.0718
511	▶ Bearing	WLS	WLS	WLS	WLS	WLS	WLS
531	Screwing	1.0718	1.0718	1.0718	1.0718	1.0718	1.0718
590	Grease nipple	5.8	5.8	5.8	5.8	5.8	5.8
600	Handwheel	5.3106	5.3106	5.3106	5.3106	5.3106	5.3106
605	Key	1.0060	1.0060	1.0060	1.0060	1.0060	1.0060
610	Hexagonal nut	St	St	St	St	St	St
613	Screw pin	45H	45H	45H	45H	45H	45H
▶ Spare parts 1) Welded on with Cr17 2) Welded on with Stellite 3) Welded on with 18/8 4) DN 150 grooved with graphite layer Attention: Ki-Gate-Valve 700 GA only in material 1.0460							

Dimensions/mm									Weights/kg and Kvs-values												
PN DN								700 GA	GS-C25N							700 GA					
	10-25 L	40-100 L	10-40 H	63-100 H	Stroke	10-40 D	63-100 D	H1	10-25 FL	40 FL	10-25 FL	40 FL	63 FL	100 FL	10-40 BW	63-100 BW	10-25 FL	40 FL	10-40 BW	Kvs (m3/h)	
50	250	250	337	337	63	180	180	280	21,5	21,5	19,0	19,0	23,5	26,5	15,0	15,5	19,0	19,0	15,0	258,0	
65 / 50	270	290	337	337	63	180	180	280			21,0	21,0	26,0	30,5	15,5	16,0	21,0	21,0	28,0	258,0	
80	280	310	410	410	90	225	225	345	40,0	40,0	35,0	35,0	40,5	45,0	28,0	31,0	35,0	35,0	28,0	628,0	
100	300	350	455	505	110	280	360	405	57,0	61,5	50,0	54,0	63,0	71,0	43,0	47,0	50,0	54,0	43,0	991,0	
125 / 100	325	400	455	505	110	280	360	405			53,5	59,0	74,0	89,0	45,0	49,0	53,0	59,0	45,0	991,0	
150	350	450	655	685	165	360	450	525	114,0	120,0	92,0	98,0	138,0	155,0	80,0	100,0	92,0	98,0	80,0	2323,0	

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA) ■ PN 10-40 ■ DN 200-250



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-60	-10	20	120	150	200	250	300	350	400	450
1.0460	10-16	16	16	16	15	14	13	11	10	8	6	
	25	25	25	25	23,5	22	20	17	16	13	10	
	40	40	40	40	37,5	35	32	28	24	21	10	
1.0566 ²⁾	10-16	16	16	16	15	14	13	11				
	25	25	25	25	24	22	20	17				
	40	40	40	40	38	35	32	28				

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) At temperatures > 50 °C only applicable for short-time service.

■ **Gate valves** ■ **Gate valve** ■ **700 HJ/JJ (GA)** ■ **PN 10-40** ■ **DN 200-250**

Standard features

- Split disc gate valve / 2 disc-design = Type JJ
- Wedge gate valve / Flexible wedge design = Type HJ
- Die-forged body and bonnet
- Body with full bore
- Outside screw and yoke
- Non-turning rising stem
- Yoke sleeve
- Available with flange and buttweld ends

Option standard features GA

- Wedge gate valve / Flexible wedge design
- Inside screw
- Non-rising turning stem

Pressure and temperature ratings

- Pressure rating up to 40 bar
- Temperature rating up to 450 °C

Materials

- 1.0460
- 1.0566

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

Chemical industries, power plants, ship building and other

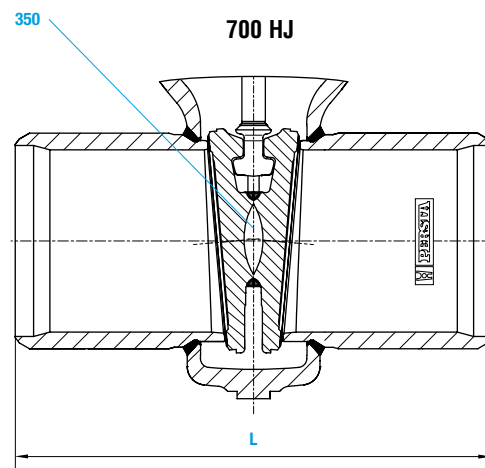
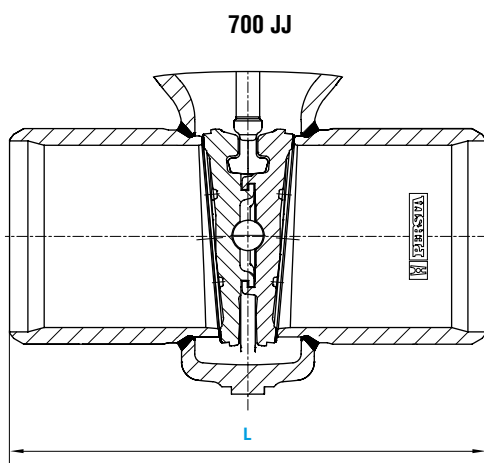
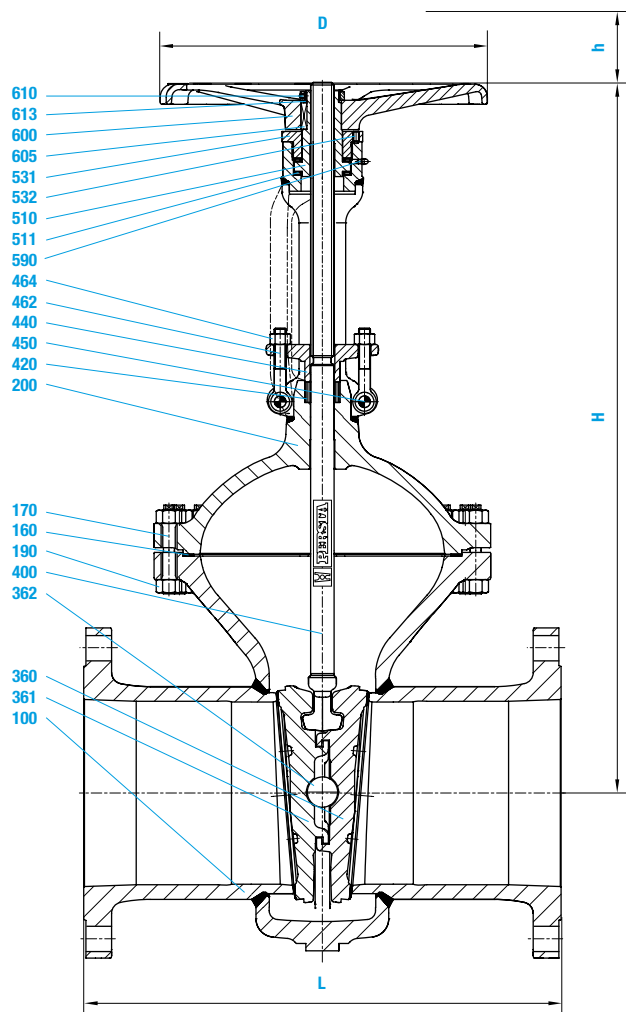
Design Highlights

- Die-forged body and bonnet
- Hard faced seats (valve body and shut-off device)
Hardness app. 35-37 HRC
- Bolted bonnet with reduced shaft bolts
- Full bore
- Non-turning, rising stem
- Type GA, rotating non-rising stem
- Possibility to add an actuator-flange

Benefits

- Free from porosity and shrink holes
- Extremely resistant to wear
- To improve the stress capability when temperature and pressure fluctuate
- No reduction at seat area
- Minimum wear to the gland packing compared with ground stem surfaces
- Small dimensions
- Simple retrofitting of an actuator possible without welding

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA) ■ PN 10-40 ■ DN 200-250



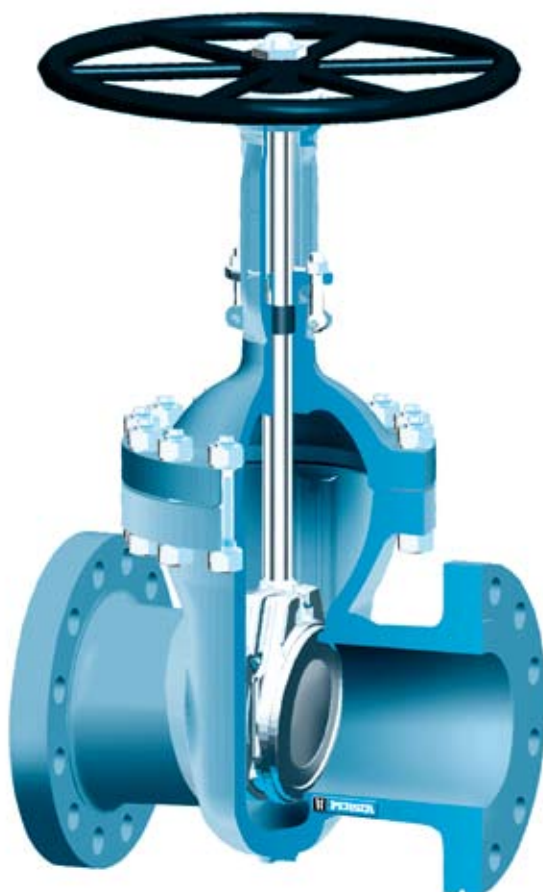
■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA) ■ PN 10-40 ■ DN 200-250

Materials			
Pos.	Component	1.0460 (21)	1.0566 (25)
100	Body	1.0460 ³⁾	1.0566 ³⁾
160	▶ Seat ring	Grooved with graphite layer	Grooved with graphite layer
170	Stud	1.1181	A4-70
190	Hexagonal nut	1.1181	A4-70
200	Bonnet	1.0460	1.0566
350	▶ Wedge	1.0460 ⁴⁾	1.0566 ⁴⁾
360 / 361	▶ Disc	1.8507 ⁴⁾	1.0566 ⁴⁾
362	▶ Ball	WLS	WLS
400	▶ Stem	1.4021 ⁵⁾	1.4571
420	▶ Packing	Graphite	Graphite
440	Gland flange	1.0460	1.4571
450	Pin	St	1.4571
462	Eye bolt	1.1181	A4-50
464	Hexagonal nut	1.1181	A4-70
510	Yoke sleeve	1.0718	1.0718
511	▶ Needle bearing	WLS	WLS
531	▶ Screwing	1.0718	1.0718
532	Screw pin	45H	45H
590	▶ Grease nipple	5.8	5.8
600	Handwheel	5.3106	5.3106
605	Key	1.0060	1.0060
610	Hexagonal pipe nut	St	St
613	Screw pin	45H	45H
▶ Spare parts			
3) Welded on with 18/8			
4) Welded on with Cr17			
5) PN 40 DN 250 = 1.4122			
Further materials on request.			
Attention: Ki-Gate-Valve 700 GA only in material 1.0460			

Dimensions/mm						
DN	PN 10-25 L	PN 40 L	H	Stroke h	PN 10-25 D	PN 40 D
200	400	550	810	220	360	450
250	450	650	975	285	450	450
700 GA DN	H1					
200			590			
250			725			

Weights/kg and Kvs-values					
DN	FL PN 10-25	FL PN 40	BW PN 10-25	BW PN 40	Kvs (m ³ /h)
200	151,5	185	140	140	4000
250	285,0	325	245	280	6247
700 GA DN					
200	138,5	170	125	125	4000
250	263,0	303	223	258	6247

■ Gate valves ■ Gate valve ■ 700 HJ/JJ ■ PN 63-100 ■ DN 200-300



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-60	-10	20	120	150	200	250	300	350	400	450	475	480	500	510	520	530	540	550	560	570	580	590	600
1.0460	63	63	63	63	58	50	45	40	36	32	21	14	12												
	100	100	100	100	91	80	70	60	56	50	34	21	19												
1.5415	63	63	63	63	63	63	63	56	50	47	45	37	35	29	22	16	14								
	100	100	100	100	100	100	100	87	78	74	70	57	54	45	34	27	22								
1.7335	63	63	63	63	63	63	63	61	58	56	53	51	47	40	32	25	20	16	13	10					
	100	100	100	100	100	100	100	95	91	87	82	80	74	62	49	38	31	24	19	16					
1.7383	63	63	63	63	63	63	63	62	62	60	55	53	47	40	35	28	25	22	18	15	12	11	9		
	100	100	100	100	100	100	100	98	96	94	85	82	74	62	53	43	39	33	27	23	19	17	15		

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ Gate valves ■ Gate valve ■ 700 HJ/JJ ■ PN 63-100 ■ DN 200-300

Standard features

- Split disc gate valve / 2 disc – design type = Type JJ
- Wedge gate valve / flexible wedge-design Type HJ
- Die-forged body and bonnet
- Full bore
- Outside screw and yoke
- Non-turning, rising stem
- Yoke sleeve
- Available with flange and butt weld ends

Media

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

Fields of application

Chemical industries, power plants, ship building and other

Pressure and temperature ratings

- Pressure rating up to 100 bar
- Temperature rating up to 600 °C

Materials

- 1.0460
- 1.5415
- 1.7335
- 1.7383

For low temperature service available as casting.
Other materials on request.

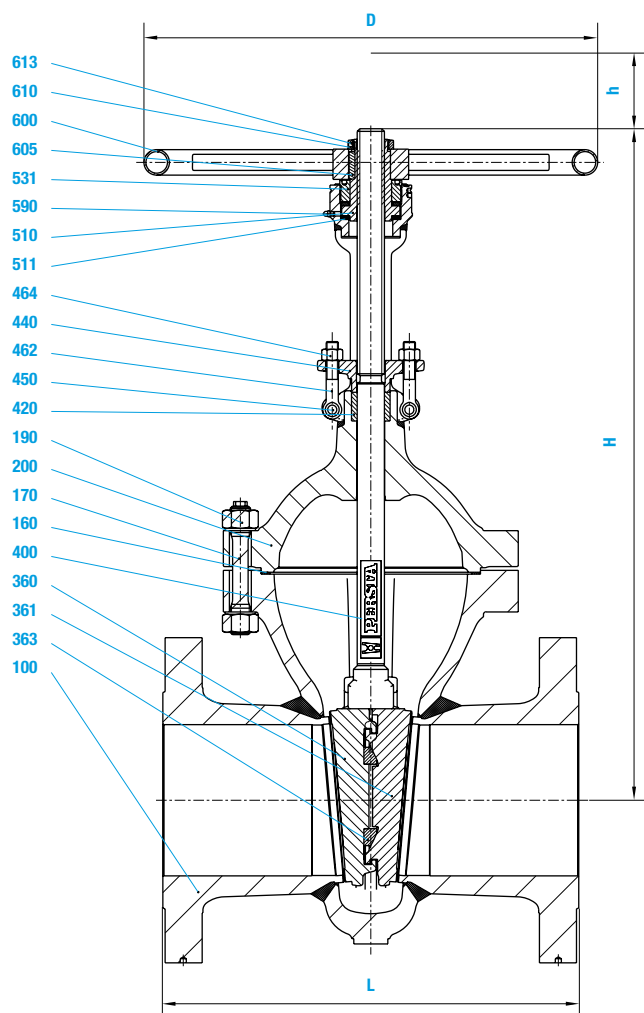
Design Highlights

- Die-forged body and bonnet
- Hard faced seats (valve body and shut-off device)
- Gasket located in gap
- Full bore
- Non-rising stem

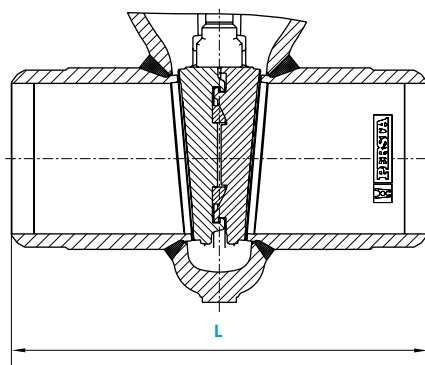
Benefits

- Free from porosity and shrink holes
- Extremely resistant to wear
- Blow out protection
- No reduction in seat area
- Minimum wear to the gland packing compared with ground stem surfaces

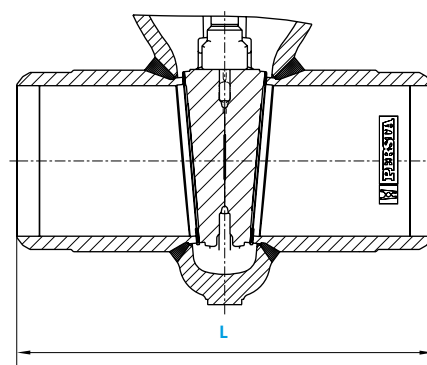
■ Gate valves ■ Gate valve ■ 700 HJ/JJ ■ PN 63-100 ■ DN 200-300



700 JJ



700 HJ



■ Gate valves ■ Gate valve ■ 700 HJ/JJ ■ PN 63-100 ■ DN 200-300

Materials					
Pos.	Component	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body	1.0460	1.7383/1.5415	1.7383/1.7335	1.7383
160	▶ Seat ring	Grooved with graphite layer	Grooved with graphite layer	Grooved with graphite layer	Grooved with graphite layer
170	Stud	1.7709	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
200	Bonnet	1.7383	1.7383	1.7383	1.7383
360 / 361	▶ Disc	1.7383 ⁴⁾	1.7383	1.7383 ¹³⁾	1.8507 ³⁾
363	▶ Pressure piece	1.4122	1.4122	1.4122	1.4122
400	▶ Stem	1.4021	1.4122	1.4122	1.4122
420	▶ Packing	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.0460	1.0460	1.0460	1.0460
450	Pin	St ⁶⁾	St ⁶⁾	St ⁶⁾	St ⁶⁾
462	Eye bolt	1.1181 ⁵⁾	1.1181 ⁵⁾	1.1181 ⁵⁾	1.1181 ⁵⁾
464	Hexagonal nut	1.1181 ⁹⁾	1.1181 ⁹⁾	1.1181 ⁹⁾	1.1181 ⁹⁾
510	▶ Yoke sleeve	1.0718 ⁸⁾	1.0718 ⁸⁾	1.0718 ⁸⁾	1.0718 ⁸⁾
511	▶ Roller bearing	WLS ⁷⁾	WLS ⁷⁾	WLS ⁷⁾	WLS ⁷⁾
531	Screwing	1.0718	1.0718	1.0718	1.0718
590	Grease nipple	5.8	5.8	5.8	5.8
600	Handwheel	St	St	St	St
605	Key	1.0060	1.0060	1.0060	1.0060
610	Hexagonal nut	St	St	St	St
613	Screw pin	45H	45H	45H	45H
▶ Spare parts					
1) ≥ DN 250 = 1.7383 welded on with Stellite					
2) Welded on with Cr17					
3) Welded on with Stellite					
4) ≥ DN 250 = 1.0460 welded on with Cr17					
5) ≥ DN 250 = 1.7709					
6) ≥ DN 250 = 1.7218					
7) ≥ DN 250 = Roller bearing					
8) ≥ DN 250 = CW 713 R					
9) ≥ DN 250 = 1.7218					

Dimensions/mm				
DN	PN 63-100 L	H	Stroke h	D
200	550	890	210	600
250	650	1110	265	720
300	750	1310	313	900

Weights/kg and Kvs-values				
DN	FL PN 63	FL PN 100	BW PN 63-100	Kvs (m ³ /h)
200	270	285	215	4000
250	480	538	430	6247
300	690	750	560	8997

■ Gate valves ■ Gate valve ■ 400 JJ ■ PN 63-100 ■ DN 350-700



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-10	20	120	150	200	250	300	350	400	450	475	480	500	510	520	530	540	550	560	570	580	590	600
1.0425	63	63	63	63	58	50	45	40	36	32	21	14,0	12											
	100	100	100	100	91	80	70	60	56	50	34	21,8	19											
1.5415	63	63	63	63	63	63	63	56	50	47	45	37,0	35	29	22	16	14							
	100	100	100	100	100	100	100	87	78	74	70	57,0	54	45	34	27	22							
1.7335	63	63	63	63	63	63	63	61	58	56	53,0	51	47	40	32	25	20	16	13	10				
	100	100	100	100	100	100	100	95	91	87	82,0	80	74	62	49	38	31	24	19	16				
1.7383	63	63	63	63	63	63	63	62	62	60	55,0	53	47	40	35	28	25	22	18	15	12	11	9	
	100	100	100	100	100	100	100	98	96	94	85,0	82	74	62	53	43	39	33	27	23	19	17	15	

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ **Gate valves** ■ Gate valve ■ 400 JJ ■ PN 63-100 ■ DN 350-700

Standard features

- Split disc gate valve
- Outside screw and yoke
- Possibility to add an actuator

Pressure and temperature ratings

- Pressure rating up to 100 bar
- Temperature rating up to 600 °C

Materials

- 1.0425
- 1.5415
- 1.7335
- 1.7383

Media

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

Fields of application

Chemical industries, power plants, ship building and other

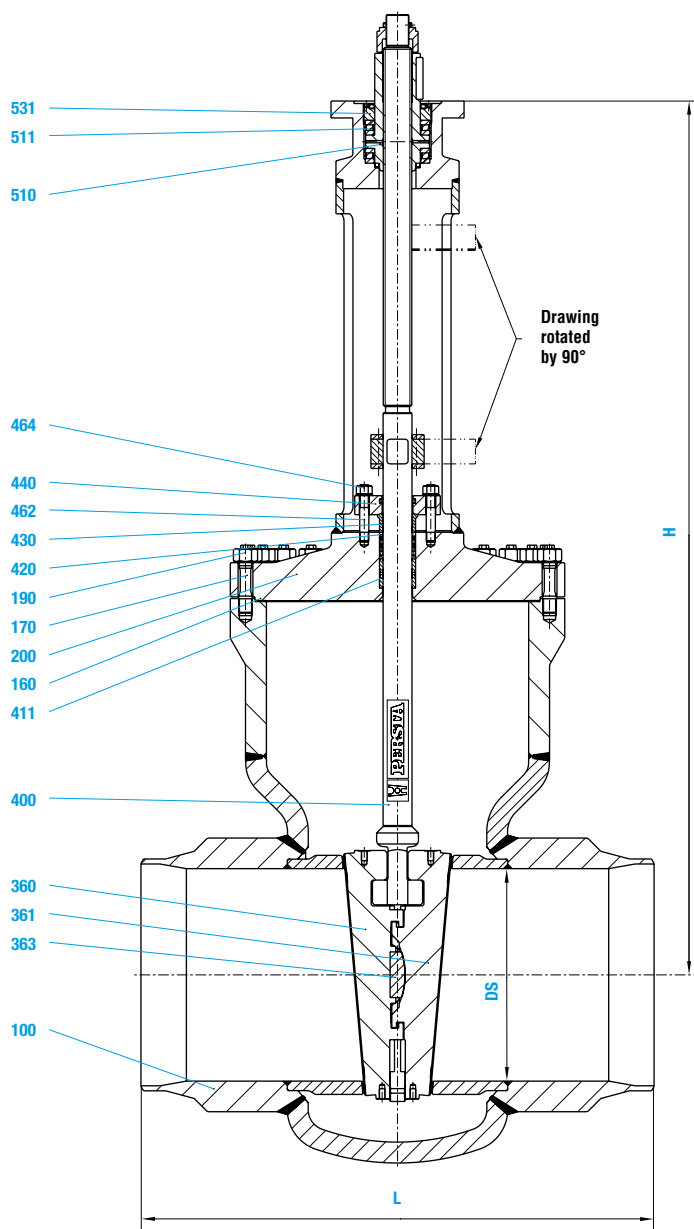
Design Highlights

- Seats and faced with stellite
- Non-turning, rising stem
- Gland flange and gland ring in two separate pieces
- Yoke sleeve supported by needle bearing

Benefits

- Best possible sliding performance, minimum wear
- Minimum wear to the gland packing
- Damage to the stem by irregular tightening of gland bolts is avoided
- Minimize the expenditure of effort when operating valve

■ Gate valves ■ Gate valve ■ 400 JJ ■ PN 63-100 ■ DN 350-700



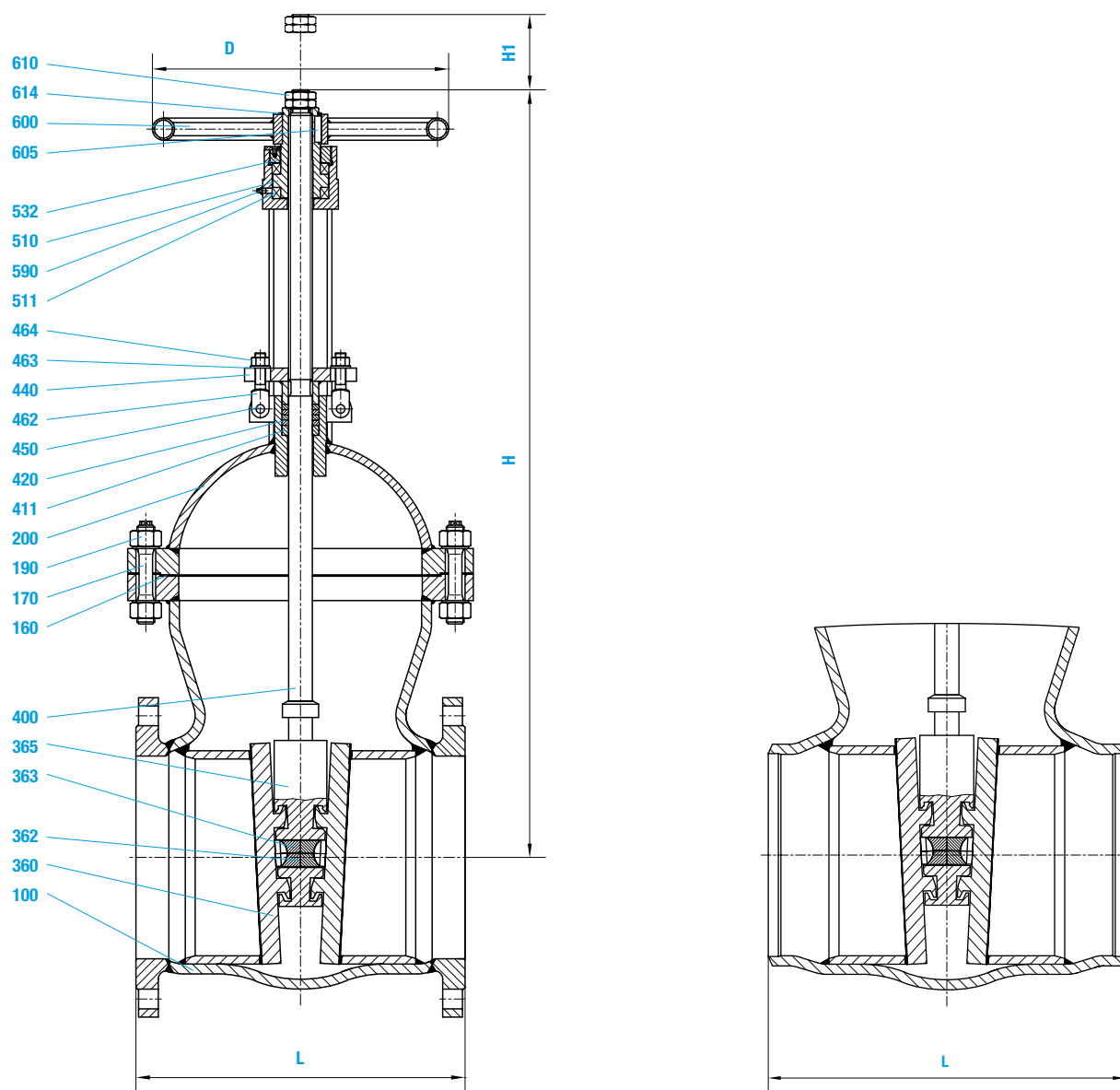
■ Gate valves ■ Gate valve ■ 400 JJ ■ PN 63-100 ■ DN 350-700

Materials					
Pos.	Component	1.0425 (22)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body welded on with	1.0425	1.5415	1.7335	1.7383
160	▶ Seat ring	Stellite	Stellite	Stellite	Stellite
170	▶ Stud	Graphite	Graphite	Graphite	Graphite
190	Hexagonal nut	1.7709	1.7709	1.7709	1.7709
200	Bonnet	1.7218	1.7218	1.7218	1.7218
360 / 361	▶ Disc welded on with	1.0460	1.5415	1.7335	1.7383
363	▶ Pressure piece	1.7383	1.7383	1.7383	1.7383
400	▶ Stem	Stellite	Stellite	Stellite	Stellite
411	▶ Guide bushing	1.4122	1.4122	1.4122	1.4122
420	▶ Packing	1.4021	1.4122	1.4122	1.4122
430	Gland ring	1.8507	1.8507	1.8507	1.8507
440	Gland flange	Graphite	Graphite	Graphite	Graphite
462	Stud	1.5415	1.5415	1.5415	1.5415
464	Hexagonal nut	1.5415	1.5415	1.7383	1.7383
510	▶ Yoke sleeve	1.7709	1.7709	1.7709	1.7709
511	▶ Bearing	1.7218	1.7218	1.7218	1.7218
531	Screwing	CW 713 R	CW 713 R	CW 713 R	CW 713 R
		WLSi	WLSi	WLSi	WLSi
		1.7335	1.7335	1.7335	1.7335
	▶ Spare parts				

Dimensions/mm				
DN	DS	Stroke	L	H
350	330	365	850	1620
400	375	417	950	1745
450	419	455	1050	2030
500	464	515	1150	2260
600	559	625	1350	2560
700	640	690	1550	2695

Weights/kg and Kvs-values		
DN	BW	Kvs (m ³ /h)
350	950	11243
400	1500	14521
450	1850	18105
500	2350	22353
600	4300	32188
700	5100	41773

■ Gate valves ■ VALTRA Gate valve ■ 700 JJ ■ PN 10-25 ■ DN 300-1000



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-10	20	100	120	200	250	300	350	400
P265GH	10	10	10	10	10	9	8	7	6	5
	16	16	16	16	16	14	13	11	10	8
	25	25	25	25	25	22	20	17	16	13

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

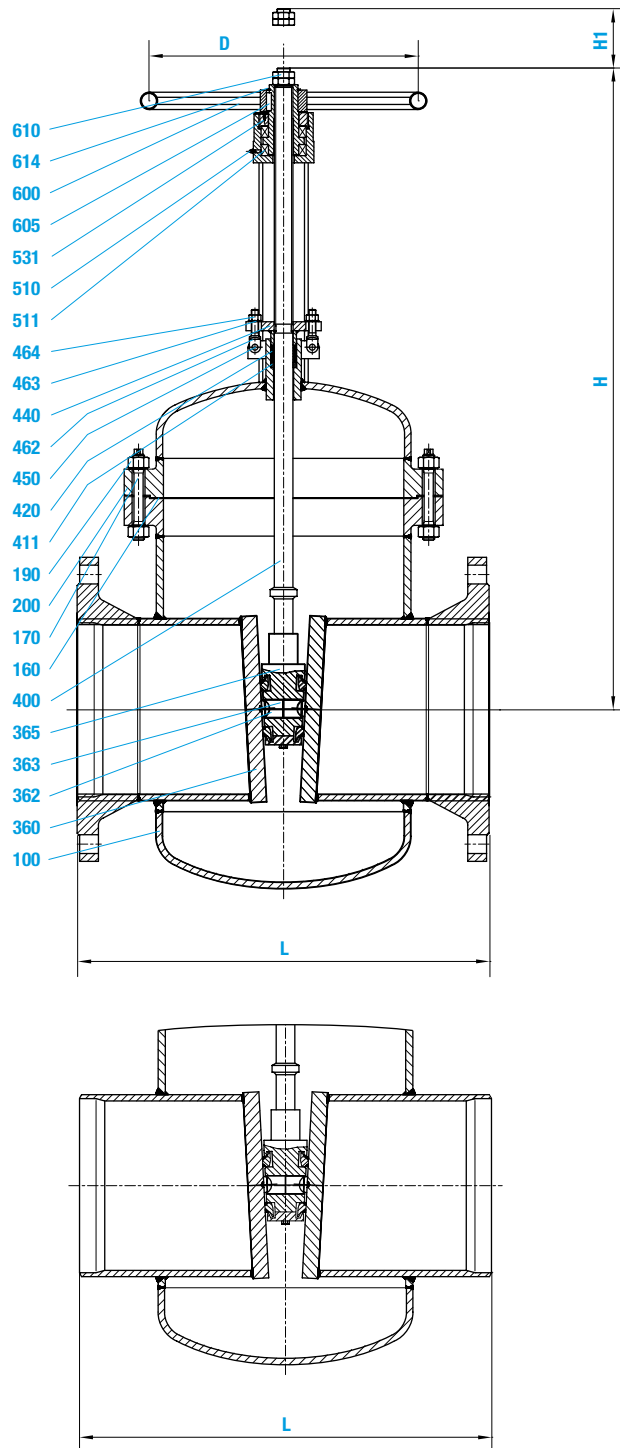
■ Gate valves ■ VALTRA Gate valve ■ 700 JJ ■ PN 10-25 ■ DN 300-1000

Materials		
Pos.	Component	P265GH (22)
100	Body welded on with	P265GH
160	▶ Gasket	X20CrMo171
170	Tension screw	Sigrallex
190	Hexagonal nut	1.7158
200	Bonnet	1.7158
360	▶ Disc welded on with	P265GH
362	▶ Ball	P265GH
363	▶ Pressure piece	X8CrTi18
365	▶ Double disc guide	1.4021
400	▶ Stem	1.4021
411	Guide bushing	GG 25
420	▶ Packing	Graphite
440	Gland flange	P265GH
450	Grooved pin	1.1181
462	Gland bolt	1.1181
463	Washer	St
464	Hexagonal nut	1.0501
510	▶ Screw pin	0.7040
511	▶ Roller bearing	WLSt
532	Countersink screw	8.8
590	Grease nipple	5.8
600	Handwheel	St
605	Key	1.0050
610	Hexagonal nut	5.6
614	Retaining ring	Spring Steel
▶ Spare parts		
Further materials on request.		

Dimensions/mm					
DN	PN 10-25 L	PN 10-25 H	PN 10-16 H1	PN 25 H1	PN 10-25 D
300	500	1165	345	345	450
350	550	1260	375	375	500
400	600	1410	420	420	600
500	700	1715	545	545	800
600	800	2035	635	655	800
700	900	2260	790		800
800	1000*	2690	1000*		800
900					
1000					
*Attention: BW-overall length, DN 800, PN 25, 1250 mm Flange-overall length, DN 800, PN 25, 1500 mm					

Weights/kg and Kvs-values							
DN	PN 10 FL	PN 16 FL	PN 25 FL	PN 10 BW	PN 16 BW	PN 25 BW	Kvs (m3/h)
300	320	330	360	295	295	315	9230
350	390	405	445	360	360	380	11237
400	540	560	610	500	500	525	14677
500	815	860	945	765	765	850	23561
600	1210	1270	1370	1170	1170	1285	33929
700	1690	1715	1980	1630	1630	1775	46181
800	2410	2440	3480	2330	2330	2500	60318
900							
1000							

■ Gate valves ■ VALTRA Gate valve ■ 700 JJ ■ PN 40 ■ DN 300-700



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-10	20	100	120	200	250	300	350	400
P265GH	40	40	40	40	40	35	32	28	24	21

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

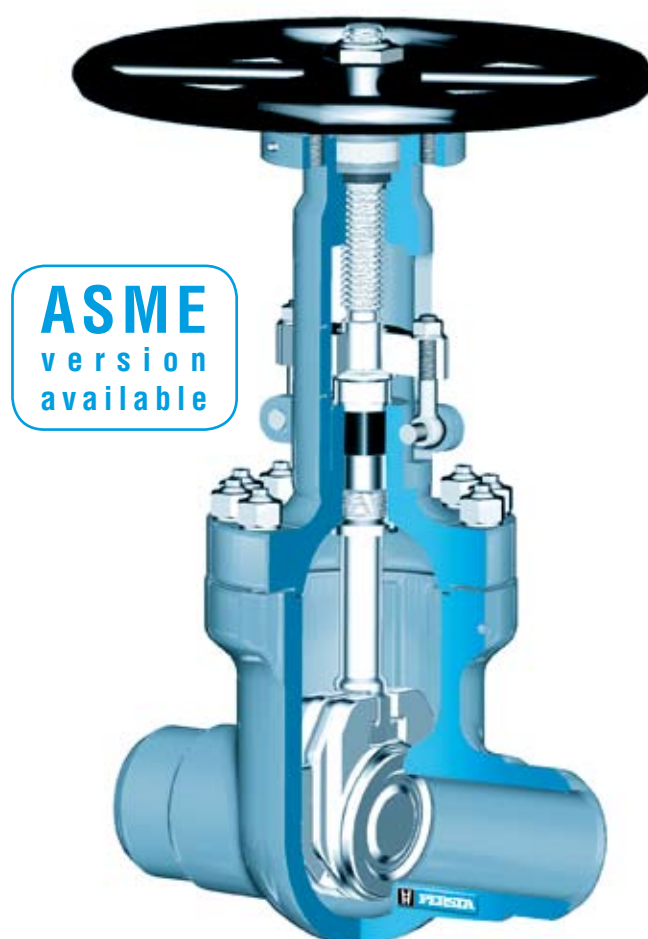
■ Gate valves ■ VALTRA Gate valve ■ 700 JJ ■ PN 40 ■ DN 300-700

Materials		
Pos.	Component	P265GH (22)
100	Body welded on with	P265GH
160	▶ Seat ring	X20CrMo171
170	Tension screw	Sigrallex
190	Hexagonal nut	1.7158
200	Bonnet	1.7158
360	▶ Disc welded on with	P265GH
362	▶ Ball	X8CrTi18
363	▶ Pressure piece	1.4021
365	▶ Double disc guide	1.4021
400	▶ Stem	P265GH
411	Guide bushing	GG 25
420	▶ Packing	Graphite
440	Gland flange	P265GH
450	Grooved pin	1.1181
462	Gland bolt	1.1181
463	Washer	St
464	Hexagonal nut	1.0501
510	▶ Yoke sleeve	0.7040
511	▶ Bearing	WLS
531	Yoke nut	S355J2G3
600	Handwheel	St
605	Key	1.0050
610	Hexagonal nut	5.6
614	Retaining ring	Spring Steel
▶ Spare parts		
Further materials on request.		

Dimensions/mm				
DN	L	H	Stroke	D
300	750	1260	345	500
350	850	1295	375	600
400	950	1575	445	800
500	1150	1795	525	800
600	1350	2155	640	800
700	1550	2595	770	800
800	1750			

Weights/kg and Kvs-values			
DN	FL	BW	Kvs (m ³ /h)
300	440	370	9230
350	610	460	11237
400	890	710	14677
500	1270	1050	23561
600	2310	1980	33929
700	3210	2960	46181
800			

■ Gate valves ■ Gate valve ■ 700 JJ ■ PN 160 / PD 18 ■ DN 50-300/250



Range of application

FL- Version Material	PN	Admissible operating pressure [bar] at design temperature [°C] ¹⁾															
		-10	20	120	150	200	250	300	350	400	450	500	510	520	530	540	550
1.5415	160	160	160	160	160	160	160	139	125	118	112	72	55	43	35		
1.7335	160	160	160	160	160	160	160	153	146	139	118	100	79	62	46	35	
1.7383	160	160	160	160	160	160	160	153	146	139	118	100	79	70	61	52	

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

BW- Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																	
		20	50	100	120	150	200	250	300	350	400	420	430	440	460	470	480	490	500
1.5415	18	258	246	229	219	204	185	170	146	141	136	134	133	132	130	129	128	112	88
1.7335	18	258	249	234	228	219	205	194	180	170	161	156	155	153	150	149	148	147	133
1.7383	18	258	250	239	233	224	210	205	194	180	170	166	164	162	159	156	155	153	131

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ **Gate valves** ■ **Gate valve** ■ **700 JJ** ■ **PN 160 / PD 18** ■ **DN 50-300/250**

Standard features

- Die-forged body
- Split disc type
- Incorporated seats
- Outside screw
- Gasket located in a groove
- Yoke sleeve with needle bearings
- Universal valve head for mounting actuators

Pressure and temperature ratings

- Pressure rating BW up to 258 bar (PD 18)
- Pressure rating FL up to 160 bar
- Temperature ratings up -10 °C up to 600 °C

Materials

- 1.5415
- 1.7335
- 1.7383

Further materials on request.

Media

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

Fields of application

Chemical industries, power plants, ship building and other

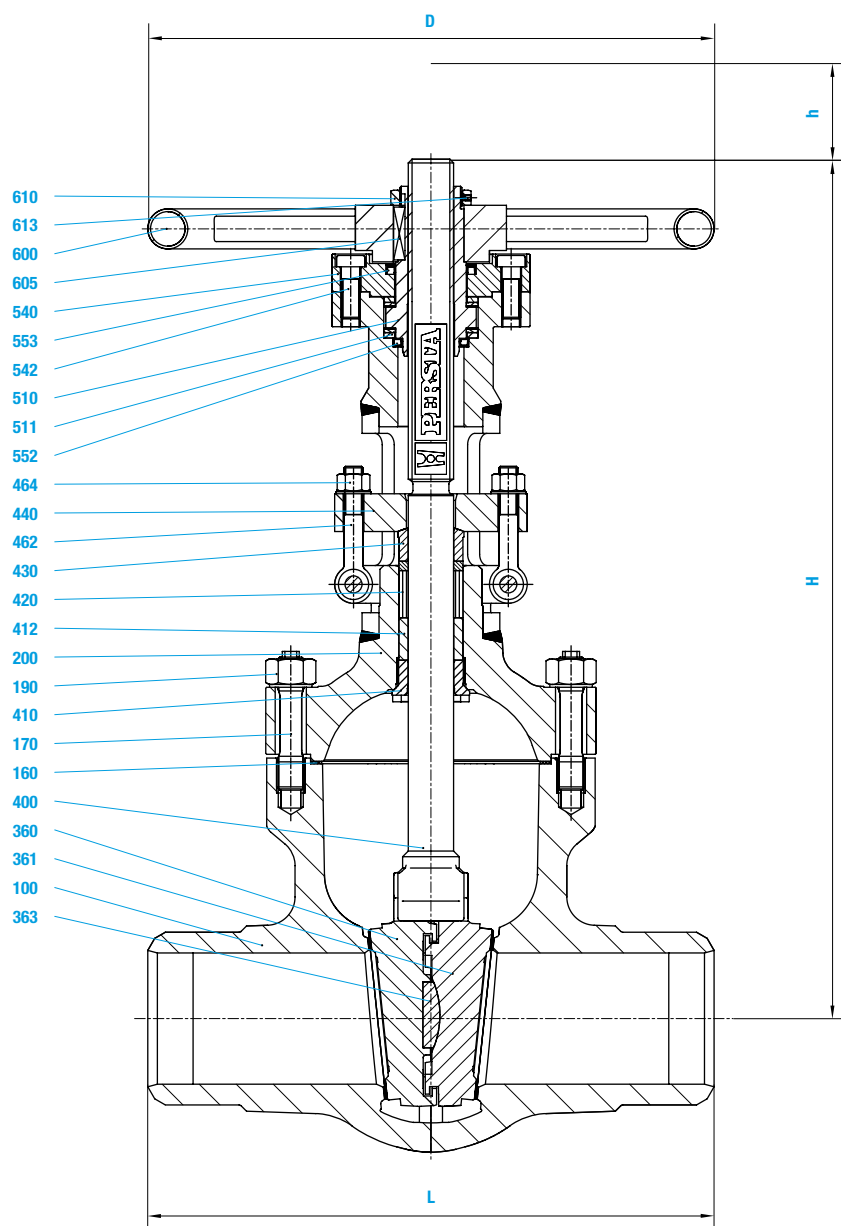
Design Highlights

- Die-forged valve body with incorporated seats
- Seats and disc faced with stellite
- Non-rising handwheel
- Non-turning, rising stem and burnished stem
- Hammer head connection between wedge and stem
- Gland ring and gland flange in two separate pieces
- Yoke sleeve supported at the top and at the bottom by means of needle bearings (axial type)
- Valve head equipped with dirt scrapers below and above the bearings

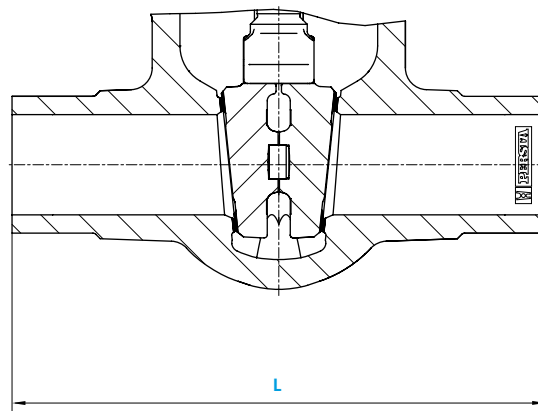
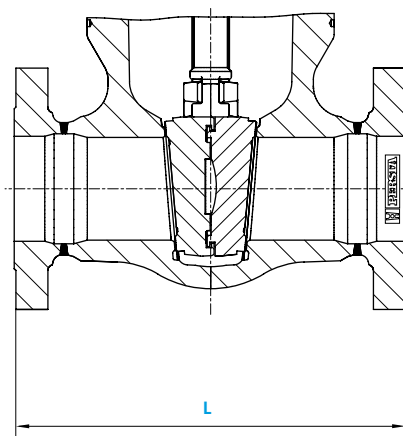
Benefits

- Free from porosity and shrink holes
- Best possible sliding performance, minimum wear
- Small dimensions
- Minimum wear to the gland packing
- The wedges are able to move parallel to the axis of the pipeline within the guiding groove. This protects the stem against bending moments
- Damage to the stem by irregular tightening of gland bolts is avoided
- To minimize the expenditure of effort when opening and closing the valve
- To protect against dirt and to avoid the loss of lubricants

■ Gate valves ■ Gate valve ■ 700 JJ ■ PN 160 / PD 18 ■ DN 50-300/250



Version DN 50 - 80



■ Gate valves ■ Gate valve ■ 700 JJ ■ PN 160 / PD 18 ■ DN 50-300/250

Materials				
Pos.	Component	1.5415 (42)	1.7335 (44)	1.7383 (45)
100 160	Body ▶ Gasket	1.5415 ¹⁾ Grooved with graphite layer	1.7383/1.7335 ¹⁾ Grooved with graphite layer	1.7383 ¹⁾ Grooved with graphite layer
170	Stud	1.7709	1.7709 ²⁾	1.7709 ²⁾
190	Hexagonal nut	1.7218	1.7218	1.7218
200	Bonnet	1.7383	1.7383	1.7383
360 / 361	▶ Disc	1.7383 ¹⁾	1.7383 ¹⁾	1.7383 ¹⁾
363	▶ Pressure piece	1.4122	1.4122	1.4122
400	▶ Stem	1.4923	1.4923	1.4923
410	Back seat bushing	1.4006	1.4006	1.4006
412	Guide sleeve	1.0718	1.0718	1.0718
420	▶ Packing	Graphite	Graphite	Graphite
430	Gland ring	1.5415	1.5415	1.5415
440	Gland flange	1.5415	1.5415	1.5415
462	Eye bolt	1.7709	1.7709	1.7709
464	Hexagonal nut	1.7218	1.7218	1.7218
510	▶ Yoke sleeve	CW 713 R	CW 713 R	CW 713 R
511	▶ Bearing	WLSst	WLSst	WLSst
540	Flange	1.0425	1.0460	1.0460
542	Headcap screw	8.8	8.8	8.8
552 / 553	▶ Gasket	NBR	Viton	Viton
600	Handwheel	St	St	St
605	Key	1.0060	1.0060	1.0060
610	Hexagonal nut	St	St	St
613	Screw pin	45H	45H	45H

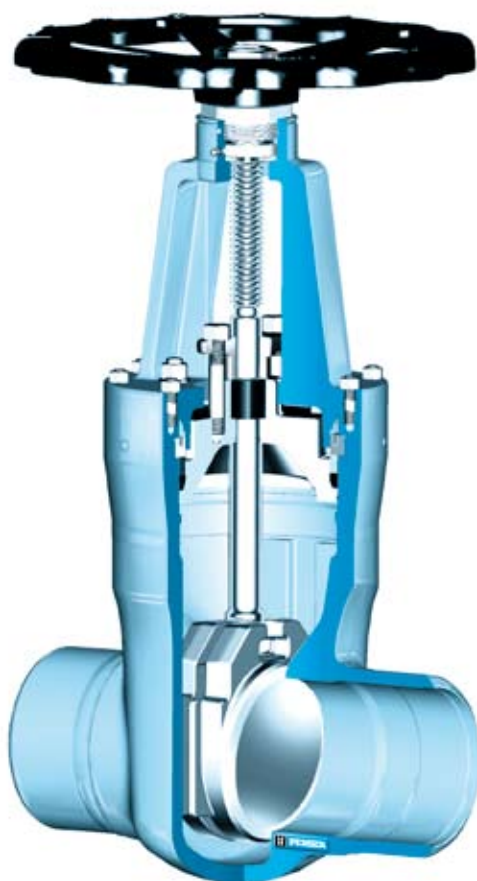
▶ Spare parts

1) Welded on with Stellite
2) Working temperature > 550 °C = Material 1.4923

Dimensions/mm				
DN	L	H	Stroke h	D
50	300	490	80	350
65 / 50	360	490	80	350
80	390	610	105	400
100	450	695	130	500
125 / 100	525	695	130	500
150	600	890	185	800
200	750	1090	235	1000
250	900	1275	265	1000
300 / 250	1050	1275	265	1000

Weights/kg and Kvs-values			
DN	FL	BW	Kvs (m ³ /h)
50	60	45	228
65 / 50	66	52	
80	116	100	565
100	148	125	930
125 / 100	165	130	
150	320	270	1995
200	610	520	3458
250	1050	930	5367
300 / 250	1180	980	5041

- Gate valves
- High pressure gate valve DSK 10
- 700 JT
- PD 10
- DN 50-150



Range of application																															
BW- Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																													
		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			
1.0460	10	100	100	94	82	74	62	50	48	45	43	41	38	34	28	23															
1.5415	10	120	120	112	103	88	85	82	81	81	80	79	79	78	78	68	53	40	32	25											
1.7335	10	120	120	120	118	109	103	97	96	95	94	92	91	91	90	89	89	81	68	54	44	35	28	23	18						
1.7383	10	120	120	120	120	118	109	103	102	101	99	98	97	96	95	94	89	79	69	61	53	46	40	34	30	26	22	20			

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ Gate valves ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 50-150

Standard features

- Split disc gate valve
- Die-forged body and bonnet
- Full bore (Except DN 65/50 and DN 125/100)
- Outside screw and yoke
- Non-turning, rising stem
- Yoke sleeve supported by needle bearings
- Pressure sealing bonnet acc. VGB-guidelines

Media

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

Fields of application

Chemical industries, power plants, ship building and other

Pressure and temperature ratings

- Pressure rating up to 120 bar
- Temperature rating up to 600 °C

Materials

- 1.0460
- 1.5415
- 1.7335
- 1.7383

Further materials on request.

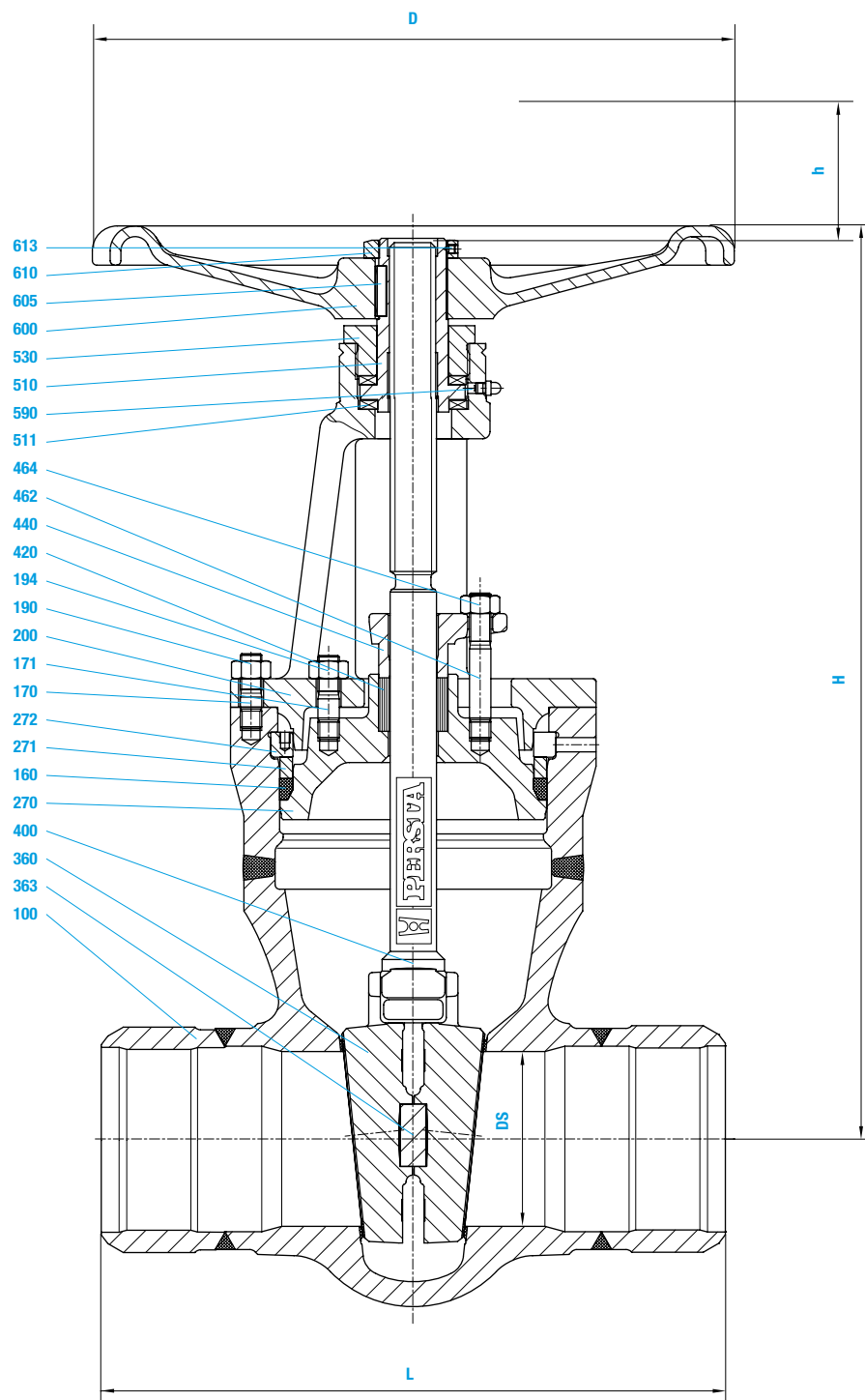
Design Highlights

- Die-forged valve body with integral seats
- Hard faced seats
- Full bore, except DN 65/50 and DN 125/100
- Non-turning rising stem with burnished shaft
- Rolled stem thread
- Pressure sealing bonnet
- Possibility to add an actuator flange

Benefits

- Compared to cast steel, robust and highly stressable
- Best possible sliding performance, minimum wear
- No reduction in seat area
- Minimum wear of the gland packing
- Optimal surface with higher surface hardness and therefore better wear resistance than cut threads
- Best possible sealing function
- Simple retrofitting of an actuator without welding

■ Gate valves ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 50-150



■ Gate valves ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 50-150

Materials					
Pos.	Component	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body welded on with	1.0460	1.5415	1.7335	1.7383
160	▶ Gasket	Cr17	Stellite	Stellite	Stellite
170	▶ Stud	Graphite	Graphite	Graphite	Graphite
171	▶ Stud	1.7709	1.7719	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
194	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
200	Bonnet	1.5419	1.5419	1.5419	1.5419
270	Cover	1.0460	1.5415	1.7335	1.7383
271	Ring	1.0460	1.5415	1.7335	1.7383
272	Segmentring	1.0460	1.5415	1.7335	1.7383
360	▶ Disc welded on with	1.0460	1.5415	1.7335	1.7383
363	▶ Pressure piece	18/8 (40)	Stellite	Stellite	Stellite
400	▶ Stem	1.4021	1.4021	1.4021	1.4021
420	▶ Packing	1.4122	1.4122	1.4122	1.4122
440	Gland flange	Graphite	Graphite	Graphite	Graphite
462	Stud	1.0460	1.0460	1.0460	1.0460
464	Hexagonal nut	1.7709	1.7709	1.7709	1.7709
510	▶ Yoke sleeve	1.7218	1.7218	1.7218	1.7218
511	▶ Roller bearing	1.0718	1.0718	1.0718	1.0718
530	Screwing	WLS	WLS	WLS	WLS
590	Grease nipple	1.0718	1.0718	1.0718	1.0718
600	Handwheel	5.8	5.8	5.8	5.8
605	Key	0.7040	0.7040	0.7040	0.7040
610	Hexagonal nut	1.0060	1.0060	1.0060	1.0060
613	Screw pin	St	St	St	St
		45H	45H	45H	45H

▶ Spare parts

Dimensions/mm					
DN	DS	L	H	Stroke h	D
50	50	250	337	63	180
65 / 50	50	290	337	63	180
80	78	310	410	90	280
100	98	350	515	110	360
125 / 100	98	400	515	110	360
150	150	450	685	165	450

Weights/kg and Kvs-values			
DN	FL	BW	Kvs (m ³ /h)
50	26,5	15,5	258,0
65 / 50	30,5	16,0	258,0
80	45,0	31,0	628,0
100	71,0	47,0	991,0
125 / 100	89,0	49,0	991,0
150	155,0	100,0	2323,0

- Gate valves ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 200-350/300



Range of application																															
BW- Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																													
		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			
1.0460	10	100	100	94	82	74	62	50	48	45	43	41	38	34	28	23															
1.5415	10	120	120	112	103	88	85	82	81	81	80	79	79	78	78	68	53	40	32	25											
1.7335	10	120	120	120	118	109	103	97	96	95	94	92	91	91	90	89	89	81	68	54	44	35	28	23	18						
1.7383	10	120	120	120	120	118	109	103	102	101	99	98	97	96	95	94	89	79	69	61	53	46	40	34	30	26	22	20			

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ **Gate valves** ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 200-350/300

Standard features

- Split disc gate valve
- Die-forged body and bonnet
- Full bore
- Outside screw and yoke
- Non-turning, rising stem
- Yoke sleeve supported by needle bearing
- Pressure sealing bonnet acc. VGB-guidelines

Pressure and temperature ratings

- Pressure rating up to 120 bar
- Temperature rating up to 600 °C

Materials

- 1.0460
- 1.5415
- 1.7335
- 1.7383

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

Chemical industries, power plants, ship building and other

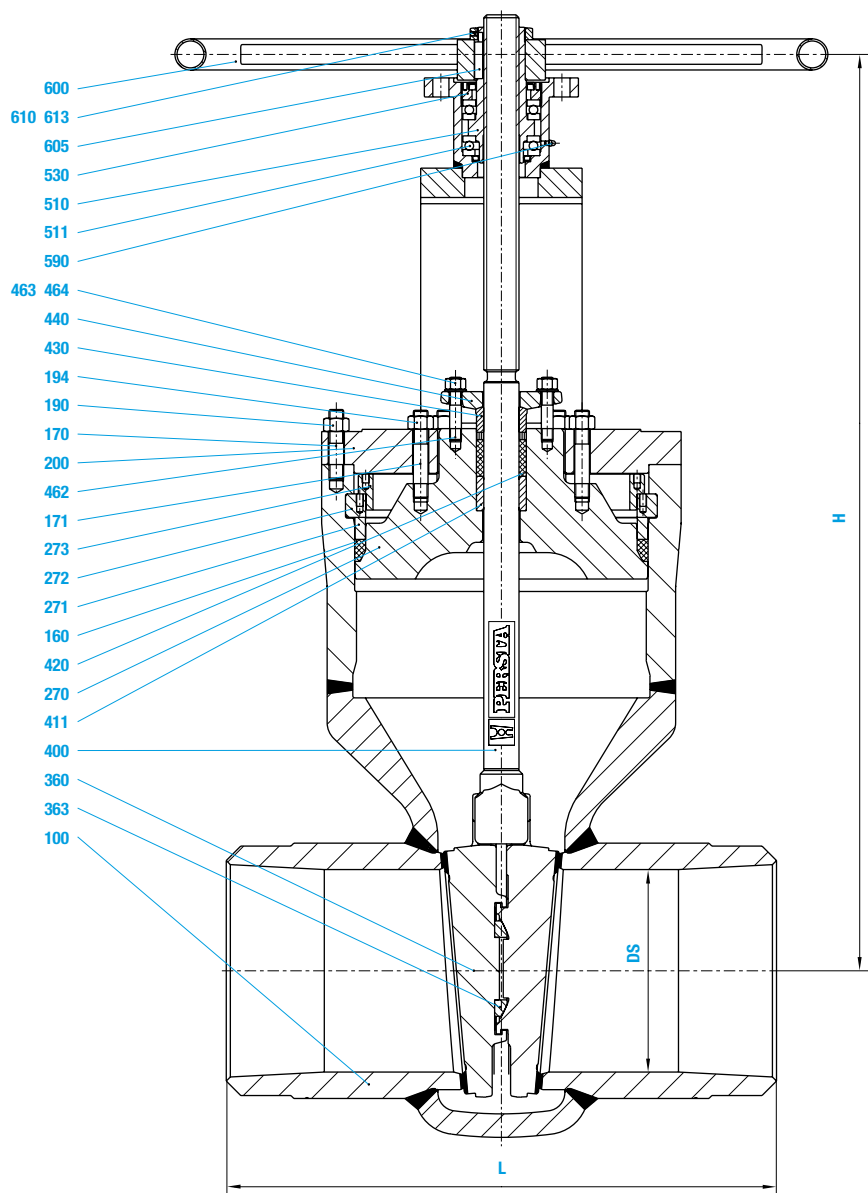
Design Highlights

- Die-forged body and bonnet
- Seats and wedge faced with stellite
- Full bore
- Gland ring and gland flange in two separate pieces
- Yoke sleeve supported by needle bearing
- Pressure sealing bonnet

Benefits

- Free from porosity and shrink holes compared to cast steel, robust and highly stressable
- Extremely resistant to wear
- No reduction in seat area
- Damage to the stem by irregular tightening of gland bolts is avoided
- Minimize the expenditure of effort when operating valve
- Best possible sealing function

■ Gate valves ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 200-350/300



■ **Gate valves** ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 200-350/300

Materials					
Pos.	Component	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body welded on with	1.0460	1.7383/1.5415	1.7383/1.7335	1.7383
160	▶ Gasket	18/8	Stellite	Stellite	Stellite
170	▶ Stud	Graphite	Graphite	Graphite	Graphite
171	Stud	1.7709	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
194	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
200	Bonnet	1.5415	1.5415	1.5415	1.5415
270	Cover	1.0460	1.5415	1.7335	1.7383
271	Ring	1.0460	1.5415	1.7335	1.7383
272	Segmentring	1.0460	1.5415	1.7335	1.7383
273	Cover	1.7383	1.5415	1.7335	1.7383
360	▶ Disc welded on with	1.7383	1.7383	1.7383	1.7383
363	▶ Pressure piece	Cr17	Stellite	Stellite	Stellite
400	▶ Stem	1.4122	1.4122	1.4122	1.4122
411	▶ Guide bushing	1.4021	1.4122	1.4122	1.4122
420	▶ Packing	1.8507	1.8507	1.8507	1.8507
430	Gland ring	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.0718	1.0718	1.0718	1.0718
462	Stud	1.0460	1.0460	1.0460	1.0460
463	Washer	1.7709	1.7709	1.7709	1.7709
464	Hexagonal nut	St	St	St	St
510	▶ Yoke sleeve	1.7218	1.7218	1.7218	1.7218
511	▶ Bearing	CW 713 R	CW 713 R	CW 713 R	CW 713 R
530	Screwing	WLSt	WLSt	WLSt	WLSt
590	Grease nipple	1.0718	1.0718	1.0718	1.0718
600	Handwheel	5.8	5.8	5.8	5.8
605	Key	0.7040	0.7040	0.7040	0.7040
610	Hexagonal nut	1.0060	1.0060	1.0060	1.0060
613	Screw pin	St	St	St	St
		45H	45H	45H	45H
	▶ Spare parts				

Dimensions/mm					
DN	DS	L	H	Stroke	D
200	198	550	920	210	600
225 / 200	198	600	920	210	600
250 / 200	198	650	920	210	600
225 / 250	235	600	1130	265	720
250	235	650	1130	265	720
300 / 250	235	750	1130	265	720
300	276	750	1300	310	900
350 / 300	276	850	1300	310	900

Weights/kg and Kvs-values		
DN	BW	Kvs (m ³ /h)
200	260	4000
225 / 200	270	
250 / 200	280	
225 / 250	530	
250	550	6247
300 / 250	580	
300	850	8997
350 / 300	870	9257

■ Gate valves ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 350-700



Range of application																																		
BW- Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																
		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	
1.0425	10	100	100	94	82	74	62	50	48	45	43	41	38	34	28	23																		
1.5415	10	120	120	112	103	88	85	82	82	81	81	80	79	79	78	78	68	53	40	32	25													
1.7335	10	120	120	120	118	109	103	97	96	95	94	92	91	91	90	89	89	81	68	54	44	35	28	23	18									
1.7383	10	120	120	120	120	118	109	103	102	101	99	98	97	96	95	94	89	79	69	61	53	46	40	34	30	26	22	20						
1.4903	10	136	136	136	136	136	136	136	136	136	136	136	136	136	136	134	122	119	110	101	93	84	76	68	61	54	48	42	37	32	27	24	21	
1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.																																		

¹⁾ Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ Gate valves ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 350-700

Standard features

- Split disc gate valve
- Outside screw and yoke
- Non-turning, rising stem
- Yoke sleeve supported by needle bearings
- Pressure sealing bonnet acc. VGB-guidelines
- Easy assembly of an E-actuator

Pressure and temperature ratings

- Pressure rating up to 136 bar
- Temperature rating up to 650 °C

Materials

- 1.0425
- 1.5415
- 1.7335
- 1.7383
- 1.4903

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

Chemical industries, power plants, ship building and other

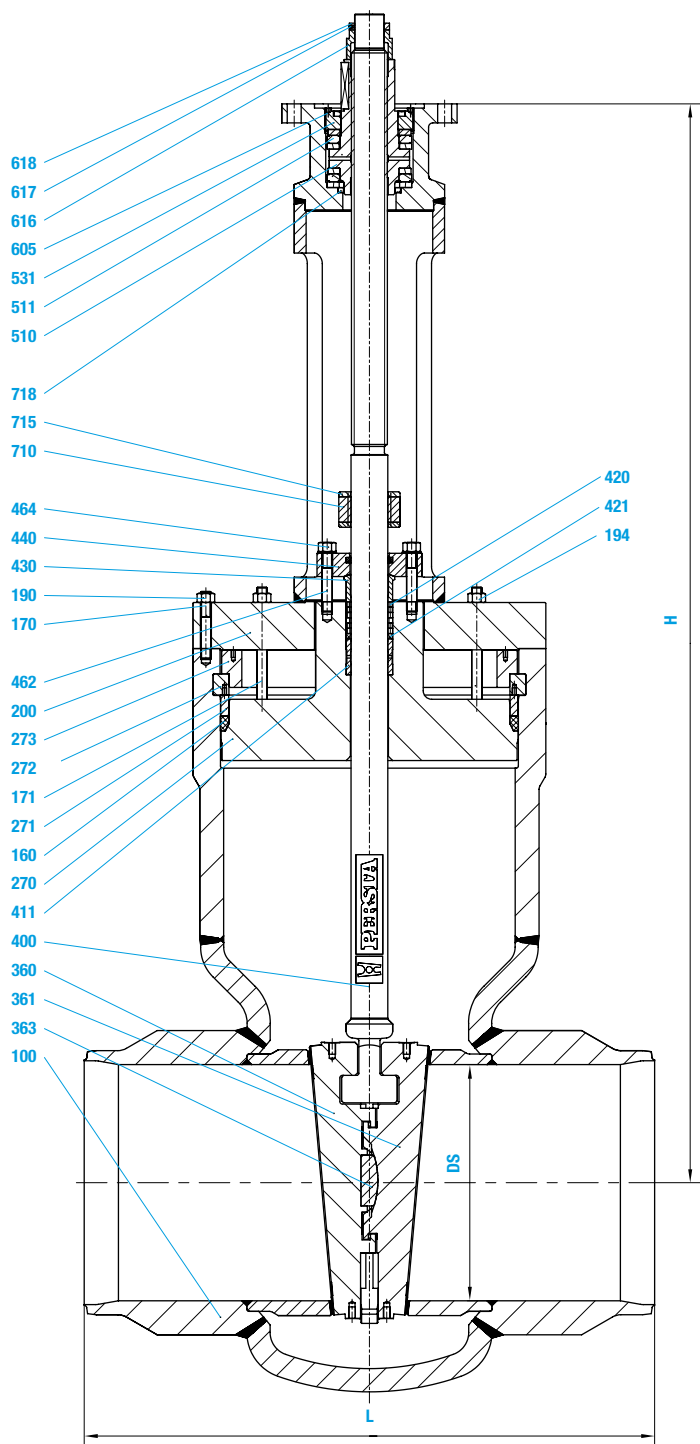
Design Highlights

- Seats and disc faced with stellite
- Non-turning, rising stem
- Gland ring and gland flange in two separate pieces
- Yoke sleeve supported by needle bearing
- Pressure sealed bonnet

Benefits

- Best possible sliding performance, minimum wear
- Minimum wear to the gland packing
- Damage to the stem by irregular tightening of gland bolts is avoided
- Minimize the expenditure of effort when operating valve
- Best possible sealing function

■ Gate valves ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 350-700



■ Gate valves ■ High pressure gate valve DSK 10 ■ 700 JT ■ PD 10 ■ DN 350-700

Materials						
Pos.	Component	1.0425 (22)	1.5415 (42)	1.7335 (44)	1.7383 (45)	1.4903 (63)
100	Body welded on with	1.0425	1.5415	1.7335	1.7383	1.4903
160	▶ Gasket	Stellite	Stellite	Stellite	Stellite	Stellite
170	Stud	Graphite	Graphite	Graphite	Graphite	Graphite
171	Stud	1.7709	1.7709	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218	1.7218
194	Hexagonal nut	1.7255	1.7218	1.7218	1.7218	1.7218
200	Bonnet	1.5415	1.5415	1.5415	1.5415	1.5415
270	Cover	1.0460	1.5415	1.7335	1.7383	1.4903
271	Ring	1.0460	1.5415	1.7335	1.7383	1.4903
272	Segmentring	1.0460	1.5415	1.7335	1.7383	1.4903
273	Cover	1.0460	1.0460	1.0460	1.0460	1.0460
360 / 361	▶ Disc welded on with	1.0460	1.5415	1.7335	1.7383	1.4903
363	▶ Pressure piece	Stellite	Stellite	Stellite	Stellite	Stellite
400	▶ Stem	1.4122	1.4122	1.4122	1.4122	1.4122
411	▶ Guide bushing	1.4021	1.4923	1.4923	1.4923	1.4923 / 1.4980
420	▶ Packing	1.8507	1.8507	1.8507	1.8507	1.8507
430	Gland ring	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.5415	1.5415	1.5415	1.5415	1.5415
462	Stud	1.0460	1.5415	1.7335	1.7383	1.7383
464	Hexagonal nut	1.7709	1.7709	1.7709	1.7709	1.7709
510	▶ Yoke sleeve	1.7218	1.7218	1.7218	1.7218	1.7218
511	▶ Bearing	CW 713 R	CW 713 R	CW 713 R	CW 713 R	CW 713 R
531	Yoke nut	WLSt	WLSt	WLSt	WLSt	WLSt
605	Key	1.7335	1.7335	1.7335	1.7335	1.7335
616	Screw pin	1.0060	1.0060	1.0060	1.0060	1.0060
617	Screw pin	1.0460	1.0460	1.0460	1.0460	1.0460
618	Hexagonal nut	45H	45H	45H	45H	45H
710	Switch bracket	St	St	St	St	St
715	Key	1.0425	1.0425	1.0425	1.0425	1.0425
718	Washer	1.4021	1.4021	1.4021	1.4021	1.4021
		1.0038	1.0038	1.0038	1.0038	1.0038
	▶ Spare parts					

Dimensions/mm				
DN	DS	L	H	Stroke
350	330	850	1730	365
400	375	950	1850	415
450	419	1050	2070	465
500	464	1150	2300	515
600	559	1350	2765	625
700	640	1550	2895	690

Weights/kg and Kvs-values		
DN	BW	Kvs (m3/h)
350	995	11243
400	1600	14521
450	2000	18105
500	2490	22353
600	4550	32188
700	5750	41773

■ Gate valves ■ High pressure gate valve DSK 26 ■ 700 JT ■ PD 25 / PD 40 ■ DN 65-300



Range of application																																					
BW-Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																			
		20	50	100	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	25	250	250	250	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																		
1.5415	25	300	300	300	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64													
1.7335	25	300	300	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									
1.7383	25	300	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							
1.6368	25	410	410	410	410	410	410	410	410	410	410	410	410	410	402	360	309	257	205	153	102																
1.4903	25	425	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	64		
1.4901	25	425	425	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	
1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations. For temperatures > 570 °C stem in 1.4980																																					

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations. For temperatures > 570 °C stem in 1.4980

Range of application																																						
BW- Version Material	PD	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																				
		20	50	100	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	40	400	400	400	400	400	377	330	295	248	200	190	181	172	162	153	135	113	93																			
1.5415	40	480	480	480	480	480	447	412	353	341	330	327	325	322	320	318	315	313	311	271	212	161	127	101														
1.7335	40	481	481	481	481	481	481	471	436	412	388	384	379	374	370	365	363	360	358	355	322	271	215	175	141	110	90	73										
1.7383	40	480	480	480	480	480	480	480	471	436	412	407	403	398	393	388	384	379	374	358	318	278	242	212	183	160	136	120	103	89	79							
1.6368	40	657	657	657	657	657	657	657	657	657	657	657	657	657	643	577	495	412	328	245	163																	
1.4903	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	669	612	596	551	506	464	421	381	341	306	271	240	212	183	160	136	120	103		
1.4901	40	680	680	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 = design temperature minus temperature surcharge acc. to DIN regulations. For temperatures > 570 °C stem in 1.4980																																						

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations. For temperatures > 570 °C stem in 1.4980

■ **Gate valves** ■ High pressure gate valve DSK 26 ■ 700 JT ■ PD 25 / PD 40 ■ DN 65-300

Standard features

- Body made of forged steel
- Disc guided in groove
- Welded seat rings
- Outside screw and yoke
- Position indicator / Switch bracket
- Pressure sealing bonnet acc. to VGB-guidelines
- Yoke sleeve supported by needle bearing
- Possibility to add an actuator

Materials

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

Further materials on request.

Pressure and temperature ratings

- Pressure rating up to 680 bar
- Temperature rating up to 650 °C

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

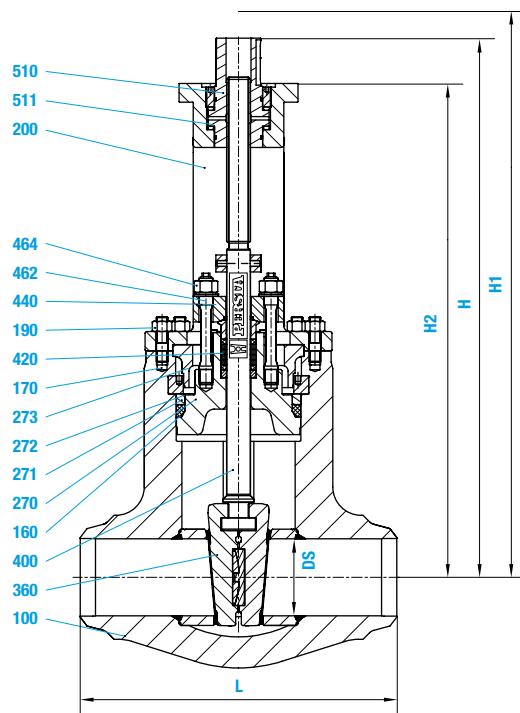
- Long bonnet
- Seats of the shut-off device and of the valve body generally faced with stellite
- Non-rising handwheel
- Non-turning, rising stem and burnished stem
- Outside located switch-bracket
- Hammer head connection between shut-off device and stem
- Gland ring and gland flange in two separate pieces
- Yoke sleeve supported at the top and at the bottom by means of needle bearings (axial type)

Benefits

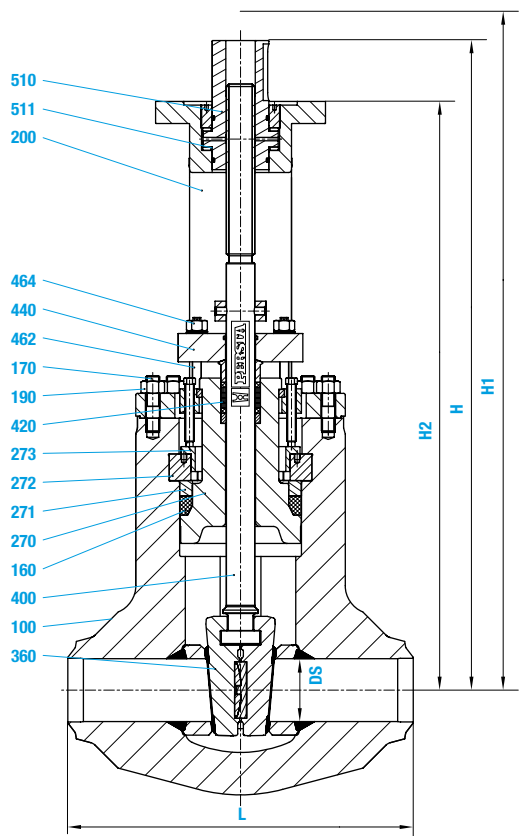
- To reduce temperatures
- Best possible sliding performance and minimum wear
- Small dimensions
- Minimum wear to the gland packing
- Protects against torsion of the stem
- The wedges are able to move parallel to the axis of the pipeline within the guiding groove. This protects the stem against bending 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 26 ■ 700 JT ■ PD 25 / PD 40 ■ DN 65-300

DSK 26 ■ PD 25 ■ DN 80-300



DSK 26 ■ PD 40 ■ DN 65-250



■ Gate valves ■ High pressure gate valve DSK 26 ■ 700 JT ■ PD 25 / PD 40 ■ DN 65-300

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	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
160	▶ Gasket	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
170	▶ Stud	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
190	Hexagonal nut	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709
200	Bonnet	1.7218	1.7218	1.7218	1.7218	1.7218	1.7218	1.7218
270	Cover	1.5419	1.5419	1.5419	1.5419	1.5419	1.5419	1.5419
271	Ring	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
272	Segmentring	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
273	Cover	1.5419	1.5419	1.5419	1.5419	1.5419	1.5419	1.5419
360	▶ Disc	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
400	welded on with	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
400	▶ Stem	1.4122	1.4122	1.4122	1.4122	1.4923	1.4923	1.4980
400	▶ Stem from 570 °C				1.4980		1.4980	
420	▶ Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.7380	1.7380	1.7380	1.7380	1.7380	1.7380	1.7380
462	Stud	1.7709	1.7709	1.7709	1.7709	1.4923	1.4923	1.4923
464	Hexagonal nut	1.7218	1.7218	1.7218	1.7218	1.4923	1.4923	1.4923
510	▶ Yoke sleeve	CW713R	CW713R	CW713R	CW713R	CW713R	CW713R	CW713R
511	▶ Bearing	WLSst	WLSst	WLSst	WLSst	WLSst	WLSst	WLSst
▶ Spare parts								

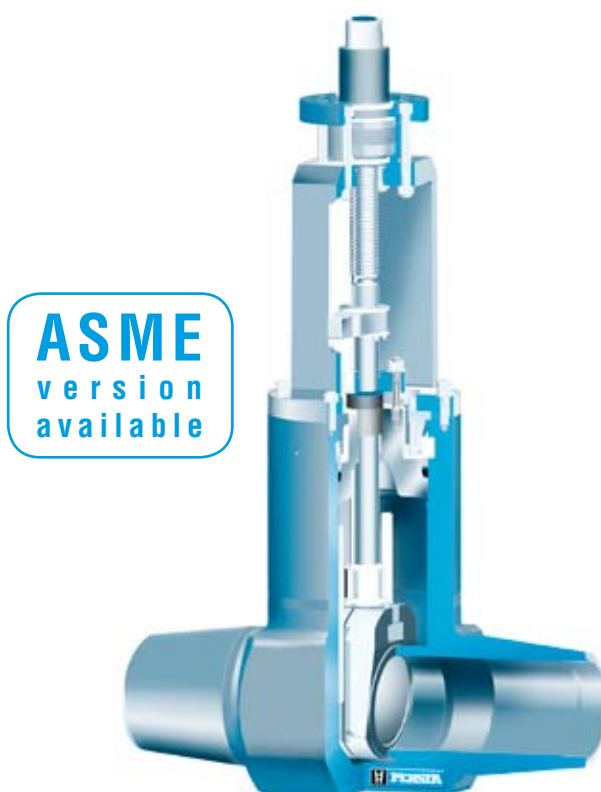
Dimensions/mm DSK 26.25									
DN	DS	L	H	H1	H2	Stroke	R/Stroke	H-Wheel	DIN/ISO 5210
80	70	305	556	605	511	80	16	400	F10 (F14)
100	90	406	658	725	606	105	18	450	F14
125	111	483	781	861	720	130	21	500	F14
150	136	559	952	1045	872	152	22		F16 (F14)
200	178	711	1078	1270	1045	192	24		F25 (F16)
250	222	864	1267	1515	1240	248	28		F30 (F25)
300	263	770 (991)	1528	1815	1497	287	29		F30

Weights/kg and Kvs-values			
DN	BW	Kvs (m ³ /h)	
80	72	505	
100	128	875	
125	208	1270	
150	380	1910	
200	615	3270	
250	1160	5080	
300	1835	7140	

Dimensions/mm DSK 26.40									
DN	DS	L	H	H1	H2	Stroke	R/Stroke	H-Wheel	DIN/ISO 5210
65	50	330	518	594	466	66	19	400	F10 (F14)
80	57	368	638	675	585	73	21	450	F14
100	72	457	713	836	656	87	15	500	F14
125	90	533	795	870	725	106	15		F16
150	111	610	1090	1230	1040	133	15		F25 (F16)
200	146	762	1195	1370	1165	174	18		F30 (F25)
250	185	1270	1475	1685	1440	212	21		F35 (F30)

Weights/kg and Kvs-values			
DN	BW	Kvs (m ³ /h)	
65	83	210	
80	136	310	
100	219	505	
125	411	835	
150	676	1485	
200	1188	2200	
250	2208	3530	

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



Range of application

BW-Version Material	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																				
	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	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	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	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	677	635	592	552	512	475	440	404	369	334	298	265	235	204	176	152	131					
1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations. Design according to working data PD 63 on request																																					

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

Materials

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

Further materials on request.

Pressure and temperature ratings

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

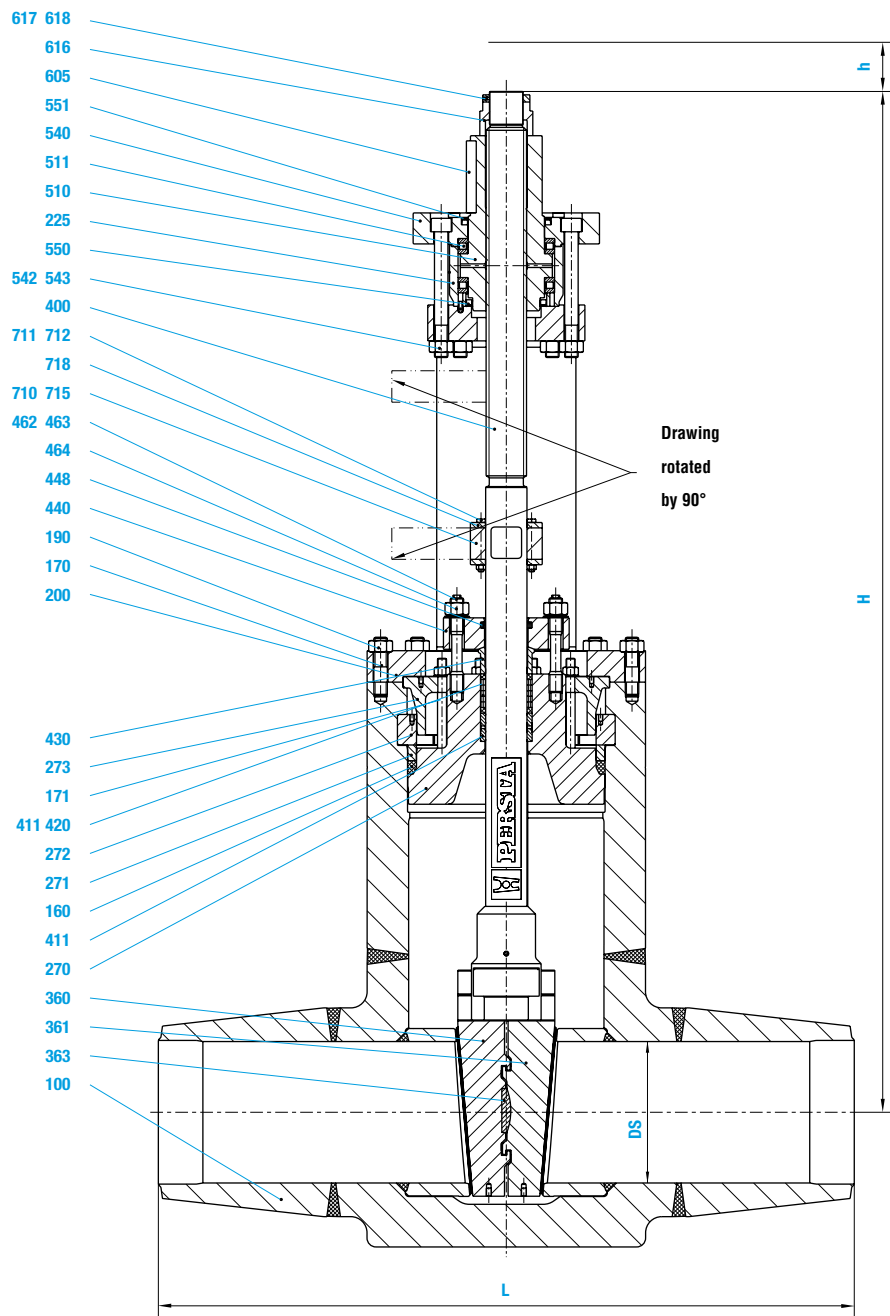
Design Highlights

- 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	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
160	▶ Gasket	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
170	▶ Stud	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
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	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
363	▶ Pressure piece	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
400	▶ Stem	1.4122	1.4122	1.4122	1.4122	1.4122	1.4122	1.4122
411	▶ Guide bushing	1.4921	1.4021	1.4923	1.4923	1.4923	1.4923	1.4980
420	▶ Packing	1.8507	1.8507	1.8507	1.8507	1.8507	1.8507	1.8507
421	▶ Ring	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
430	Gland ring	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.5415	1.5415	1.5415	1.5415	1.5415	1.5415	1.5415
448	▶ Dirt scraper	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4903
462	Stud	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
463	Washer	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709
464	Hexagonal nut	St	St	St	St	St	St	St
510	▶ Yoke sleeve	1.7218	1.7218	1.7218	1.7218	1.7218	1.7218	1.7218
511	▶ Bearing	CW 713 R	CW 713 R	CW 713 R	CW 713 R	CW 713 R	CW 713 R	CW 713 R
540	Flange	WLS	WLS	WLS	WLS	WLS	WLS	WLS
542	Headcap screw	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425
543	Hexagonal nut	8.8	8.8	8.8	8.8	8.8	8.8	8.8
550 / 551	▶ Gasket	8	8	8	8	8	8	8
605	Key	NBR	NBR	NBR	NBR	NBR	NBR	NBR
616	Screw ring	1.0060	1.0060	1.0060	1.0060	1.0060	1.0060	1.0060
617	Screw pin	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460
618	Hexagonal pipe nut	45H	45H	45H	45H	45H	45H	45H
710	Switch bracket	St	St	St	St	St	St	St
711	Hexagonal screw	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425	1.0425
712	Hexagonal nut	8.8	8.8	8.8	8.8	8.8	8.8	8.8
715	Key	8	8	8	8	8	8	8
718	Washer	1.4021	1.4021	1.4021	1.4021	1.4021	1.4021	1.4021
	▶ Spare parts	1.0038	1.0038	1.0038	1.0038	1.0038	1.0038	1.0038

Dimensions/mm, Weights/kg and Kvs-values																										
DN	DS	DSK 16				DSK 25				DSK 32				DSK 40				DSK 63				KV				
		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	(m3/h)				
65 - 200		Version DSK 26.25				Version DSK 26.25				Version DSK 26.40				Version DSK 26.40				On request				On request	4221			
225	202,5									1050	1720	240	1980													
250 / 225	202,5									1150	1720	240														
250	225,0									1150	1980	270	2300													
300 / 250	225,0									1350	1980	270														
300	270,0	Version DSK 26.25				Version DSK 26.25				1350	2195	305	3600	On request				On request				7504				
350 / 300	270,0									1550	2195	305														
350	315,0									1550	2400	350	5840									10214				
400 / 350	315,0									1750	2280	350														
400	360,0									1750	2565	410	5500									1750	2400	350		
450 / 400	360,0	1350	2320	400	3000	1750	2700	410	8200	13340																
450	405,0	1500	2320	400		1950	2565	410		1950	2700	410		On request				On request				16884				
500 / 450	405,0	1500	2485	445	3935	1950	2850	460	7700																	
500	450,0	1650	2485	445		2150	2850	460																		
600 / 500	540,0	1650	2850	495	5400	On request																20844				
600	540,0	On request																				30015				

■ Gate valves ■ Over-pressure-safety devices

If a closed gate valve filled with a medium (e.g. water) (fig. 1) is heated, an unacceptably high pressure may develop inside the body. The level of increase in pressure that may occur depends upon the percentage volumes of the fluid and vapour phases and on the increase in the temperature of the medium. Overpressure inside the body can adversely affect the operation of the gate valve. Moreover an unacceptably high pressure load can result in the failure of the pressure-retaining components.

Figure 2 shows the increase of pressure according to percentage volume and temperature changes, when water is in the body.

Attention: If there is a possibility of an unacceptable pressure load of this kind developing inside the valve because of the way it has been fitted or the way it is used, the piping designer or operator must provide a suitable safety device.

Simple and effective protection against overpressure can be achieved by means of a hole in the seat ring or in the wedge on the side facing the pressure (Fig. 4). This hole prevents the pressure inside the body from exceeding the operating pressure; however, the gate valve can then only provide a seal in one direction. If this is the case, the direction of flow is shown by an arrow on the body. Another possibility is an equalizing pipe connection to the third room (Fig. 5) with the pressurized side.

In case an outside overpressure safety device should be assigned body has to be ordered with an appropriate closed stud (Fig. 1 and 3).

Fig. 6 includes a pressure equalizing pipe to reduce the opening torque with differential pressure, this configuration also enables the „3rd chamber“ to be relieved to the high pressure side. Bi-directional flow characteristics are achievable with this design.

Fig. 1

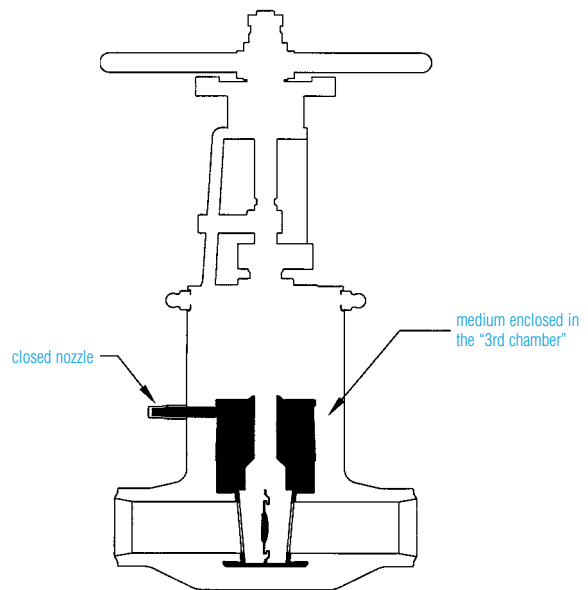


Fig. 2

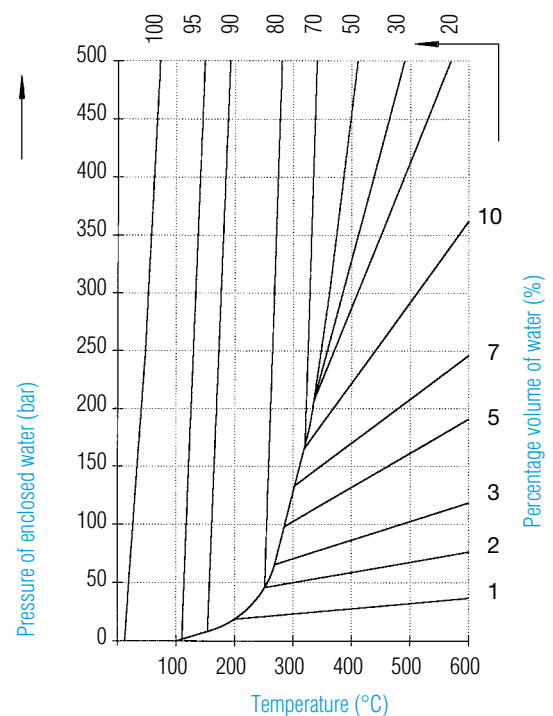


Fig. 3: With safety valve

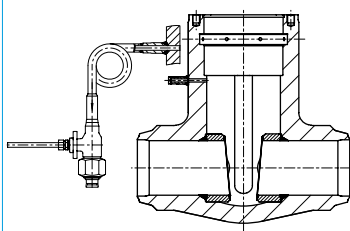


Fig. 4: With hole in the disc or seating

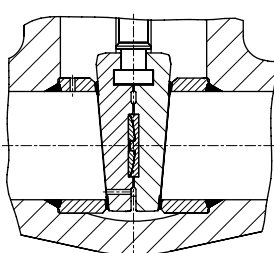


Fig. 5: With equalizing pipe to the 3rd chamber

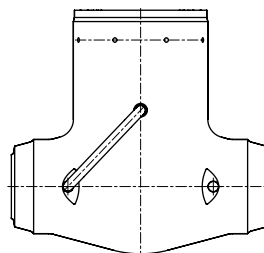
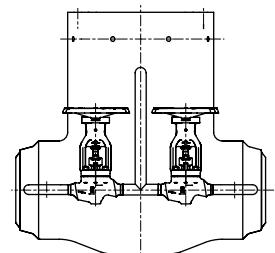
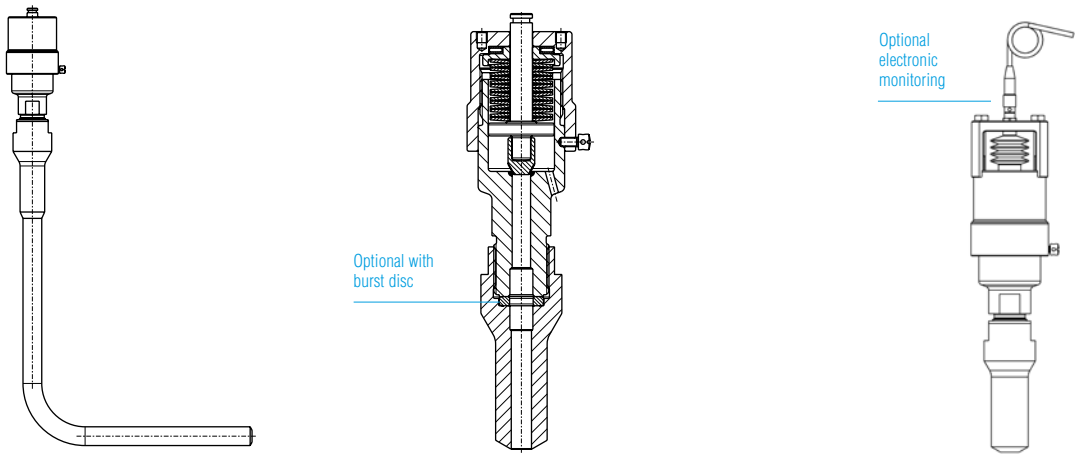


Fig. 6: With equalizing pipe and bypass valves

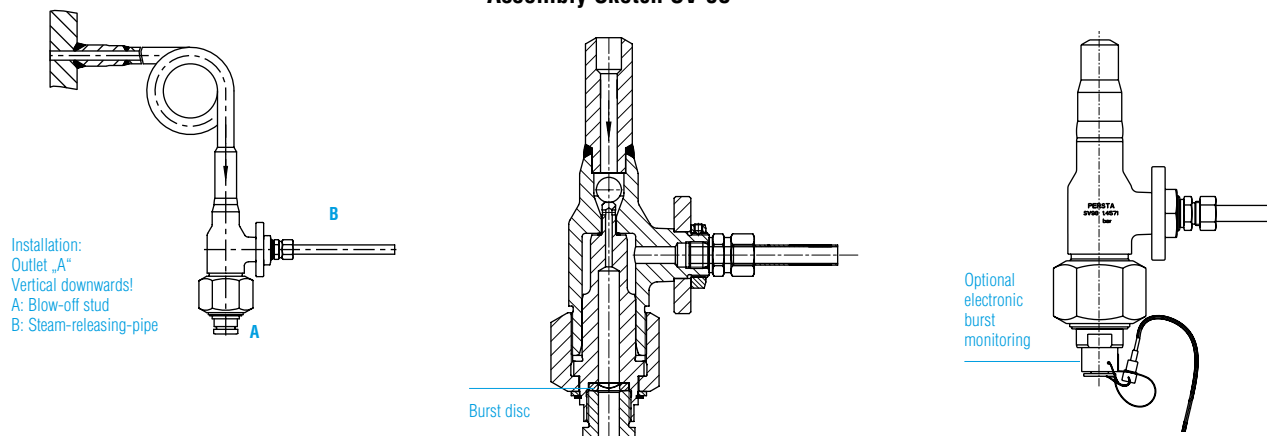


■ Gate valves ■ Over-pressure-safety devices ■ PERSTA Type SV 97 / SV 98 / SV 99

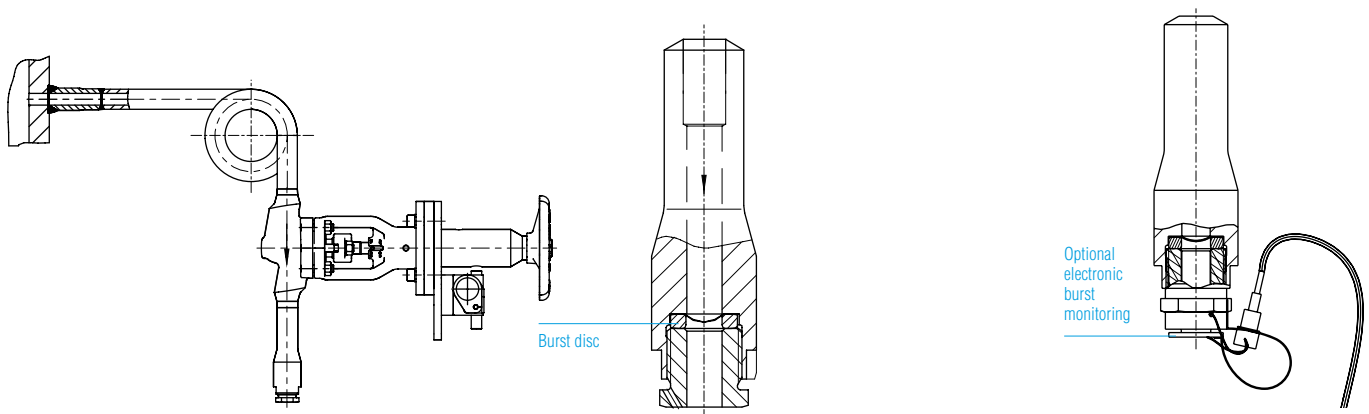
Assembly Sketch SV 97



Assembly Sketch SV 98

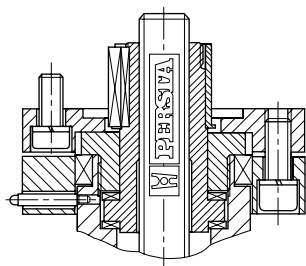


Assembly Sketch SV 99 with lockable high pressure globe valve

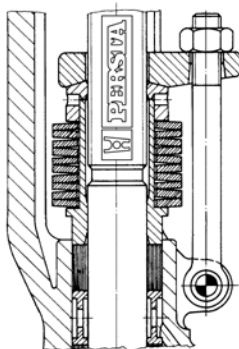


■ Gate valves ■ Variants

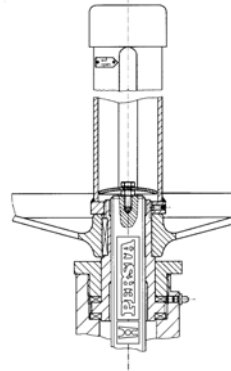
Universal valve head for mounting actuators



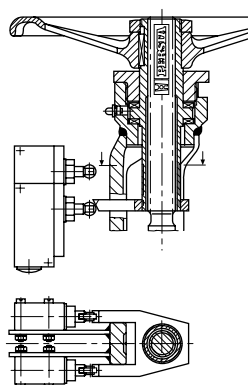
Stuffing box with central plate-spring tightening



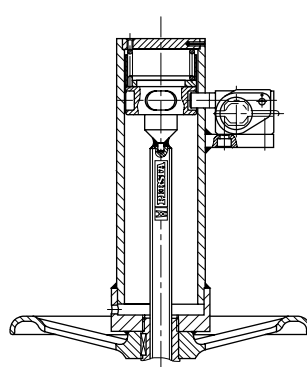
Position indicator / Stem protection cap



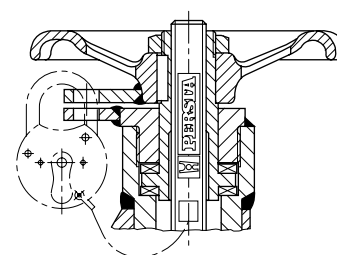
Limit switch actuation



PERLOC-system locking device

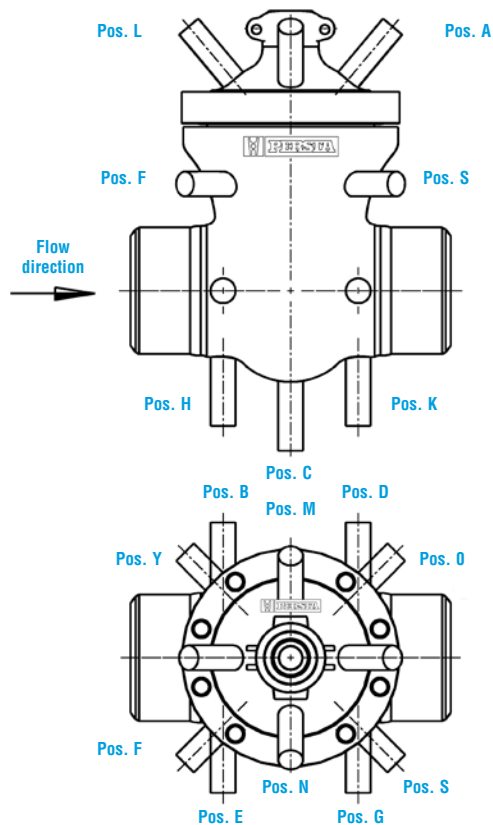
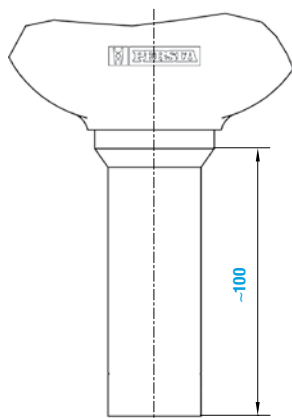


Interlocking device

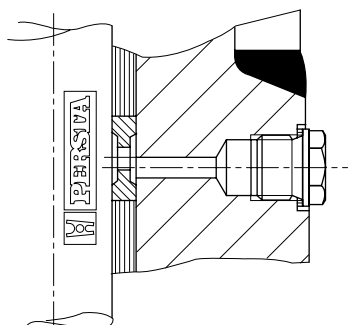


■ Gate valves ■ Variants

**Drainage stud,
variable position**



**Water gland ring /
leakage suction**



Stuffing box extrusion

