

- 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	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.

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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

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

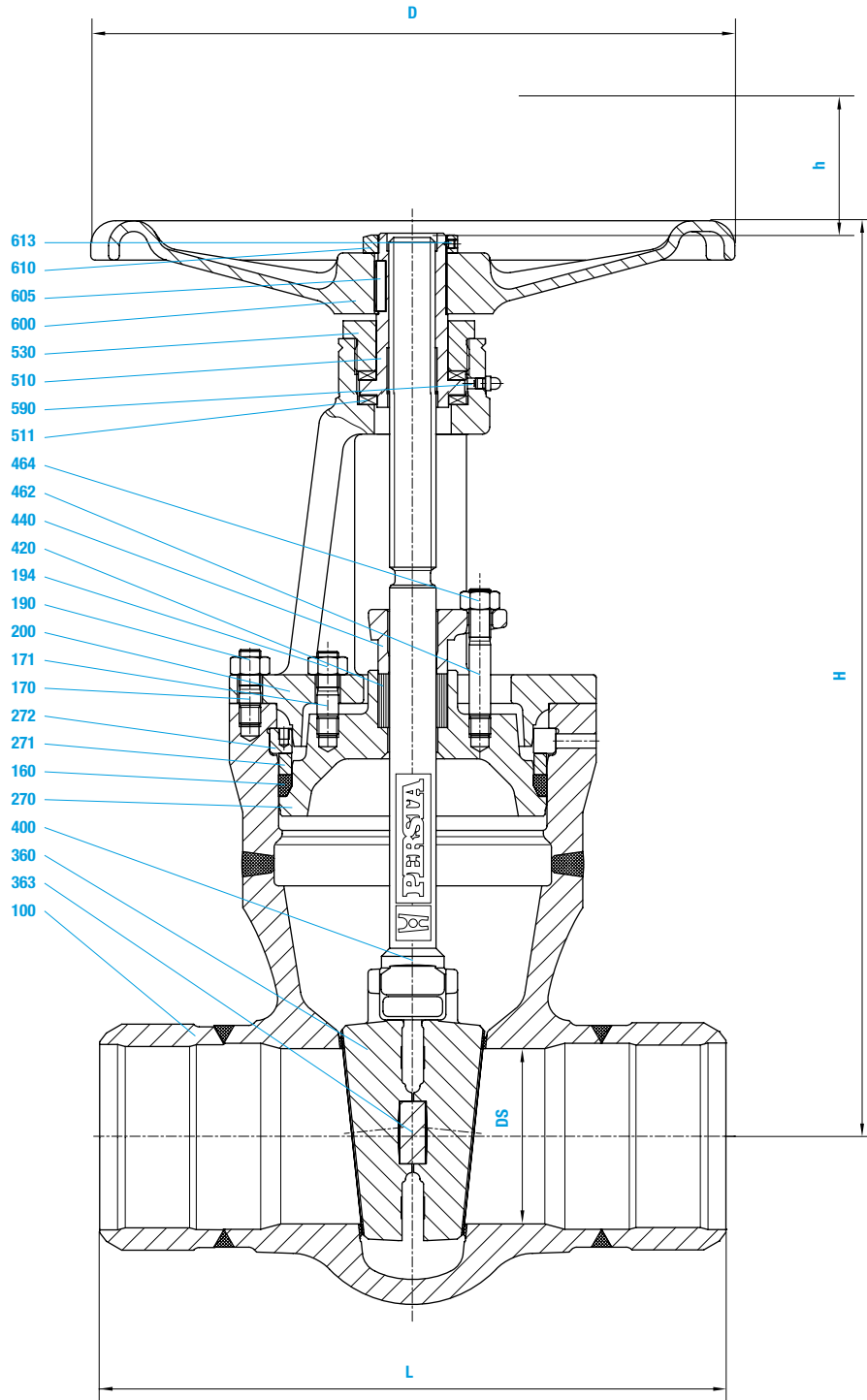
Design Highlights

- Die-forged 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

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Materials					
Pos.	Component	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body welded on with	1.0460 Cr17	1.5415 Stellite	1.7335 Stellite	1.7383 Stellite
160	▶ Gasket	Graphite	Graphite	Graphite	Graphite
170	▶ Stud	1.7709	1.7719	1.7709	1.7709
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) 1.4021	Stellite 1.4021	Stellite 1.4021	Stellite 1.4021
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
462	▶ Stud	1.7709	1.7709	1.7709	1.7709
464	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
510	▶ Yoke sleeve	1.0718	1.0718	1.0718	1.0718
511	▶ Roller bearing	WLS	WLS	WLS	WLS
530	Screwing	1.0718	1.0718	1.0718	1.0718
590	Grease nipple	5.8	5.8	5.8	5.8
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

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