

- High pressure gate valve ▪ 700 JT ▪ DSK 27
- Class 900-4500 ▪ (PN 100-720) ▪ NPS 2 ½ - 24 ▪ (DN 65-600)



- High pressure gate valve ▪ 700 JT ▪ DSK 27
- Class 900-4500 ▪ (PN 100-720) ▪ NPS 2 1/2 - 24 ▪ (DN 65-600)

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

- Up to standard class or special class 4500

Materials

- A 105
- A 182 F12 Cl.2
- A 182 F22 Cl.3
- A 182 F91
- A 182 F92

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

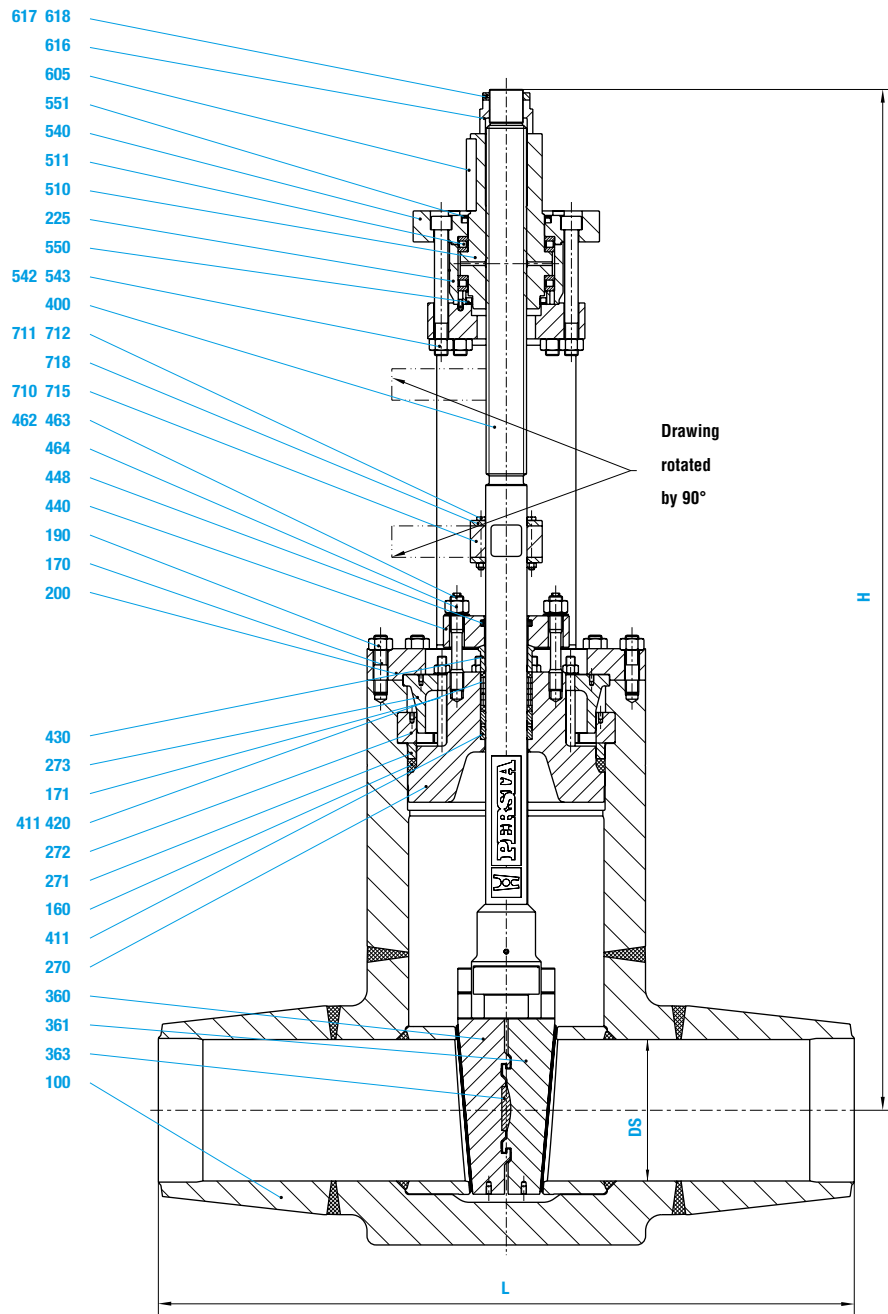
Design Highlights

- 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

- High pressure gate valve ▪ 700 JT ▪ DSK 27
- Class 900-4500 ▪ (PN 100-720) ▪ NPS 2 ½ - 24 ▪ (DN 65-600)



- High pressure gate valve ▪ 700 JT ▪ DSK 27
- Class 900-4500 ▪ (PN 100-720) ▪ NPS 2 1/2 - 24 ▪ (DN 65-600)

Materials						
Pos.	Component	A 105 (B1)	A 182 F12 (D4)	A 182 F22 (D5)	A 182 F91 (F3)	A 182 F92 (F6)
100	Body welded on with	A 105	A 182 F12 Cl.2	A 182 F22 Cl.3	A 182 F91	A 182 F92
160	▶ Gasket	Stellite	Stellite	Stellite	Stellite	Stellite
170	Stud	Graphite	Graphite	Graphite	Graphite	Graphite
171	Stud	A 193 B7	A 193 B7	A 193 B7	A 193 B16	A 193 B16
190	Hexagonal nut	A 193 B7	A 193 B7	A 193 B7	A 193 B16	A 193 B16
200	Bonnet	A 194 2H	A 194 2H	A 194 2H	A 194 4	A 194 4
225	Yoke head	1.5415	1.5415	1.5415	1.5415	1.5415
270	Cover	A 105	A 105	A 105	A 105	A 105
271	Ring	A 105	A 182 F12 Cl.2	A 182 F22 Cl.3	A 182 F91	A 182 F92
272	Segmentring	A 105	A 182 F12 Cl.2	A 182 F22 Cl.3	A 182 F91	A 182 F92
273	Cover	A 105	A 182 F12 Cl.2	A 182 F22 Cl.3	A 182 F91	A 182 F92
360 / 361	▶ Disc welded on with	A 105	A 182 F12 Cl.2	A 182 F22 Cl.3	A 182 F91	A 182 F92
363	▶ Pressure piece	Stellite	Stellite	Stellite	Stellite	Stellite
400	▶ Stem	1.4122	1.4122	1.4122	1.4122	1.4122
411	▶ Guide bushing	1.4921	1.4923	1.4923	1.4923	1.4980
420	▶ Packing	1.8507	1.8507	1.8507	1.8507	1.8507
421	▶ Ring	Graphite	Graphite	Graphite	Graphite	Graphite
430	Gland ring	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.5415	1.5415	1.5415	1.5415	1.5415
448	▶ Dirt scraper	A 105	A 182 F12 Cl.2	A 182 F22 Cl.3	A 182 F91	A 182 F91
462	Stud	Graphite	Graphite	Graphite	Graphite	Graphite
463	Washer	A 193 B7	A 193 B7	A 193 B7	A 193 B16	A 453 Grade 660
464	Hexagonal nut	St	St	St	St	St
510	▶ Yoke sleeve	A 194 2H	A 194 2H	A 194 2H	A 194 4	A 453 Grade 660
511	▶ Bearing	CW 713 R	CW 713 R	CW 713 R	CW 713 R	CW 713 R
540	Flange	WLS	WLS	WLS	WLS	WLS
542	Headcap screw	1.0425	1.0425	1.0425	1.0425	1.0425
543	Hexagonal nut	8.8	8.8	8.8	8.8	8.8
550 / 551	▶ Gasket	8	8	8	8	8
605	Key	NBR	NBR	NBR	NBR	NBR
616	Screw ring	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 pipe nut	45H	45H	45H	45H	45H
710	Switch bracket	St	St	St	St	St
711	Hexagonal screw	1.0425	1.0425	1.0425	1.0425	1.0425
712	Hexagonal nut	8.8	8.8	8.8	8.8	8.8
715	Key	8	8	8	8	8
718	Washer	1.4021	1.4021	1.4021	1.4021	1.4021
	▶ Spare parts	1.0038	1.0038	1.0038	1.0038	1.0038

Dimensions / Weights / Flow coefficients										
Class 900			BW		H (closed)		stroke		Weight	
NPS	DN	DS	L				lb	kg	Cv	Kv
14	350	315	53.1	1200.0	84.3	2140.0	13.8	350.0	4916.3	2230.0
16	400	360	53.1	1350.0	91.3	2320.0	15.7	400.0	6613.9	3000.0
18	450	405	59.1	1500.0	97.8	2485.0	17.5	445.0	8675.2	3935.0
20	500	450	65.0	1650.0	112.2	2850.0	19.5	495.0	11904.9	5400.0
22	550	495	on request							
24	600	540	on request							

Black in inches, lb, Us gal/min. Blue in mm, kg, m³/h.

Dimensions / Weights / Flow coefficients										
Class 1500			BW		H (closed)		stroke		Weight	
NPS	DN	DS	L				lb	kg	Cv	Kv
14	350	315	61.0	1550.0	89.8	2280.0	13.8	350.0	8267.3	3750.0
16	400	360	68.9	1750.0	101.0	2565.0	16.1	410.0	12125.4	5500.0
18	450	405	76.8	1950.0	112.2	2850.0	18.1	460.0	16975.6	7700.0
20	500	450	on request							
22	550	495	on request							
24	600	540	on request							

Black in inches, lb, Us gal/min. Blue in mm, kg, m³/h.

Class 2500 and above on request. Intermediate class on request. Larger sizes on request