▪ Gate valve ▪ 700 HJ / JJ ▪ S 2000
▪ Class 600 ▪ (PN 100) ▪ NPS 2 - 6 ▪ (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 NPS 2 1/2 and NPS 5
- 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

- Up to standard or special class 600

Materials

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

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

- 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 NPS 2 1/2 and NPS 5
- 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 existance 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

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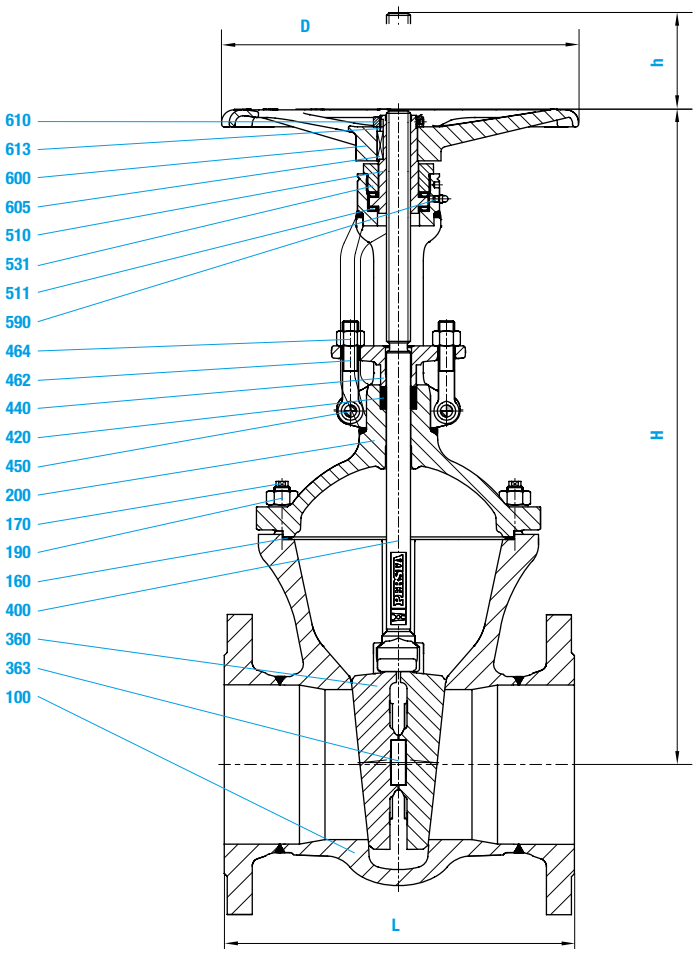
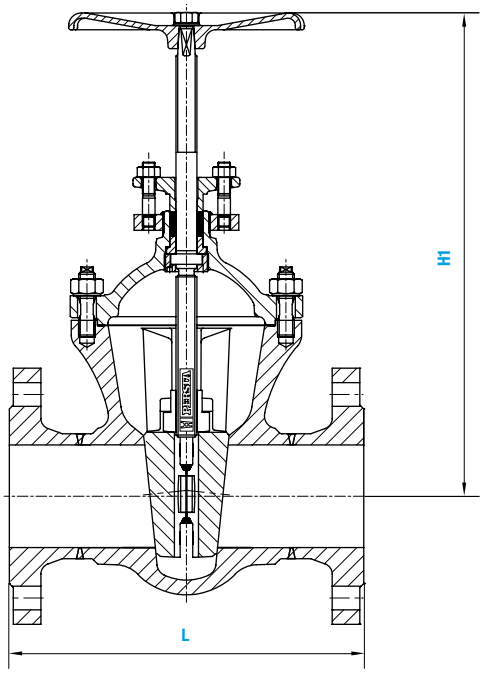
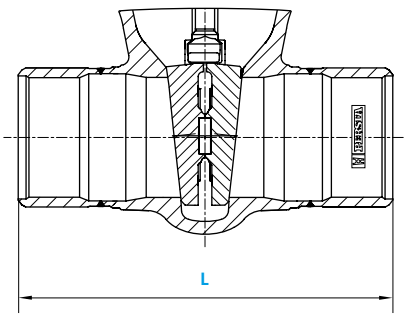


700 GA





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Materials

Pos.	Component	A 105 (B1)	A 182 F12 (D4)	A 182 F22 (D5)
100	Body	A 105 [1]	A 182 F12 Cl.2 [2]	A 182 F22 Cl.3 [2]
160	▸ Gasket	Graphite [4]	Graphite [4]	Graphite [4]
170	Stud	A 193 B7	A 193 B7	A 193 B7
190	Hexagonal nut	A 193 2H	A 194 2H	A 194 2H
200	Bonnet	1.0460	A 182 F12 Cl.2	A 193 B7
360	▸ Disc	A 105 [3]	A 182 F12 Cl.2 [2]	A 182 F22 Cl.3
363	Pressure piece	1.4021	1.4021	A 182 F22 Cl.3 [2]
400	▸ Stem	1.4021	1.4122	1.4122
420	▸ Packing	Graphite	Graphite	Graphite
440	Gland flange	1.0460	1.0460	1.0460
450	Grooved pin	St	St	St
462	Eye bolt	1.1181	A 193 B7	A 193 B7
464	Hexagonal nut	1.1181	A 194 2H	A 194 2H
510	▸ Yoke sleeve	1.0718	1.0718	1.0718
511	▸ Bearing	WLSt	WLSt	WLSt
531	Screwing	1.0718	1.0718	1.0718
590	Grease nipple	5.8	5.8	5.8
600	Handwheel	5.3106	5.3106	5.3106
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 Cr17
2) Welded on with Stellite
3) Welded on with 18/8
4) DN 150 grooved with graphite layer

Dimensions

NPS	DN	BW L		RF L1		H (closed)		H1 (open)		rotation/ stroke	D	
2	50	11.5	292.1	11.5	292.1	13.3	337.0	15.8	400.0	15	7.1	180.0
2 1/2	65/50	13.0	330.2	13.0	330.2	13.3	337.0	15.8	400.0	15	7.1	180.0
3	80	14.0	355.6	14.0	355.6	16.1	410.0	19.7	500.0	22	8.9	225.0
4	100	17.0	431.8	17.0	431.8	19.9	505.0	24.2	615.0	22	14.2	360.0
5	125/100	20.0	508.0	20.0	508.0	19.9	505.0	24.2	615.0	22	14.2	360.0
6	150	22.0	558.8	22.0	558.8	27.0	685.0	33.5	850.0	27.5	14.2	360.0

Black in inches, lb, Us gal/min. Blue in mm, kg, m^3/h.

Weight / Flow Coefficient

NPS	DN	BW lb	BW kg	RF lb	RF kg	Flow Coefficient Cv	Flow Coefficient Kv
2	50	34.2	15.5	58.4	26.5	304	258
2 1/2	65/50	35.3	16.0	67.2	30.5	304	258
3	80	68.3	31.0	99.2	45.0	739	628
4	100	103.6	47.0	156.5	71.0	1166	991
5	125/100	108.0	49.0	196.2	89.0	1166	991
6	150	220.5	100.0	341.7	155.0	2733	2323

Black in inches, lb, Us gal/min. Blue in mm, kg, m^3/h.