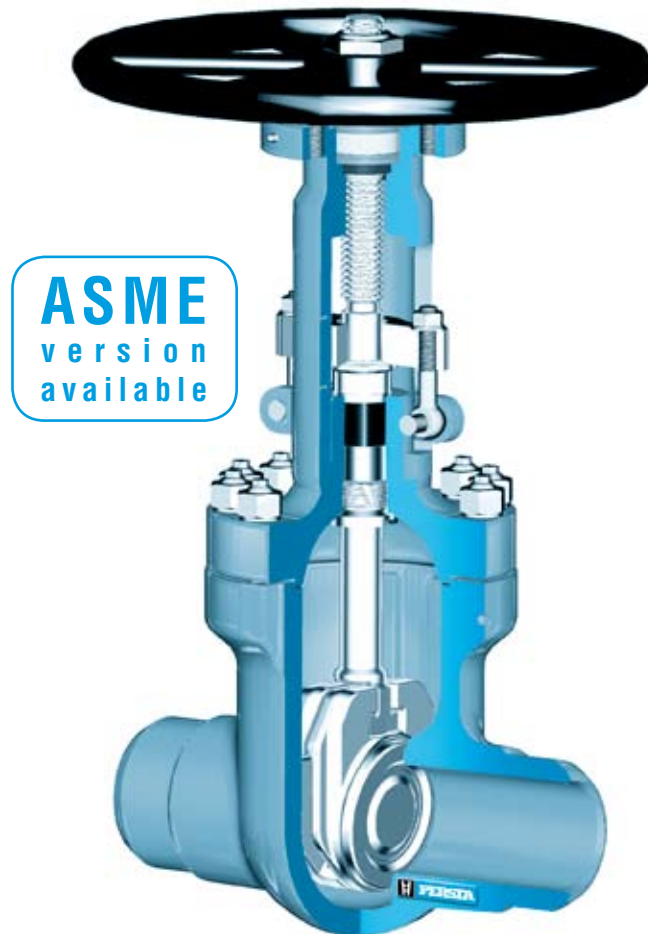


▪ Gate valves ▪ Gate valve ▪ 700 JJ ▪ PN 160 / PD 18 ▪ DN 50-300/250



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	510	520	530	540	550	560	570	580	590	600	
1.5415	18	258	246	229	219	204	185	170	146	141	136	134	133	132	130	129	128	112	88	67	53	42								
1.7335	18	258	249	234	228	219	205	194	180	170	161	156	155	153	150	149	148	147	133	112	89	72	58	46	37	30				
1.7383	18	258	250	239	233	224	210	205	194	180	170	166	164	162	159	156	155	153	131	115	100	88	76	66	56	50	43	37	33	

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

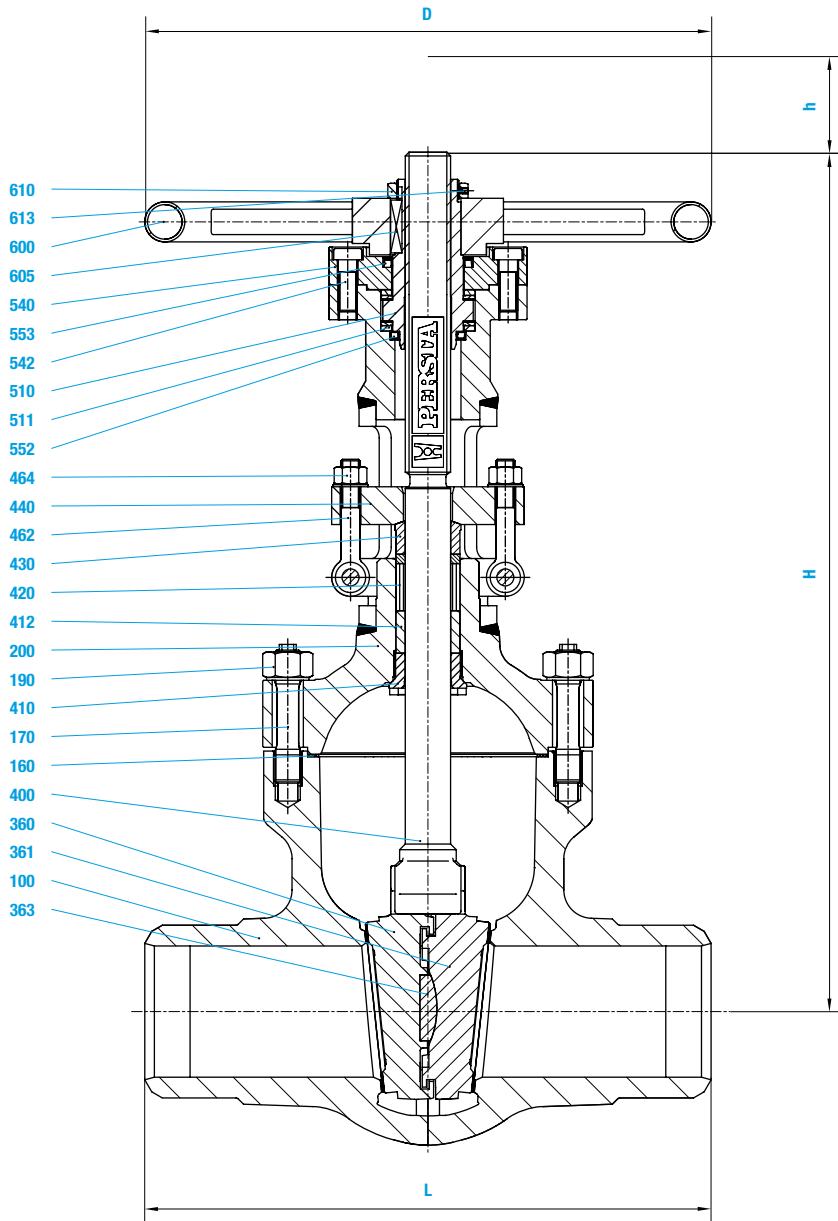
Design Highlights

- 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

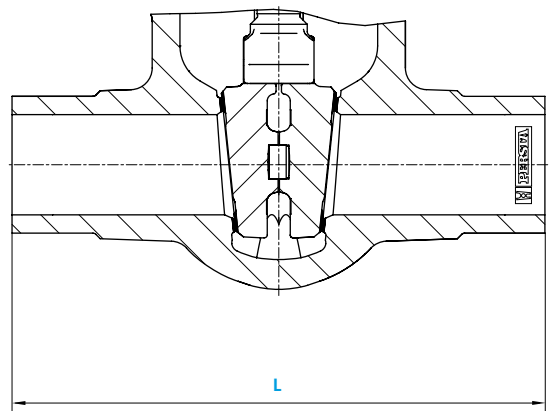
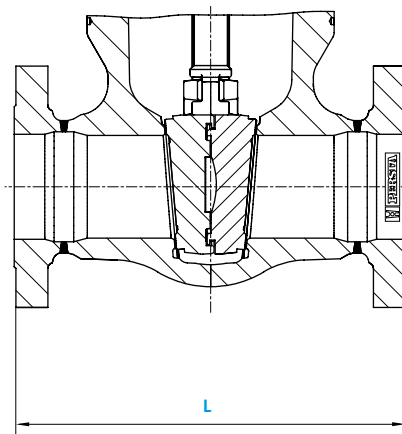
Benefits

- 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	Body	1.5415 ¹⁾	1.7383/1.7335 ¹⁾	1.7383 ¹⁾
160	▶ Gasket	Grooved with graphite layer	Grooved with graphite layer	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	WLS1	WLS1	WLS1
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