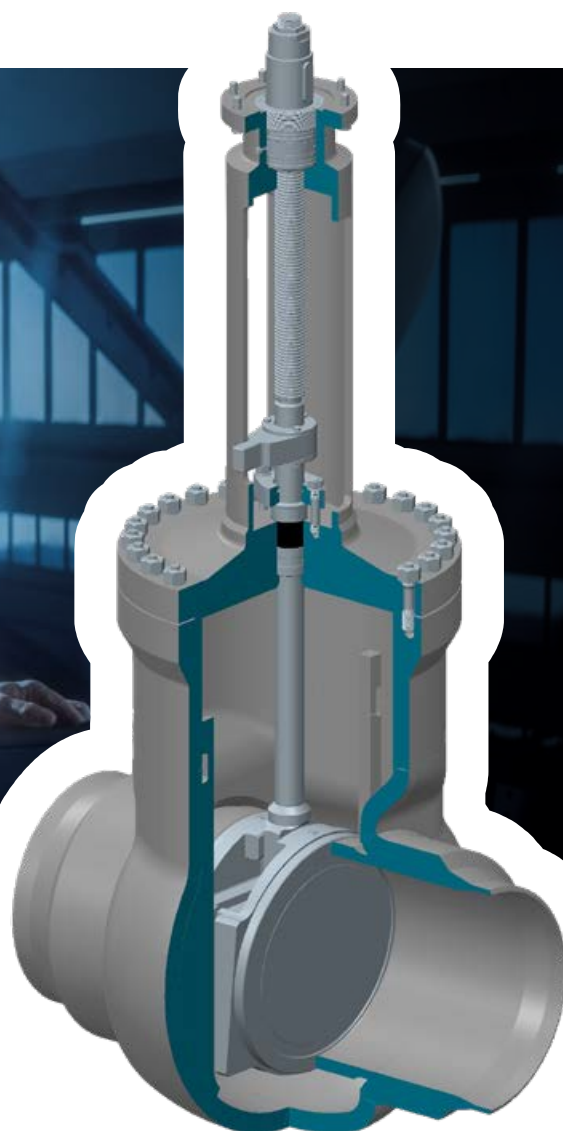




GATE VALVE

400 JJ PN 63-100 DN 350-700

Design highlights

- Seat armoured with Stellite
- Non-rotating, rising stem
- Gland in two separate pieces
- Needle bearing yoke sleeve

Advantages

- Lasting effective impermeability in closed position
- Minimum packing wear
- Avoids stem damage due to uneven tightening of packing bolts
- Reduced force needed to open or close the valve

Version

- Split wedge design
- External stem thread
- Suitable for mounting electric actuators

Operating data

- Operating pressure up to 100 bar
- Operating temperature up to 600 °C

Materials

- 1.0425
- 1.5415
- 1.7335
- 1.7383

Other materials available on request.

Flow medium

Depending on the choice of materials, the high pressure line blind valves can be used for water, steam, gas, oil or other non-aggressive media.

Applications

In chemical, industrial and power plants.

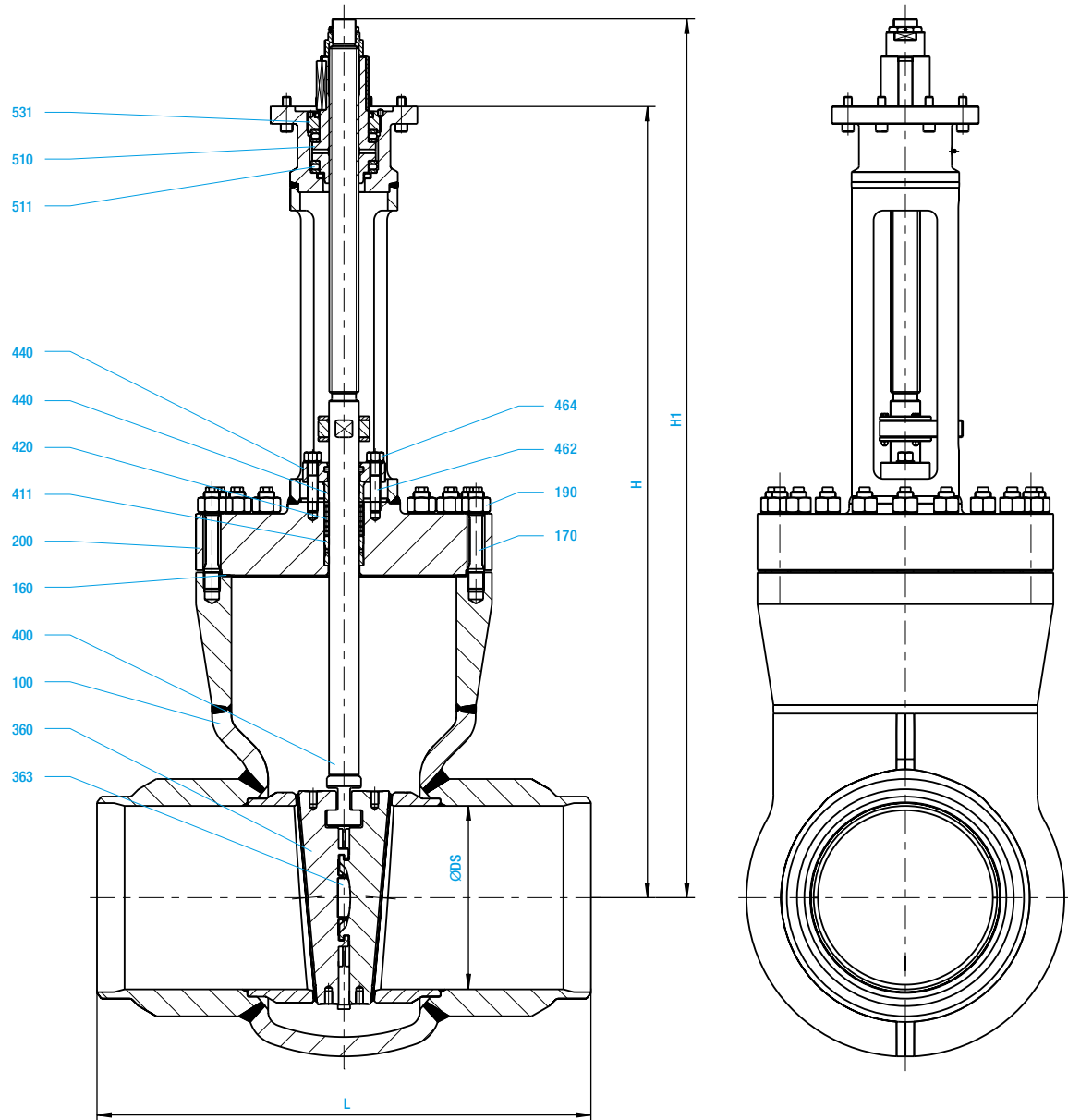
Area of application

Permissible operating pressure [bar(g)] at calculation 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	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	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	63	61	58	56	53	51	47	40	32	25	20	16	13	10			
	100	100	100	100	100	100	100	100	95	91	87	82	80	74	62	49	38	31	24	19	16			
1.7383 ²⁾	63	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	100	98	96	94	85	82	74	62	53	43	39	33	27	23	19	17	15

1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.

2) For temperatures > 570 °C, stem material 1.4980, seat armoured with Stellite, and high-temperature packing.



Materials

Item	Designation	1.0425 (22)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body	1.0425	1.5415	1.7335	1.7383
	Body seat	Stellite	Stellite	Stellite	Stellite
160	Gasket	Graphite	Graphite	Graphite	Graphite
170	Bolt	1.7709	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
200	Bonnet	1.0460	1.5415	1.7335	1.7383
360	Disc	1.7383	1.7383	1.7383	1.7383
	Disc seat	Stellite	Stellite	Stellite	Stellite
363	Pressure piece	1.4122	1.4122	1.4122	1.4122
400	Stem	1.4021	1.4122	1.4122	1.4122
411	Guide sleeve	1.8507	1.8507	1.8507	1.8507
420	Packing	Graphite	Graphite	Graphite	Graphite
430	Gland	1.5415	1.5415	1.5415	1.5415
440	Gland flange	1.5415	1.5415	1.7383	1.7383
462	Bolt	1.7709	1.7709	1.7709	1.7709
464	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
510	Yoke sleeve	CW 713 R	CW 713 R	CW 713 R	CW 713 R
511	Anti-friction bearing	WLSi	WLSi	WLSi	WLSi
531	Threaded connection	1.7335	1.7335	1.7335	1.7335

Spare parts

Dimensions/mm

DN	ØDS	L	H	H1	Stroke length	Rev/stroke	DIN/ISO 5210
350	330	850	1485	1625	365	46	F16
400	375	950	1595	1796	415	46	F16
450	419	1050	1748	1930	455	47	F25
500	464	1150	2010	2203	515	52	F25
600	559	1350	2300	2524	625	52	F30
700	640	1550	2550	2756	690	58	F30

Weights/kg and Kvs value m³/h

DN	Butt-weld ends	Kvs [m³/h]
350	932	11243
400	1293	14521
450	1657	18105
500	2427	22353
600	3700	32188
700	5057	41773