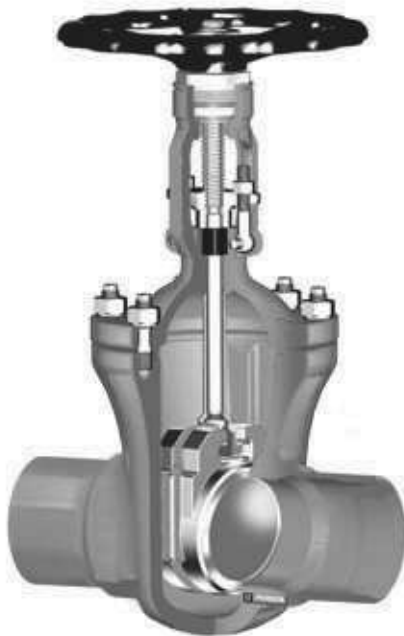


▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ (GA ▪ PN 10-40) ▪ PN 10-100 ▪ DN 50-150



Pressure rate table acc. DIN 2401

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-60	-10	20	120	150	200	250	300	350	400	425	450	475	500	510	520	530	540	550	
1.0619	16	16,0	16,0	16,0	15,0	14,0	13,0	11,0	10,0	8,0											
	25	25,0	25,0	25,0	23,0	22,0	20,0	17,0	16,0	13,0											
	40	40,0	40,0	40,0	37,0	35,0	32,0	28,0	24,0	21,0											
1.0460	10 ²⁾	10,0	10,0	10,0	9,6	8,8	8,1	6,9	6,3	5,0											
	16	16,0	16,0	16,0	15,3	14,0	13,0	11,0	10,0	8,0											
	25	25,0	25,0	25,0	23,9	22,0	20,0	17,0	16,0	13,0											
	40	40,0	40,0	40,0	38,1	35,0	32,0	28,0	24,0	21,0											
	63	63,0	63,0	63,0	58,1	50,0	45,0	40,0	36,0	32,0											
100	100,0	100,0	100,0	92,5	80,0	70,0	60,0	56,0	50,0												
1.0566 ^{3,4)}	10 ²⁾	10,0	10,0	10,0	10,0	9,0	8,0	7,0													
	16 ²⁾	16,0	16,0	16,0	16,0	15,0	14,0	13,0	11,0												
	25 ²⁾	25,0	25,0	25,0	25,0	24,0	22,0	20,0	17,0												
	40 ²⁾	40,0	40,0	40,0	40,0	39,0	35,0	31,0	28,0												
	63 ²⁾	63,0	63,0	63,0	63,0	61,0	55,0	49,0	44,0												
	100 ²⁾	100,0	100,0	100,0	100,0	96,0	88,0	79,0	70,0												
1.5415	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	8,8	8,0	7,6	7,2	6,8									
	16 ²⁾	16,0	16,0	16,0	16,0	16,0	16,0	14,1	12,8	12,2	11,5	10,9									
	25	25,0	25,0	25,0	25,0	25,0	25,0	22,0	20,0	19,0	18,0	17,0									
	40	40,0	40,0	40,0	40,0	40,0	40,0	35,0	31,0	30,0	29,0	28,0									
	63	63,0	63,0	63,0	63,0	63,0	63,0	56,0	50,0	47,0	46,0	45,0									
	100	100,0	100,0	100,0	100,0	100,0	100,0	87,0	78,0	74,0	72,0	70,0									
1.7335	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	9,6	9,2	8,8	8,4	8,0	7,2	6,0	4,8	3,6					
	16 ²⁾	16,0	16,0	16,0	16,0	16,0	16,0	15,4	14,7	14,1	13,4	12,8	11,5	9,6	7,7	5,8					
	25	25,0	25,0	25,0	25,0	25,0	25,0	24,0	23,0	22,0	21,0	20,0	18,0	15,0	12,0	9,0					
	40	40,0	40,0	40,0	40,0	40,0	40,0	38,0	36,0	35,0	34,0	33,0	29,0	24,0	19,0	15,0					
	63	63,0	63,0	63,0	63,0	63,0	63,0	61,0	58,0	57,0	56,0	53,0	47,0	40,0	32,0	25,0					
	100	100,0	100,0	100,0	100,0	100,0	100,0	95,0	91,0	89,0	87,0	82,0	74,0	62,0	49,0	38,0					
1.7383	10 ²⁾	10,0	10,0	10,0	10,0	10,0	10,0	9,5	9,1	8,9	8,7	8,3	7,4	6,3	5,0	4,4	3,8	3,3			
	16 ²⁾	16,0	16,0	16,0	16,0	16,0	16,0	15,2	14,6	14,2	13,9	13,2	11,8	10,0	7,9	7,0	6,0	5,2			
	25 ²⁾	25,0	25,0	25,0	25,0	25,0	25,0	23,8	22,8	22,3	21,8	20,6	18,4	15,6	12,4	10,9	9,4	8,1			
	40 ²⁾	40,0	40,0	40,0	40,0	40,0	40,0	38,0	36,4	35,6	34,8	33,0	29,5	25,0	19,8	17,4	15,1	13,0			
	63 ²⁾	63,0	63,0	63,0	63,0	63,0	63,0	60,8	58,2	57,0	55,7	52,8	47,2	40,0	31,7	27,8	24,2	20,8			
	100 ²⁾	100,0	100,0	100,0	100,0	100,0	100,0	95,0	91,0	89,0	87,0	82,5	73,8	62,5	49,5	43,5	37,8	32,5			

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) Pressure rating not applicable in design code

3) In case of stainless steel bolts (DIN material code A4-70) with > 8 x d bolt length the strength characteristics acc. to table 6 of DIN 267 part 11 have been considered.

4) At temperature > 50 °C only applicable for short time service.

■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150

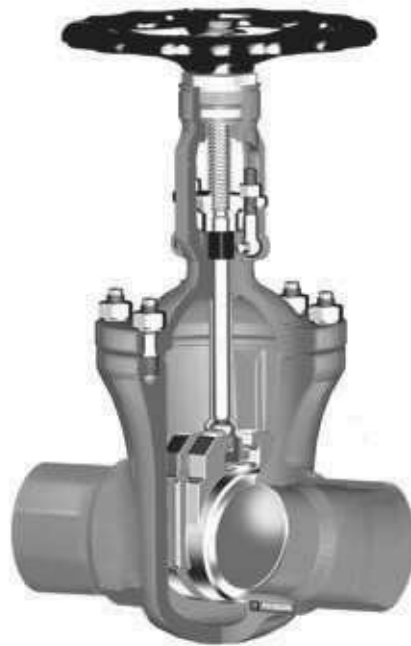


Pressure rate table acc. DIN EN 1092-1

Material	PN	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																											
		-10	20	50	100	150	200	250	300	350	400	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600		
1.0619	16	160	160	160	148	140	133	121	110	102	95	52																	
	25	250	250	250	232	220	208	190	172	160	148	82																	
	40	400	400	400	371	352	333	304	276	257	238	131																	
1.0460	10	100	100	100	92	88	83	76	69	64	59	32																	
	16	160	160	160	148	140	133	121	110	102	95	52																	
	25	250	250	250	232	220	208	190	172	160	148	82																	
	40	400	400	400	371	352	333	304	276	257	238	131																	
	63	630	630	630	585	555	525	480	435	405	375	207																	
100	1000	1000	1000	928	880	833	761	690	642	595	328																		
1.5415	10	100	100	100	100	100	100	97	85	80	74	69	64	59	54	49	44	35	28	22									
	16	160	160	160	160	160	160	156	137	129	119	110	102	94	86	78	70	56	44	35									
	25	250	250	250	250	250	250	244	214	202	186	172	160	147	135	123	110	88	70	55									
	40	400	400	400	400	400	400	390	342	323	299	276	256	236	216	197	177	140	112	89									
	63	630	630	630	630	630	630	615	540	510	471	435	403	372	341	310	279	222	177	141									
100	1000	1000	1000	1000	1000	1000	976	857	809	747	690	640	591	542	492	442	352	280	223										
1.7335	10	100	100	100	100	100	100	100	95	90	84	80	76	72	68	65	55	44	37	29	23	19	15						
	16	160	160	160	160	160	160	160	152	144	134	128	121	115	108	104	88	71	59	46	37	30	25						
	25	250	250	250	250	250	250	250	238	225	210	200	190	180	170	163	138	111	93	72	58	47	39						
	40	400	400	400	400	400	400	400	380	360	337	320	304	288	272	260	220	179	148	116	93	76	62						
	63	630	630	630	630	630	630	630	600	567	531	505	479	454	428	411	348	282	234	183	147	120	99						
100	1000	1000	1000	1000	1000	1000	1000	952	900	842	802	761	720	680	652	552	447	371	290	233	190	157							
1.7383	10	100	100	100	100	100	100	100	97	92	88	83	78	73	69	64	56	49	42	37	32	27	24	20	18	16			
	16	160	160	160	160	160	160	160	156	148	140	133	125	118	110	102	89	78	68	59	51	44	38	33	28	25			
	25	250	250	250	250	250	250	250	244	232	220	208	196	184	172	160	140	122	107	92	80	69	60	52	45	40			
	40	400	400	400	400	400	400	400	390	371	352	333	314	295	276	257	224	196	171	148	129	110	97	83	72	64			
	63	630	630	630	630	630	630	630	615	585	555	525	495	465	435	405	354	309	270	234	204	174	153	132	114	102			
100	1000	1000	1000	1000	1000	1000	1000	976	928	880	833	785	738	690	642	561	490	428	371	323	276	242	209	180	161				

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ (GA ▪ PN 10-40) ▪ PN 10-100 ▪ DN 50-150



Pressure rate table only valid for butt-weld ends

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PD	-60	-10	20	100	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	1,0	100	100	100	100	97	85	75	64	59	49	46	44	42	39	35	29	24																
	1,6	160	160	160	160	151	132	118	102	95	76	73	69	65	61	54	45	37																
	2,5	250	250	250	250	245	215	192	161	148	124	118	112	106	100	88	74	61																
	4,0	400	400	400	400	395	346	309	276	238	200	190	180	171	161	142	119	98																
	6,3	630	630	630	630	603	527	471	405	375	305	290	275	260	245	217	181	149																
	10,0	1000	1000	1000	1000	940	820	740	642	595	480	450	430	410	380	340	280	230																
	1.0566 ²⁾³⁾	1,0	100	102	102	100	100	90	80	70																								
1,6		160	163	163	160	150	140	130	110																									
2,5		250	255	255	250	240	220	200	170																									
4,0		400	408	408	400	390	350	310	280																									
6,3		630	643	643	630	610	550	490	440																									
10,0		1000	1021	1021	1000	960	880	790	700																									
1.5415		1,0	120	120	120	120	115	106	91	88	85	84	83	83	82	82	81	80	80	70	54	41	33	26										
	1,6	190	190	190	190	179	165	142	137	132	131	130	129	128	127	126	125	125	109	85	65	51	41											
	2,5	300	300	300	300	291	268	230	222	215	213	212	210	209	207	205	204	202	177	138	105	83	66											
	4,0	480	480	480	480	470	432	371	358	346	344	341	339	336	334	331	329	326	285	222	169	133	107											
	6,3	770	770	770	770	716	659	565	546	527	524	520	516	512	509	505	501	497	434	339	258	203	163											
	10,0	1200	1200	1200	1200	1120	1030	880	850	820	820	810	810	800	790	790	780	780	680	530	400	320	250											
	1.7335	1,0	120	120	120	120	120	121	112	106	100	98	97	96	95	94	93	92	92	91	83	70	55	45	36	28	23	19						
1,6		190	190	190	190	189	175	165	156	154	152	150	148	146	145	144	143	142	129	109	86	70	57	44	36	29								
2,5		300	300	300	300	300	300	284	268	253	250	247	244	241	238	236	235	233	232	210	177	140	114	92	72	59	48							
4,0		480	480	480	480	480	480	457	433	408	403	398	393	388	383	381	378	376	373	339	285	225	184	148	116	95	77							
6,3		770	770	770	770	770	753	697	659	622	614	606	599	591	584	580	576	573	569	516	434	344	280	226	176	145	118							
10,0		1200	1200	1200	1200	1200	1180	1090	1030	970	960	950	940	920	910	910	900	890	890	810	680	540	440	350	280	230	180							
1.7383		1,0	120	120	120	120	120	120	112	106	104	103	102	101	100	98	97	96	92	82	71	62	54	47	41	35	31	27	23	20				
	1,6	190	190	190	190	190	190	170	170	160	160	160	160	160	150	150	150	140	130	110	100	80	70	60	50	40	40	30						
	2,5	300	300	300	300	300	300	280	270	270	260	260	260	250	250	250	240	230	210	180	160	140	120	100	90	80	70	60	50					
	4,0	480	480	480	480	480	480	460	430	430	420	420	410	410	400	400	390	380	330	290	250	220	190	170	140	130	110	90	80					
	6,3	770	770	770	770	770	750	700	660	650	640	640	630	620	610	610	600	570	510	440	390	340	290	260	220	190	170	140	130					
	10,0	1200	1200	1200	1200	1200	1180	1090	1030	1020	1010	990	980	970	960	950	940	890	790	690	610	530	460	400	340	300	260	220	200					

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) At temperatures > 50 °C only applicable for short time service.

3) In case of stainless steel bolts (DIN material code A4-70) with > 8 x d bolt length the strength characteristics acc. to table 6 of DIN 267 part 11 have been considered.

▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ (GA ▪ PN 10-40) ▪ PN 10-100 ▪ DN 50-150

Standard features

- Spit wedge = Type 700 JJ
- Flexible wedge = Type 700 HJ
- Die-forged body and bonnet
- Full bore,
exception DN 65/50 and DN 125/100
- Outside screw and yoke
- Non turning, rising stem
- Yoke sleeve
- Available with flange and
buttweld ends

Option Version GA

- Split wedge / Flexible wedge
- Inside screw
- Non-rising turning stem

Pressure and temperature ratings

- Pressure rating up to 100 bar
- Acc. to PERSTA PD 10 up to 120 bar
- Temperature rating up to 600 °C

Materials

- 1.0460
- 1.0619 just for flange type PN 10-40
- 1.0566
- 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

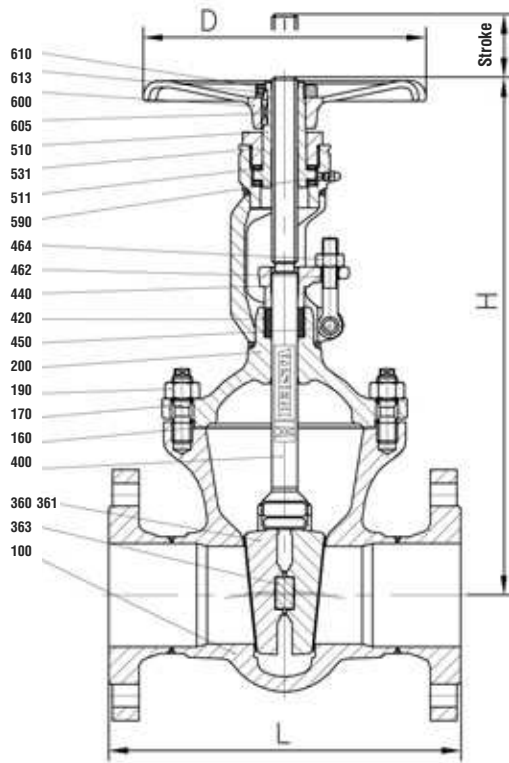
Design Highlights

- 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 DN 65/50 and DN 125/100
- Non - turning rising stem
- Type GA, turning non-rising stem

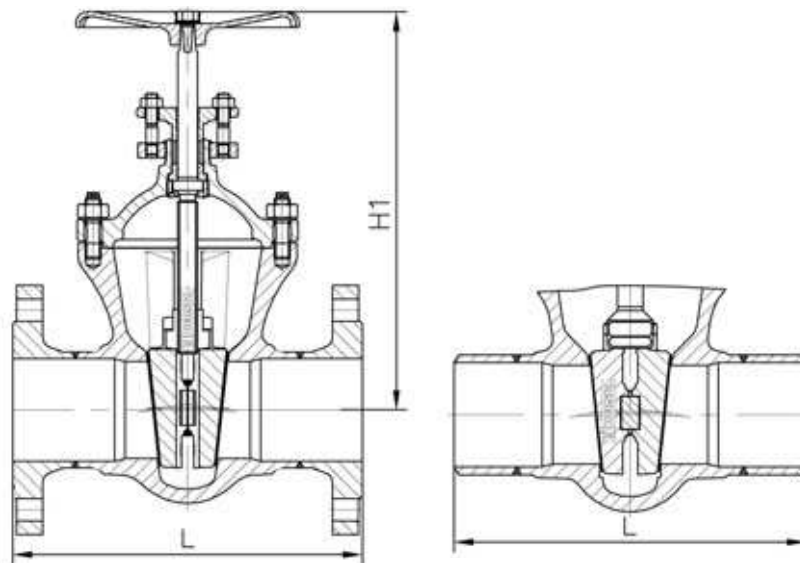
Benefits

- Die-forged parts, compared with cast steel parts are generally free from porosity and shrink holes. The special of the valve body minimizes the existence 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

▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ (GA ▪ PN 10-40) ▪ PN 10-100 ▪ DN 50-150



700 GA



■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA ■ PN 10-40) ■ PN 10-100 ■ DN 50-150

Materials							
Pos.	Component	1.0619 (11) PN 10-40	1.0460 (21)	1.0566 (25)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body	1.0619 ¹⁾	1.0460 ¹⁾	1.0566 ¹⁾	1.5415 ²⁾	1.7335 ²⁾	1.7383 ²⁾
160	▶ Gasket	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾	Graphite ⁴⁾
170	Stud	1.7709	1.7709	A4-70	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	A4-70	1.7218	1.7218	1.7218
200	Bonnet	1.0460	1.0460	1.0566	1.5415	1.7335	1.7383
360/361	▶ Disc	1.0460 ³⁾	1.0460 ³⁾	1.0566 ³⁾	1.5415 ²⁾	1.7335 ²⁾	1.7383 ²⁾
363	Pressure piece	1.4021	1.4021	1.4021	1.4021	1.4021	1.4021
400	▶ Stem	1.4021	1.4021	1.4571	1.4122	1.4122	1.4122
420	▶ Packing	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
440	Gland flange	1.0460	1.0460	1.4571	1.0460	1.0460	1.0460
450	Grooved pin	St	St	1.4571	St	St	St
462	Eye bolt	1.1181	1.1181	A4-50	1.1181	1.1181	1.1181
464	Hexagonal nut	1.1181	1.1181	A4-70	1.1181	1.1181	1.1181
510	▶ Yoke sleeve	1.0718	1.0718	1.0718	1.0718	1.0718	1.0718
511	▶ Roller bearing	WLS	WLS	WLS	WLS	WLS	WLS
531	Yoke nut	1.0718	1.0718	1.0718	1.0718	1.0718	1.0718
590	Grease nipple	5.8	5.8	5.8	5.8	5.8	5.8
600	Handwheel	0.7040	0.7040	0.7040	0.7040	0.7040	0.7040
605	Key	1.0060	1.0060	1.0060	1.0060	1.0060	1.0060
610	Hexagonal pipe nut	St	St	St	St	St	St
613	Screw pin	45H	45H	45H	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							
Attention: Ki-Gate-Valve 700 GA only in material 1.0460							

Dimensions/mm									Weights/kg and Kvs-values											
PN DN							700 GA		GS-C25N				700 GA					Kvs (m ³ /h)		
	10-25 L	40-100 L	10-40 H	63-100 H	Stroke	10-40 D	63-100 D	H1	10-25 FL	40 FL	10-25 FL	40 FL	63 FL	100 FL	10-40 BW	63-100 BW	10-25 FL		40 FL	10-40 BW
50	250	250	337	337	63	180	180	280	21,5	21,5	19,0	19,0	23,5	26,5	15,0	15,5	19,0	19,0	15,0	258,0
65 / 50	270	290	337	337	63	180	180	280			21,0	21,0	26,0	30,5	15,5	16,0	21,0	21,0	28,0	258,0
80	280	310	410	410	90	225	225	345	40,0	40,0	35,0	35,0	40,5	45,0	28,0	31,0	35,0	35,0	28,0	628,0
100	300	350	455	505	110	280	360	405	57,0	61,5	50,0	54,0	63,0	71,0	43,0	47,0	50,0	54,0	43,0	991,0
125 / 100	325	400	455	505	110	280	360	405			53,5	59,0	74,0	89,0	45,0	49,0	53,0	59,0	45,0	991,0
150	350	450	655	685	165	360	450	525	114,0	120,0	92,0	98,0	138,0	155,0	80,0	100,0	92,0	98,0	80,0	2323,0

▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ (GA) ▪ PN 10-40 ▪ DN 200-250



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-60	-10	20	120	150	200	250	300	350	400	450
1.0460	10-16	16	16	16	15	14	13	11	10	8	6	
	25	25	25	25	24	22	20	17	16	13	10	
	40	40	40	40	38	35	32	28	24	21	10	
1.0566 ²⁾	10-16	16	16	16	15	14	13	11				
	25	25	25	25	24	22	20	17				
	40	40	40	40	38	35	32	28				

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

2) At temperature > 50 °C only applicable for short-time service.

▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ (GA) ▪ PN 10-40 ▪ DN 200-250

Standard features

- Split wedge = Type 700 JJ
- Flexible wedge = Type 700 HJ
- Die-forged body and bonnet
- Full bore
- Outside screw and yoke
- Non-turning rising stem
- Yoke sleeve
- Available with flange and butt-weld ends

Optional standard features GA

- Split wedge / Flexible wedge
- Inside screw
- Non-rising turning stem

Pressure and temperature ratings

- Pressure rating up to 40 bar
- Temperature rating up to 450 °C

Materials

- 1.0460
- 1.0566

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

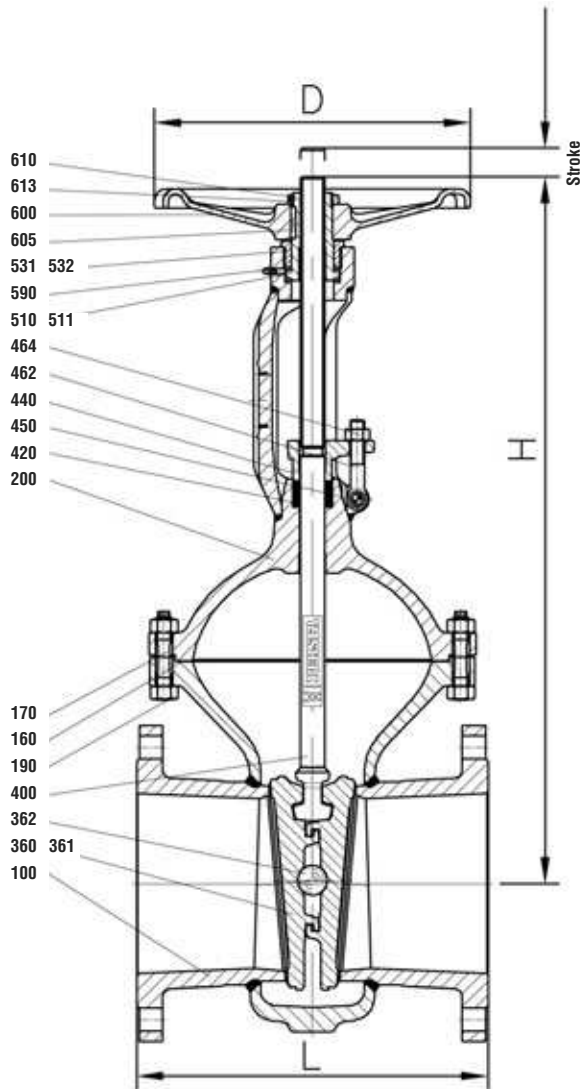
Design Highlights

- Die-forged body and bonnet
- Hard faced seats (valve body and shut-off device)
Hardness app. 35-37 HRC
- Bolted bonnet with reduced shaft bolts
- Full bore
- Non-turning, rising stem
- Type GA, rotating non-rising stem
- Possibility to add an actuator-flange

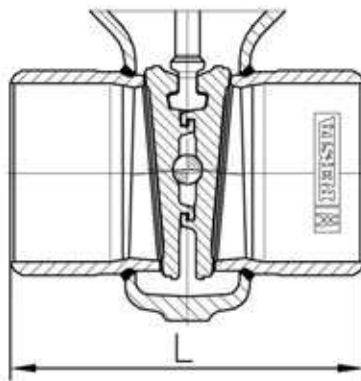
Benefits

- Free from porosity and shrink holes
- Extremely resistant to wear
- To improve the stress capability when temperature and pressure fluctuate
- No reduction at seat area
- Minimum wear to the gland packing compared with ground stem surfaces
- Small dimensions
- Simple retrofitting of an actuator possible

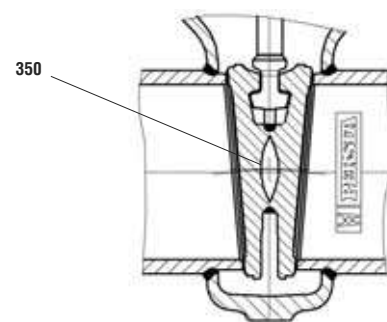
▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ (GA) ▪ PN 10-40 ▪ DN 200-250



700 JJ



700 HJ



■ Gate valves ■ Gate valve ■ 700 HJ/JJ (GA) ■ PN 10-40 ■ DN 200-250

Materials			
Pos.	Component	1.0460 (21)	1.0566 (25)
100	Body	1.0460 ³⁾	1.0566 ³⁾
160	▶ Gasket	Grooved with graphite layer	Grooved with graphite layer
170	Stud	1.1181	A4-70
190	Hexagonal nut	1.1181	A4-70
200	Bonnet	1.0460	1.0566
350	▶ Wedge	1.0460 ⁴⁾	1.0566 ⁴⁾
360/361	▶ Disc	1.8507 ⁴⁾	1.0566 ⁴⁾
362	▶ Ball	WLS _t	WLS _t
400	▶ Stem	1.4021 ⁵⁾	1.4571
420	▶ Packing	Graphite	Graphite
440	Gland flange	1.0460	1.4571
450	Grooved pin	St	1.4571
462	Eye bolt	1.1181	A4-50
464	Hexagonal nut	1.1181	A4-70
510	Yoke sleeve	1.0718	1.0718
511	▶ Needle bearing	WLS _t	WLS _t
531	▶ Yoke nut	1.0718	1.0718
532	Screw pin	45H	45H
590	▶ Grease nipple	5.8	5.8
600	Handwheel	0.7040	0.7040
605	Key	1.0060	1.0060
610	Hexagonal pipe nut	St	St
613	Screw pin	45H	45H
	▶ Spare parts		
		3) Welded on with 18/8	
		4) Welded on with Cr17	
		5) PN 40 DN 250 = 1.4122	
		Further materials on request.	
		Attention: Ki-Gate-Valve 700 GA only in material 1.0460	

Dimensions/mm						
DN	PN 10-25	PN 40	H	Stroke	PN 10-25	PN 40
	L	L			D	D
200	400	550	810	220	360	450
250	450	650	975	285	450	450
700 GA DN			H1			
200			590			
250			725			

Weights/kg and Kvs-values					
DN	FL	FL	BW	BW	Kvs (m ³ /h)
	PN 10-25	PN 40	PN 10-25	PN 40	
200	151,5	185	140	140	4000
250	285,0	325	245	280	6247
700 GA DN					
200	138,5	170	125	125	4000
250	263,0	303	223	258	6247

▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ ▪ PN 63-100 ▪ DN 200-300



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	Admissible operating pressure [bar] at design temperature [°C] ¹⁾																							
		-60	-10	20	120	150	200	250	300	350	400	450	475	480	500	510	520	530	540	550	560	570	580	590	600
1.0460	63	63	63	63	58	50	45	40	36	32	21	14,0	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	37,0	35	29	22	16	14								
	100	100	100	100	100	100	100	87	78	74	70	57,0	54	45	34	27	22								
1.7335	63	63	63	63	63	63	63	61	58	56	53,0	51	47	40	32	25	20	16	13	10					
	100	100	100	100	100	100	100	95	91	87	82,0	80	74	62	49	38	31	24	19	16					
1.7383	63	63	63	63	63	63	63	62	62	60	55,0	53	47	40	35	28	25	22	18	15	12	11	9		
	100	100	100	100	100	100	100	98	96	94	85,0	82	74	62	53	43	39	33	27	23	19	17	15		

1) Betriebstemperatur = Berechnungstemperatur minus Temperaturzuschlag nach Regelwerk.

■ Gate valves ■ Gate valve ■ 700 HJ/JJ ■ PN 63-100 ■ DN 200-300

Standard features

- Split wedge = Type 700 JJ
- Flexible wedge = Type 700 HJ
- Die-forged body and bonnet
- Full bore
- Outside screw and yoke
- Non-turning, rising stem
- Yoke sleeve
- Available with flange and butt-weld ends

Pressure and temperature ratings

- Pressure rating up to 100 bar
- Temperature rating up to 600 °C

Materials

- 1.0460
- 1.5415
- 1.7335
- 1.7383

For low temperature service available as casting.
Other materials on request.

Fields of application

Chemical industries, power plants, ship building and other

Media

Depending on the material the gate valves are suitable for water, gas, oil and other non aggressive media

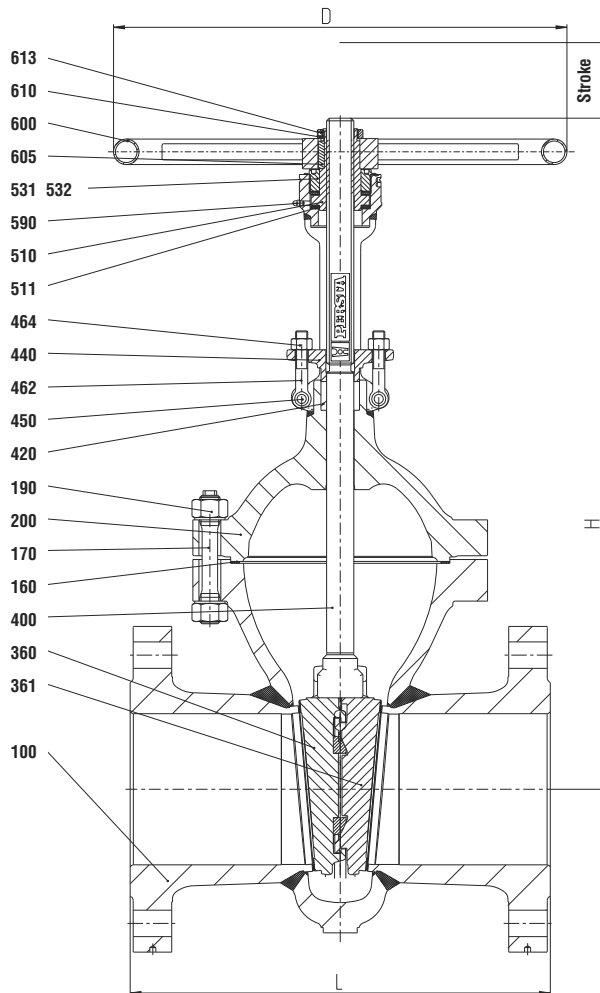
Design Highlights

- Die-forged body and bonnet
- Hard faced seats (valve body and shut-off device)
- Gasket located in gap
- Full bore
- Non-rising stem

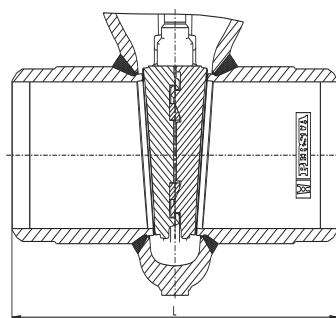
Benefits

- Free from porosity and shrink holes
- Extremely resistant to wear
- Blow out protection
- No reduction in seat area
- Minimum wear to the gland packing compared with ground stem surfaces

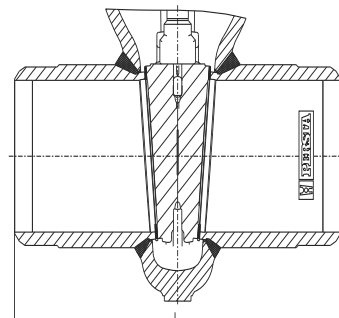
▪ Gate valves ▪ Gate valve ▪ 700 HJ/JJ ▪ PN 63-100 ▪ DN 200-300



700 JJ



700 HJ



■ Gate valves ■ Gate valve ■ 700 HJ/JJ ■ PN 63-100 ■ DN 200-300
Materials

Pos.	Component	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body	1.0460	1.7383/1.5415	1.7383/1.7335	1.7383
160	▶ Seat ring	Grooved with graphite layer	Grooved with graphite layer	Grooved with graphite layer	Grooved with graphite layer
170	Stud	1.7709	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218	1.7218
200	Bonnet	1.7383	1.7383	1.7383	1.7383
360/361	▶ Disc	1.7383 ⁴⁾	1.7383	1.7383 ¹³⁾	1.8507 ³⁾
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
450	Grooved pin	St ⁶⁾	St ⁶⁾	St ⁶⁾	St ⁶⁾
462	Eye bolt	1.1181 ⁵⁾	1.1181 ⁵⁾	1.1181 ⁵⁾	1.1181 ⁵⁾
464	Hexagonal nut	1.1181 ⁹⁾	1.1181 ⁹⁾	1.1181 ⁹⁾	1.1181 ⁹⁾
510	▶ Yoke sleeve	1.0718 ⁸⁾	1.0718 ⁸⁾	1.0718 ⁸⁾	1.0718 ⁸⁾
511	▶ Roller bearing	WLS1 ⁷⁾	WLS1 ⁷⁾	WLS1 ⁷⁾	WLS1 ⁷⁾
531	Yoke nut	1.0718	1.0718	1.0718	1.0718
532	Screw pin	45H	45H	45H	45H
590	Grease nipple	5.8	5.8	5.8	5.8
600	Handwheel	St	St	St	St
605	Key	1.0060	1.0060	1.0060	1.0060
610	Handwheel nut	St	St	St	St
613	Screw pin	45H	45H	45H	45H
	▶ Spare parts				
	1) ≥ DN 250 = 1.7383 welded on with Stellite				
	2) welded on with Cr17				
	3) welded on with Stellite				
	4) ≥ DN 250 = 1.0460 welded on with Cr17				
	5) ≥ DN 250 = 1.7709				
	6) ≥ DN 250 = 1.7218				
	7) ≥ DN 250 = Roller bearing				
	8) ≥ DN 250 = CW 713 R				
	9) ≥ DN 250 = 1.7218				

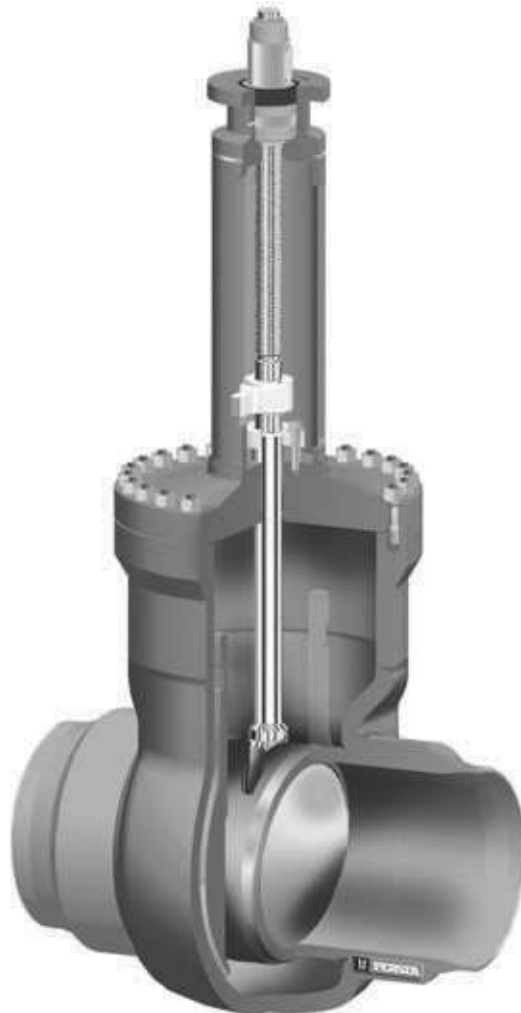
Dimensions/mm

DN	PN 63-100			
	L	H	Stroke	D
200	550	890	210	600
250	650	1110	265	720
300	750	1310	313	900

Weights/kg and Kvs-values

DN	FL PN 63	FL PN 100	BW PN 63-100	Kvs (m ³ /h)
	200	270	285	
250	480	538	430	6247
300	690	750	560	8997

▪ Gate valves ▪ Gate valve ▪ 400 JJ ▪ PN 63-100 ▪ DN 350-700



Range of application

Admissible operating pressure [bar] at design 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	14,0	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	37,0	35	29	22	16	14								
	100	100	100	100	100	100	87	78	74	74	70	57,0	54	45	34	27	22								
1.7335	63	63	63	63	63	63	63	61	58	56	53,0	51	47	40	32	25	20	16	13	10					
	100	100	100	100	100	100	100	95	91	87	82,0	80	74	62	49	38	31	24	19	16					
1.7383	63	63	63	63	63	63	63	62	62	60	55,0	53	47	40	35	28	25	22	18	15	12	11	9		
	100	100	100	100	100	100	100	98	96	94	85,0	82	74	62	53	43	39	33	27	23	19	17	15		

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ Gate valves ■ Gate valve ■ 400 JJ ■ PN 63-100 ■ DN 350-700**Standard features**

- Split wedge type
- Die-forged body and bonnet
- Outside screw and yoke
- Possibility to add an actuator

Pressure and temperature ratings

- Pressure rating up to 100 bar
- Temperature rating up to 600 °C

Materials

- 1.0425
- 1.5415
- 1.7335
- 1.7383

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

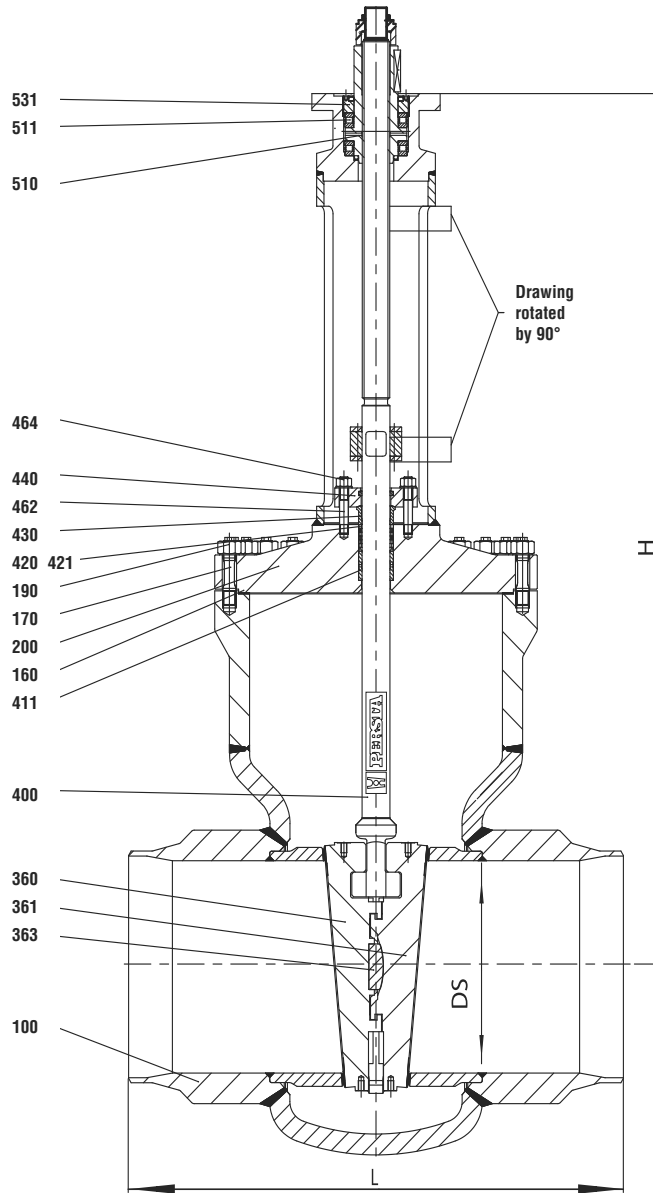
Design Highlights

- Seats and wedge faced with stellite
- Non-turning, rising stem
- Gland flange and gland ring in two separate pieces
- Yoke sleeve supported by needle bearing

Benefits

- Best possible sliding performance, minimum wear
- Minimum wear to the gland packing
- Damage to the stem by irregular tightening of gland bolts is avoided
- Minimize the expenditure of effort when operating valve

▪ Gate valves ▪ Gate valve ▪ 400 JJ ▪ PN 63-100 ▪ DN 350-700



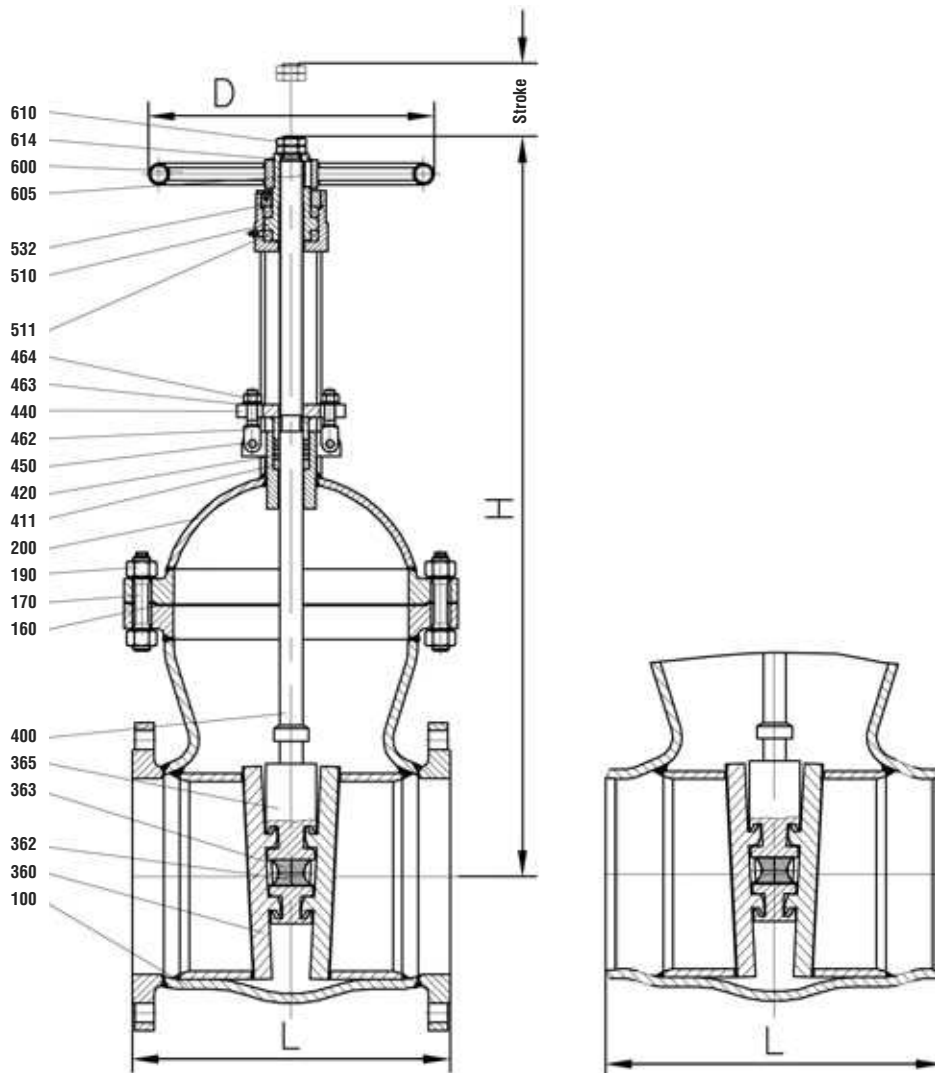
■ Gate valves ■ Gate valve ■ 400 JJ ■ PN 63-100 ■ DN 350-700

Materials					
Pos.	Component	1.0425 (22)	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body welded on with	1.0425	1.5415	1.7335	1.7383
160	▶ Gasket	Stellite	Stellite	Stellite	Stellite
170	▶ Stud	Graphite	Graphite	Graphite	Graphite
190	Hexagonal nut	1.7709	1.7709	1.7709	1.7709
200	Bonnet	1.7218	1.7218	1.7218	1.7218
360/361	▶ Double disc welded on with	1.0460	1.5415	1.7335	1.7383
363	▶ Pressure piece	1.7383	1.7383	1.7383	1.7383
400	▶ Stem	Stellite	Stellite	Stellite	Stellite
411	▶ Guide bushing	1.4122	1.4122	1.4122	1.4122
420/421	▶ Packing	1.4021	1.4122	1.4122	1.4122
430	Gland ring	1.8507	1.8507	1.8507	1.8507
440	Gland flange	Graphite	Graphite	Graphite	Graphite
462	Stud	1.5415	1.5415	1.5415	1.5415
464	Hexagonal nut	1.5415	1.5415	1.7383	1.7383
510	▶ Yoke sleeve	1.7709	1.7709	1.7709	1.7709
511	▶ Roller bearing	1.7218	1.7218	1.7218	1.7218
531	Screwing	CW 713 R	CW 713 R	CW 713 R	CW 713 R
		WLS1	WLS1	WLS1	WLS1
	▶ Spare parts	1.7335	1.7335	1.7335	1.7335

Dimensions/mm				
DN	DS	Stroke	L	H
350	330	365	850	1620
400	375	417	950	1745
450	419	455	1050	2030
500	464	515	1150	2260
600	559	625	1350	2560
700	640	690	1550	2695

Weights/kg and Kvs-values		
DN	BW	Kvs (m ³ /h)
350	950	11243
400	1500	14521
450	1850	18105
500	2350	22353
600	4300	32188
700	5100	41773

▪ Gate valves ▪ VALTRA Gate valve ▪ 700 JJ ▪ PN 10-25 ▪ DN 300-1000



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-10	20	100	120	200	250	300	350	400
P265GH	10	10	10	10	10	9	8	7	6	5
	16	16	16	16	14	13	11	10	8	
	25	25	25	25	22	20	17	16	13	

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ Gate valves ■ VALTRA Gate valve ■ 700 JJ ■ PN 10-25 ■ DN 300-1000

Materials

Pos.	Component	P265GH (22)
100	Body welded on with	P265GH X20CrMo171
160	▶ Gasket	Sigralflex
170	▶ Stud	1.7158
190	Hexagonal nut	1.7158
200	Bonnet	P265GH
360	▶ Key welded on with	P265GH X8CrTi18
362	▶ Ball	1.4021
363	▶ Pressure piece	1.4021
365	▶ Double disc guide	P265GH
400	▶ Stem	1.4021
411	Guide bushing	GG 25
420	▶ Packing	Graphite
440	Gland flange	P265GH
450	Pin	1.1181
462	Gland bolt	1.1181
463	Washer	St
464	Hexagonal nut	1.0501
510	▶ Yoke sleeve	0.7040
511	▶ Thrust ball bearing	WlSt
531	Screwing	S355J2G3
532	Countersink screw	8.8
600	Handwheel	St
605	Key	1.0050
610	Hexagonal nut	5.6
614	Retaining ring	FSt
	▶ Spare parts	
	Further materials on request.	

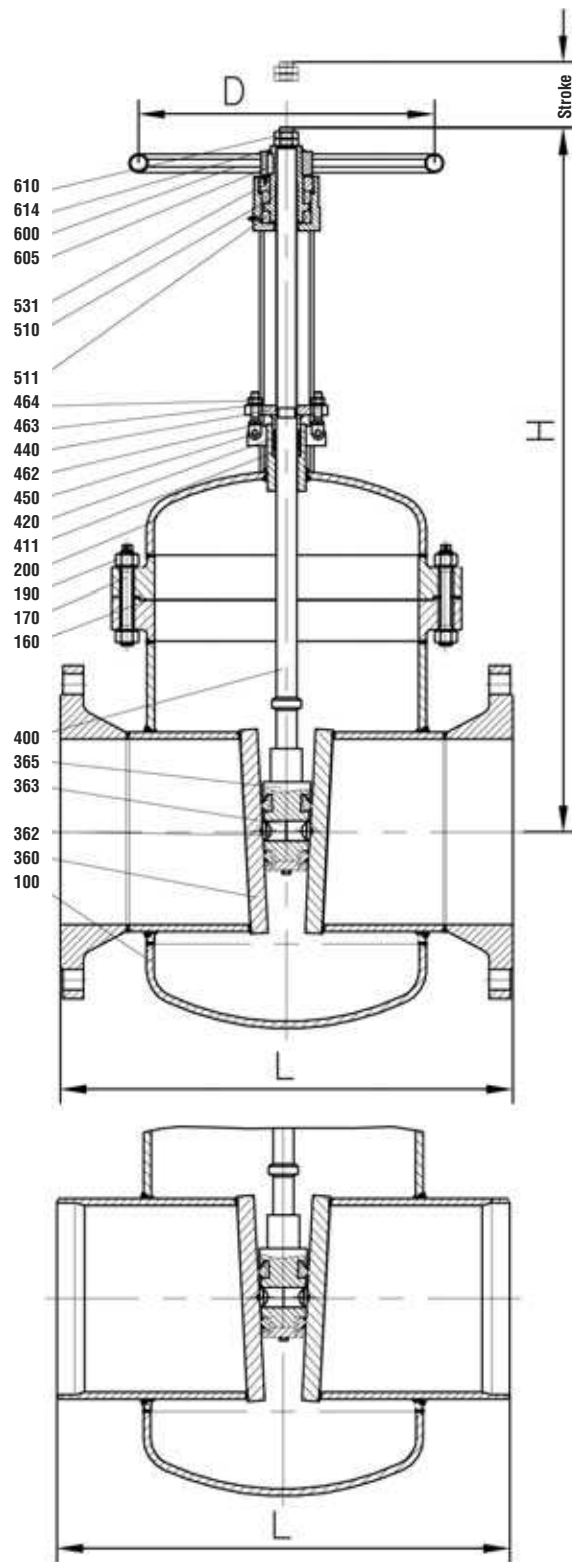
Dimensions/mm

DN	PN 10-25	PN 10-25	PN 10-16	PN 25	PN 10-25
	L	H	Stroke	Stroke	D
300	500	1165	345	345	450
350	550	1260	375	375	500
400	600	1410	420	420	600
500	700	1715	545	545	800
600	800	2035	635	655	800
700	900	2260	790		800
800	1000	2690	845		800
900					
1000					

Weights/kg and Kvs-values

DN	PN 10	PN 16	PN 25	PN 10	PN 16	PN 25	Kvs (m3/h)
	FL	FL	FL	BW	BW	BW	
300	320	330	360	295	295	315	9230
350	390	405	445	360	360	380	11237
400	540	560	610	500	500	525	14677
500	815	860	945	765	765	850	23561
600	1210	1270	1425	1170	1170	1285	33929
700	1690	1715	1980	1630	1630	1775	46181
800	2410	2440	2750	2330	2330	2500	60318
900							
1000							

▪ Gate valves ▪ VALTRA Gate valve ▪ 700 JJ ▪ PN 40 ▪ DN 300-700



Range of application

Admissible operating pressure [bar] at design temperature [°C] ¹⁾

Material	PN	-10	20	100	120	200	250	300	350	400
P265GH	40	40	40	40	40	35	32	28	24	21

1) Operating temperature = design temperature minus temperature surcharge acc. to DIN regulations.

■ Gate valves ■ VALTRA Gate valve ■ 700 JJ ■ PN 40 ■ DN 300-700

Materials

Pos.	Component	P265GH (22)
100	Body welded on with	P265GH X20CrMo171
160	▶ Gasket	Sigralflex
170	Tension screw	1.7158
190	Hexagonal nut	1.7158
200	Bonnet	P265GH
360	▶ Key welded on with	P265GH X8CrTi18
362	▶ Ball	1.4021
363	▶ Pressure piece	1.4021
365	▶ Double disc guide	P265GH
400	▶ Stem	1.4021
411	Guide bushing	GG 25
420	▶ Packing	Graphite
440	Gland flange	P265GH
450	Pin	1.1181
462	Gland bolt	1.1181
463	Washer	St
464	Hexagonal nut	1.0501
510	▶ Yoke sleeve	0.7040
511	▶ Thrust ball bearing	WLS
531	Screwing	S355J2G3
532	Countersink screw	8.8
600	Handwheel	St
605	Key	1.0050
610	Hexagonal nut	5.6
614	Retaining ring	FSt
	▶ Spare parts	
	Further materials on request.	

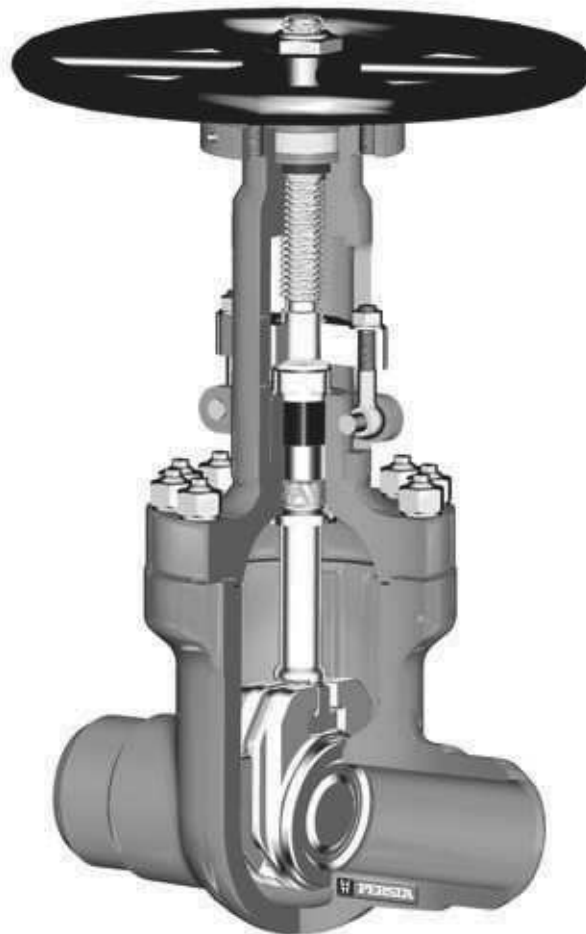
Dimensions/mm

DN	L	H	Stroke	D
300	750	1260	345	500
350	850	1295	375	600
400	950	1575	445	800
500	1150	1795	525	800
600	1350	2155	640	800
700	1550	2595	770	800
800				

Weights/kg and Kvs-values

DN	FL	BW	Kvs (m ³ /h)
300	440	370	9230
350	610	460	11237
400	890	710	14677
500	1270	1050	23561
600	2310	1980	33929
700	3210	2960	46181
800			

▪ 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
- Flexible wedge
- 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 233 bar (PD 18)
- Pressure rating FL up to 160 bar
- Temperature ratings up -10 °C to 600 °C

Materials

- 1.5415
- 1.7335
- 1.7383

Further materials, e.g. **F92** 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

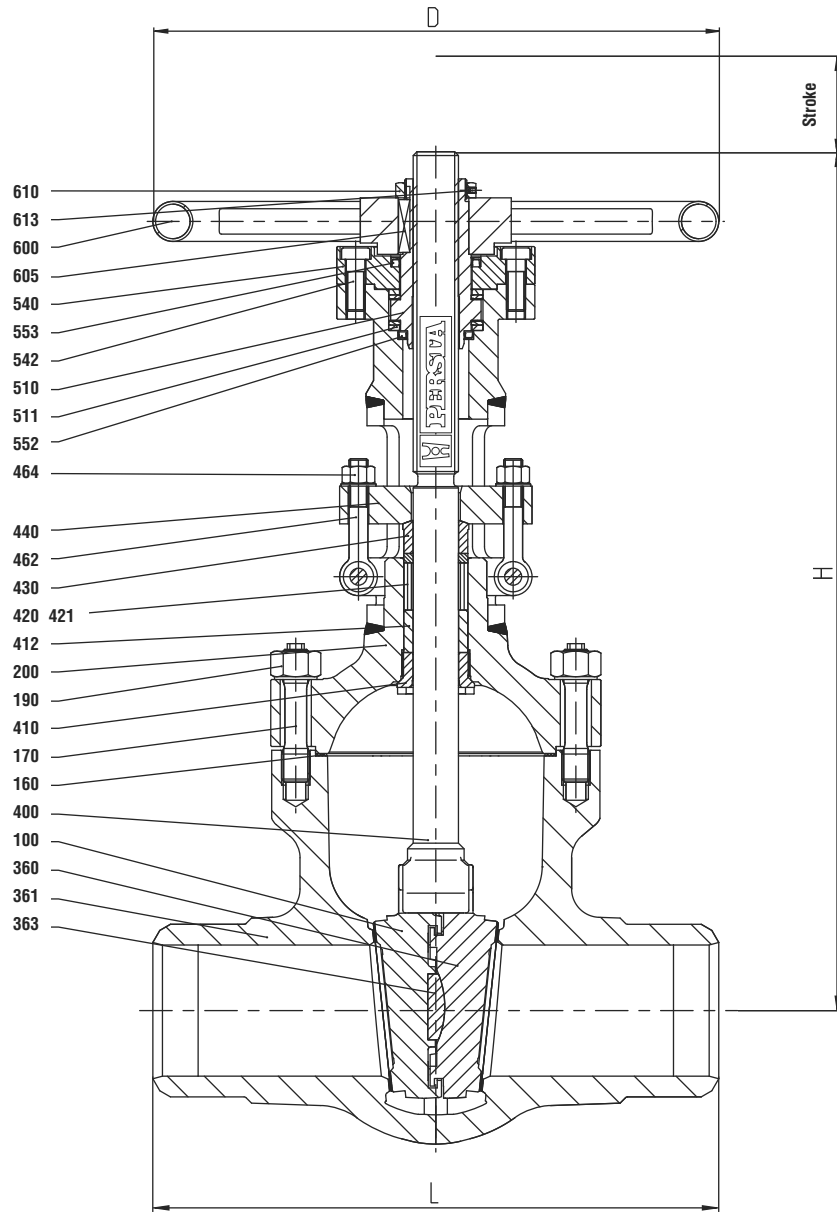
Design Highlights

- Die-forged valve body with incorporated seats
- Seats and wedge faced with stellite
- Non-rising handwheel
- Non-turning, rising 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

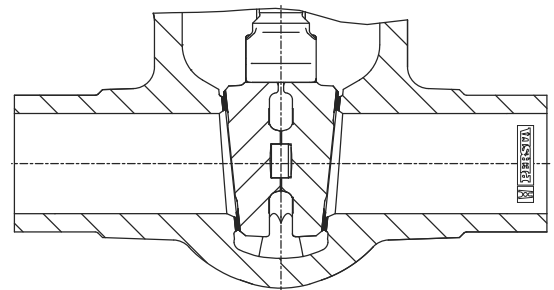
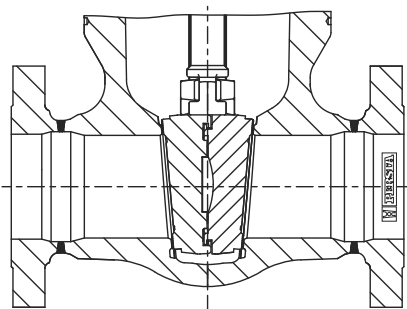
Benefits

- 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⁾
189	Expansion shaft	--	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	▶ Double 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	Bottom ring	1.0718	1.0718	1.0718
420/421	▶ Packing	Graphite	Graphite	Graphite
430	Gland ring	1.5415	1.5415	1.5415
440	Gland flange	1.5415	1.5415	1.5415
450	Rivet pin	1.7218	1.7218	1.7218
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	▶ Roller bearing	WLSst	WLSst	WLSst
540	Flange	1.0425	1.0460	1.0460
542	Headcap screw	8.8	8.8	8.8
552/553	▶ Gasket	NBR	Viton	Viton
590	Grease nipple	5.8	5.8	5.8
600	Handwheel	St	St	St
605	Key	1.0060	1.0060	1.0060
610	Hexagonal pipe 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	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