

- Casted body and bonnet
- Bolted bonnet (BB)
- Rising stem (RS), outside screw and yoke (OS&Y)
- Wedge may be one-piece flexible, solid or split wedge type

#### APPLICATIONS

- Refining
- Petrochemical
- Chemical
- Power plant

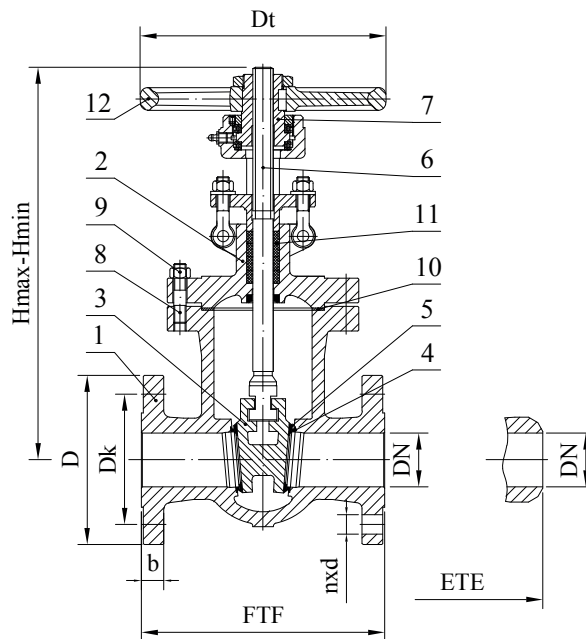
#### VÝHODY POUŽITÍ

- Long service life
- Respect to emission standards
- Easy handling and maintenance
- Stem packing replacement in working conditions



#### TECHNICAL DATA:

Media:	Depending on the gate valve materials: water, steam, gas, oil and oil derivatives and other non aggressive media
Pressure and temperature:	Pressure up to 160 bar Temperature up to 600 °C
Materials:	Carbon, heat resistant alloys and stainless steels
Options:	Electric, hydraulic or pneumatic actuator Position indicator Extended stem Locking device Non rising stem and solid wedge Hole in the wedge (overpressure safety design) Spring loaded stuffing box (SLSB) With bypass Valve With equalizing pipe With equalizing pipe and bypass valves Flanges and welding ends according to: ASME, DIN, GOST, etc. Other paint finishes are available upon customer's request Gate valve complete with counter flanges, bolting and gaskets.
Testing:	Every produced gate valve was tested according to EN 12266



## LIST OF MATERIALS

Item	Part	Material Group acc. to EN 12516-1					
		3E0	4E0	5E0	6E0	11E0	14E0
		Application					
		up to 400 °C	up to 550 °C	up to 550 °C	up to 600 °C	-196 °C ÷ 600 °C	-196 °C ÷ 600 °C
1	Body <sup>1)</sup>	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
2	Bonnet( <sup>1)</sup>	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
3	Wedge <sup>1)</sup>	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
4	Body welded on with	13 Cr	13 Cr (up to 450 °C) or Stellite			Basic material or Stellite	
5	Wedge welded on with	13 Cr	13 Cr (up to 450 °C) or Stellite			Basic material or Stellite	
6	Stem	1.4021 / 1.4122				1.4301	1.4571
7	Stem Nut	1.0715 / 1.7225				Cu alloy	
8	Stud Bolts	A193 B7 / 1.7225		A193 B16 / 1.7709		A193 B8 / 1.4301	A193 B8M / 1.4401
9	Nuts	A194 2H / 1.1191		A194 4 / 1.7709		A194 8 / 1.4301	A194 8M / 1.4401
10	Bonnet Gasket	reinforced pure graphite					
11	Stem Packing	graphite with corrosion inhibitor					
12	Handwheel	steel					

1) other materials available according to EN standard

## STANDARDS:

Gate Valves according to EN 1984	PN 63 / PN 100 / PN 160
Face-to face dimensions according to	Class 1500 ÷ Class 2500 and PN 250 ÷ PN 400
Flanged ends according to	ASME B16.10 and Manufacturer standard
End-to-end dimensions according to	ASME B16.5 or EN 1092-1
Welding ends according to	ASME B16.25 or EN 1092-1

### DIMENSIONS GEN PN 63:

DN		50	65	80	100	125	150	200	250	300	350	400	450	500
[mm]	FTF/ETE	250	290	310	350	400	450	550	650	750	762	950	914	1150
	D	180	205	215	250	295	345	415	470	530	600	670	715	800
	Dk	135	160	170	200	240	280	345	400	460	525	585	630	705
	b	26	26	28	30	34	36	42	46	52	56	60	64	68
	nxd	4×22	8×22	8×22	8×26	8×30	8×33	12×36	12×36	16×36	16×39	16×42	20×42	20×48
	Hmax	455	520	557	631	773	889	1102	1459	1649	1742	1888 <sup>(4)</sup>	2160 <sup>(4)</sup>	2410 <sup>(4)</sup>
	Hmin	385	440	465	520	630	726	875	1146	1307	1362	1481 <sup>(4)</sup>	1690 <sup>(4)</sup>	1900 <sup>(4)</sup>
	Dt	250	250	250	315	400	500	500	630	630	630	500 <sup>(3)</sup>	630 <sup>(3)</sup>	630 <sup>(3)</sup>
kg	FTF	42	53	68	83	152	197	319	643	940	880	1234	1480	2800
	ETE	40	49	61	67	120	166	282	563	813	720	110	1120	2685

### DIMENSIONS GEN PN 100:

DN		50	65	80	100	125	150	200	250	300	350	400	500
[mm]	FTF	250	290	310	350	400	450	550	650	750	850	991	1150
	D	195	220	230	265	315	355	430	505	585	655	715	870
	Dk	145	170	180	210	250	290	360	430	500	560	620	760
	b	30	34	36	40	40	44	52	60	68	74	78	94
	nxd	4×26	8×26	8×26	8×30	8×33	12×33	12×36	12×39	16×42	16×48	16×48	20×56
	Hmax	470	520	570	676	775	926	1128	1405	1638	1910 <sup>(4)</sup>	2180 <sup>(4)</sup>	2410 <sup>(4)</sup>
	Hmin	395	440	476	556	641	764	912	1145	1307	1530 <sup>(4)</sup>	1750 <sup>(4)</sup>	1900 <sup>(4)</sup>
	Dt	250	250	250	315	400	500	500	730	730	500 <sup>(3)</sup>	500 <sup>(3)</sup>	630 <sup>(3)</sup>
kg	FTF	44	55	70	110	164	239	419	675	1000	1250	1540	2892
	ETE	40	42	55	92	124	205	328	590	813	846	1020	2685

### DIMENSIONS GEN PN 160:

DN		50	65	80	100	150	200	250	300
[mm]	FTF	368	419	390	450	600	750	838	965
	D	195	220	230	265	355	430	515	585
	Dk	145	170	180	210	290	360	430	500
	b	30	34	36	40	50	60	68	78
	nxd	4×26	8×26	8×26	8×30	12×33	12×36	12×42	16×42
	Hmax	540	6583	630	745	976	1164	1448 <sup>(4)</sup>	1605 <sup>(4)</sup>
	Hmin	466	576	535	626	785	948	1168 <sup>(4)</sup>	1305 <sup>(4)</sup>
	Dt	315	400	400	400	500	630	500 <sup>(3)</sup>	500 <sup>(3)</sup>
kg	FTF	70	117	101	162	335	596	939	1405
	ETE	51	95	78	131	250	450	716	1100

3) Operated by gearbox 4) Height without actuator

### RANGE OF APPLICATION:

Material	PN	Pressure (bar)/temperature (°C) ratings according to EN 12516-1																					
		-10	20	50	100	150	200	250	300	350	375	400	425	450	470	475	480	500	510	525	550	575	600
1.0619	63	63,0	63,0	63,0	59,0	55,9	52,9	48,4	43,8	40,8	39,3	37,8											
	100	100,0	100,0	100,0	93,6	88,8	84,0	76,8	69,6	64,8	62,4	60,0											
	160	160,0	160,0	160,0	149,8	142,1	134,5	122,9	111,4	103,7	99,9	96,0											
1.5419	63	63,0	63,0	63,0	61,6	57,5	53,7	49,9	46,9	46,1	45,4	43,7	42,0	41,4	41,3	41,1	28,6	24,9	17,8	10,1			
	100	100,0	100,0	100,0	97,8	91,2	85,2	79,2	74,4	73,2	72,0	69,4	66,7	65,8	65,5	65,3	45,3	39,5	28,3	16,0			
	160	160,0	160,0	160,0	156,6	146,0	136,4	126,8	119,1	117,2	115,3	111,0	106,8	105,3	104,9	104,5	72,6	63,2	45,2	25,6			
1.7357	63	63,0	63,0	63,0	63,0	63,0	63,0	63,0	58,7	56,5	53,8	51,4	49,7	47,2	46,5	45,5	39,3	35,1	28,9	18,5			
	100	100,0	100,0	100,0	100,0	100,0	100,0	100,0	93,1	89,8	85,3	81,6	78,9	74,9	73,9	72,2	62,4	55,8	45,9	29,3			
	160	160,0	160,0	160,0	160,0	160,0	160,0	160,0	149,1	143,7	136,6	130,7	126,2	119,8	118,2	115,6	99,9	89,3	73,4	47,0			
1.7379	63	63,0	63,0	63,0	63,0	63,0	63,0	63,0	59,1	57,0	53,8	51,4	49,7	47,2	46,5	45,5	41,5	40,0	33,9	22,2	21,7	9,4	
	100	100,0	100,0	100,0	100,0	100,0	100,0	100,0	93,8	90,5	85,3	81,6	78,9	74,9	73,9	72,2	65,8	63,5	53,9	35,2	34,4	14,9	
	160	160,0	160,0	160,0	160,0	160,0	160,0	160,0	150,2	144,9	136,6	130,7	126,2	119,8	118,2	115,6	105,3	101,7	86,2	56,3	55,1	23,9	
1.4308	63	63,0	63,0	63,0	58,2	51,2	44,1	41,5	38,8	36,0	35,1	34,2	33,3	32,5	31,9	31,8	31,0	30,7	28,7	27,9	25,2	19,8	
	100	100,0	100,0	100,0	92,4	81,2	70,0	65,8	61,6	57,1	55,7	54,3	52,9	51,5	50,6	50,4	50,2	49,3	48,7	45,6	44,3	40,0	31,5
	160	160,0	160,0	160,0	147,9	130,0	112,1	105,3	98,6	91,4	89,2	87,0	84,7	82,5	81,0	80,7	80,3	78,9	78,0	73,0	70,9	64,0	50,4
1.4408	63	63,0	63,0	63,0	60,0	53,8	47,6	44,1	40,6	38,8	37,9	37,0	36,2	35,6	35,4	35,3	35,2	34,9	34,8	32,9	32,6	27,6	22,8
	100	100,0	100,0	100,0	95,2	85,4	75,6	70,0	64,4	61,6	60,2	58,8	57,4	56,6	56,1	56,0	55,9	55,4	55,2	52,3	51,7	43,7	36,3
	160	160,0	160,0	160,0	152,4	136,7	121,0	112,1	103,1	98,6	96,4	94,1	91,9	90,5	89,8	89,6	89,5	88,7	88,4	83,7	82,8	70,0	58,1

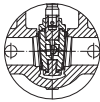
OPTIONAL EXECUTION:



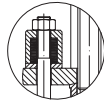
Elastic wedge



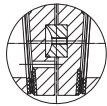
Solid wedge



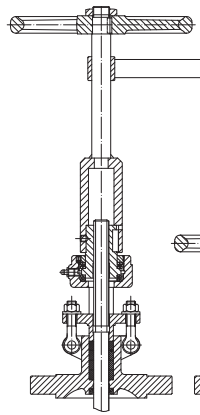
Split wedge



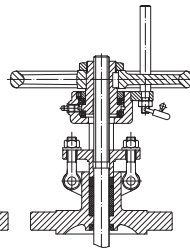
Spring loaded stuffing box (SLSB)



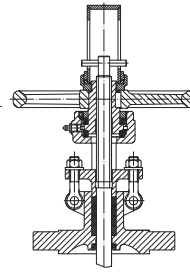
With hole in the wedge



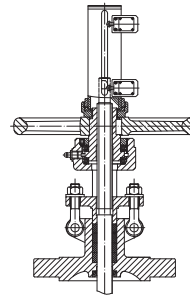
Extended stem



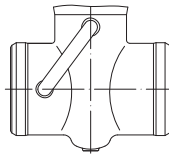
Locking device



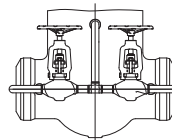
Position indicator



Limit switches



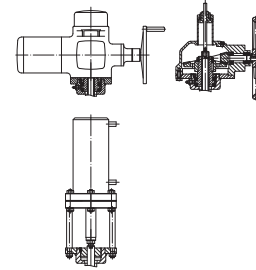
With equalizing pipe



With equalizing pipe and bypass valves



Operated with chain



Operated by electric, pneumatic, or

The data in this datasheet are informative only and the manufacturer reserves the right to changes of technical details.