GATE VALVE
MODEL FIG01

PRODUCTION STANDARDS

MODEL FIG01 I DN50 - DN1200
PN10 - PN16

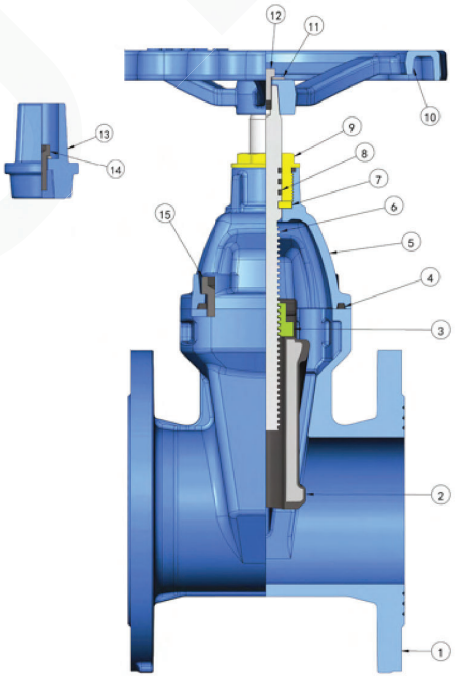
Design	BS 5163:1994, TYPE A
Connection	BS 6755
Flange	BS 4504
Tests	BS 6755
Pressure Class	PN 10/16
Corrosion Protection	Electrostatic Powder Epoxy

VERSIONS

- Standard version with Handwheel
- Standard version with Cap

TEMPERATURE

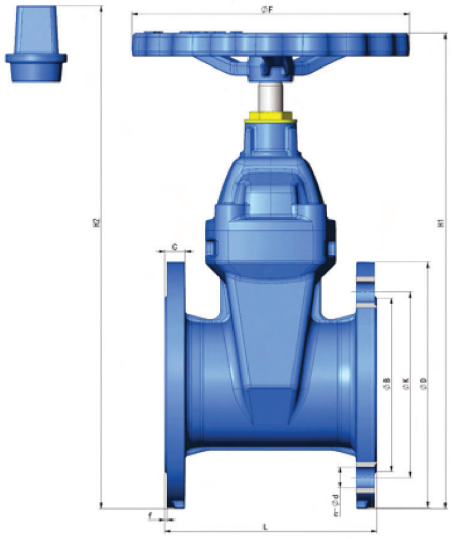
- Maximum 70 °C



MATERIAL SELECTION

No	Items	Material	Standard
1	Body	Ductile Iron	EN GJS 500-7
2	Valve plate	Ductile iron covered with rubber	EN GJS 500-7 EPDM
3	Wedge Nut	Forged Brass	CZ122/CA133
4	Sealing ring	Rubber	EPDM
5	Bonnet	Ductile Iron	EN GJS 500-7
6	Stem	Stainless Steel	AISI 420/AISI 431
7	Washer	Brass	CZ122
8	0-ring	Rubber	EPDM
9	Bushing	Brass	CZ122
10	Handwheel	Ductile Iron	EN GJS 500-7
11	Washer	Stainless Steel	SS304
12	Bolt	Stainless Steel	SS304
13	Cap	Ductile Iron	EN GJS 500-7
14	In Hex Bolt	Stainless Steel	SS304
15	In Hex Bolt	Stainless Steel	SS304

GATE VALVE
MODEL FIG01



FEATURE

- 100% tight sealing is achieved through EPDM covered wedge fully contacting the fusion bonded epoxy coated flow surface.
- The body and bonnet are manufactured from ductile iron castings. It is resistant to high tensile stress occurring in pipelines.
- Low operating torque due to plastic sliding guides on the wedge
- Maintenance-free and corrosion-resistant stem sealing
- With O-ring sealing
- Large conical stem hole in the wedge prevents stagnant water
- Wedge and body guide rails ensure stable operation
- Stainless steel stem with rolled threads for high strength & low operation torque.
- Inner and outer surfaces are coated with minimum 300 microns fusion bonded epoxy.
- Can be operated with actuator, gearbox, handwheel and extension spindle.
- The top of the shaft bearing and shaft nuts are made of brass. High precision machining enables low operation torques.
- Full bore characteristics without distruption of flow results in low pressure drops across the valve

DIMENTIONS

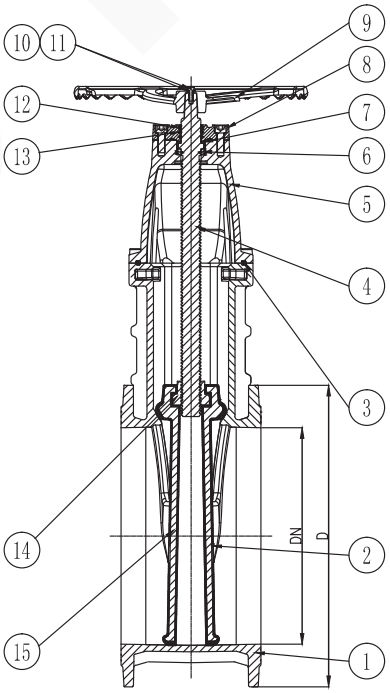
DN	L		H1	H2	ØB		ØD		ØK		n-Ød		C		f	ØF
(mm)	BS	F4			PN10	P16	PN10	P16	PN10	P16	PN10	P16	PN10	P16		
50	178	150	300	353	99		165		125		4-Ø19		19		3	180
65	190	170	340	400	118		185		145		4-Ø19		19		3	180
80	203	180	370	423	132		200		160		8-Ø19		19		3	180
100	229	190	435	475	156		220		180		8-Ø19		19		3	250
125	254	200	490	533	184		250		210		8-Ø19		19		3	250
150	267	210	567	609	211		285		240		8-Ø23		19		3	300
200	292	230	683	711	266		340		295		8-Ø23	12-Ø23	20		3	330
250	330	250	810	840	319		395	405	350	355	12-Ø23	12-Ø28	22		3	380
300	356	270	910	940	370		445	160	400	410	12-Ø23	12-Ø28	24. 5		4	380
350	381	290	1050	1110	429		505	520	460	470	16-Ø23	16-Ø28	24. 5	26.5	4	480
400	406	310	1170	1240	480		565	580	515	525	16-Ø28	16-Ø31	24.5	28	4	480
450	432	330	1300	1360	530	548	615	640	565	585	20-Ø28	20-Ø31	25.5	30	4	600
500	457	350	1380	1460	582	609	670	715	620	650	20-Ø28	20-Ø34	26.5	31.5	4	600
600	508	390	1650	1705	682	720	780	840	725	770	20-Ø31	20-Ø37	30	36	5	600
700	610	430	2150		794		895		840		24-Ø31		32. 5		5	
800	660	470	2390		901		1015		950		24-Ø34		35		5	
900	711	510	2700		1001		1115		1050		28-Ø34		37.5		5	
1000	811	550	2920		1112		1230		1160		28-Ø37		40		5	
1200	1015	630	3360		1328		1455		1380		32-Ø40		45		5	

GATE VALVE
MODEL FIG01

PRODUCTION STANDARDS

MODEL FIG01 I DN350 - DN600
PN10 - PN16

Design	EN 1171
Flange	EN 1092-2 PN10/PN16
Tests	EN 12266-1
Drive Form	Handwheel, Cap
Temperature	0-80º
Seal Test	11/18 Bar
Body Test	15/24 Bar



No	Name	Materials
1	Body	Ductile Iron
2	Disc	EPDM+Ductile iron
3	Bonnet Gasket	NBR
4	Stem	Stainless Steel
5	Bonet	Ductile Iron
6	Thrust Sleeve	Brass
7	Thrust Sleeve	Brass
8	Gland	Ductile Iron
9	Handwheel	Ductile Iron
10	Bolt	Stainless Steel
11	Flat Washer	Stainless Steel
12	Dustcover	NBR
13	O ring	NBR
14	Stem Nut	Bronze
15	Core	Ductile Iron
16	Screw	Stainless Steel
17	Screw	Stainless Steel
18	Lifting Bolt	Galvanized Cabon Steel