Fluidline

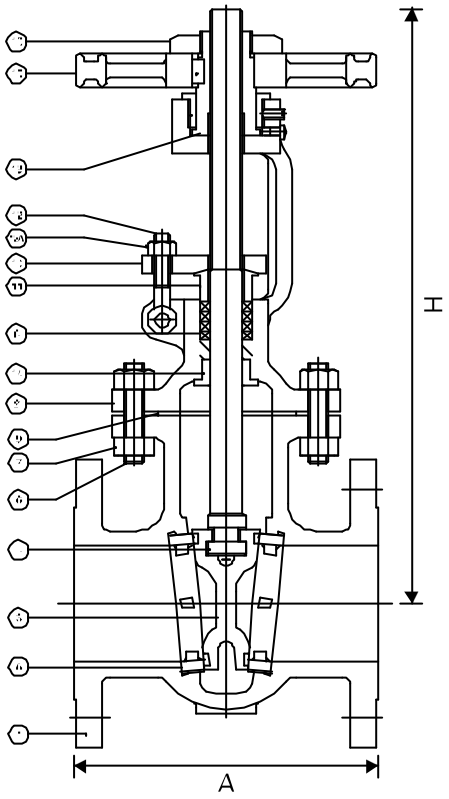
GATE, GLOBE & CHECK VALVES

600-0008
AN API 600 LICENSEE

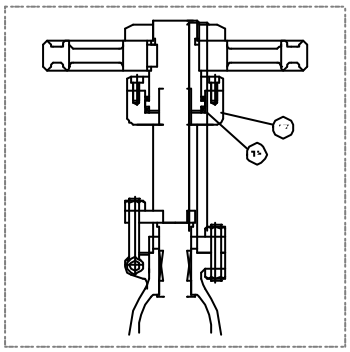
6D-0504
AN API 6D LICENSEE

AN ISO 9001 COMPANY

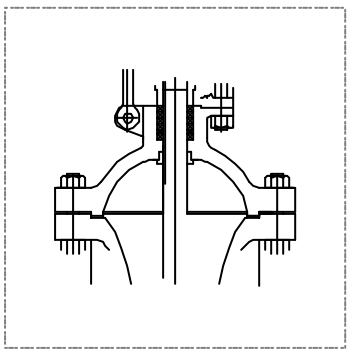
Fig. No GTV01



Yoke for 10" NB & above



Bonnet for 600 # Valves



Gate valves are straight-through flow valves which provide positive shutoff with minimal pressure drop and flow turbulence. The barrier to flow is a wedge sliding at right angles to the direction of flow.

Gate valves may be installed without consideration for the direction of flow. They are not recommended for use in a partially open, throttling position as erosion, noise and excessive wear can occur. Gate valve installations should always be made with consideration for the potential of bonnet over-pressurization caused by fluids which may become entrapped in the bonnet of a closed valve. Where this possibility exists, it is the user's responsibility to insure that proper venting is installed.

Fluidline Gate valves are of the out-side screw, rising stem design commonly called OS&Y. This type of design places the stem threads external to the valve so they are not contaminated by the flowing media and are accessible for lubrication. Also, the open/closed position of the valve is easily distinguished by the stem position.

Pressure seal bonnet gate valves have the same application features as bolted bonnet valves. The major difference is in the bonnet design.

The Pressure seal bonnet joint eliminates the body/bonnet flanges reducing weight and simplifying the application of exterior insulation. Contrary to bolted bonnet valves, internal pressure applied to a Pressure seal valve forces the sealing elements into tighter contact-the higher the internal pressure, the tighter the seal.

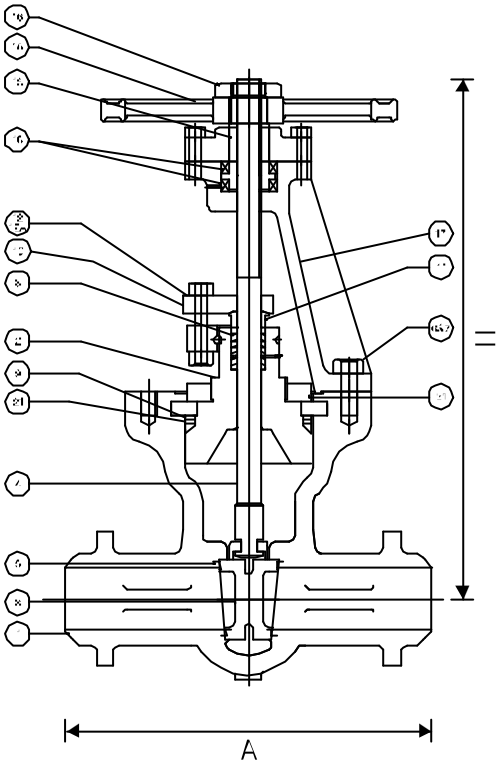
All Fluidline Gate valves have the following features engineered to provide convenience, durability and maintainability.

- Lubrication Fittings • Bearings O • Larger Sizes • Self-Aligning2-Piece Gland.
- Swing Eyebolts • Precision Backseat • Metallic Gaskets • Full Ported Body
- Replaceable Seat Rings • Comfortable Ductile Iron Handwheel Clearly Marked
- Polished Forged stem Precision Acme Threads are Weakest Point of Stem/Gate Train
- Generous Bonnet Bolting • Smooth Flow Path
- Fully Guided Flex Wedge has Ample Wear Allowance

SIZE INCH / MM		CLASS 150# A	H	WT in KG	CLASS 300# A	H	WT in KG	CLASS 600# A	H	WT in KG
2	50	178	395	22	216	420	28	291.2	505	45
2½	65	191	406	28	241.3	445	40	330.2	506	55
3	80	203.2	496	33	282.5	520	45	355.6	520	62
4	100	229	578	45	305	620	75	431.8	715	120
5	125	254	812	70	381	840	140	508	910	237
6	150	266.7	820	95	403	890	145	559	915	240
8	200	292	1006	120	419.1	1105	210	660.5	1150	340
10	250	330	1155	190	457	1350	375	787.5	1520	650
12	300	356	1400	240	501.6	1500	520	838.2	1650	1130
14	350	381	1590	350	762	1854	820	889	2032	1511
16	400	406.4	1900	450	838.2	2070	950	990.6	2135	1830
18	450	432	2050	820	914.4	2337	1550	1092	2390	2430
20	500	457.2	2362	910	990.6	2490	1950	1194	2660	2858
24	600	508	3220	1230	1118	2972	2300	1397	3050	3830
30	750	610	4180	2230	--	--	--	--	--	--

Fluidline

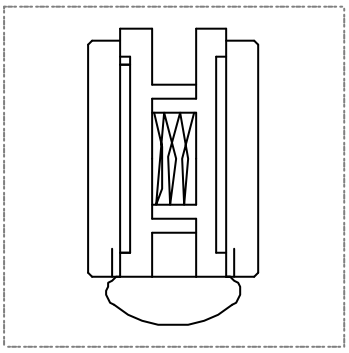
Fig. No. GTV031



CLASS #	TEST PRESSURES		
	HYDRAULIC BODY Kg/Cm² (PSIG)	HYDRAULIC SEAT / BACK SEAT Kg/Cm² (PSIG)	SEAT AIR Kg/Cm² (PSIG)
150	32 (455)	22 (315)	6 (80)
300	77 (1095)	55 (780)	6 (80)
600	155 (2200)	105 (1500)	6 (80)
900	236 (3360)	172 (2450)	6 (80)
1500	392 (5580)	287 (4080)	6 (80)
2500	621 (8830)	456 (6500)	6 (80)

• END TO END DIMENSION	ANSI B 16.10
• END CONNECTION	BUTTWELDING TO ANSI 16.25
• END CONNECTION	FLANGED & DRILLED AS PER ANSI B 16.5/R.F/RTJ
• MFG. STANDARD	API 600 / BS 1414
• TEST STANDARD	API 598 / BS 6755

Parallel Slide Double Discs



* Flanged Connection also offered.

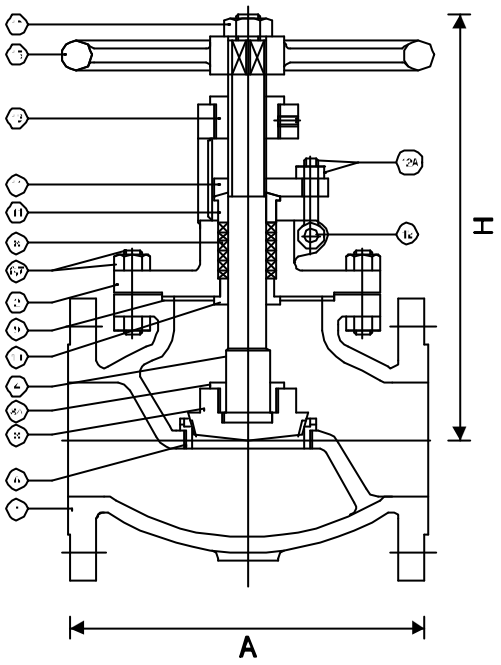
* Valves can be offered under API 600 Lic.

600-0008

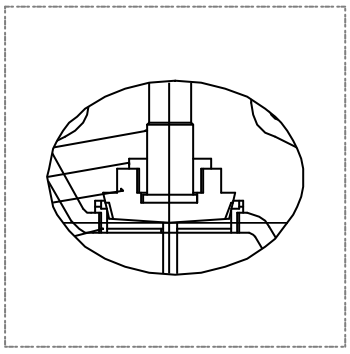
SIZE		CLASS 900#			CLASS 1500#			CLASS 2500#		
INCH	MM	A	H	WT in KG	A	H	WT in KG	A	H	WT in KG
2	50	368	622	55	368	622	55	451	772	68
2½	65	419	711	80	419	711	80	508	781	105
3	80	381	737	80	470	795	100	578	800	135
4	100	457	833	160	546	915	195	673	1054	220
6	150	610	1100	250	705	1200	290	914	1354	445
8	200	737	1350	435	832	1400	550	1032	1825	920
10	250	838	1580	682	991	1690	950	1270	2058	1130
12	300	965	1740	940	1130	1840	1300	1422	2280	1730
14	350	1029	1970	1150	1297	2100	1620	--	--	--
16	400	1130	2200	1650	1390	2415	2405	--	--	--

* For Materials refer page# 9

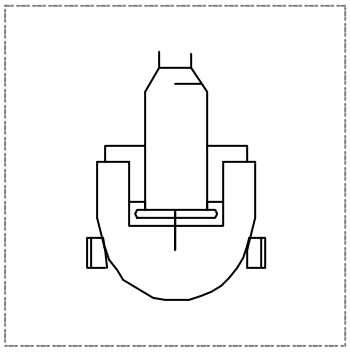
Fig. No. GBV011



Discs Guides for 8" NB & above



Parabolic Discs / Needle Discs for Control



Globe valves are primarily used in applications where a moderate control or regulation of flow is required. The internal passages within the valve divert this flow through two 90-degree changes of direction which results in pressure drop and turbulence significantly higher than straight-through valves such as gate or ball valves.

Globe valves are marked with flow direction arrows because they are recommended to be installed with flow and pressure under the disc. Dependent upon actual flow condition, they may, however, be installed in the reverse direction with flow and pressure over the disc.

The amount of force necessary to close a globe valve against pressure is much higher than for gate valves, but the distance the stem must travel from full open to close is much less. When globe valves are equipped with power actuators, they are sometimes purposely installed in the reverse flow direction in order to reduce the size of the actuator.

Angle valves are modified globe valves with the outlet at right angles to the inlet. Pressure drop and turbulence are less since the flow makes only one 90-degree change of direction. The use of an angle valve can save the cost of a fitting when such a change in flow direction is desired.

Pressure seal bonnet Globe valves have the same application features as bolted bonnet valves. The major difference is in the bonnet design.

The Pressure seal bonnet joint eliminates the body/bonnet flanges reducing weight and simplifying the application of exterior insulation. Contrary to bolted bonnet valves, internal pressure applied to a Pressure seal valve forces the sealing elements into tighter contact - the higher the internal pressure, the tighter the seal.

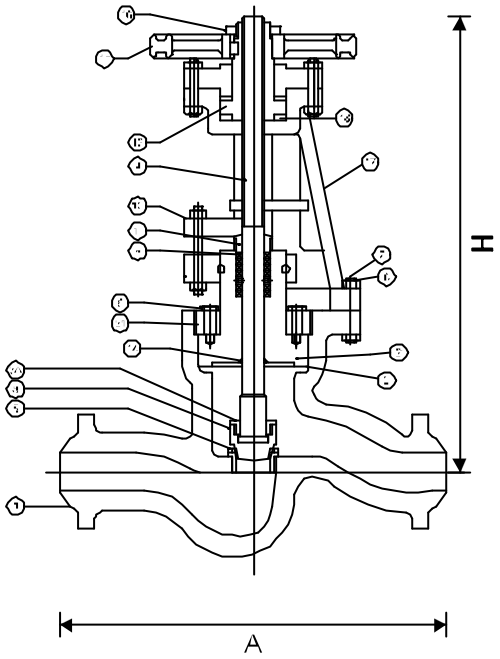
All Fluidline Globe and angle valves are engineered to provide convenience, durability and maintainability. They have the following Special features :

- Comfortable Ductile Iron Handwheel • Self-Aligning 2-Piece Gland • Swing Eyebolts
- Precision Backseat • Metallic Gaskets (Design varies With ANSI Class)
- Swivel Disc Guided By Stem Or Body • Choice of End Configurations
- Precision Ground stem • Threaded Seat Ring-Generous Cross Section
- Heavy Duty Body Contours For Flow

SIZE		CLASS 150#			CLASS 300#			CLASS 600#		
INCH	MM	A	H	WT in KG	A	H	WT in KG	A	H	WT in KG
2	50	203.2	390	18	267	440	30	292	508	35
2½	65	216	420	28	292	501	50	330	543	66
3	80	241.3	445	35	317.5	520	50	355.6	673	60
4	100	291.2	550	55	355.6	650	80	432	763	115
5	125	355.6	580	90	400	685	150	508	873	222
6	150	406.4	640	95	444.5	780	150	559	1025	230
8	200	495.3	740	150	559	830	260	660.5	1393	440
10	250	622.3	920	240	622.3	870	458	787.5	1453	862
12	300	698.5	1016	375	711	1120	760	838	1503	1011
14	350	787.4	1168	538	838	1320	1016	889	1563	1397
16	400	914.4	1400	635	863.5	1550	1383	990.6	1655	1769
18	450	978	1575	735	--	--	--	--	--	--
20	500	978	1800	1032	--	--	--	--	--	--
24	600	1295	1990	1270	--	--	--	--	--	--

Fluidline

Fig. No. G3V031



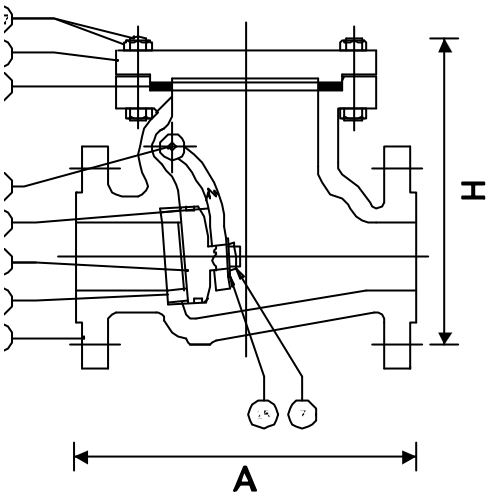
CLASS #	TEST PRESSURES		
	HYDRAULIC BODY Kg/Cm² (PSIG)	HYDRAULIC SEAT / BACK SEAT Kg/Cm² (PSIG)	SEAT (AIR) Kg/Cm² (PSIG)
150	32 (455)	22 (315)	6 (80)
300	77 (1095)	55 (780)	6 (80)
600	155 (2200)	105 (1500)	6 (80)
900	236 (3360)	172 (2450)	6 (80)
1500	392 (5580)	287 (4080)	6 (80)
2500	621 (8830)	456 (6500)	6 (80)

• END TO END DIMENSION	ANSI B 16.10
• END CONNECTION	FLANGED TO ANSI B 16.5/
• MFG. STANDARD	BUTTWELD TO ANSI 16.25 BS 1873 / BS 6755
• TEST STANDARD	API 598 / BS 6755

SIZE		CLASS 900#			CLASS 1500#			CLASS 2500#		
INCH	MM	A	H	WT in KG	A	H	WT in KG	A	H	WT in KG
2	50	368.3	700	85	368.3	700	85	451	720	95
2½	65	419.1	725	105	419.1	725	105	508	740	125
3	80	381	762	125	470	762	125	578	805	145
4	100	457.2	781	225	546	965	259	673	1010	325
6	150	610	905	390	705	1360	432	914	1490	555
8	200	737	1385	560	832	1625	660	1022	1665	768
10	250	838	1651	920	--	--	--	--	--	--
12	300	968	1810	1405	--	--	--	--	--	--
14	350	1029	2250	1750	--	--	--	--	--	--
16	400	1130	2995	2020	--	--	--	--	--	--

* For Materials refer page# 9

Fig. No. SWC 011



Check valves are single-direction flow valves used to allow unlimited flow in one direction and to restrain flow in the opposite direction.

Swing check valves are straight-through flow valves which rotates on a pin contained in the upper portion of the valve. The disc swings away from the seat upon exertion of fluid pressure on the upstream side. When the flow direction reverses, the reversal pressure and the weight of the disc close the disc against the seat, stopping backflow.

Swing check valves are best Suited for moderate velocity applications. Either too low or too high a line velocity can seriously damage the valve's internal parts. Valve damage can also be caused by rapid and frequent flow reversals, pulsation or excessive turbulence.

Swing check valves are normally designed for installation in horizontal lines. They may also be used in Vertical lines where the flow is upward under the disc.

Pressure seal bonnet check valves have the same application features as bolted bonnet valves The major difference is in the bonnet design.

The Pressure seal bonnet joint eliminates the body/bonnet flanges reducing weight and simplifying the application of exterior insulation. Contrary to bolted bonnet valves, internal pressure applied to a Pressure seal valve forces the sealing elements into tighter contact the higher the internal pressure, the tighter the seal.

All Fluidline Check valves are engineered to provide convenience, durability and maintainability. They have the following Special features :

- Cap lifting eye for easier maintenance (larger sizes)
- Rugged hinge to withstand shock loading.
- Precision solid disc pin. Easily removed through body side wall.
- Smooth inlet contour. ▪ Threaded seat ring generous cross-section.
- Metallic gaskets. ▪ Positives stop for disc open position. • Pinned disc nut.

SWC 021
for 8" x 600 # & above

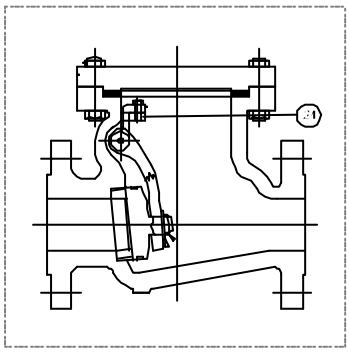
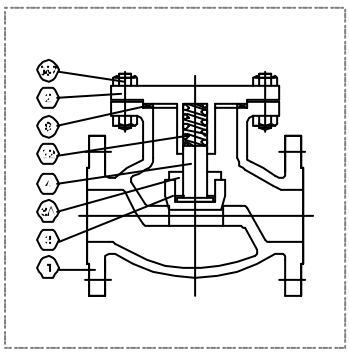


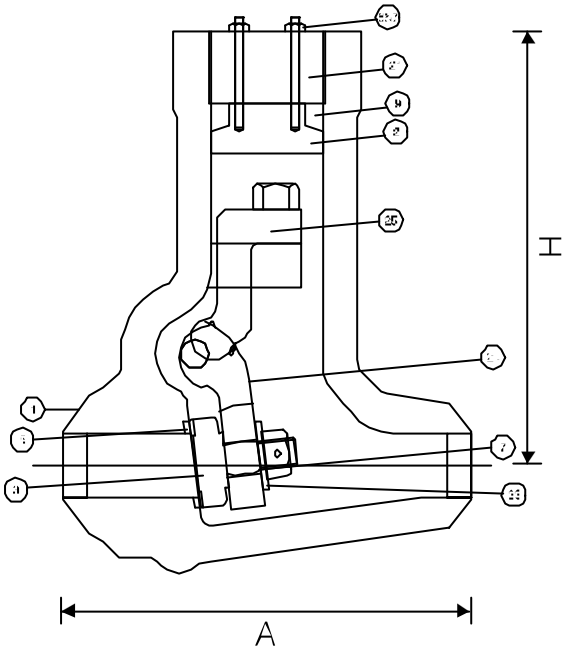
Fig No. LCV 011



SIZE		CLASS 150#			CLASS 300#			CLASS 600#		
INCH / MM		A	H	WT in KG	A	H	WT in KG	A	H	WT in KG
2	50	203	146	20	266.8	160	36	292	203	31
2½	65	216	158.8	25	292	185	52	330	228.6	55
3	80	214.3	178	33	318	215	50	356	235	65
4	100	292	203	45	355.6	235	67	432	285	120
5	125	330	228.6	64	400	235	70	508	292	235
6	150	356	260.6	89	444.5	305	125	559	330	235
8	200	495	305	130	533.4	362	256	660.5	365	380
10	250	622	356	210	622	393	360	787.4	456	650
12	300	696.5	393.7	281	711.2	444.5	510	838	584	850
14	350	787.4	444.5	390	838	465	608	889	630	995
16	400	863.6	495	475	863.6	525	745	990.5	686	1445
18	450	978	520.7	685	978	584	860	1092	720	1680
20	500	978	546	876	1016	610	1220	1197	825	2120
24	600	1295.5	622	1320	1346	710	1850	1397	885	2926

Fluidline

Fig. No. SWC 031



*Boltec Bonnet option as per Fig No. SWC021 can also be provided.

CLASS #	TEST PRESSURES		
	HYDRAULIC BODY Kg/Cm² (PSIG)	HYDRAULIC SEAT / BACK SEAT Kg/Cm² (PSIG)	SEAT (AIR) Kg/Cm² (PSIG)
150	32 (455)	22 (315)	6 (80)
300	77 (1095)	55 (780)	6 (80)
600	155 (2200)	105 (1500)	6 (80)
900	236 (3360)	172 (2450)	6 (80)
1500	392 (5580)	287 (4080)	6 (80)
2500	621 (8830)	456 (6500)	6 (80)

• END TO END DIMENSION	ANSI B 16.10
• END CONNECTION	FLANGED TO ANSI B 16.5/
• MFG. STANDARD	BUTTWELD TO ANSI 16.25 BS 1873 / BS 6755
• TEST STANDARD	API 598 / BS 6755

SIZE		CLASS 900#			CLASS 1500#			CLASS 2500#		
INCH	MM	A	H	WT in KG	A	H	WT in KG	A	H	WT in KG
2	50	368	178	70	368	178	70	451	225	85
2½	65	419	229	85	419	229	85	508	240	156
3	80	381	279	91	470	280	135	578	292	181
4	100	457	305	175	546	305	181	678	325	258
6	150	610	406	255	705	406	511	914	446	590
8	200	737	495	345	832	495	660	1022	545	1080
10	250	838	560	668	991	560	1250	1270	595	1830
12	300	968	698	1036	1130	715	1731	1422	715	2740
14	350	1029	735	1427	1257	770	1730	--	--	--
16	400	1130	886	1745	1384	935	2240	--	--	--

* For Materials refer page# 9

STANDARD MATERIALS FOR GATE, GLOBE & CHECK VALVES

PART NO	ITEM	CARBON STEEL	HIGH TEMPERATURE STEEL	STAINLESS STEEL	LOW TEMPERATURE CARBON STEEL
1	BODY	ASTM A 216 GR.WCB	ASTM A 217 GR.WC9	ASTM A 351 GR.CF8M	ASTM A 352 GR.LCB
2	BONNET / COVER	ASTM A 216 GR.WCB	ASTM A 217 GR.WC9	ASTM A 351 GR.CF8M	ASTM A 352 GR.LCB
3	WEDGE/DISC	ASTM A 216 GR.WCB	ASTM A 217 GR.WC9	ASTM A 351 GR.CF8M	ASTM A 352 GR.LCB
3A	SPINDLE NUT	ASTM A 276 TP 410	ASTM A 276 TP 410	ASTM A 276 TP 316	ASTM A 276 TP 316
4	SPINDLE / HINGE PIN	ASTM A 276 TP 410	ASTM A 276 TP 410	ASTM A 276 TP 316	ASTM A 276 TP 316
'O' 5	SEAT RINGS	13%CR./STELLITED	HF WITH STELLITED	INTEGRAL	ASTM A 276 TP 316
6	BONNET STUD	A 193 GR.B7	A 193 GR.B7	A 193 GR.B8	A 193 GR.L7
7	BONNET STUD NUT	A 194 2H A 194GR.2H	A 194 2H	A 194 GR.8	A 194 GR.7
'O' 8	GLAND PACKING	GRAPHITED ASBESTOS	GRAPHITED ASBESTOS	PTFE / BRAIDED	PTFE / BRAIDED
		(-) 2 GRAPHITE RINGS	(+) 2 GRAPHITE RINGS	GRAPHITE RINGS PTFE	GRAPHITE RINGS
9	GASKET	REFER CHART BELOW			
10	GLAND FLANGE	ASTM A 105	ASTM A 105	STAINLESS STEEL GR 316	STAINLESS STEEL GR.304
11	GLAND	ASTM A 276 TP 410	ASTM A 276 TP 411	S.S. 316	S.S. 304
12/12A	EYE BOLT / NUT	ASTM A 307 GR. B	ASTM A 307 GR. B	ASTM A 307 GR. B	ASTM A 307 GR. B
'O' 13	YOKE SLEEVE / NUT	AISI 4140 / ASTM A 439 D2	AISI 4140 / ASTM A 439 D2	AISI 4140 / ASTM A 439 D2	AISI 4140 / ASTM A 439 D2
14	BONNET BUSH	ASTM A 276 TP 410	ASTM A 276 TP 316	ASTM A 276 TP 410	ASTM A 276 TP 410
'O' 15	HAND WHEEL	CAST IRON	CARBON STEEL	CARBON STEEL	CARBON STEEL
16	HAND WHEEL NUT	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
17	YOKE	ASTM A 216 GR.WCB	ASTM A 217 GR.WC9	ASTM A 351 GR.8M	ASTM A 352 GR.LCB
'O' 18	BEARING	SKF / FAG	SKF / FAG	SKF / FAG	SKF / FAG
19	VALVE PLATE	ALUMINIUM	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
20	GEAR BOX	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
21	RETAINER RING & PRESSURE SEAL RING	A182 F6 A182 GR.F6	A 182 F6	A182 F6	A182 F304
22	SPRING	S. S. 316	INCONEL 750	S. S. 316	S. S. 316
23	LEVER	ASTM A 216 GR.WCB	ASTM A 217 GR.WC9	ASTM A 351 GR.CF8M	ASTM A 352 GR.LCB
24	BRACKET	ASTM A 216 GR.WCB	ASTM A 217 GR.WC9	ASTM A 351 GR.CF8M	ASTM A 352 GR.LCB

BONNET GASKET OPTIONS

150#	:	C.A.F/SOFT IRON/SPIRAL WOUND WITH FILLER
300# / 600#	:	S.S. 316 SPIRAL WOUND WITH GRAPHITE FILLER
900# / 1500#	:	OCTAGONAL RING TYPE (RTJ) / PRESSURE SEALED RING
2500#	:	PRESSURE SEALED RING

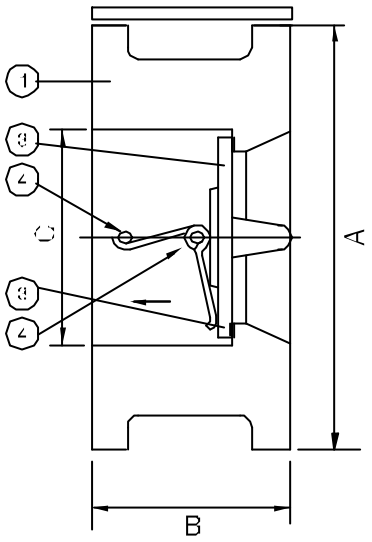
ALTERNATE MATERIAL GRADES:

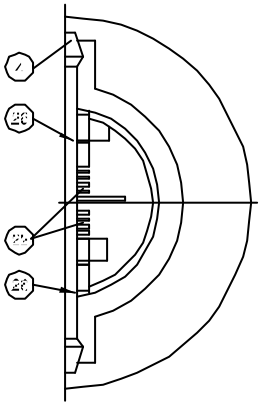
ALLOY STEEL	-WC6, C5, C12
STAINLESS STEEL	-CF8, CF3, CF3M, CN7M DUPLEX STAINLESS STEEL, SUPER DUPLEX STAINLESS STEEL Ni-Cr, Ni - Cu
(MONEL)	
NON FERROUS	BRONZE - BS 1400 LG2/ASTM B 62 ALUVINIUM BRONZE - BS 1400 AB2

* ITEMS MARKED AS 'O' ARE AVAILABLE AS OPERATIONAL SPARES .

Fluidline

Fig. No. DPC011





Low Cost / Quick Closing / Reduce Water Hummer Effects

Wafer style body Valves are designed with flange less relatively short face-to-face dimensions. They are clamped between matching flanges which are connected by studs and nuts.

SIZE INCH	SIZE MM	Series	Type Facing	A mm	A in	B mm	B in	C mm	C in	Weight Kg	Weight lbs
2	50	150	RF / RJ - 22	105	4 1/8	60	2 3/8	60	2 3/8	2.7	6
		300-600	RF / RJ - 23	117	4 3/4	60	2 3/8	60	2 3/8	6.4	14
2½	65	150	RF / RJ - 25	124	4 7/8	67	2 5/8	73	2 7/8	4.5	10
		300	RF / RJ - 26	130	5 1/8	67	2 5/8	73	2 7/8	5.0	11
		600	RF / RJ - 26	130	5 1/8	67	2 5/8	73	2 7/8	5.0	11
3	80	150	RF / RJ - 29	137	5 3/8	73	2 7/8	89	3 1/2	5.9	13
		300-600	RF / RJ - 31	149	5 7/8	73	2 7/8	89	3 1/2	6.8	15
4	100	150	RF / RJ - 36	175	6 7/8	73	2 7/8	114	4 1/2	7.7	17
		300	RF / RJ - 37	181	7 1/8	73	2 7/8	114	4 1/2	8.2	18
		600	RF / RJ - 37	194	7 5/8	79	3 1/8	114	4 1/8	11.8	26
6	150	150	RF / RJ - 43	222	8 3/4	98	3 7/8	168	6 5/8	16	35
		300	RF / RJ - 45	251	9 7/8	98	3 7/8	168	6 5/8	20	45
		600	RF / RJ - 45	267	10 1/2	137	5 3/8	168	6 5/8	36	80
8	200	150	RF / RJ - 48	279	11	127	5	219	8 5/8	32	70
		300	RF / RJ - 49	308	12 1/8	127	5	219	8 5/8	37	82
		600	RF / RJ - 49	327	12 5/8	165	6 1/2	219	8 5/8	61	135
10	250	150	RF / RJ - 52	340	13 3/8	146	5 3/4	273	10 3/4	48	106
		300	RF / RJ - 53	340	13 3/8	146	5 3/4	273	10 3/4	57	125
		600	RF / RJ - 53	400	15 3/4	214	8 3/4	273	10 3/4	108	238
12	300	150	RF / RJ - 56	410	16 1/8	181	7 1/8	324	12 3/4	78	172
		300	RF / RJ - 57	422	16 5/8	181	7 1/8	324	12 3/4	91	200
		600	RF / RJ - 57	457	18	229	9	324	12 3/4	151	333
14	350	150	RF / RJ - 59	457	17 3/4	184	7 1/4	356	14	91	200
		300	RF / RJ - 61	486	19 1/8	222	8 3/4	356	14	147	325
		600	RF / RJ - 61	492	19 3/8	273	10 3/4	356	14	206	455
16	400	150	RF / RJ - 64	517	20 1/8	191	7 1/2	406	16	125	275
		300	RF / RJ - 65	517	20 1/8	232	9 1/8	406	16	188	415
		600	RF / RJ - 65	565	22 1/4	305	12	406	16	290	640
18	450	150	RF / RJ - 68	549	21 5/8	203	8	457	18	143	315
		300	RF / RJ - 69	597	23 1/2	264	10 3/8	457	4	252	555

SPECIFICATIONS

- MFG STD. : API 594 / API 6D (LIC. NO. 0504)
- TEST & INSPECTION : API 598

GEAR OPERATORS

Fluidline gate and globe valves are supplied with fully enclosed bevel gear operators as a standard for sizes and class ratings as shown in the table below. Gear Operators are available as an opinion in other sizes too.

Valve Type	ASME Class	Standard
Gate	150	24" & above
	300	20" & above
	600	16" & above
	900	8" & above
	1500	6" & above
	2500	6" & above
Globe	150	10" & above
	300	10" & above
	600	6" & above
	900	6" & above
	1500	6" & above

ELECTRICAL ACTUATORS

BRANDS OFFERED : ROTORK / AUMA / EIM / LIMITORQUE

Electrical Actuators may be used with FVC valves in all sizes and class ratings. The actuators can be operated in practically any position or location, and have a provision for manual operation. The actuators come in weatherproof enclosure as a standard, and in explosion-proof and such other special enclosures too. For correct selection of actuator, please specify the following :

A. Line Pressure & Temperature

B. Operating Time

C. Power Supply

D. Accessories

BYPASS ARRANGEMENT

A by pass arrangement serves two purposes - first, in steam services, to warm up line before opening the main valve, and secondly, in steam and other lines, to balance the pressure on both sides of the main valve wedge or disc to bring down the valve opening torque.

As an option, almost all FVC valves can be furnished with bypass arrangement. The bypass consists of a single Outside Screw & Yoke globe valve with a pressure / temperature rating and corrosion resistance equal to or exceeding that of the main valve.

SIZE CHART			
Main Valve	2" to 4"	5" to 8"	10" or other
Bypass Valve	½"	¾"	1"

CHAIN WHEELS

Chain wheels are used for the valves located too far above the floor for convenient handwheel operation. Chain wheels are available for all types of FVC Ga be substituted in place of or used along with the existing handwheel. FVC chain wheels are equipped with guards or guides, not only to keep the chain from slipping off the wheel but also to hold the chain in close contact with a large portion of the circumference of the handwheel or the gear wheel.

LANTERN RING

As mentioned earlier, a lantern ring is used to provide further integrity to the gland area in gate and globe valves, to prevent escape of service fluid to the atmosphere. This finds application in stringent environmental conditions or in the case of potentially harmful service fluids.

The lantern ring is provided between two set packing rings, with a leakoff plug that gives the option of removal of leaka ng rings. Alternatively, a sealing fluid can be introduced through the plug to prevent incidental leakage through the plug to prevent incidental leakage through the lower packing rings.

Lantern rings serve a useful purpose. But, since there are a possible source of shaft scoring, it is advisable to restrict their usage to essential applications.

SOFT SEATED VALVES

In applications that require positive shut-off such as in chemical and petrochemical services, the FVC Soft-seated Gate Valve is a suitable solution.

PTFE seat inserts provide the necessary soft-seating to ensure positive shut-off.

Salient features of these valves are:

- PTFE seat inserts for positive shut-off
- Dual seating (metallic and soft seats)
- Intrinsically fire-safe
- Bubble-tight performance

All Fluidline gate valves can be offered with the option of soft-seating for sizes up to 8" (200 mm).

SPECIAL SERVICE VALVES

FVC offers a wide variety of valves for special applications that ca anures and special testing.

- Valves for Hydrogen service which are pressure tested with Helium
- Valves for Dowtherm service
- Valves for sour gas services, conforming to NACE specifications of different Indian and overseas customers and consultants
- Valves for Chlorine service, having special trims like Monel or Hastelloy C
- Y-type stop Check Valves
- High Temperature Valves for above 800° C Services.

ValvesforthePetroleum,PowerGeneration,Chemicals,FertilizerandSteel Industry.

FORGEDSTEELVALVES:
Gate/Globe/LiftCheckValves

Size	:	1/2”to2”
PressureRating	:	ANSIClass150#to2500#
Ends	:	SocketWeld/Screwed-NPT/BSPends
Material	:	ForgedCarbonSteel(ASTMA105)ForgedStainlessSteel (ASTMA182F304/F316/F316L/F11/F22).


Forged Steel Gate Valves

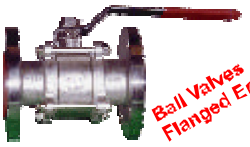
CASTIRON(WATERWORKS)VALVES:GATE/GLOBENONRETURNVALVES:

Size	:	2”to40”-Gate/Check2”to12”-GlobeValves
PressureRating	:	ANSI125#,IS14846,IS5312,IS9338, DINPN-10/16.


Cast Iron Gate Valves

BALLVALVES

Sizes	:	2”to20”
Rating	:	Class150#toclass2500#
Seating	:	PTFE/GRAFHITE
Materials	:	CastCarbonSteel(ATMA216GRWCB) CastAlloySteel(ASTMA217GRWC-6/9) CastStainlessSteelASTMa352GR.CF8/CF8M/ CF3M)Investmentcasting(CF8/CF8M/WCB) FireSafeBallValveswithtestingfacilitycanalsobegiven.


Ball Valves Flanged Ends

BRONZEVALVES
Gate/Globe/CheckValves

Size	:	1/2”to3”Flanged/ScrewedEnds-BSP/NPT(F) (F)IntegralseatedvalvesRising/Nonrisingstemdesign


Ball Valves Screwed Ends

STRAINERS

Size	:	2”to24”
Type	:	Simplex/Duplex
Ends	:	Flanged/ButtWeld/RingJoint
PressureRating	:	ANSIClass150#to1500#
Materials	:	CastCarbonSteel(ASTMA216GRWCB) CastAlloySteel(ASTMA352GR.WC-6/9) CastStainlessSteel(ASTMA352GR.CF8/ CF8M/CF3M)CastIron/FabricatedSteel
MeshSize	:	24/32/40/80/100/250

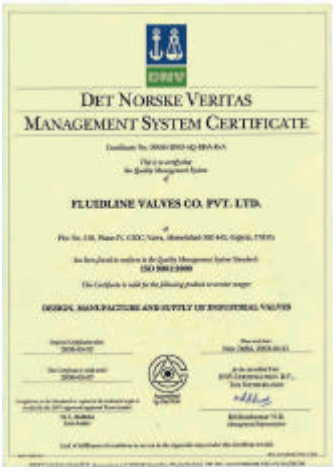

Strainers

BUTTERFLYVALVES:

Size	:	2”to40”
Seating/Lining	:	Nitrile/Buna-N/Hypalon/Viton/PTFE
Type	:	Flanged/Wafer
Materials	:	CastIron(IS210FG200-260) CastCarbonSteel(ASTMA216GRWCB)CastAlloysteel (ASTMA217GR.WC-6/9)Caststainlesssteel(ASTMA 352Gr.CF8/ CF8M/CF3M)


Butterfly Valves

AN API 6D LICENSEE



ISO-9001 CERTIFICATE

AN API 6D LICENSEE

OUR OTHER PRODUCTS :

- FORGED BODY - GATE, GLOBE AND CHECK VALVES
- BALL VALVES
- PIPELINE STRAINERS
- DUAL PLATE CHECK VALVES
- SPECIAL SERVICE VALVES
- CAST IRON VALVES FOR WATER WORKS
  (GATE (SLUICE), GLOBE AND CHECK VALVES)
- BUTTERFLY VALVES

Fluidline

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Dealer / Representative :