



BLANDITIIS PRAESENTIUM VOLUPTA DELENITI ATQUE CORRUPTI QUOS DOLORES

Blanditiis Praesentium Volupta Deleniti Atque Corrupti Quos Dolores













Et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio

SECTORS WE SERVE







Pharma



Oil & Gas





Fertilizers



www.ipcvalves.com



INDEX

	Dual Plate Check Valve	00
•	Forged Gate, Globe & Check Valve	00
•	Knief Edge Gate Valve	00
•	QC Check Valve Brochure	00
•	Single Plate Wafer Check Valve	. 00
•	Gate valve with electric actuator	00
•	Globe valve with electric actuator	00



DUAL PLATE CHECK VALVE



FEATURES

- Very compact in size as compared to a Swing check Valve
- Inherently light weight by the virtue of its design
- Due to split disc design slamming of disc during closure of the valve is considerably reduced
- While opening disc does not have to overcome gravity
 Hence it is quick to respond to the flow pressure

juick to respond to the flow pressure

SPECIFICATIONS

Codes & Standards

General design & mfg	AEME B 16.34 / API 594
 Face to face dimensions 	API 594
Inspection and testing	API 598 / BS EN 12266 Part 1
 Flange drilling 	ASME B16.5

Technical Specifications

Seat type	Integrally moulded with the body
End connection	Wafer / Lug / Double flanged
Size range	DN 40 to DN 600
 Pressure rating 	PN10 / PN16
 Operating temp. range 	-29 C to 200 C / -29 C to 400 C
 Seat leakage 	Tight shut off (uni-directional)
Operation	Self

Standard Material of Construction (MOC)

Valve body	WCB / CF8 / CF8M /CF3M
Valve disc	WCB /CF8 / CF8M/ CF3M
Seat	BUNA-N / VITON / SS316 / SS410
Spring	SS 316 / INCONEL X 750
Hing Pin	SS 304 / SS 316 / SS304L

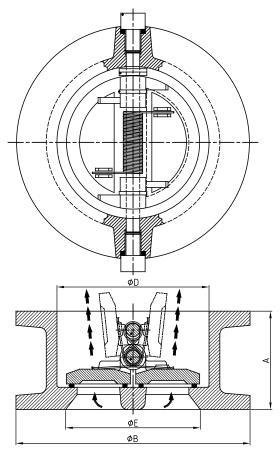


IPC VALVES DUAL PLATE CHECK VALVE



DUAL PLATE CHECK VALVE

GENERAL ARRANGEMENT



SI	ZE		#1	150			#3	300			#6	500	
NPS	DN	Α	ØΒ	ΦE	ΦD	Α	ØΒ	ΦE	ΦD	Α	ØΒ	ΦE	ΦD
2"	50	60	104	51	60	60	111	51	64	60	111	61	64
3"	80	73	136	74	73	73	149	74	94	73	148	74	94
4"	100	73	174	97	114	73	180	97	118	79	194	97	118
6"	150	98	221	146	188	98	260	146	172	137	267	148	168
8"	200	127	278	194	219	127	308	194	222	165	321	194	219
10"	250	146	339	243	273	146	360	243	275	213	400	243	273
12"	300	181	408	259	324	181	421	259	328	229	457	289	324
14"	350	184	449	318	356	184	484	318	358	273	492	316	356
16"	400	191	511	381	406	232	538	381	408	305	585	364	406
18"	450	203	549	429	457	264	597	429	457	362	613	410	457
20"	500	219	606	478	608	292	654	478	508	368	683	456	508
24"	600	222	718	575	610	318	775	575	610	438	791	548	610





FORGED GATE, GLOBE & CHECK VALVE



ABOUT FORGED GGC VALVES

Our range of forged Gate, Globe & Check Valves have several design features which ensure sturdy construction and consistent operation. These valves are suitable for all the segments of industry including chemical, petrochemicals, pharma, steel, food, power and utilities like water, steam etc.

Our Gate & Globe Valves can be provided with electrical actuator operation wherever required.

Available with various end connections like socket weld, butt weld, screwed & flange ends. Material requirements for special applications like sour service, oxygen service etc. can be effectively catered to.



KEY FEATURES

- Designed as per are ASME B16.34 / API 602 / IBR
- Compact and sturdy design
- Outside screw & yoke (OS & Y) construction (for gate & globe valve)
- Stronger and corrosion resistant bolting ensures long life and better sealing
- Various trim materials are available (in accordance with API 602)
- Gland packings can be replaced without removing the valve from the pipeline
- Actuated valves can be provided with pneumatic / electrical actuator
- In pressure classes #1500 and above, bonnets come in welded design
- Lift check valve can be used in horizontal as well as vertical pipelines
- Valves are available in socket weld, butt weld, screwed and welded flanged end connections



FORGED GATE VALVE



SPECIFICATIONS

Codes & Standards

General design & mfg	API 602/ISO 15761/ASME B 16.34
 Pressure temp rating 	ASME B 16.34
 Face to face dimensions 	Manufacturer's standard
Inspection and testing	API 598 / BS 12266-1
End connections	ASME B 16.11

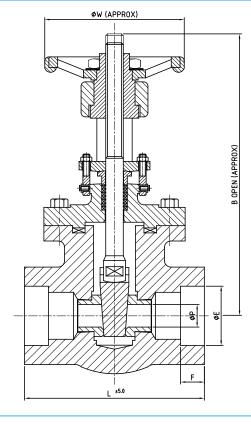
Technical Specifications

Valve type	Outside Screw and Yoke (OS&Y), bolted/welded bonnet
Construction type	Rising stem, non-rising handwheel, standard port
End connection	Socket Weld, Screwed, Butt Weld and welded flanged
Size range	DN 15 to DN 50
 Seat leakage 	API 598
 Pressure class 	#800, #1500, #2500, #4500
Operation	Handwheel / Actuated (electrical/pneumatic)

Standard Material of Construction (MOC)

Valve Body	A105/ F11. Cl.2 / F22 Cl. 3/ F91 / F304 / F 316			
Wedge	CA15 / CF8 / CF8M			
Valve Seat	SS410 / SS304 / SS316			
Stem	SS410 / SS304 / SS316			

GENERAL ARRANGEMENT



Class #800

SIZE	NPS	1/2"	3/4"	1"	1 1/2"	2"
SIZE	DN	15	20	25	40	50
ø P (Min)	9	12	17	28	36
L		85	90	105	127	150
В		160	175	200	270	310
ΦD		1/2" NPT	3/4" NPT	1" NPT	1 1/2" NPT	2" NPT
F2 (Min)		14	14	17.5	18.5	19.5
ΦE		22.2/21.8	27.6/27.2	34.3/33.9	49.2/48.8	61.7/61.2
F (Mi	n)	9.5	12.5	12.5	12.5	16
ØW (APR	X)	100	100	105	150	150
WEIGHT~		1.8	2.4	3.2	7.0	10

Class #1500

CI	SIZE	NPS	1/2"	3/4"	1"	1 1/2"	2"
31		DN	15	20	25	40	50
	øΡ (Min)	9	12	15	27	34
	L		90	105	127	150	245
В			175	200	270	310	350
	ΦD		1/2" NPT	3/4" NPT	1" NPT	11/2" NPT	2" NPT
	F2 (M	1in)	14	14	17.5	18.5	19.5
	ΦE		22.2/21.8	27.6/27.2	34.3/33.9	49.2/48.8	61.7/61.2
	F (Mi	n)	9.5	12.5	12.5	12.5	16
ø١	W (APR	X)	100	105	150	150	200
W	EIGHT~		2.4	3.2	7.0	10	13

(All dimensions are in mm)



FORGED GLOBE VALVE



SPECIFICATIONS

Codes & Standards

General design & mfg	API 602/ISO 15761/ASME B 16.34
 Pressure temp rating 	ASME B 16.34
 Face to face dimensions 	Manufacturer's standard
Inspection and testing	API 598 / BS 12266-1
End connections	ASME B 16.11

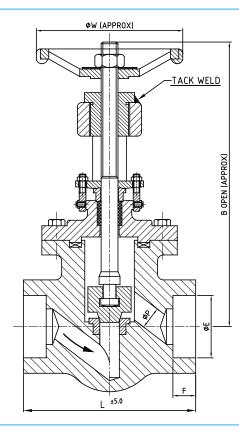
Technical Specifications

recinited Specifications	recimical opecinications						
Valve type	Outside Screw and Yoke (OS&Y), bolted/welded bonnet						
Construction type	Rising stem, rising handwheel, standard port						
End connection	Socket Weld, Screwed, Butt Weld and welded flanged						
Size range	DN 15 to DN 50						
 Seat leakage 	API 598						
Pressure class	#800, #1500, #2500, #4500						
Operation	Handwheel / Actuated (electrical/pneumatic)						

Standard Material of Construction (MOC)

Valve Body	A105/ F11. Cl.2 / F22 Cl. 3/ F91 / F304 / F 316
Plug	CA15 / CF8 / CF8M
Valve Seat	SS410 / SS304 / Ss316
Stem	SS410 / SS304 / Ss316

GENERAL ARRANGEMENT



Class #800

SIZE	NPS	1/2"	3/4"	1"	1 1/2"	2"
SIZE	DN	15	20	25	40	50
Φ P (I	Min)	9	12	17	28	36
L		85	90	105	127	150
В		160	175	200	270	310
ΦD		1/2" NPT	3/4" NPT	1" NPT	1 1/2" NPT	2" NPT
F2 (M	lin)	14	14	17.5	18.5	19.5
ΦE		22.2/21.8	27.6/27.2	34.3/33.9	49.2/48.8	61.7/61.2
F (Mi	n)	9.5	12.5	12.5	12.5	16
ØW (APR	X)	100	100	105	150	150
WEIGHT~		1.8	2.4	3.2	7.0	10

Class #1500

SIZE	NPS	1/2"	3/4"	1"	1 1/2"	2"
SIZE	DN	15	20	25	40	50
Φ P (I	Min)	8	9	14	25	27
L		90	105	127	150	245
В		175	200	270	310	350
ΦD		1/2" NPT	3/4" NPT	1" NPT	11/2" NPT	2" NPT
F2 (M	lin)	14	14	17.5	18.5	19.5
ΦE		22.2/21.8	27.6/27.2	34.3/33.9	49.2/48.8	61.7/61.2
F (Mi	n)	9.5	12.5	12.5	12.5	16
ØW (APR	X)	100	105	150	150	200
WEIGHT~		2.4	3.2	7.0	10	13

(All dimensions are in mm)

0 0

FORGED CHECK VALVE



SPECIFICATIONS

Codes & Standards

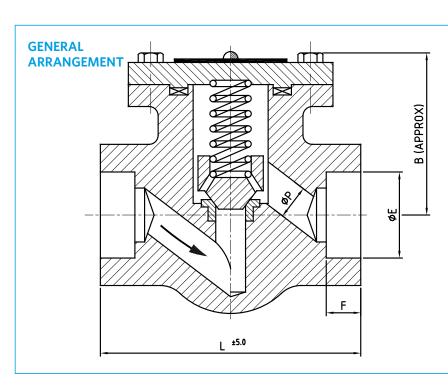
General design & mfg	API 602/ISO 15761/B 16.34
 Pressure temp rating 	ASME B 16.34
 Face to face dimensions 	Manufacturer's standard
Inspection and testing	API 598 / BS 12266-1
End connections	ASME B 16.11, ASME B 16.25

Technical Specifications

Valve type	Forged Steel Bolted / Welded Cover
Construction type	Standard port, Bolted / welded bonnet
End connection	Socket Weld, Screwed, Butt Weld, welded flanged end
 Size range 	DN 15 to DN 50
 Seat leakage 	API 598
 Pressure rating 	#800, #1500, #2500, #4500
Operation	Self operating

Standard Material of Construction (MOC)

Valve Body	A105/ F11. Cl.2 / F22 Cl. 3/ F91 / F304 / F 316
Plug	CA15 / CF8 / CF8M
Valve Seat	SS410 / SS304 / Ss316
Spring	Ss316



Class #800

SIZE	NPS	1/2"	3/4"	1"	1 1/2"	2"	
31,	ZE	DN	15	20	25	40	50
	ØΡ	(Min)	9	12	17	28	36
	L		85	90	105	127	150
	В		55	60	70	105	135
	ΦD		1/2" NPT	3/4" NPT	1" NPT	1 1/2" NPT	1 1/2" NPT
	F2 (I	Min)	14	14	17.5	18.5	18.5
	ΦE		22.2/21.8	27.6/27.2	34.3/33.9	49.2/48.8	49.2/48.8
	F (M	in)	9.5	12.5	12.5	12.5	12.5
W	EIGHT~		1.2	1.6	2.4	5.4	7.5

Class #1500

CIZE	NPS	1/2"	3/4"	1"	1 1/2"	2"
SIZE	DN	15	20	25	40	50
Ø P (I	Min)	8	9	14	25	27
L		90	105	127	150	245
В		60	70	105	135	150
ΦD		1/2" NPT	3/4" NPT	1" NPT	11/2" NPT	2" NPT
F2 (M	1in)	14	14	17.5	18.5	19.5
ΦE		22.2/21.8	27.6/27.2	34.3/33.9	49.2/48.8	61.7/61.2
F (Mi	n)	9.5	12.5	12.5	12.5	16
WEIGI	HT~	1.6	2.4	5.4	7.5	10

(All dimensions are in mm)





KNIFE EDGE GATE VALVE



FEATURES

- These valves can be supplied in both uni-directional and bidirectional configuration
- Manual valves available with either hand wheel or gear
- Both soft seated and metal seated valves are available
- Lug type cast stainless steel body
- Available size range of DN 50 to DN 600 (consult factory for larger sizes)
- Automated valves are available with either pneumatic or electric actuation
- Automated valves can be supplied with various accessories like Limit switches, Air lock relays, Flow control valves, Volume boosters, Position transmitters etc.

SPECIFICATIONS

Codes & Standards

General design & mfg	MSS SP 81
 Face to face dimensions 	Manufacturer's Standard
Inspection & testing	MSS SP 81
 Flange drilling 	ASME B 16.5

Yoke

Technical Specifications	
Valve type	Knife Edge Gate Valve
Body type	Single piece cast
Seat type	Soft / Metal Seated
End Connection	Wafer Sandwiched
Size range	DN40 to DN600
Pressure rating	PN10, PN16
 Operating temperature range 	-29°C to 200°C
Seat leakage	Tight shut of (Bi-directional)
 Operation Standard Material of Construction (MOC) 	Handlever /Gear/Actuated (Pneumatic/ Electric)
Valve Body	ASTM A126 CLASS 'B'(CI)/ASTM A 216 Gr. WCB/ASTM A 351 Gr.CF8/ASTM A 351 Gr.CF8M/ASTM A 351 Gr.CF3M
Gate	SS304/SS316/SS316L/SS410
Seat	PTFE/RPTFE/EPDM/VITON/METAL
Stem	EN8/SS410(MANUAL)
 Gland Follower 	ASTM A 351 Gr.CF8/ASTM A 351 Gr.CF8M/ASTM A 351 Gr.CF3M

Carbon steel



IPC VALVES KNIFE EDGE GATE VALVE



KNIFE EDGE GATE VALVE

The Knife edge Gate Valve is widely used in industries such as Water treatment plants, Mining, Paper, Power, Chemical Plants, Food, Beverage etc. These valves are designed as per MSS SP-81 and are basically used for general service applications.

GENERAL ARRANGEMENT FLANGE DIMENSION & DRILLING DATA (as per ASME B 16.5) VALVE DIMENSION DATA **CYLINDER** DN Α PCD TAPPING SIZE MAX 80 x 65MM 360 295 150#(121 MM) 5/8" 48 150#(152 MM) 80 x 90MM 5/8" 80 51 410 320 100 100 x 125MM 51 498 373 150#(191 MM) 5/8" I 125 x 175MM 150#(241 MM) 3/4" 150 57 624 449 200 125 x 225MM 70 807 582 150#(298 MM) 3/4" 150#(362 MM) 250 160 x 275MM 70 923 648 7/8" 150#(432 MM) 200 x 325MM 1058 733 7/8" 350 150#(476 MM) 1" 200 x 375MM 76 1165 790 150#(540 MM) 400 200 x 425MM 1295 870 1" 150#(578 MM) 450 250 x 475MM 1647 967 1 1/4" 89 150#(635 MM) 1 1/4" 250 x 510MM 114 1791 1061 ă 150#(749 MM) 250 x 625MM 114 2028 1198 600 1 1/4"





CHECK VALVE
QUICK CLOSING
NON-RETURN VALVE

Quick closing non-return valves mainly used in the turbine extraction pipelines that supply steam to the primary-secondary heater, auxiliary turbines and other equipment. They prevent reversal of flow and provide a quick positive shut off, thus limiting damage to the source equipment in the event of a trip.



KEY FEATURES

- Closing in less than a second
- Complete disc closure at no flow condition
- Reliable reverse flow prevention
- Side mounted pneumatic spring return actuator

BENEFITS

- Protects sophisticated systems & equipment from damage
- Compact actuator for reduced footprint
- Reduced pressure loss

SPECIFICATIONS

Codes & Standards

	Pressure rating	#150 through #2500
•	Sizes	4" TO 24" (DN-100 TO DN-600)
•	Mfg. standards	API 594 / BS 1868 / ASME B16.34
•	Flange details	STD AS PER ASME B16.5; OTHERS AS PER BS, AWWA, EN, DIN
•	End to end dimensions	AS PER ASME B16.10
•	Testing standards	API 598 / BS EN 12266-Part 1 & Part 2
•	Buttweld end details	AS PER ASME B 16.25



IPC VALVES CHECK VALVE



QUICK CLOSING NON-RETURN VALVE

OPERATION

These special type of swing-disk check valves are usually installed on the turbine steam bleeding lines of the feedwater preheating stages of modern power station cycles. The main function is the quick shut Off Of the bleeding steam pipes, in case of loss of turbine load, to prevent the dangerous water carryover from the preheater back to the turbine.

Usually the actuator is composed of a pneumatic single acting actuator (Spring Return).

The actuator is mounted on one side of the swing check valve body and connected to the valve disk through shaft.

The actuator air pressure range is typically between 4 and 8 bar.

Under manual operation conditions, compressed air is fed in the cylinder to load the spring and the check valve is free to operate automatically in conventional way.

In the upset or emergency condition of the turbine the compressed air is vented, the spring is free to extend inside the cylinder and the actuator piston rotates the valve disk to intercept the steam bleeding pipe. The main function of the spring is to overrun the starting friction on the packing and pivot bearings.

Besides the usual optional, we can supply also valves with:

- Antirotating, anti-oscillating feature;
- Damping device on the shaft operating the valve disk;
- Three-way valve (to be installed on the compressed air feed line) manually operated by a spring loaded lever (the spring is needed to run back the lever in the valve closed position) to test during maintenance the operation Of the check valve and actuator;
- Micros-witches on the actuator for the indication of:
- Check valve open during normal Operation,
- Check valve closed.

CONTROL CIRCUIT

Control Circuit could be different depending on application. Please apply to our sale or technical department if you need to obtain more information about the control circuit.







SINGLE PLATE WAFER CHECK VALVE



FEATURES

- Very simple in construction, compact, light-weight, sturdy & rugged
- Can operate effectively in both vertical and horizontal pipe lines
- Soft seated valves come in two variants O ring seated and PTFE / RPTFE seated
- Wafer type end connections as standard other types can be provided on request
- Long life and trouble-free operation
- Easier to handle, pack and transport as compared to other valves

SPECIFICATIONS

Codes & Standards

General design & mfg	API 6D / ASME B 16.34
 Face to face dimensions 	API 6D / ASME B 16.10
Inspection & testing	API 598
 Flange drilling 	Wafer Design ASME B16.5

Technical Specifications

Valve type	Self Acting Non Return Valve
Description	Single Plate Wafer type Check Valve
Body type	Short pattern wafer type
Model variants	Check Valve with rubber O ring on seat and face sealing
	Check Valve with PTFE seat and serrated faces
 Size range 	DN 25 to DN 600
 Pressure rating 	Up to PN 16
Operating temp. range	-25° C to 200° C (depending on seat MOC)
 Seat leakage 	Zero leak (tight shut off)

Standard Material of Construction (MOC)

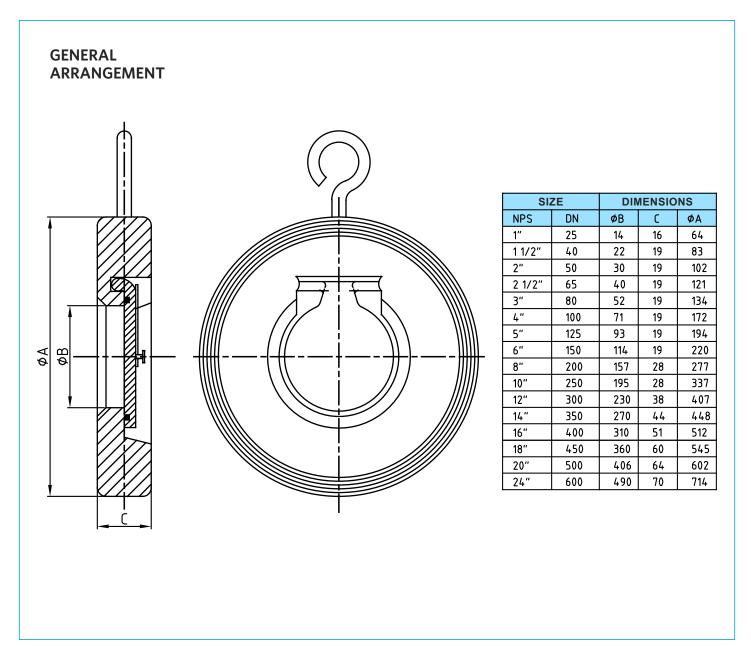
Body & Disc	WCB / CF8 / CF8M / CF3 / CF3M
Seat variants	EPDM / Viton / Nitrile / Neoprene / Silicon
	PTFE / RPTFE



SINGLE PLATE WAFER CHECK VALVE



SINGLE PLATE WAFER CHECK VALVE







GATE VALVE WITH ELECTRIC ACTUATOR



FEATURES

- Reliable sealing & sturdy construction to ensure excellent performance.
- Non-Rotating stem with precision Acme threads & burnished finish.
- All trim material available as per API 600.
- Fully guided wedge to ensure proper alignment while seating.
- Pressure sealed bonnet for ASME #900 and above to provide excellent sealing against increased line pressure.
- Back Seat arrangement to provide isolation of stuffing box for On-Line serviceability.
- Valve Bypass optionally available.
- Valves are available in Flanges End & Butt weld end connections (other connections can be provided on request).
- Locking arrangement can be provided on manual and hand wheel operated valves.
- Complying to various national and international standards like API, BS, ISO, etc.

SPECIFICATIONS

Codes & Standards

General design & mfg.	ASME B16.34 / API 600/IBR
Face to face dimensions	ASME B16.10
 Actuator mounting pad 	ISO 5210
Inspection and testing	API 598
 Flange drilling 	ASME B16.5

Technical Specifications

Valve type	Gate valve
Bonnet Type	Bolted bonnet / Pressure seal bonnet
Seat type	Renewable (Welded with body)
End Connection	Flanged / Butt weld end
Size range	DN 50 to DN 600
Pressure rating Class	150 / 300 / 600 / 900 / 1500 / 2500
Operating temp. range	-29°C to 650° C**
 Seat leakage 	As per API 598

Standard Material of Construction (MOC)

Valve Body	WCB / CF8/ CF8M / WC6 / WC9 / C5 / C12 / LCB
Valve Wedge	13% Cr. Facing / WCB + HF / SS304 + HF / SS316 + HF
 Seat ring (Renewable) 	13% Cr. Facing / WCB + HF / SS304 + HF / SS316 + HF
Stem	SS 410 / SS 304 / SS 316
Gland Bush	SS 410 / SS 304 / SS 316



GLOBE VALVE WITH ELECTRIC ACTUATOR



FEATURES

- Reliable sealing & sturdy construction to ensure excellent performance.
- Outside screw & yoke (OS & Y) construction.
- Pressure sealed bonnet for ASME #900 and above to provide excellent sealing against increased line pressure.
- Back Seat arrangement to provide isolation of stuffing box for On-Line serviceability.
- Complying to various national and international standards like API, BS, ISO, etc.
- Self-aligning disc provided for proper sealing. (Parabolic disc can be provided on request).
- Valve Bypass arrangement optionally available.
- Locking arrangement can be provided on manual and hand wheel operated valves.
- Torque arm reduces wear on packing rings & enables better sealing & reduces torque.
- Valves are available in Flanges End & Butt weld end connections (other connections can be provided on request).

SPECIFICATIONS

Codes & Standards

General design & mfg.	API623 ASME B16.34/BS 1873/IBR
Face to face dimensions	ASME B16.10
 Actuator mounting pad 	ISO 5210
Inspection and testing	API 598 / BS EN 12266 Part 1
Flange drilling	ASME B16.5

Technical Specifications

Valve type	Globe valve
Bonnet type	Bolted Bonnet / Pressure seal bonnet
Seat type	Renewable (Welded with body)
End Connection	Flanged/Butt weld end
Size range	DN 50 to DN 600
Pressure rating	Class 150/300/600/900/1500/2500
Operating temp. range	-29°C to 650°C**
Seat leakage	As per BS EN 12266 part I

Standard Material of Construction (MOC)

Valve Body	WCB / CF8/ CF8M / / WC6 / WC9 / C5 / C12 / LCB
Plug	SS410+ HF/SS304+HF/SS316+HF
Seat ring	SS410+HF/SS304+HF/SS316+HF
Stem	SS 410 / SS 304 / SS 316
Gland Bush	SS 410 / SS 304 / SS 316

** - Min and Max. Operating Temperature depend on the Body and Bonnet Material Selection

Trusted by the leaders







































W-55, S Block, MIDC, Bhosari, Pune - 411026, Maharashtra, India.