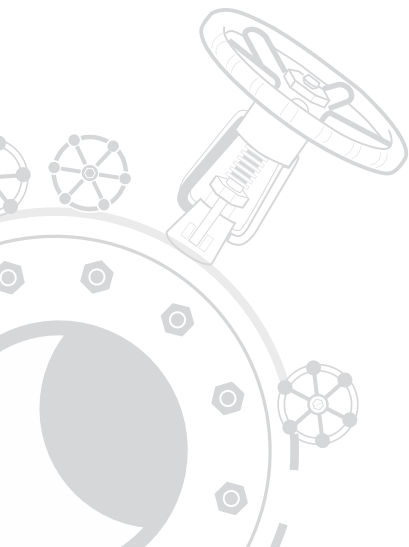


GATE GLOBE & CHECK VALVES

by



www.ipcvalves.com





ABOUT US

Integral Process Controls was founded in 2001 with an objective to solve two key pain points for the customers. First was to reduce the valve delivery time significantly to meet the aggressive demand timelines of the clients. Secondly, we sensed a need to meet the huge and largely unmet demand for assured supply of quality Valve and Valve Automation solutions. We set out to serve this very gap.

Today, IPC is all set to take a new leap of growth. With our expertise and robust manufacturing capabilities, we offer a comprehensive range of Gate, Globe and Check Valves and valve automation solutions. Integral Process Controls is an ISO 9001:2015, ISO 14001:2015, ISO 29001:2010 & ISO 45001:2018 certified company. The organization is also Licensed to use official API Monogram on API-600 & API-6D valves.

IPC CREDENTIALS

Conforming to some of the leading standards across the globe

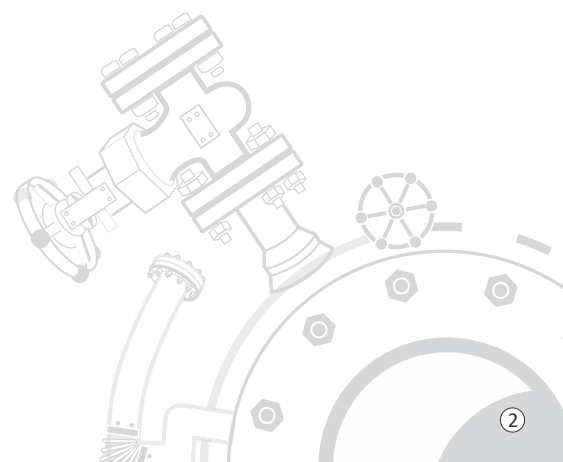
CERTIFICATIONS



API 600-0261
BOLTED BONNET
STEEL GATE VALVE

API 6D -1691
SWING CHECK
VALVE

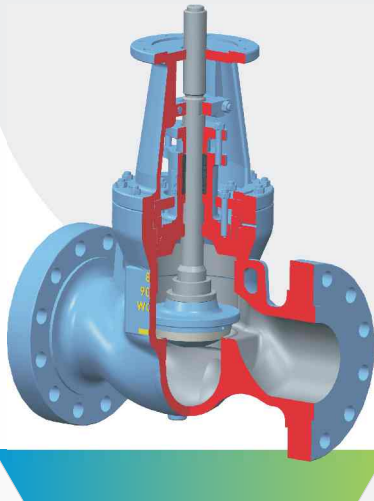
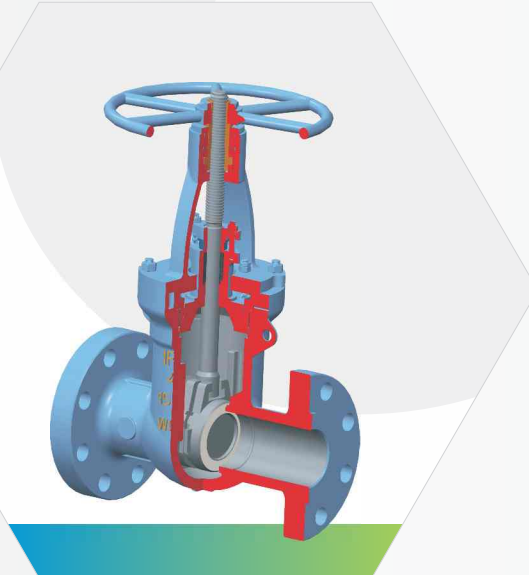
APPROVALS



GATE, GLOBE & CHECK VALVES

GATE

IPC manufactures full range of Gate Valves, which are ideal for bi-directional, low friction flow and 100% tight shut-off. Due to the flow characteristics of the wedge to seat design, Gate Valves are operated in the full close or full open position.



GLOBE

Globe Valves from IPC are ideally unidirectional. These can be utilized for isolation as well as for flow control. The flow characteristics of a Globe Valve are easy to control hence flow control can be achieved at any open position. This makes the design suitable for throttling application.



SWING CHECK

The comprehensive range of Swing Check Valves from IPC can be installed in horizontal as well as vertical lines. The Swing Check Valve, like all Check Valves, is used to prevent back flow in the line. The resultant pressure drop is minimal.



FEATURES & BENEFITS

- Body and bonnet joint with tongue and groove type arrangement for leak proof joint which also provides protection against gasket from unwinding
- In high pressure Valves, pressure-seal bonnet design with it's innovative features enhances the performance & safety
- IPC Gate and Globe Valves have yoke construction for easy access to bonnet & packing rings for maintenance
- Pressure Seal Valves have hard facing thickness of 3 mm to ensure long and trouble free service life
- Capable to automatically adjust slight misalignments caused by pipeline deflections & thermal deformation

Body & Bonnet

- IPC Gate Valves feature a one piece cast flexible wedge that minimizes stress concentration
- Wedge flexibility ensures tight seating over a wide range of differential pressures and temperatures
- Due to flexible wedge design, torque is minimum

Wedge

- Seat rings in Gate and Check Valves are seal welded with the body to eliminate leakage and accidental loosening
- In Globe Valves, welded seat ensures proper seating of plug as well as sealing
- Stainless Steel Valves are featured with integral seat design
- Seating surfaces in high pressure Valves are hard faced with Stellite® or equivalent

Seat

- Single piece stem in Gate and Globe Valves for superior strength
- Reduced lateral stem loading and accurate wedge movement due to application of stem wedge thrust close to the wedge center

Stem

- Valves enabled with two piece glands having self-aligning gland bush for even compression of packing rings
- Braided Graphite Packing Rings, Re-inforced with Inconel wire & having corrosion inhibitor added in it increases life of seals also avoids possibility of any corrosion of stem or in packing box

Packing / Seals

- Type tested as per API 624
- Gate, Globe & Check Valves conform to ASME B 16.34
- Designed in accordance to ISO 10434 /API 600, BS 1873 and BS 1868/API 6D
- Available with IBR as well as Non-IBR certification
- API certification as per API 600/API 6D
- CE-PED as per (2014/68/EU)

Standards & Certifications

GATE VALVES

GATE VALVES OS & Y TYPE - BOLTED BONNET

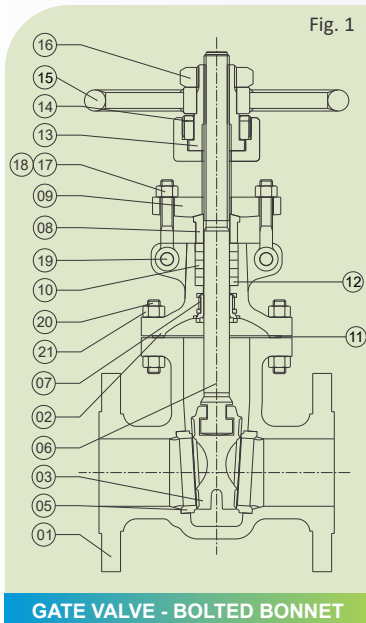
- **PRESSURE RATING** ASME CLASS 150 THROUGH 4500
- **SIZES** - 1/2" TO 24" (DN-15 TO DN-600)
- **MFG STANDARDS** - API 600 / BS 1414 / ASME B16.34 / MSS SP-144
- **FLANGE DETAILS** - STD AS PER ASME B16.5
OTHERS AS PER BS, AWWA, EN, DIN, etc.
- **END TO END DIMENSIONS** - AS PER ASME B16.10
- **TESTING STANDARDS** - API 598 / BS EN 12266-PART 1
- **BUTT-WELD END DETAILS** - AS PER ASME B16.25



**API 600-0261
BOLTED BONNET
STEEL GATE VALVE**

GATE VALVES - OS AND Y TYPE - ASME CLASS 150 THROUGH 4500

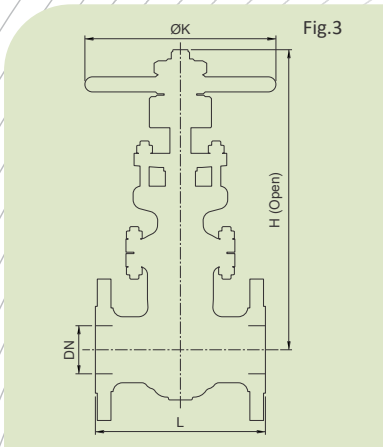
(Ref. fig.1)



SR. NO.	COMPONENT	QTY.	WCB + TRIM 8	WC6 + TRIM 5	CF8M + TRIM 16
1	BODY	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
2	BONNET	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
3	WEDGE	01	13% CR. STEEL	ASTM A217 Gr. WC6 + HF	ASTM A351 Gr. CF8M + HF
4	YOKE	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
5	SEAT RING	02	CARBON STEEL + HF	ALLOY STEEL + HF	SS 316 + HF
6	STEM	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
7	BACK SEAT BUSH	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
8	GLAND BUSH	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
9	GLAND FLANGE	01	CARBON STEEL	CARBON STEEL	STAINLESS STEEL
10	STEM PACKING	Min. 5	BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.		
11	GASKET	01	SPW, SS316 + GRAPHITE	SPW, SS316 + GRAPHITE	SPW, SS316 + GRAPHITE
12	ANTI EXTRUSION RING	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
13	YOKE SLEEVE	01	ASTM A439 Gr. D2	ASTM A439 Gr. D2	ASTM A439 Gr. D2
14	YOKE BUSH	01	CARBON STEEL	CARBON STEEL	STAINLESS STEEL
15	HANDWHEEL	01	SG IRON / MALLEABLE IRON / DUCTILE IRON / FABRICATED STEEL		
16	HANDWHEEL NUT	01	CARBON STEEL	CARBON STEEL	CARBON STEEL
17	EYE BOLT	02	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B8
18	NUT	02	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 8
19	COLLAR PIN	02	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 304
20	STUD (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
21	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 4	ASTM A194 Gr. 8M
22	STUD (BONNET TO YOKE)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
23	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 4	ASTM A194 GR. 8M
24	GRUB SCREW	01	IS 6094 - II	IS 6094 - II	IS 6094 - II
25	GREASE NIPPLE	01	IS 4009 TYPE - A	IS 4009 TYPE - A	IS 4009 TYPE - A
26	NAME PLATE AND RIVETS	01 SET	ASTM A240 Gr. 304	ASTM A240 Gr. 304	ASTM A240 Gr. 304

HF - HARD FACING, SPW - SPIRAL WOUND

GATE VALVES



GATE VALVE - BOLTED BONNET

Bolted bonnet gate valves are commonly used in various industries, including oil and gas, chemical, and water treatment, among others. Bolted bonnet gate valves are generally more cost-effective than other types of valves, making them a popular choice

Key Benefits

- Designed to withstand high pressures and temperatures
- Easy to maintain and repair
- Ideal for throttling as well as on/off applications
- Provides tight shut-off when closed

CAST STEEL GATE VALVES - BOLTED BONNET

(Ref. fig. 3)

SIZE		Class 150					Class 300					Class 600						
		L		H (Open)	ØK	Wt.		L	H (Open)	ØK	Wt.		L		H (Open)	ØK	Wt.	
DN	NPS	FL	BW			FL	BW				FL & BW	FL	BW	FL & BW			RTJ	FL
50	2"	178	216	392	200	17	15	216	392	200	20	18	292	295	433	200	30	24
65	2 1/2"	190	241	466	230	23	18	241	466	230	28	21	330	333	466	250	50	45
80	3"	203	282	491	230	28	20	282	495	230	38	26	356	359	532	250	70	66
100	4"	229	305	616	250	45	35	305	616	250	65	42	432	435	694	300	105	98
150	6"	267	403	758	300	65	55	403	833	350	128	81	559	562	912	450	222	195
200	8"	292	419	986	350	103	82	419	1038	400	188	140	660	664	1131	450	365	312
250	10"	330	457	1204	400	170	158	457	1318	450	300	229	787	791	1321	500*	650	552
300	12"	356	502	1469	450	261	230	502	1469	500*	430	335	838	841	1497	600*	900	784
350	14"	381	572	1561	500*	410	365	762	1631	500*	750	620	889	892	1565	600*	1600	1465
400	16"	406	610	1752	500*	520	490	838	1791	600*	958	850	991	994	2062	750*	1955	1760
450	18"	432	660	1956	600*	690	665	914	2126	700*	1310	1075	1092	1095	2062	750*	2075	1840
500	20"	457	711	2159	600*	900	865	991	2261	700*	1640	1525	1194	1200	3048	750*	2150	1960
600	24"	508	813	2565	700*	1410	1375	1143	2654	750*	2460	2075	1397	1407	3150	750*	3620	3180

Note: For dimension of Valve above 24" please contact factory.
For dimensions of Valves sizes from 1/2" through 1 1/2" (class 150 & class 300), Contact factory.

FL - FLANGED, BW - BUTTWELD
RTJ - RING TYPE JOINT

* Indicates Manual Gear Operator
All Dimensions are in mm and Weights are in Kg.
Valve Torque and CV details will be made available on request with mail to sales.ipc@ipcvalves.com
Note: For dimension of Valve above 12" Contact factory.

GATE VALVES

GATE VALVES OS & Y TYPE - PRESSURE SEAL BONNET

- **PRESSURE RATING** ASME CLASS 150 THROUGH 4500
- **SIZES** - 2" TO 24" (DN-50 TO DN-600)
- **MFG STANDARDS** - ASME B16.34 / MSS SP-144
- **FLANGE DETAILS** - STD AS PER ASME B16.5
OTHERS AS PER BS, AWWA, EN, DIN, etc.
- **END TO END DIMENSIONS** - AS PER ASME B16.10
- **TESTING STANDARDS** - API 598 / BS EN 12266-PART 1
- **BUTT-WELD END DETAILS** - AS PER ASME B16.25

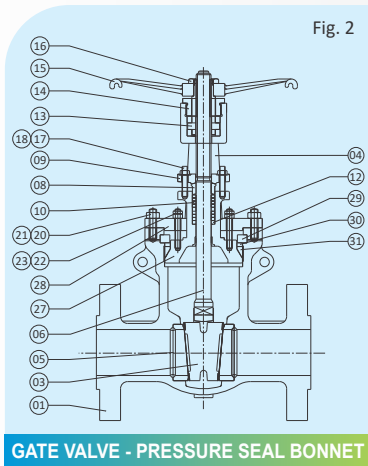


Fig. 2

GATE VALVE - PRESSURE SEAL BONNET

GATE VALVES - OS AND Y TYPE - ASME CLASS 150 THROUGH 4500

(Ref. fig.2)

SR. NO.	COMPONENT	QTY.	WCB + TRIM 8	WC6 + TRIM 5	CF8M + TRIM 16
1	BODY	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
2	BONNET	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
3	WEDGE	01	13% CR. STEEL	ASTM A217 Gr. WC6 + HF	ASTM A351 Gr. CF8M + HF
4	YOKE	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
5	SEAT RING	02	CARBON STEEL + HF	ALLOY STEEL + HF	SS 316 + HF
6	STEM	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
7	BACK SEAT BUSH	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
8	GLAND BUSH	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
9	GLAND FLANGE	01	CARBON STEEL	CARBON STEEL	STAINLESS STEEL
10	STEM PACKING	Min. 5	BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.		
11	ANTI EXTRUSION RING	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
12	YOKE SLEEVE	01	ASTM A439 Gr. D2	ASTM A439 Gr. D2	ASTM A439 Gr. D2
13	YOKE BUSH	01	CARBON STEEL	CARBON STEEL	STAINLESS STEEL
14	HANDWHEEL	01	SG IRON / MALLEABLE IRON / DUCTILE IRON / FABRICATED STEEL		
15	HANDWHEEL NUT	01	CARBON STEEL		
16	EYE BOLT	01	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B8
17	NUT	02	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 8
18	COLLAR PIN	02	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 304
19	STUD (BODY TO BONNET)	02	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
20	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 4	ASTM A194 Gr. 8M
21	STUD (BONNET TO YOKE)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
22	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 4	ASTM A194 GR. 8M
23	GRUB SCREW	AS REQ.	IS 6094 - II		
24	GREASE NIPPLE	01	IS 4009 TYPE - A		
25	NAME PLATE AND RIVETS	01	ASTM A240 Gr. 304		
26	PRESSURE SEAL BONNET	01 SET	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
27	BONNET FLANGE	01	ASTM A516 Gr. 70	ASTM A516 Gr. 70	ASTM A240 Gr. 316
28	SEGMENTAL RING	01	ASTM A182 Gr F6a	ASTM A182 Gr F6a	ASTM A182 Gr. F316
29	SUPPORT RING	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
30	PRESSURE SEAL GASKET (METALLIC)	01	SOFT IRON / ASTM A182 Gr. F316	SOFT IRON / ASTM A182 Gr. F316	ASTM A182 Gr. F316
	PRESSURE SEAL GASKET (SOFT)		GRAFOIL		

HF - HARD FACING, SPW - SPIRAL WOUND

GATE VALVES

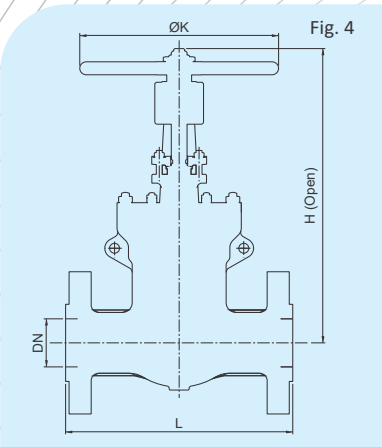


Fig. 4

Cast steel pressure seal bonnet gate valves are commonly used in high-pressure and high-temperature applications, such as in power plants and refineries.

Key Benefits

- Designed to withstand high pressure
- Provides a tight seal, which reduces the risk of leakage and ensures system integrity
- Pressure seal bonnet design allows for easy maintenance and repair

GATE VALVE - PRESSURE SEAL BONNET

CAST STEEL GATE VALVES - PRESSURE SEAL BONNET

(Ref. fig. 4)

SIZE		Class 900						Class 1500						Class 2500					
		L		H (Open)	ØK	Wt.		L		H (Open)	ØK	Wt.		L		H (Open)	ØK	Wt.	
DN	NPS	FL & BW	RTJ			FL	BW	FL & BW	RTJ			FL	BW	FL & BW	RTJ			FL	BW
50	2"	368	371	550	300	75	62	368	371	570	300	95	80	451	454	600	400	110	96
65	2 1/2"	419	422	645	300	90	78	419	422	670	300	110	93	508	514	695	450	130	108
80	3"	381	384	670	300	96	83	470	473	725	300	125	108	578	584	740	300	140	116
100	4"	457	460	790	400	136	120	546	549	850	300	205	160	673	683	890	350*	225	185
150	6"	610	613	1075	300*	275	225	705	711	1125	350*	330	280	914	927	1135	350*	495	410
200	8"	737	740	1225	350*	490	398	832	841	1235	350*	655	600	1022	1038	1350	400*	825	700
250	10"	838	841	1500	400*	825	700	991	1000	1520	400*	1200	1050	1270	1292	1680	450*	1480	1310
300	12"	965	968	1635	400*	1150	1020	1130	1146	1650	400*	2010	1780	1422	1445	1750	450*	2400	2090

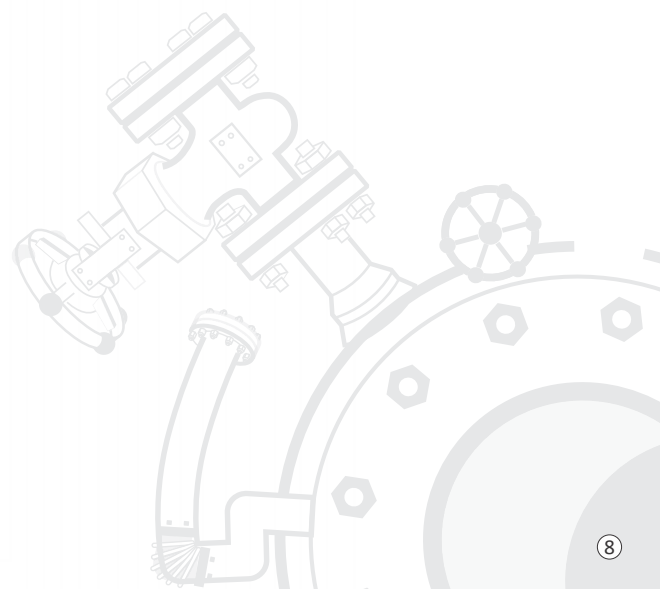
* Indicates Manual Gear Operator
 All Dimensions are in mm and Weights are in Kg.
 Valve Torque and CV details will be made available on request with mail to sales.ipc@ipcvalves.com
Note: For dimension of Valve above 12" Contact factory.

FL - FLANGED, BW - BUTTWELD
 RTJ - RING TYPE JOINT

High Pressure Gate Valve



▶ Watch Video



GLOBE VALVES

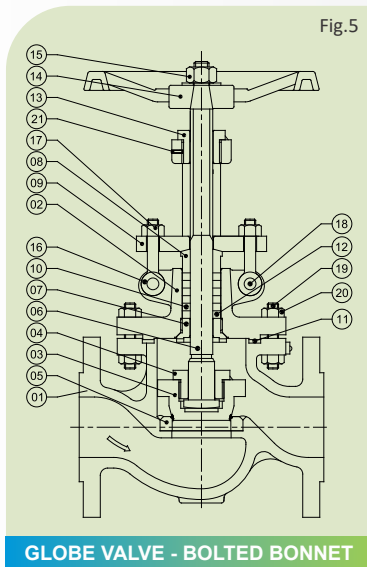
GLOBE VALVES OS & Y TYPE - BOLTED BONNET

- **PRESSURE RATING** ASME CLASS 150 THROUGH 4500
- **SIZES** - 1/2" TO 16" (DN-15 TO DN-400)
- **MFG STANDARDS** - BS 1873 / ASME B16.34 / API 623
- **FLANGE DETAILS** - STD AS PER ASME B16.5
OTHERS AS PER BS, AWWA, EN, DIN, etc.
- **END TO END DIMENSIONS** - AS PER ASME B16.10
- **TESTING STANDARDS** - API 598 / BS EN 12266-PART 1
- **BUTT-WELD END DETAILS** - AS PER ASME B16.25



GLOBE VALVES - OS AND Y TYPE - ASME CLASS 150 THROUGH 4500

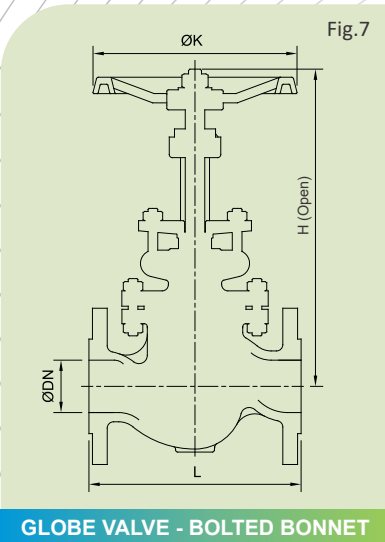
(Ref. fig.5)



SR. NO.	COMPONENT	QTY.	WCB + TRIM 8	WC6 + TRIM 5	CF8M + TRIM 16
1	BODY	1	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
2	BONNET	1	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
3	PLUG	1	13% CR. STEEL	ASTM A217 Gr. WC6 + HF	ASTM A351 Gr. CF8M + HF
4	PLUG NUT	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
5	SEAT RING	1	CARBON STEEL + HF	ALLOY STEEL + HF	SS 316 + HF
6	STEM	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
7	BACK SEAT BUSH	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
8	GLAND BUSH	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
9	GLAND FLANGE	1	CARBON STEEL	CARBON STEEL	STAINLESS STEEL
10	STEM PACKING	Min. 6	BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.		
11	GASKET	1	SPW, SS316 + GRAPHITE	SPW, SS316 + GRAPHITE	SPW, SS316 + GRAPHITE
12	ANTI EXTRUSION RING	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
13	YOKE NUT / STEM NUT	1	ASTM A439 Gr. D2	ASTM A439 Gr. D2	ASTM A439 Gr. D2
14	HANDWHEEL	1	SG IRON / MALLEABLE IRON / DUCTILE IRON / FABRICATED STEEL		
15	HANDWHEEL NUT	1	CARBON STEEL		
16	EYE BOLT	2	ASTM A307 Gr. B		
17	NUT	2	ASTM A563 Gr. A		
18	COLLER PIN	2	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 304
19	STUD (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
20	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 8M
21	GRUB SCREW	1	IS 6094 - II		
22	NAME PLATE AND RIVETS	01 SET	ASTM A240 Gr. 304		

HF - HARD FACING, SPW - SPIRAL WOUND

GLOBE VALVES



Bolted bonnet globe valves are commonly used in a variety of applications, including water treatment, oil and gas, and chemical processing, providing precise flow control, easy maintenance, and long-term cost savings.

Key Benefits

- Suitable for a variety of applications, including on-off, throttling, and flow control
- The bolted bonnet design allows for easy access to the valve internals, making maintenance and repairs easier

CAST STEEL GLOBE VALVES - BOLTED BONNET

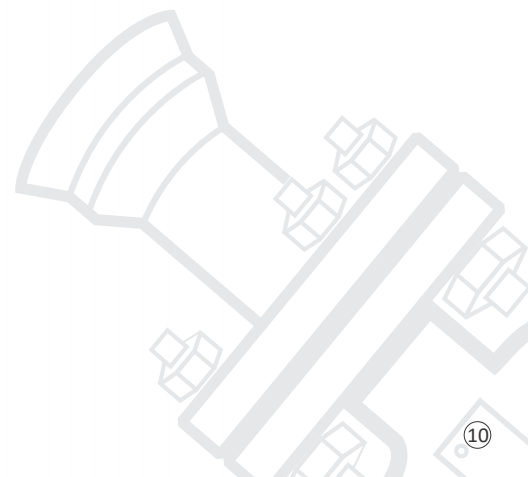
(Ref. fig. 7)

SIZE		Class 150					Class 300					Class 600					
		L	H	ØK	Wt.		L	H	ØK	Wt.		L		H	ØK	Wt.	
DN	NPS	FL & BW	(Open)		FL	BW	FL & BW	(Open)		FL	BW	FL & BW	RTJ	(Open)		FL	BW
50	2"	203	330	200	20	17	267	319	200	20	18	292	295	386	250	30	26
65	2 1/2"	216	354	250	25	20	292	354	200	30	25	330	333	390	300	45	35
80	3"	241	386	250	30	27	318	383	250	40	32	356	359	442	350	55	40
100	4"	292	440	300	47	43	356	456	350	62	49	432	435	498	400	92	72
150	6"	406	502	350	80	72	444	572	450	120	98	559	562	696	600	195	145
200	8"	495	594	450	120	108	559	716	600*	190	157	660	664	889	600*	350	270
250	10"	622	728	500*	186	171	622	835	600*	291	242	787	791	996	750*	756	656
300	12"	698	845	600*	292	267	711	975	750*	450	379	838	841	1207	750*	1086	896
350	14"	787	1200	600*	525	510	-	-	-	-	-	-	-	-	-	-	-
400	16"	914	1270	650*	650	630	-	-	-	-	-	-	-	-	-	-	-

Note: For dimension of Valve above 16" Contact factory.
For dimensions of Valves sizes from 1/2" through 1 1/2" (class 150 & class 300), Contact factory.

FL - FLANGED, BW - BUTTWELD
RTJ - RING TYPE JOINT

* Indicates Manual Gear Operator
All Dimensions are in mm and Weights are in Kg.
Valve Torque and CV details will be made available on request with mail to sales.ipc@ipcvalves.com
Note: For dimension of Valve above 12" Contact factory.



GLOBE VALVES

GLOBE VALVES OS & Y TYPE - PRESSURE SEAL BONNET

- **PRESSURE RATING** ASME CLASS 150 THROUGH 4500
- **SIZES** - 2" TO 16" (DN-50 TO DN-400)
- **MFG STANDARDS** - BS 1873 / ASME B16.34
- **FLANGE DETAILS** - STD AS PER ASME B16.5
OTHERS AS PER BS, AWWA, EN, DIN, etc.
- **END TO END DIMENSIONS** - AS PER ASME B16.10
- **TESTING STANDARDS** - API 598 / BS EN 12266-PART 1
- **BUTT-WELD END DETAILS** - AS PER ASME B16.25



GLOBE VALVES - OS AND Y TYPE - ASME CLASS 150 THROUGH 4500

(Ref. fig.6)

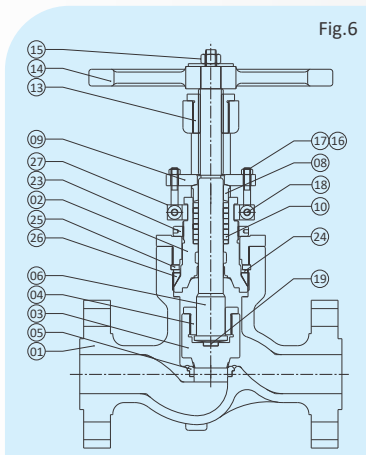


Fig.6

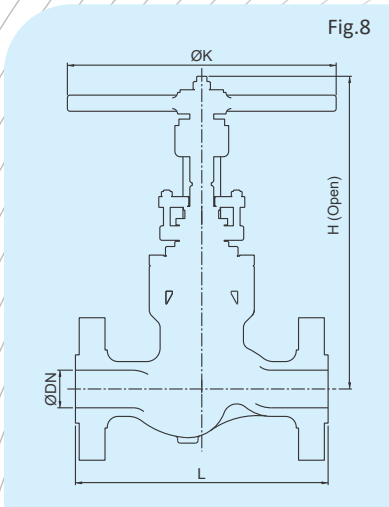
GLOBE VALVE - PRESSURE SEAL BONNET

SR. NO.	COMPONENT	QTY.	WCB + TRIM 8	WC6 + TRIM 5	CF8M + TRIM 16
1	BODY	1	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
2	BONNET	1	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
3	PLUG	1	13% CR. STEEL	ASTM A217 Gr. WC6 + HF	ASTM A351 Gr. CF8M + HF
4	PLUG NUT	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
5	SEAT RING	1	CARBON STEEL + HF	ALLOY STEEL + HF	SS 316 + HF
6	STEM	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
7	BACK SEAT BUSH	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
8	GLAND BUSH	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
9	GLAND FLANGE	1	CARBON STEEL	CARBON STEEL	STAINLESS STEEL
10	STEM PACKING	Min. 6	BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.		
12	ANTI EXTRUSION RING	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
13	YOKE NUT / STEM NUT	1	ASTM A439 Gr. D2	ASTM A439 Gr. D2	ASTM A439 Gr. D2
14	HANDWHEEL	1	SG IRON / MALLEABLE IRON / DUCTILE IRON / FABRICATED STEEL		
15	HANDWHEEL NUT	1	CARBON STEEL		
16	EYE BOLT	2	ASTM A307 Gr. B		
17	NUT	2	ASTM A563 Gr. A		
18	COLLER PIN	2	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 304
19	STUD (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
20	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 8M
21	GRUB SCREW	1	IS 6094 - II		
22	NAME PLATE AND RIVETS	01 SET	ASTM A240 Gr. 304		
23	RETAINER	01	CARBON STEEL		
24	SUPPORT RING	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
25	SEGMENTAL RING	01	ASTM A182 Gr. F6a	ASTM A182 Gr. F6a	ASTM A182 Gr. F316
26	PRESSURE SEAL GASKET (METALLIC)	01	SOFT IRON / ASTM A182 Gr. F316	SOFT IRON / ASTM A182 Gr. F316	ASTM A182 Gr. F316
	PRESSURE SEAL GASKET (SOFT)	01	GRAPHITE	GRAPHITE	GRAPHITE
27	CLAMP (FOR EYE BOLT)	02	CARBON STEEL	CARBON STEEL	CARBON STEEL

HF - HARD FACING, SPW - SPIRAL WOUND



GLOBE VALVES



GLOBE VALVE - PRESSURE SEAL BONNET

Cast steel pressure seal bonnet globe valves are commonly used in high-pressure and high-temperature applications, such as in power plants, refineries, and petrochemical plants.

Key Benefits

- Cast steel pressure seal bonnet globe valves are designed to withstand high pressure and temperature
- The pressure seal design of the valve provides a tight seal, which reduces the risk of leakage and ensures system integrity
- Suitable for use in critical applications
- Built to withstand harsh environments and media

CAST STEEL GLOBE VALVES - PRESSURE SEAL BONNET

(Ref. fig. 8)

SIZE		Class 900					Class 1500					Class 2500							
		L		H (Open)	ØK	Wt.		L		H (Open)	ØK	Wt.		L		H (Open)	ØK	Wt.	
DN	NPS	FL & BW	RTJ			FL	BW	FL & BW	RTJ			FL	BW	FL & BW	RTJ			FL	BW
50	2"	368	371	550	300	70	60	368	371	482	300	80	70	451	454	495	350	95	85
65	2 1/2"	419	422	580	350	85	75	419	422	482	350	90	80	508	514	495	350	110	100
80	3"	381	384	675	350	105	95	470	473	577	400	115	105	578	584	603	350*	125	110
100	4"	457	460	750	500	130	115	546	549	685	450*	160	150	673	683	685	400*	210	195
150	6"	609	613	1085	350*	315	305	705	711	933	600*	410	395	914	927	971	400*	615	600
200	8"	736	740	1300	350*	670	655	832	841	1193	450*	650	280	1022	1038	1200	450*	1050	1035
250	10"	838	841	1420	400*	925	910	991	1000	1270	500*	1150	1135	1270	1292	1416	550*	1525	1505
300	12"	965	968	1825	450*	1200	1185	1130	1146	1447	1066	1725	1725	1422	1445	1524	750*	2285	2250

* Indicates Manual Gear Operator
 All Dimensions are in mm and Weights are in Kg.
 Valve Torque and CV details will be made available on request with mail to sales.ipc@ipcvalves.com
 Note: For dimension of Valve above 12" Contact factory.

FL - FLANGED, BW - BUTTWELD
 RTJ - RING TYPE JOINT

High Pressure
Globe Valve



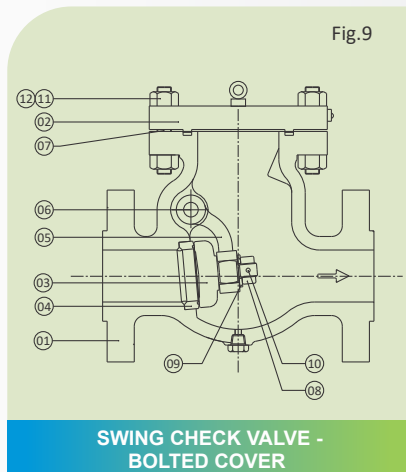
▶ Watch Video



SWING CHECK VALVES

CHECK VALVES SWING TYPE - BOLTED COVER

- **PRESSURE RATING** ASME CLASS 150 THROUGH 4500
- **SIZES** - 1/2" TO 1½" (DN-15 TO DN-40) LIFT CHECK VALVE
2" TO 24" (DN-50 TO DN-600)
- **MFG STANDARDS** - API 594 / BS 1868 / API 6D / ASME B16.34
- **FLANGE DETAILS** - STD AS PER ASME B16.5
OTHERS AS PER BS, AWWA, EN, DIN, etc.
- **END TO END DIMENSIONS** - AS PER ASME B16.10
- **TESTING STANDARDS** - API 598 / BS EN 12266-PART 1 / API 6D
- **BUTT-WELD END DETAILS** - AS PER ASME B16.25



CHECK VALVES - SWING TYPE - ASME CLASS 150 THROUGH 4500

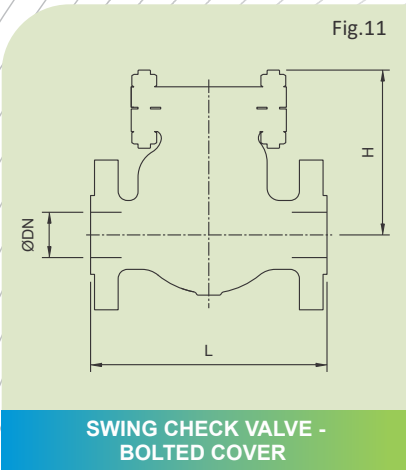
(Ref. fig. 9)

SR. NO.	COMPONENT	QTY.	WCB + TRIM 8	WC6 + TRIM 5	CF8M + TRIM 16
1	BODY	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
2	COVER	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
3	DISC	01	13% CR. STEEL	ASTM A217 Gr. WC6 + HF	ASTM A351 Gr. CF8M + HF
4	SEAT RING	01	CARBON STEEL + HF	ALLOY STEEL + HF	SS 316 + HF
5	HINGE	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
6	HINGE PIN	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
7	GASKET	01	SPW, SS316 + GRAPHITE	SPW, SS316 + GRAPHITE	SPW, SS316 + GRAPHITE
8	DISC NUT	01	ASTM A276 TP. 304	ASTM A276 TP. 304	ASTM A276 TP. 316
9	DISC WASHER	01	ASTM A276 Gr. 410	ASTM A276 Gr. 410	ASTM A276 Gr. 316
10	COTTER PIN	01	ASTM A276 TP. 304	ASTM A276 TP. 304	ASTM A276 TP. 316
11	STUD (BODY TO COVER)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
12	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 8M
13	NAME PLATE & RIVETS	01 SET	ASTM A240 Gr. 304	ASTM A240 Gr. 304	ASTM A240 Gr. 316

HF - HARD FACING, SPW - SPIRAL WOUND



SWING CHECK VALVES



Cast steel swing check valves with bolted covers are a reliable and cost-effective choice for a range of applications, providing reduced leakage, easy maintenance, and long-term durability.

Key Benefits

- The bolted cover design allows for easy access to the valve internals, making maintenance and repairs easier
- The swing check valve's design provides a tight seal, which reduces the risk of leakage and ensures system integrity
- Swing check valves require minimal maintenance due to their simple design

CAST STEEL SWING CHECK VALVES - BOLTED COVER

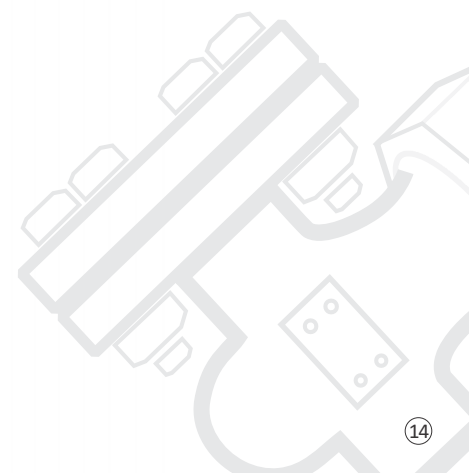
(Ref. fig.11)

SIZE		Class 150				Class 300				Class 600				
		L		H		Wt.		L		H		Wt.		
DN	NPS	FL & BW	H	FL	BW	FL & BW	H	FL	BW	FL & BW	RTJ	H	FL	BW
50	2"	203	135	13	16	267	135	16	13	292	295	165	35	32
65	2 1/2"	216	145	19	24	292	145	32	30	330	333	175	42	40
80	3"	241	165	23	32	318	170	50	45	356	359	205	47	44
100	4"	292	190	40	43	356	225	55	44	432	435	260	92	88
150	6"	356	230	62	78	444	260	100	85	559	562	315	189	180
200	8"	495	295	105	118	533	320	160	150	660	664	380	321	310
250	10"	622	350	170	198	622	400	260	248	787	791	410	528	518
300	12"	698	425	270	310	711	440	380	368	838	841	460	785	778
350	14"	787	460	471	450	838	500	650	639	889	892	532	859	850
400	16"	864	530	575	550	864	545	800	889	991	994	594	985	978
450	18"	978	570	788	772	978	605	970	955	1092	1095	728	1091	1084
500	20"	978	625	916	898	1016	675	1350	1325	1194	1200	689	1185	1160
600	24"	1295	675	1275	1225	1346	785	2210	2180	1397	1407	907	1390	1350

Note: For dimension of Valve above 24" Contact factory.
For dimensions of Valves sizes from 1/2" through 1 1/2" (class 150 & class 300), Contact factory.

FL - FLANGED, BW - BUTTWELD
RTJ - RING TYPE JOINT

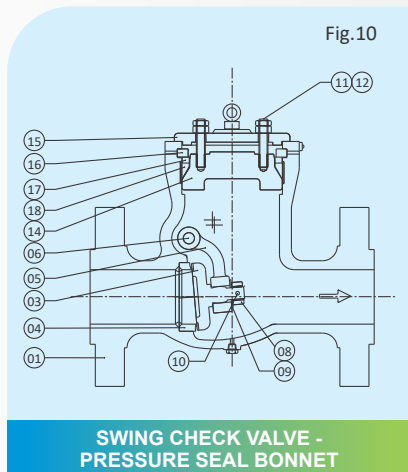
All Dimensions are in mm and Weights are in Kg.
Valve Torque and CV details will be made available on request with mail to sales.ipc@ipcvalves.com



SWING CHECK VALVES

CHECK VALVES SWING TYPE - PRESSURE SEAL BONNET

- **PRESSURE RATING** ASME CLASS 150 THROUGH 4500
- **SIZES** - 2" TO 24" (DN-50 TO DN-600)
- **MFG STANDARDS** - BS 1868 / ASME B16.34
- **FLANGE DETAILS** - STD AS PER ASME B16.5
OTHERS AS PER BS, AWWA, EN, DIN, etc.
- **END TO END DIMENSIONS** - AS PER ASME B16.10
- **TESTING STANDARDS** - API 598 / BS EN 12266-PART 1
- **BUTT-WELD END DETAILS** - AS PER ASME B16.25



CHECK VALVES - SWING TYPE - ASME CLASS 150 THROUGH 4500

(Ref. fig. 10)

SR. NO.	COMPONENT	QTY.	WCB + TRIM 8	WC6 + TRIM 5	CF8M + TRIM 16
1	BODY	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
2	COVER	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
3	DISC	01	13% CR. STEEL	ASTM A217 Gr. WC6 + HF	ASTM A351 Gr. CF8M + HF
4	SEAT RING	01	CARBON STEEL + HF	ALLOY STEEL + HF	SS 316 + HF
5	HINGE	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
6	HINGE PIN	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
7	DISC NUT	01	ASTM A276 TP. 304	ASTM A276 TP. 304	ASTM A276 TP. 316
8	DISC WASHER	01	ASTM A276 Gr. 410	ASTM A276 Gr. 410	ASTM A276 Gr. 316
9	COTTER PIN	01	ASTM A276 TP. 304	ASTM A276 TP. 304	ASTM A276 TP. 316
10	STUD (BODY TO COVER)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
11	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 8M
12	NAME PLATE & RIVETS	01 SET	ASTM A240 Gr. 304	ASTM A240 Gr. 304	ASTM A240 Gr. 316
13	PRESSURE SEAL BONNET	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
14	COVER PLATE	01	CARBON STEEL	CARBON STEEL	STAINLESS STEEL
15	SEGMENTAL RING	01	ASTM A182 Gr F6a	ASTM A182 Gr F6a	ASTM A182 Gr. F316
16	SUPPORT RING	01	ASTM A276 TP. 410	ASTM A276 TP. 410	A182 Gr. F316
17	PRESSURE SEAL GASKET (METALLIC)	01	ASTM A182 Gr. F316 SOFT IRON	ASTM A182 Gr. F316 SOFT IRON	ASTM A182 Gr. F316
	PRESSURE SEAL GASKET (SOFT)	01		GRAFOIL	

HF - HARD FACING, SPW - SPIRAL WOUND



SWING CHECK VALVES

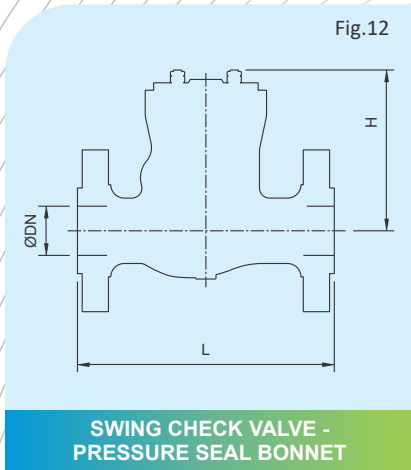


Fig.12

Cast steel swing check valves with pressure seal bonnets are commonly used in high-pressure and high-temperature applications, such as in power plants, refineries, and petrochemical plants.

Key Benefits

- Cast steel swing check valves with pressure seal bonnets are designed to withstand high pressure and temperature
- The pressure seal design of the valve provides a tight seal, which reduces the risk of leakage and ensures system integrity
- Ideal for use in critical applications
- Cast steel swing check valves are designed to withstand high pressure and temperature

CAST STEEL SWING CHECK VALVES - PRESSURE SEAL BONNET

(Ref. fig. 12)

SIZE		Class 900					Class 1500					Class 2500				
		L		H	Wt.		L		H	Wt.		L		H	Wt.	
DN	NPS	FL & BW	RTJ		FL	BW	FL & BW	RTJ		FL	BW	FL & BW	RTJ		FL	BW
50	2"	368	371	180	55	52	368	371	180	70	67	451	454	205	120	115
65	2 1/2"	419	422	220	60	57	419	422	220	75	70	508	514	235	125	118
80	3"	381	384	228	60	57	470	473	228	75	70	578	584	255	125	118
100	4"	457	460	255	75	70	546	549	255	110	100	673	683	305	170	80
150	6"	610	613	330	160	151	705	711	330	240	220	914	927	355	460	450
200	8"	737	740	406	285	278	832	841	406	430	415	1022	1038	430	705	195
250	10"	838	841	480	485	450	991	1000	480	740	720	1270	1292	585	1450	1425
300	12"	965	968	560	685	650	1130	1146	560	1100	1085	1422	1445	635	2080	2045

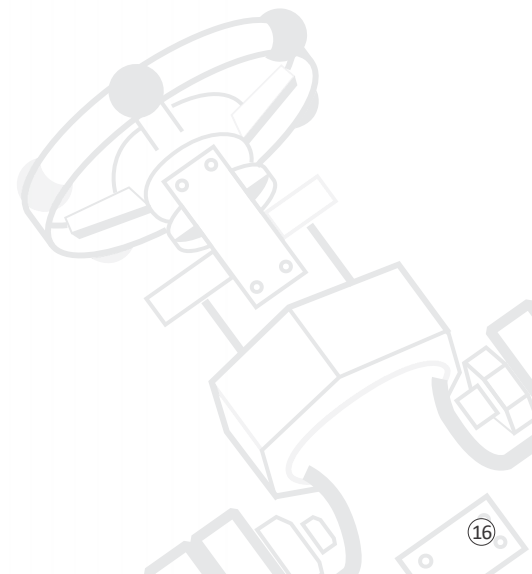
All Dimensions are in mm and Weights are in Kg.
Valve Torque and CV details will be made available on request with mail to sales.ipc@ipcvalves.com

FL - FLANGED, BW - BUTTWELD
RTJ - RING TYPE JOINT

High Pressure
Swing Check Valve



▶ Watch Video



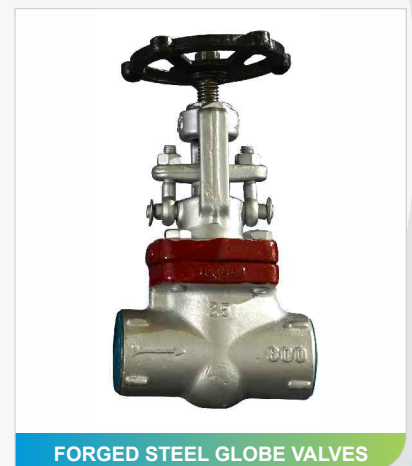
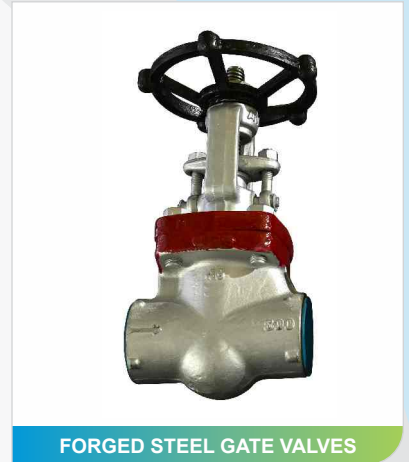
FORGED STEEL VALVES

FORGED STEEL VALVES

- **PRESSURE RATING** ASME CLASS 800, 1500, 2500 & 4500
- **SIZES** - 1/2" TO 2" (DN15 to DN50)
- **MFG STANDARDS** - API 602 / ISO 15761
- **FLANGE DETAILS** - STD AS PER ASME B16.5
OTHERS AS PER BS, AWWA, EN, DIN, etc.
- **END TO END DIMENSIONS** - AS PER MFG. STD.
- **SW END** - AS PER ASME B16.11
- **SCR. END** - AS PER B16.11 (ASME B1.20.1-NPT(F),
BSP/BSPT(F) BS EN ISO 228-1)
- **BUTT-WELD END DETAILS** - AS PER ASME B 16.25/ASME
B36.19/ASME B36.10
- **FLANGE END** - AS PER ASME B 16.10
- **TESTING STANDARDS** - API 598 / BS EN 12266 PART-1

ASME CLASS 800, 1500, 2500 & 4500.

- Size Range – 15 mm to 50 mm
- Forged Steel Valves are available in forged carbon steel, alloy steel and stainless steel materials.
- Body and bonnet is designed as per the dimensional requirements of standards such as API 602, ISO 15761 and ASME B16.34.
- These Valves are available in full port and reduced port type openings.
- Bonnet with integral backseat and consisting of stuffing box, designed as per specification of API 602 and ISO 15761.
- Stem is provided with integral backseat shoulder which mates with the integral backseat of the bonnet ensuring leak proof operation. Stem has ACME thread for smooth and fast operation.
- Seat rings are flared into the Gate Valve body and fitted into place, thus forming sealing with body. Seating surfaces are machined, ground & lapped to obtain maximum sealing efficiency.
- Seat ring is integral and hard faced in Globe and Check Valve.
- Forged Valves are available in socket weld ends. For flanged, screwed or butt-weld end Valves please contact factory.





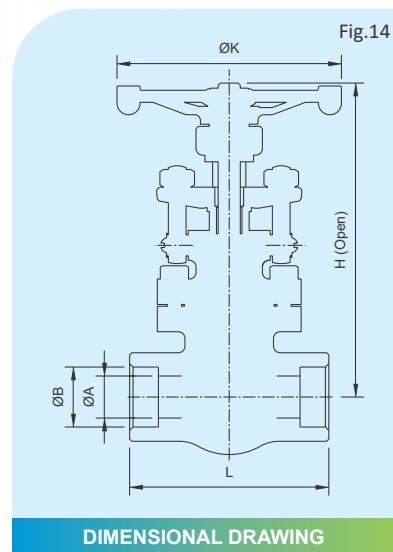
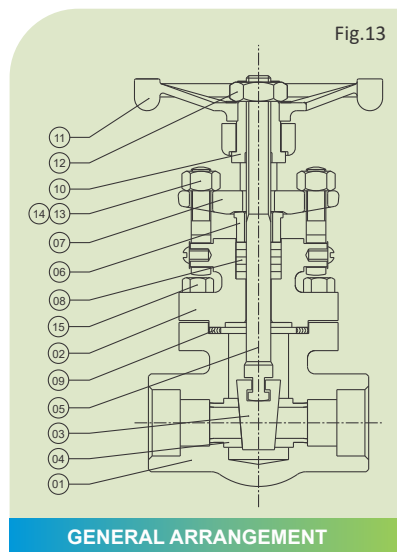
FORGED STEEL GATE VALVES

GATE VALVES - OS AND Y TYPE - ASME CLASS 800, 1500 AND 2500

(Ref. fig.13)

SR. NO.	COMPONENT	QTY.	A105 + TRIM 8	F11 + TRIM 5	F316 + TRIM 16
1	BODY	01	ASTM A105	ASTM A182 Gr. F11 -Cl.2	ASTM A182 Gr. F316
2	BONNET	01	ASTM A105	ASTM A182 Gr. F11 -Cl.2	ASTM A182 Gr. F316
3	WEDGE	01	ASTM A217 Gr. CA-15	ASTM A217 Gr. CA-15 + HF	ASTM A351 Gr. CF8M + HF
4	SEAT RING	02	ASTM A276 TP. 410 + HF	ASTM A276 TP. 410 + HF	ASTM A182 Gr. F316 + HF
5	STEM	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
6	GLAND BUSH	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
7	GLAND FLANGE	01	ASTM A105	ASTM A105	STAINLESS STEEL
8	STEM PACKING	MIN 5	BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.		
9	GASKET	01	SPW, SS 316 + GRAPHITE		
10	YOKE SLEEVE	01	ASTM A582 TP. 416		
11	HANDWHEEL	01	SG IRON.		
12	HANDWHEEL NUT	01	CARBON STEEL		
13	EYE BOLT	02	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
14	NUT	02	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 8M
15	HEX BOLTS (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
16	NAME PLATE	01 SET	ASTM A240 Gr. 304		

HF - HARD FACING, SPW - SPIRAL WOUND



FORGED STEEL GATE VALVES

(Ref. fig. 14)

SIZE		Class 800						Class 1500						Class 2500					
		L	H	ØA	ØB	ØK	Wt.	L	H (Open)	ØA	ØB	ØK	Wt.	L	H (Open)	ØA	ØB	ØK	Wt.
DN	NPS																		
15	1/2"	85	160	9	22.2	105	1.8	90	175	9	22.2	105	2.4	105	200	9	22.2	105	3.2
20	3/4"	90	175	12	27.6	105	2.4	105	200	12	27.6	105	3.2	127	270	12	27.6	150	7
25	1"	105	200	17	34.3	105	3.2	127	270	15	34.3	150	7	150	310	15	34.3	150	10
40	1 1/2"	127	270	28	49.2	150	7	150	310	27	49.2	150	10	185	368	27	49.2	200	13
50	2"	150	310	36	61.2	150	10	185	368	34	61.2	200	13	245	425	34	61.2	200	25

All Dimensions are in mm and Weights are in Kg.
Valve Torque and CV details will be made available on request with mail to sales.ipc@ipcvalves.com

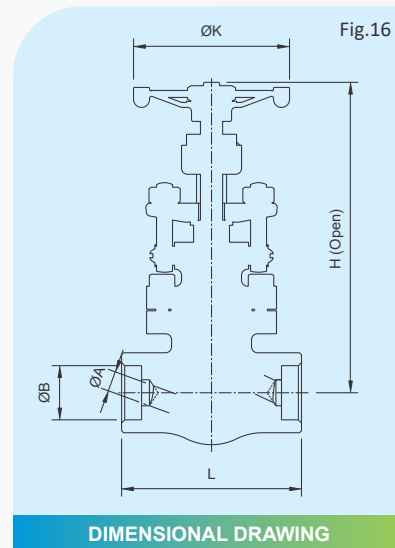
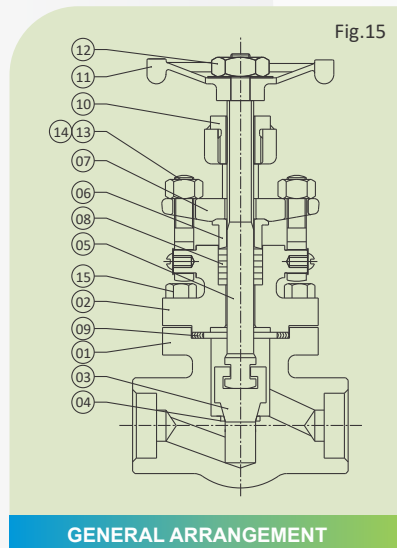
FORGED STEEL GLOBE VALVES

GLOBE VALVES - OS AND Y TYPE - ASME CLASS 800, 1500 AND 2500

(Ref. fig.15)

SR. NO.	COMPONENT	QTY.	A105 + TRIM 8	F11 + TRIM 5	F316 + TRIM 16
1	BODY	01	ASTM A105	ASTM A182 Gr. F11 -Cl.2	ASTM A182 Gr. F316
2	BONNET	01	ASTM A105	ASTM A182 Gr. F11 -Cl.2	ASTM A182 Gr. F316
3	PLUG	01	ASTM A217 Gr. CA15	ASTM A217 Gr. CA15 + HF	ASTM A351 Gr. CF8M + HF
4	SEAT RING	02	ASTM A105 + HF	ASTM A182 Gr. F11 -Cl.2+ HF	ASTM A182 Gr. F316 + HF
5	STEM	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
6	GLAND BUSH	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
7	GLAND FLANGE	01	ASTM A105	ASTM A105	STAINLESS STEEL
8	STEM PACKING	MIN 5	BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.		
9	GASKET	01	SPW, SS 316 + GRAPHITE		
10	YOKE BUSH	01	ASTM A582 TP. 416		
11	HANDWHEEL	01	SG IRON.		
12	HANDWHEEL NUT	01	CARBON STEEL		
13	EYE BOLT	02	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
14	NUT	02	ASTM A194 Gr. 2H	ASTM A194 Gr. 7	ASTM A194 Gr. 8M
15	HEX BOLTS (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
16	NAME PLATE	01 SET	ASTM A240 Gr. 304		

HF - HARD FACING, SPW - SPIRAL WOUND



FORGED STEEL GLOBE VALVES

(Ref. fig. 16)

SIZE		Class 800						Class 1500						Class 2500					
		L	H (Open)	ØA	ØB	ØK	Wt.	L	H (Open)	ØA	ØB	ØK	Wt.	L	H (Open)	ØA	ØB	ØK	Wt.
DN	NPS																		
15	1/2"	85	160	9	22.2	105	1.8	90	175	8	22.2	105	2.4	105	175	8	22.2	105	3.2
20	3/4"	90	175	12	27.6	105	2.4	105	200	9	27.6	105	3.2	127	200	9	27.6	150	7
25	1"	105	200	17	34.3	105	3.2	127	270	14	34.3	150	7	150	270	14	34.3	150	10
40	1 1/2"	127	270	28	49.2	150	7	150	310	25	49.2	150	10	185	310	25	49.2	200	13
50	2"	150	310	36	61.2	150	10	185	350	27	61.2	200	13	245	350	27	61.2	200	25

All Dimensions are in mm and Weights are in Kg.
For Valve Torque and Cv details, please visit our website www.ipcvalves.com



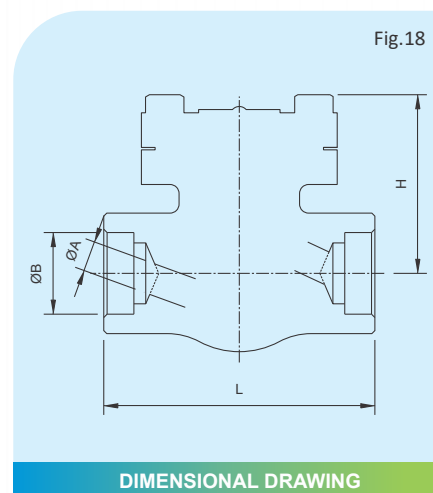
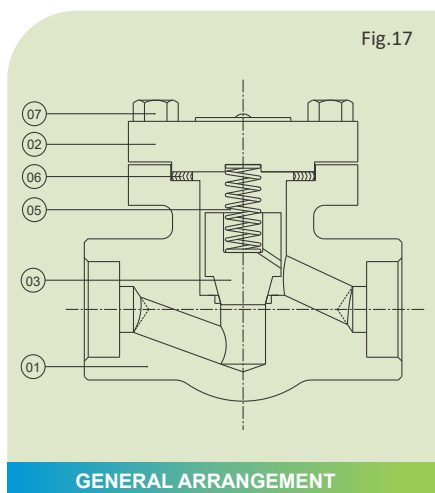
FORGED STEEL LIFT CHECK VALVES

LIFT CHECK VALVES - ASME CLASS 800, 1500 AND 2500

(Ref. fig.17)

SR. NO.	COMPONENT	QTY.	A105 + TRIM 8	F11 + TRIM 5	F316 + TRIM 16
1	BODY	01	ASTM A105	ASTM A182 Gr. F11 -Cl.2	ASTM A182 Gr. F316
2	COVER	01	ASTM A105	ASTM A182 Gr. F11 -Cl.2	ASTM A182 Gr. F316
3	PLUG	01	ASTM A276 TP. 410	ASTM A276 TP. 410 + HF	ASTM A276 TP. 316
4	SEAT RING	02	ASTM A105 + HF	ASTM A105 + HF	ASTM A182 Gr. F316 + HF
5	SPRINGS	01	ASTM A 313 Gr. 316		
6	GASKET	01	SPW, SS 316 + GRAPHITE		
7	HEX BOLTS (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B16	ASTM A193 Gr. B8M
8	NAME PLATE AND RIVETS	01 SET	ASTM A240 Gr. 304		

HF - HARD FACING, SPW - SPIRAL WOUND

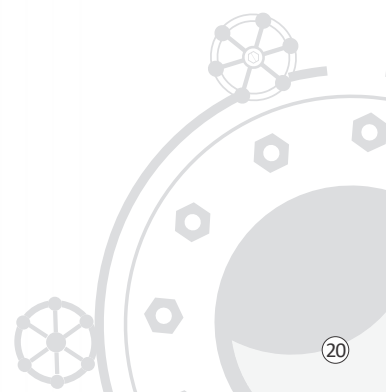


FORGED STEEL LIFT CHECK VALVES

(Ref. fig. 18)

SIZE		Class 800					Class 1500					Class 2500				
		L	H	ØA	ØB	Wt.	L	H	ØA	ØB	Wt.	L	H	ØA	ØB	Wt.
DN	NPS															
15	1/2"	85	55	9	22.2	1.2	90	60	8	22.2	1.6	105	60	8	22.2	2.4
20	3/4"	90	60	12	27.6	1.6	105	70	9	27.6	2.4	127	70	9	27.6	5.4
25	1"	105	70	17	34.3	2.4	127	105	14	34.3	5.4	150	105	14	34.3	7.5
40	1 1/2"	127	105	28	49.2	5.4	150	135	25	49.2	7.5	185	135	25	49.2	10
50	2"	150	135	36	61.7	7.5	185	150	27	61.7	10	245	150	27	61.7	22

All Dimensions are in mm and Weights are in Kg.
 Valve Torque and CV details will be made available on request with mail to sales.ipc@ipcvalves.com



TRIM TABLES

TRIM TABLE

TRIM NO.	DESIGNATION	MATERIAL OF CONSTRUCTION			
		BODY SEAT	WEDGE / GATE	STEM	STEM-BUSHING
1	F6 (NOT FOR API)	13% Cr.	13% Cr.	SS 410	SS 410
2	304	SS 304	SS 304	SS 304	SS 304
3	310	SS 310	SS 310	SS 310	SS 310
4	HARD F6	HARD SS-410	HARD SS-410	SS 410	SS 410
5	HARDFACED (F6)	STELLITED	STELLITED	SS 410	SS 410
5A	HARDFACED (F6)	Ni-Cr. ALLOY(HF)	Ni-Cr. ALLOY(HF)	SS 410	SS 410
6	F6 AND MONEL	MONEL (Ni-Cu)	MONEL (Ni-Cu)	SS 410	SS 410
7	F6 + HARD F6	HARD F6	SS 410	SS 410	SS 410
8	F6 + HF	STELLITED	13% Cr.	SS 410	SS 410
8A	F6 + HF(Ni-Cr.)	HF (Ni- Cr.)	SS 410	SS 410	SS 410
9	MONEL	MONEL	MONEL	MONEL	MONEL
10	SS 316	SS 316	SS 316	SS 316	SS 316
11	MONEL + HF	STELLITED	MONEL	MONEL	MONEL
12	SS 316 + HF	STELLITED	SS 316	SS 316	SS 316
13	ALLOY- 20	ALLOY - 20	ALLOY - 20	ALLOY - 20	ALLOY - 20
14	ALLOY- 20 + HF	STELLITED	ALLOY - 20	ALLOY - 20	ALLOY - 20
15	HARDFACED (SS 304)	STELLITED	STELLITED	SS 304	SS 304
16	HARDFACED (SS 316)	STELLITED	STELLITED	SS 316	SS 316
17	HARDFACED (SS 347)	STELLITED	STELLITED	SS 347	SS 347
18	HARDFACED (ALLOY- 20)	STELLITED	STELLITED	ALLOY - 20	ALLOY - 20
19	NICKEL	95 NI	95 NI	95 NI	95 NI
19A	INCONEL 625	INCONEL 625	INCONEL 625	INCONEL 625	INCONEL 625
19B	HASTELLOY C276	HASTELLOY C276	HASTELLOY C276	HASTELLOY C276	HASTELLOY C276
19C	INCONEL 825	INCONEL 825	INCONEL 825	INCONEL 825	INCONEL 825
20	HARDFACED (95 NI)	STELLITED	95 NI	95 NI	95 NI
20A	HARDFACED (INCONEL 625)	STELLITED	STELLITED	INCONEL 625	INCONEL 625
20B	HARDFACED (HASTELLOY C276)	STELLITED	STELLITED	HASTELLOY C276	HASTELLOY C276
20C	HARDFACED (INCONEL 825)	STELLITED	STELLITED	INCONEL 825	INCONEL 825
21	HARDFACED (95 NI)	STELLITED	STELLITED	95 NI	95 NI

ADDITIONAL INFORMATION

Sr.No.	Body / Bonnet MOC	Recommended Trim
1	A 216 Gr. WCB / A 105	Trim 8
2	A 217 Gr.WC6 / F11	Trim 8 / 8A
3	A 217 Gr.WC9 / F22	Trim 8 / 8A
4	A 351 Gr.CF8 / F304	Trim 15 / 2
5	A 351 Gr.CF8M / F316	Trim 10
6	A 351 CF3 / F 304L	Trim 15 / 2
7	A 351 CF3M / F 316L	Trim 10
8	A 217-C12A / F91	Trim 8 / 8A
9	A 217-C12 / F9	Trim 8 / 8A
10	A 352-LCB / LF2	Trim 8 / 8A

ALTERNATE TRIM - TABLE

Sr.No.	Specified Trim No.	Alternate Trim No.
1	Trim 5A	Trim - 5
2	Trim 8	Trim - 5
3	Trim 8A	Trim - 8
4	Trim 10	Trim - 12 / 16
5	Trim 13	Trim - 14
6	Trim 12	Trim - 16

ORDERING INFORMATION

1	2	3	4	5	6	7	8	9	10	
SERIES	SIZE	PRESSURE RATING	END CONNECTION DETAILS	BODY / BONNET MOC	TRIM	STEM MOC	GASKET AND PACKING MOC	OPERATOR AND ACCESSORIES (IF REQUIRED)	TESTING REQUIREMENT	SPECIAL REQUIREMENT (IF REQUIRED)
701	H1	1	RF	CB	01	00	00	00	00	00

1 SERIES

701	CS GATE VALVE - BOLTED BONNET
702	CS GATE VALVE - PRESSURE SEAL BONNET
703	FS GATE VALVE - BOLTED BONNET
704	FS GATE VALVE - PRESSURE SEAL BONNET
705	FS GATE VALVE - WELDED BONNET
801	CS GLOBE VALVE - BOLTED BONNET, T-TYPE
802	CS GLOBE VALVE - PRESSURE SEAL BONNET, T-TYPE
803	CS GLOBE VALVE - BOLTED BONNET, Y-TYPE
804	CS GLOBE VALVE - PRESSURE SEAL BONNET, Y-TYPE
805	FS GLOBE VALVE - BOLTED BONNET, T-TYPE
806	FS GLOBE VALVE - WELDED BONNET, T-TYPE
807	FS GLOBE VALVE - BOLTED BONNET, Y-TYPE
808	FS GLOBE VALVE - WELDED BONNET, Y-TYPE
901	CS SWING CHECK VALVE - BOLTED COVER
902	CS SWING CHECK VALVE - PRESSURE SEAL COVER
903	FS LIFT CHECK VALVE - BOLTED COVER
904	FS LIFT CHECK VALVE - PRESSURE SEAL COVER
905	FS LIFT CHECK VALVE - WELDED COVER
906	CS LIFT CHECK VALVE - BOLTED COVER
908	QC NRV - BOLTED COVER

2 SIZE

H1	1/2" NPS	(DN-15)
Q3	3/4" NPS	(DN-20)
01	1" NPS	(DN-25)
1Q	1 1/4" NPS	(DN-32)
1H	1 1/2" NPS	(DN-40)
02	2" NPS	(DN-50)
2H	2 1/2" NPS	(DN-65)
03	3" NPS	(DN-80)
04	4" NPS	(DN-100)
05	5" NPS	(DN-125)
06	6" NPS	(DN-150)
08	8" NPS	(DN-200)
10	10" NPS	(DN-250)
12	12" NPS	(DN-300)
14	14" NPS	(DN-350)
16	16" NPS	(DN-400)
18	18" NPS	(DN-450)
20	20" NPS	(DN-500)
22	22" NPS	(DN-550)
24	24" NPS	(DN-600)

3 PRESSURE RATING

1	CLASS 150(PN-20)
3	CLASS 300(PN-50)
4	CLASS 400(PN-64)
6	CLASS 600(PN-100)
8	CLASS 800
9	CLASS 900(PN-150)
A	CLASS 1500(PN-250)
B	CLASS 2500(PN-320)
C	CLASS 4500(PN-420)
D	PN-06
E	PN-10
F	PN-16
G	PN-25
H	PN-40

4 END CONNECTIONS

RF	FERF SERRATED
FF	FEFF SERRATED
RS	FERF SMOOTH
S3	SW ENDS (3000 PSI)
S6	SW ENDS (6000 PSI)
ST	BW ENDS (SCH-STD)
01	BW ENDS (SCH-10)
02	BW ENDS (SCH-20)
03	BW ENDS (SCH-30)
04	BW ENDS (SCH-40)
06	BW ENDS (SCH-60)
08	BW ENDS (SCH-80)
12	BW ENDS (SCH-120)
16	BW ENDS (SCH-160)

5 BODY/BONNET MOC + BOLTING

CB	A216 Gr. WCB + B7/2H
CC	A216 Gr. WCC + B7/2H
C6	A217 Gr. WC6 + B16/8M
C9	A217 Gr. WC9 + B16/8M
F8	A351 Gr. CF8 + B8M/8M
C5	A217 Gr. CA15 + B8/Gr.8
8M	A351 Gr. CF8M + B8M/8M
LB	A352 Gr. LCB + B7/2H
C3	A351 Gr. LC3 + B16/8M
LC	A352 Gr. LCC + B7/2H
01	A351 Gr. CG8M + B8M/8M
02	A351 Gr. CG3M + B8M/8M
C2	A217 Gr. C12 + B16/8M
CA	A217 Gr. C12A + B16/8M
05	A105 + B7/2H

6 TRIM

01	TRIM-1
02	TRIM-2
03	TRIM-3
04	TRIM-4
05	TRIM-5
5A	TRIM-5A
06	TRIM-6
07	TRIM-7
08	TRIM-8
8A	TRIM-8A
--	
16	TRIM-16
17	TRIM-17
18	TRIM-18

7 STEM

00	NONE
01	A276 Gr. 410
02	A276 Gr. 304
03	A276 Gr. 304L
04	A276 Gr. 316
05	A276 Gr. 316L
06	A182 Gr. F6A
07	A276 Gr. SS347
08	ALLOY-20

8 GASKET AND PACKING

00	NONE
01	SPW SS304+GRAPHITE/GRAPHITE
02	SPW SS316+GRAPHITE/GRAPHITE
03	SPW SS304+PTFE/PTFE
04	SPW SS316+PTFE/PTFE
05	CORROGATED SS304/GRAPHITE
06	CORROGATED SS316/GRAPHITE
07	OCTAGONAL RING (RTJ)
08	PRESSURE SEAL GASKET

9 OPERATOR & ACCESSORIES

00	NONE
HW	HANDWHEEL
BS	BARE STEM
01	HANDWHEEL+PI
02	HANDWHEEL+LO
03	HANDWHEEL+PI+LO
06	ELECTRICAL ACTUATOR WITH GEAR OPERATION
HA	HYDRAULIC ACTUATOR
PA	PNEUMATIC ACTUATOR
PS	PNEUMATIC CYLINDER

10 TESTING REQUIREMENT

00	NONE
01	STANDARD TESTING

VALVE AUTOMATION



Globe valve with Gear Box



Gate Valve with Gear Box



Globe Valve with Electrical Actuator



Gate Valve with Linear Actuator



Globe Valve with Linear Diaphragm Actuator



Actuated Quick Closing Non Return Valve (NRV)



Ball Valve with Valve Controller



Standard On - off Ball Valve



Manual Valve with Limit Switch Box



Centric Butterfly Valve



Automated PFA Lined Ball Valve



Automated Plug Valve with IPC Limit Switch Box



Zero Cavity Wafer Style Automated Ball Valve



Double Offset Butterfly Valve



Zero Cavity Wafer Style Ball Valve



Weather Proof Limit Switch Box



Flame Proof Limit Switch Box



Quarter Turn Pneumatic Actuator



Heavy Duty Scotch Yoke Actuator



Valve with Extended Stem



Ball Valve with Spring return Handwheel

*To know more about IPC Valve Automation Solutions, please ask for our Actuated Valves catalogue.

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 <p>Boiler Industry</p>	 <p>T B & W THERMAX Babcock & Wilcox Energy Solutions</p>	 <p>thyssenkrupp</p>	 <p>ISGEC ISGEC HEAVY ENGINEERING LTD.</p>	 <p>IBL Group of Companies</p>		 <p>NCL GROUP</p>	
 <p>Chemical & Paint Industry</p>	 <p>ADITYA BIRLA GRASIM</p>	 <p>GHARDA CHEMICALS LIMITED</p>	 <p>NOCIL</p>	 <p>asianpaints</p>	 <p>JSW PAINTS</p>	 <p>PRIVI SPECIALITY CHEMICALS LIMITED</p>	
 <p>Fertiliser Industry</p>	 <p>DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LIMITED</p>	 <p>SMARTCHEM TECHNOLOGIES LIMITED</p>	 <p>GUJARAT STATE FERTILIZERS & CHEMICALS LIMITED</p>	 <p>Coromandel FUTURE POSITIVE</p>	 <p>PARADEEP PHOSPHATES LIMITED</p>	 <p>एन एफ एल NFL</p>	
 <p>Oil & Gas Industry</p>	 <p>ओ पी एल OPAL</p>	 <p>CMAFFFL Mumbai Aviation Fuel Farm Facility Pvt. Ltd. Fueling Trust</p>	 <p>इंडियन ऑयल IndianOil</p>	 <p>गैल GAIL</p>	 <p>हिन्दुस्तान पेट्रोलियम HP</p>	 <p>PIL</p>	
 <p>Power Generation Industry</p>	 <p>MAHAGENCO Maharashtra State Power Generation Co. Ltd.</p>	 <p>adani Electricity</p>	 <p>GSECL GUJARAT STATE ELECTRICITY LTD.</p>	 <p>torrent POWER</p>	 <p>JINDAL POWER</p>		
 <p>Steel Industry</p>	 <p>ArcelorMittal</p>	 <p>JSW Steel</p>	 <p>JINDAL STEEL LIMITED</p>				



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