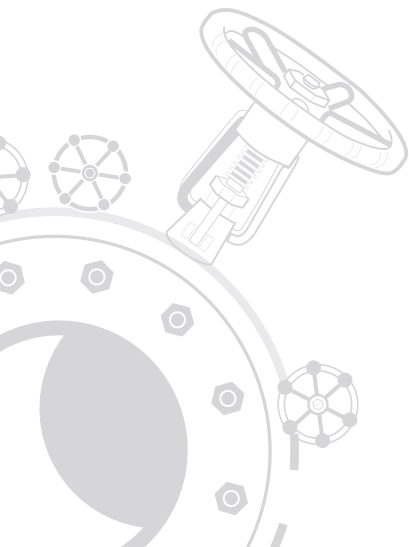


GATE GLOBE & CHECK VALVES

by



www.ipcvalves.com

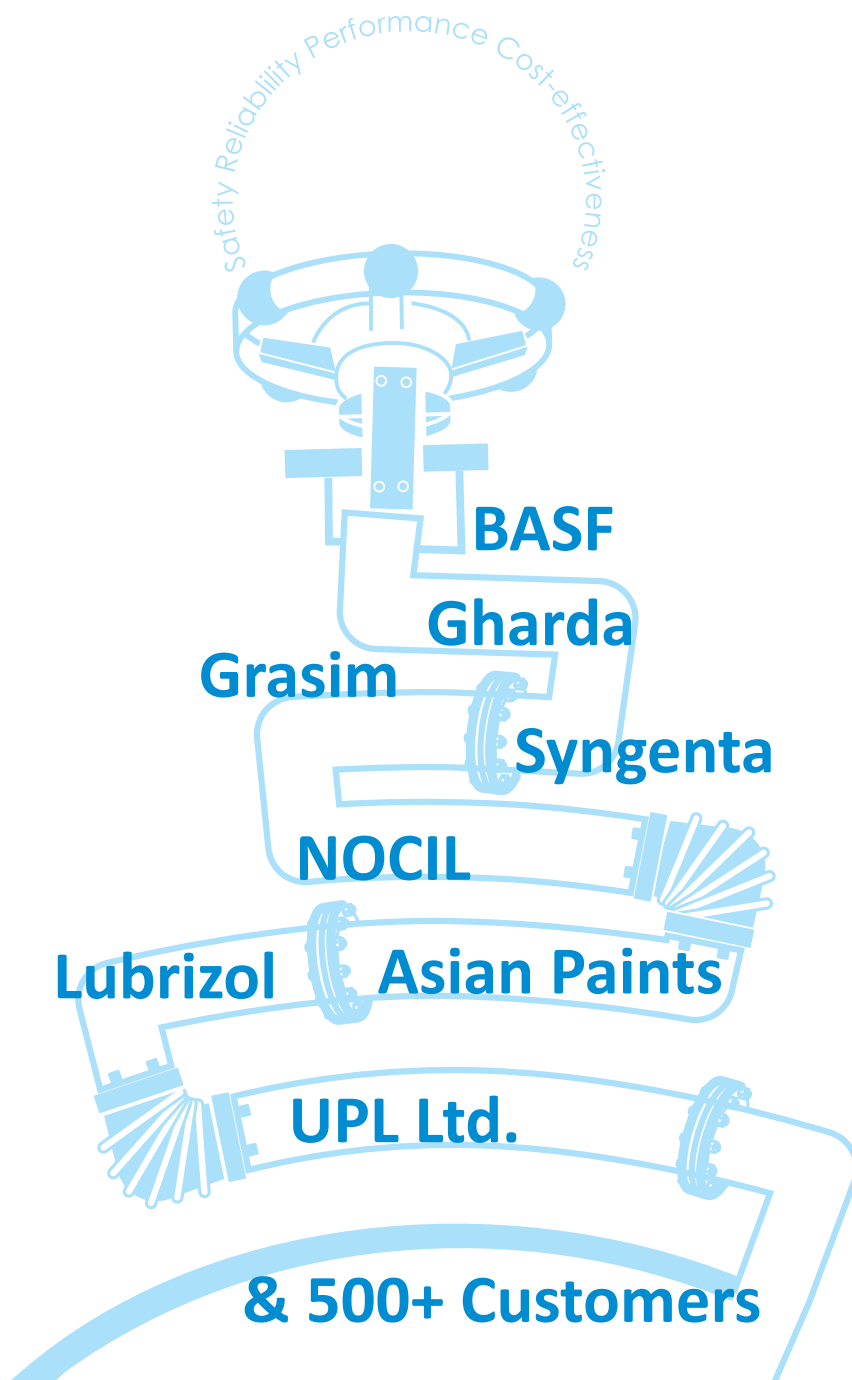




ABOUT US

'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.

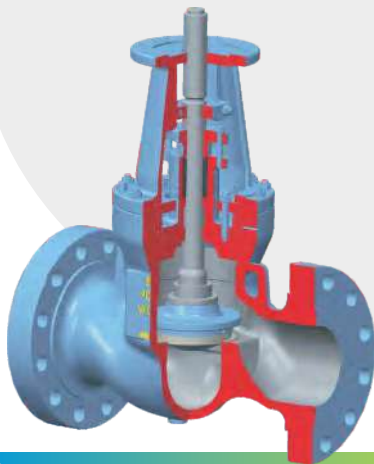
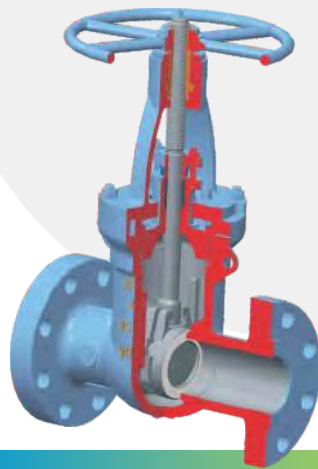
Today, IPC is all set to take a new leap of growth. With our expertise and robust manufacturing capabilities, we offer a comprehensive range of Gate, Globe and Check Valves and valve automation solutions. Integral Process Controls is an ISO 9001:2008, ISO 18001:2007 & ISO 29001:2010 Certified Company.



GATE, GLOBE & CHECK VALVES

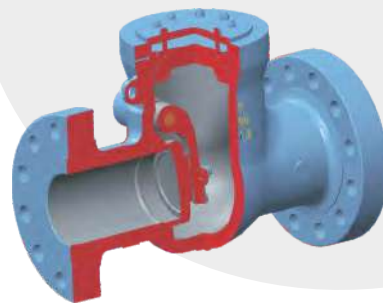
GATE

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 its innovative features enhances the performance & safety
- IPC Gate and Globe Valves have pillar 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, integral 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 forged 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
- Die moulded graphite packing rings with top & bottom braided graphite rings increase the life of seals

Packing / Seals

- Gate, Globe & Check Valves conform to ASME B 16.34
- Designed in accordance to BS EN 1414/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

Standards & Certifications

CAPABILITIES

Engineering

- Innovative and creative design team
- Latest 2D and 3D design tools ensure robust and foolproof design
- Capability to deliver products developed with advanced technology
- Advanced R&D processes ensure continual innovation and upgradation of products

Manufacturing

- Modern & specialized manufacturing facilities
- Well trained teams delivering quality workmanship

Process Control

- Robust ERP system integrates all organizational processes which enhances delivery and product traceability
- Quality Management Systems ensure consistent quality and in time delivery

Health, Safety & Environment (HSE)

- HSE is integrated into the manufacturing and management processes
- Considerable investment in safety, training and development infrastructure
- Firm commitment to global safety standards (OHSAS)





GATE VALVES

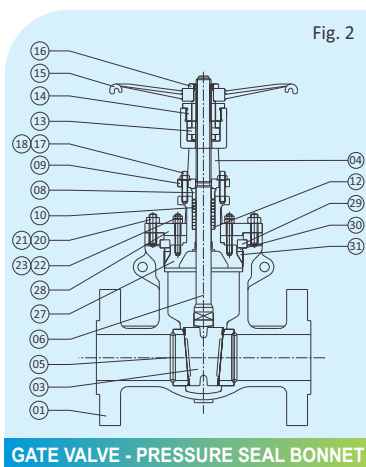
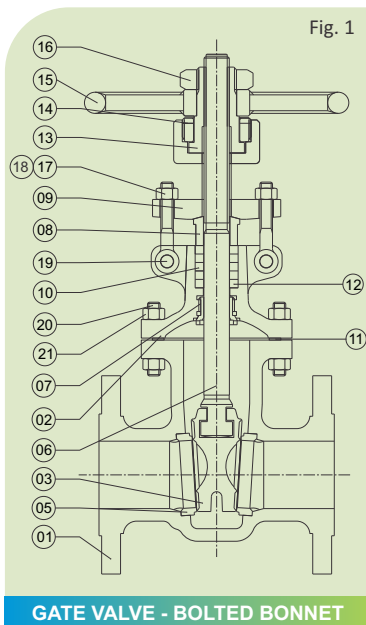
GATE VALVES OS & Y TYPE

- **PRESSURE RATING** #150 THROUGH #4500
- **SIZES** - 2" TO 24" (DN-50 TO DN-600)
- **MFG STANDARDS** - API 600 / BS EN 1414 / 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



GATE VALVES - OS AND Y TYPE - #150 THROUGH #4500

(Ref. fig.1 & 2)



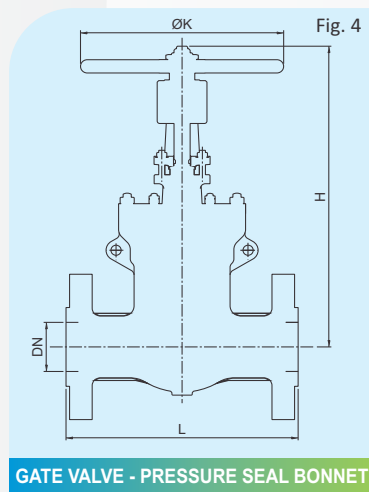
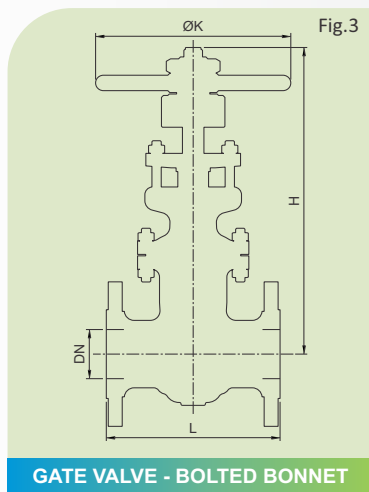
SR. NO.	COMPONENT	QTY.	WCB + TRIM 8	WC6 + TRIM 8	CF8M + TRIM 16
1	BODY	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
2	BONNET	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
3	WEDGE	01	ASTM A216 Gr. WCB + HF	ASTM A217 Gr. WC6 + HF	ASTM A351 Gr. CF8M + HF
4	YOKE	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
5	SEAT RING	02	CARBON STEEL + HF	ASTM A217 Gr. WC6 + 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	DIE MOULDED GRAPHITE RINGS + (2 NOS. BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.)		
11	GASKET	01	SPW, SS304 + GRAPHITE	SPW, SS304 + 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	CARBON STEEL
15	HANDWHEEL	01	FABRICATED STEEL	FABRICATED STEEL	FABRICATED STEEL
16	HANDWHEEL NUT	01	CARBON STEEL	CARBON STEEL	CARBON STEEL
17	EYE BOLT	02	ASTM A307 Gr. B	ASTM A307 Gr. B	ASTM A307 Gr. B
18	NUT	02	ASTM A563 Gr. A	ASTM A563 Gr. A	ASTM A563 Gr. A
19	COLLAR PIN	02	ALLOY STEEL (HARDENED)	ALLOY STEEL (HARDENED)	ALLOY STEEL (HARDENED)
20	STUD (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
21	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 8M
22	STUD (BONNET TO YOKE)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
23	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	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
27	PRESSURE SEAL BONNET	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
28	BONNET FLANGE	01	ASTM A516 Gr. 70	ASTM A516 Gr. 70	ASTM A240 Gr. 316
29	SEGMENTAL RING	01	ASTM A182 Gr F6a	ASTM A182 Gr F6a	ASTM A182 Gr. F316
30	SUPPORT RING	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
31	PRESSURE SEAL GASKET (METALLIC)	01	SOFT IRON / ASTM A479 Gr. 316	SOFT IRON / ASTM A479 Gr. 316	ASTM A276 TP. 316
	PRESSURE SEAL GASKET (SOFT)		TANGED GRAFOIL	TANGED GRAFOIL	TANGED GRAFOIL

HF - HARD FACING, SPW - SPIRAL WOUND

CAST STEEL GATE VALVES - BOLTED BONNET

(Ref. fig. 3)

SIZE		# 150						# 300						# 600					
		L		H	ØK	Wt.		L	H	ØK	Wt.		L	H	ØK	Wt.			
DN	NPS	FL	BW			FL	BW				FL & BW	FL				BW	FL & BW	FL	BW
50	2"	178	216	320	200	17	15	216	320	200	20	18	292	266	200	30	24		
65	2 1/2"	190	241	355	230	23	18	241	355	230	28	21	330	397	250	50	45		
80	3"	203	282	405	230	28	20	282	402	230	38	26	356	450	250	70	66		
100	4"	229	305	485	250	45	35	305	485	250	65	42	432	565	300	105	98		
125	5"	254	381	540	250	55	44	381	540	350	95	65	508	642	400	160	150		
150	6"	267	403	605	300	65	55	403	670	350	128	81	559	770	450	222	195		
200	8"	292	419	770	350	103	82	419	840	400	188	140	660	935	450	365	312		
250	10"	330	457	945	400	170	158	457	1080	450	300	229	787	1100	500*	650	552		
300	12"	356	502	1175	450	261	230	502	1040	500*	430	335	838	1220	600*	900	784		
350	14"	381	572	1539	500*	410	365	762	1590	500*	750	620	889	1565	600*	1600	1465		
400	16"	406	610	1752	500*	520	490	838	1791	600*	958	850	991	2062	750*	1955	1760		
450	18"	432	660	1956	600*	690	665	914	2126	700*	1310	1075	1092	2062	750*	2075	1840		
500	20"	457	711	2159	600*	900	865	991	2261	700*	1640	1525	1194	3048	750*	2150	1960		
600	24"	508	813	2565	700*	1410	1375	1143	2654	750*	2460	2075	1397	3150	750*	3620	3180		



CAST STEEL GATE VALVES - PRESSURE SEAL BONNET

(Ref. fig. 4)

SIZE		# 900					# 1500					# 2500				
		L	H	ØK	Wt.		L	H	ØK	Wt.		L	H	ØK	Wt.	
DN	NPS				FL & BW	FL				BW	FL & BW				FL	BW
50	2"	368	550	300	75	62	368	570	300	95	80	451	600	400	110	96
65	2 1/2"	419	645	300	90	78	419	670	300	110	93	508	695	450	130	108
80	3"	381	670	300	96	83	470	725	300*	125	108	578	740	300*	140	116
100	4"	457	790	400	136	120	546	850	300*	205	160	673	890	350*	225	185
125	5"	559	855	450	225	185	673	890	300*	256	215	794	970	350*	295	242
150	6"	610	1075	300*	275	225	705	1125	350*	330	280	914	1135	350*	495	410
200	8"	737	1225	350*	490	398	832	1235	350*	655	600	1022	1350	400*	825	700
250	10"	838	1500	400*	825	700	991	1520	400*	1200	1050	1270	1680	450*	1480	1310
300	12"	965	1635	400*	1150	1020	1130	1650	400*	2010	1780	1422	1750	450*	2400	2090

* MARK INDICATES MANUAL GEAR OPERATOR
 All Dimensions are in mm and Weights are in Kg.
 For Valve Torque and Cv details, please visit our website

FL - FLANGED, BW - BUTTWELD



GLOBE VALVES

GLOBE VALVES OS & Y TYPE

- **PRESSURE RATING** #150 THROUGH #4500
- **SIZES** - 2" TO 24" (DN-50 TO DN-600)
- **MFG STANDARDS** - BS 1873 / ASME B16.34 / API 623
- **FLANGE DETAILS** - STD AS PER ASME B16.5

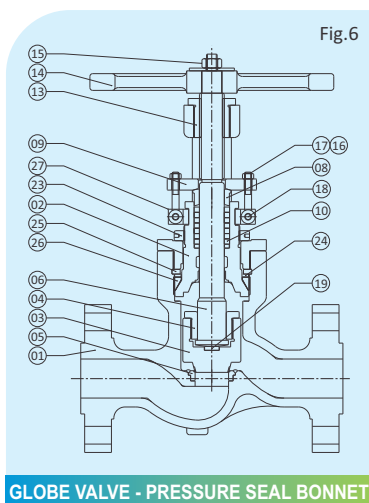
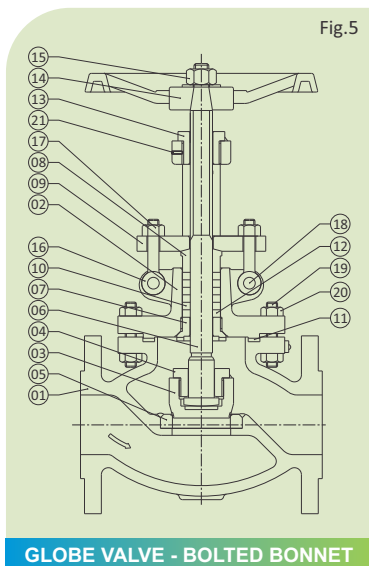
OTHERS AS PER BS, AWWA, EN, DIN, etc.

- **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 - #150 THROUGH #4500

(Ref. fig.5 & 6)



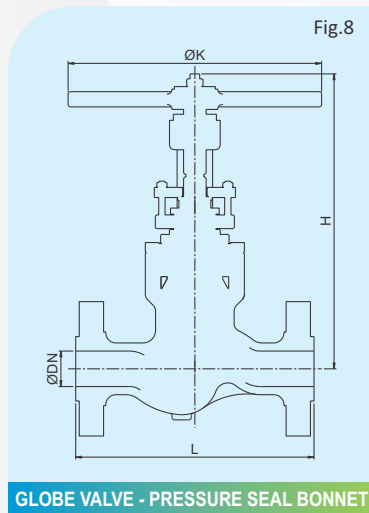
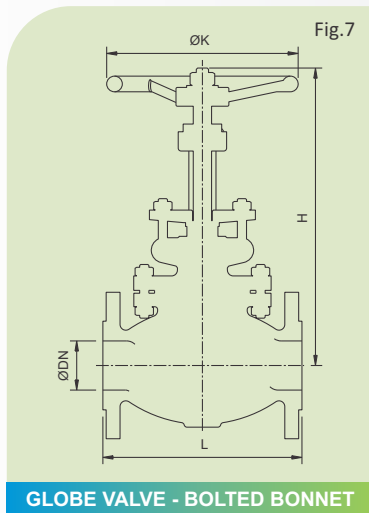
SR. NO.	COMPONENT	QTY.	WCB + TRIM 8	WC6 + TRIM 8	CF8M + TRIM 16
1	BODY	1	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
2	BONNET	1	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
3	DISC	1	ASTM A216 Gr. WCB + HF	ASTM A217 Gr. WC6 + HF	ASTM A351 Gr. CF8M + HF
4	DISC NUT	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
5	SEAT RING	1	CARBON STEEL + HF	ASTM A217 Gr. WC6 + 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	DIE MOULDED GRAPHITE RINGS + (2 NOS. BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.)		
11	GASKET	1	SPW, SS304 + GRAPHITE	SPW, SS304 + GRAPHITE	SPW, SS316 + GRAPHITE
12	ANTI EXTRUSION RING	1	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
13	YOKE BUSH	1	ASTM A439 Gr. D2	ASTM A439 Gr. D2	ASTM A439 Gr. D2
14	HANDWHEEL	1	FABRICATED STEEL	FABRICATED STEEL	FABRICATED STEEL
15	HANDWHEEL NUT	1	CARBON STEEL	CARBON STEEL	CARBON STEEL
16	EYE BOLT	2	ASTM A307 Gr. B	ASTM A307 Gr. B	ASTM A307 Gr. B
17	NUT	2	ASTM A563 Gr. A	ASTM A563 Gr. A	ASTM A563 Gr. A
18	COLLER PIN	2	ALLOY STEEL (HARDENED)	ALLOY STEEL (HARDENED)	ALLOY STEEL (HARDENED)
19	STUD (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
20	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 8M
21	GRUB SCREW	1	IS 6094 - II	IS 6094 - II	IS 6094 - II
22	NAME PLATE AND RIVETS	01 SET	ASTM A240 Gr. 304	ASTM A240 Gr. 304	ASTM A240 Gr. 304
23	RETAINER	01	CARBON STEEL	CARBON STEEL	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 A276 Gr. 316	SOFT IRON / ASTM A276 Gr. 316	ASTM A276 TP. 316
	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

CAST STEEL GLOBE VALVES - BOLTED BONNET

(Ref. fig. 7)

SIZE		# 150					# 300					# 600				
		L	H	ØK	Wt.		L	H	ØK	Wt.		L	H	ØK	Wt.	
DN	NPS	FL & BW			FL	BW	FL & BW			FL	BW	FL & BW			FL	BW
50	2"	203	300	200	20	17	267	300	200	20	18	292	365	250	30	26
65	2 1/2"	216	325	250	25	20	292	320	200	30	25	330	390	300	45	35
80	3"	241	360	250	30	27	318	355	250	40	32	356	420	350	55	40
100	4"	292	405	300	47	43	356	420	350	62	49	432	465	400	92	72
125	5"	356	425	350	65	55	400	480	350	90	80	508	500	500	145	135
150	6"	406	452	350	80	72	444	520	450	120	98	559	550	600*	195	145
200	8"	495	520	450	120	108	559	535	600*	190	157	660	695	600*	350	270
250	10"	622	550	500*	186	171	622	625	600*	291	242	787	770	750*	756	656
300	12"	698	645	600*	292	267	711	735	750*	450	379	838	850	750*	1086	896
350	14"	787	1200	600*	525	510	-	-	-	-	-	-	-	-	-	-
400	16"	914	1270	650*	650	630	-	-	-	-	-	-	-	-	-	-



CAST STEEL GLOBE VALVES - PRESSURE SEAL BONNET

(Ref. fig. 8)

SIZE		# 900					# 1500					# 2500				
		L	H	ØK	Wt.		L	H	ØK	Wt.		L	H	ØK	Wt.	
DN	NPS	FL & BW			FL	BW	FL & BW			FL	BW	FL & BW			FL	BW
50	2"	368	550	300	70	60	368	482	300	80	70	451	495	350	95	85
65	2 1/2"	419	580	350	85	75	419	482	350	90	80	508	495	350	110	100
80	3"	381	675	350	105	95	470	577	400	115	105	578	603	350*	125	110
100	4"	457	750	500	130	115	546	685	450*	160	150	673	685	400*	210	195
125	5"	559	815	500	255	245	673	825	500*	300	285	794	875	400*	565	550
150	6"	609	1085	350*	315	305	705	933	600*	410	395	914	971	400*	615	600
200	8"	736	1300	350*	670	655	832	1193	450*	650	280	1022	1200	450*	1050	1035
250	10"	838	1420	400*	925	910	991	1270	500*	1150	1135	1270	1416	550*	1525	1505
300	12"	965	1825	450*	1200	1185	1130	1447	1066	1725	1725	1422	1524	750*	2285	2250

* MARK INDICATES MANUAL GEAR OPERATOR
 All Dimensions are in mm and Weights are in Kg.
 For Valve Torque and Cv details, please visit our website

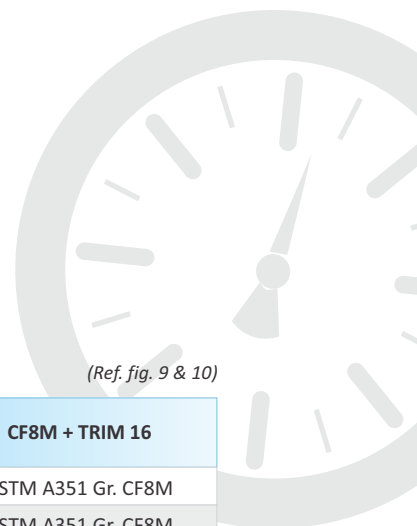
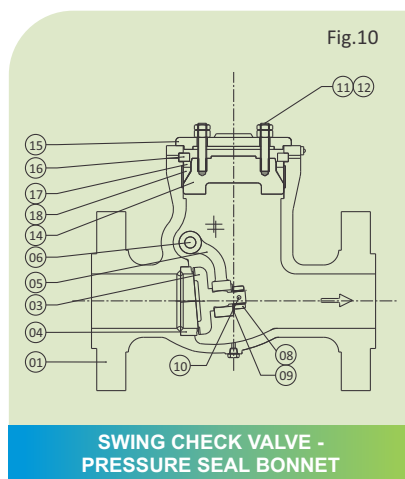
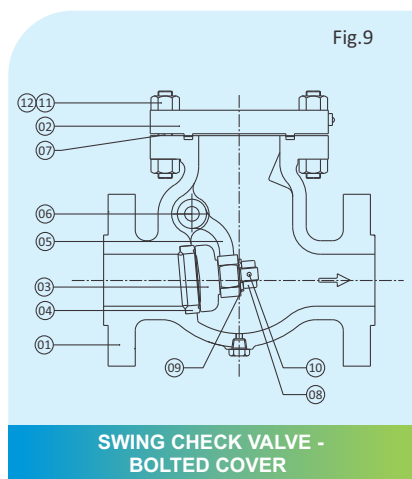
FL - FLANGED, BW - BUTTWELD



SWING CHECK VALVES

CHECK VALVES SWING TYPE

- **PRESSURE RATING** #150 THROUGH #4500
- **SIZES** - 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



(Ref. fig. 9 & 10)

CHECK VALVES - SWING TYPE - #150 THROUGH #4500

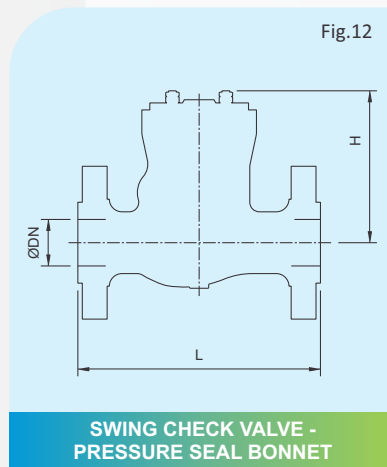
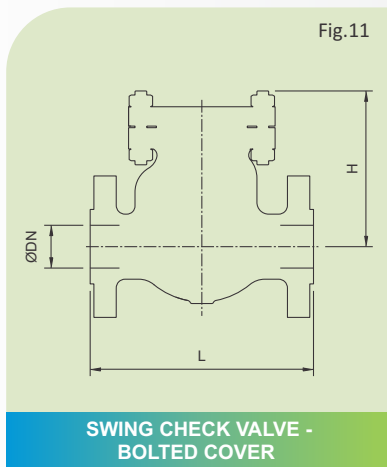
SR. NO.	COMPONENT	QTY.	WCB + TRIM 8	WC6 + TRIM 8	CF8M + TRIM 16
1	BODY	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
2	COVER	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
3	DISC	01	ASTM A216 Gr. WCB + HF	ASTM A217 Gr. WC6 + HF	ASTM A351 Gr. CF8M + HF
4	SEAT RING	01	CARBON STEEL + 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, SS304 + GRAPHITE	SPW, SS304 + 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. B7	ASTM A193 Gr. B8M
12	NUT	AS REQ.	ASTM A194 Gr. 2H	ASTM A194 Gr. 2H	ASTM A194 Gr. 8M
13	NAME PLATE & RIVETS	01 SET	ASTM A240 Gr. 304	ASTM A240 Gr. 304	ASTM A240 Gr. 316
14	PRESSURE SEAL BONNET	01	ASTM A216 Gr. WCB	ASTM A217 Gr. WC6	ASTM A351 Gr. CF8M
15	COVER PLATE	01	ASTM A516 Gr. 70	ASTM A516 Gr. 70	ASTM A240 Gr. 316
16	SEGMENTAL RING	01	ASTM A182 Gr F6a	ASTM A182 Gr F6a	ASTM A182 Gr. F316
17	SUPPORT RING	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
18	PRESSURE SEAL GASKET (METALLIC)	01	SOFT IRON/ASTM A276 Gr.316	SOFT IRON/ASTM A276 Gr.316	ASTM A276 TP. 316
	PRESSURE SEAL GASKET (SOFT)	01	TANGED GRAFOIL	TANGED GRAFOIL	TANGED GRAFOIL

HF - HARD FACING, SPW - SPIRAL WOUND

CAST STEEL SWING CHECK VALVES - BOLTED COVER

(Ref. fig.11)

SIZE		# 150				# 300				# 600			
		L	H	Wt.		L	H	Wt.		L	H	Wt.	
DN	NPS	FL & BW		FL	BW	FL & BW		FL	BW	FL & BW		FL	BW
50	2"	203	135	13	16	267	135	16	13	292	165	35	32
65	2 1/2"	216	145	19	24	292	145	32	30	330	175	42	40
80	3"	241	165	23	32	318	170	50	45	356	205	47	44
100	4"	292	190	40	43	356	225	55	44	432	260	92	88
125	5"	330	210	48	68	400	235	85	80	508	295	130	122
150	6"	356	230	62	78	444	260	100	85	559	315	189	180
200	8"	495	295	105	118	533	320	160	150	660	380	321	310
250	10"	622	350	170	198	622	400	260	248	787	410	528	518
300	12"	698	425	270	310	711	440	380	368	838	460	785	778
350	14"	787	460	471	450	838	500	650	639	889	532	859	850
400	16"	864	530	575	550	864	545	800	889	991	594	985	978
450	18"	978	570	788	772	978	605	970	955	1092	728	1091	1084
500	20"	978	625	916	898	1016	675	1350	1325	1194	689	1185	1160
600	24"	1295	675	1275	1225	1346	785	2210	2180	1397	907	1390	1350



CAST STEEL SWING CHECK VALVES - PRESSURE SEAL BONNET

(Ref. fig. 12)

SIZE		# 900				# 1500				# 2500			
		L	H	Wt.		L	H	Wt.		L	H	Wt.	
DN	NPS	FL & BW		FL	BW	FL & BW		FL	BW	FL & BW		FL	BW
50	2"	368	180	55	52	368	180	70	67	451	205	120	115
65	2 1/2"	419	220	60	57	419	220	75	70	508	235	125	118
80	3"	381	228	60	57	470	228	75	70	578	255	125	118
100	4"	457	255	75	70	546	255	110	100	673	305	170	80
125	5"	559	300	135	127	673	300	190	178	794	335	350	335
150	6"	610	330	160	151	705	330	240	220	914	355	460	450
200	8"	737	406	285	278	832	406	430	415	1022	430	705	195
250	10"	838	480	485	450	991	480	740	720	1270	585	1450	1425
300	12"	965	560	685	650	1130	560	1100	1085	1422	635	2080	2045

* MARK INDICATES MANUAL GEAR OPERATOR
 All Dimensions are in mm and Weights are in Kg.
 For Valve Torque and Cv details, please visit our website

FL - FLANGED, BW - BUTTWELD

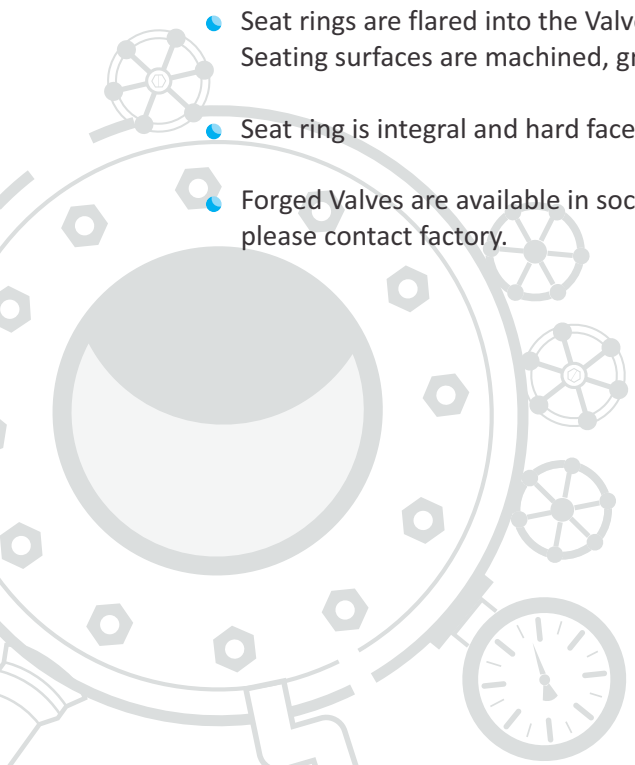


FORGED STEEL VALVES



ASME # 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 double start ACME thread for smooth and fast operation.
- Seat rings are flared into the 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.



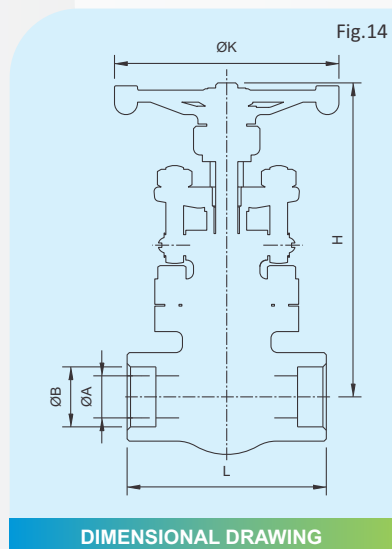
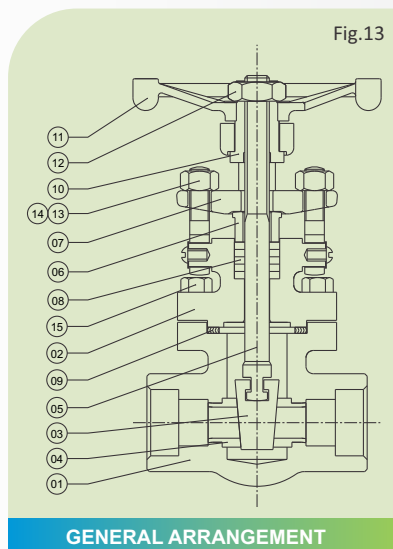
FORGED STEEL GATE VALVES

GATE VALVES - OS AND Y TYPE - # 800 # 1500, AND # 2500

(Ref. fig.13)

SR. NO.	COMPONENT	QTY.	A105 + TRIM 8	F11 + TRIM 8	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	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	1 SET	DIE MOULDED GRAPHITE RINGS + (2 NOS. BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.)		
9	GASKET	01	SPW, SS 304 + GRAPHITE	SPW, SS 304 + GRAPHITE	SPW, SS 316 + GRAPHITE
10	YOKE SLEEVE	01	ASTM A582 TP. 416	ASTM A582 TP. 416	ASTM A582 TP. 416
11	HANDWHEEL	01	SG IRON.	SG IRON.	SG IRON.
12	HANDWHEEL NUT	01	CARBON STEEL	CARBON STEEL	CARBON STEEL
13	EYE BOLT	02	ASTM A307 Gr. B	ASTM A307 Gr. B	ASTM A307 Gr. B
14	NUT	02	ASTM A563 Gr. A	ASTM A563 Gr. A	ASTM A563 Gr. A
15	HEX BOLTS (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
16	NAME PLATE	01 SET	ALUMINIUM	ALUMINIUM	ALUMINIUM

HF - HARD FACING, SPW - SPIRAL WOUND



FORGED STEEL GATE VALVES

(Ref. fig. 14)

SIZE		# 800						# 1500 / # 2500					
		L	H	ØA	ØB	ØK	Wt.	L	H	ØA	ØB	ØK	Wt.
DN	NPS	SW				SW	SW					SW	SW
15	1/2"	80	138	16	22.2	90	1.7	90	152	9.6	22.2	88	2.2
20	3/4"	85	144	21	27.6	90	2.1	110	190	14	27.6	97	3.9
25	1"	100	174	27	34	102	3.5	127	220	18	34	138	6.3
40	1 1/2"	125	223	41	48.8	140	6.6	127	282	30	48.8	138	10.6
50	2"	130	244	52.5	61.2	185	10	210	345	36.5	61.2	138	20.1

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

SW - SOCKET WELDED



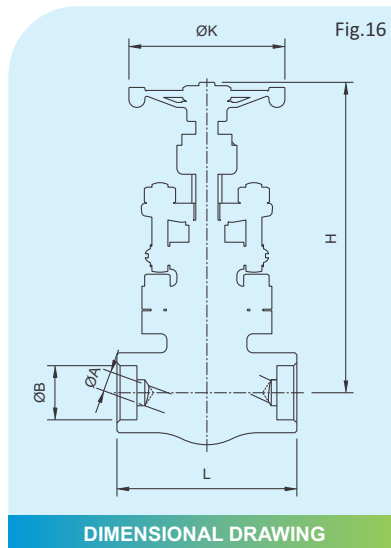
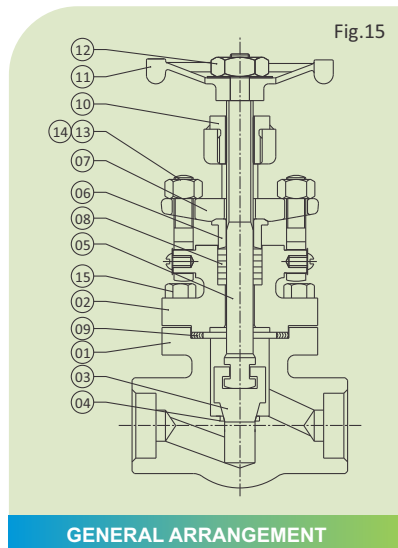
FORGED STEEL GLOBE VALVES

GLOBE VALVES - OS AND Y TYPE - # 800 # 1500, AND # 2500

(Ref. fig.15)

SR. NO.	COMPONENT	QTY.	A105 + TRIM 8	F11 + TRIM 8	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. CA-15	ASTM A217 Gr. CA-15	ASTM A351 Gr. CF8M + HF
4	SEAT RING (Integral)	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	1 SET	DIE MOULDED GRAPHITE RINGS + (2 NOS. BRAIDED GRAPHITE RINGS REINFORCED WITH INCONEL WIRE.)		
9	GASKET	01	SPW, SS 304 + GRAPHITE	SPW, SS 304 + GRAPHITE	SPW, SS 316 + GRAPHITE
10	YOKE BUSH	01	ASTM A582 TP. 416	ASTM A582 TP. 416	ASTM A582 TP. 416
11	HANDWHEEL	01	SG IRON.	SG IRON.	SG IRON.
12	HANDWHEEL NUT	01	CARBON STEEL	CARBON STEEL	CARBON STEEL
13	EYE BOLT	02	ASTM A307 Gr. B	ASTM A307 Gr. B	ASTM A307 Gr. B
14	NUT	02	ASTM A563 Gr. A	ASTM A563 Gr. A	ASTM A563 Gr. A
15	HEX BOLTS (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
16	NAME PLATE	01 SET	ALUMINIUM	ALUMINIUM	ALUMINIUM

HF - HARD FACING, SPW - SPIRAL WOUND



FORGED STEEL GLOBE VALVES

(Ref. fig. 16)

SIZE		# 800					# 1500 / # 2500						
		L	H	ØA	ØB	ØK	Wt.	L	H	ØA	ØB	ØK	Wt.
DN	NPS	SW				SW	SW						SW
15	1/2"	80	139	9	22.2	90	1.7	90	166	9	22.2	88	2.2
20	3/4"	85	152	12	27.6	90	2.2	110	210	12	27.6	97	3.8
25	1"	100	181	17.5	34	102	3.4	127	250	15	34	138	6.3
40	1 1/2"	150	208	29.5	48.8	140	7.8	180	300	27	48.8	172	13
50	2"	170	235	36	61.2	185	11.4	210	375	32	61.2	172	21.7

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

SW - SOCKET WELD

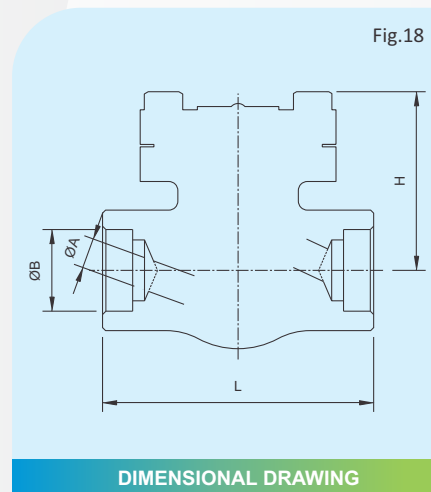
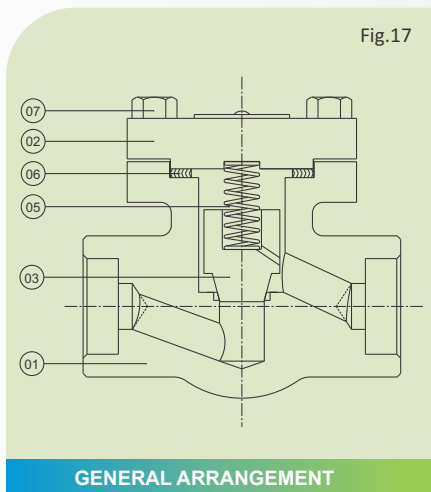
FORGED STEEL LIFT CHECK VALVES

LIFT CHECK VALVES - # 800 # 1500, AND # 2500

(Ref. fig.17)

SR. NO.	COMPONENT	QTY.	A105 + TRIM 8	F11 + TRIM 8	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	ASTM A276 TP. 316
4	SEAT RING (Integral)	02	ASTM A105 + HF	ASTM A105 + HF	ASTM A182 Gr. F316 + HF
5	SPRINGS	01	ASTM A313 Gr. 302	ASTM A 182 Gr. F11 -Cl.2+HF	ASTM A313 Gr. 302
6	GASKET	01	SPW, SS 304 + GRAPHITE	SPW, SS 304 + GRAPHITE	SPW, SS 316 + GRAPHITE
7	HEX BOLTS (BODY TO BONNET)	AS REQ.	ASTM A193 Gr. B7	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
8	NAME PLATE AND RIVETS	01 SET	ALUMINIUM	ALUMINIUM	ALUMINIUM

HF - HARD FACING, SPW - SPIRAL WOUND



FORGED STEEL LIFT CHECK VALVES

(Ref. fig. 18)

SIZE		# 800					# 1500 / # 2500				
		L	H	ØA	ØB	Wt.	L	H	ØA	ØB	Wt.
DN	NPS	SW				SW	SW				SW
15	1/2"	80	52	9	22.2	1.12	90	60	9	22.2	1.5
20	3/4"	85	62	12	27.6	1.49	110	78	12	27.6	3
25	1"	100	67	17.5	34	2.3	127	88	15	34	4.2
40	1 1/2"	150	83	29.5	48.8	5.5	180	108	27	48.8	9.9
50	2"	170	104	36	61.2	8.91	210	145	32	61.2	17.5

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

SW - SOCKET WELD





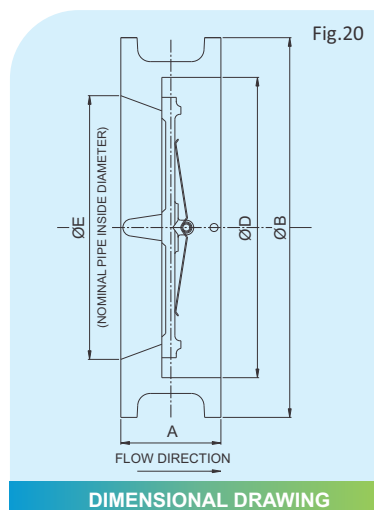
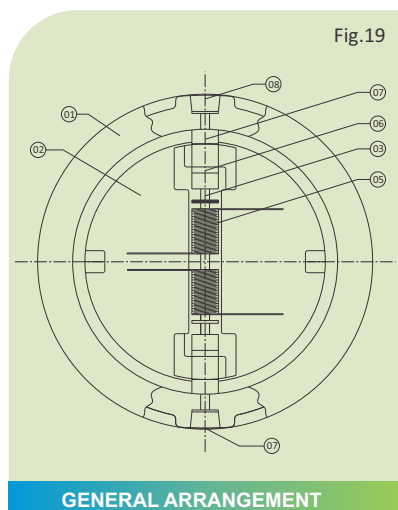
DUAL PLATE CHECK VALVES

CHECK VALVES - DUAL PLATE - # 150 THROUGH # 600

(Ref. fig.19)

SR. NO.	COMPONENT	QTY.	MATERIAL		
			WCB + HF	WC6 + HF	CF8M + HF
1	BODY	01	ASTM A216 Gr. WCB+HF	ASTM A217 Gr. WC6+HF	ASTM A351 Gr. CF8M+HF
2	CLOSURE PLATE	01	ASTM A216 Gr. WCB+13%Cr	ASTM A217 Gr. WC6+13% Cr	ASTM A351 Gr. CF8M+HF
3	HINGE PIN	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 A 276 TP. 316
4	STOP PIN	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
5	SPRING	2	INCONEL 750	INCONEL 750	INCONEL 750
6	PLATE LUG BEARINGS	02	ASTM A276 TP. 410 / 420	ASTM A276 TP. 410 / 420	ASTM A276 TP. 316
8	STOP PIN RETAINERS	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316
9	HINGE PIN RETAINERS	01	ASTM A276 TP. 410	ASTM A276 TP. 410	ASTM A276 TP. 316

Legends : -HF = Hardfaced with St-6; Cr. - Chromium; Gr. - Grade; TP - Type.



- **PRESSURE RATING - # 150 THROUGH # 600**
- **SIZE – 2” TO 24”**
- **MFG STANDARD – API 6D**
- **TESTING STANDARD – API 6D**
- **END DETAILS – WAFER END TO SUIT ASME B 16.5 FLANGES**
- **END TO END DIMENSIONS – API 6D**

CAST STEEL DUAL-PLATE CHECK VALVES

(Ref. fig.20)

SIZE		# 150					# 300					# 600				
		DIMENSIONS (mm)				Wt. (kg)	DIMENSIONS (mm)				Wt. (kg)	DIMENSIONS (mm)				Wt. (kg)
DN	NPS	A	ØB	ØE	ØD		A	ØB	ØE	ØD		A	ØB	ØE	ØD	
2"	50	60	104	51	60	3	60	111	51	64	3	60	111	61	64	3
2 1/2"	65	67	123	60	73	5	67	129	60	73	6	67	-	-	-	-
3"	80	73	136	74	73	5	73	149	74	94	6	73	148	74	94	6
4"	100	73	174	97	114	8	73	180	97	118	8	79	194	97	118	11
5"	125	86	196	122	141	13	88	215	122	141	13	-	-	-	-	-
6"	150	98	221	146	188	14	98	260	146	172	18	137	267	148	168	31
8"	200	127	278	194	219	26	127	308	194	222	31	165	321	194	219	53
10"	250	146	339	243	273	45	146	360	243	275	50	213	400	243	273	95
12"	300	181	408	259	324	64	181	421	259	328	77	229	457	289	324	136
14"	350	184	449	318	356	77	184	484	318	358	132	273	492	316	356	195
16"	400	197	511	381	406	104	197	538	381	408	181	305	585	364	406	295
18"	450	203	549	429	457	123	203	597	429	457	236	362	613	410	457	386
20"	500	219	606	478	608	163	219	654	478	508	318	368	683	456	508	510
24"	600	222	718	575	610	216	222	775	575	610	476	438	791	548	610	794

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

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 (NOT FOR API)	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
5	A 351 Gr.CF8M / F316	Trim 10
6	A 351 CF3 / F 304L	Trim 15
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



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
702	Q3	3	FF	CC	02	01	01	01	01	01
703	01	04	RS	C6	03	02	02	02	02	02
704	1Q	06	S3	C9	04	03	03	03	03	03
	1H	08	S6	F8	05	04	04	04		
801	02	09	ST	C5	5A	05	05	05		
802	2H	A	01	8M	06	06	06	06		
803	03	B	02	LB	07	07				
804	04	C	03	C3	08	08				
	05	D	04	LC	8A	09				
901	-	E	06	01	09	10				
902	-	F	08	02	10	11				
903	22	G	12	C2	--	12				
904	24	H	16	CA	18	13				

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

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)

PRESSURE RATING

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

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)

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

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

OPERATOR & ACCESSORIES

00	NONE
HW	HANDWHEEL
HL	HAND LEVER
BS	BARE STEM
01	HANDWHEEL+PI
02	HANDWHEEL+LO
03	HANDWHEEL+PI+LO
04	HAND LEVER+PI
05	HAND LEVER+LO
06	HAND LEVER+PI+LO
HA	HYDRAULIC ACTUATOR
PA	PNEUMATIC ACTUATOR
PS	PNEUMATIC CYLINDER

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

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

TESTING REQUIREMENT

00	NONE
01	STANDARD TESTING

VALVE AUTOMATION



*To know more about IPC Valve Automation Solutions, please ask for the automation catalogue.



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