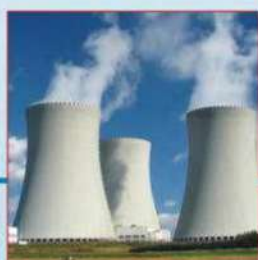




FLOWMAX VALVES

**TRUSTED
FLOW CONTROL
SOLUTIONS**



www.flowmaxvalves.com



Company Overview

FLOWMAX VALVES is a professional valve manufacturing and trading combo specializing in R & D, manufacturing and exporting superior industrial valves. Our valves are manufactured according to ANSI, API, DIN, BS and JIS standards. All of them are made under ISO 9001:2015, and certified processes. We have also got the approvals of CE/PED, API-6D and OHSAS certifications.

The enterprise is orientated towards clients' satisfaction; in this way, it adapts its valves to your requirements and delivers them in deadlines rigorously established. The technical and human staff, highly qualified, works every day in order to offer you the most innovative solutions and to strengthen the commitment with the customers.



Our Mission

our mission is to be globally competitive in a highly volatile market. We aim to be the go-to global industrial valve supplier, particularly for valves used in critical industries. We can achieve this through intensive research and development. We understand that this endeavor is a continuous one. Also, by being innovative, we can provide better products to our customers. We are employing modern technology to aid our technicians and staff to further enhance our customer service. Furthermore, we aim to provide top of the line value by emphasizing safety and quality assurance of our products.



Quality Assurance

We understand that part of being globally competitive is to provide continuous quality control and supervision. Our supervisors and managers are always on the lookout for minor glitches so that our level of quality is maintained from start to finish. Our on-site plant is equipped with testing machines that will ensure that each valve we release is the best.

- ▶ **PMI Testing**
- ▶ **Material Testing Machine**
- ▶ **Thickness Gauge Machine**
- ▶ **Impact Testing Machine**
- ▶ **Magnetic Particles Machine**
- ▶ **Hardness Tester**
- ▶ **NDT Test Equipment**
- ▶ **Tensile Testing Machine**

Industries that we serve

As a top valve factory in India, **FLOWMAX** has been serving various market sectors where pipes and valves play an integral role. These industries demand high-quality valves which, in turn, increases the productivity of their industrial plants.

- ▶ **Natural Gas Extraction & Processing Industry**
- ▶ **Petroleum Refinery Industry**
- ▶ **Chemical Refinery Industry**
- ▶ **Marine Plumbing Industry**
- ▶ **Power Generation Industry**
- ▶ **Pipeline Transportation Industry**

Safety Valve - Series SVT 20

IBR/NON IBR



DESIGN FEATURES

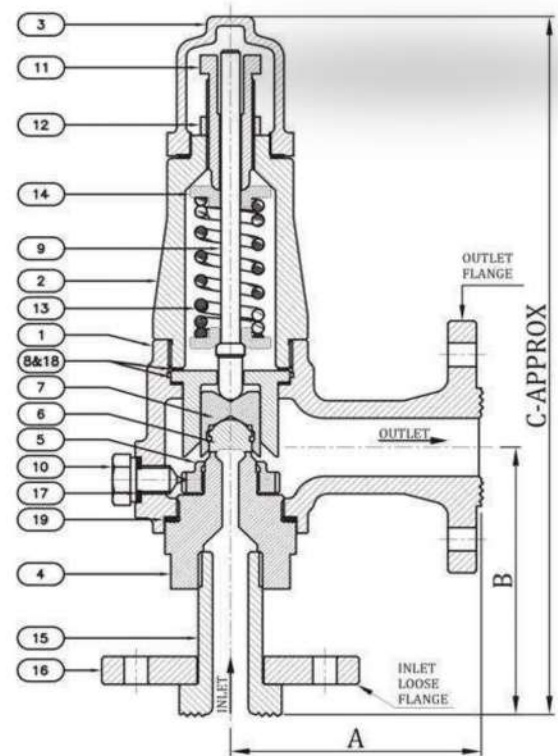
- Replaceable all parts & easy maintenance.
- Seat has metal & soft seating arrangement.
- Pressure limits as per your requirements.
- Hard face for high pressure & high temperature.
- Material of construction make in well quality investment casting.
- Spring gives high quality, well design & well performance.
- Trims make by certified bar stock.
- (Forged trims also available as per requirement).

TECHNICAL FEATURES

- Size - 15mm x 25mm (1/2" x 1") to 50mm x 50mm (2" x 2").
- Flange standards as per ASME B 16.5.
- Pressure Rating 150,300,600,900,1500 & 2500 Class

MATERIAL LIST

No.	Part Name	Type of Material
1	Body	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
2	Bonnet	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
3	Cap	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
4	Nozzle	SS410/304/304L/316/316L
5	Nozzle Ring	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
6	Disc	SS410/304/304L/316/316L
7	Disc Guide	SS410/304/304L/316/316L
8	Disc Holder	SS410/304/304L/316/316L
9	Stem	SS 410/304/304L/316/316L
10	Lock Screw	SS 410/304/304L/316/316L
11	Adjusting Screw	SS 410/304/304L/316/316L
12	Adjusting Screw Nut	SS 410/304/304L/316/316L
13	Setting Spring	SP. Steel/CS/SS/Alloy Steel
14	Spring Washer	M.S./SS 410/304/304L/316/316L
15	Collar	SS 410/304/304L/316/316L
16	Loose Flange	SS 410/304/304L/316/316L
17	Gasket (Lock Screw)	CAF/GRAPHITE/PTFE
18	Gasket (Guide)	CAF/GRAPHITE/PTFE
19	Gasket (Nozzle)	CAF/GRAPHITE/PTFE



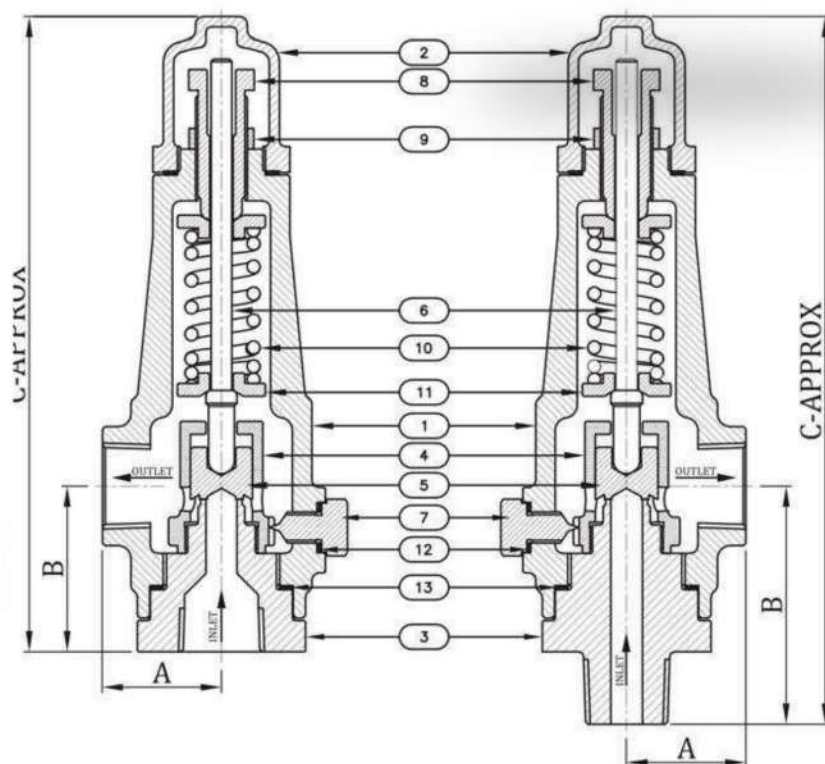
DIMENSIONS & TECHNICAL DETAILS

Valve Size Inlet x Outlet	A ± 3.0	B ± 3.0	C ± 3.0	(Approx) Weight (kg)
15 x 25	105	116	300	7.5
20 x 25	105	116	300	7.5
25 x 25	105	116	300	7.5
25 x 40	105	116	300	9
40 x 50	110	130	366	16
50 x 50	110	130	366	16

All dimensions are in mm.

Safety Valve - Series SVT 22

IBR/NON IBR



DESIGN FEATURES

- Replaceable all parts & easy maintenance.
- Seat has metal & soft seating arrangement.
- Pressure limits as per your requirements.
- Hard face for high pressure & high temperature.
- Material of construction make in well quality investment casting.
- Spring gives high quality, well design & well performance.
- Trims make by certified bar stock.
(Forged trims also available as per requirement).

TECHNICAL FEATURES

- Size 15mm x 25mm (1/2" x 1") to 50mm x 50mm (2" x 2")
- Threaded (screwed) end connection as per ASME B1.20.1
- End connection as per your requirement like BSP, BSPT, NPT

DIMENSIONS & TECHNICAL DETAILS

Valve Size Inlet x Outlet	A ± 3.0	B ± 3.0	C ± 3.0	(Approx) Weight (kg)
15(F) x 25(F)	46	64	245	5
20(F) x 25(F)	46	64	245	5
25(F) x 25(F)	46	64	245	5
40(F) x 50(F)	67	87	312	8
50(F) x 50(F)	67	87	312	8

Valve Size Inlet x Outlet	A ± 3.0	B ± 3.0	C ± 3.0	(Approx) Weight (kg)
15(M) x 25(F)	46	92	273	6
20(M) x 25(F)	46	92	273	6
25(M) x 25(F)	46	92	273	6
40(M) x 50(F)	67	92	318	8.5
50(M) x 50(F)	67	92	318	8.5

All dimensions are in mm.

MATERIAL LIST

No.	Part Name	Type of Material
1	Body	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
2	Cap	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
3	Nozzle	SS410/304/304L/316/316L
4	Nozzle Ring	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
5	Disc	SS410/304/304L/316/316L
6	Stem	SS 410/304/304L/316/316L
7	Lock Screw	SS 410/304/304L/316/316L
8	Adjusting Screw	SS 410/304/304L/316/316L
9	Adjusting Screw Nut	SS 410/304/304L/316/316L
10	Setting Spring	SP. Steel/CS/SS/Alloy Steel
11	Spring Washer	M.S./SS 410/304/304L/316/316L
12	Gasket (Lock Screw)	CAF/GRAPHITE/PTFE
13	Gasket (Nozzle)	CAF/GRAPHITE/PTFE

Safety Valve - Series SV 40

IBR/NON IBR



DESIGN FEATURES

- Replaceable all parts & easy maintenance
- Seat has metal & soft seating arrangement.
- Pressure limits as per your requirements.
- Hard face for high pressure & high temperature.
- Material of construction make in quality casting also as per your requirements.
- Trims make by certified bar stock (forged) and quality casting also as per your requirements.
- High quality, well design well performance certified spring.

TECHNICAL FEATURES

- Size 25mm x 50mm (1" x 2") to 250mm x 350mm (10" x 14") also as per your requirements.
- Design as per standards API-520/API-526/API-527.
- Also applicable standard is ASME BPVC section VII division I.
- Standards as per ASME B 16.5 & ASME B 16.34.
- Pressure rating 150, 300, 600, 900, 1500, 2500, Table-H & Table-E class.

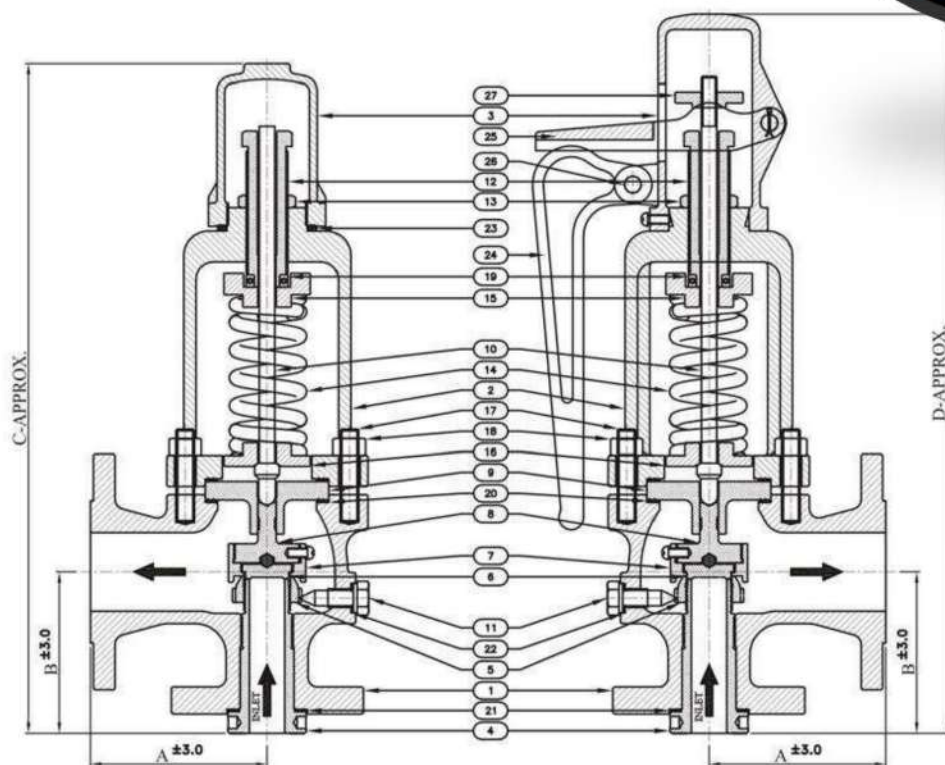
OTHER ARRANGEMENT

- Packed lever arrangement.
- Test gauge arrangement.
- Bellows arrangement. used for safety purpose to prevent back pressure.

DIMENSIONS & TECHNICAL DETAILS

Valve Size Inlet x Outlet	A ±3.0	B ±3.0	C ±3.0	D ±3.0	(Approx) Weight (kg)
25 x 50	115	105	430	460	20
40 x 50	120	124	460	490	23
40 x 80	124	130	530	490	30
50 x 80	124	133	540	575	36
80 x 100	162	155	590	620	50
100 x 150	229	181	830	900	149
150 x 200	240	240	990	1050	210
200 x 250	280	276	1400	1470	325
250 x 350	395	385	1600	1670	950

All dimensions are in mm.



MATERIAL LIST

No.	Part Name	Type of Material
1	Body	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
2	Bonnet (Open) Bonnet (Close)	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
3	Cap (Open) Cap (Close)	ASTM A 216 GR. WCB, ASTM A 351 GR. CF8/CF8M/CF3/CF3M
4	Nozzle	ASTM A 351 CA15/CF8/CF8M /CF3 /CF3M
5	Nozzle Ring	ASTM A 351 CA15/CF8/CF8M /CF3 /CF3M
6	Disc	SS410/304/304L/316/316L
7	Reaction Hood	ASTM A 351 CA15/CF8/CF8M /CF3 /CF3M
8	Disc Holder	ASTM A 351 CA15/CF8/CF8M /CF3 /CF3M
9	Guide	ASTM A 351 CA15/CF8/CF8M /CF3 /CF3M
10	Stem	SS 410/304/304L/316/316L
11	Lock Screw	SS 410/304/304L/316/316L
12	Adjusting Screw	SS 410/304/304L/316/316L
13	Adjusting Screw Nut	SS 410/304/304L/316/316L
14	Setting Spring	SPRING STEEL/STAINLESS STEEL/ALLOY STEEL
15	Upper Spring Washer	M.S./SS 410/304/304L/316/316L
16	Lower Spring Washer	M.S./SS 410/304/304L/316/316L
17	Studs	B7/B8/B8M/L7
18	Nuts	2H/8/8M/7
19	Thrust Bearing	AS PER STANDARD MFG.
20	Gasket (Body)	CAF/GRAPHITE/PTFE
21	Gasket (Nozzle)	CAF/GRAPHITE/PTFE
22	Gasket (Lock Screw)	CAF/GRAPHITE/PTFE
23	Gasket (Cap)	CAF/GRAPHITE/PTFE
24	Lever	ASTM A 216 GR. WCB, A 351 CF8, CF8M, SG IRON
25	Fork	ASTM A 216 GR. WCB, A 351 CF8, CF8M, SG IRON
26	Lever & Fork Pin	M.S./SS304/316
27	Stem Nut	M.S./SS304/316
28	Bellows (Your Req.)	SS304/304L/316/316L/INCONEL

Gate Valve

IBR/NON IBR



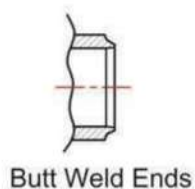
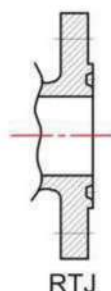
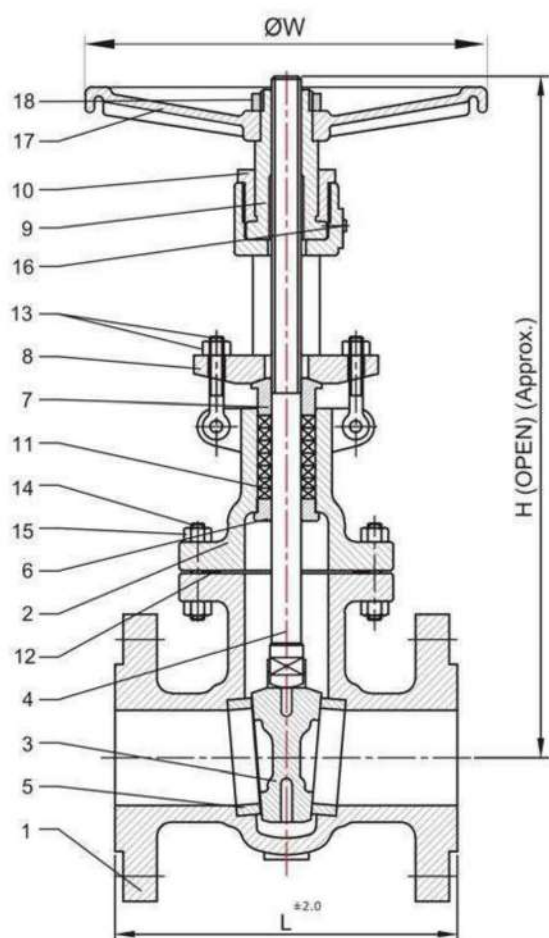
DESIGN FEATURES

Material	WCB / WC6 / LCB / CF8 / CF8M / CF3 / CF3M etc.
Pressure Rating	150# / 300# / 600# / 900# / 1500# / 2500#
Design Standard	API 600 / BS 1414 / ASME B16.34
Inspection & Test Standard	API 598 / BS EN 12266-I
End Connection	Flanged Ends / Butt Weld Ends / RTJ
Operation	Hand Wheel / Gear / Actuated (Pneumatic/Electric)
Size Range	2" to 24"
Trims Material	As per requirement
Optional	By pass arrangement / Floor stand / Extended stem



DIMENSIONS & TECHNICAL DETAILS

PARAMETERS	Class	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Face to Face (L)	150#	178	203	229	254	267	292	330	356	381	406	432	457	508
	300#	216	283	305	381	403	419	457	502	762	838	914	990	1143
	600#	292	356	432	508	559	660	787	838	889	991	1092	1194	1397
	900#	368	381	457	559	610	737	838	965	1029	1130	1219	1321	-
	1500#	368	470	546	673	705	832	991	1130	1257	1384	1537	1664	-
Height (H) (Approx.)	150#	375	470	570	705	790	990	1200	1400	1500	1740	1950	2150	2565
	300#	400	500	600	715	850	1025	1260	1450	1580	1790	2100	2250	2654
	600#	400	540	635	730	875	1040	1280	1470	1580	1905	2010	2275	3150
	900#	445	595	750	765	865	1225	1450	1625	1680	1925	2025	2310	-
	1500#	475	600	775	785	925	1250	1525	1725	1750	1950	2125	2310	-
Hand Wheel Dia. (ØW)	150#	200	230	250	280	300	350	450	450	500	500	600	600	686
	300#	200	230	250	300	350	400	450	500	500	600	680	680	762
	600#	200	250	305	400	450	450	500	600	600	760	760	760	762
	900#	300	300	400	450	300*	350*	400*	400*	450*	500*	500*	550*	-
	1500#	300	300*	400*	300*	350*	350*	400*	400*	450*	500*	550*	550*	-
Weight (Kgs) (Approx.)	150#	21	35	52	35	85	135	205	300	400	520	685	900	1410
	300#	25	50	75	50	155	230	350	490	745	950	1300	1640	2460
	600#	40	65	115	65	250	410	650	1100	1600	1950	2070	2150	3620
	900#	85	125	180	260	310	525	975	1450	1900	2555	3275	3900	-
	1500#	110	145	220	320	403	710	1350	2300	3100	3575	4585	5000	-



Actuated Operated

STANDARDS

Design Std.	API 600 / BS 1414
Face to Face	ANSI B16.10
End Connection	Flange Ends - ASME B 16.5 Butt Weld Ends - ASME B 16.25
Testing Standard	API 598 / BS EN 12266-Part-I

MATERIAL LIST

No.	Part Name	ASTM Specification (Specs - Grades/Types)
1	Body	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
2	Bonnet	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
3	Wedge	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
4	Stem	SS 410 / SS 304 / SS 304L / SS 316L
5	Seat Ring	SS 410 / SS 304 / SS 304L / SS 316L
6	Back Seat Bush	SS 410 / SS 304 / SS 304L / SS 316L
7	Gland	SS 410 / SS 304 / SS 304L / SS 316L
8	Gland Flange	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
9	Stem Nut	A439 Gr. D2 / Al Bronze
10	Lock Nut	Carbon Steel / SS 304
11	Gland Packing	Graphoil / Graphite Asbestos / PTFE
12	Bonnet Gasket	Spiral Wound SS 304 with Graphoil or Asbestos / Octagonal Ring
13	Gland Eye Bolt & Nut	Carbon Steel / Stainless Steel
14	Bonnet Stud	B7 / B7M / B8M / B8 / L7
15	Bonnet Nut	2H / 8 / 8M / 7
16	Grub Screw	Carbon Steel
17	Hand Wheel	Carbon Steel
18	Hand Wheel Nut	Carbon Steel

Pressure Seal Gate Valve

IBR/NON IBR



DESIGN FEATURES

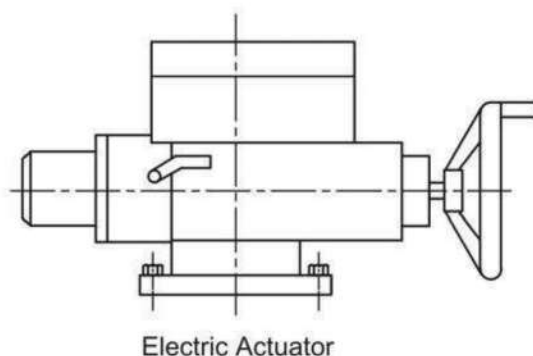
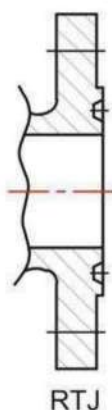
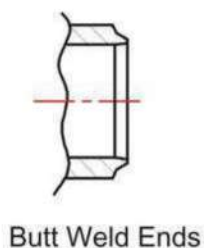
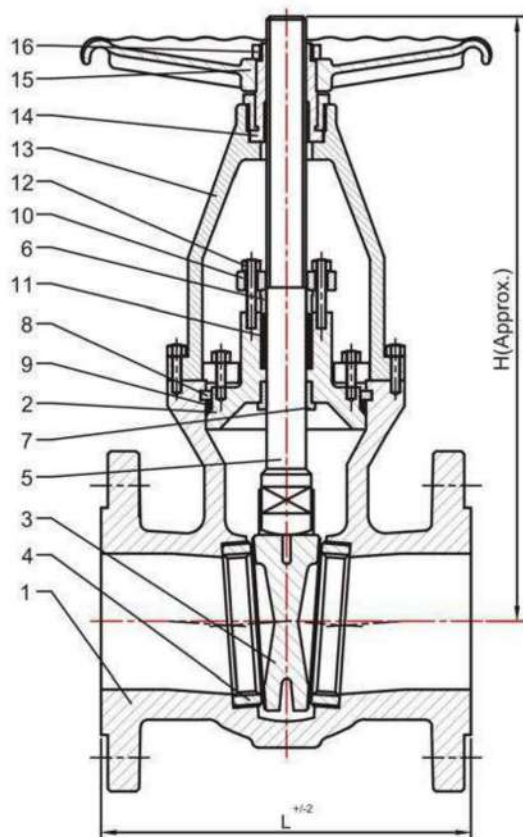
Material	WCB / WC6 / LCB / CF8 / CF8M / CF3 / CF3M etc.
Pressure Rating	900# / 1500# / 2500#
Design Standard	API 600 / ASME B 16.34
Inspection & Test Standard	API 598 / BS EN 12266-I
End Connection	Flanged Ends / Butt Weld Ends / RTJ
Operation	Hand Wheel / Gear / Actuated (Pneumatic/Electric)
Size Range	2" to 12"
Trims Material	As per requirement
Optional	By pass arrangement / Floor stand / Extended stem



DIMENSIONS & TECHNICAL DETAILS

PARAMETERS	Class	2"	3"	4"	5"	6"	8"	10"	12"
Face to Face FE (L)	900#	368	381	457	559	610	737	838	965
	1500#	368	470	546	673	705	832	991	1139
	2500#	451	578	673	794	914	1022	1270	1422
Face to Face BWE (L)	900#	216	305	356	432	508	660	787	914
	1500#	216	305	406	483	559	711	864	991
	2500#	279	368	457	533	610	762	914	1041
Height (H) (Approx.)	900#	480	585	710	758	865	1020	1370	1470
	1500#	500	600	725	800	890	1040	1388	1470
	2500#	560	620	750	850	910	1090	1400	1500
Weight (Kgs) (Approx.)	900#	75	96	136	225	275	490	825	1150
	1500#	95	125	205	256	330	655	1200	2010
	2500#	110	140	225	295	495	825	1480	2400

Weights and dimensions are for reference only.



STANDARDS

Design Std.	API 600 / ASME B 16.34
Face to Face	ANSI B16.10
End Connection	Flange Ends - ASME B 16.5 Butt Weld Ends - ASME B 16.25
Testing Standard	API 598 / BS EN 12266-Part-I

MATERIAL LIST

No.	Part Name	ASTM Specification (Specs - Grades/Types)
1	Body	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
2	Bonnet	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
3	Wedge	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
4	Seat Ring	F6a / A 105 / LF2 / SS 316 / SS 304
5	Stem	SS 410 / SS 304 / SS 304L / SS 316L
6	Gland	SS 410 / SS 304 / SS 304L / SS 316L
7	Back Seat Bush	SS 410 / SS 304 / SS 304L / SS 316L
8	Segment Rings	Graphite with Inconel Wire Reinforcement
9	Pressure Seal Gasket	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
10	Gland Flange	Die Moulded Grafoil Ring
11	Gland Packing	Carbon Steel / Stainless Steel
12	Gland Eye Bolt & Nut	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
13	Yoke	B7 / B7M / B8M / B8 / L7
14	Yoke Bush	A439 Gr. D2 / Al Bronze
15	Hand Wheel	Carbon Steel
16	Hand Wheel Nut	Carbon Steel

We also offer inconel 625, super duplex Gr. 5A & 6A, Nickle Al. Bronze MOC.



Globe Valve

IBR/NON IBR

DESIGN FEATURES

Material	WCB / WC6 / LCB / CF8 / CF8M / CF3 / CF3M etc.
Pressure Rating	150# / 300# / 600# / 900# / 1500# / 2500#
Design Standard	BS 1873 / ASME B16.34
Inspection & Test Standard	API 598 / BS EN 12266-I
End Connection	Flanged Ends / Butt Weld Ends / RTJ
Operation	Hand Wheel / Gear / Actuated (Pneumatic/Electric)
Size Range	2" to 20"
Trims Material	As per requirement
Optional	By pass arrangement / Floor stand / Extended stem

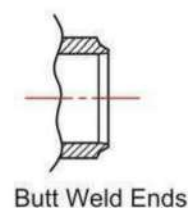
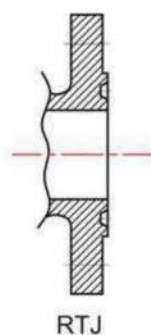
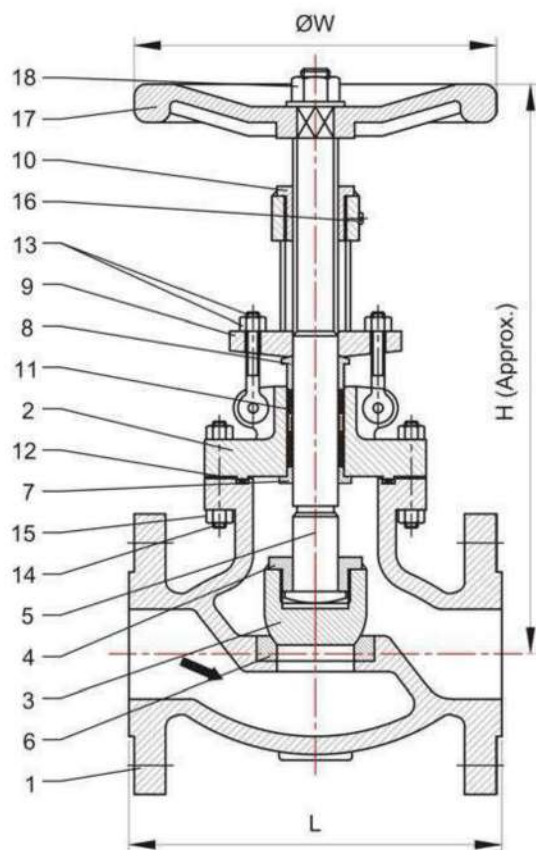


DIMENSIONS & TECHNICAL DETAILS

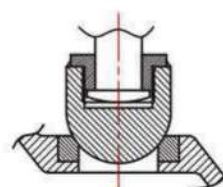
PARAMETERS	Class	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
Face to Face (L) FE	150#	203	241	292	356	406	495	622	699	787	914	978	978
	300#	267	318	355	400	444	558	622	711	762	838	914	990
	600#	292	355	431	508	558	660	787	838	889	991	1092	1194
	900#	368	381	457	559	610	737	838	965	1029	1130	1219	1321
	1500#	368	470	546	673	705	832	991	1130	1257	1384	1537	1664
Height (H) (Approx.)	150#	330	410	475	540	585	725	825	940	1200	1270	1300	1350
	300#	350	485	520	565	655	825	920	1155	1250	1295	1340	1385
	600#	420	550	590	620	700	950	1140	1320	1350	1350	1480	1500
	900#	495	600	655	670	780	1050	1300	1480	1510	1630	1700	1725
	1500#	550	625	750	810	925	1225	1450	1500	1620	1710	1760	1800
Hand Wheel Dia. (ØW)	150#	200	250	300	350	350	450	500	600	600	650	650	700
	300#	200	300	300	350	350	500	600	700	700	450*	500*	550*
	600#	250	300	350	500	500	600	600	400*	450*	500*	550*	550*
	900#	300	350	500	500	350*	350*	400*	400*	450*	500*	500*	550*
	1500#	300	400	450	500	600*	450*	500*	500*	550*	550*	600*	600*
Weight (Kgs) (Approx.)	150#	23	40	65	95	115	180	280	385	550	780	1050	1225
	300#	30	55	95	135	180	260	375	525	760	1135	1470	1680
	600#	40	72	132	210	245	460	700	1100	1600	1955	2075	2150
	900#	96	117	178	305	355	730	1050	1350	2170	2535	3930	5120
	1500#	116	145	210	395	475	925	1365	1950	-	-	-	-

Weights and dimensions are for reference only.

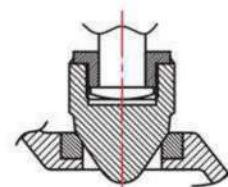
*Gear operation suggested.



Type of Plug



Ball Type Disc



Needle Type Disc

STANDARDS

Design Std.	BS 1873 / ASME B 16.34
Face to Face	ANSI B16.10
End Connection	Flange Ends - ASME B 16.5 Butt Weld Ends - ASME B 16.25
Testing Standard	API 598 / BS EN 12266-Part-I

MATERIAL LIST

No.	Part Name	ASTM Specification (Specs - Grades/Types)
1	Body	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
2	Cover	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
3	Disc / Plug	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
4	Disk Nut	SS 410 / SS 304 / SS 304L / SS 316L
5	Stem	SS 410 / SS 304 / SS 304L / SS 316L
6	Seat Ring	SS 410 / SS 304 / SS 304L / SS 316L
7	Back Seat Bush	SS 410 / SS 304 / SS 304L / SS 316L
8	Gland	SS 410 / SS 304 / SS 304L / SS 316L
9	Gland Flange	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
10	Stem Nut	A439 Gr. D2 / Al Bronze
11	Gland Packing	Graphoil / Graphite Asbestos / PTFE
12	Bonnet Gasket	Spiral Wound Graphoil + SS 316
13	Gland Eye Bolt & Nut	Carbon Steel / Stainless Steel
14	Bonnet Stud	B7 / B7M / B8M / B8 / L7
15	Bonnet Nut	2H / 8 / 8M / 7
16	Grud Screw	Carbon Steel
17	Hand Wheel	Carbon Steel
18	Hand Wheel Nut	Carbon Steel

We also offer inconel 625, super duplex Gr. 5A & 6A, Nickle Al. Bronze MOC.



Pressure Seal Globe Valve

IBR/NON IBR

DESIGN FEATURES

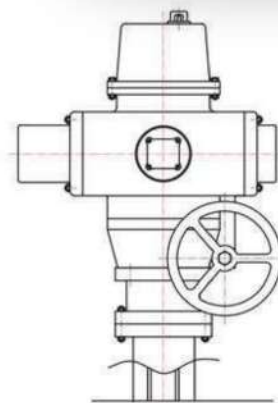
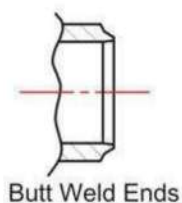
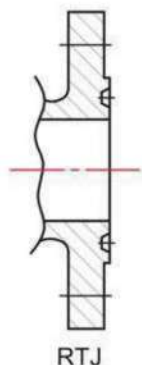
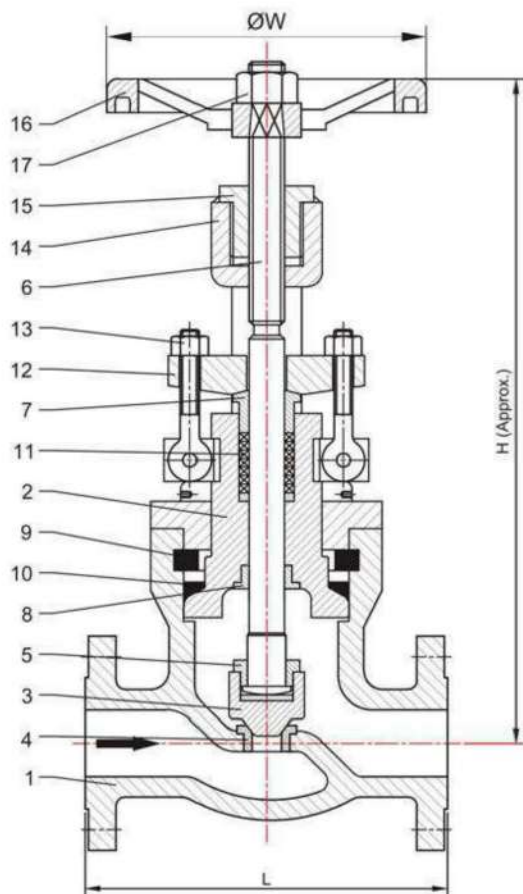
Material	WCB / WC6 / LCB / CF8 / CF8M / CF3 / CF3M etc.
Pressure Rating	900# / 1500# / 2500#
Design Standard	BS 1873 / ASME B16.34
Inspection & Test Standard	API 598 / BS EN 12266-I
End Connection	Flanged Ends / Butt Weld Ends / RTJ
Operation	Hand Wheel / Gear / Actuated (Pneumatic/Electric)
Size Range	2" to 12"
Trims Material	As per requirement
Optional	By pass arrangement / Floor stand / Extended stem



DIMENSIONS & TECHNICAL DETAILS

PARAMETERS	Class	2"	3"	4"	5"	6"	8"	10"	12"
Face to Face (L) FE & BWE	900#	368	381	457	559	610	737	838	965
	1500#	368	470	546	673	705	832	991	1130
	2500#	451	578	673	794	914	1022	1270	1422
Height (H) (Approx.)	900#	550	675	750	815	1085	1300	1420	1825
	1500#	565	680	800	825	1130	1450	1535	1600
	2500#	575	725	835	875	1200	1510	1720	2100
Weight (Kgs) (Approx.) FE	900#	75	105	135	255	360	620	950	1200
	1500#	80	125	215	300	520	650	1150	2500
	2500#	95	125	210	565	620	1050	1525	3330
Weight (Kgs) (Approx.) BWE	900#	45	48	100	270	270	450	738	1045
	1500#	55	85	160	300	378	635	1180	1850
	2500#	80	120	150	470	470	770	1330	1920

Weights and dimensions are for reference only.



Electric Actuator

STANDARDS

Design Std.	BS 1873 / ASME B 16.34
Face to Face	ANSI B16.10
End Connection	Flange Ends - ASME B 16.5 Butt Weld Ends - ASME B 16.25
Testing Standard	API 598 / BS EN 12266-Part-I

MATERIAL LIST

No.	Part Name	ASTM Specification (Specs - Grades/Types)
1	Body	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
2	Bonnet	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
3	Disc	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
4	Seat ring	F6a / A 105 / LF2 / SS 316 / SS 304
5	Disc Nut	SS 410 / SS 304 / SS 304L / SS 316L
6	Stem	SS 410 / SS 304 / SS 304L / SS 316L
7	Gland	SS 410 / SS 304 / SS 304L / SS 316L
8	Back Seat Bush	SS 410 / SS 304 / SS 304L / SS 316L
9	Support Ring	SS 410 / SS 304 / SS 304L / SS 316L
10	Pressure Seal Gasket	Graphite with Inconel Wire Reinforcement
11	Gland Packing	Die Moulded Grafoil Ring
12	Gland Flange	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
13	Gland Eye Bolt & Nut	Carbon Steel / Stainless Steel
14	Yoke	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
15	Yoke Bush	A439 Gr. D2 / Al Bronze
16	Hand Wheel	Carbon Steel / M. I.
17	Hand Wheel Nut	Carbon Steel

We also offer inconel 625, super duplex Gr. 5A & 6A, Nickle Al. Bronze MOC.

Check Valve

IBR/NON IBR



DESIGN FEATURES

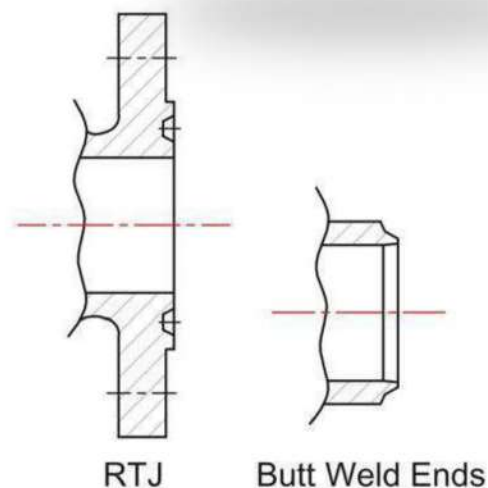
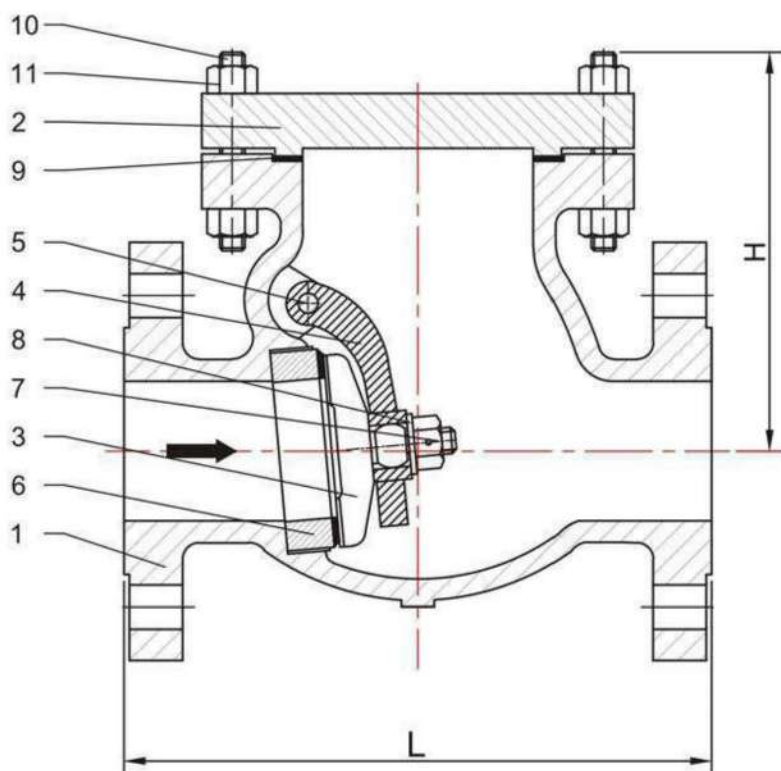
Material	WCB / WC6 / LCB / CF8 / CF8M / CF3 / CF3M etc.
Pressure Rating	150# / 300# / 600# / 900# / 1500# / 2500#
Design Standard	BS 1868 / ASME B16.34 / API 6D
Inspection & Test Standard	API 598 / API 6D / BS EN 12266-I
End Connection	Flanged Ends / Butt Weld Ends / RTJ
Size Range	2" to 20"
Trims Material	As per requirement
Optional	By pass arrangement / Floor stand



DIMENSIONS & TECHNICAL DETAILS

PARAMETERS	Class	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
Face to Face (L)	150#	203	241	292	356	406	495	622	698	787	914	978	978
	300#	267	318	355	400	444	533	622	711	838	864	978	1016
	600#	292	355	431	508	558	660	787	838	889	991	1092	1194
	900#	368	381	457	559	610	737	838	965	1029	1130	1219	1321
	1500#	368	470	546	673	705	832	991	1130	1257	1384	1537	1664
Height (H) (Approx.)	150#	155	200	225	245	260	305	390	410	435	530	570	625
	300#	180	225	240	275	310	370	410	440	500	545	605	675
	600#	190	250	260	310	350	420	490	525	580	630	690	810
	900#	195	260	275	320	370	435	520	530	580	660	782	935
	1500#	220	290	310	350	410	485	530	590	620	790	950	1150
Weight (Kgs) (Approx.)	150#	15	33	45	77	90	118	220	340	470	575	790	920
	300#	28	55	72	108	158	232	350	449	645	800	972	1352
	600#	33	55	90	120	210	320	550	790	950	1240	1814	2267
	900#	55	90	135	165	295	525	900	1075	1225	1425	1900	2510
	1500#	70	115	175	180	370	680	1050	1180	1325	1530	2040	2670

Weights and dimensions are for reference only.



STANDARDS

Design Std.	ASME B16.34 / API 6D
Face to Face	ANSI B16.10
End Connection	Flange Ends - ASME B 16.5 Butt Weld Ends - ASME B 16.25
Testing Standard	API 598 / BS EN 12266-Part-I

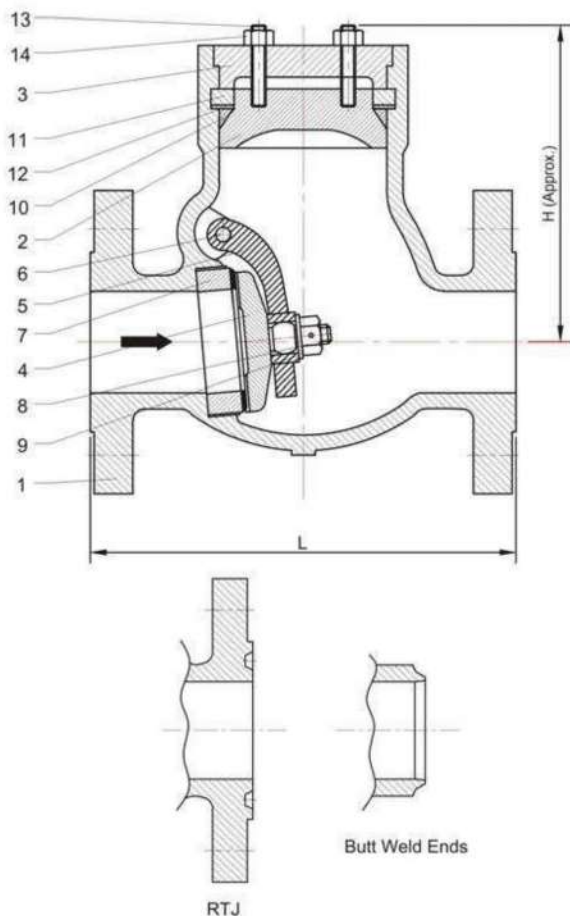
MATERIAL LIST

No.	Part Name	ASTM Specification (Specs - Grades/Types)
1	Body	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
2	Cover	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
3	Disc	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
4	Hing	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
5	Hing Pin	SS 410 / SS 304 / SS 304L / SS 316L
6	Seat Ring	F6a / A 105 / LF2 / SS 316 / SS 304 / F51
7	Disc Nut	Carbon Steel / Stainless Steel
8	Washer	Carbon Steel / Stainless Steel
9	Gasket	Spiral Wound SS 316 + Graphoil
10	Cover Stud	B7 / B7M / B8M / B8 / L7
11	Cover Nut	2H / 8 / 8M / 7

We also offer inconel 625, super duplex Gr. 5A & 6A, Nickle Al. Bronze MOC.

Pressure Seal Check Valve

IBR/NON IBR



DESIGN FEATURES

Material	WCB / WC6 / LCB / CF8 / CF8M / CF3 / CF3M etc.
Pressure Rating	900# / 1500# / 2500#
Design Standard	BS 1868 / API 6D
Inspection & Test Standard	API 598 / BS EN 12266-I
End Connection	Flanged Ends / Butt Weld Ends / RTJ
Size Range	2" to 12"
Trims Material	As per requirement
Optional	By pass arrangement / Floor stand

STANDARDS

Design Std.	BS 1868 / API 6D
Face to Face	ASME B16.10
End Connection	Flange Ends - ASME B 16.5 Butt Weld Ends - ASME B 16.25
Testing Standard	API 598 / BS EN 12266-Part-I



DIMENSIONS & TECHNICAL DETAILS

PARAMETERS	Class	2"	3"	4"	5"	6"	8"	10"	12"
Face to face (L) FE (mm)	900#	368	381	457	559	610	737	838	965
	1500#	368	470	546	673	705	832	991	1130
	2500#	451	578	673	794	914	1022	1270	1422
Face to face (L) BWE	900#	368	381	457	559	610	737	838	965
	1500#	368	470	546	673	705	832	991	1130
	2500#	451	578	673	794	914	1022	1270	1422
Height (H) (approx.)	900#	250	290	335	380	440	510	570	620
	1500#	265	310	345	385	460	515	590	645
	2500#	280	325	370	425	500	525	630	965
Weight (Kgs) (approx.)	900#	44	75	105	140	230	440	590	870
	1500#	65	80	125	160	300	525	960	1130
	2500#	78	110	205	395	500	900	1302	1950

Weights and dimensions are for reference only.

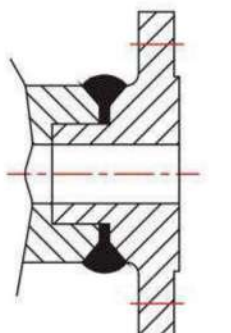
MATERIAL LIST

No.	Part Name	ASTM Specification (Specs - Grades/Types)
1	Body	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
2	Bonnet	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
3	Cover	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
4	Disc	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
5	Hing	WCB / WC6 / WC9 / CF8 / CF8M / CF3 / CF3M / LCB
6	Hing Pin	SS 410 / SS 304 / SS 304L / SS 316L
7	Seat Ring	F6a / A 105 / LF2 / SS 316 / SS 304
8	Disc Nut	Carbon Steel / Stainless Steel
9	Washer	Carbon Steel / Stainless Steel
10	Gasket	Spiral Wound SS 316 + Graphoil
11	Back Up Ring	WCB / CF8 / CF8M
12	Thrust Ring	WCB / CF8 / CF8M
13	Cover Stud	B7 / B7M / B8M / B7
14	Cover Nut	2H / 8 / 8M / 7

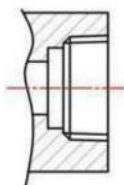
We also offer inconel 625, super duplex Gr. 5A & 6A, Nickle Al. Bronze MOC.
Lifting huck for size 8" & above. Support legs for size 12" & above.

Forged Gate Valve

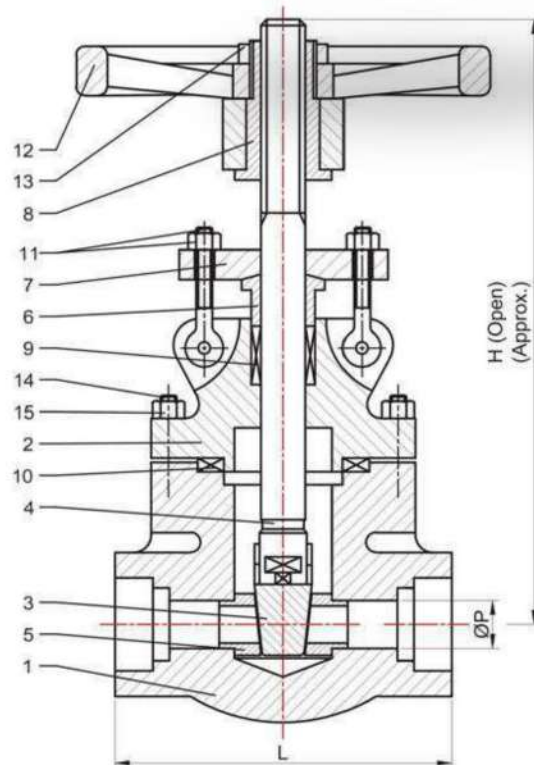
IBR/NON IBR



Welded Flange Ends



Screwed Ends



Socket Weld Ends

DESIGN FEATURES

Material	A105 / F11 / F22 / F304 / F316 / F51 / LF2
Pressure Rating	800# / 1500# / 2500#
Design Standard	API 602 / ASME B 16.34
Inspection & Test Standard	API 598 / BS EN 12266-I
End Connection	Screwed / Socketweld / Flanged
Size Range	½" to 2"
Trims Material	As per requirement
Optional	Full Port / Reduce Port / Integral Flange / Welded Flange

STANDARDS

Design Std.	ASME B 16.34 / API 602
End Connection	Flange Ends - ASME B 16.5 Socket Weld Ends - ASME B 16.11 Screwed Ends - ASME B 1.20.1
Testing Standard	API 598 / BS EN 12266-Part-I

DIMENSIONS & TECHNICAL DETAILS

Parameters	Class	½"	¾"	1"	1 ¼"	1 ½"	2"
Face to Face (L)	800#	87	92	106	127	127	135
	1500#	92	106	127	135	135	-
	2500#	106	127	135	-	-	-
Port Dia. (ØP)	800#	9	12	17.5	22.5	29.5	35
	1500#	9	12	17.5	22.5	29.5	-
	2500#	9	12	17.5	-	-	-
Height (H) (Approx.)	800#	151	157	186	237	237	278
	1500#	157	186	237	278	278	-
	2500#	186	237	278	-	-	-
Weight (Kg) (Approx.)	800#	1.4	1.6	2.8	5.7	5.8	10.5
	1500#	1.8	3	6.3	6.5	11.5	-
	2500#	3.3	6.8	12.6	-	-	-

Weights and dimensions are for reference only.

MATERIAL LIST

No.	Part Name	ASTM Specification (Specs - Grades/Types)
1	Body	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
2	Bonnet	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
3	Wedge*	SS 410 / SS 316 / SS 304
4	Stem	SS 410 / SS 316 / SS 304
5	Seat Ring*	F6a / A 105 / LF2 / SS 316 / SS 304
6	Gland	SS 410 / SS 316 / SS 304
7	Gland Flange	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
8	Yoke Sleeve	ASTM A 439 Gr. D2 / Al. Bronze
9	Gland Packing	PTFE / Grafoil / Graphited Asbestos
10	Bonnet Gasket	Spiral Wound SS 304 / 316 with Asbestos / Teflon or Grafoil
11	Gland Eye Bolt & Nut	SS 410 / SS 304
12	Hand Wheel	Carbon Steel / M. I.
13	Hand Wheel Nut	Carbon Steel
14	Stud	B7 / B8 / B8m / L7
15	Nut	2H / 8 / 8m / 7

Wedge and seat ring will be overlaid with Stellite 6 as per customer specification.

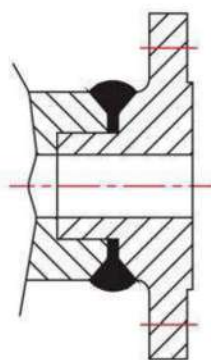
Forged Globe Valve

IBR/NON IBR

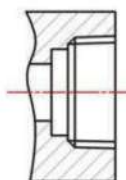


DESIGN FEATURES

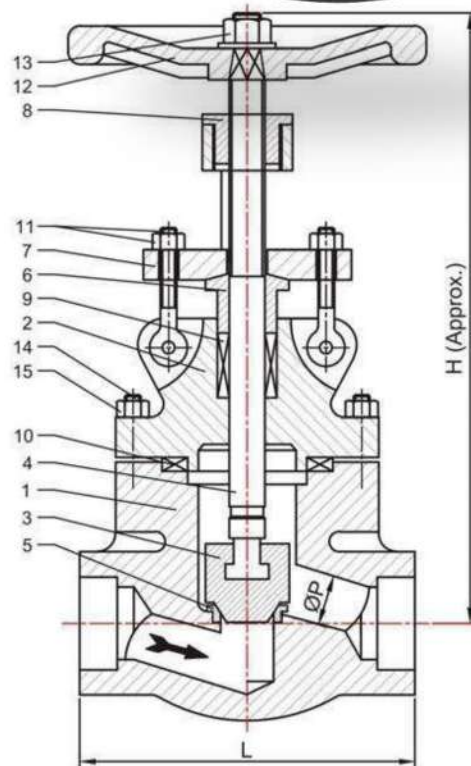
Material	A105 / F11 / F22 / F304 / F316 / F51 / LF2
Pressure Rating	800# / 1500# / 2500#
Design Standard	API 602 / ASME B 16.34
Inspection & Test Standard	API 598 / BS EN 12266-I
End Connection	Screwed / Socketweld / Flanged
Size Range	1/2" to 2"
Trims Material	As per requirement
Optional	Full Port / Reduce Port / Integral Flange / Welded Flange / Y Type Design



Welded Flange Ends



Screwed Ends



Socket Weld Ends

STANDARDS

Design Std.	ASME B 16.34 / API 602
End Connection	Flange Ends - ASME B 16.5 Socket Weld Ends - ASME B 16.11 Screwed Ends - ASME B 1.20.1
Testing Standard	API 598 / BS EN 12266-Part-I

DIMENSIONS & TECHNICAL DETAILS

Parameters	Class	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Face to Face (L)	800#	87	92	106	127	127	135
	1500#	92	106	127	135	135	-
	2500#	106	127	135	-	-	-
Port Dia. (ØP)	800#	9.5	12.7	17.5	23.8	28.6	29.5
	1500#	8	9	14	20	25	-
	2500#	7	12.5	15.5	-	-	-
Height (H) (Approx.)	800#	170	175	190	250	250	285
	1500#	175	190	250	250	255	-
	2500#	190	250	255	-	-	-
Weight (Kg) (Approx.)	800#	2	3	4	8	8	11
	1500#	3	4	8	8	11	-
	2500#	4.5	7.7	9	-	-	-

Weights and dimensions are for reference only.

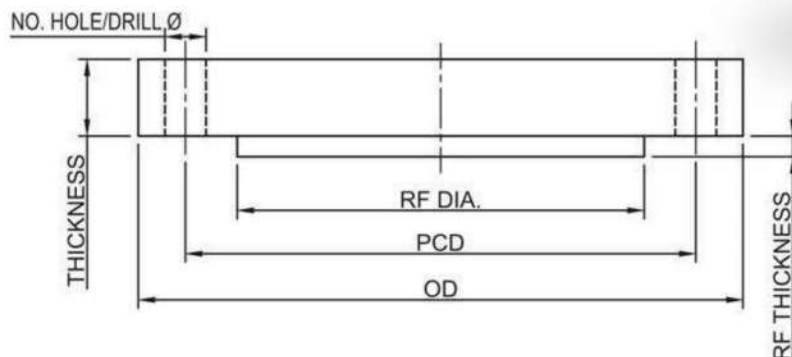
MATERIAL LIST

No.	Part Name	ASTM Specification (Specs - Grades/Types)
1	Body	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
2	Bonnet	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
3	Disc*	F6a / A 105 / LF2 / SS 316 / SS 304
4	Stem	SS 410 / SS 316 / SS 304
5	Seat Ring*	F6a / A 105 / LF2 / SS 316 / SS 304
6	Gland	A 105 / F 304 / F 304L / F 316 / F 316L / F11 / F22 / LF2
7	Gland Flange	ASTM A 439 Gr. D2 / Al. Bronze
8	Stem Nut	PTFE / Grafoil / Graphited Asbestos
9	Gland Packing	Spiral Wound SS 304 / 316 with Asbestos / Teflon or Grafoil
10	Bonnet Gasket	SS 410 / SS 304
11	Gland Eye Bolt & Nut	Carbon Steel
12	Hand Wheel	Carbon Steel
13	Hand Wheel Nut	B7 / B8 / B8m / L7
14	Stud	2H / 8 / 8m / 7
15	Nut	

* Disc and seat ring will be overlayed with stellite 6 as per customer specification.



Side Flange Details



SLIDE FLANGE DETAILS - ASME B16.5

PARAMETERS	Class	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
OD (mm)	150#	150	190	230	254	280	345	405	485	535	595	635	700	815
	300#	165	210	255	280	320	380	445	520	585	650	710	775	915
	600#	165	210	275	330	355	420	510	560	605	685	745	815	940
	900#	115	240	290	350	380	470	545	610	640	705	785	855	1040
	1500#	215	265	310	375	395	485	585	675	750	825	915	985	1170
	2500#	235	305	355	420	485	550	675	760	-	-	-	-	-
Thickness (mm)	150#	14.4	17.5	22.3	22.3	23.9	27	28.6	30.2	33.4	35	38.1	41.3	46.1
	300#	20.7	27	30.2	33.4	35	39.7	46.1	49.3	52.4	55.6	58.8	62	68.3
	600#	25.4	31.8	38.1	44.5	47.7	55.6	63.5	66.7	69.9	76.2	82.6	88.9	101.6
	900#	38.1	38.1	44.5	50.8	55.6	63.5	69.9	79.4	85.8	88.9	101.6	108	139.7
	1500#	38.1	47.7	54	73.1	82.6	92.1	108	123.9	133.4	146.1	162	177.8	203.2
	2500#	50.9	66.7	76.2	92.1	108	127	165.1	184.2	-	-	-	-	-
PCD (mm)	150#	120.7	152.4	190.4	215.9	241.3	298.5	362	431.8	476.3	539.8	577.9	635	749.3
	300#	127	168.3	200	235	269.9	330.2	387.3	450.8	514.4	571.5	628.6	685.8	812.8
	600#	127	168.3	215.9	266.7	292.1	349.2	431.8	479	527	603.2	654	723.9	838.2
	900#	165.1	190.5	235	279.4	317.5	393.7	490.9	533.4	558.8	616	685.8	749.3	901.7
	1500#	165.1	203.2	241.3	292.1	317.5	393.7	482.6	571.5	635	704.8	774.7	831.8	990.6
	2500#	171.4	228.6	273	323.8	368.3	438.2	539.8	619.1	-	-	-	-	-
No. of Hole/ Drill Ø	150#	4/19.5	4/19.5	8/19.5	8/32.80	8/22.22	8/22.22	12/25.40	12/25.40	12/28.40	16/28.40	16/31.70	20/31.70	20/35.00
	300#	8/19.5	8/22.22	8/22.22	8/22.22	12/22.22	12/25.40	16/28.50	16/31.75	20/31.75	20/34.90	24/34.90	24/34.90	24/41.30
	600#	8/19.5	8/22.22	8/25.40	8/28.40	12/28.6	12/31.75	16/35.05	20/35.05	20/38.10	20/41.10	20/44.40	24/44.40	24/50.80
	900#	8/25.40	8/25.40	8/31.7	8/34.80	12/31.7	12/38.10	16/38.10	20/38.10	20/41.10	20/44.40	20/50.80	20/54.00	20/66.50
	1500#	8/25.40	8/31.70	8/34.90	8/41.10	12/38.1	12/44.40	12/50.80	16/53.80	16/60.10	16/66.5	16/72.80	16/79.20	16/92
	2500#	8/28.6	8/34.90	8/41.3	8/47.62	8/54	12/54	12/66.7	12/73	-	-	-	-	-
RF Dia (mm)	150#	92.1	127	157.2	185.6	215.9	269.9	323.8	381	412.8	469.9	533.4	584.2	692.2
	300#	92.1	127	157.2	185.6	215.9	269.9	323.8	381	412.8	469.9	533.4	584.2	692.2
	600#	92.1	127	157.2	185.6	215.9	269.9	323.8	381	412.8	469.9	533.4	584.2	692.2
	900#	92.1	127	157.2	185.6	215.9	269.9	323.8	381	412.8	469.9	533.4	584.2	692.2
	1500#	92.1	127	157.2	185.6	215.9	269.9	323.8	381	412.8	469.9	533.4	584.2	692.2
	2500#	92.1	127	157.2	185.6	215.9	269.9	323.8	381	-	-	-	-	-
RF Thickness (mm)	150#	2	2	2	2	2	2	2	2	2	2	2	2	2
	300#	2	2	2	2	2	2	2	2	2	2	2	2	2
	600#	7	7	7	7	7	7	7	7	7	7	7	7	7
	900#	7	7	7	7	7	7	7	7	7	7	7	7	7
	1500#	7	7	7	7	7	7	7	7	7	7	7	7	7
	2500#	7	7	7	7	7	7	7	7	7	7	7	7	7



COMMON TEST / INSPECTION METHODS

Test/Inspection	Method	Acceptance Criteria
Visual Inspection	ASTM E350	MSS SP55
Chemical Analysis	ASTM E370	Relevant ASTM
Mechanical Properties	ASTM B16.34	Relevant ASTM
Radiographic Inspection	ASTM E709	ASME B16.34
Magnetic Particle Inspection	ASTM E165	ASME B16.34
Magnetic Particle Inspection	ASTM A388	ASME B16.34
Ultrasonic Inspection	Vacuum Emission Spectrometer	ASME B16.34
Positive Material Identification (PMI)	-	Customer Specification
Pressure Testing*	API 6D/API 598/BS EN 12266-Part I	API 6D/API 598/BS EN 12266-Part I
Dimensional Inspection	As per drawing + Standard	As per drawing + Standard

TEST PRESSURE FOR STANDARD CARBON STEEL VALVES

Every individual valve manufactured, is inspected and pressure-tested to API 598/BS EN 12266 Part I requirements, for which test certificates are provided

ASME Class	Hydraulic Test Pressure in kg/CM ² (psig)			Pneumatic low pressure closure test pressure in kg/kg/CM ² (psig)
	Shell	Back Seat	Closure	
150	32 (450)	22 (315)	22 (315)	7 (100)
300	79 (1125)	57 (815)	57 (815)	7 (100)
600	156 (2225)	115 (1630)	115 (1630)	7 (100)
900	236 (3350)	172 (2445)	172 (2445)	7 (100)
1500	392 (5575)	287 (4080)	287 (4080)	7 (100)
2500	652 (9275)	477 (6790)	477 (6790)	7 (100)

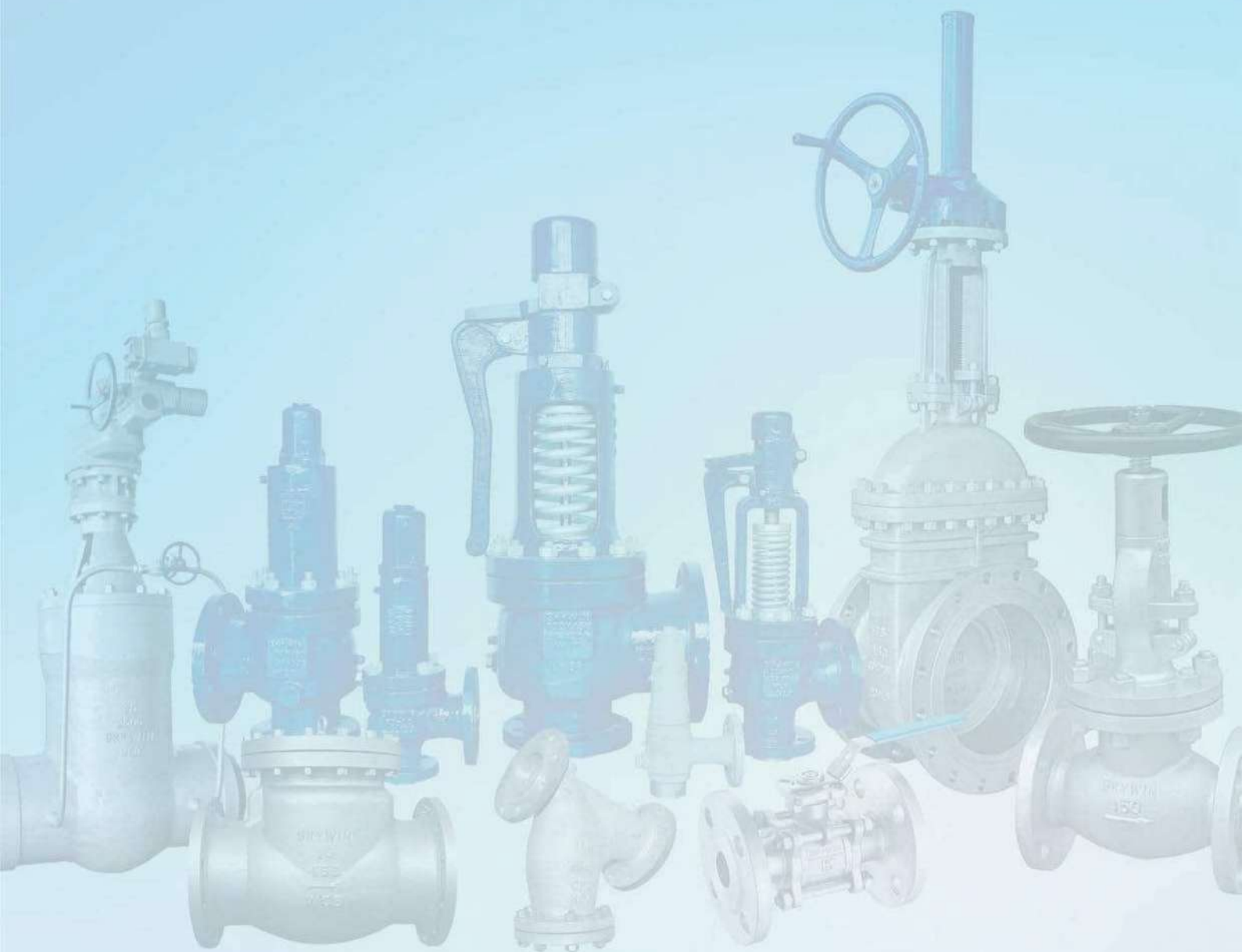
COMPLIANCE STANDARDS

Parameter	Compliance
API 600 Gate Valve	API 600
Globe Valve	BS 1873*
Check Valve	BS 1868*
API 603 Gate Valve	API 603
ASME B16.34 Gate, Globe, Check Valves	ASME B16.34
Pressure-temperature rating	ASME B16.34
Face-to-face/End-to-end Dimension	ASME B16.10
End Flange Dimensions	ASME B16.5**
Butt-weld end dimensions	ASME B16.25
Valve Inspection & Testing	API 600, API 598, BS 6755 Part-I, BS EN 12266-1

MATERIAL CHARTS

Material Classification	ASTM Specification	Working Temperature
Carbon Steel	ASTM A216 Gr. WCB	-29°C to 427°C (-20°F to 800°F)
1¼ Cr - ½ Mo	ASTM A217 Gr. WC6	-29°C to 593°C (-20°F to 1100°F)
2¼ Cr - 1 Mo	ASTM A217 Gr. WC9	-29°C to 593°C (-20°F to 1100°F)
5 Cr - ½ Mo	ASTM A217 Gr. C5	-29°C to 649°C (-20°F to 1200°F)
9 Cr - 1 Mo	ASTM A217 Gr. C12	-29°C to 649°C (-20°F to 1200°F)
9 Cr - 1 Mo - ¼ V	ASTM A217 Gr. C12A	-29°C to 649°C (-20°F to 1200°F)
Low-temperature steel	ASTM A352 Gr. LCB/LCC	-46°C to 343°C (-50°F to 650°F)
Austenitic Stainless Steel 18-8 (Type 304)	ASTM A351 Gr. CF8	-196°C to 649°C (-320°F to 1200°F)
Austenitic Stainless Steel 16Cr-12Ni-2Mo (Type 316)	ASTM A351 Gr. CF8M	-196°C to 649°C (-320°F to 1200°F)

Other materials such as ASTM A3351 Gr. CF3, ASTM A351 Gr. CF3M and Duplex SS are also offered.



FLOWMAX VALVES

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