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Gate Valve Globe Valve
Check Valve Strainer

CAST STEEL GATE VALVE STANDARD MATERIALS OF PARTS

EXAMPIE-N° 371-CB

REFERENCE ACCORDING MATERIALS
REFERENCE ACCORDING PRESSURE

C=	CARBON STEEL
B=	SEAT RING A350 LF2 DISC A352 LCB STEM A182 F304

PRESSURE:

371= CLASS 150-PN 20
372= CLASS 300-PN 50
373= CLASS 600-PN 100
373.5= CLASS 800
374= CLASS 900-PN 150
375= CLASS 1500-PN 250
376= CLASS 2500-PN 420

MATERIALS:

	C CARBON STEEL			A ALLOY STEEL			S STAINLESS STEEL				
	A	B	C	A	B	C	A	B	C	D	E
SEAT RING	A105	A350 LF2	A350 LF2	A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
DISC	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
STEM	A182 F6	A182 F304	A182 F304	A182 F6	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321

CAST STEEL GLOBE VALVE STANDARD MATERIALS OF PARTS

EXAMPIE-N° 51-AC

REFERENCE ACCORDING MATERIALS
REFERENCE ACCORDING PRESSURE

A=	ALLOY STEEL
C=	SEAT RING A182 F8 DISC A217 C5 STEM A182 F6

PRESSURE:

51= CLASS 150-PN 20
52= CLASS 300-PN 50
53= CLASS 600-PN 100
54= CLASS 900-PN 150
55= CLASS 1500-PN 250
56= CLASS 2500-PN 420

MATERIALS:

	C CARBON STEEL			A ALLOY STEEL			S STAINLESS STEEL				
	A	B	C	A	B	C	A	B	C	D	E
SEAT RING	A105	A350 LF2	A350 LF2	A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
DISC	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
STEM	A182 F6	A182 F304	A182 F304	A182 F6	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321

CAST STEEL SWING CHECK VALVE STANDARD MATERIALS OF PARTS

EXAMPIE-N° 63-SD

REFERENCE ACCORDING MATERIALS
REFERENCE ACCORDING PRESSURE

S=	STAINLESS STEEL
D=	SEAT RING A182 F316L DISC A351CF3M

PRESSURE:

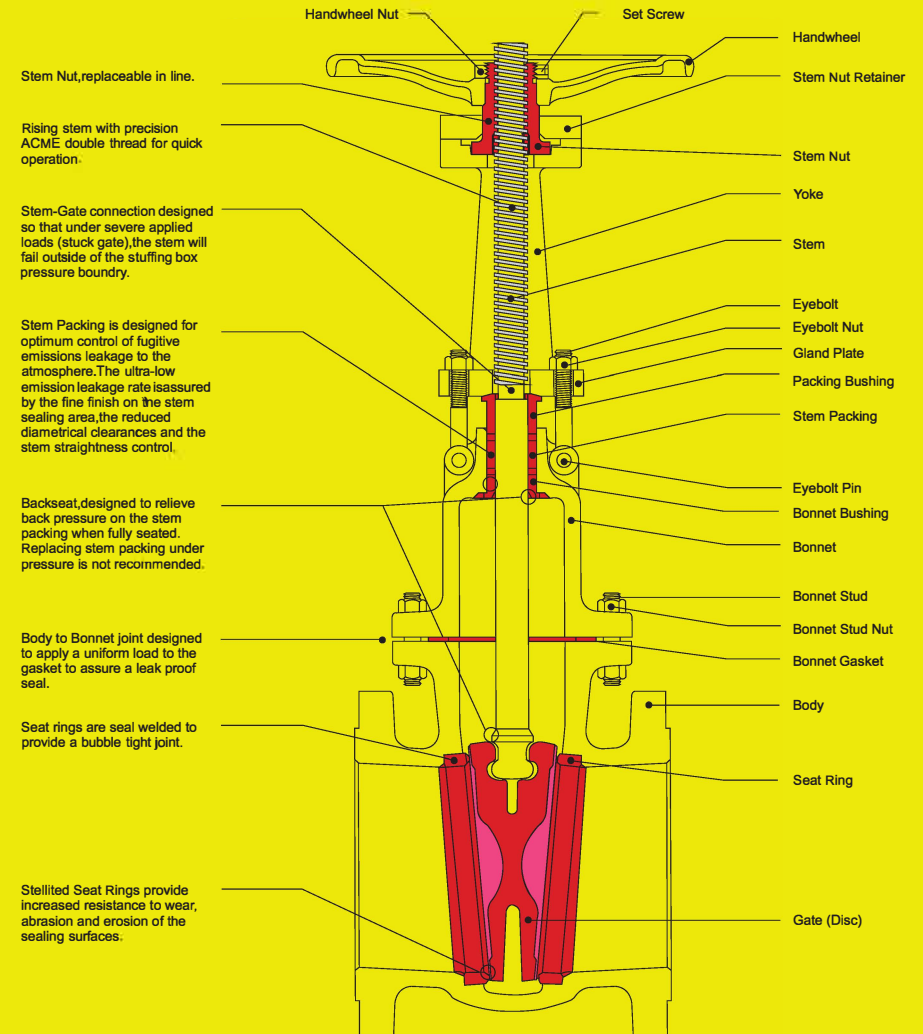
63= CLASS 150-PN 20
68= CLASS 300-PN 50
69= CLASS 600-PN 100
69.5= CLASS 800
70= CLASS 900-PN 150
71= CLASS 1500-PN 250
72= CLASS 2500-PN 420

MATERIALS:

	C CARBON STEEL			A ALLOY STEEL			S STAINLESS STEEL				
	A	B	C	A	B	C	A	B	C	D	E
SEAT RING	A105	A350 LF2	A350 LF2	A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
DISC	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C

The seat ring and disc in option carbon steel and alloy steel, would have close surface with 13%Cr or stellite.

Cast steel Gate Valves with fixed handwheel and rising stem (outside screw and yoke)(OS&Y)

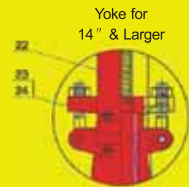


Cast Steel Gate Valve Class 150



SPECIFICATIONS		FEATURES
Design	ASME B16.34/API 600	OS & Y Rising Stem
Face to Face	ASME B16.10	Bolted Bonnet
End to End	ASME B16.10	Flexible Wedge (2" Solid)
End Flange	ASME B16.5	Extended Bonnet for Cryogenic Services
BW End	ASME B16.25	By Pass On Request
Test	API 598	Locking Device Optional
Special	NACE MR-01-75	

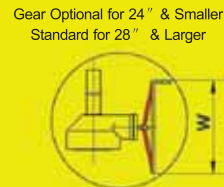
STANDARD MATERIALS OF PARTS		
ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Stem	ASTM A182 GR.F6
5	Gasket	Soft Iron+Graphite
6	Bonnet	ASTM A216 GR.WCB
7	Bonnet Bolt nuts	ASTM A194 GR.2H
8	Bonnet Bolt	ASTM A193 GR.B7
9	Backseat Bushing	ASTM A276 Type 410
10	Stem Packing	Braided Graphite & Die formed Graphite Ring
11	Eye Bolt Pins	Carbon Steel
12	Gland Eye Bolts	ASTM A307 GR.B
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 GR.WCB
15	Eye Bolt Nuts	ASTM A194 GR.2H
16	Grease Nipple	Carbon steel
17	Stem Nut	ASTM A439 GR.D-2
18	Retaining Nut	Carbon steel
19	Handwheel	Ductile Iron
20	Handwheel Nut	Carbon steel
21	Screw	Carbon steel
22	Yoke	ASTM A216 GR.WCB
23	Yoke Pan Bolt Nuts	ASTM A194 GR.2H
24	Yoke Pan Bolts	ASTM A193 GR.B7
25	Bearing	Steel



Yoke for
14" & Larger



Bearing for
16" & Larger



Gear Optional for 24" & Smaller
Standard for 28" & Larger

Dimensions and Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"
	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700	750	800	900
L	in	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00	15.00	16.00	17.00	18.00	20.00	24.00	24.00	28.00	28.00
	mm	178	191	203	229	267	292	330	356	381	406	432	457	508	610	610	711	711
L1	in	8.50	9.50	11.12	12.00	15.88	16.50	18.00	19.75	22.50	24.00	26.00	28.00	32.00	36.00	36.00	38.00	40.00
	mm	216	241	283	305	403	419	457	502	572	610	660	711	813	914	914	965	1016
L2	in	7.50	8.00	8.50	9.50	11.00	12.00	13.50	14.50	15.50	16.50	17.50	18.50	20.50	-	-	-	-
	mm	191	203	216	241	279	305	343	368	394	419	445	470	521	-	-	-	-
H	in	15.31	17.28	19.69	23.43	30.59	38.39	45.67	54.72	61.22	71.30	82.80	90.55	102.72	130.98	141.97	145.98	154.49
	mm	389	439	500	595	777	975	1160	1390	1555	1811	2103	2300	2609	3327	3606	3708	3924
W	in	8	8	10	10	14	14	16	18	22	24	25	27	30	24	24	24	24
	mm	200	200	250	250	350	350	400	450	560	600	640	680	760	610	610	610	610
Weight RF	kg	17	23	29	47	80	129	192	287	410	571	720	1170	1466	1931	2380	2490	3600

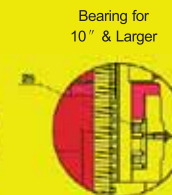
Cast Steel Gate Valve Class 300

SPECIFICATIONS		FEATURES
Design	ASME B16.34/API 600	OS & Y Rising Stem
Face to Face	ASME B16.10	Bolted Bonnet
End to End	ASME B16.10	Flexible Wedge (2" Solid)
End Flange	ASME B16.5	Extended Bonnet for Cryogenic Services
BW End	ASME B16.25	By Pass On Request
Test	API 598	Locking Device Optional
Special	NACE MR-01-75	

STANDARD MATERIALS OF PARTS		
ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Stem	ASTM A182 GR.F6
5	Gasket	Soft Iron+Graphite
6	Bonnet	ASTM A216 GR.WCB
7	Bonnet Bolt nuts	ASTM A194 GR.2H
8	Bonnet Bolt	ASTM A193 GR.B7
9	Backseat Bushing	ASTM A276 Type 410
10	Stem Packing	Braided Graphite & Die formed Graphite Ring
11	Eye Bolt Pins	Carbon Steel
12	Gland Eye Bolts	ASTM A307 GR.B
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 GR.WCB
15	Eye Bolt Nuts	ASTM A194 GR.2H
16	Grease Nipple	Carbon steel
17	Stem Nut	ASTM A439 GR.D-2
18	Retaining Nut	Carbon steel
19	Handwheel	Ductile Iron
20	Handwheel Nut	Carbon steel
21	Screw	Carbon steel
22	Yoke	ASTM A216 GR.WCB
23	Yoke Pan Bolt Nuts	ASTM A194 GR.2H
24	Yoke Pan Bolts	ASTM A193 GR.B7
25	Bearing	Steel
26	Lantern Ring On Request	ASTM A276 Type 410



Yoke for
12" & Larger



Bearing for
10" & Larger



Lantern Ring
On Request

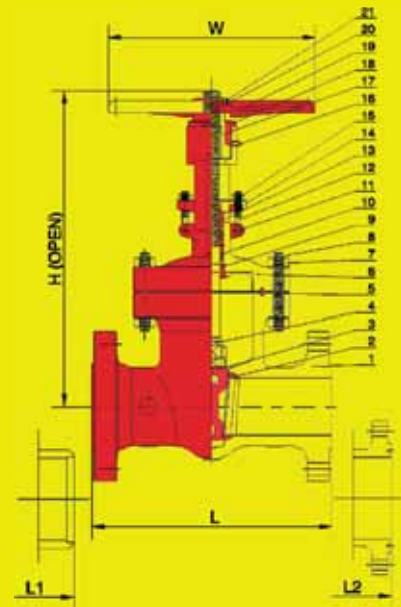


Gear Standard
for 18" & Larger

Dimensions and Weights

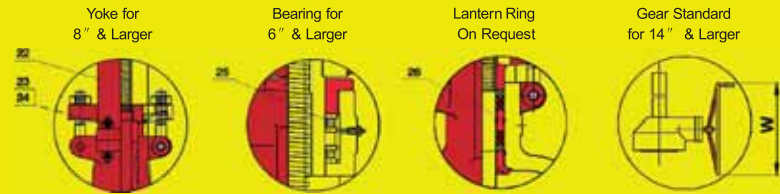
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"
	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700	750
L/L1	in	8.50	9.50	11.12	12.00	15.88	16.50	18.00	19.75	20.00	23.00	23.00	26.00	29.00	33.00	35.00
	mm	216	241	283	305	403	419	457	502	502	584	584	660	729	838	889
L2	in	9.12	10.12	11.74	12.62	16.50	17.12	18.62	20.37	20.37	23.62	23.62	26.62	30.62	34.62	36.62
	mm	232	257	298	321	419	435	473	517	517	600	600	675	779	884	930
H	in	16.93	19.88	20.87	24.80	31.50	39.69	48.82	57.87	64.76	72.48	77.13	86.38	102.28	122.05	130.71
	mm	430	505	530	630	800	1008	1240	1470	1645	1841	1959	2194	2598	3100	3320
W	in	8	10	10	10	14	16	18	20	24	24	24	24	24	24	24
	mm	200	250	250	250	350	400	450	500	600	600	610	610	610	610	610
Weight RF	kg	30	4	57	88	147	219	368	522	694	1080	1235	1655	2320	3893	4930

Cast Steel Gate Valve Class 600



SPECIFICATIONS		FEATURES
Design	ASME B16.34/API 600	OS & Y Rising Stem
Face to Face	ASME B16.10	Bolted Bonnet
End to End	ASME B16.10	Flexible Wedge (2" Solid)
End Flange	ASME B16.5	Extended Bonnet for Cryogenic Services
BW End	ASME B16.25	By Pass On Request
Test	API 598	Locking Device Optional
Special	NACE MR-01-75	

STANDARD MATERIALS OF PARTS		
ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Stem	ASTM A182 GR.F6
5	Gasket	Soft Iron+Graphite
6	Bonnet	ASTM A216 GR.WCB
7	Bonnet Bolt nuts	ASTM A194 GR.2H
8	Bonnet Bolt	ASTM A193 GR.B7
9	Backseat Bushing	ASTM A276 Type 410
10	Stem Packing	Braided Graphite & Die formed Graphite Ring
11	Eye Bolt Pins	Carbon Steel
12	Gland Eye Bolts	ASTM A307 GR.B
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 GR.WCB
15	Eye Bolt Nuts	ASTM A194 GR.2H
16	Grease Nipple	Carbon steel
17	Stem Nut	ASTM A439 GR.D-2
18	Retaining Nut	Carbon steel
19	Handwheel	Ductile Iron
20	Handwheel Nut	Carbon steel
21	Screw	Carbon steel
22	Yoke	ASTM A216 GR.WCB
23	Yoke Pan Bolt Nuts	ASTM A194 GR.2H
24	Yoke Pan Bolts	ASTM A193 GR.B7
25	Bearing	Steel
26	Lantern Ring On Request	ASTM A276 Type 410



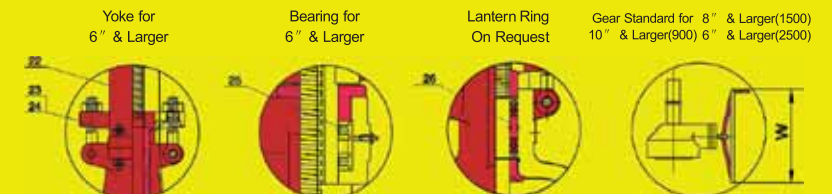
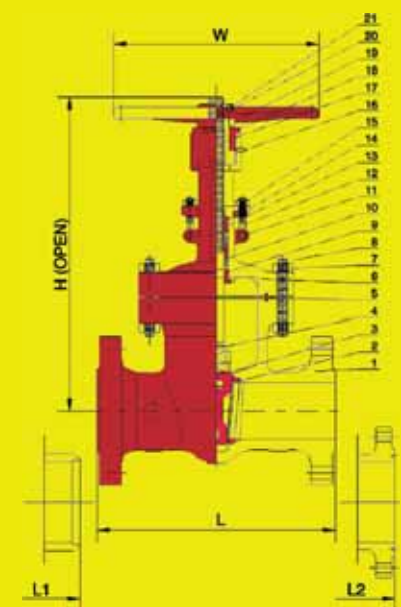
Dimensions and Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L/L1	in	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00
	mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397
L2	in	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38
	mm	295	333	359	435	562	663	790	841	892	994	1095	1200	1407
H	in	17.91	23.14	21.65	27.17	35.83	41.93	49.49	57.80	63.90	71.50	88.98	106.50	110.63
	mm	455	588	550	690	910	1065	1257	1468	1623	1816	2260	2705	2810
W	in	10	10	10	14	18	20	25	27	24	24	24	24	24
	mm	250	250	250	350	450	500	640	680	610	610	610	610	610
Weight RF	kg	45	55	76	127	277	485	754	936	1316	1672	2070	2405	4550

Cast Steel Gate Valve Class 900-2500

SPECIFICATIONS		FEATURES
Design	ASME B16.34/API 600	OS & Y Rising Stem
Face to Face	ASME B16.10	Bolted Bonnet
End to End	ASME B16.10	Flexible Wedge (2" Solid)
End Flange	ASME B16.5	Extended Bonnet for Cryogenic Services
BW End	ASME B16.25	By Pass On Request
Test	API 598	Locking Device Optional
Special	NACE MR-01-75	

STANDARD MATERIALS OF PARTS		
ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Stem	ASTM A182 GR.F6
5	Gasket	Soft Iron+Graphite
6	Bonnet	ASTM A216 GR.WCB
7	Bonnet Bolt nuts	ASTM A194 GR.2H
8	Bonnet Bolt	ASTM A193 GR.B7
9	Backseat Bushing	ASTM A276 Type 410
10	Stem Packing	Braided Graphite & Die formed Graphite Ring
11	Eye Bolt Pins	Carbon Steel
12	Gland Eye Bolts	ASTM A307 GR.B
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 GR.WCB
15	Eye Bolt Nuts	ASTM A194 GR.2H
16	Grease Nipple	Carbon steel
17	Stem Nut	ASTM A439 GR.D-2
18	Retaining Nut	Carbon steel
19	Handwheel	Ductile Iron
20	Handwheel Nut	Carbon steel
21	Screw	Carbon steel
22	Yoke	ASTM A216 GR.WCB
23	Yoke Pan Bolt Nuts	ASTM A194 GR.2H
24	Yoke Pan Bolts	ASTM A193 GR.B7
25	Bearing	Steel
26	Lantern Ring On Request	ASTM A276 Type 410



Dimensions and Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300	50	65	80	100	150	200	250	300
L/L1	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50
	mm	368	419	381	457	610	737	838	965	368	419	470	546	705	832	991	1130
L2	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	14.62	16.62	18.62	21.62	28.00	33.13	39.38	45.12
	mm	371	422	384	460	613	740	841	968	371	422	473	549	711	842	1000	1146
H	in	24.41	27.76	29.02	32.48	41.93	47.99	52.95	72.44	27.36	27.76	30.31	34.33	42.99	55.12	62.95	72.44
	mm	620	705	737	825	1065	1219	1345	1840	695	705	770	872	1092	1400	1600	1840
W	in	12	14	14	16	20	24	24	24	14	16	16	20	24	24	24	24
	mm	300	350	350	400	500	600	610	610	350	400	400	500	600	610	610	610
Weight RF	kg	95	108	125	194	378	635	900	1550	95	128	181	275	627	1000	2200	3300

Cast Steel Globe Valve

Impactor Handwheel, the mechanism is based on transmitting the momentum generated by the mass of the handwheel through the impact/impulse generated during the snap closure action of the handwheel. This type of handwheel is used when a standard handwheel cannot create enough closing force to effect a seal.

Stem Nut replaceable in the line.

Revolving rising stem with precision ACME thread.

Stem Packing is designed for optimum control of fugitive emissions leakage to the atmosphere. The ultra low emission leakage rate is assured by the fine finish in the stem, the reduced diametrical clearances and the stem straightness control.

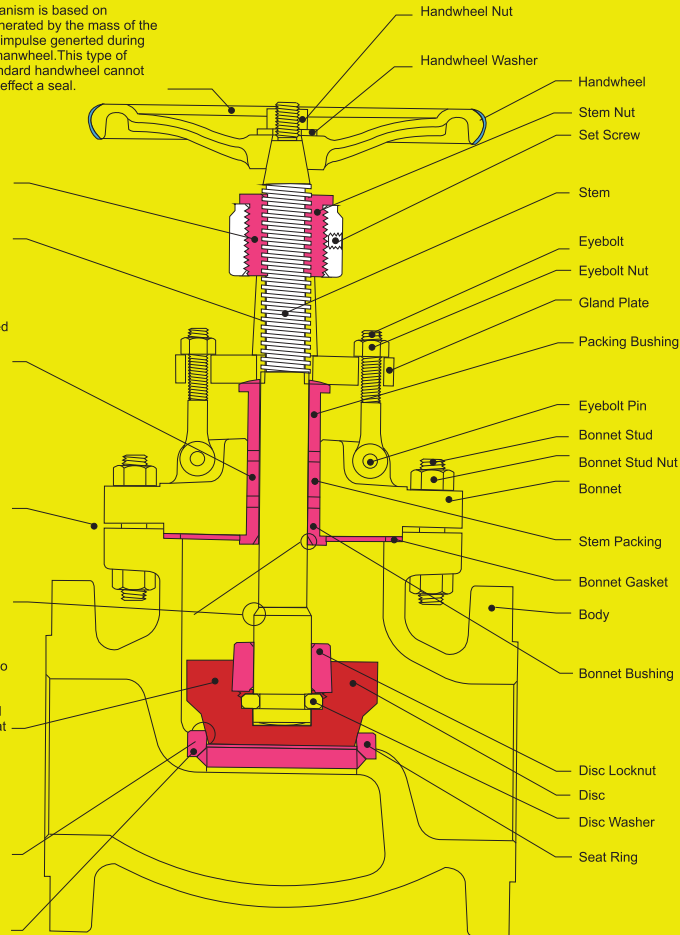
Body to Bonnet Joint designed to apply a uniform load to the gasket to assure a leak proof seal.

Backseat designed to relieve back pressure on the stem packing when fully seated. Replacing stem packing under pressure is not recommended.

Conical Disc, integrally guided to assure true alignment between disc and valve body. The loose disc design allows the disc and seat ring sealing surface to seat correctly without damage.

Stellited Seat Ring, providing increased resistance to wear, abrasion and erosion of the sealing surface.

Seat ring is seal welded to provide a bubble tight joint..



Cast Steel Globe Valve Class 150 Cast Steel Gate Valve Class 900-2500

SPECIFICATIONS

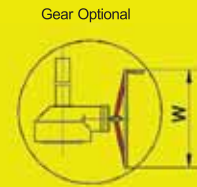
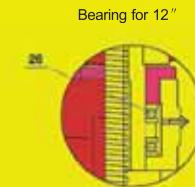
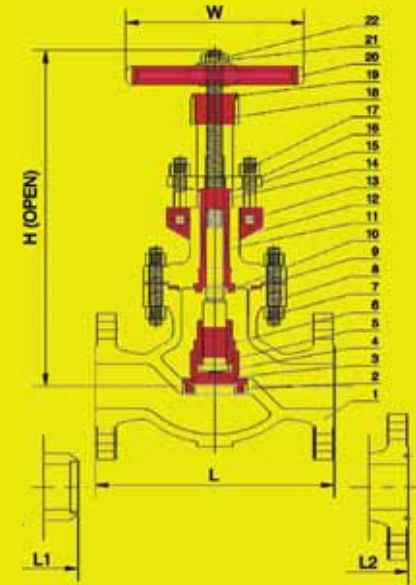
Design	ASME B16.34/BS1873
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

FEATURES

OS & Y, Rising Stem
Bolted Bonnet
Conic Disc
Extended Bonnet for Cryogenic Services
Impact hand wheel Optional
Gear Optional

STANDARD MATERIALS OF PARTS

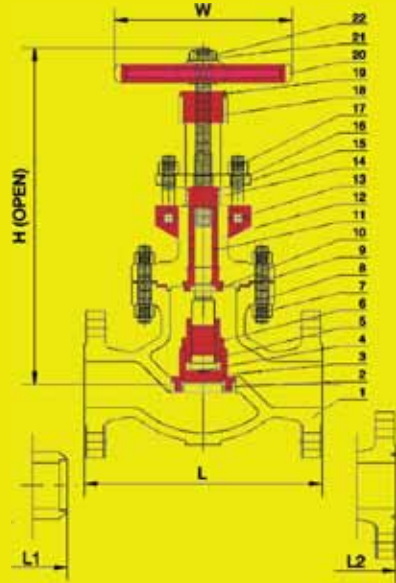
ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A105+13Cr Faced
4	Disc Thrust Plate	ASTM A276 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 GR.F6
7	Bonnet Bolt nuts	ASTM A194 GR.2H
8	Bonnet Bolt	ASTM A193 GR.B7
9	Gasket	Soft Iron+Graphite
10	Backseat Bushing	ASTM A276 Type 410
11	Stem Packing	Braided Graphite & Die formed Graphite Ring
12	Bonnet	ASTM A216 GR.WCB
13	Eye Bolt Pins	Carbon Steel
14	Gland	ASTM A276 Type 410
15	Gland Flange	ASTM A216 GR.WCB
16	Gland Eye Bolts	ASTM A307 GR.B
17	Eye Bolt Nuts	ASTM A194 GR.2H
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon steel
20	Handwheel	Ductile Iron
21	Handwheel Nut	ASTM A194 GR.2H
22	Washer	Carbon steel
23	Yoke	ASTM A216 GR.WCB
24	Yoke Pan Bolt Nuts	ASTM A194 GR.2H
25	Yoke Pan Bolts	ASTM A193 GR.B7
26	Bearing	Steel



Dimensions and Weights

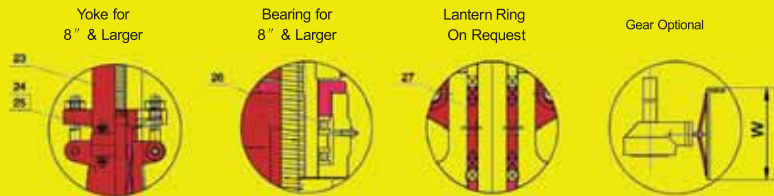
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L/L 1	in	8.00	8.50	9.50	11.50	16.00	19.50	24.50	27.50
	mm	203	216	241	292	406	495	622	698
L 2	in	8.50	9.00	10.00	12.00	16.50	20.00	25.00	28.00
	mm	216	229	254	305	419	508	635	711
H	in	13.58	16.34	15.94	19.09	20.47	23.62	30.00	33.94
	mm	345	415	405	485	520	600	762	862
W	in	8	8	10	12	14	18	20	25
	mm	200	200	250	300	350	450	500	640
Weight RF	kg	22	32	38	62	104	159	308	539

Cast Steel Globe Valve Class 300 Cast Steel Globe Valve



SPECIFICATIONS		FEATURES
Design	ASME B16.34/BS1873	OS & Y Rising Stem
Face to Face	ASME B16.10	Bolted Bonnet
End to End	ASME B16.10	Conic Disc
End Flange	ASME B16.5	Extended Bonnet for Cryogenic Services
BW End	ASME B16.25	Impact hand wheel Optional
Test	API 598	Gear Optional
Special	NACE MR-01-75	

STANDARD MATERIALS OF PARTS		
ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A105+13Cr Faced
4	Disc Thrust Plate	ASTM A276 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 GR.F6
7	Bonnet Bolt nuts	ASTM A194 GR.2H
8	Bonnet Bolt	ASTM A193 GR.B7
9	Gasket	Soft Iron+Graphite
10	Backseat Bushing	ASTM A276 Type 410
11	Stem Packing	Braided Graphite & Die formed Graphite Ring
12	Bonnet	ASTM A216 GR.WCB
13	Eye Bolt Pins	Carbon Steel
14	Gland	ASTM A276 Type 410
15	Gland Flange	ASTM A216 GR.WCB
16	Gland Eye Bolts	ASTM A307 GR.B
17	Eye Bolt Nuts	ASTM A194 GR.2H
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon steel
20	Handwheel	Ductile Iron
21	Handwheel Nut	ASTM A194 GR.2H
22	Washer	Carbon steel
23	Yoke	ASTM A216 GR.WCB
24	Yoke Pan Bolt Nuts	ASTM A194 GR.2H
25	Yoke Pan Bolts	ASTM A193 GR.B7
26	Bearing	Steel



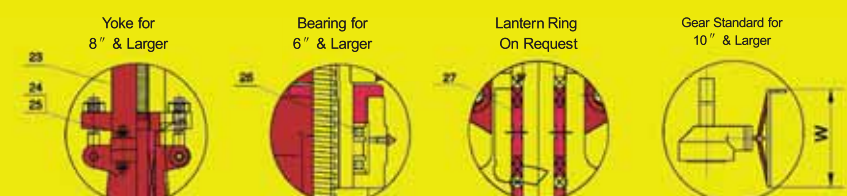
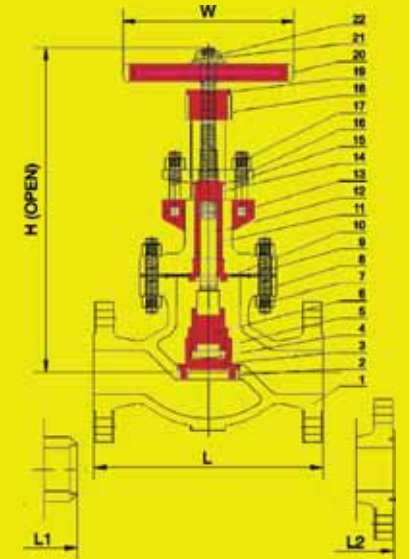
Dimensions and Weights

SIZE	in mm	2" 50	2.5" 65	3" 80	4" 100	6" 150	8" 200	10" 250	12" 300
L/L1	in	10.50	11.50	12.50	14.00	17.50	22.00	24.50	28.00
	mm	267	292	318	356	445	559	622	711
L2	in	11.12	12.12	13.12	14.62	18.12	22.62	25.12	28.62
	mm	283	308	333	371	460	575	638	727
H	in	14.57	18.66	17.32	20.67	24.41	35.83	37.36	40.63
	mm	370	474	440	525	620	910	949	1032
W	in	8	10	10	14	18	22	24	26
	mm	200	250	250	350	450	560	600	650
Weight RF	kg	28	48	56	82	154	240	319	632

Cast Steel Globe Valve Class 600

SPECIFICATIONS		FEATURES
Design	ASME B16.34/BS1873	OS & Y Rising Stem
Face to Face	ASME B16.10	Bolted Bonnet
End to End	ASME B16.10	Conic Disc
End Flange	ASME B16.5	Extended Bonnet for Cryogenic Services
BW End	ASME B16.25	Impact hand wheel Optional
Test	API 598	Gear Optional
Special	NACE MR-01-75	

STANDARD MATERIALS OF PARTS		
ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A105+13Cr Faced
4	Disc Thrust Plate	ASTM A276 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 GR.F6
7	Bonnet Bolt nuts	ASTM A194 GR.2H
8	Bonnet Bolt	ASTM A193 GR.B7
9	Gasket	Soft Iron
10	Backseat Bushing	ASTM A276 Type 410
11	Stem Packing	Braided Graphite & Die formed Graphite Ring
12	Bonnet	ASTM A216 GR.WCB
13	Eye Bolt Pins	Carbon Steel
14	Gland	ASTM A276 Type 410
15	Gland Flange	ASTM A216 GR.WCB
16	Gland Eye Bolts	ASTM A307 GR.B
17	Eye Bolt Nuts	ASTM A194 GR.2H
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon steel
20	Handwheel	Ductile Iron
21	Handwheel Nut	ASTM A194 GR.2H
22	Washer	Carbon steel
23	Yoke	ASTM A216 GR.WCB
24	Yoke Pan Bolt Nuts	ASTM A194 GR.2H
25	Yoke Pan Bolts	ASTM A193 GR.B7
26	Bearing	Steel
27	Lantern Ring ON Request	ASTM A276 Type 410

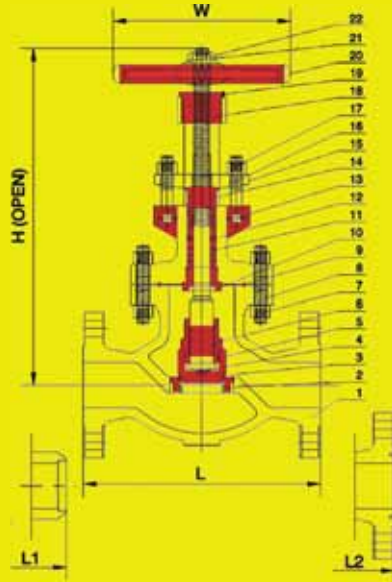


Dimensions and Weights

SIZE	in mm	2" 50	2.5" 65	3" 80	4" 100	6" 150	8" 200	10" 250	12" 300
L/L1	in	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00
	mm	292	330	356	432	559	660	787	838
L2	in	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12
	mm	295	333	359	435	562	663	790	841
H	in	18.19	21.26	23.03	26.38	34.88	36.69	40.94	50.39
	mm	462	540	585	670	886	932	1040	1280
W	in	10	10	12	18	20	25	24	24
	mm	250	250	350	450	500	630	610	610
Weight RF	kg	36	70	85	123	404	450	700	900

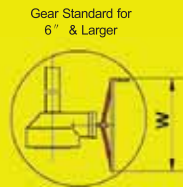
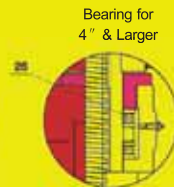
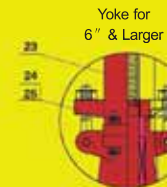
Cast Steel Globe Valve Class 900-2500

Cast Steel Swing Check Valve



SPECIFICATIONS		FEATURES
Design	ASME B16.34/BS1873	OS & Y Rising Stem
Face to Face	ASME B16.10	Bolted Bonnet
End to End	ASME B16.10	Conic Disc
End Flange	ASME B16.5	Extended Bonnet for Cryogenic Services
BW End	ASME B16.25	
Test	API 598	Impact hand wheel Optional
Special	NACE MR-01-75	Gear Optional

STANDARD MATERIALS OF PARTS		
ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A105+Stellite Faced
4	Disc Thrust Plate	ASTM A276 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 GR.F6
7	Bonnet Bolt nuts	ASTM A194 GR.2H
8	Bonnet Bolt	ASTM A193 GR.B7
9	Gasket	Soft Iron
10	Backseat Bushing	ASTM A276 Type 410
11	Stem Packing	Braided Graphite & Die formed Graphite Ring
12	Bonnet	ASTM A216 GR.WCB
13	Eye Bolt Pins	Carbon Steel
14	Gland	ASTM A276 Type 410
15	Gland Flange	ASTM A216 GR.WCB
16	Gland Eye Bolts	ASTM A307 GR.B
17	Eye Bolt Nuts	ASTM A194 GR.2H
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon steel
20	Handwheel	Ductile Iron
21	Handwheel Nut	ASTM A194 GR.2H
22	Washer	Carbon steel
23	Yoke	ASTM A216 GR.WCB
24	Yoke Pan Bolt Nuts	ASTM A194 GR.2H
25	Yoke Pan Bolts	ASTM A193 GR.B7
26	Bearing	Steel
27	Lantern Ring ON Request	ASTM A276 Type 410



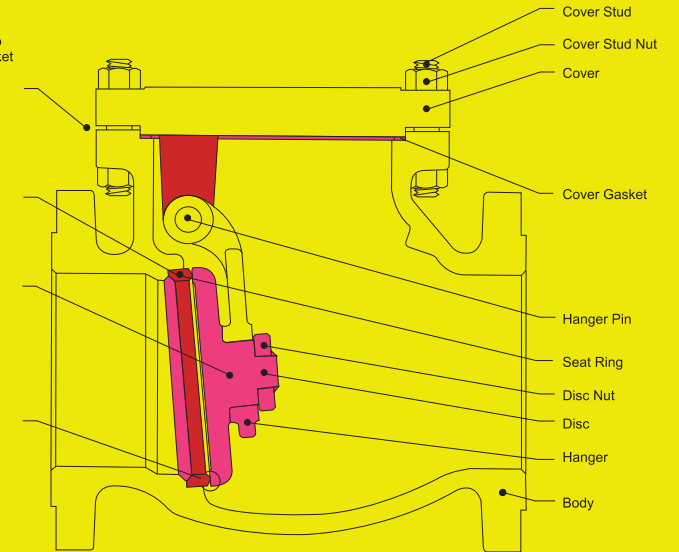
Dimensions and Weights		CALSS 900						CALSS 1500						CALSS 2500					
		2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"
SIZE	in	2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"
	mm	50	65	80	100	150	200	50	65	80	100	150	200	50	65	80	100	150	200
L/L1	in	14.50	16.50	15.00	18.00	24.00	29.00	14.50	16.50	18.50	21.50	27.75	32.75	17.75	20.00	22.75	26.50	36.00	40.25
	mm	368	419	381	457	610	737	368	419	470	546	705	832	451	508	578	673	914	1022
L2	in	14.62	16.62	15.12	18.12	24.12	29.12	14.62	16.62	18.62	21.62	28.00	33.13	17.87	20.25	23.00	26.88	36.50	40.87
	mm	371	422	384	460	613	740	371	422	473	549	711	841	454	514	584	683	927	1038
H	in	23.62	25.98	26.18	31.50	43.62	46.61	25.98	25.98	30.31	33.46	45.08	52.95	28.35	31.50	34.84	49.61	75.00	97.05
	mm	600	660	665	800	1108	1184	660	660	770	850	1145	1345	720	800	885	1260	1905	2465
W	in	14	14	18	20	24	24	14	14	20	22	24	24	16	20	22	24	24	24
	mm	350	350	450	500	610	610	350	350	500	560	610	610	400	500	560	600	610	610
Weight RF	kg	95	138	122	195	435	730	95	138	250	435	540	970	176	264	308	759	1990	4390

Body to Cover Joint designed to apply a uniform load to the gasket to assure a leak proof seal. Seat Rings are seal welded to provide a bubble tight joint.

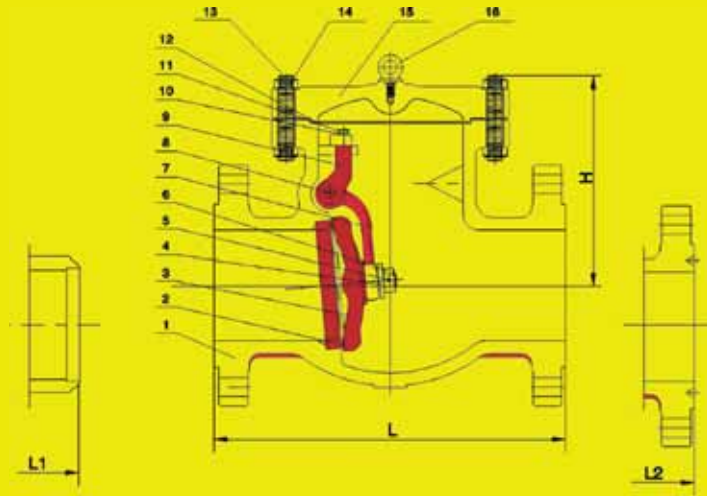
Disc to Hanger connection allows the disc a controlled movement independent of the hanger to assure proper disc alignment with the seat at closure.

The connection is secured by a welded disc nut to prevent disassembly due to vibration and closure impact.

Stellite Seat Ring provides increased resistance to wear abrasion and erosion of the sealing surface.



Cast Steel Swing Check Valve Class 150



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Disc Thrust Plate	ASTM A276 Type 410
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Higne	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6
9	Bearing Bracket	ASTM A216 GR.WCB
10	Spring Washer	Carbon Steel
11	Hex, Bolt	Carbon Steel
12	Gasket	Soft Iron+Graphite
13	Cover Bolt	ASTM A193 GR.B7
14	Cover Bolt Nut	ASTM A194 GR.2H
15	Cover	ASTM A216 GR.WCB
16	Eye Bolt	Carbon Steel

FEATURES

Bolted Cover
Swing Type Disc
6 " & Larger With Eye Bolt
By Pass On Request
Lever & Wight Optional

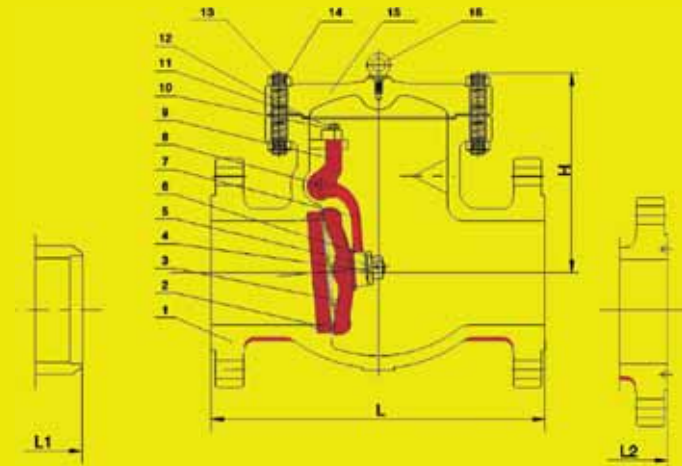
SPECIFICATIONS

Design	ASME B16.34/BS 1868
Face to Face	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

Dimensions and Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L/L1	in	8.00	8.50	9.50	11.50	14.00	19.50	24.50	27.50	31.00	34.00	38.50	38.50	51.00
	mm	203	216	241	292	356	495	622	699	787	864	978	978	1295
L2	in	8.5	9.00	10.00	12.00	14.50	20.00	25.00	28.00	31.50	34.50	39.00	39.00	51.50
	mm	216	229	2254	305	368	508	635	711	800	876	991	991	1308
H	in	6.10	6.70	7.09	8.66	10.55	12.20	14.57	16.73	18.70	20.67	22.83	24.72	34.72
	mm	155	170	180	220	268	310	370	425	475	525	580	628	882
Weight RF	kg	19	26	29	46	77	163	220	366	428	555	775	835	1180

Cast Steel Swing Check Valve Class 300



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Disc Washer	ASTM A276 Type 410
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Higne	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6
9	Bearing Bracket	ASTM A216 GR.WCB
10	Spring Washer	Carbon Steel
11	Hex, Bolt	Carbon Steel
12	Gasket	Soft Iron+Graphite
13	Cover Bolt	ASTM A193 GR.B7
14	Cover Bolt Nut	ASTM A194 GR.2H
15	Cover	ASTM A216 GR.WCB
16	Eye Bolt	Carbon Steel

FEATURES

Bolted Cover
Swing Type Disc
4 " & Larger With Eye Bolt
By Pass On Request
Lever & Wight Optional

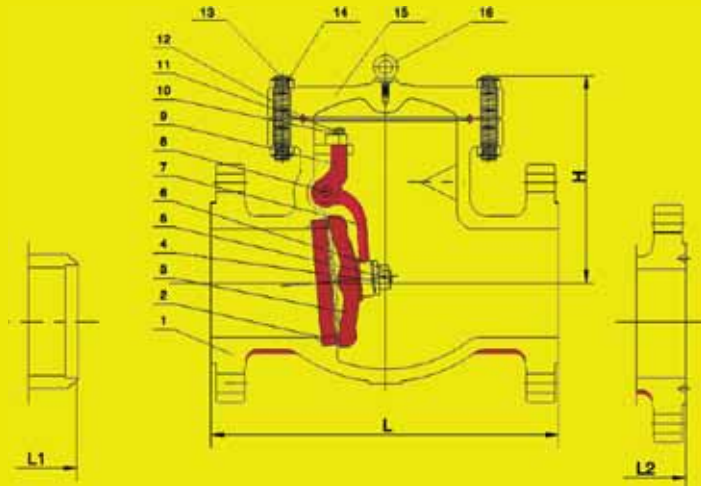
SPECIFICATIONS

Design	ASME B16.34/BS 1868
Face to Face	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

Dimensions and Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L/L1	in	10.50	11.50	12.50	14.00	17.50	21.00	24.50	28.00	33.00	34.00	38.50	40.00	53.00
	mm	267	292	318	356	445	533	622	711	838	864	978	1016	1346
L2	in	11.12	12.12	13.12	14.62	18.12	21.62	25.12	28.62	33.62	34.62	39.12	40.75	53.88
	mm	283	308	333	371	460	549	638	727	854	879	994	1035	1368
H	in	6.89	7.28	7.80	9.25	11.10	13.19	15.15	18.11	20.47	21.81	23.62	26.38	29.53
	mm	175	185	198	235	282	335	385	460	520	554	600	670	750
Weight RF	kg	21	30	39	69	125	210	307	450	680	840	1025	1320	1960

Cast Steel Swing Check Valve Class 600



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Disc Washer	ASTM A276 Type 410
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Higne	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6
9	Bearing Bracket	ASTM A216 GR.WCB
10	Spring Washer	Carbon Steel
11	Hex, Bolt	Carbon Steel
12	Gasket	Soft Iron+Graphite
13	Cover Bolt	ASTM A193 GR.B7
14	Cover Bolt Nut	ASTM A194 GR.2H
15	Cover	ASTM A216 GR.WCB
16	Eye Bolt	Carbon Steel

FEATURES

Bolted Cover
Swing Type Disc
With Eye Bolt
By Pass On Request
Lever & Wight Optional

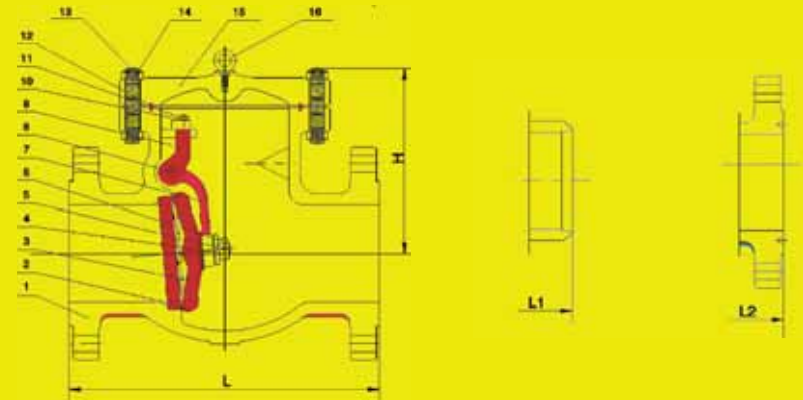
SPECIFICATIONS

Design	ASME B16.34/BS 1868
Face to Face	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

Dimensions and Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L/L1	in	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00
	mm	292	330	356	432	559	660	757	828	889	991	1092	1194	1397
L2	in	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38
	mm	295	333	359	435	562	663	790	841	892	994	1095	1200	1407
H	in	7.166	7.87	8.94	10.24	12.80	15.35	19.29	20.79	22.56	25.98	28.35	29.37	37.80
	mm	182	200	227	260	325	390	490	528	572	660	720	746	960
Weight RF	kg	36	49	70	122	269	465	673	875	994	1220	1620	2120	3100

Cast Steel Swing Check Valve Class 900-2500



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Disc Washer	ASTM A276 Type 410
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Higne	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6
9	Bearing Bracket	ASTM A216 GR.WCB
10	Spring Washer	Carbon Steel
11	Hex, Bolt	Carbon Steel
12	Gasket, Ring Joint	Soft Iron+Graphite
13	Cover Bolt	ASTM A193 GR.B7
14	Cover Bolt Nut	ASTM A194 GR.2H
15	Cover	ASTM A216 GR.WCB
16	Eye Bolt	Carbon steel

FEATURES

Bolted Cover
Swing Type Disc
With Eye Bolt
By Pass On Request
Lever & Wight Optional

SPECIFICATIONS

Design	ASME B16.34/BS 1868
Face to Face	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

Dimensions and Weights		CALSS 900												CALSS 1500												CALSS 2500											
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	2"	2.5"	3"	4"	6"	8"	10"	12"	2"	2.5"	3"	4"	6"	8"	10"	12"	2"	2.5"	3"	4"	6"	8"	10"	12"				
	mm	50	65	80	100	150	200	250	300	50	65	80	100	150	200	250	300	50	65	80	100	150	200	250	300	50	65	80	100	150	200	250	300				
L/L1	in	14.50	16.50	15.00	18.00	18.00	24.00	29.00	33.00	38.00	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50	17.75	20.00	22.75	26.50	36.00	40.25	50.00	56.00											
	mm	368	419	381	457	610	737	838	965	368	419	470	546	705	832	991	1130	451	508	578	673	914	1022	1270	1422												
L2	in	14.62	14.62	15.12	18.12	24.12	29.12	33.12	38.12	14.62	16.62	18.62	21.62	28.00	33.13	39.38	38.12	17.87	20.25	23.00	26.88	36.50	40.87	50.88	56.88												
	mm	371	422	384	460	613	740	841	968	371	422	473	549	711	841	1000	1146	454	514	584	683	927	1038	1292	1445												
H	in	11.65	11.81	11.81	12.87	17.36	19.76	26.14	30.51	11.65	11.81	13.43	16.22	20.12	26.77	29.76	33.74	16.38	16.50	17.36	18.86	20.12	27.99	33.50	39.37												
	mm	296	300	300	327	441	502	664	775	296	300	341	412	511	680	756	857	419	441	479	511	711	851	1000													
Weight RF	kg	70	100	91	150	305	510	810	1120	70	100	150	245	550	1010	1550	2280	145	240	330	650	1400	2420	3750	5500												

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Material of Construction

CAST STEEL GATE VALVE STANDARD MATERIALS OF PARTS

ITEM	PART NAME	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL				
1	Body	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
2	seat ring	A105	A350 LF2	A350 LFC	A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
3	disc	A216 WCB	A352 LCB	A352 LCC	A216 WC1	A216 WC6	A216 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
4	stem	A182 F6	A182 F304	A182 F304L	A182 F6	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
5	Gasket	CL150-300 CL600-2500 Ring Joint	Soft Iron+ Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite
6	Bonnet	A216 WCB	A352 LCB	A352 LCC	A216 WC1	A216 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
7	bonnet bolt nuts	A194 2H	A194 4	A194 4	A194 2H	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8	A194 8
8	bonnet bolt	A193 B7	A193 L7	A193 L7	A193 B7	A193 B16	A193 B16	A276 304	A276 316	A276 304L	A276 316L	A276 321
9	backseat bushing	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	A276 321
10	Stem Packing	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring
11	Eye Bolt Pins	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
12	Gland eye bolts	A307 B	A193 L7	A193 L7	A193 B7	A193 B16	A193 B16	A276 304	A276 316	A276 304L	A276 316L	A276 321
13	gland flange	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	A276 321
14	gland flange	A216 WCB	A352 LCB	A352 LCC	A216 WC1	A216 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
15	Eye Bolt Nuts	A194 2H	A194 4	A194 4	A194 2H	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8	A194 8
16	Grease Nipple	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
17	Stem Nut	A439 D-2	A439 D-2	A439 D-2	A439 D-2	A439 D-2	A439 D-2	AL-Bronze	AL-Bronze	AL-Bronze	AL-Bronze	AL-Bronze
18	Retaining Nut	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
19	handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
20	handwheel nut	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
21	Screw	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
22	yoke	A216 WCB	A352 LCB	A352 LCC	A216 WCB	A216 WCB	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
23	yoke pan bolt nuts	A194 2H	A194 4	A194 4	A194 2H	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8	A194 8
24	yoke pan bolts	A193 B7	A193 L7	A193 L7	A193	A193 B16	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
25	bearing	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
26	Lantern Ring On Request	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410	A276 304	A276 316	A276 316	A276 316L	A276 321

CAST STEEL GLOBE VALVE STANDARD MATERIALS OF PARTS

ITEM	PART NAME	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL				
1	Body	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
2	seat ring	A105	A350 LF2	A350 LFC	A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
3	disc	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A216 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
4	Disc Thrust Plate	A276 420	A276 304	A276 304	A276 420	A276 420	A276 420	A276 304	A276 316	A276 304L	A276 316L	A276 321
5	Disc Nut	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	A276 321
6	stem	A182 F6	A182 F304	A182 F304L	A182 F6	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
7	Bonnet Bolt Nuts	A194 2H	A194 4	A194 4	A194 2H	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8	A194 8
8	bonnet bolt	A193 B7	A193 L7	A193 L7	A193 B7	A193 B16	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
9	Gasket	CL150-300 CL600-2500 Ring Joint	Soft Iron+ Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite
10	Backseat Bushing	A216 410	A276 304	A276 304	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	A276 321
11	Stem Packing	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring	Braided Graphite& Die formed Graphite Ring
12	Bonnet	A216 WCB	A352 LCB	A352 LCC	A216 WC1	A216 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
13	Eye Bolt Pins	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
14	Gland Flange	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	A276 321
15	Gland Flange	A216 WCB	A352 LCB	A352 LCC	A216 WC1	A216 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
16	Gland Eye Bolts	A307 B	A193 L7	A193 L7	A193 B7	A193 B16	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
17	Eye Bolt Nuts	A194 2H	A194 4	A194 4	A194 2H	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8	A194 8
18	Yoke Bush	A439 D-2	A439 D-2	A439 D-2	A439 D-2	A439 D-2	A439 D-2	AL-Bronze	AL-Bronze	AL-Bronze	AL-Bronze	AL-Bronze
19	Screw	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
20	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
21	Handwheel Nut	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
22	Washer	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
23	Yoke	A216 WCB	A352 LCB	A352 LCC	A216 WCB	A216 WCB	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
24	Yoke Pan Bolt Nuts	A194 2H	A194 4	A194 4	A194 2H	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8	A194 8
25	Yoke Pan Bolts	A193 B7	A193 L7	A193 L7	A193 B7	A193 B16	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
26	Bearing	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
27	Lantern Ring On Request	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	A276 321

CAST STEEL SWING CHECK VALVE STANDARD MATERIALS OF PARTS

ITEM	PART NAME	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL				
1	Body	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
2	seat ring	A105	A350 LF2	A350 LFC	A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
3	disc	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A216 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
4	Disc Washer	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410	A276 304	A276 316	A276 304L	A276 316L	A276 321
5	Disc Nut Pin	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
6	Disc Nut	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
7	Hinge	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
8	Hinge Pin	A182 F6	A182 F304	A182 F304L	A182 F6	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
9	Bearing Bracket	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
10	Spring Washer	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
11	Hex. Bolt	A193 B7	A193 L7	A193 L7	A193 B7	A193 B16	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
12	Gasket	CL150-300 CL600-2500 Ring Joint	Soft Iron+ Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite	304+Graphite
13	Cover Bolt	A193 B7	A193 L7	A193 L7	A193 B7	A193 B16	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	A193 B8
14	Cover Bolt Nut	A194 2H	A194 4	A194 4	A194 2H	A194 4	A194 4	A194 8	A194 8	A194 8	A194 8	A194 8
15	Cover	A216 WCB	A352 LCC	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
16	Eye Bolt	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
17	Plug	A105	A350 LF2	A350 LFC	A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321

Pressure Seal Gate Valve Class 900-2500

SPECIFICATIONS

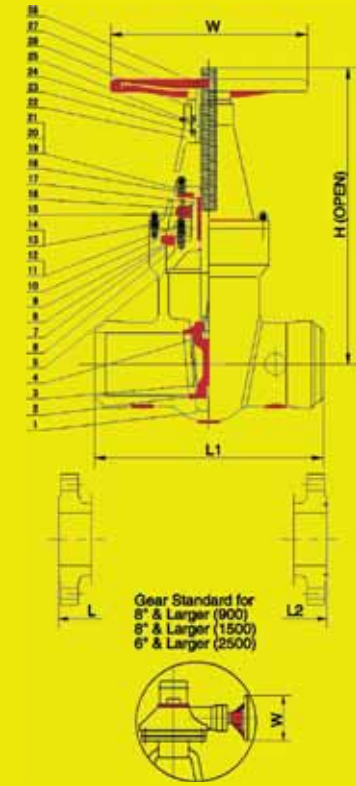
Design	ASME B16.34
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR- 01-75

FEATURES

OS & Y.Rising Stem
Pressure Seal
Flexible Wedge
Backseat Weld-Deposited
By Pass On Request
Locking Device Optional
Gear Optional

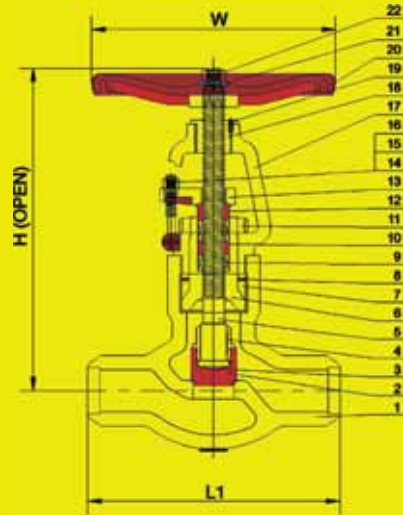
STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A21
4	Stem	ASTM A182 GR.F6
5	Bonnet	ASTM A216 GR. WCB+Stellite Faced
6	Gasket	ASTM A182 GR. F304
7	Thrust Ring	ASTM A276 Type 410
8	Separate Ring	Carbon Steel
9	Lantern Ring On Request	ASTM A276 Type 410
10	Bonnet Retainer	Carbon Steel
11	Bonnet Bolts	ASTM A193 GR.B7
12	Bonnet Bolt nuts	ASTM A194 GR.2H
13	Yoke Bolts	ASTM A194 GR.B7
14	Yoke Bolt Nuts	ASTM A193 GR.2H
15	Gland Eye	ASTM A216 GR.WCB
16	Stem Packing	Braided Graphite & Die formed Graphite Ring
17	Gland	ASTM A276 Type 410
18	Gland Flange	ASTM A216 GR.WCB
19	Eye Bolt Pins	Carbon steel
20	Gland Eye Bolts	ASTM A193 GR.B7
21	Eye Bolt Nuts	ASTM A194 GR.2H
22	Yoke	ASTM A216 GR.WCB
23	Bearing	Steel
24	Stem Nut	ASTM A439 GR. D-2
25	Grease Nipple	Carbon Steel
26	Retaining Nut	Carbon Steel
27	Handwheel	Ductile Iron
28	Handwheel Nut	Carbon Steel



Dimensions and Weights		CALSS 900												CALSS 1500												CALSS 2500											
		2"	2.5"	3"	4"	6"	8"	10"	12"	2"	2.5"	3"	4"	6"	8"	10"	12"	2"	2.5"	3"	4"	6"	8"	10"	12"												
SIZE	in	50	65	80	100	150	200	250	300	50	65	80	100	150	200	250	300	50	65	80	100	150	200	250	300												
	mm	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	17.50	20.00	22.75	26.50	36.00	40.25	50.00	56.00	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50												
L	in	368	419	381	457	610	737	838	965	508	578	673	714	1022	1270	1422	368	419	470	546	705	832	991	1130													
	mm	8.50	10.00	12.00	14.00	20.00	26.00	31.00	36.00	11.00	13.00	14.50	18.00	24.00	30.00	36.00	41.00	8.50	10.00	12.00	16.00	22.00	28.00	34.00	39.00												
L1	in	216	254	305	356	508	660	787	914	279	330	368	457	610	762	914	1041	216	254	305	406	559	711	864	991												
	mm	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	17.87	20.25	23.00	26.88	36.50	40.87	50.88	56.88	14.62	16.62	18.62	21.62	28.00	33.13	39.38	45.12												
L2	in	371	422	384	460	613	740	841	968	454	514	584	683	927	1038	1292	1445	371	422	473	549	711	842	1000													
	mm	24.41	30.00	30.71	33.86	40.63	50.63	60.63	70.24	24.00	30.55	30.94	44.00	44.02	53.48	66.14	74.50	24.00	30.55	30.90	34.40	40.35	53.46	61.74	74.50												
H	in	620	762	780	860	1025	1286	1546	1785	610	776	785	874	1118	1358	1680	1892	610	776	785	874	1025	1358	1568	1892												
	mm	12	14	14	16	20	24	24	24	14	18	18	20	24	24	24	24	12	16	16	20	24	24	24	24												
W	in	300	350	350	400	500	610	610	610	350	450	450	500	610	610	610	610	300	400	400	500	610	610	610	610												
	mm	30	35	35	40	50	60	60	60	35	45	45	50	60	60	60	60	30	40	40	50	60	60	60	60												
Weight RF	kg	50	72	86	110	202	530	610	610	112	122	192	480	830	1678	2320	50	92	92	145	230	540	1060	1184													
	mm	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	17.50	20.00	22.75	26.50	36.00	40.25	50.00	56.00	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50												

Pressure Seal Globe Valve Class 900-2500



SPECIFICATIONS

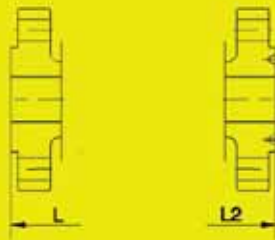
Design	ASME B16.34
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

FEATURES

OS & Y Rising Stem
Pressure Seal
Conic Disc
Backseat Weld-Deposited
By Pass On Request
Locking Device Optional
Gear Optional

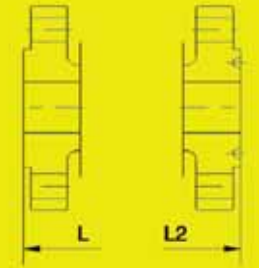
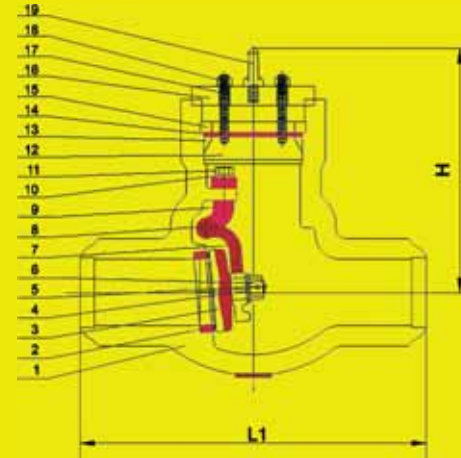
STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216GR.WCB+Stellite Faced
2	Disc	ASTM A105+13Cr Faced
3	Disc Thrust Plate	ASTM A276 Type 420
4	Disc Nut	ASTM A276 Type 410
5	Stem	ASTM A182 GR.F6
6	Bonnet	ASTM A216GR.WCB+Stellite Faced
7	Gasket	ASTM A182 GR.F304
8	Thrust Ring	ASTM A276 Type 410
9	Stem Packing	Braided Graphite & Die formed Graphite Ring
10	Lantern Ring	ASTM A276 Type 410
11	Bonnet Retainer	Carbon Steel
12	Gland	ASTM A276 Type 410
13	Gland Flange	ASTM A216 GR.WCB
14	Eye Bolt Pins	Carbon Steel
15	Gland Eye Bolts	ASTM A193 GR.B7
16	Eye Bolt Nuts	ASTM A194 GR.2H
17	Yoke	ASTM A216 GR.WCB
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon steel
20	Handwheel	Ductile Iron
21	Washer	Carbon steel
22	Handwheel Nut	ASTM A194 GR.2H



Dimensions and Weights		CALSS 900						CALSS 1500						CALSS 2500					
		2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"
SIZE	in	50	65	80	100	150	200	50	65	80	100	150	200	50	65	80	100	150	200
L/L1	mm	14.50	16.50	15.00	18.00	24.00	29.00	14.50	16.50	18.50	21.50	27.75	32.75	17.75	20.00	22.75	26.50	36.00	40.25
	mm	368	419	381	457	610	737	368	419	470	546	705	832	451	508	578	673	914	1022
L2	in	14.62	16.62	15.12	18.12	24.12	29.12	14.62	16.62	18.62	21.62	28.00	33.13	17.87	20.25	23.00	26.88	36.50	40.87
	mm	371	422	384	460	613	740	371	422	473	549	711	841	454	514	584	683	927	1038
H	in	24.41	25.40	28.50	33.40	48.23	53.15	24.41	25.40	32.68	33.86	48.50	70.24	24.41	30.63	34.84	51.10	53.74	83.46
	mm	620	645	724	848	1225	1350	620	645	830	860	1232	1784	620	778	885	1298	1365	2120
W	in	14	14	18	20	24	24	14	14	20	22	24	24	16	20	22	24	24	24
	mm	350	350	450	500	610	610	350	350	500	560	610	610	400	500	560	610	610	610
Weight RF	kg	62	86	86	140	380	948	62	86	112	158	765	1494	80	115	152	358	965	2095

Pressure Seal Swing Check Valve Class 900-2500



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Disc Washer	ASTM A276 Type 410
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Hinge	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6
9	Bearing Bracket	ASTM A216 GR.WCB
10	Spring Washer	Carbon Steel
11	Hex Bolt	Carbon Steel
12	Bonnet	ASTM A216 GR.WCB
13	Gasket	ASTM A182 GR.F304
14	Thrust Ring	ASTM A 276 Type 410
15	Separate Ring	ASTM A 276 Type410
16	Cover	ASTM A216 GR.WCB
17	Cover Bolt	ASTM A193 GR.B7
18	Cover Bolt Nut	ASTM A194 GR.2H
19	Eye Bolt	Carbon steel

FEATURES

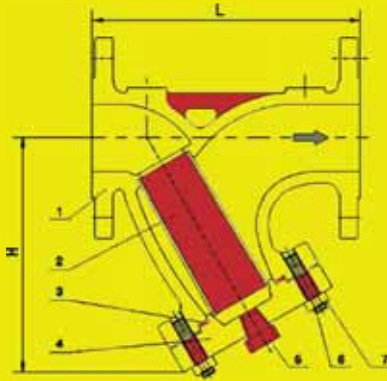
Pressure Seal
Swing Type Disc
Type 1 Standard
Type 2 Optional
With Eye Bolt
By Pass On Request
Lever & Wight Optional

SPECIFICATIONS

Design	ASME B16.34
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

Dimensions and Weights		CALSS 900						CALSS 1500						CALSS 2500					
		2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"
SIZE	in	50	65	80	100	150	200	50	65	80	100	150	200	50	65	80	100	150	200
L/L1	mm	14.50	16.50	15.00	18.00	24.00	29.00	14.50	16.50	18.50	21.50	27.75	32.75	17.75	20.00	22.75	26.50	36.00	40.25
	mm	368	419	381	457	610	737	368	419	470	546	705	832	451	508	578	673	914	1022
L2	in	14.62	16.62	15.12	18.12	24.12	29.12	14.62	16.62	18.62	21.62	28.00	33.13	17.87	20.25	23.00	26.88	36.50	40.87
	mm	371	422	384	460	613	740	371	422	473	549	711	841	454	514	584	683	927	1038
H	in	11.65	11.81	11.81	12.87	17.36	19.76	11.65	11.81	13.43	16.22	20.12	26.77	11.65	11.81	13.43	16.22	20.12	26.77
	mm	296	300	300	327	441	502	296	300	341	412	511	680	296	300	341	412	511	680
Weight BW	kg	50	77	68	115	230	387	50	77	115	190	452	845	110	190	260	535	1110	2980

Cast Steel Y-strainer Class 150-600



SPECIFICATIONS

Design	ASME B16.34
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
Test	API 598

STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Screen	ASTM A276 Type 304
3	Gasket	304+Graphite
4	Cover	ASTM A216 GR.WCB
5	Plug	ASTM A105
6	Cover Bolt	ASTM A193 GR.B7
7	Cover Bolt Nut	ASTM A194 GR.2H

Stem Data & Operation Torques

Gate Valve

CLASS	ITEM	VALVE SIZE															
		2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"
150	Stem Thread O.D.	3/4"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/4"	2 1/2"	2 3/4"	3"
	Thread Per Inch	5	5	5	5	5	4	4	4	3	3	3	3	3	3	3	2
	Pitch(in)	0.2	0.2	0.5	0.2	0.2	0.25	0.25	0.25	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.5
	Tums to Open	13	16	18	24	34	36	44	52	44	53	58	64	75	88	94	74
	Torque(N.m)	16	18	24	38	76	111	182	269	325	435	565	748	1256	1587	1935	3239
300	Stem Thread O.D.	3/4"	3/4"	7/8"	1"	1 1/4"	1 3/8"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/8"	2 1/8"	2 3/4"	2 3/4"	2 7/8"
	Thread Per Inch	5	5	5	5	4	4	4	3	3	3	3	3	3	3	2	
	Pitch(in)	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.5	
	Tums to Open	14	16	18	24	26	36	44	40	45	53	58	64	76	88	94	
	Torque(N.m)	23	26	35	55	159	291	458	661	810	1088	1430	1778	2823	4115	5653	
600	Stem Thread O.D.	3/4"	7/8"	1"	1 1/8"	1 1/2"	1 5/8"	1 7/8"	2"	2 1/4"	2 3/8"	2 1/2"	2 3/4"	3"			
	Thread Per Inch	5	5	5	5	4	3	3	3	3	3	3	3	2			
	Pitch(in)	0.2	0.2	0.2	0.2	0.25	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.5			
	Tums to Open	14	16	18	24	27	27	33	40	45	53	58	64	51			
	Torque(N.m)	35	47	70	122	406	641	1023	1508	2098	2816	3038	3981	6896			
900	Stem Thread O.D.	3/4"	1 1/8"	1 1/8"	1 1/4"	1 5/8"	1 7/8"	2 1/8"	2 1/4"								
	Thread Per Inch	5	5	5	4	3	3	3	3								
	Pitch(in)	0.2	0.2	0.2	0.25	0.333	0.333	0.333	0.333								
	Tums to Open	14	16	18	21	22	28	34	40								
	Torque(N.m)	80	90	95	159	569	978	1728	2601								
1500	Stem Thread O.D.	3/4"	1 1/8"	1 1/4"	1 3/8"	1 3/4"	2 1/8"	2 1/2"	2 3/4"								
	Thread Per Inch	5	5	4	4	3	3	3	3								
	Pitch(in)	0.2	0.2	0.2	0.25	0.333	0.333	0.333	0.333								
	Tums to Open	14	16	16	22	22	28	34	40								
	Torque(N.m)	117	172	224	349	1009	2025	3259	4437								
2500	Stem Thread O.D.	3/4"	1 1/8"	1 1/4"	1 3/8"	1 7/8"	2 3/8"	2 7/8"	3 1/4"								
	Thread Per Inch	5	5	4	4	3	3	2	2								
	Pitch(in)	0.2	0.2	0.2	0.25	0.333	0.333	0.333	0.333								
	Tums to Open	15	17	17	22	28	28	34	40								
	Torque(N.m)	165	224	281	559	1407	2913	5748	8332								

Globe Valve

CLASS	ITEM	VALVE SIZE							
		2"	2.5"	3"	4"	6"	8"	10"	12"
150	Stem Thread O.D.	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 5/8"
	Thread Per Inch	5	5	5	5	4	4	4	3
	Pitch(in)	0.2	0.2	0.2	0.2	0.25	0.25	0.25	0.333
	Tums to Open	4	7	5	8	7	9	10	7
	Torque(N.m)	47	66	84	157	239	326	620	1198
300	Stem Thread O.D.	3/4"	7/8"	1"	1 1/8"	1 3/8"	1 1/2"	1 1/2"	1 3/4"
	Thread Per Inch	5	5	5	5	4	4	4	3
	Pitch(in)	0.2	0.2	0.2	0.2	0.25	0.25	0.333	0.333
	Tums to Open	4	8	7	8	7	9	9	9
	Torque(N.m)	62	85	118	218	727	1309	2160	3100
600	Stem Thread O.D.	7/8"	1"	1 1/8"	1 1/4"	1 5/8"	1 3/4"	2"	2 1/8"
	Thread Per Inch	5	5	5	4	3	3	3	3
	Pitch(in)	0.2	0.2	0.2	0.25	0.333	0.333	0.333	0.333
	Tums to Open	8	8	8	8	9	9	9	9
	Torque(N.m)	142	244	316	602	1590	2782	4579	6216
900	Stem Thread O.D.	1 1/8"	1 1/4"	1 1/4"	1 3/8"	1 3/4"	2"		
	Thread Per Inch	5	4	4	4	3	3		
	Pitch(in)	0.2	0.25	0.25	0.25	0.333	0.333		
	Tums to Open	8	7	7	8	9	9		
	Torque(N.m)	285	412	528	1063	1792	3439		
1500	Stem Thread O.D.	1 1/8"	1 1/4"	1 3/8"	1 1/2"	2"	2 1/4"		
	Thread Per Inch	5	4	4	4	3	3		
	Pitch(in)	0.2	0.25	0.2	0.25	0.333	0.333		
	Tums to Open	8	7	7	8	9	9		
	Torque(N.m)	352	772	876	1816	3868	5011		
2500	Stem Thread O.D.	1 1/4"	1 1/2"	1 5/8"	1 3/4"	2"	2 1/2"		
	Thread Per Inch	4	4	3	3	3	3		
	Pitch(in)	0.25	0.25	0.333	0.333	0.333	0.333		
	Tums to Open	7	7	6	6	9	9		
	Torque(N.m)	502	824	959	2062	6530	9682		

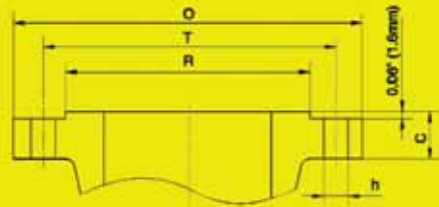
Dimensions and Weights		CALSS 150							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L	in	8.00	8.50	9.50	11.50	16.00	19.50	24.50	27.50
	mm	203	216	241	292	406	495	622	699
H	in	5.71	7.20	8.11	8.98	12.95	17.32	19.96	23.39
	mm	145	183	206	228	329	440	507	594
Weight	kg	12	18	21	32	48	105	169	215

Dimensions and Weights		CALSS 300							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L	in	10.50	11.50	12.50	14.00	17.50	22.00	24.50	28.00
	mm	267	292	318	356	445	559	622	711
H	in	6.70	7.28	9.25	11.42	14.76	17.72	22.64	26.18
	mm	170	185	235	290	375	450	575	665
Weight	kg	15	18	35	51	92	182	285	307

Dimensions and Weights		CALSS 600							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L	in	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00
	mm	292	330	356	432	559	660	787	838
H	in	7.28	7.87	9.84	11.81	16.34	19.29	23.43	26.77
	mm	185	200	250	300	415	490	595	680
Weight	kg	35	40	48	90	220	360	500	781

Steel End Flange Dimensions Class 150-300 ASME B16.5/B16.47

CLASS 150 300 RF



CLASS	SIZE		O		R		C		T		h		Bolt	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	QTY.	Diameter
150	2	50	6.00	152	3.62	92	0.62	16	4.75	120.5	0.75	19	4	5/8
	2.5	65	7.00	178	4.12	105	0.69	18	5.50	139.5	0.75	19	4	5/8
	3	80	7.50	190	5.00	127	0.75	19	6.00	152.5	0.75	19	4	5/8
	4	100	9.00	229	6.19	157	0.94	24	7.50	190.5	0.75	19	8	5/8
	6	150	11.00	279	8.50	216	1.00	26	9.50	241.5	0.88	22	8	3/4
	8	200	13.50	343	10.62	270	1.12	29	11.75	298.5	0.88	22	8	3/4
	10	250	16.00	406	12.75	324	1.19	31	14.25	362	1.00	25	12	7/8
	12	300	19.00	483	15.00	381	1.25	32	17.00	432	1.00	25	12	7/8
	14	350	21.00	533	16.25	413	1.38	35	18.75	476	1.12	29	12	1
	16	400	23.50	597	18.50	470	1.44	37	21.25	540	1.12	29	16	1
	18	450	25.00	635	21.00	533	1.56	40	22.75	578	1.25	32	16	1 1/8
	20	500	27.50	699	23.00	584	1.69	43	25.00	635	1.25	32	20	1 1/8
	24	600	32.00	813	27.25	692	1.88	48	29.50	749.5	1.38	35	20	1 1/4
	28	700	36.50	927	31.50	800	2.81	72	34.00	963.5	1.38	35	28	1 1/4
	30	750	38.75	984	33.75	857	2.94	75	36.00	914.5	1.38	35	28	1 1/4
300	32	800	41.75	1060	36.00	914	3.19	81	38.50	978	1.62	41	28	1 1/2
	36	900	46.00	1168	40.25	1022	3.56	91	42.75	1086	1.62	41	32	1 1/2
	2	50	6.50	165	3.62	92	0.88	23	5.00	127	0.75	19	8	5/8
	2.5	65	7.50	190	4.12	105	1.00	26	5.88	179	0.88	22	8	3/4
	3	80	8.25	210	5.00	127	1.12	29	6.62	168.5	0.88	22	8	3/4
	4	100	10.00	254	6.19	157	1.25	32	7.88	200	0.88	22	8	3/4
	6	150	12.50	318	8.50	216	1.44	37	10.62	270	0.88	22	12	3/4
	8	200	15.00	381	10.62	270	1.62	42	13.00	330	1.00	25	12	7/8
	10	250	17.50	445	12.75	324	1.88	48	15.25	387.5	1.12	29	16	1
	12	300	20.50	521	15.00	381	2.00	51	17.75	451	1.25	32	16	1 1/8
	14	350	23.00	584	16.25	413	2.12	54	20.25	514.5	1.25	32	20	1 1/8
	16	400	25.50	648	18.50	470	2.25	58	22.50	571.5	1.38	35	20	1 1/4
	18	450	28.00	711	21.00	533	2.38	61	24.75	628.5	1.38	35	24	1 1/4
	20	500	30.50	775	23.00	584	2.50	64	27.00	686	1.38	35	24	1 1/4
	24	600	36.00	914	27.25	692	2.75	70	32.00	813	1.62	41	24	1 1/2
	28	700	40.75	1035	31.50	800	3.38	86	37.00	940	1.75	45	28	1 5/8
	30	750	43.00	1092	33.75	857	3.62	92	39.25	997	1.88	48	28	1 3/4

End Flange Dimensions: Size 2" -24" to ASME B16.5, Size 28" -36" to ASME B16.47 A.

Tolerances: Unit inch

Thickness C: NPS ≤ 18" +0.12, -0

NPS ≥ 20" +0.19, -0

Drilling and Facing: Bolt Circle Diameter h: ±0.06

Center to Center of Adjacent Bolt Holes: ±0.03

Eccentricity Between Bolt Circle Diameter and Machined Facing Diameters:

NPS ≤ 2 1/2" ±0.03

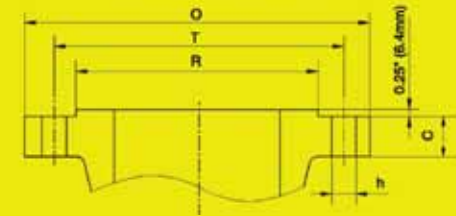
NPS ≤ 2 1/2" ±0.06

Outside Diameter R: 0.06 Raised Face: ±0.03

0.25 Raised Face: ±0.02

Steel End Flange Dimensions Class 600-2500 ASME B16.5

CLASS 600-2500 RF



CLASS	SIZE		O		R		C		T		h		Bolt	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	QTY.	Diameter
600	2	50	6.50	165	3.62	92	1.00	26	5.00	127	0.75	19	8	5/8
	2.5	65	7.50	190	4.12	105	1.12	29	5.88	149	0.88	22	8	3/4
	3	80	8.25	210	5.00	127	1.25	32	6.62	168	0.88	22	8	3/4
	4	100	10.75	273	6.19	157	1.50	38	8.50	216	1.00	25	12	7/8
	6	150	14.00	356	8.50	216	1.88	48	11.50	292	1.12	29	12	1
	8	200	16.50	419	10.62	270	2.19	56	13.75	349	1.25	32	12	1 1/8
	10	250	20.00	508	12.75	324	2.50	64	17.00	432	1.38	35	16	1 1/4
	12	300	22.00	559	15.00	381	2.62	67	19.25	489	1.38	35	20	1 1/4
	14	350	23.75	603	16.25	413	2.75	70	20.75	527	1.50	38	20	1 3/8
	16	400	27.00	686	18.50	470	3.00	77	23.75	603	1.62	41	20	1 1/2
	18	450	29.25	743	21.00	533	3.25	83	25.75	654	1.75	44	20	1 5/8
	20	500	32.00	813	23.00	584	3.50	89	28.50	724	1.75	44	24	1 5/8
	24	600	37.00	940	27.25	692	4.00	102	33.00	838	2.00	51	24	1 7/8
	2	50	8.50	216	3.62	92	1.50	38.5	6.50	165.1	1.00	26	8	7/8
	2.5	65	9.62	244	4.12	105	1.62	41.5	7.50	190.5	1.12	29	8	1
	3	80	9.50	241	5.00	127	1.50	38.5	7.50	190.5	1.00	26	8	7/8
900	4	100	11.50	292	6.19	157	1.75	44.5	9.25	234.9	1.25	32	8	1 1/8
	6	150	15.00	381	8.50	216	2.19	56.0	12.50	317.5	1.25	32	12	1 1/8
	8	200	18.50	470	10.62	270	2.50	63.5	15.50	393.7	1.50	39	12	1 3/8
	10	250	21.50	545	12.75	324	2.75	70.0	18.50	469.9	1.50	39	16	1 3/8
	12	300	24.00	610	15.00	381	3.12	79.5	21.00	533.4	1.50	39	20	1 3/8
	14	350	25.25	640	16.25	413	3.38	86.0	22.00	558.8	1.62	42	20	1 1/2
	16	400	27.75	705	18.50	470	3.50	89.0	24.25	615.9	1.75	45	20	1 5/8
	18	450	31.00	785	21.00	533	4.00	102.0	27.00	685.8	2.00	51	20	1 7/8
	20	500	33.75	855	23.00	584	4.25	108.0	29.50	749.3	2.12	54	20	2
	24	600	41.00	1040	27.25	692	5.50	140.0	35.50	901.7	2.62	67	20	2 1/2
	2	50	8.50	216	3.62	92	1.50	38.5	6.50	165.1	1.00	26	8	1
	2.5	65	9.62	244	4.12	105	1.62	41.5	7.50	190.5	1.12	29	8	1 1/8
	3	80	10.50	267	5.00	127	1.88	48.5	8.00	203.2	1.25	32	8	1 1/4
	4	100	12.25	311	6.19	157	2.12	54.0	9.50	241.3	1.38	35	8	1 3/8
	6	150	15.50	394	8.50	216	3.25	83.0	12.50	317.5	1.50	39	12	1 1/2
	8	200	19.00	483	10.62	270	3.62	92.9	15.50	393.7	1.75	45	12	1 3/4
1500	10	250	23.00	585	12.75	324	4.25	108.0	19.00	482.5	2.00	51	12	2
	12	300	26.50	675	15.00	381	4.88	124.0	22.50	571.5	2.12	54	16	2 1/8
	14	350	29.50	750	16.25	413	5.25	133.5	25.00	635.0	2.38	61	16	2 3/8
	16	400	32.50	825	18.50	470	5.75	146.5	27.75	706.2	2.62	67	16	2 5/8
	18	450	36.00	915	21.00	533	6.38	162.0	30.50	774.5	2.88	74	16	2 7/8
	20	500	38.75	985	23.00	584	7.00	178.0	32.75	834.5	3.12	80	16	3 1/8
	24	600	46.00	1170	27.25	692	8.00	203.5	39.00	990.5	3.62	93	16	3 5/8
	2	50	9.25	235	3.62	92	2.00	51.0	6.75	171.5	1.12	29	8	1
	2.5	65	10.50	267	4.12	105	2.25	57.5	7.75	196.5	1.25	32	8	1 1/8
	3	80	12.00	305	5.00	127	2.62	67.0	9.00	228.5	1.38	35	8	1 1/4
	4	100	14.00	356	6.19	157	3.00	76.5	10.75	273.0	1.62	42	8	1 1/2
	6	150	19.00	483	8.50	216	4.25	108.0	14.50	368.0	2.12	54	8	2
	8	200	21.75	550	10.62	270	5.00	127.0	17.25	440.0	2.12	54	12	2
	10	250	26.50	675	12.75	324	6.50	165.5	21.50	546.5	2.62	67	12	2 1/2
	12	300	30.00	760	15.00	381	7.25	184.5	24.38	619.0	2.88	74	12	2 3/4

End Flange Dimensions: ASME B16.5

Tolerances: the Same as Class 150 3

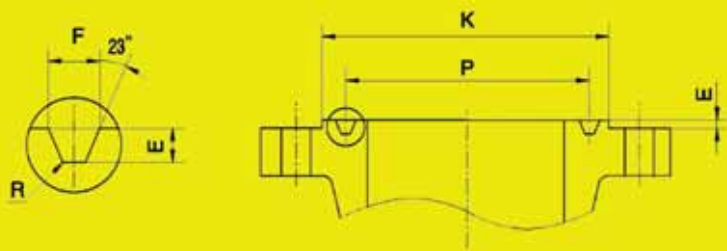
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Dimensions of Ring Joint Facing Class 150-2500 ASME B16.5/B16.47

CLASS 150-2500 RTJ



CLASS	SIZE	Ring No	P		E		F		R		K		
			in	mm	in	mm	in	mm	in	mm	in	mm	
150	2	50	R22	3.250	82.55	0.250	6.35	0.344	8.74	0.03	0.8	4.00	102
	2.5	65	R25	4.000	101.60	0.250	6.35	0.344	8.74	0.03	0.8	4.75	121
	3	80	R29	4.500	114.30	0.250	6.35	0.344	8.74	0.03	0.8	5.25	133
	4	100	R36	5.875	149.22	0.250	6.35	0.344	8.74	0.03	0.8	6.75	171
	6	150	R43	7.625	193.68	0.250	6.35	0.344	8.74	0.03	0.8	8.62	219
	8	200	R48	9.750	247.65	0.250	6.35	0.344	8.74	0.03	0.8	10.75	273
	10	250	R52	12.000	304.80	0.250	6.35	0.344	8.74	0.03	0.8	13.00	330
	12	300	R56	15.000	381.00	0.250	6.35	0.344	8.74	0.03	0.8	16.00	406
	14	350	R59	15.625	398.88	0.250	6.35	0.344	8.74	0.03	0.8	16.75	425
	16	400	R64	17.875	454.02	0.250	6.35	0.344	8.74	0.03	0.8	19.00	483
	18	450	R68	20.375	517.52	0.250	6.35	0.344	8.74	0.03	0.8	21.50	546
	20	500	R72	22.000	558.80	0.250	6.35	0.344	8.74	0.03	0.8	23.50	597
	24	600	R76	26.500	673.10	0.250	6.35	0.344	8.74	0.03	0.8	28.00	711
	28	700	R94	31.500	800.10	0.500	12.7	0.781	19.844	0.06	1.5	33.88	861
	30	750	R95	33.750	857.25	0.500	12.7	0.781	19.844	0.06	1.5	36.12	917
	32	800	R96	36.000	914.40	0.562	14.3	0.906	23.019	0.09	2.3	38.75	984
	300	36	900	R98	40.250	1022.35	0.562	14.3	0.906	23.019	0.09	2.3	40.75
2		50	R26	3.250	82.55	0.312	7.92	0.469	11.91	0.03	0.8	4.25	108
2.5		65	R26	4.000	101.60	0.312	7.92	0.469	11.91	0.03	0.8	5.00	127
3		80	R31	4.875	123.82	0.312	7.92	0.469	11.91	0.03	0.8	5.75	146
4		100	R37	5.875	149.22	0.312	7.92	0.469	11.91	0.03	0.8	6.88	175
6		150	R45	8.312	211.13	0.312	7.92	0.469	11.91	0.03	0.8	9.50	214
8		200	R49	10.625	269.88	0.312	7.92	0.469	11.91	0.03	0.8	11.88	302
10		250	R53	12.750	323.85	0.312	7.92	0.469	11.91	0.03	0.8	14.00	356
12		300	R57	15.000	381.00	0.312	7.92	0.469	11.91	0.03	0.8	16.25	413
14		350	R61	16.500	419.10	0.312	7.92	0.469	11.91	0.03	0.8	18.00	457
16		400	R65	18.500	469.90	0.312	7.92	0.469	11.91	0.03	0.8	20.00	508
18		450	R69	21.000	533.40	0.312	7.92	0.469	11.91	0.03	0.8	22.62	575
20		500	R73	23.000	584.20	0.375	9.52	0.531	13.49	0.06	1.5	25.00	635
24		600	R77	27.250	692.15	0.438	11.13	0.656	16.66	0.06	1.5	29.50	749
28		700	R94	31.500	800.10	0.500	12.7	0.781	19.84	0.06	1.5	33.88	861
30	750	R95	33.750	857.25	0.500	12.7	0.781	19.84	0.06	1.5	36.12	917	

CLASS	SIZE		Ring No	P		E		F		R		K	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
900	2	50	R24 3.750	95.25	0.312	7.92	0.469	11.91	0.03	0.8	4.88	124	
	2.5	65	R27 4.250	107.95	0.312	7.92	0.469	11.91	0.03	0.8	5.38	137	
	3	80	R31 4.875	123.82	0.312	7.92	0.469	11.91	0.03	0.8	6.12	156	
	4	100	R37 5.875	149.22	0.312	7.92	0.469	11.91	0.03	0.8	7.12	181	
	6	150	R45 8.312	211.12	0.312	7.92	0.469	11.91	0.03	0.8	9.50	241	
	8	200	R49 10.625	269.88	0.312	7.92	0.469	11.91	0.03	0.8	12.12	308	
	10	250	R53 12.750	323.85	0.312	7.92	0.469	11.91	0.03	0.8	14.25	362	
	12	300	R57 15.000	381.00	0.312	7.92	0.469	11.91	0.03	0.8	16.50	419	
	14	350	R62 16.500	419.10	0.438	11.13	0.656	16.66	0.06	1.5	18.38	467	
	16	400	R66 18.500	469.90	0.438	11.13	0.656	16.66	0.06	1.5	20.62	524	
	18	450	R70 21.000	534.00	0.500	12.70	0.781	19.84	0.06	1.5	23.38	594	
	20	500	R74 23.000	584.20	0.500	12.70	0.781	19.84	0.06	1.5	25.50	648	
1500	24	600	R78 27.250	692.15	0.625	15.88	1.062	26.97	0.09	2.3	30.38	772	
	2	50	R27 3.750	95.25	0.312	7.92	0.469	11.91	0.03	0.8	4.88	124	
	2.5	65	R27 4.250	107.95	0.312	7.92	0.469	11.91	0.03	0.8	5.38	137	
	3	80	R35 4.875	123.82	0.312	7.92	0.469	11.91	0.03	0.8	6.62	168	
	4	100	R39 5.875	149.22	0.312	7.92	0.469	11.91	0.03	0.8	7.62	194	
	6	150	R46 8.312	211.12	0.375	9.52	0.531	13.49	0.06	1.5	9.75	248	
	8	200	R50 10.625	269.88	0.438	11.13	0.656	16.66	0.06	1.5	12.50	318	
	10	250	R54 12.750	323.85	0.438	11.13	0.656	16.66	0.06	1.5	14.62	371	
	12	300	R58 15.000	381.00	0.562	14.27	0.906	23.01	0.06	2.3	17.25	438	
	14	350	R63 16.500	419.10	0.625	15.88	1.062	26.97	0.09	2.3	19.25	489	
	16	400	R67 18.500	469.90	0.688	17.48	1.188	30.18	0.09	2.3	21.50	546	
	18	450	R71 21.000	534.00	0.688	17.48	1.188	30.18	0.09	2.3	24.12	613	
2500	20	500	R75 23.000	584.20	0.688	17.48	1.312	33.32	0.09	2.3	26.50	673	
	24	600	R79 27.250	692.15	0.812	20.62	1.438	36.53	0.09	2.3	31.25	794	
	2	50	R26 4.000	101.60	0.312	7.92	0.469	11.91	0.03	0.8	5.25	133	
	2.5	65	R28 4.375	111.12	0.375	9.52	0.531	13.49	0.03	0.8	5.88	149	
	3	80	R32 5.000	127.00	0.375	9.52	0.531	13.49	0.06	1.5	6.62	168	
	4	100	R38 6.188	157.18	0.438	11.13	0.656	16.66	0.06	1.5	8.00	203	
	6	150	R47 9.000	228.60	0.500	12.70	0.781	19.84	0.06	1.5	11.00	279	
	8	200	R51 11.000	279.40	0.562	14.27	0.906	23.01	0.06	1.5	13.38	340	
	10	250	R55 13.500	342.90	0.688	17.48	1.188	30.18	0.09	2.3	16.75	425	
	12	300	R60 16.000	406.40	0.688	17.48	1.312	33.32	0.09	2.3	19.50	495	

End Flange Dimensions: Size2 " -24 " to ASME B16.5,Size 28 " -36 " to ASME B16.47 A.

Tolerances: Unit inch

Depth E: +0.016,-0

Width F: ±0.008

Pitch Diameter P: ±0.005

Radius at Bottom R: R≤0.06 " ±0.03,0

R≥0.06±0.03

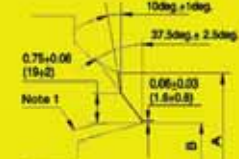
Angle 23 Deg: ±0.5Deg

Buttwelding End Dimensions ASME B16.25



Wall Thicknesses Not Over 0.88in(22mm)
Welding End Detail for joint Without Backing Ring

Note 1 Internal surface may be as
formed or machined for dimension
B at root face. Contour within the
envelope shall be in accordance with section



Wall Thicknesses Over 0.88in(22mm)
Welding End Detail for joint Without Backing Ring

Nominal Pipe Size		Schedule No. [Note(1)]	O.D.at Welding Ends				B		C[Note(3)]		T		
			Wrought or Fabricated Components,A[Note(1)]		Cast Steel Valves, A[Note(2)]								
DN	NPS		mm	in	mm	in	mm	In	mm	mm	mm	mm	
65	2.5	40	43.0	2.88	75	2.96	62.5	2.469	62.93	2.479	5.16	0.203	
		80					59	2.323	59.69	2.341	7.01	0.276	
		160					54	2.125	55.28	2.178	9.53	0.375	
		XXS					45	1.771	47.43	1.868	14.02	0.552	
80	3	40	88.9	3.50	91	3.95	78	3.068	78.25	3.081	5.49	0.126	
		80					73.5	2.900	74.53	2.934	7.62	0.300	
		160					66.5	2.625	68.38	2.692	11.13	0.438	
		XXS					58.5	2.300	61.19	2.409	15.24	0.600	
90	3.5	40	101.6	4.00	105	4.12	90	3.548	90.52	3.564	5.74	0.226	
		80					85.5	3.364	86.42	3.402	8.08	0.318	
100	4	40	114.3	4.50	117	4.62	102	4.026	102.73	4.044	6.02	0.237	
		80					97	3.826	98.28	3.869	8.56	0.337	
		120					92	3.624	93.78	3.692	11.13	0.438	
		160					87.5	3.428	89.65	3.530	13.49	0.531	
XXS					80	3.152	83.30	3.279	17.12	0.674			
125	5	40	141.3	5.56	144	5.69	128	5.047	128.80	5.070	6.55	0.258	
		80					122	1.813	123.58	4.866	9.53	0.375	
		120					116	4.563	118.04	4.647	12.70	0.500	
		160					109.5	4.313	112.47	4.428	15.88	0.625	
		XXS					103	4.063	106.92	4.209	19.05	0.750	
150	6	40	168.3	6.62	172	6.78	154	6.065	154.82	6.094	7.11	0.280	
		80					145.5	5.761	148.06	5.828	10.97	0.432	
		120					140	5.501	142.29	5.600	14.27	0.562	
		160					132	5.187	135.31	5.326	18.26	0.719	
		XXS					124.5	4.897	128.85	5.072	21.95	0.864	
200	8	40	219.1	8.62	223	8.78	203	7.981	203.75	8.020	8.18	0.322	
		60					198.5	7.813	200.02	7.783	10.31	0.406	
		80					193.5	7.625	195.84	7.709	12.70	0.500	
		100					189	7.437	191.65	7.544	15.09	0.594	
		120					182.5	7.187	186.11	7.326	18.26	0.719	
		140					178	7.001	181.98	7.163	20.62	0.812	
XXS						174.5	6.875	179.16	7.053	22.23	0.875		
	160					173	6.813	177.79	6.998	23.01	0.906		
	250	10	40	273.0	10.75	278	10.94	254.5	10.020	255.74	10.070	9.27	0.365
			60					247.5	9.75	249.74	9.834	12.70	0.500
80							243	9.652	245.55	9.670	15.09	0.594	
100							236.5	9.312	240.01	9.451	18.26	0.719	
300	12	120					230	9.062	234.44	9.232	21.44	0.844	
		140					222	8.750	227.51	8.959	25.40	1.000	
		160					216	8.500	221.95	8.740	28.58	1.125	
		STD	323.8	12.75	329	12.97	305	12.000	308.08	12.053	9.53	0.375	
		40					303	11.938	304.72	11.999	10.31	0.406	
		XS					298.5	11.750	300.54	11.834	12.70	0.500	
		60					295	11.626	297.79	11.725	14.27	0.562	
		80					289	11.374	292.17	11.505	17.48	0.688	
		100					281	11.062	285.24	11.232	21.44	0.844	
		120					273	10.750	278.31	10.959	25.40	1.000	
		140					266.5	10.500	272.75	10.740	28.58	1.125	
		160					257	10.126	264.45	10.413	33.32	1.312	
350	14	STD	355.6	14.00	362	14.25	336.5	13.250	337.88	13.303	9.53	0.375	
		40					333.5	13.124	335.08	13.192	11.13	0.438	
		X3					330	13.000	332.34	13.084	12.70	0.500	
		60					325.5	12.812	328.15	12.920	15.09	0.594	
		80					317.5	12.500	321.22	12.646	19.05	0.750	
		100					308	12.124	312.86	12.318	23.83	0.938	
		120					300	11.812	305.93	12.044	27.79	1.094	
		140					292	11.500	299.00	11.771	31.75	1.250	
160					284	11.188	293.07	11.499	35.71	1.406			

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Materials															
Material	CHEMICAL COMPOSITIONS(%) max										MECHANICAL PROPERTIES				
	C	Mn	P	S	Si	Ni	Cr	Mo	Other	Tensile, min MPa(ksi)	Yield, min MPa(ksi)	Elongation min (%)	Reduction of Area min(%)	Hardness Brinell	
WCB	0.30	1.00	0.04	0.045	0.60	0.50	0.50	0.20	Cu 0.30 V0.03	485-655 (70-95)	250(36)	22	35		
WC1	0.25	0.50-0.80	0.04	0.045	0.60	0.50	0.35	0.45-0.65	Cu 0.50 V0.10	450-620 (65-90)	240(35)	24	35		
WC6	0.05-0.20	0.50-0.80	0.04	0.045	0.60	0.50	1.00-1.50	0.45-0.65	Cu 0.50 V0.10	485-655 (70-95)	275(40)	20	35		
WC9	0.05-0.18	0.40-0.70	0.04	0.045	0.60	0.50	2.00-2.75	0.90-1.20	Cu 0.50 V0.10	485-655 (70-95)	275(40)	20	35		
C5	0.20	0.40-0.70	0.04	0.045	0.75	0.50	4.00-6.50	0.45-0.65	Cu 0.50 V0.10	620-795 (90-115)	415(60)	18	35		
C12	0.20	0.35-0.65	0.04	0.045	1.00	0.50	8.00-10.00	0.90-1.20	Cu 0.50 V0.10	620-795 (90-115)	415(60)	18	35		
CA15	0.15	1.00	0.04	0.040	1.50	1.00	11.50-14.00	0.50		620-795 (90-115)	450(65)	18	30		
LCB	0.30	1.00	0.04	0.045	0.60	0.50	0.50	0.20	Cu 0.30 V0.03	450-650 (65.0-90.0)	240(35.0)	24	35	J(lbf • ft) 18(13)	
LCC	0.25	1.20	0.04	0.045	0.60	0.50	0.50	0.20	Cu 0.30 V0.03	485-655 (70.0-95.0)	275(40.0)	22	35	J(lbf • ft) 20(15)	
LC2	0.25	0.50-0.80	0.04	0.045	0.60	2.0-3.0				485-655 (70.0-95.0)	275(40.0)	24	35	J(lbf • ft) 20(15)	
LC3	0.15	0.50-0.80	0.04	0.040	0.60	3.0-4.0				485-655 (70.0-95.0)	275(40.0)	24	35	J(lbf • ft) 20(15)	
CF8	0.08	1.50	0.040	0.040	2.00	8.0-11.0	18.0-21.0			485(70)	205(30)	35			
CF8M	0.08	1.50	0.040	0.040	1.50	9.0-12.0	18.0-21.0	2.0-3.0		485(70)	205(30)	30			
CF3	0.03	1.50	0.040	0.040	2.00	8.0-12.0	17.0-21.0	0.50		485(70)	205(30)	35			
CF3M	0.03	0.50	0.040	0.040	1.50	9.0-12.0	17.0-21.0	2.0-3.0		485(70)	205(30)	30			
CF8C	0.08	1.50	0.040	0.040	2.00	27.5-30.5	18.0-21.0	0.50	No ≥8xC≤1	485(70)	205(30)	30			
CN7M	0.07	1.50	0.040	0.040	1.50	0.40	19.0-22.0	2.0-3.0	Cu0.40 V0.03 Nb0.02	450(62)	170(25)	35			
A105	0.35	0.60-1.05	0.040	0.050	0.35		0.30	0.12		485(70)	250(36)	22	30	≤187	
F1	0.28	0.60-0.90	0.045	0.450	0.15-0.35			0.44-0.65		485(70)	275(40)	20	30	143-192	
F5	0.15	0.30-0.60	0.030	0.030	0.50	0.50	4.0-6.0	0.44-0.65		485(70)	275(40)	20	35	143-217	
F11-1	0.05-0.15	0.30-0.60	0.030	0.030	0.50-1.00		1.00-1.50	0.44-0.65		415(60)	205(30)	20	45	121-174	
F22-1	0.05-0.15	0.30-0.60	0.040	0.040	0.50		2.00-2.50	0.87-1.13		415(60)	205(30)	20	35	≤170	
F6A	0.15	1.00	0.040	0.030	1.00	0.50	11.5-13.5			585(85)	380(55)	18	35	167-229	
F304	0.08	2.00	0.040	0.030	1.00	8.0-11.0	18.0-20.0			515(75)	205(30)	30	50		
F304L		2.00	0.040	0.030	1.00	8.0-13.0	18.0-20.0			485(70)	170(70)	30	50		

Materials															
Material	CHEMICAL COMPOSITIONS(%) max									MECHANICAL PROPERTIES					
	C	Mn	P	S	Si	Ni	Cr	Mo	Other	Tensile, min MPa(ksi)	Yield, min MPa(ksi)	Elongation min (%)	Reduction of Area min(%)	Hardness Brinell	
WCB	0.30	1.00	0.04	0.045	0.60	0.50	0.50	0.20	Cu 0.30 V0.03	485-655 (70-95)	250(36)	22	35		
WC1	0.25	0.50-0.80	0.04	0.045	0.60	0.50	0.35	0.45-0.65	Cu 0.50 V0.10	450-620 (65-90)	240(35)	24	35		
WC6	0.05-0.20	0.50-0.80	0.04	0.045	0.60	0.50	1.00-1.50	0.45-0.65	Cu 0.50 V0.10	485-655 (70-95)	275(40)	20	35		
WC9	0.05-0.18	0.40-0.70	0.04	0.045	0.60	0.50	2.00-2.75	0.90-1.20	Cu 0.50 V0.10	485-655 (70-95)	275(40)	20	35		
C5	0.20	0.40-0.70	0.04	0.045	0.75	0.50	4.00-6.50	0.45-0.65	Cu 0.50 V0.10	620-795 (90-115)	415(60)	18	35		
C12	0.20	0.35-0.65	0.04	0.045	1.00	0.50	8.00-10.00	0.90-1.20	Cu 0.50 V0.10	620-795 (90-115)	415(60)	18	35		
CA15	0.15	1.00	0.04	0.040	1.50	1.00	11.50-14.00	0.50		620-795 (90-115)	450(65)	18	30		
LCB	0.30	1.00	0.04	0.045	0.60	0.50	0.50	0.20	Cu 0.30 V0.03	450-650 (65.0-90.0)	240(35.0)	24	35	J(lbf • ft) 18(13)	
LCC	0.25	1.20	0.04	0.045	0.60	0.50	0.50	0.20	Cu 0.30 V0.03	485-655 (70.0-95.0)	275(40.0)	22	35	J(lbf • ft) 20(15)	
LC2	0.25	0.50-0.80	0.04	0.045	0.60	2.0-3.0				485-655 (70.0-95.0)	275(40.0)	24	35	J(lbf • ft) 20(15)	
LC3	0.15	0.50-0.80	0.04	0.040	0.60	3.0-4.0				485-655 (70.0-95.0)	275(40.0)	24	35	J(lbf • ft) 20(15)	
CF8	0.08	1.50	0.040	0.040	2.00	8.0-11.0	18.0-21.0			485(70)	205(30)	35			
CF8M	0.08	1.50	0.040	0.040	1.50	9.0-12.0	18.0-21.0	2.0-3.0		485(70)	205(30)	30			
CF3	0.03	1.50	0.040	0.040	2.00	8.0-12.0	17.0-21.0	0.50		485(70)	205(30)	35			
CF3M	0.03	0.50	0.040	0.040	1.50	9.0-12.0	17.0-21.0	2.0-3.0		485(70)	205(30)	30			
CF8C	0.08	1.50	0.040	0.040	2.00	27.5-30.5	18.0-21.0	0.50	No ≥8xC≤1	485(70)	205(30)	30			
CN7M	0.07	1.50	0.040	0.040	1.50	0.40	19.0-22.0	2.0-3.0	Cu0.40 V0.03 Nb0.02	450(62)	170(25)	35			
A105	0.35	0.60-1.05	0.040	0.050	0.35		0.30	0.12		485(70)	250(36)	22	30	≤187	
F1	0.28	0.60-0.90	0.045	0.450	0.15-0.35			0.44-0.65		485(70)	275(40)	20	30	143-192	
F5	0.15	0.30-0.60	0.030	0.030	0.50	0.50	4.0-6.0	0.44-0.65		485(70)	275(40)	20	35	143-217	
F11-1	0.05-0.15	0.30-0.60	0.030	0.030	0.50-1.00		1.00-1.50	0.44-0.65		415(60)	205(30)	20	45	121-174	
F22-1	0.05-0.15	0.30-0.60	0.040	0.040	0.50		2.00-2.50	0.87-1.13		415(60)	205(30)	20	35	≤170	
F6A	0.15	1.00	0.040	0.030	1.00	0.50	11.5-13.5			585(85)	380(55)	18	35	167-229	
F304	0.08	2.00	0.040	0.030	1.00	8.0-11.0	18.0-20.0			515(75)	205(30)	30	50		
F304L		2.00	0.040	0.030	1.00	8.0-13.0	18.0-20.0			485(70)	170(70)	30	50		

[illegible]

Materials

Material	CHEMICAL COMPOSITIONS(%) max										MECHANICAL PROPERTIES				
	C	mn	P	S	Si	Ni	Cr	Mo	Other	Tensile, min MPa(ksi)	Yield, min MPa(ksi)	Elongation min (%)	Reduction of Area min(%)	Hardness Brinell	
F316	0.08	2.00	0.040	0.030	1.00	10.0-14.0	16.0-18.0	2.00-3.00		515(75)	250(30)	30	50		
F316L	0.035	2.00	0.040	0.030	1.00	10.0-15.0	16.0-18.0	2.00-3.00		485(70)	170(25)	30	50		
F321	0.08	2.00	0.040	0.030	1.00	9.0-12.0	≥17.0		To ≥5xC≤0.70	515(75)	205(30)	30	50		
F347	0.08	2.00	0.040	0.030	1.00	9.0-13.0	17.0-20.0		Nb+Ta ≥5xC≤0.70	515(75)	205(30)	30	50		
410	0.15	1.00	0.040	0.030	1.00		11.50-13.50			480(70)	275(40)	20	45		
416	0.15	1.25	0.06	≥0.15	1.00		12.00-14.00							≤262	
420	Over 0.15	1.00	0.040	0.030	1.00		12.00-14.00							≤241	
D-2	3.00	0.70-1.25	0.08		1.50-3.00	18.00-22.00	1.75-2.75			400(58)	207(30)	8.0		139-202	
B7	0.37-0.49	0.65-1.10	0.035	0.040	0.15-0.35		0.75-1.20	0.15-0.25		860(125)	720(105)	16	50		
B7M	0.37-0.49	0.65-1.10	0.035	0.040	0.15-0.35		0.75-1.20	0.15-0.25		690(100)	550(80)	18	50	≤HB235 or HRB 99	
B16	0.36-0.47	0.45-0.70	0.035	0.040	0.15-0.35		0.80-1.15	0.50-0.65	V0.25-0.35	860(125)	725(105)	18	50		
B8	0.08	2.00	0.030	0.030	1.00	8.00-10.50	18.00-20.00			515(75)	205(30)	30	50	≤HB223or HRB 96	
B8M	0.08	2.00	0.030	0.030	1.00	10.00-14.00	16.00-18.00	2.00-3.00		515(75)	205(30)	30	50	≤HB223or HRB 96	
L7	0.38-0.48	0.75-1.00	0.040	0.040	0.15-0.35		0.80-1.10	0.15-0.25		860(125)	725(105)	16	50		
L7M	0.38-0.48	0.75-1.00	0.040	0.040	0.15-0.35		0.80-1.10	0.15-0.25		690(100)	550(80)	18	50	≤HB235 or HRB 99	
B			0.04	0.05						415-690 (60-100)		18		HRB121-212 HRC 69-95	
2H	≥0.40	1.00	0.040	0.050	0.40				Cu0.40 V0.03 Nb0.02					HRB248-352 HRC 24-38	
2HM	≥0.40	1.00	0.040	0.050	0.40									HRB248-352 HRC ≤22	
4	0.40-0.50	0.70-0.90	0.035	0.040	0.15-0.35			0.20-0.30						HRB248-352 HRC 24-38	
7	0.37-0.49	0.65-1.10	0.040	0.040	0.15-0.35		0.75-1.20	0.15-0.25						HRB248-352 HRC 24-38	
7M	0.37-0.49	0.65-1.10	0.040	0.040	0.15-0.35		0.75-1.20	0.15-0.25						HRB248-352 HRC ≤22	
8	0.08	2.00	0.045	0.030	1.00	8.00-10.50	18.0-20.0							HB126-300 HRC 60-105	
8M	0.08	2.00	0.045	0.030	1.00	10.0-14.0	16.0-18.0	2.00-3.00						HB126-300 HRC 60-105	

Forged Steel Gate Valve



Bolted bonnet

Welded bonnet

Pressure seal bonnet

Flanged type

Gate valve Design Construction and Specifications

Gate valves conform to API602, BS5352, and ASME B16.34. Each is tested according to API598, and marking is per MSS SP-25.

Construction:

Full Port or Conventional Port

Outside Screw and Yoke(OS&Y)

Two piece self aligning packing gland

Bolted bonnet with spiral-wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet

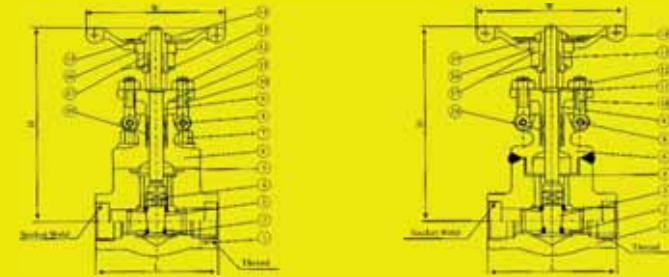
Integral backseat

Socket weld Ends to ASME B16.11

Screwed Ends(NPT) to ANSI/ASME B1.20.1

Flange Ends(RF) to ANSI B16.5

Forged Steel Gate Valve Class 800



Standard Material Specifications

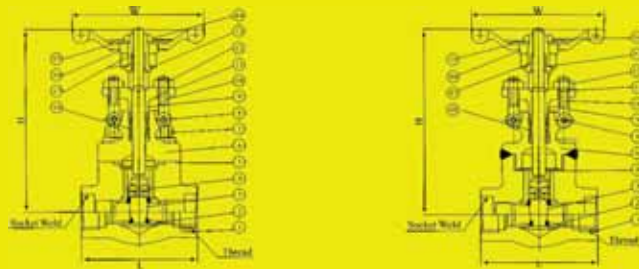
No	Part Name	Asto ASTM		SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 430 & 410	A182 304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite		SS+PTFE	
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420		A182 F304	
9	Gland	A276 410		A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420			
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS			
16	Handwheel	A197			
17	Bearing Gasket	A473 431			
18	Stem Packing	Flexible Graphite		PTFE	
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note: Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS	Couv Full	3/8	1/2	3/4	1	1 1/4	1 1/2	2	/
		/	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L		79	79	92	111	120	120	140	178
H(OPEN)		158	158	169	197	236	246	283	330
W		100	100	100	125	160	160	180	200
Weights	Bolted	2.1	2.0	2.3	4.3	5.9	6.9	11.1	15.2
	Welded	1.8	1.7	2.0	3.8	5.1	6.1	10.2	14.2

Forged Steel Gate Valve Class 900-1500



Standard Material Specifications

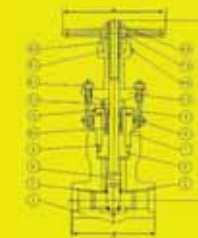
No	Part Name	CS to ASTM	Asto ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 430 & 410	A182 304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite		SS+PTFE	
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420		A182 F304	
9	Gland	A276 410		A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420			
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS			
16	Handwheel	A197			
17	Bearing Gasket	A473 431			
18	Stem Packing	Flexible Graphite		TYPE	
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29℃~425℃	-29℃~550℃	-29℃~180℃	

Note:Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

Dimensions (mm) and Weight (kg)									
NPS	Couv Full	3/8	1/2	3/4	1	1 1/4	1 1/2	2	/
		/	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L		92	111	111	120	120	120	178	210
H(OPEN)		169	197	197	236	246	283	330	354
W		100	125	125	160	160	180	200	240
Weights	Bolted	2.5	4.3	4.2	6.6	6.8	12.5	17.2	23.5
	Welded	2.4	4.2	4.0	6.3	8.7	12.1	17.2	22.0

Forged Steel Pressure-seal Gate Valve Class 900-2500



Standard Material Specifications

No	Part Name	CS to ASTM	Asto ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 430 & 410	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Seat	A105	A182 F304	A182 F304(L)	A182 F316(L)
6	Pressurering	A276 304L		A276 316(L)	
7	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
9	Pin	A276 F420		A182 F304(L)	
10	Stem Packing	Flexible Graphite		PTFE	
11	P.S.Look Nut	A194 2H	A194 4	A194 8	A194 8M
12	Gland	A276 F420		A182 F304	
13	Gland Flange	A216 WCB		A315 Cf8	
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276-410			
16	Retaining Nut	A194 2H	A194 4	A194 8	A194 8M
17	Handwheel	A197			
18	H.W.Look Nut	A194 2H	A194 4	A194 8	A194 8M
19	Oil Cup	Brass			
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29℃~425℃	-29℃~550℃	-29℃~180℃	

Note:Other materials are available upon request. CS= Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS		1/2 "	3/4 "	1 "	1 1/4 "	1 1/2 "	2 "
L	900-1500Lb	140	140	140	178	178	216
	2500Lb	186	186	186	232	232	279
	H(OPEN)	321	321	321	380	414	502
W		160	160	180	200	250	280
Weights	900-1500Lb	11.5	10.8	10.5	19.6	21.0	55.4
	2500Lb	12.3	11.6	10.8	26.0	28.4	60.0

Forged Steel Globe Valve



Bolted bonnet

Welded bonnet

Pressure seal bonnet

Flanged type

Globe valve Design Construction and Specifications

Y&B valves conform to API602, BS 5352, and ASME B16.34 Each are tested according to API 598, and marking is per MSS SP-25

Construction:

Full Port or Conventional Port

Outside Screw and Yoke(OS&Y)

Two piece self-aligning packing gland

Bolted bonnet with spiral-wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet

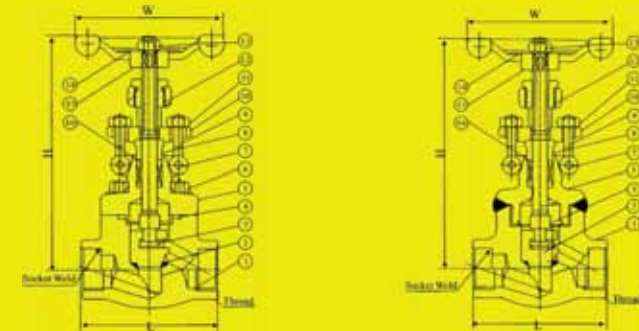
Integral backseat

Socket weld Ends to ASME B16.11

Screwed Ends(NPT)to ANMEB1.20.1

Flange Ends(RF) to ANSI B16.5

Forged Steel Globe Valve Class 800



Standard Material Specifications

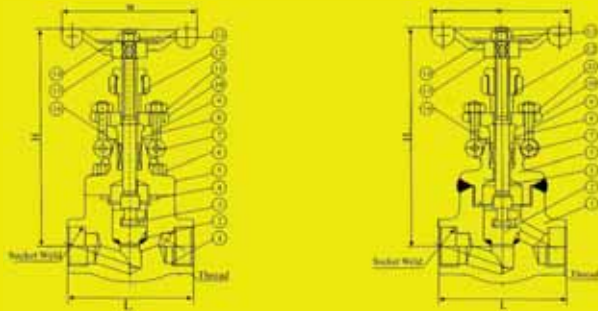
No	Part Name	CS to ASTM	As to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Disc	A276 420	A276 F304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+graphite		SS+PTFE	
5	Bonnet	A105	A276 304	A276 304(L)	A276 316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Pin	A276 420		A276 304	
8	Gland	A276 410		A182 F304(L)	A182 F316(L)
9	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
10	Gland Flange	A216 WCB		A351 Cf8	
11	Gland Nut	A193 2H	A194 4	A194 8	A194 8M
12	Yoke Nut	A276 410			
13	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
14	Nameplate	SS			
15	Handwheel	A197			
16	Stem Packing	Flexible Graphite		PTFE	
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29C~550°C	-29°C~180°C	

Note:Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS	Couv	3/8	1/2	3/4	1	1 1/4	1 1/2	2	/
	Full	/	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L		79	79	92	111	120	152	172	200
H(OPEN)		166	166	171	207	240	258	330	355
W		100	100	100	125	160	160	180	200
Weights	Bolted	1.9	1.9	2.1	3.5	6.0	7.5	11.4	14.6
	Welded	1.7	1.7	1.9	3.3	5.2	6.8	10.6	13.8

Forged Steel Globe Valve Class 900-1500



Standard Material Specifications

No	Part Name	CS to ASTM	As to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Disc	A276 420	A276 F304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+graphite		SS+PTFE	
5	Bonnet	A105	A276 304	A276 304(L)	A276 316(L)
6	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
7	Pin	A276 420		A276 304	
8	Gland	A276 410		A182 F304(L)	A182 F316(L)
9	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
10	Gland Flange	A216 WCB		A351 Cf8	
11	Gland Nut	A193 2H	A194 4	A194 8	A194 8M
12	Yoke Nut	A276 410			
13	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
14	Nameplate	SS			
15	Handwheel	A197			
16	Stem Packing	Flexible Graphite		PTFE	
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29C~550°C	-29°C~180°C	

Note:Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS	Couv	3/8	1/2	3/4	1	1 1/4	1 1/2	2	/
	Full	/	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L		2	111	111	120	152	172	200	220
H(OPEN)		171	207	207	240	258	330	355	370
W		100	125	125	160	160	180	200	240
Weights	Bolted	2.2	3.7	3.6	6.8	7.6	11.6	15.0	21.9
	Welded	2.0	3.4	3.3	6.0	5.6	10.3	14.2	18.0

Forged Steel Pressure-seal Globe Valve Class 900-2500



Standard Material Specifications

No	Part Name	CS to ASTM	Asto ASTM	SS to ASTM	
		Type A105	Type A182 F22	Type A182 F304	Type A182 F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Pressure Seat	A105	A182 F304	A182 F304(L)	A182 F316(L)
5	ressurering	A182 F304L		A182 F316(L)	
6	Bonnet	A106	A182 F22	A182 F304(L)	A182 F316(L)
7	Pin	A276 420			
8	P.S.Washer	A105	A182 F22	A182 F304(L)	A182 F316(L)
9	P.S.Lock Nut	A194 2H	A194 4	A194 8	A193 8M
10	Stem Packing	Flexibte Graphite		SS+PEFE	
11	Gland	A276 420		A182 F304	
12	Gland Flange	A216 WCB		A351 Cf8	
13	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276-410			
16	Handwheel	A197			
17	Nameplate	SS			
18	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29C~550°C	-29°C~180°C	

Note:Other materials are available upon request. CS= Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS		1/2 "	3/4"	1"	1 1/4"	1 1/2"	2 "
L	900-1500Lb	140	140	140	178	178	216
	2500Lb	186	186	186	232	232	279
H(OPEN)		333	333	333	408	408	524
W		160	160	180	200	250	280
Weights	900-1500Lb	11.2	10.5	10.1	21.0	19.6	40.4
	2500Lb	12.3	11.6	10.8	286.0	26.4	43.8

Forged Steel Check Valve



Bolted bonnet



Welded bonnet



Pressure seal bonnet



Flanged type

Check valve Design Construction and Specifications

Y&B check valves conform to MSS-SP-118 and ASME B16.34 Each are tested according to API 598, and marking is per MSS SP-25

Construction:

Full Port or Conventional Port

Piston check

Ball check

Swing check

Spring available on request

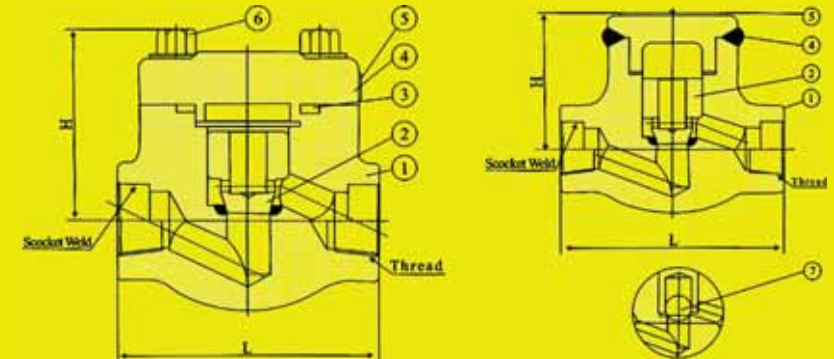
Bolted bonnet with spiral-wound gasket, threaded and seal welded bonnet or threaded and pressure seal bonnet

Socket weld ends to ASME B16.11

Screwed Ends(NPT)to ANSI/ASMEB1.20.1

Flange Ends(RF) to ANSI B16.5

Forged Steel Piston Check Valve Class 800



Standard Material Specifications

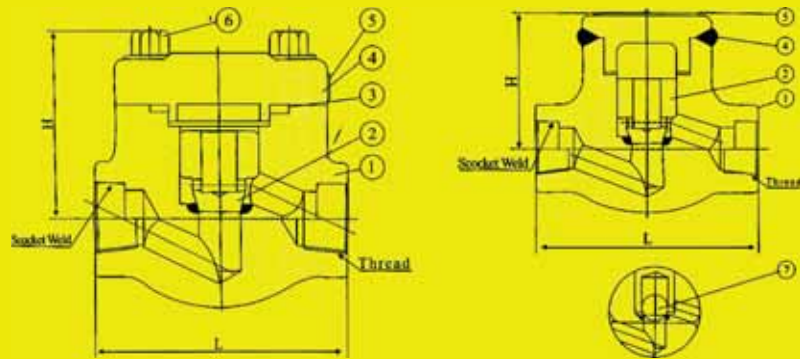
No	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A 105	A182 F22	A182 F304(L)	A182 F316(L)
2	Piston Disc	A276 410	A276 304	A276 304(L)	A276 316(L)
3	Gasket	Corrugated SS+graphite		SS+PTFE	
4	Bonnet	A105	A182 F22	A182/F304(L)	A182/F316(L)
5	Nameplate	SS			
6	Bolt	A193 B7	F193 B16	A193 B8(M)	A193 B8(M)
7	Ball	A182 F304	A182 F304	A182 F304	A182 F304
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note: Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS	Couv	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	Full		3/8	1/2	3/4	1	1 1/4	1 1/2	2
L		79	79	92	111	120	152	172	200
H		61	61	65	79	95	103	118	132
Weights	Bolted	1.4	1.2	1.5	3.1	3.9	5.6	8.9	12.5
	Welded	1.1	1.0	1.2	2.9	3.3	4.9	8.1	10.9

Forged Steel Piston Check Valve Class 900-1500



Standard Material Specifications

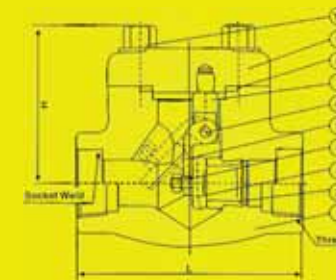
No	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A 105	A182 F22	A182 F304(L)	A182 F316(L)
2	Piston Disc	A276 410	A276 304	A276 304(L)	A276 316(L)
3	Gasket	Corrugated SS+graphite		SS+PTFE	
4	Bonnet	A105	A182 F22	A182/F304(L)	A182/F316(L)
5	Nameplate	SS			
6	Bolt	A193 B7	F193 B16	A193 B8(M)	A193 B8(M)
7	Ball	A182 F304	A182 F304	A182 F304	A182 F304
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note: Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS	Couv	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	Full		3/8	1/2	3/4	1	1 1/4	1 1/2	2
L		92	111	111	120	152	172	200	220
H		65	79	79	97	104	120	139	215
Weights	Bolted	1.6	3.4	3.3	5.5	6.0	9.2	12.9	16.2
	Welded	1.3	3.2	3.1	4.8	5.4	8.5	11.2	14.3

Forged Steel Swing Check Valve Class 900-1500



Standard Material Specifications

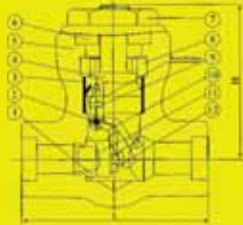
No	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A 105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A276 410	A276 304	A276 304(L)	A182 F316(L)
3	Swing Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
4	Nut	A194 2H	A194 4	A194 8	A1978M
5	Hinge	A105	A182 F22	A182 F304(L)	A182 F316(L)
6	Pin	A276 F22		A182 F304	A182 F316
7	Pontlevis	A105	A182 F22	A182F304L	A182 F316(L)
8	Gasket	Corrugated Ss+grapite		SS+PTFE	
9	Bonnet	A105	A182 F22	A182 F304L	A182 F306(L)
10	Bolt	A193 B7	A193 B16	A193 B8(M)	A193B8M
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note: Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS		3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	800Lb	79	79	92	111	120	120	140
	900~1500Lb	92	111	111	120	120	140	178
H	800Lb	61	61	78	84	101	120	133
	900~1500Lb	79	7	79	97	105	120	140
Weights	800Lb	1.1	1.0	1.9	3.9	4.5	7.3	10.0
	900~1500Lb	3.1	3.0	3.6	4.3	6.1	8.8	12.6

Forged Steel Pressure-seal Swing Check Valve Class 900-2500



Standard Material Specifications

No	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Seat Ring	A276 410	A276 304	A276 304(L)	A276 316(L)
2	Pin	A276 420		A182 F304	A182 F316
3	Pressure Ring	A276 304		A276 316(L)	
4	Pressure Seat	A105	A182 F304	A182/F304(L)	A182 F316(L)
5	Body	A 105	A18 F22	A182/F304(L)	A182 F316(L)
6	Bonnet	A 105	A182 F22	A182 F304	A182 F316(L)
7	Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Quarter Ring	A276 420	A182 F304		A182 F316
9	Pontlevis	A105	A182 F22	A182 F304L	A182 F316(L)
10	Hinge	A 105	A182 F22	A182 F304L	A182 F316(L)
11	Disc	A276 420	F304	A182 F304(L)	F316(L)
12	Nut	A194 2H	A194 4	A194 8	A194 8M
Suitable Medium		W.O.G.Ete	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29℃~425℃	-29℃~550℃	-29℃~180℃	

Note: Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	900~1500Lb	140	140	140	178	178	216
	2500Lb	186	186	186	232	232	279
H		117	117	117	152	152	195
Weights	900~1500Lb	8.2	7.8	7.7	19.8	19.2	21.3
	2500Lb	10.0	9.6	9.4	21.5	21.0	22.8

Forged Steel Pressure-seal Piston Check Valve Class 900-2500



Standard Material Specifications

No	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A 105	A182 F22	A182 F304(L)	A182 F316(L)
2	Lift Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Sealing Seat	A105	F22	A182 F304(L)	F316(L)
4	Pressure Ring	08F	08F	A276 304L	A276 316L
5	Retainion Nut	A194 2H	A194 4	A194 8	A194 8M
6	P.S.Lock Nut	A194V 2H	A194 4	A194 8	A194 8M
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ CH ₃ OOH etc	
Suitable Temperature		-29℃~425℃	-29℃~550℃	-29℃~180℃	

Note: Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	900~1500Lb	140	140	140	178	178	216
	2500Lb	186	186	186	232	232	279
H		117	117	117	152	152	195
Weights	900~1500Lb	7.5	7.0	6.7	18.5	18.1	20.3
	2500Lb	9.0	7.6	8.4	19.5	20.1	21.8

Forged Steel Flanged End Valves



Flanged end Globe Valve



Flanged end Gate Valve



Flanged end Check Valve

Flanged End Valve Design Construction and Specifications

API602,Mss-SP-118 ANSI B16.34、 B5352、

Y&B Flanged end valves conform to API602,MSS-SP-118(as applicable),and ANSI B16.34 Each are tested according to API 598,and marking is per Mss-SP-25.

Construction is as follows:

Full Port and Conventional Port

ANSI B16.10 Face to face according to ANSI B16.10

ANSI B16.5 F16.5 Flanges according to ANSI B16.5

Pressure seal bonnet

(OS&Y)Outside Screw and Yoke(OS&Y)

Two piece self-aligning packing gland

Integral backseat

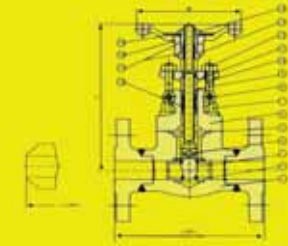
Integral body flanges as option

ASME B16.25 Butt Welded Ends to ASME B16.25

RTJ body bonnet gasket ring joint type

Bolted bonnet with spiral-wound gasket threaded and seal wided bonnet or threaded and pressure seal bonnet.

Flanged End Gate Valve 150Lb ~ 600Lb



Standard Material Specifications

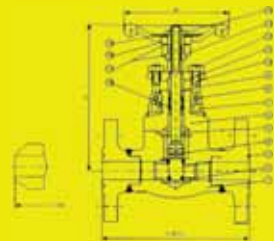
NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A 105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&430	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	316Corrugated SS+Graphite		316 PTFE SS+ PTFE	
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F306(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420		A276 304	
9	Gland	A276 410		A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 410			
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS			
16	Hand wheel	A197			
17	Bearing Gasket	A473 431			
18	Stem Packing	Fixible Graphite		PTFE	
	Suitable medium	W.O.G.etc	W.O.G.etc	HNO ₃ .CH ₃ OOH etc	
	Suitable Temperature	-29℃ ~ 425℃	-29℃ ~ 550℃	-29℃ ~ 180℃	

Note:other materials are available upon request.CS=Carbon Steel AS= Alloy Steel;SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS							
L(RF) L1(BW)	150	108	117	127	140	165	203
	300	140	152	165	178	190	216
	600	165	190	216	229	241	292
H(OPEN)	150,300	158	169	197	236	246	283
	600	169	197	236	246	283	320
W		100	100	125	160	160	180
Weights	150	RF	4.5	5.2	8.2	11.5	20.3
		BW	2.8	3.3	5.4	7.1	12.5
	300	RF	4.8	6.2	9.3	14	23.4
		BW	3.5	4.4	6.8	8.1	15.4
	600	RF	5.9	7.4	10.4	16.2	28.3
		BW	4.5	5.1	8.2	10.5	20.1

Flanged End Gate Valve 900Lb ~ 1500Lb



Standard Material Specifications

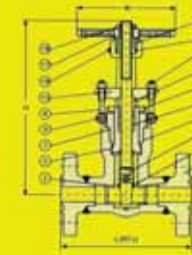
NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A 105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&403	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	316Corrugated SS+Graphite		316 PTFE SS+ PTFE	
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F306(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420		A276 304	
9	Gland	A276 410		A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut		A276 420		
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS			
16	Hand wheel		A197		
17	Bearing Gasket		A473 431		
18	Stem Packing	Flexible Graphite		PTFE	
	Suitable medium	W.O.G.etc	W.O.G.etc	HNO ₃ .CH ₃ OOH etc	
	Suitable Temperature	-29°C ~ 425°C	-29°C ~ 550°C	-29°C ~ 180°C	

Note:other materials are available upon request.AS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

	NPS	1/2	3/4	1	1 1/4	1 1/2	2
L(RTJ) L1(BW)	900 ~ 1500Lb	216	229	254	279	305	371
	900 ~ 1500Lb	216	229	254	279	305	368
	H(OPEN)	197	197	236	246	283	330
	W	125	125	160	160	180	220
Weights	RTJ	7.2	11.5	15.6	16.2	22.6	32.8
	BW	5.2	9.3	12.4	13.8	18.9	27.5

Flanged End Pressure Seal Gate Valve 900Lb ~ 2500Lb



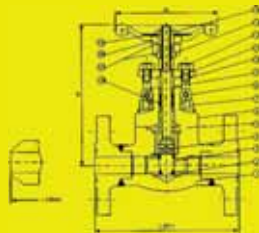
Standard Material Specifications

NO.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A 105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Seat	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&430	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Seat	A105	A182 F304	A182 F304(L)	F316(L)
6	Pressure Ring		A276 304L		A276 316L
7	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
9	Pin	A276 F420		A182 F304	
10	Stem Packing	Flexible Graphite		PTFE	
11	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
12	Gland	A276 F420		A182 F304	
13	Gland Flange	A216 WCB		A351 CF8	
14	Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut		A276 -420		
16	Retaining Nut	A194 2H	A194 4	A194 8	A194 8M
17	Handwheel		A197		
18	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
19	Oil Cup		Brass		
	Suitable medium	W.O.G.etc	W.O.G.etc	HNO ₃ .CH ₃ OOH etc	
	Suitable Temperature	-29°C ~ 425°C	-29°C ~ 550°C	-29°C ~ 180°C	

Dimensions(mm) and Weights(Kg)

	NPS	1/2	3/4	1	1 1/4	1 1/2	2
L(RTJ)	900 ~ 1500Lb	216	229	254	279	305	368
	2500Lb	264	273	308	349	384	451
H(OPEN)	900 ~ 1500Lb	216	250	270	320	350	445
	2500Lb	321	321	321	373	406	495
	W	160	160	180	200	250	280
Weights	900 ~ 1500Lb	19.6	21.5	25.7	37.8	48.5	99.8
	2500Lb	21.5	24.7	30.4	48.1	58.1	130.0

Flanged End Globe Valve 150Lb ~ 600Lb



Standard Material Specifications

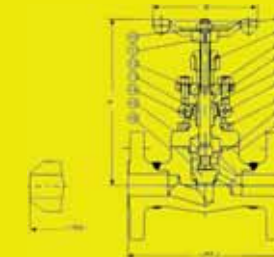
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A 105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Gasket	316Corrugated ss+Graphite		316PTFE SS+PTFE	
3	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
4	Pin Gland	A276 420		A276 304	
5	Gland Eyebolt	A276 410		A182 F304(L)	A182 F316(L)
6	Gland Nut	A193 B7	A193 B16	A193 B8	A194 8M
7	Yode Nut	A194 2H	A194 4	A194 8	A194 8M
8	Yoke Nut	A276 410			
9	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
10	Nameplate	SS			
11	Hand wheel	A197			
12	Gland Flange	A216 WCB		A351 CF8	
13	Stem Packing	Flexible Graphite		PTFE	
14	Bonnet	A105	A276 304	A182 F304(L)	A182 F316(L)
15	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
16	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
	Suitable Medium	W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	
	Suitable Temperature	-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note:Other materials are available upon request.CS=Carbon Steel AS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS							
L(RF) L1(BW)	150	108	117	127	140	165	203
	300	152	178	203	216	229	267
	600	165	190	216	229	241	292
H(OPEN)	150、300	166	171	207	240	258	330
	600	171	207	240	258	330	380
W		100	100	125	160	160	180
Weights	150	RF	4.5	6.9	9.8	13.5	19.5
		BW	2.3	3.6	7.8	8.2	12.0
	300	RF	4.8	7.7	11.0	16.8	21.2
		BW	2.8	4.0	8.5	9.2	12.6
	600	RF	5.6	7.8	12.5	17.0	23.5
		BW	3.4	4.7	9.2	10.5	13.3

Flanged End Globe Valve 900Lb~1500Lb



Standard Material Specifications

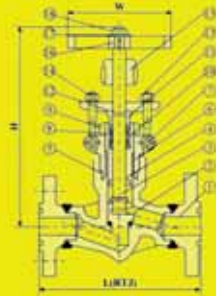
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A 105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Gasket	316Corrugated ss+Graphite		316PTFE SS+PTFE	
3	Bonnet Bolt	A193 B7	A193 B16	A193 B7	A193 B8M
4	Pin Gland	A276 420		A276 304	
5	Gland Eyebolt	A276 410		A182 F304(L)	A182 F316(L)
6	Gland Nut	A193 B7	A193 B16	A193 B7	A193 B7
7	Yode Nut	A194 2H	A194 4	A194 8	A194 8M
8	Yoke Nut	A276 410			
9	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
10	Nameplate	SS			
11	Hand wheel	A197			
12	Gland Flange	A216 WCB		A351 Cf8	
13	Stem Packing	Flexible Graphite		PTFE	
14	Bonnet	A105	A276 304	A182 F304(L)	A182 F316(L)
15	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
16	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
	Suitable Medium	W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	
	Suitable Temperature	-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note:Other materials are available upon request.CS=Carbon Steel AS=Alloy Steel; SS=Stainless Steel;

Mm&kg Dimensions(mm)and Weights(Kg)

NPS		1/2	3/4	1	1 1/4	1 1/2	2
L(RTJ)	900~1500Lb	216	229	254	279	305	371
L1(BW)	900~1500Lb	216	229	254	279	305	368
H(OPEN)		207	207	240	258	330	355
W		125	125	160	160	180	200
Weights	RTJ	8.0	13.2	17.4	19.0	24.5	31.0
	BW	5.2	10.0	14.6	15.8	20.5	27.8

Flanged End Pressure-seal Globe Valve 900Lb~2500Lb



Standard Material Specifications

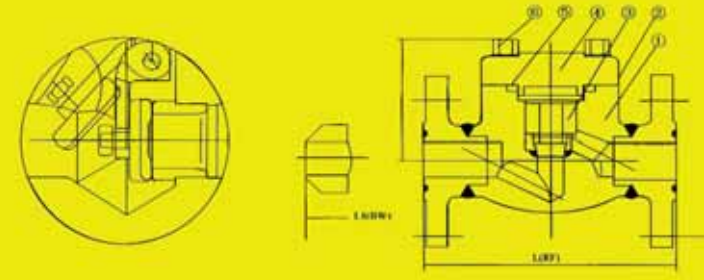
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type A182 F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
4	Pressure Seat	A105	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Ring	A182 F304(L)		F316L	
6	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
7	Pin	A276 420		A276 304	
8	P.S.Washer	A105	A182 F22	A182 F304(L)	A182 F316(L)
9	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
10	Stem Packing	Flexible Graphite		PTFE	
11	Gland	A276 420		A182 F304	
12	Gland Flange	A216 WCB		A351 Cf8	
13	Gland Eyedolt	A193 B7	A193 B16	A193 B8	A193 B8M
14	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276 410			
16	Hand wheel	A197			
17	Name plate	SS			
18	H.W.Nut	A194 2H	A194 4	A194 8	A194 8M
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ .CH ₃ OOH etc	
Suitable Temperature		-29℃~425℃	-29℃~550℃	-29℃~180℃	

Note:Other materials are available upon request.CS=Carbon SteelAS=Alloy Steel;AS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm)and Weights(Kg)

NPS		1/ 2"	3/ 4"	1"	1 1/4"	1 1/2"	2"
L (RTJ)	900Lb~1500Lb	216	229	254	279	305	368
	2500Lb	264	273	308	349	384	451
H (OPEN)	900Lb~1500Lb	318	318	318	398	408	524
	2500Lb	333	333	333	410	420	524
W		160	160	180	200	250	280
Weights	900Lb~1500Lb	15.5	16.9	18.9	28.9	34.3	52.8
	2500Lb	18.0	20.5	23.0	36.1	45.0	81.5

Flanged End Check Valve 50Lb~600Lb



Standard Material Specifications

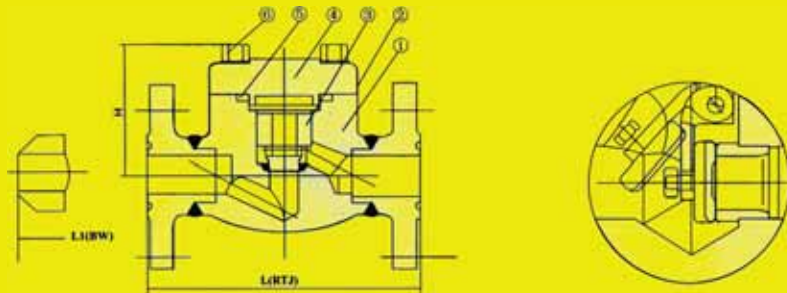
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Name Plate	SS			
3	Piston Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
4	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite		316 PTFE SS+PTFE	
6	Bolt	A193 B7	A193 B16	A193 B8	A193 B8(M)
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ .CH ₃ OOH etc	
Suitable Temperature		-29℃~550℃	-29℃~550℃	-29℃~180℃	

Note:Other materials are available upon request.CS=Carbon SteelAS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm)and Weights(Kg)

NPS		1/ 2	3/ 4	1	1 1/4 "	1 1/2 "	2
L(RF) L1(BW)	150	108	117	127	140	165	203
	300	152	178	203	216	229	267
H	600	165	190	216	229	241	292
	150,300	61	61	79	95	103	118
	600	61	79	95	103	118	135
Weights	150	RF	2.56	3.37	4.37	8.17	12.64
		BW	1.70	1.90	2.10	5.12	7.89
		R F	2.73	3.65	4.74	8.77	13.70
	300	BW	1.90	2.10	3.00	5.12	7.85
		R F	3.00	4.00	5.83	9.47	15.6
		BW	2.00	3.12	4.25	7.25	13.60

Forged Steel Flange End Check Valve 900 ~ 1500Lb



Standard Material Specifications

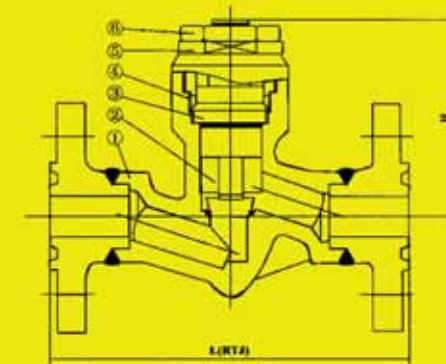
No.	Part Name	CS to ASTM	AS to ASTM	SS to ASTM	
		Type A 105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Name Plate	SS			
3	Piston Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
4	Bonnet	A105	A182 F22	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite			
6	Bolt	A193 B7	A193 B16	A193 B8(M)	A193 B8(M)
	Suitable Medium	W.O.G.etc	W.O.G.etc	HNO ₃ , CH ₃ OOH etc	
	Suitable Temperature	-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note: Other materials are available upon request. CS=Carbon Steel AS=Alloy Steel; SS=Stainless Steel;

Mm&kg Dimensions(mm)and Weights(Kg)

NPS		1/2	3/4	1	1 1/4	1 1/2	2
L(RTJ)		216	229	254	279	305	371
L1(BW)		216	229	254	279	305	368
H		79	79	95	104	120	139
Weights	RTJ	8.5	10.5	15.7	20.8	27.2	33.0
	BW	6.4	8.0	13.2	17.8	24.2	29.7

Flanged End Pressure-seal Piston Check Valve 900Lb~2500Lb



Standard Material Specifications

No.	Part Name	CS to ASTM	CS to ASTM	SS to ASTM	
		Type A105	Type F22	Type F304(L)	Type F316(L)
1	Body	A105	A182 F22	A182 F304(L)	A182 F316(L)
2	Lift Disc	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Pressure Seat	A105	F22	A182 F304(L)	F316
4	Pressure Ring	A276 304L			A276 316L
5	Retaining Nut	A194 2H	A194 4	A194 8	A194 8M
6	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
	Suitable Medium	W.O.G.etc	W.O.G.etc	HNO ₃ , CH ₃ OOH etc	
	Suitable Temperature	-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note: Other materials are available upon request. CS=Carbon Steel AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm)and Weights(Kg)

NPS		1/ 2"	3/ 4"	1"	1 1/4 "	1 1/2 "	2 "
L(RTJ)	900Lb~1500Lb	216	229	254	279	305	368
	2500Lb	264	273	308	349	384	451
H	900Lb~1500Lb	117	117	117	152	152	195
	2500Lb	117	117	117	152	152	195
Weights	900Lb~1500Lb	10.5	11.9	13.9	19.9	26.9	32.5
	2500Lb	12.6	14.9	16.5	24.8	30.0	35.0