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VALVULAS INDUSTRIALES

FEVISA



TALLERES
JESUS ALVAREZ, S.A.



VÁLVULAS DE COMPUERTA, RETENCIÓN Y GLOBO
GATE, CHECK & GLOBE VALVES

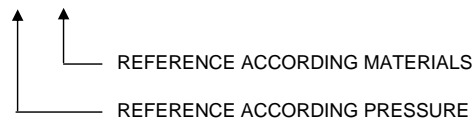


FEVISA

Calle Siderurgia, p - 4 - 1 Ciudad Industrial VALNALON, 33930 La Felguera - Langreo -
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Apartado 29 - Asturias - Spain

CAST STEEL GATE VALVE STANDARD MATERIALS OF PARTS

EXAMPLE - № 371 - CB



C = **CARBON STEEL**

SEAT RING	A350 LF2
DISC	A352 LCB
STEM	A182 F304

PRESSURE:

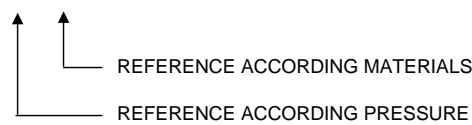
371 =	CLASS 150-PN 20
372 =	CLASS 300-PN 50
373 =	CLASS 600-PN 100
373,5 =	CLASS 800
374 =	CLASS 900-PN 150
375 =	CLASS 1500-PN 250
376 =	CLASS 2500-PN 420

MATERIALS:

	C			A			S				
	CARBON STEEL			ALLOY STEEL			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	A351CF3M	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

EXAMPLE - № 51 - AC



A = **ALLOY STEEL**

SEAT RING	A182 F5
DISC	A217 C5
STEM	A182 F6

PRESSURE:

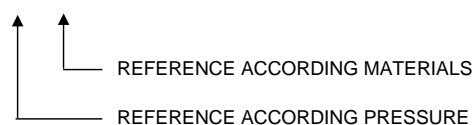
51 =	CLASS 150-PN 20
52 =	CLASS 300-PN 50
53 =	CLASS 600-PN 100
54 =	CLASS 900-PN 150
55 =	CLASS 1500-PN 250
56 =	CLASS 2500-PN 420

MATERIALS:

	C			A			S				
	CARBON STEEL			ALLOY STEEL			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	A351CF3M	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

EXAMPLE - № 63 - SD



S = **STAINLESS STEEL**

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-PN420

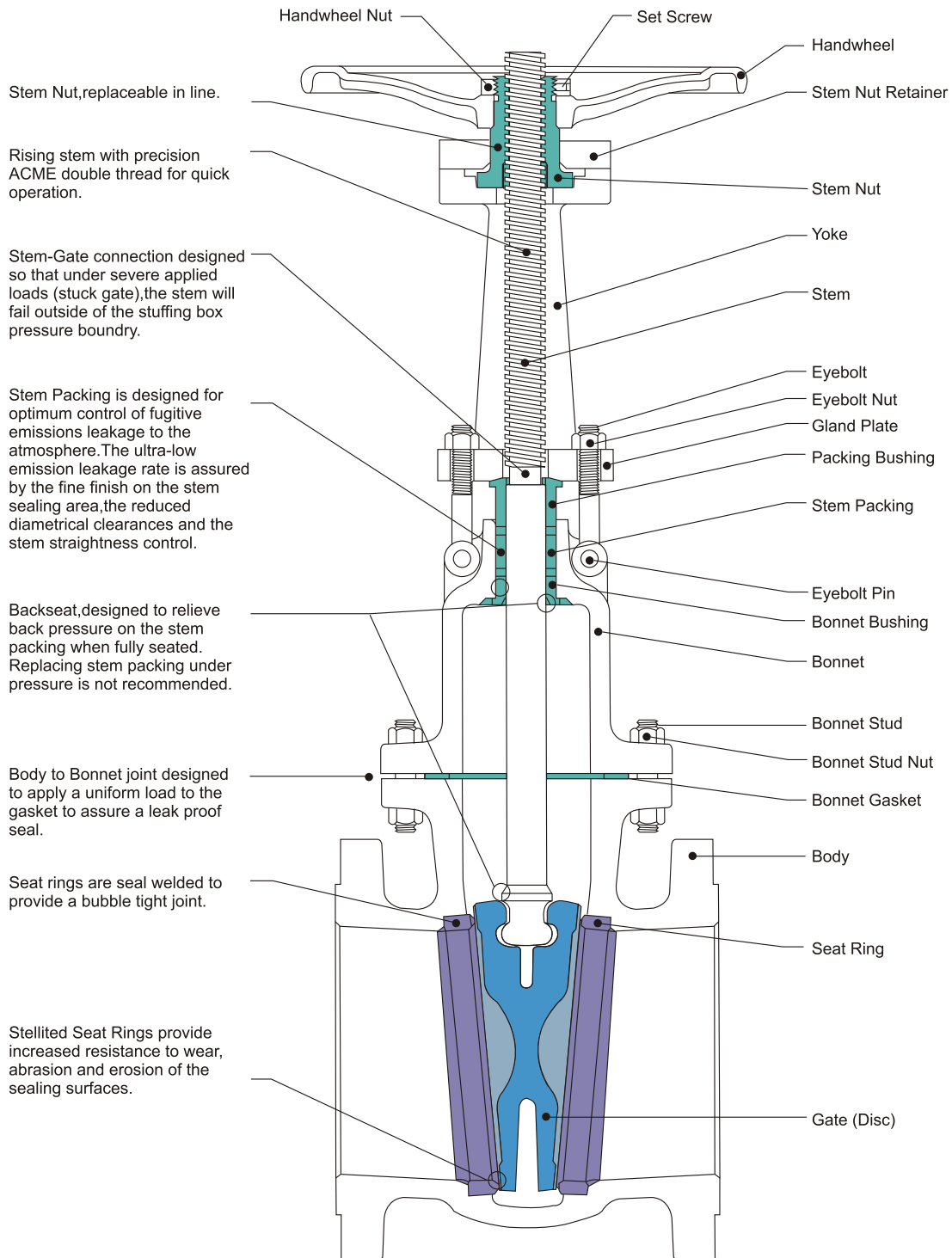
MATERIALS:

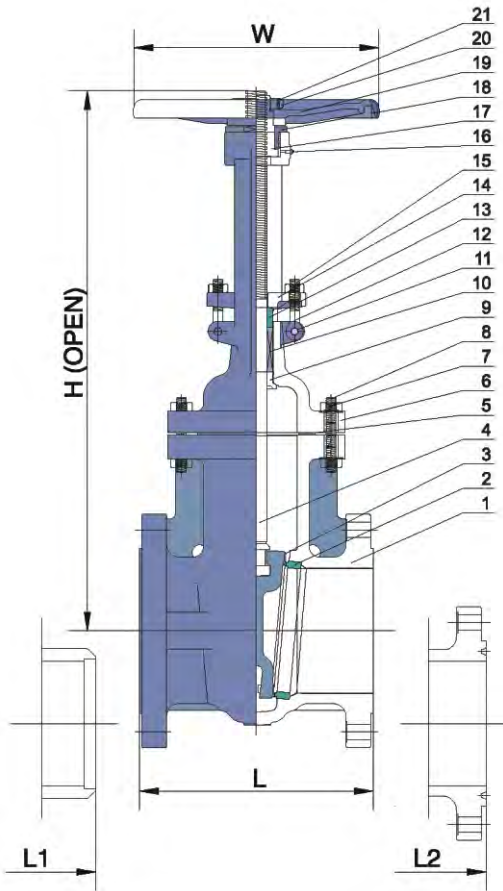
	C			A			S				
	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL				
	A	B	C	A	B	C	A	B	C	D	E
SEAT RING	A105	A350 LF2	A350 LF2	A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
DISC	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351CF3M	A351 CF8C

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)





FEATURES

OS & Y,Rising Stem
Bolted Bonnet
Flexible Wedge (2" Solid)
Extended Bonnet for Cryogenic Services
By Pass On Request
Locking Device Optional

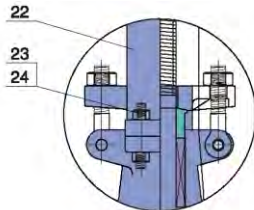
SPECIFICATIONS

Design	ASME B16.34/API 600
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

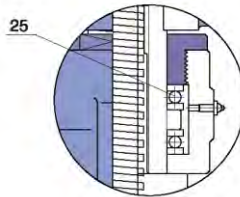
STANDARD MATERIALS OF PARTS

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	Gsaket	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	Caibon 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

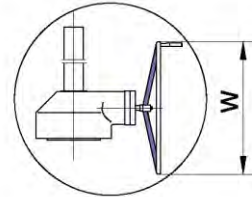
Yoke for
 14" & Larger



Bearing for
 16" & Larger

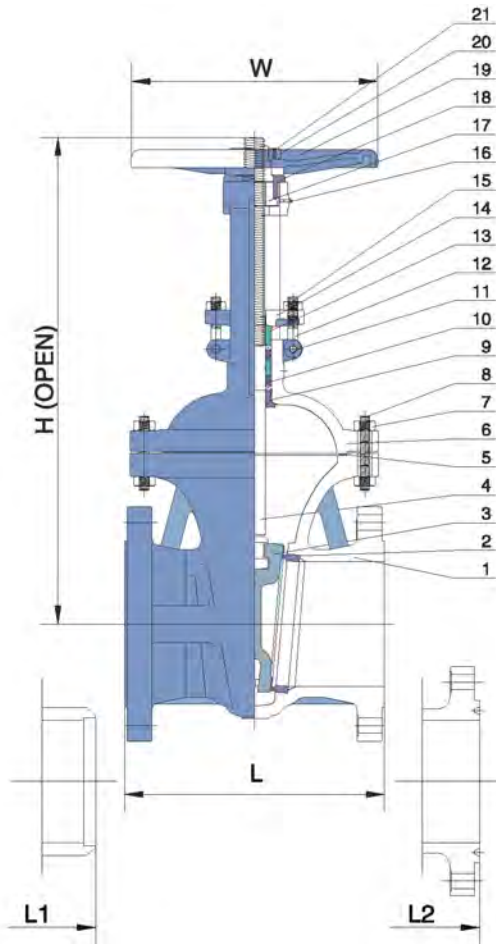


Gear Optional for 24" & Smaller
 Standard for 28" & Larger



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



FEATURES

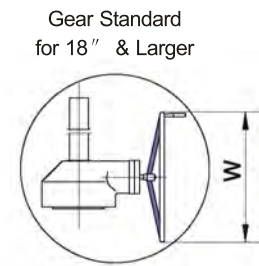
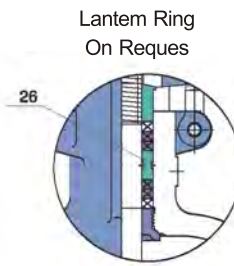
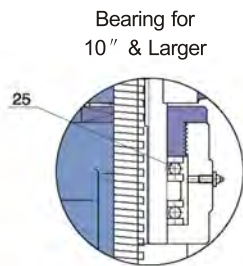
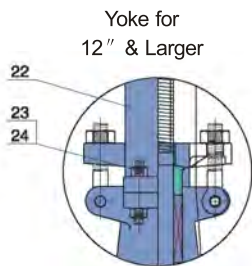
OS & Y,Rising Stem
Bolted Bonnet
Flexible Wedge (2" Solid)
Extended Bonnet for Cryogenic Services
By Pass On Request
Locking Device Optional

SPECIFICATIONS

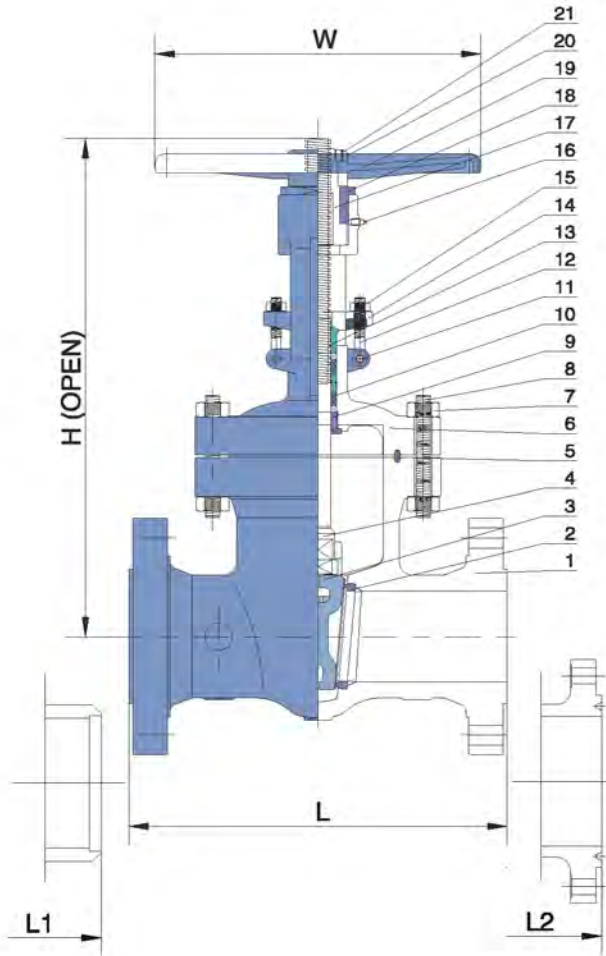
Design	ASME B16.34/API 600
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

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	Caibon 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"	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	30.00	33.00	36.00	39.00	45.00	53.00	55.00
	mm	216	241	283	305	403	419	457	502	762	838	914	991	1143	1346	1397
L2	in	9.12	10.12	11.74	12.62	16.50	17.12	18.62	20.37	30.62	33.62	36.62	39.75	45.88	54.00	56.00
	mm	232	257	298	321	419	435	473	517	778	854	930	1010	1165	1372	1422
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



FEATURES

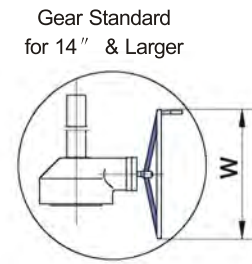
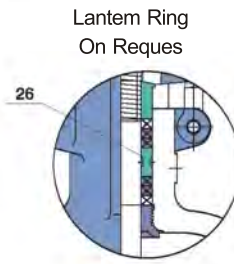
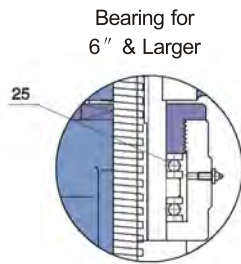
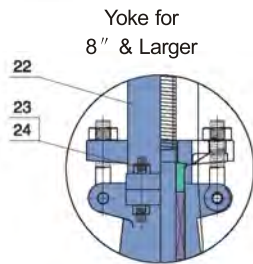
OS & Y,Rising Stem
Bolted Bonnet
Flexible Wedge (2" Solid)
Extended Bonnet for Cryogenic Services
By Pass On Request
Locking Device Optional

SPECIFICATIONS

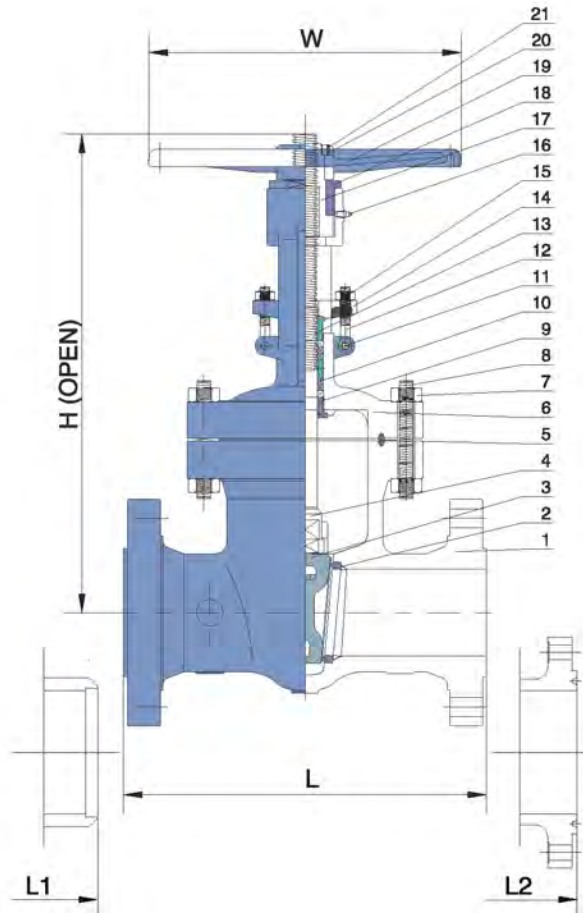
Design	ASME B16.34/API 600
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2		ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Stem	ASTM A182 GR.F6
5	Gasket,Ring Joint	Soft Iron
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



FEATURES

OS & Y,Rising Stem
Bolted Bonnet
Flexible Wedge (2" Solid)
Extended Bonnet for Cryogenic Services
By Pass On Request
Locking Device Optional

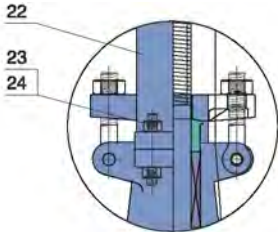
SPECIFICATIONS

Design	ASME B16.34/API 600
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

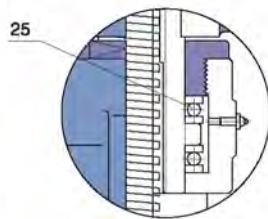
STANDARD MATERIALS OF PARTS

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, Ring Joint	Soft Iron
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	Caibon 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

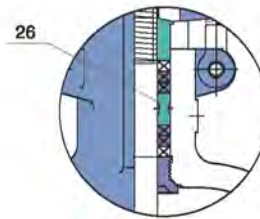
Yoke for 6" & Larger



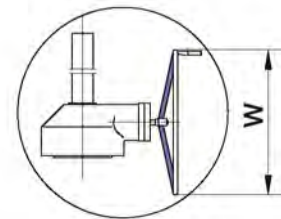
Bearing for 6" & Larger



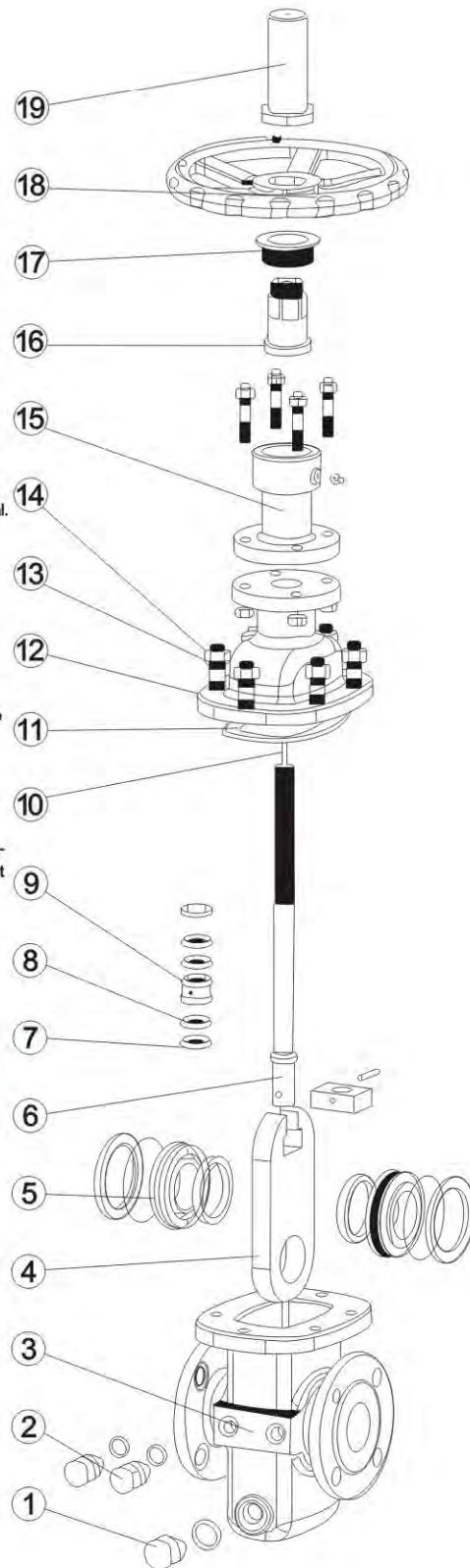
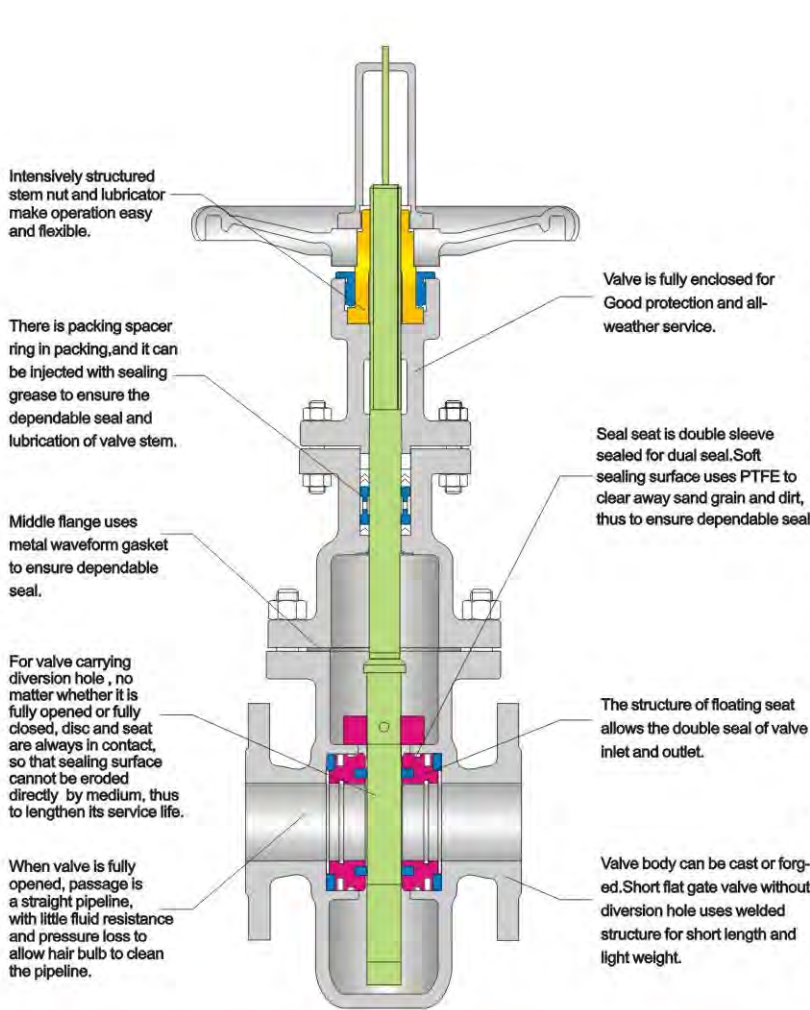
Lantern Ring On Reques



Gear Standard for 10" & Larger(900)
 8" & Larger(1500)
 6" & Larger(2500)



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"
	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
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	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	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	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	842	1000	1146	454	514	584	683	927	1038	1292	1445
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	27.56	29.53	34.82	43.19	57.09	63.39	81.73	89.80
	mm	620	705	737	825	1065	1219	1345	1840	695	705	770	872	1092	1400	1600	1840	700	750	887	1079	1450	1610	2076	2281
W	in	12	14	14	16	20	24	24	24	14	16	16	20	24	24	24	24	14	18	18	20	24	24	24	24
	mm	300	350	350	400	500	600	610	610	350	400	400	500	600	610	610	610	350	450	450	500	610	610	610	610
Weight RF	kg	95	108	125	194	378	635	900	1550	95	128	181	275	627	1000	2200	3300	135	210	271	506	1600	2450	4570	7150



NO.	Part Name	ASTM	ASTM
1	Blown down Stopple	A276-420	A276-304
2	Grease injection joint	A105	A105
3	Body	A216-WCB	A216-WCB
4	Gate disc	A182-F6a	A182-F304
5	Seat	A105+F4+NBR	A182-F304+F4+PTFE
6	Stem	A276-410	A276-304
7	Lower Packing	VITON	VITON
8	Lantern ring	A276-420	A276-420
9	Upper Packing	VITON	VITON
10	Indicating Finger	A276-420	A276-420
11	Gasket	Graphite+Stainless Steel	
12	Bonnet	A216-WCB	A216-WCB
13	Stud	A193-B7	A193-B7
14	Nut	A194-2H	A194-2H
15	Yoke	A216-WCB	A216-WCB
16	Stem Nut	B148 C95600	B148 C95600
17	Stem Nut Retainer	A108 1020	A108 1020
18	Handwheel	A197	A197
19	Indicating Cover	A108 1020	A108 1020



Through Conduit Gate Valve Class 150Lb

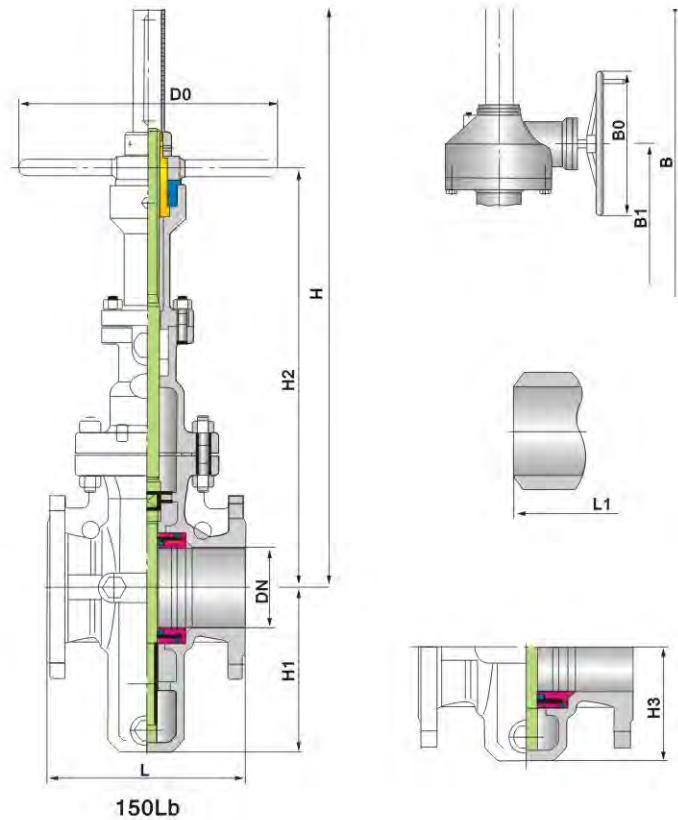


Applicable standards:

STEEL GATE VALVES, API 6D
 STEEL GATE VALVES, ISO 14313
 STEEL VALVES, ASME B 16.34
 FACE TO FACE, ASME B 16.10
 END FLANGES, ASME B 16.5
 BUTTWELDING ENDS, ASME B 16.25
 INSPECTION AND TEST, API 6D

Design description:

FULL PATH DESIGN
 OS & Y, OUTSIDE SCREW AND YOKE
 BB, BOLTED BONNET
 PARALLEL SINGLE OR DOUBLE DISC TYPE
 "K" TYPE OR "V" TYPE OPEN DOUBLE WEDGE DISC
 RENEWABLE SEAT RINGS
 FORGED T-HEAD STEM
 RISING STEM AND NON-RISING HANDWHEEL
 FLANGED OR BUTTWELDING ENDS
 AVAILABLE WITH BG OPERATOR
 CONDUCTION CURRENT OR NO CONDUCTION CURRENT PATTEN



Dimensions data

NPS	1	1¼	1½	2	2½	3	4	6	8	10	12	14	16	18	20	24	28	32	36	40
DN	25	32	40	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000

ANSI Class 150Lb

	1	1¼	1½	2	2½	3	4	6	8	10	12	14	16	18	20	24	28	32	36	40
L	127	14	165	178	190	203	229	267	292	330	356	381	406	432	457	508	610	660	711	811
L1	127	140	165	216	241	283	305	403	419	457	502	572	610	660	711	813	914	965	1016	-
L2	-	-	-	-	-	-	150	150	180	180	200	200	218	218	229	248	286	286	-	-
H	360	375	410	450	550	610	700	895	1130	1290	1480	1660	1850	2080	2300	2680	3080	3491	3897	4317
H2	250	260	290	315	420	428	494	625	784	937	1080	1283	1417	1489	1672	2012	2250	2550	2850	3250
D0	180	180	250	250	300	300	300	350	350	400	450	500	500	600	700	800	800	1000	1000	1200
B	-	-	-	-	-	-	770	965	1200	1360	1560	1740	1930	2160	2420	2800	3200	3640	4050	4467
B1	-	-	-	-	-	-	650	800	960	1080	1200	1350	1500	1680	1850	2120	2450	2800	3080	3400
B0	-	-	-	-	-	-	310	310	310	310	310	460	460	460	460	460	460	460	600	600



Through Conduit Gate Valve Class 300-400Lb

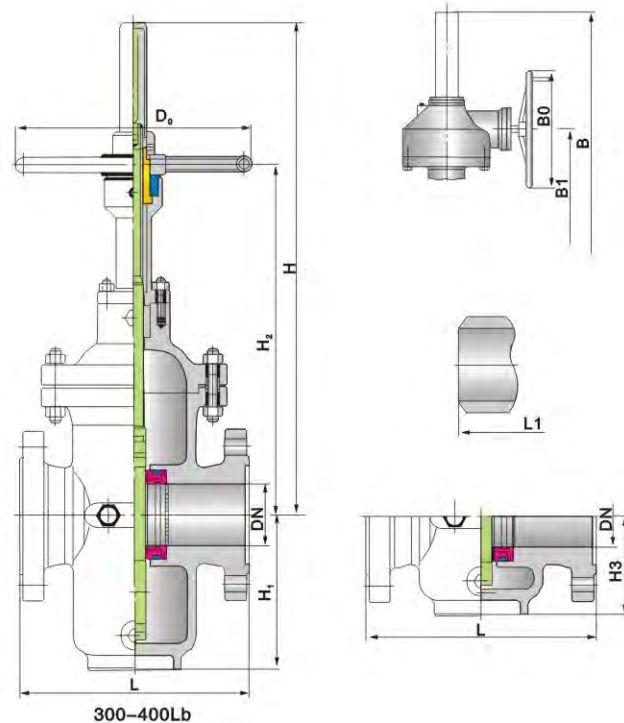


Applicable standards:

STEEL GATE VALVES, API 6D
 STEEL GATE VALVES, ISO 14313
 STEEL VALVES, ASME B 16.34
 FACE TO FACE, ASME B 16.10
 END FLANGES, ASME B 16.5
 BUTTWELDING ENDS, ASME B 16.25
 INSPECTION AND TEST, API 6D

Design description:

FULL PATH DESIGN
 OS & Y, OUTSIDE SCREW AND YOKE
 BB, BOLTED BONNET
 PARALLEL SINGLE OR DOUBLE DISC TYPE
 "K" TYPE OR "V" TYPE OPEN DOUBLE WEDGE DISC
 RENEWABLE SEAT RINGS
 FORGED T-HEAD STEM
 RISING STEM AND NON-RISING HANDWHEEL
 FLANGED OR BUTTWELDING ENDS
 AVAILABLE WITH BG OPERATOR
 CONDUCTION CURRENT OR NO CONDUCTION CURRENT PATTEN



Dimensions data

NPS	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	28	32	36
DN	25	32	40	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	900

ANSI Class 300Lb

	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	28	32	36
L	165	178	190	216	241	283	305	403	419	457	502	762	838	914	991	1143	1346	1524	1727
L1	165	178	190	216	241	283	305	403	419	457	502	762	838	914	991	1143	1346	1524	1727
L2	-	-	-	-	-	-	150	150	180	180	200	200	218	218	229	248	286	286	-
H	370	385	420	458	555	615	710	900	1135	1401	1580	-	-	-	-	-	-	-	-
H2	260	270	300	325	420	430	500	625	790	1040	1150	-	-	-	-	-	-	-	-
D0	180	180	250	250	300	300	300	350	350	400	450	-	-	-	-	-	-	-	-
B	-	-	-	-	-	-	770	965	1200	1360	1560	1740	1930	2160	2420	2800	3200	3640	4050
B1	-	-	-	-	-	-	650	800	960	1090	1200	1350	1540	1700	1850	2120	2460	2800	3080
B0	-	-	-	-	-	-	310	310	310	310	310	460	460	460	460	460	460	460	600

ANSI Class 400Lb

	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	28	32	36
L				292	330	356	406	495	597	673	762	826	902	978	1054	1232	1397		
L1				292	330	356	406	495	597	673	762	826	902	978	1054	1232	1397		
H				458	555	615	710	900	1135	1401	1580	-	-	-	-	-	-		
H2				325	420	430	500	625	790	1040	1150	-	-	-	-	-	-		
D0				300	300	350	350	400	500	500	600	-	-	-	-	-	-		
B				305	560	610	770	965	1200	1370	1560	1740	1970	2260	2420	2800	3230		
B1				430	470	510	650	800	960	1090	1200	1350	1540	1700	1850	2120	2460		
B0				310	310	310	310	310	310	460	460	460	460	460	460	600	600		



Through Conduit Gate Valve Class 600-900Lb

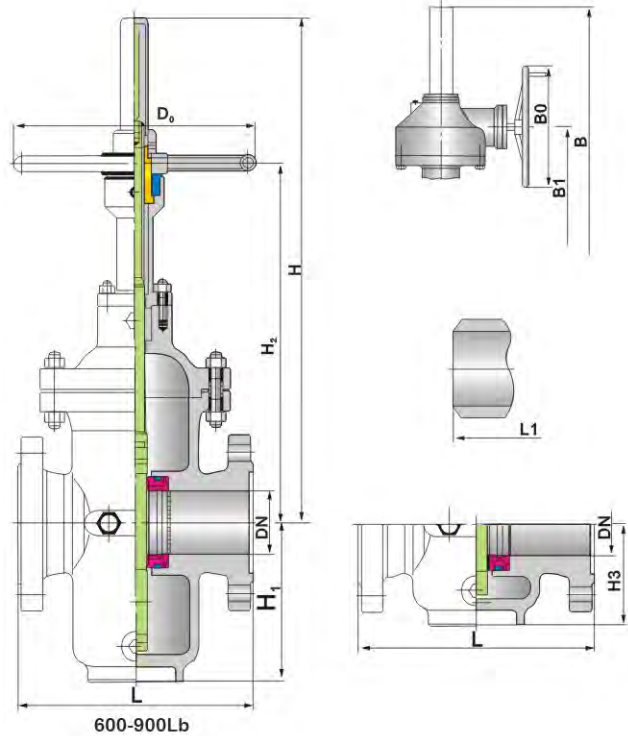


Applicable standards:

STEEL GATE VALVES, API 6D
 STEEL GATE VALVES, ISO 14313
 STEEL VALVES, ASME B 16.34
 FACE TO FACE, ASME B 16.10
 END FLANGES, ASME B 16.5
 BUTTWELDING ENDS, ASME B 16.25
 INSPECTION AND TEST, API 6D

Design description:

FULL PATH DESIGN
 OS & Y, OUTSIDE SCREW AND YOKE
 BB, BOLTED BONNET
 PARALLEL SINGLE OR DOUBLE DISC TYPE
 "K" TYPE OR "V" TYPE OPEN DOUBLE WEDGE DISC
 RENEWABLE SEAT RINGS
 FORGED T-HEAD STEM
 RISING STEM AND NON-RISING HANDWHEEL
 FLANGED OR BUTTWELDING ENDS
 AVAILABLE WITH BG OPERATOR
 CONDUCTION CURRENT OR NO CONDUCTION CURRENT PATTEN



NPS DN	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600
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ANSI Class 600Lb

L				292	330	356	432	559	660	787	838	889	991	1092	1194	
L1				292	330	356	432	559	660	787	838	889	991	1092	1194	
H				468	565	625	720	910	1145	1411	1590	-	-	-	-	
H2				335	430	440	510	630	800	1050	1160	-	-	-	-	
D0				300	300	350	350	400	500	500	600	-	-	-	-	
B				505	560	610	770	965	1200	1370	1560	1740	1970	2260	2420	
B1				430	470	510	650	800	960	1090	1200	1350	1540	1700	1850	
B0				310	310	310	310	310	310	460	460	460	460	460	460	

ANSI Class 900Lb

L(RF)	254	279	305	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549
L(BW)	254	279	305	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549
H	325	405	503	550	618	693	810	1052	1263	1583	1698	-	-	-	-	-
H2	253	312	387	416	491	531	618	791	942	1136	1271	-	-	-	-	-
D0	250	300	300	350	400	500	600	650	700	800	1000	-	-	-	-	-
B	-	-	-	-	-	833	950	1212	1423	1813	1928	2230	-	-	-	-
B1	-	-	-	-	-	616	703	886	1037	1276	1411	1585	-	-	-	-
B0	-	-	-	-	-	305	305	458	458	458	458	458	-	-	-	-
H3	73	85	91	97	110	121	133	176	206	255	290	321	351	395	436	515
H1	100	128	40	147	184	216	266	418	508	600	726	775	871	966	1060	1416



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.

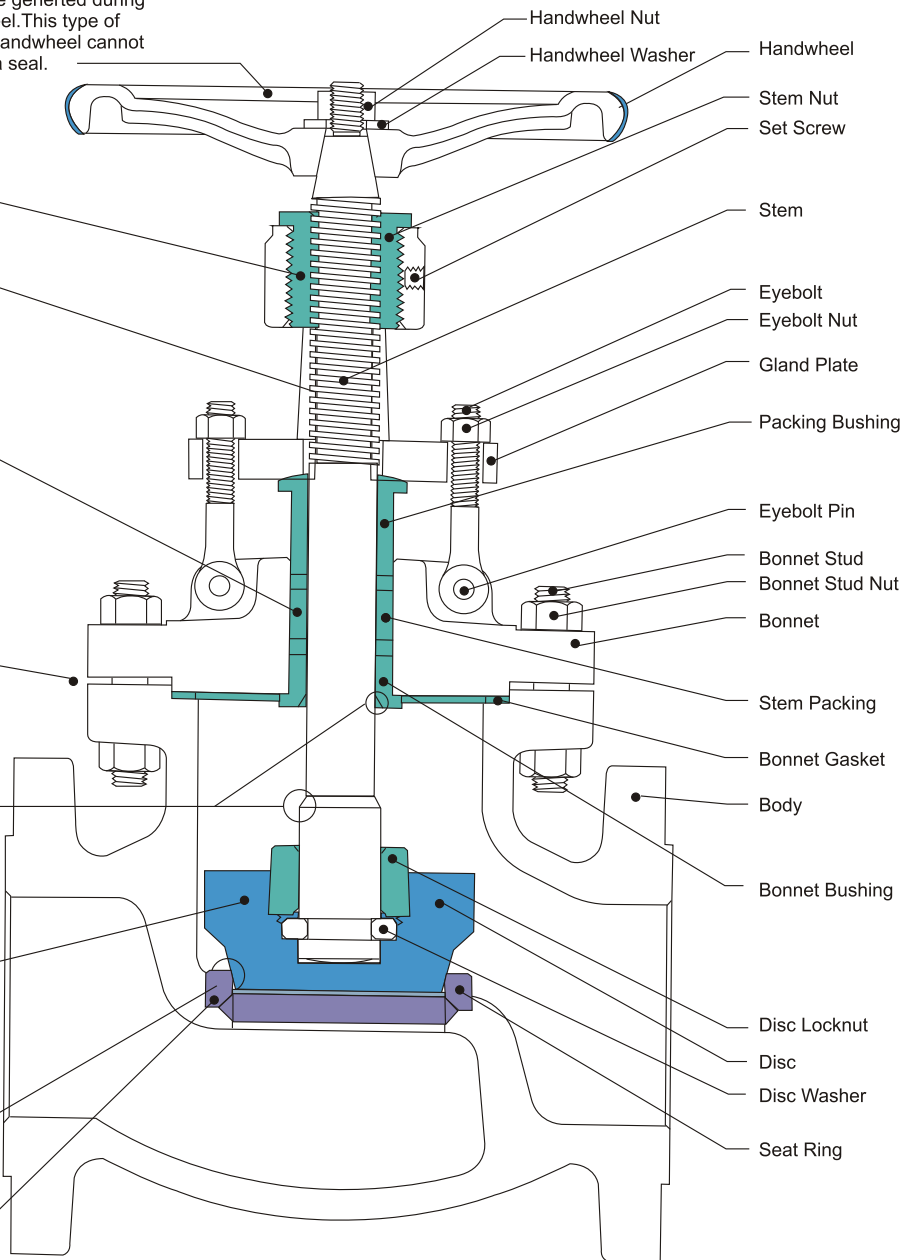
Body to Bonnet Joint designed to apply a uniform load to the gasket to assure a leak proof seal.

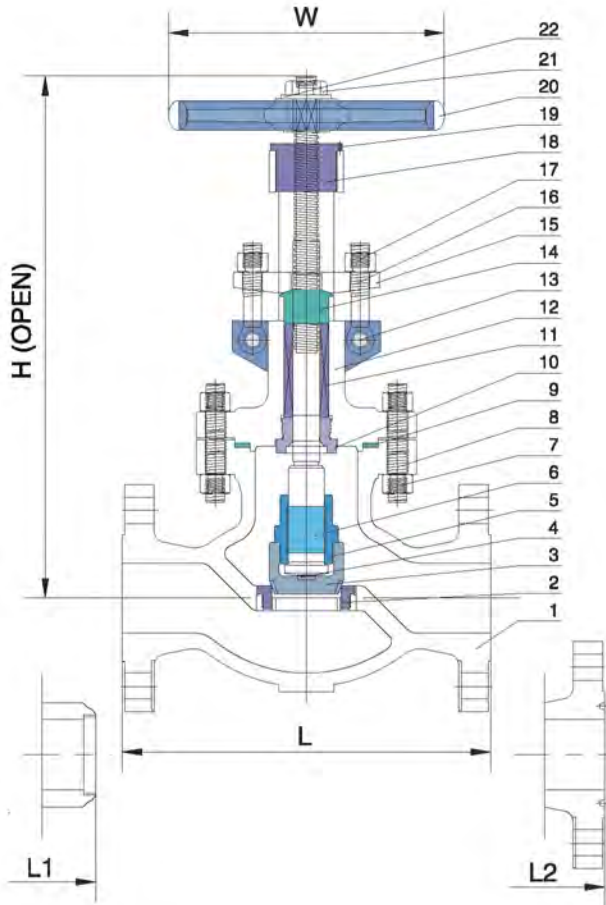
Backseat designed to relieve back pressure on the stem packing when fully seated. Replacing stem packing under pressure is not recommended.

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.

Stellite 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.





FEATURES

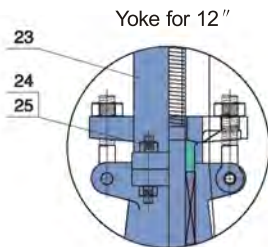
OS & Y, Rising Stem
Bolted Bonnet
Conic Disc
Extended Bonnet for Cryogenic Services
Impact hand wheel Optional
Gear Optional

SPECIFICATIONS

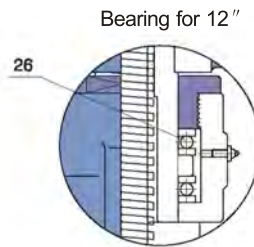
Design	ASME B16.34/BS1873
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

STANDARD MATERIALS OF PARTS

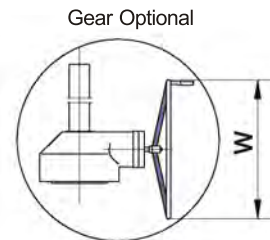
ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A105+13Cr Faced
4	Disc Thrust Plate	ASTM A276 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 GR.F6
7	Bonnet Bolt nuts	ASTM A194 GR.2H
8	Bonnet Bolt	ASTM A193 GR.B7
9	Gasket	Soft Iron+Graphite
10	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	Caibon 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



Yoke for 12"



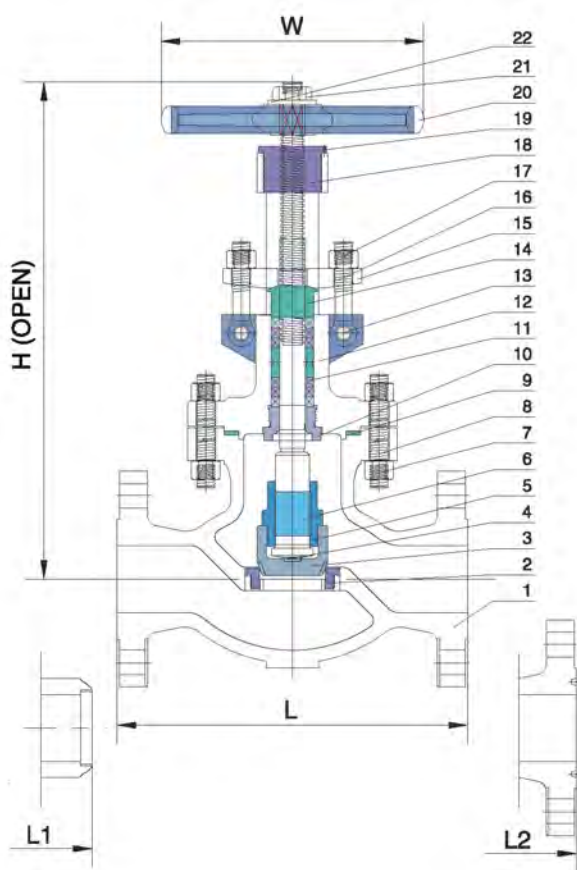
Bearing for 12"



Gear Optional

Dimensions and Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L/L1	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
L2	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



FEATURES

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

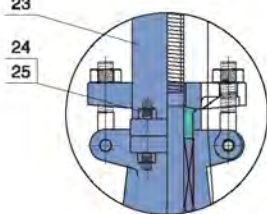
SPECIFICATIONS

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

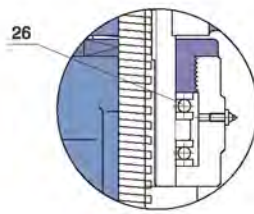
STANDARD MATERIALS OF PARTS

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	Caibon 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

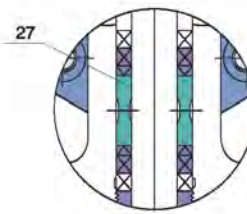
Yoke for 8" & Larger



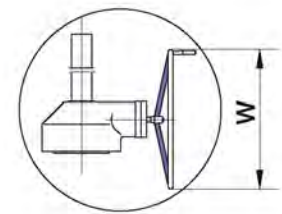
Bearing for 8" & Larger



Lantern Ring On Request

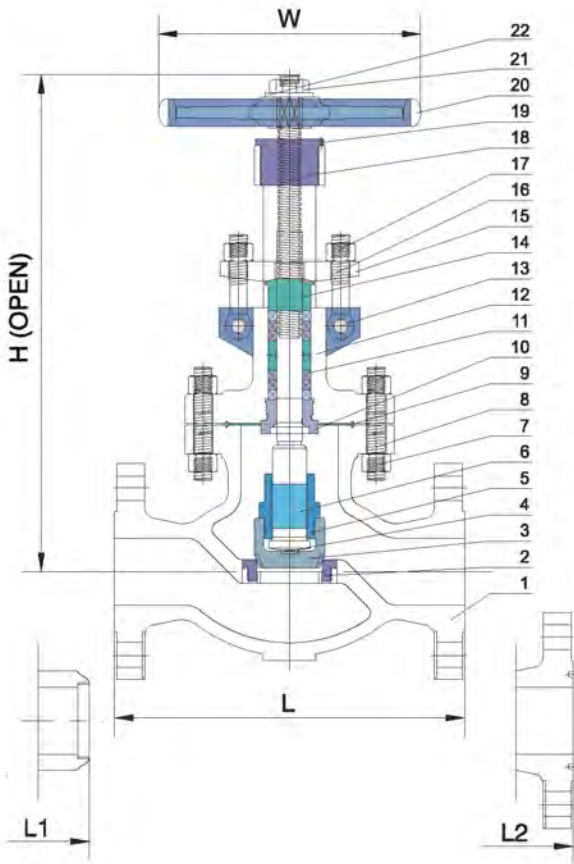


Gear Optional



Dimensions and Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	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



FEATURES

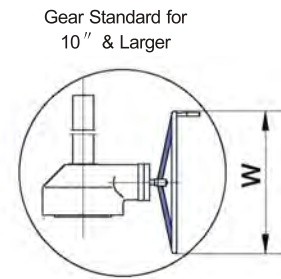
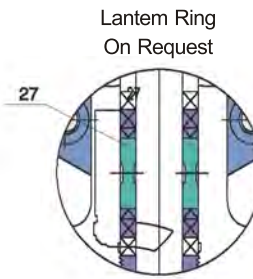
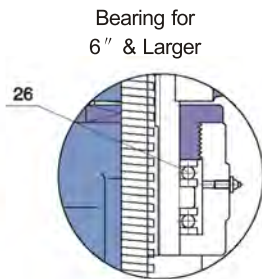
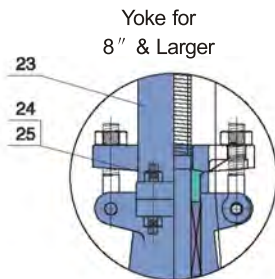
OS & Y,Rising Stem
Bolted Bonnet
Conic Disc
Extended Bonnet for Cryogenic Services
Impact hand wheel Optional
Gear Optional

SPECIFICATIONS

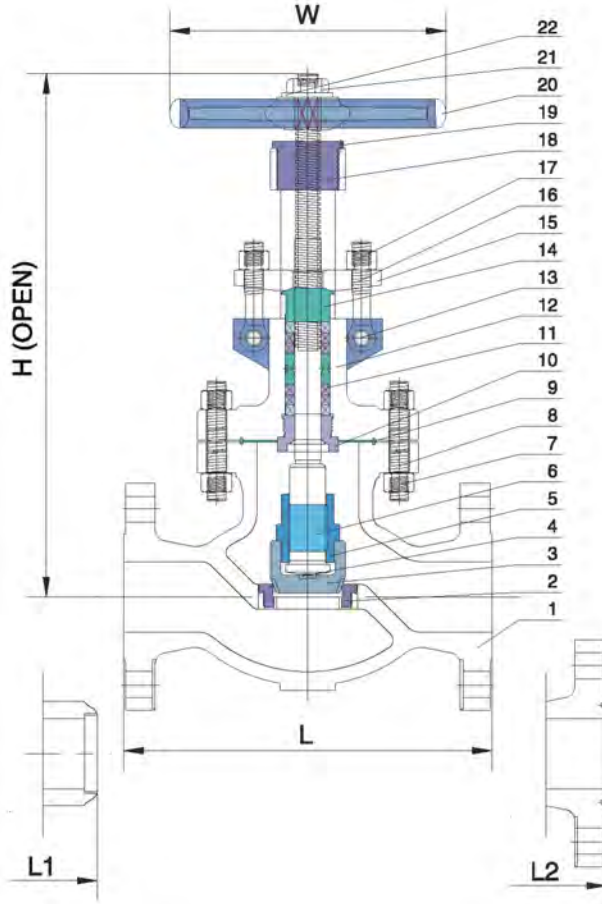
Design	ASME B16.34/BS1873
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

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	Caibon 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	2"	2.5"	3"	4"	6"	8"	10"	12"	
	mm	50	65	80	100	150	200	250	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	



FEATURES

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

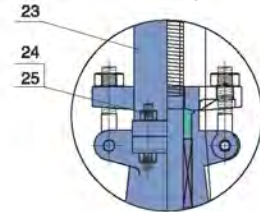
SPECIFICATIONS

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

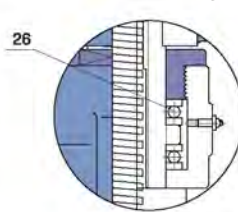
STANDARD MATERIALS OF PARTS

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	Caibon 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

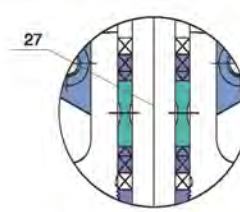
Yoke for 6" & Larger



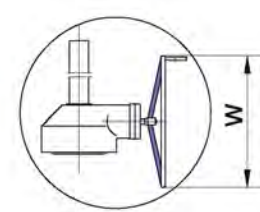
Bearing for 4" & Larger



Lantern Ring On Reques



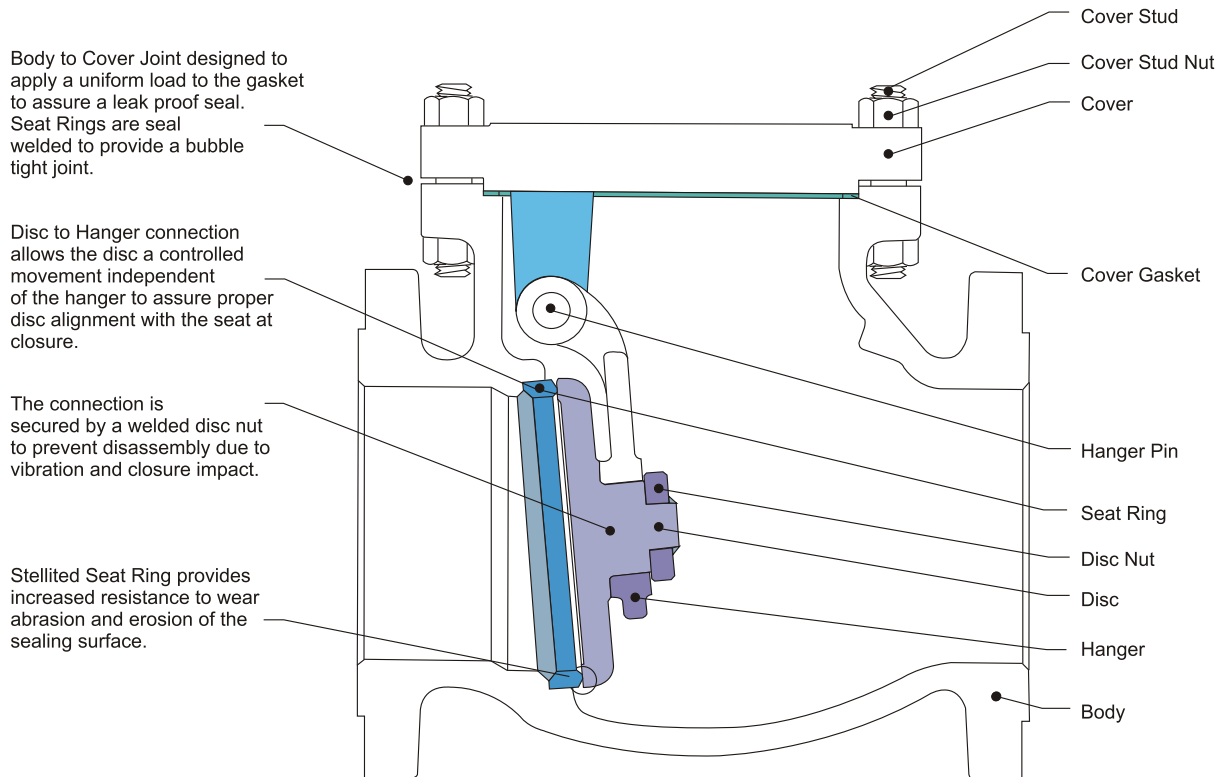
Gear Standard for 6" & Larger



Dimensions and Weights		CALSS 900						CALSS 1500						CALSS 2500					
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



Cast Steel Swing Check Valve





FEATURES

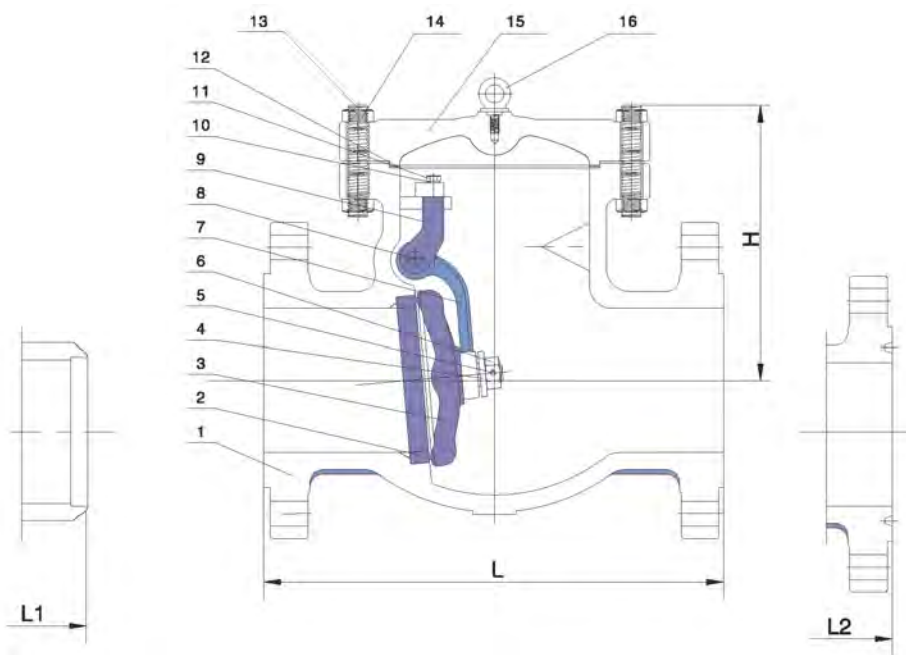
Bolted Cover
Swing Type Disc
6" & Larger With Eye Bolt
By Pass On Request
Lever & Wight Optional

STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM 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

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



FEATURES

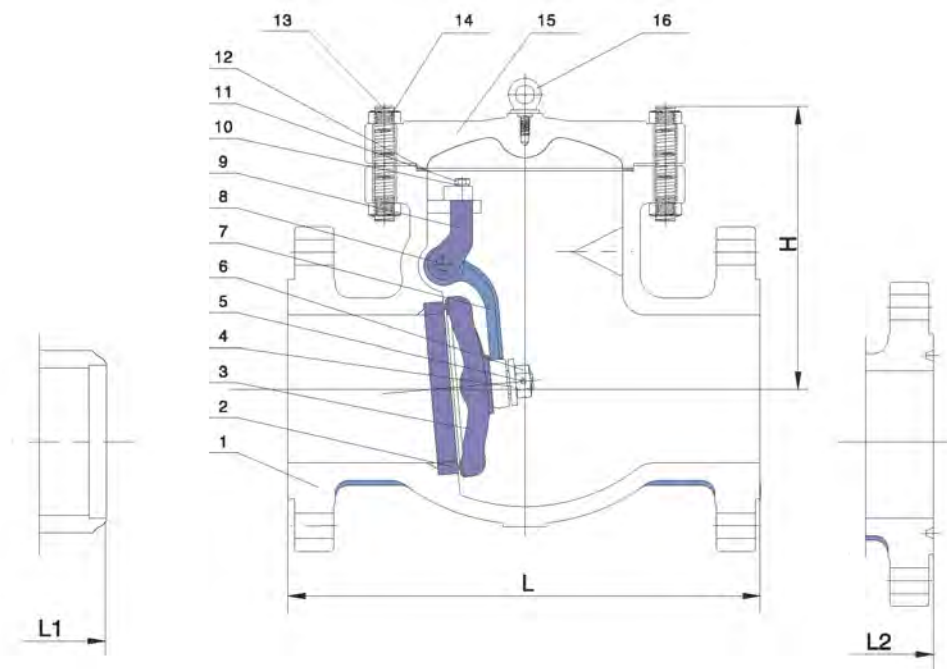
Bolted Cover
Swing Type Disc
4 " & Larger With Eye Bolt
By Pass On Request
Lever & Wight Optional

STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM 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

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	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	83/8	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	640	1025	1320	1960



FEATURES

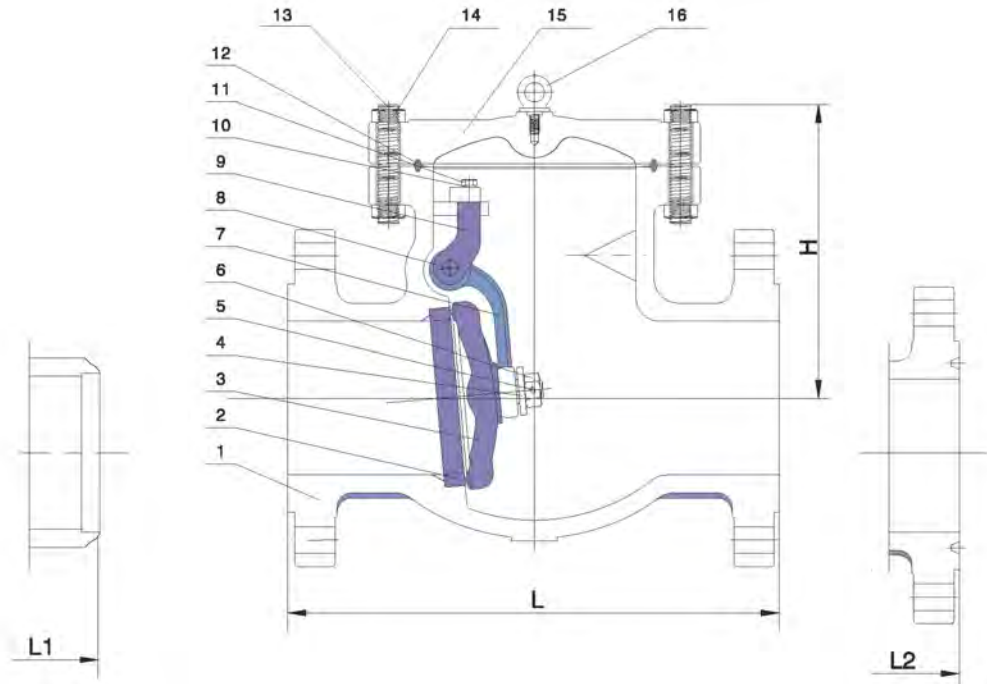
Bolted Cover
Swing Type Disc
With Eye Bolt
By Pass On Request
Lever & Wight Optional

STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM 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

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



FEATURES

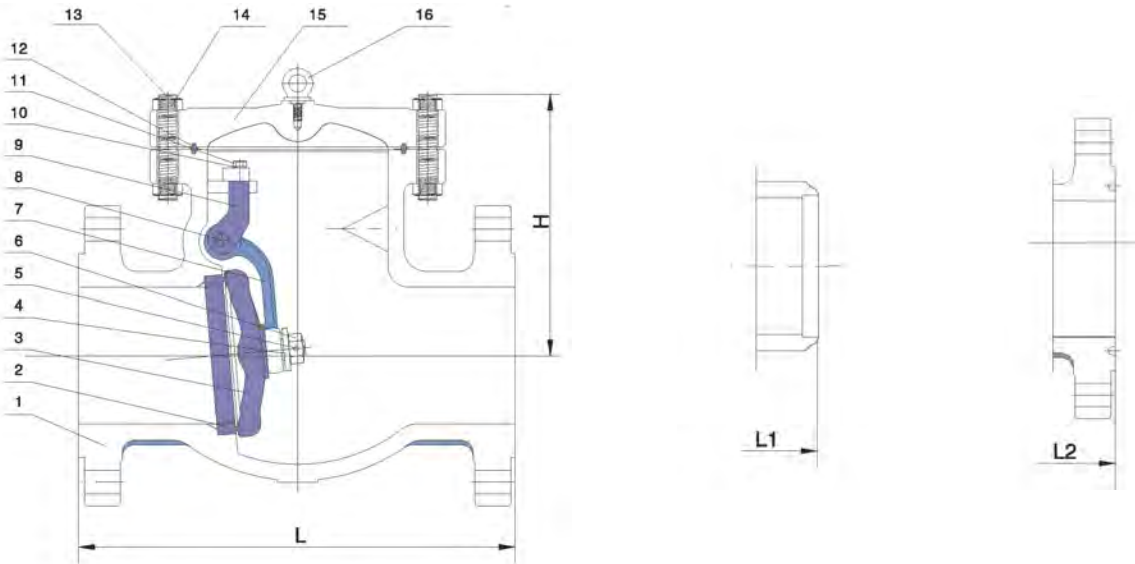
Bolted Cover
Swing Type Disc
With Eye Bolt
By Pass On Request
Lever & Wight Optional

STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM 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

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										
	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	2"	2.5"	3"	4"	6"	8"	10"	12"	in	2"	2.5"	3"	4"	6"	8"	10"	12"	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300	mm	50	65	80	100	150	200	250	300	mm	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	in	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50	in	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	mm	368	419	470	546	705	832	991	1130	mm	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	in	14.62	16.62	18.62	21.62	28.00	33.13	39.38	38.12	in	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	mm	371	422	473	549	711	841	1000	1146	mm	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	in	11.65	11.81	13.43	16.22	20.12	26.77	29.76	33.74	in	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	mm	296	300	341	412	511	680	756	857	mm	416	419	441	479	511	711	851	1000
Weight RF	kg	70	100	91	150	305	510	810	1120	kg	70	100	150	245	550	1010	1550	2280	kg	145	240	330	650	1400	2420	3750	5500



CAST STEEL GATE VALVE STANDARD MATERIALS OF PARTS

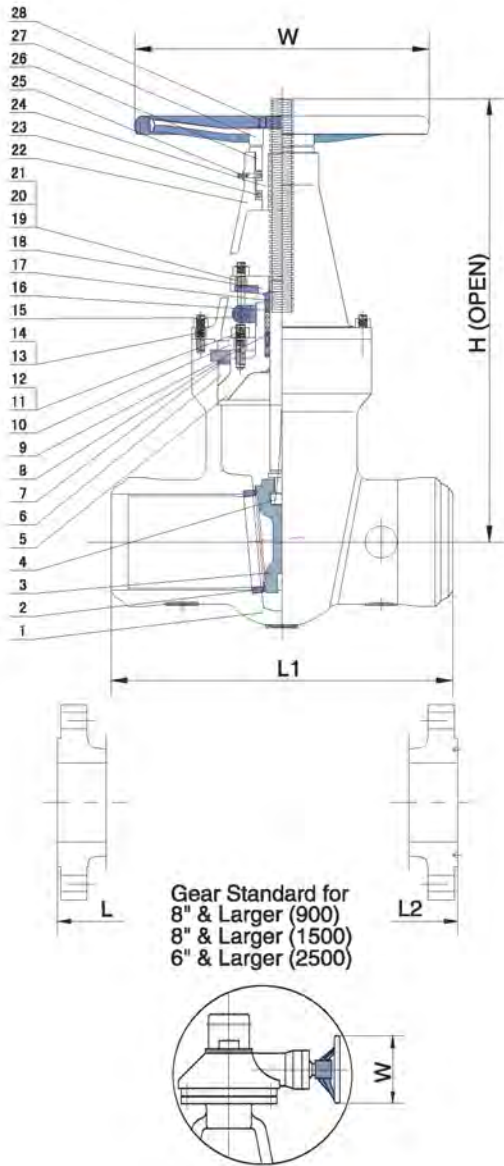
ITEM	PART NAME	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL					
1	Body	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C	
2	seat ring	A105	A350 LF2	A350 LF2	A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321	
3	disc	A216 WCB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



FEATURES

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

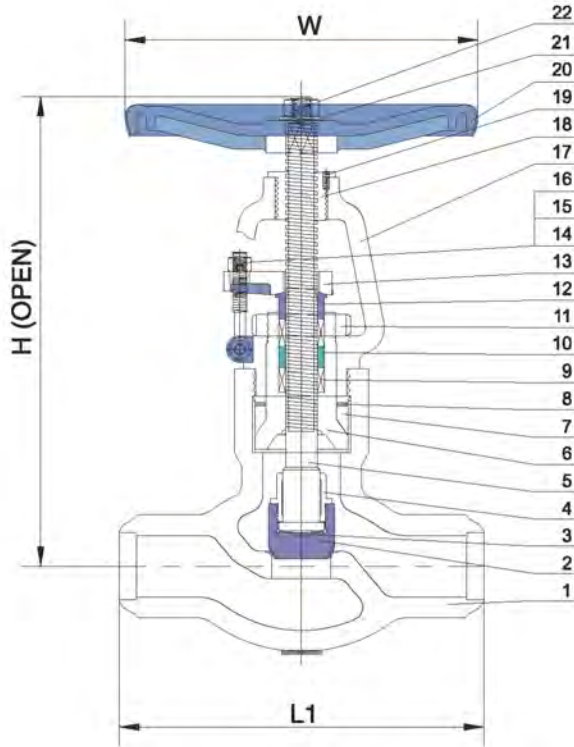
STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR.WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR. WCB+Stellite Faced
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	
L	in	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	
	mm	368	419	381	457	610	737	838	965	450	508	578	673	914	1022	1270	1422	368	419	470	546	705	832	991	1130	
L1	in	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	
	mm	216	254	305	356	508	660	787	914	279	330	368	457	610	762	914	1041	216	254	305	406	559	711	864	991	
L2	in	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	
	mm	371	422	384	460	613	740	841	968	454	514	584	683	927	1038	1292	1445	371	422	473	549	711	842	100	146	
H	in	24.41	30.00	30.71	33.86	40.35	50.63	60.63	70.28	24.00	30.55	30.90	34.40	44.02	53.46	66.14	74.50	24.00	30.55	30.90	34.40	40.35	53.46	61.74	74.50	
	mm	620	762	780	860	1025	1286	1540	1785	610	776	785	874	1118	1358	1680	1892	610	776	785	874	1025	1358	1568	1892	
W	in	12	14	14	16	20	24	24	24	14	18	18	20	24	24	24	24	12	16	16	20	24	24	24	24	
	mm	300	350	350	400	500	610	610	610	350	450	450	500	610	610	610	610	300	400	400	500	600	610	610	610	
Weight RF	kg	50	72	86	110	202	530	782	1135	60	112	122	192	480	830	1678	2320	50	92	92	145	230	540	1060	1184	



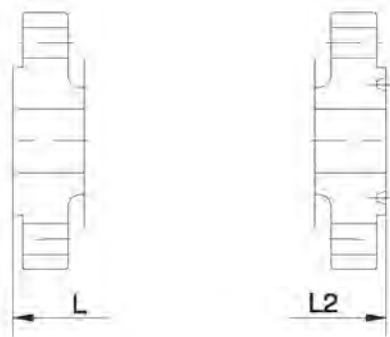
Pressure Seal Globe Valve Class 900-2500



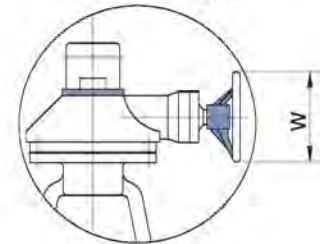
OS & Y, Rising Stem	Design	ASME B16.34
Pressure Seal	Face to Face	ASME B16.10
Conic Disc	End to End	ASME B16.10
Backseat Weld-Deposited	End Flange	ASME B16.5
By Pass On Request	BW End	ASME B16.25
Locking Device Optional	Test	API 598
Gear Optional	Special	NACE MR-01-75

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	Caibon Steel
12	Gland	ASTM A276 Type 410
13	Gland Flange	ASTM A216 GR.WCB
14	Eye Bolt Pins	Caibon 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



Gear Standard for
 6" & Larger (900)
 6" & Larger (1500)
 4" & Larger (2500)



Dimensions and Weights		CALSS 900						CALSS 1500						CALSS 2500					
SIZE		2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"	2"	2.5"	3"	4"	6"	8"
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	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



FEATURES

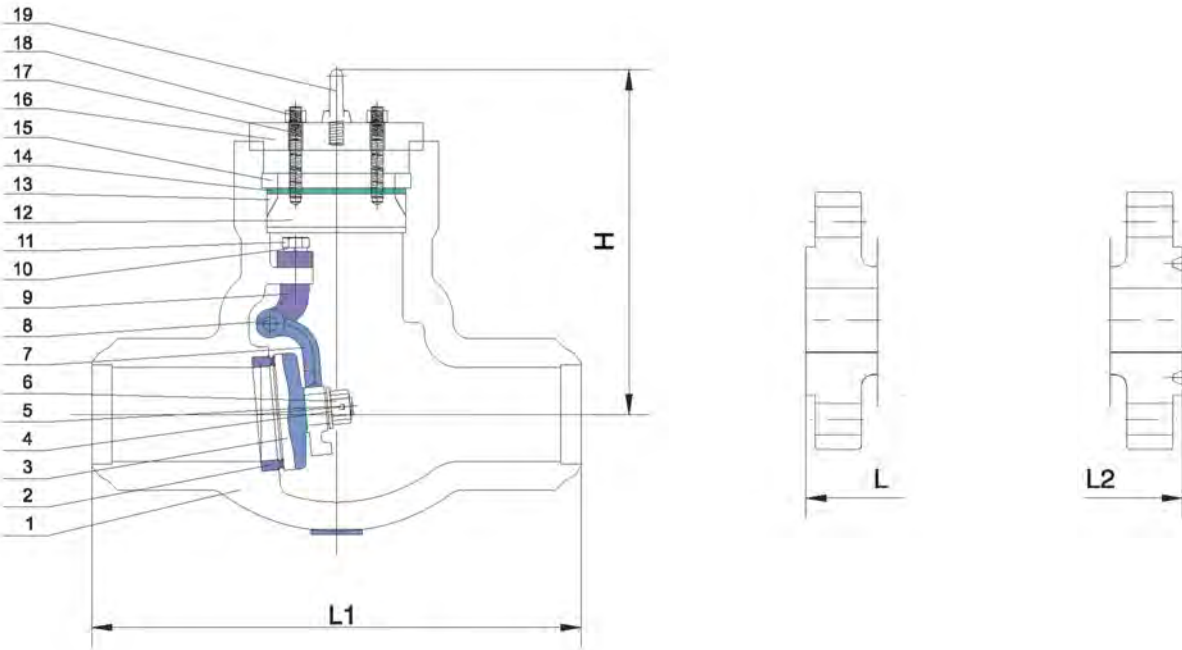
Pressure Seal
Swing Type Disc
Type 1 Standard
Type 2 Optional
With Eye Bolt
By Pass On Request
Lever & Wight Optional

SPECIFICATIONS

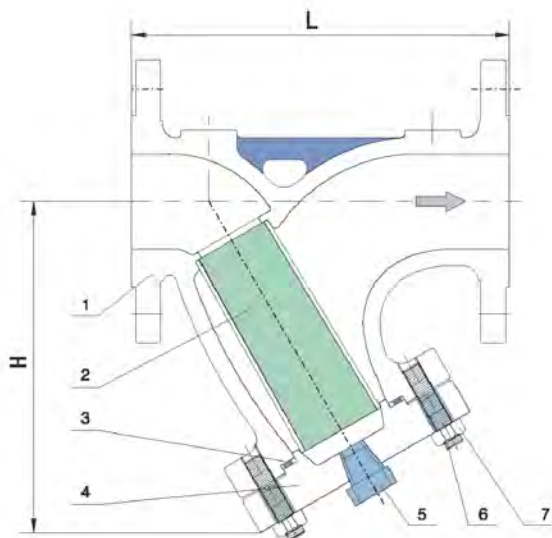
Design	ASME B16.34
Face to Face	ASME B16.10
End to End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

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	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



Dimensions and Weights	CALSS 900								CALSS 1500								CALSS 2500								
	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"
SIZE	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
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	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	45.12	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	416	419	441	479	511	711	851	1000
Weight BW	kg	50	77	68	115	230	387	632	910	50	77	115	190	452	845	1280	1780	110	190	260	535	1110	1980	2980	4350



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

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



Stem Data & Operation Torques



Gate Valve

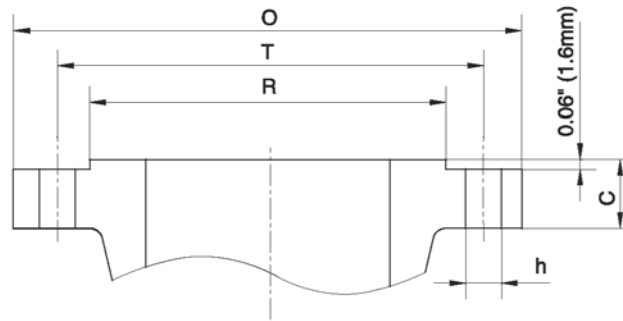
CLASS	ITEM	VALVE SIZE																
		2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	32"
150	Stem Thread O.D.	3/4"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/4"	2 1/2"	2 3/4"	3"	
	Thread Per Inch	5	5	5	5	5	4	4	4	3	3	3	3	3	3	3	2	
	Pitch(in)	0.2	0.2	0.5	0.2	0.2	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	99	74
	Torque(N.m)	16	18	24	38	76	111	182	269	325	435	565	748	1256	1587	1935	2127	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 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 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		



CLASS 150 300 RF



CLASS	SIZE		O		R		C		T		h		Boit	
	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
	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	
300	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

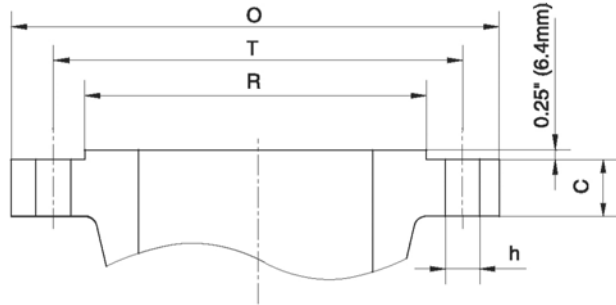
0.25 Raised Face: ±0.02



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



CLASS 600-2500 RF



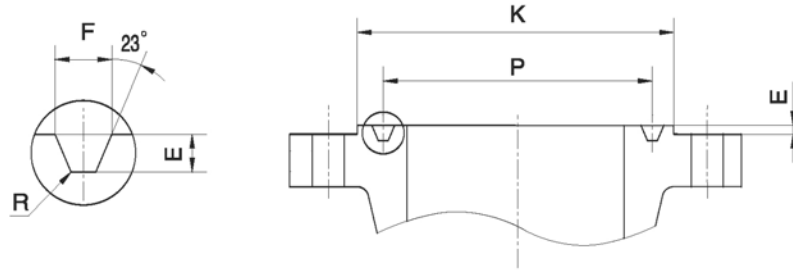
CLASS	SIZE		O		R		C		T		h		Boit	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	QTY.	Diameter
600	2	50	6.50	165	3.62	92	1.00	26	5.00	127	0.75	19	8	5/8
	2.5	65	7.50	190	4.12	105	1.12	29	5.88	149	0.88	22	8	3/4
	3	80	8.25	210	5.00	127	1.25	32	6.62	168	0.88	22	8	3/4
	4	100	10.75	273	6.19	157	1.50	38	8.50	216	1.00	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	
900	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
	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	
1500	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	200.0	1.25	32	8	1 1/4
	4	100	12.25	311	6.19	157	2.12	54.0	9.50	240.0	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
	10	250	23.00	585	12.75	324	4.25	108.0	19.00	489.0	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	701.2	2.62	67	16	2 5/8
	18	450	36.00	915	21.00	533	6.38	162.0	30.50	771.2	2.88	74	16	2 7/8
	20	500	38.75	985	23.00	584	7.00	178.0	32.75	837.2	3.12	80	16	3 1/8
24	600	46.00	1170	27.25	692	8.00	203.5	39.00	990.7	3.62	93	16	3 5/8	
2500	2	50	9.25	235	3.62	92	2.00	51.0	6.75	170.0	1.12	29	8	1
	2.5	65	10.50	267	4.12	105	2.25	57.5	7.75	190.0	1.25	32	8	1 1/8
	3	80	12.00	305	5.00	127	2.62	67.0	9.00	225.0	1.38	35	8	1 1/4
	4	100	14.00	356	6.19	157	3.00	76.5	10.75	262.5	1.62	42	8	1 1/2
	6	150	19.00	483	8.50	216	4.25	108.0	14.50	367.5	2.12	54	8	2
	8	200	21.75	550	10.62	270	5.00	127.0	17.25	437.5	2.12	54	12	2
	10	250	26.50	675	12.75	324	6.50	165.5	21.50	540.0	2.62	67	12	2 1/2
	12	300	30.00	760	15.00	381	7.25	184.5	24.38	612.5	2.88	74	12	2 3/4



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	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	396.88	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	
36	900	R98	40.250	1022.35	0.562	14.3	0.906	23.019	0.09	2.3	40.75	1035		
300	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	
	600	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	533.40	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
	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	533.40	0.688	17.48	1.188	30.18	0.09	2.3	24.12	613	
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	
2500	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

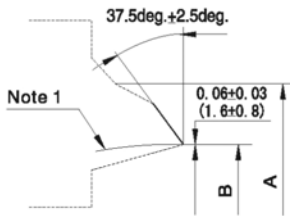
End Flange Dimensions: Size2 " -24 " to ASME B16.5, Size 28 " -36 " to ASME B16.47 A.

Tolerances: Unit inch

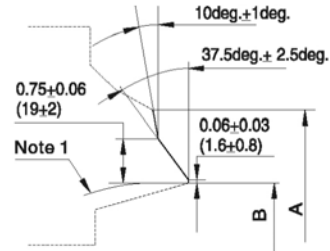
- Depth E: +0.016,-0
- Width F: ±0.008
- Pitch Diameter P: ±0.005
- Radius at Bottom R: R ≤ 0.06 " ±0.03,0
- R ≥ 0.06 ±0.03
- Angle 23 Deg: ±0.5Deg



Buttwelding End Dimensions ASME B16.25



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



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

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
		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
300	12	STD	323.8	12.75	329	12.97	305	12.000	306.08	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
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	292.07	11.498	35.71	1.106		



Buttwelding End Dimensions ASME B16.25



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	in	mm	in		
400	16	STD	406.4	16.00	413	16.25	387.5	15.250	388.68	15.303	9.53	0.375		
		40					381	15.000	383.14	15.084	12.70	0.500		
		60					373	14.688	376.21	14.811	16.66	0.656		
		80					363.5	14.312	367.84	14.482	21.44	0.844		
		100					354	13.938	359.53	14.155	26.19	1.031		
		120					344.5	13.562	351.18	13.826	30.96	1.219		
		140					333.5	13.124	341.43	13.422	36.53	1.438		
		160					325.5	12.812	334.50	13.170	40.49	1.594		
450	18	STD	457.2	18.00	464	18.28	438	17.250	439.48	17.303	9.53	0.375		
		XS					432	17.000	433.94	17.084	12.70	0.500		
		40					428.5	16.876	431.19	16.975	14.27	0.562		
		60					419	16.500	422.82	16.646	19.05	0.750		
		80					409.5	16.124	414.46	16.318	23.83	0.938		
		100					398.5	15.688	404.78	15.936	29.36	1.156		
		120					387.5	15.250	395.03	15.553	34.93	1.375		
		140					378	14.876	386.77	15.225	39.67	1.562		
500	20	STD	508.0	20.00	516	20.31	489	19.250	490.28	19.303	9.53	0.375		
		XS					482.5	19.000	484.74	19.084	12.70	0.500		
		40					478	18.812	480.55	18.920	15.09	0.594		
		60					467	18.376	470.88	18.538	20.62	0.812		
		80					455.5	17.938	461.13	18.155	26.19	1.031		
		100					443	17.438	450.02	17.717	32.54	1.281		
		120					432	17.000	440.29	17.334	38.10	1.500		
		140					419	16.500	429.17	16.896	44.45	1.750		
550	22	160	558.8	22.00	567	22.34	408	16.062	419.44	16.513	50.01	1.969		
		STD					539	21.250	541.08	21.303	9.53	0.375		
		XS					533	21.000	535.54	21.084	12.70	0.500		
		60					514	20.250	518.86	20.428	22.23	0.875		
		80					501	19.750	507.75	19.990	28.58	1.125		
		100					488.5	19.250	496.63	19.553	34.93	1.375		
		120					476	18.750	485.52	19.115	41.28	1.625		
		140					463	18.250	474.41	18.678	47.63	1.875		
600	24	160				450.5	17.750	463.30	18.240	53.98	2.125			
		STD	609.6	24.00	619	24.38	590.5	23.250	591.88	23.303	9.53	0.375		
		XS					584	23.000	586.34	23.084	12.70	0.500		
		30					581	22.876	583.59	22.975	14.27	0.562		
		40					574.5	22.624	577.97	22.755	17.48	0.688		
		60					560.5	22.062	565.49	22.263	24.61	0.969		
		80					547.5	21.562	554.38	21.826	30.96	1.219		
		100					532	20.938	540.49	21.280	38.89	1.531		
650	26	120				517.5	20.376	528.03	20.788	46.02	1.812			
		140				505	19.876	516.91	20.350	52.37	2.062			
		160				490.5	19.312	504.37	19.857	59.54	2.344			
		10	660.4	26.00	670	26.38	645.5	25.376	645.50	25.413	7.92	0.312		
		20					635	25.000	637.14	25.084	12.70	0.500		
		700	28	10	711.2	28.00	721	28.38	695.5	27.376	696.30	27.413	7.92	0.312
				20					686	27.000	687.94	27.084	12.70	0.500
				30					679.5	26.750	682.37	26.865	15.88	0.625
750	30	10	762.0	30.00	772	30.38	746	29.376	747.10	29.413	7.92	0.312		
		20					736.5	29.000	738.74	29.084	12.70	0.500		
		30					730	28.750	733.17	28.865	15.88	0.625		
800	32	10	812.8	32.00	825	32.50	797	31.376	797.90	31.413	7.92	0.312		
		20					787.5	31.000	789.54	31.084	12.70	0.500		
		30					781	30.750	783.97	30.865	15.88	0.625		
		40					778	30.624	781.17	30.755	17.48	0.688		
850	34	10	863.6	34.00	876	34.50	848	33.376	848.70	33.413	7.92	0.312		
		20					838	33.000	840.34	33.084	12.70	0.500		
		30					832	32.750	834.77	32.865	15.88	0.625		
		40					828.5	32.624	831.97	32.755	17.48	0.688		
900	36	10	914.4	36.00	927	36.50	898.5	35.376	899.50	35.413	7.92	0.312		
		20					889	35.000	891.50	35.084	12.70	0.500		
		30					882.5	34.750	885.57	34.865	15.88	0.625		
		40					876.5	34.500	880.02	34.646	19.05	0.750		

NORES:

(1) Letter designations signify

(a) STD=standard wall thickness

(b) XS=extra-strong wall thickness

(c) XXS=double extra-strong wall thickness

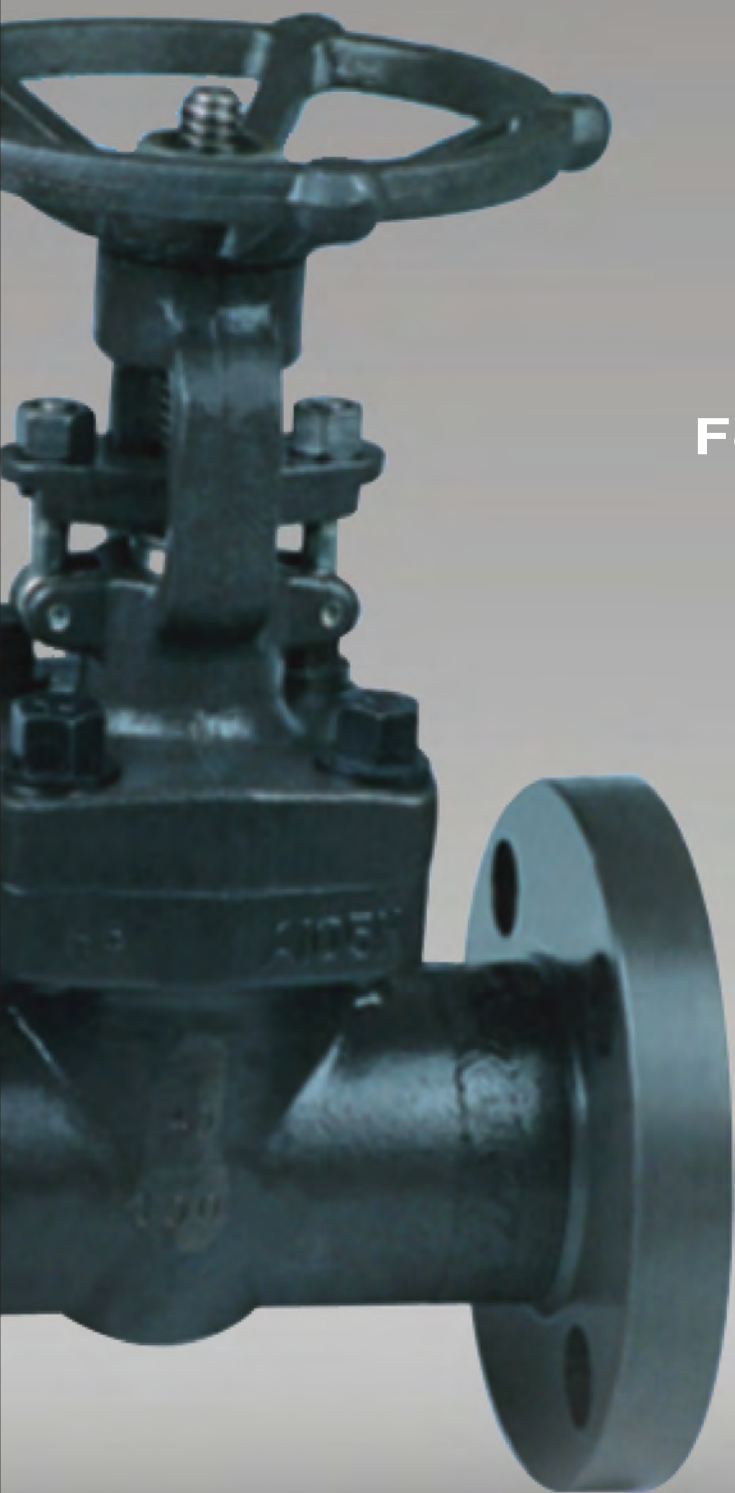
(2) The diameters listed are not requirements. They are provided for the convenience of the user.

(3) Interanal machining for continuous backing rings for sizes DN 50(NPS 2)and smaller is not contemplated.

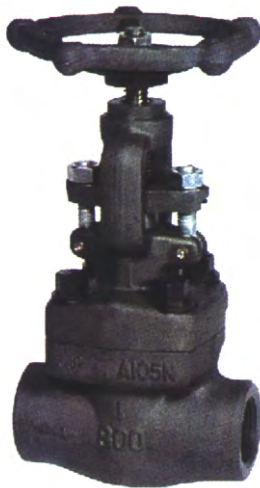


Material	CHEMICAL COMPOSITIONS(%) max									MECHANICAL PROPERTIES				
	C	Mn	P	S	Si	Ni	Cr	Mo	Other	Tensile, min MPa(ksi)	Yield, min MPa(ksi)	Elongation min (%)	Reduction of Area min(%)	Hardness Brinell
WCB	0.30	1.00	0.04	0.045	0.60	0.50	0.50	0.20	Cu 0.30 V0.03	485-655 (70-95)	250(36)	22	35	
WC1	0.25	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	1.50	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	

По всем вопросам обращайтесь в наш офис ООО "ТИ-Системс":
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Эл. почта: info@tisis.ru Интернет: www.tisis.ru www.tisis.kz www.tisis.by www.tesec.ru



Forged Steel Gate Valve



Bolted bonnet



Welded bonnet



Pressure seal bonnet

Gate valve Design Construction and Specifications

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

Construction:

Full Port or Conventional Port

Outside Screw and Yoke(OS&Y)

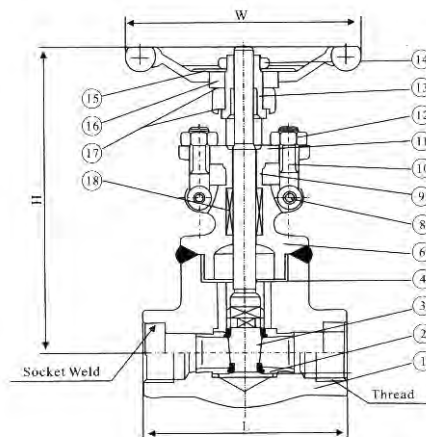
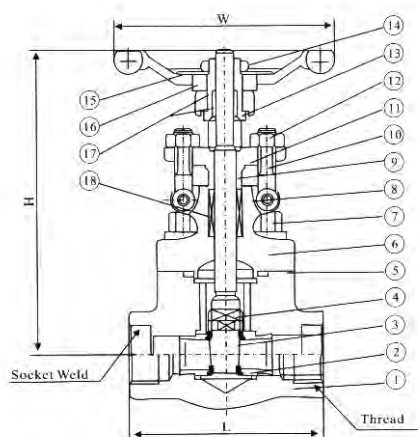
Two piece self aligning packing gland

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



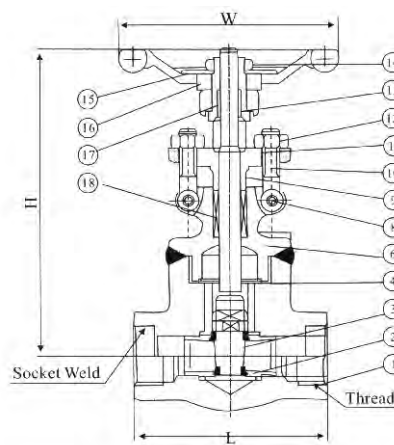
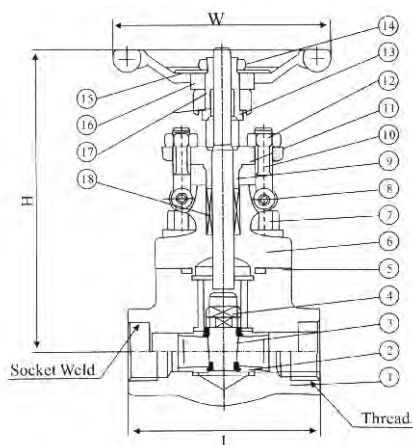
Standard Material Specifications

No	Part Name	Asto 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	-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	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



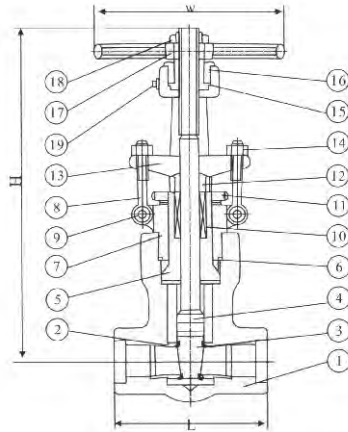
Standard Material Specifications

No	Part Name	CS to ASTM	Asto 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°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		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



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°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)		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



Bolted bonnet



Welded bonnet



Pressure seal bonnet

Globe valve Design Construction and Specifications

FEVISA 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)

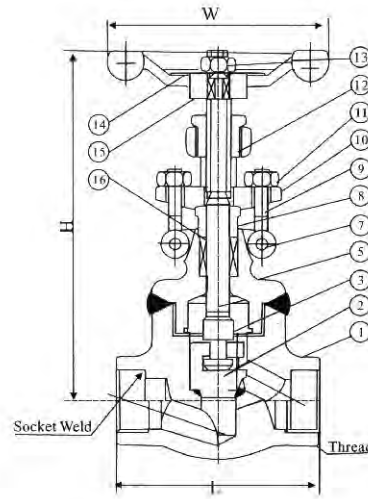
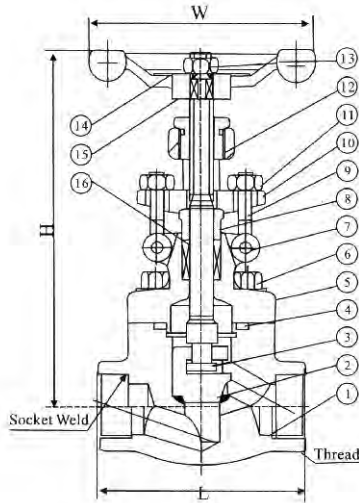
Two piece self-aligning packing gland

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



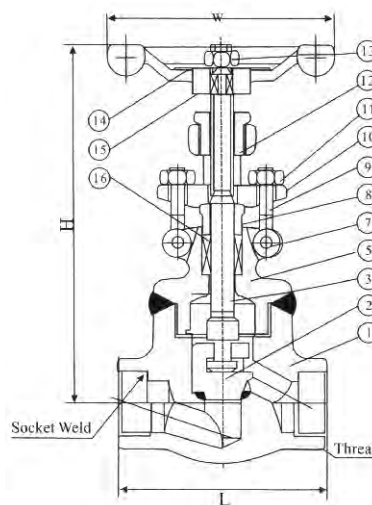
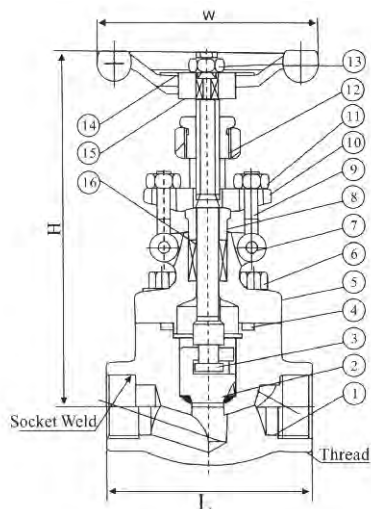
Standard Material Specifications

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



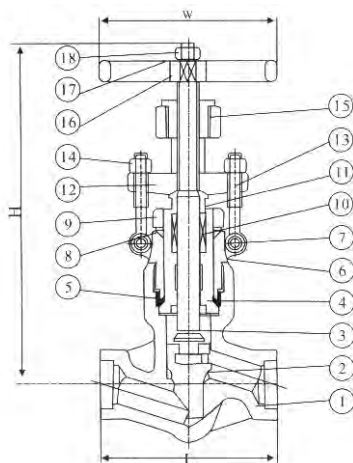
Standard Material Specifications

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



Standard Material Specifications

No	Part Name	CS to 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



Bolted bonnet



Welded bonnet



Pressure seal bonnet

Check valve Design Construction and Specifications

FEVISA 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

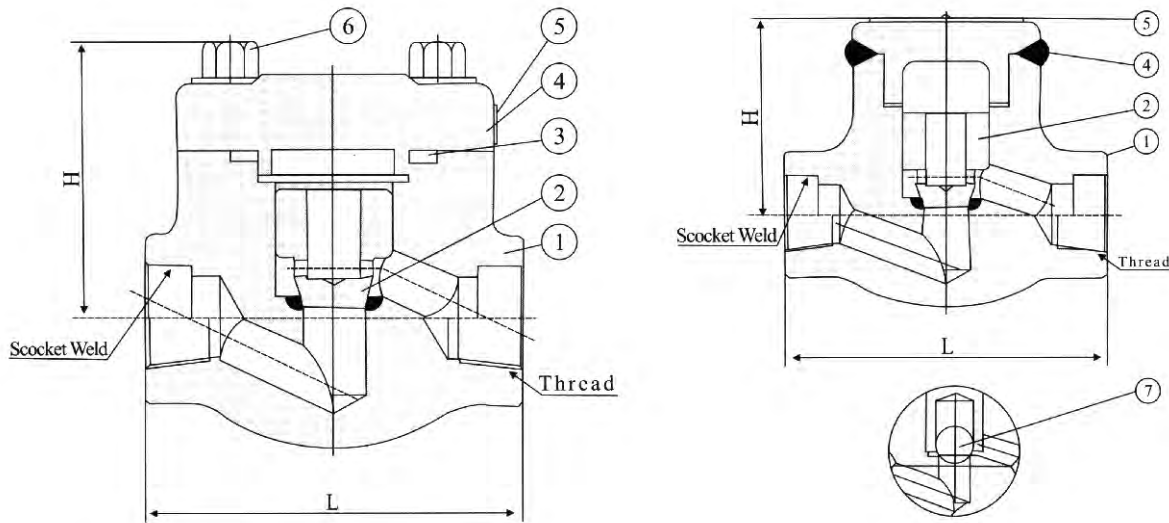
Swing check

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



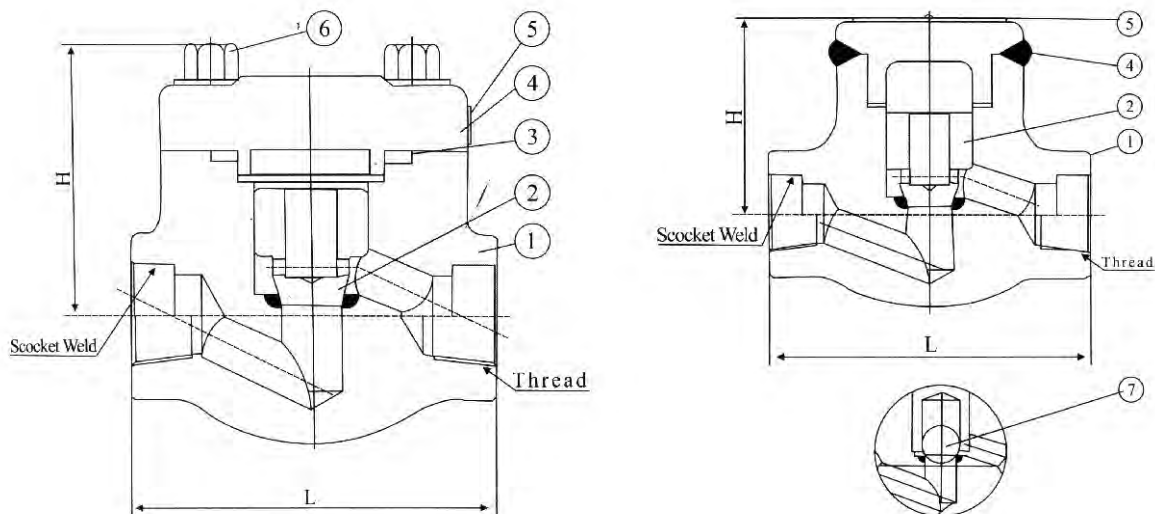
Standard Material Specifications

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



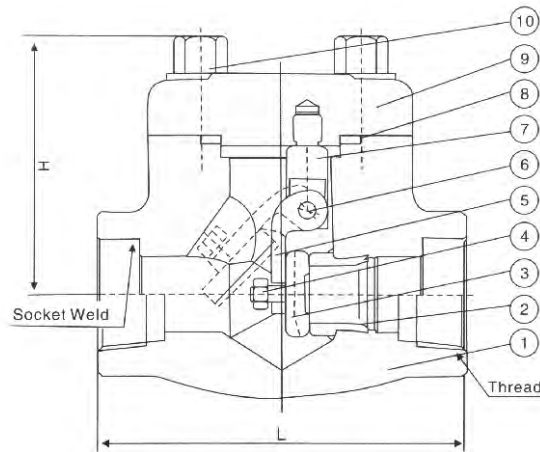
Standard Material Specifications

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



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	

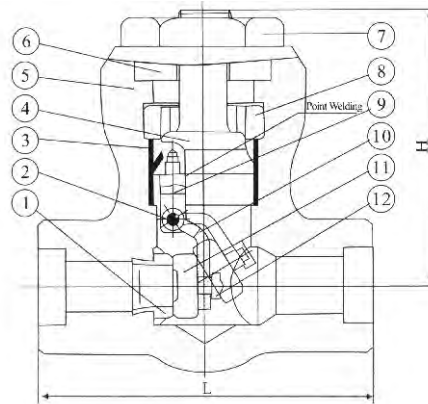
Note: Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

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°C~425°C	-29°C~550°C	-29°C~180°C	

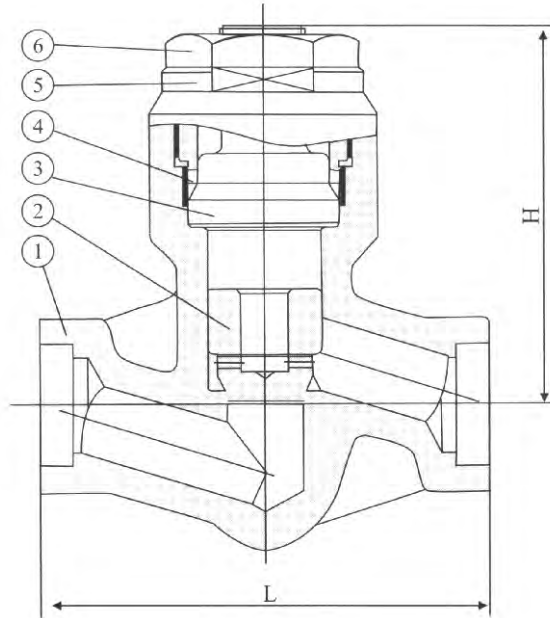
Note: Other materials are available upon request. CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	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°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	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

VALVULAS INDUSTRIALES
FEVISA



Forged Steel Flanged End Valves



**TALLERES
JESUS ALVAREZ, S.A.**
Forged Steel Valve
Series



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.

FEVISA 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 ANSIB 16.10

ANSI B16.5 F16.5 Flanges according to ANSIB 16.5

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

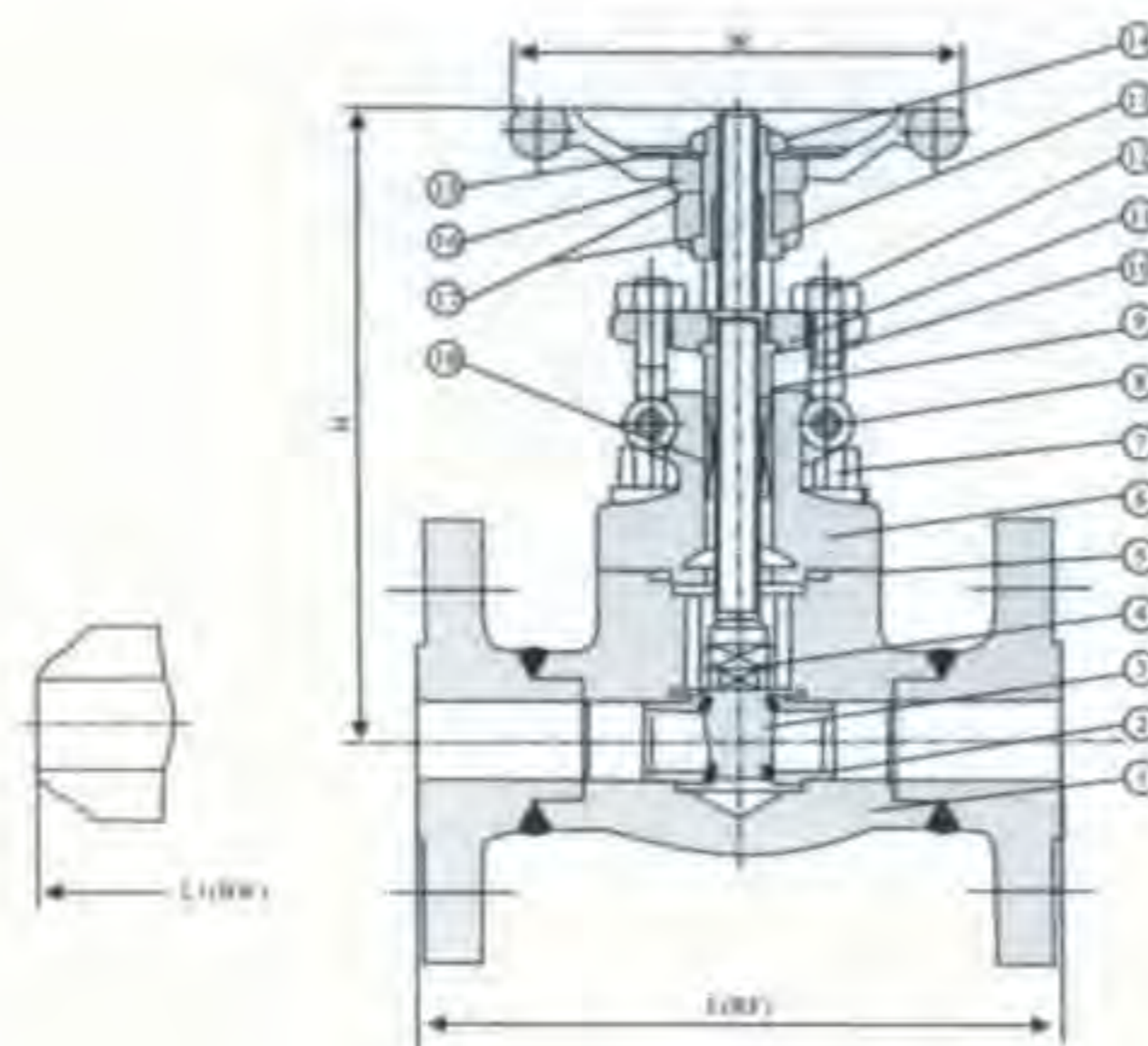
RTJ body bonnet gasket ring joint type

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

VALVULAS INDUSTRIALES
FEVISA



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	Flxible 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;

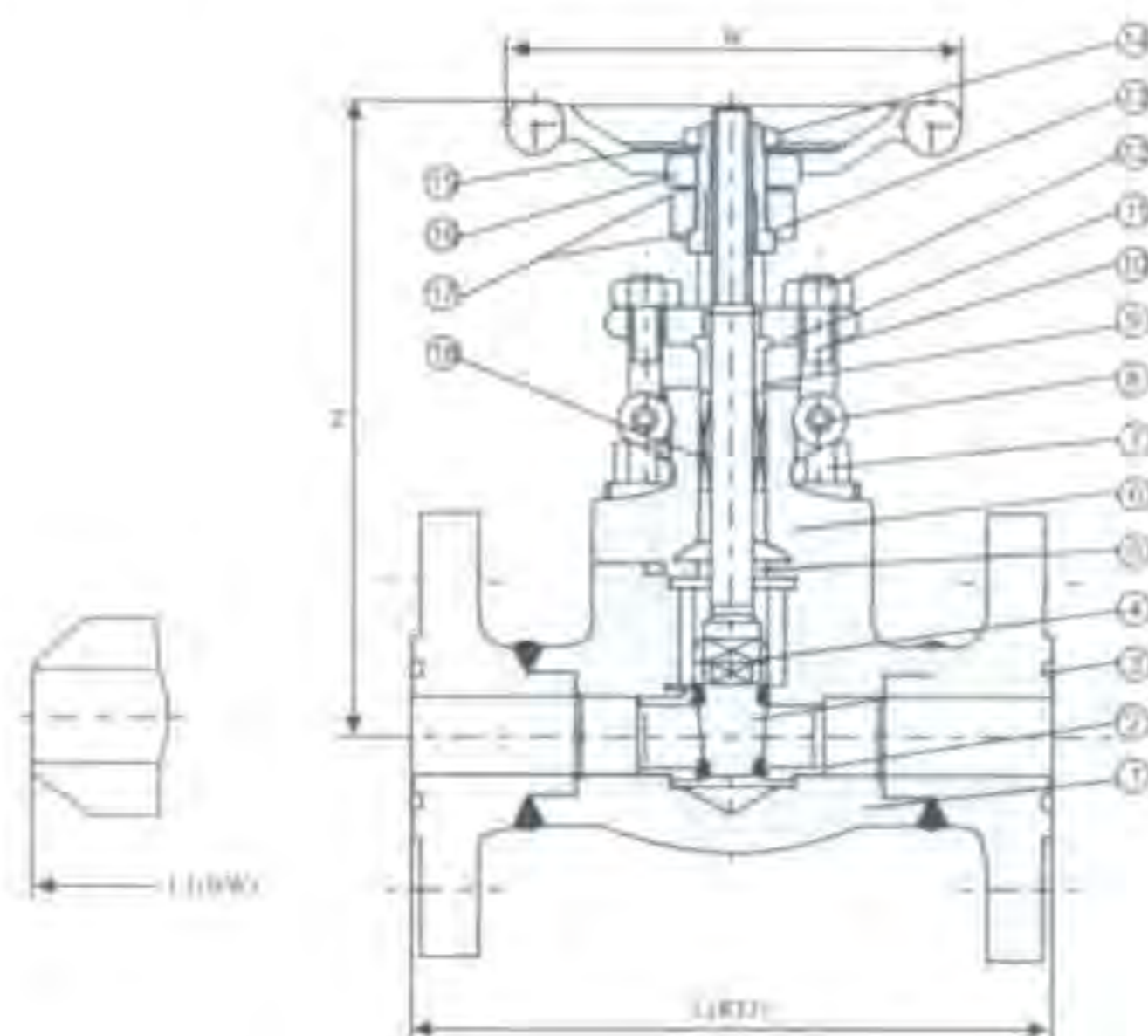
Dimensions(mm) and Weights(Kg)

NPS		1/2	3/4	1	1 1/4	1 1/2	2	
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	12.5	20.3
		BW	2.8	3.3	5.4	7.1	8.2	12.5
	300	RF	4.8	6.2	9.3	14	15.5	23.4
		BW	3.5	4.4	6.8	8.1	9.2	15.4
	600	RF	5.9	7.4	10.4	16.2	17.5	28.3
		BW	4.5	5.1	8.2	10.5	12.4	20.1

VALVULAS INDUSTRIALES
FEVISA



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;

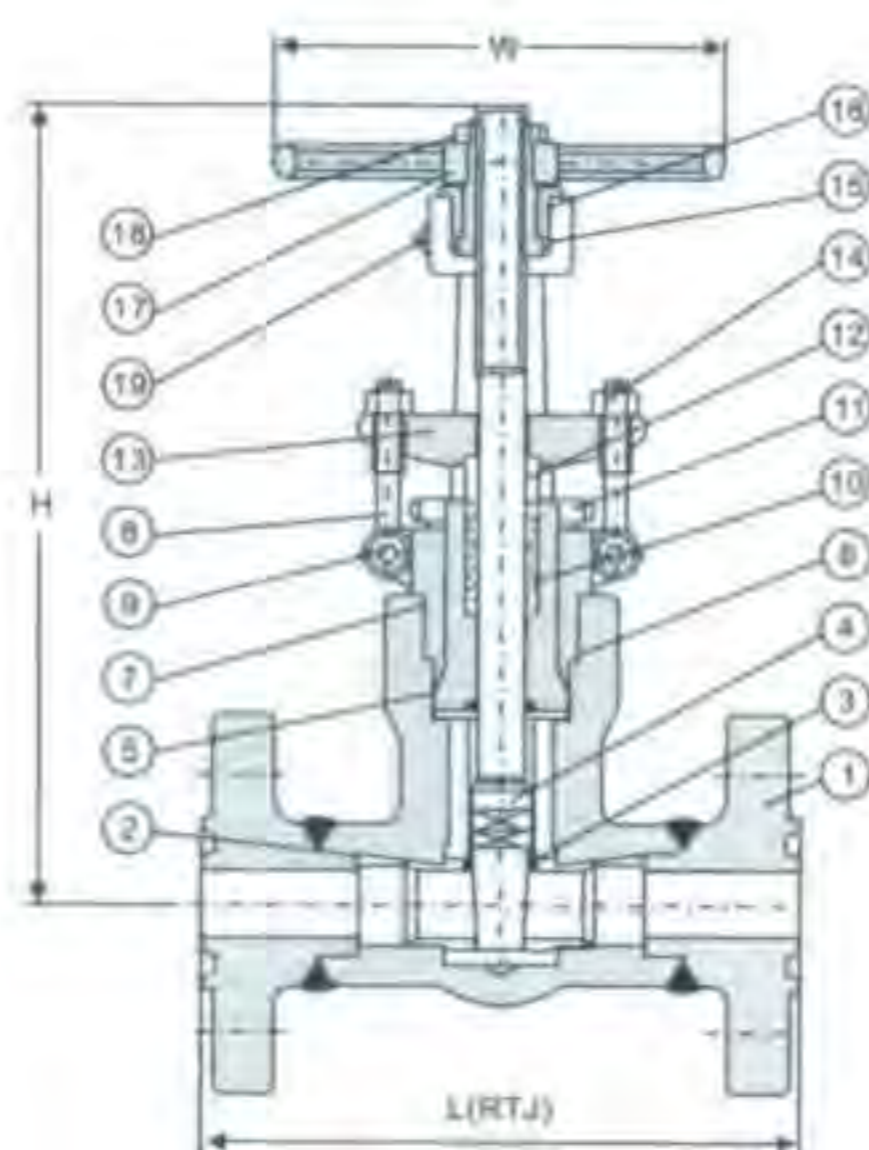
Dimensions(mm) and Weights(Kg)

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

VALVULAS INDUSTRIALES
FEVISA



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	182 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

VALVULAS INDUSTRIALES

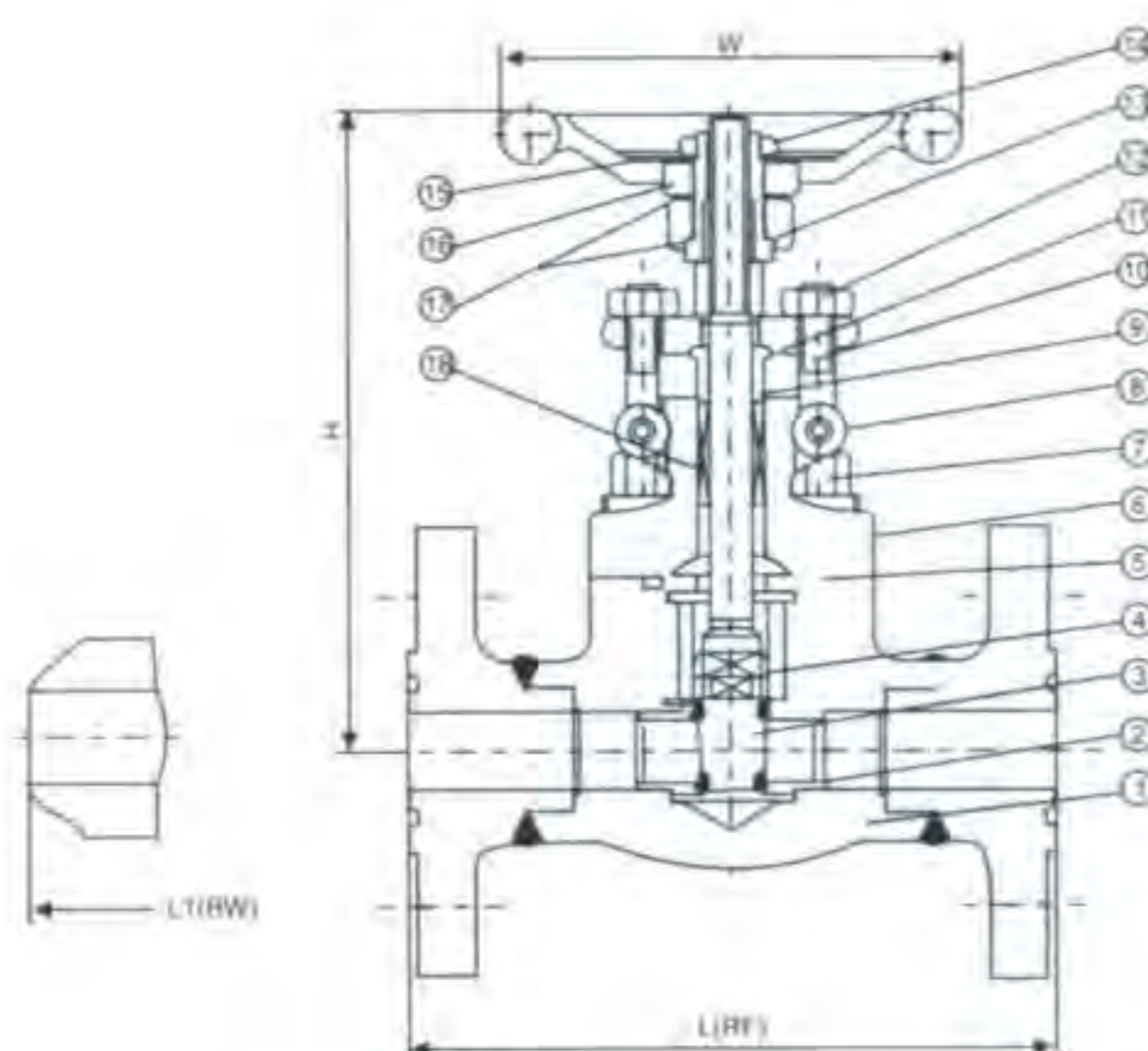
FEVISA



Flanged End Globe Valve 150Lb ~ 600Lb



TALLERES
JESUS ALVAREZ, S.A.
Forged Steel Valve
Series



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;

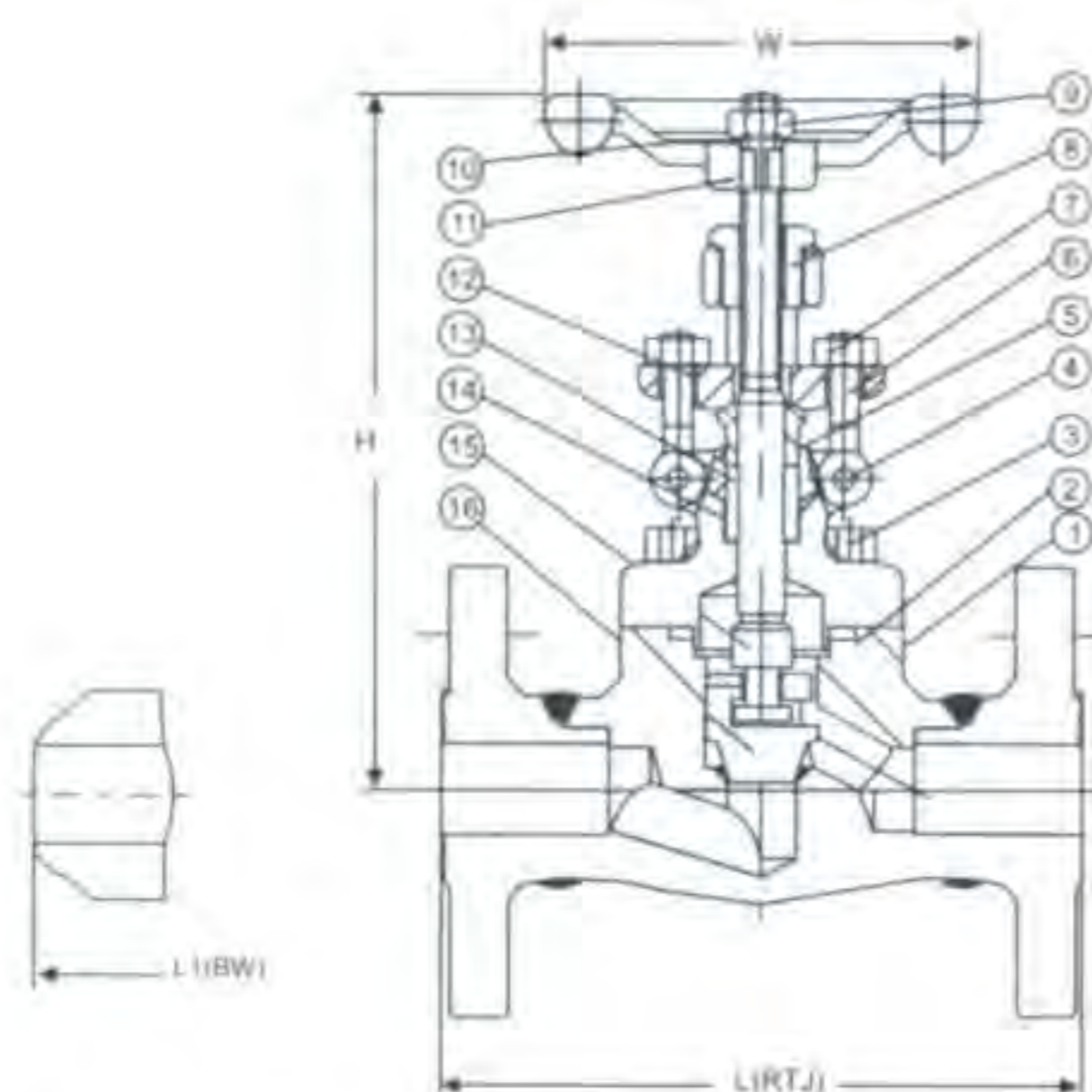
Dimensions(mm) and Weights(Kg)

		NPS	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
		600	165	190	216	229	241	292
H(OOPEN)		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	28.0
		BW	2.3	3.6	7.8	8.2	12.0	15.0
	300	RF	4.8	7.7	11.0	16.8	21.2	32.6
		BW	2.8	4.0	8.5	9.2	12.6	16.8
	600	RF	5.6	7.8	12.5	17.0	23.5	38.8
		BW	3.4	4.7	9.2	10.5	13.3	18.9

VALVULAS INDUSTRIALES
FEVISA



Flanged End Globe Valve 900Lb~1500Lb



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	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;

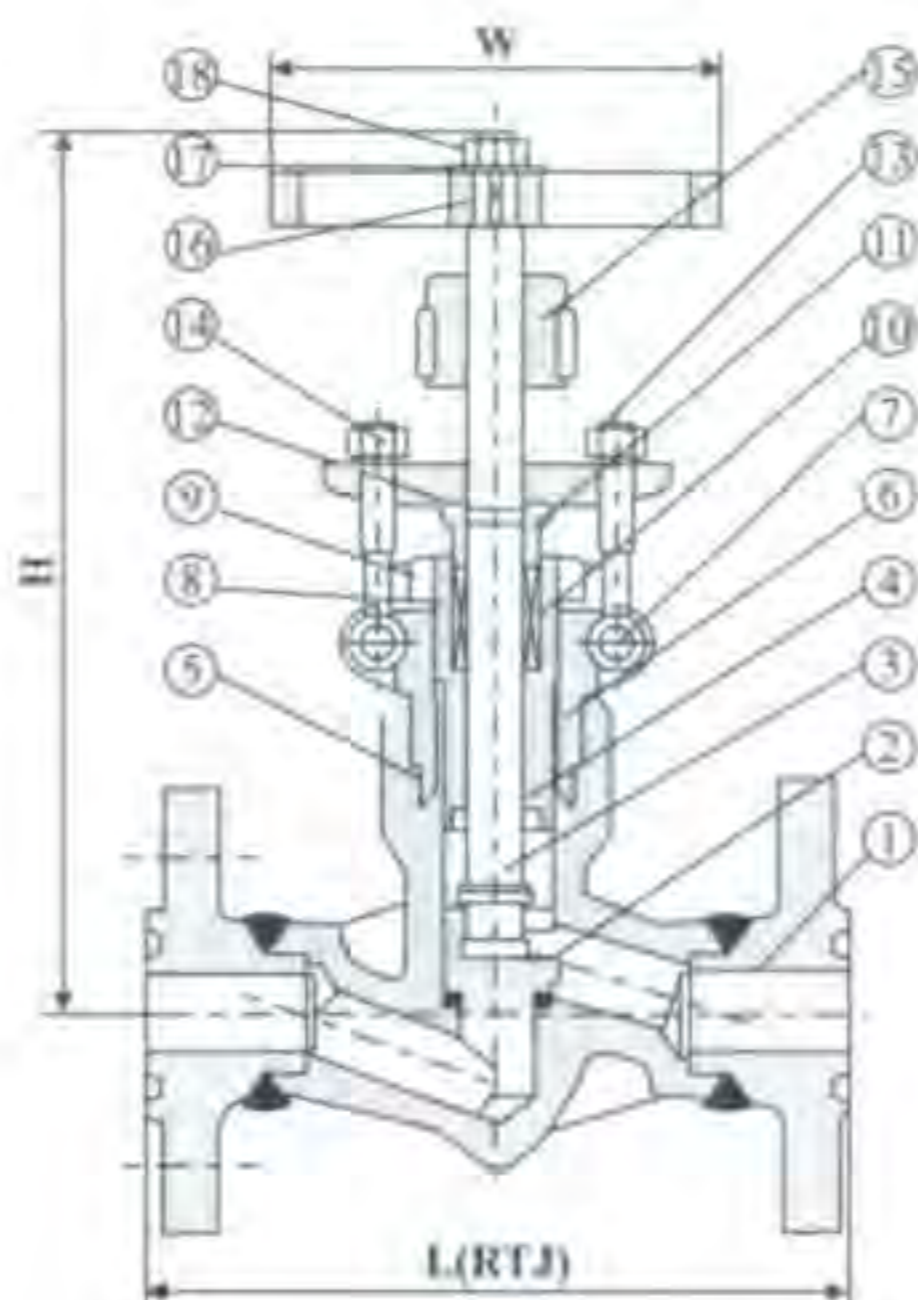
Mm&kg Dimensions(mm)and Weights(Kg)

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

VALVULAS INDUSTRIALES
FEVISA



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°C~425°C	-29°C~550°C	-29°C~180°C	

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

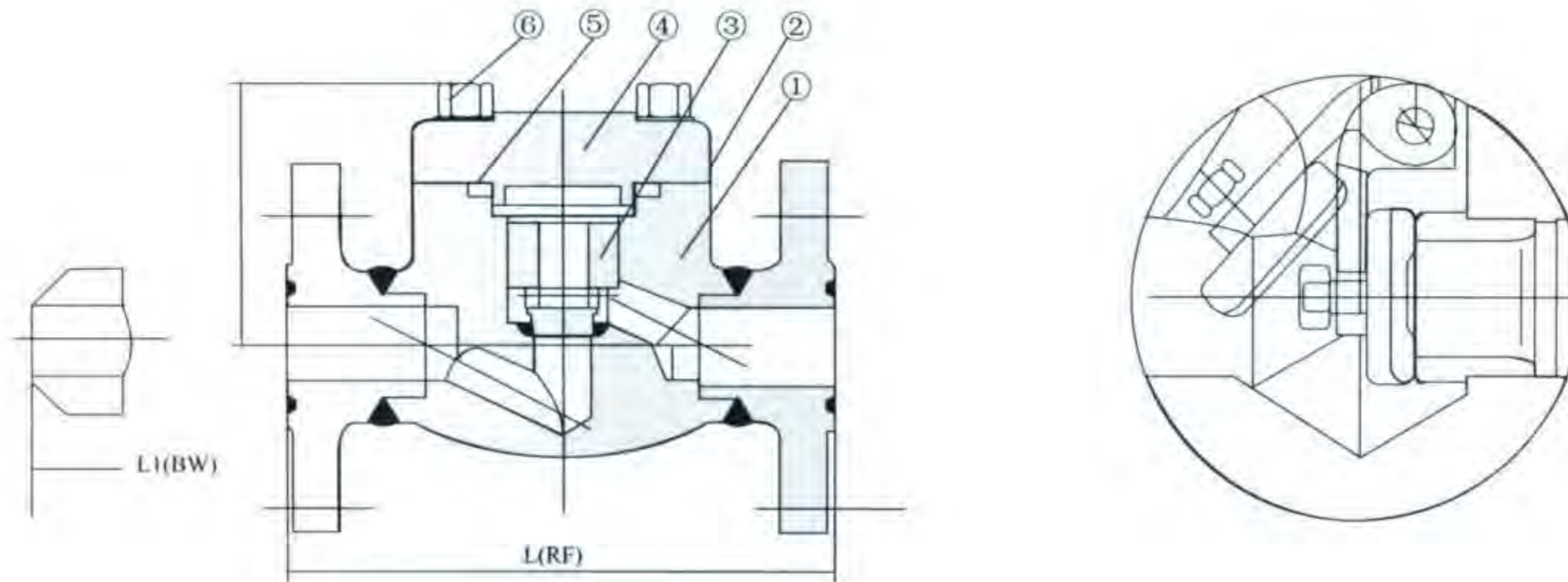
VALVULAS INDUSTRIALES
FEVISA



Flanged End Check Valve 150Lb~600Lb



**TALLERES
JESUS ALVAREZ, S.A.**
Forged Steel Valve
Series



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°C~550°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;

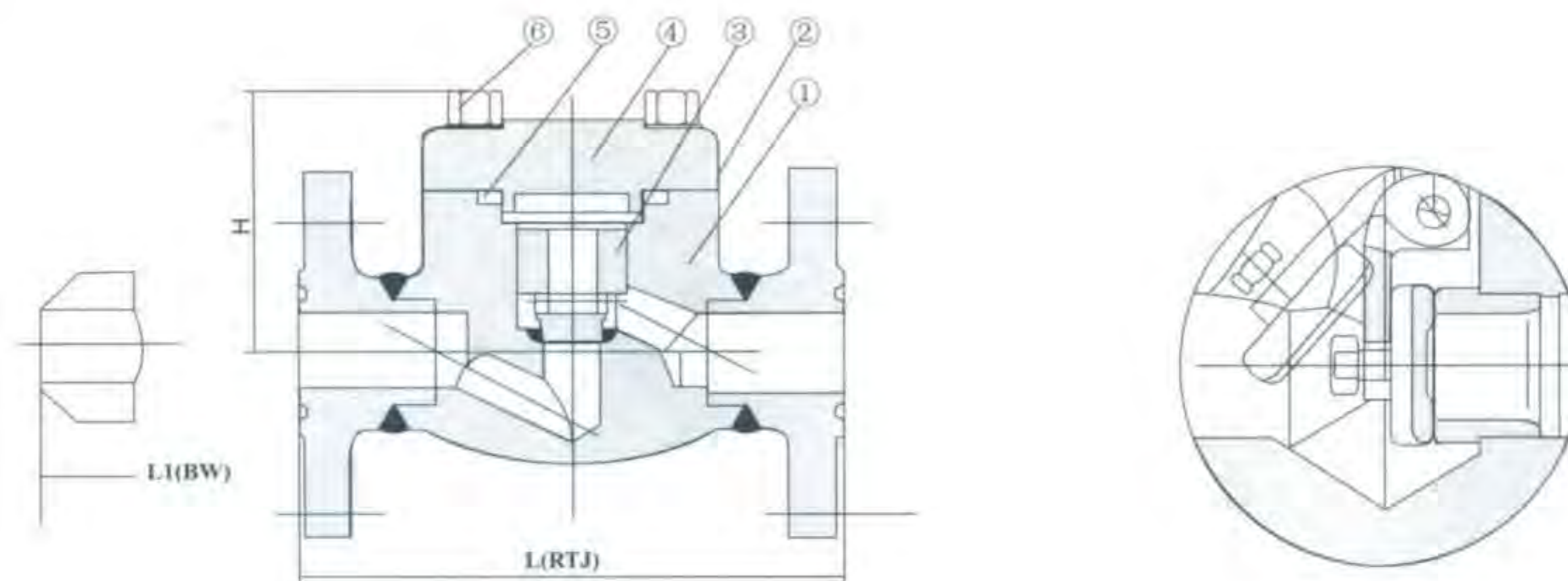
Dimensions(mm)and Weights(Kg)

NPS		1/2	3/4	1	1 1/4 "	1 1/2 "	2	
L(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	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	8.94	12.64
		BW	1.70	1.90	2.10	5.12	5.50	7.89
	300	R F	2.73	3.65	4.74	8.77	9.60	13.70
		BW	1.90	2.10	3.00	5.12	6.60	7.85
	600	R F	3.00	4.00	5.83	9.47	10.10	15.6
		BW	2.00	3.12	4.25	7.25	8.56	13.60

VALVULAS INDUSTRIALES
FEVISA



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;

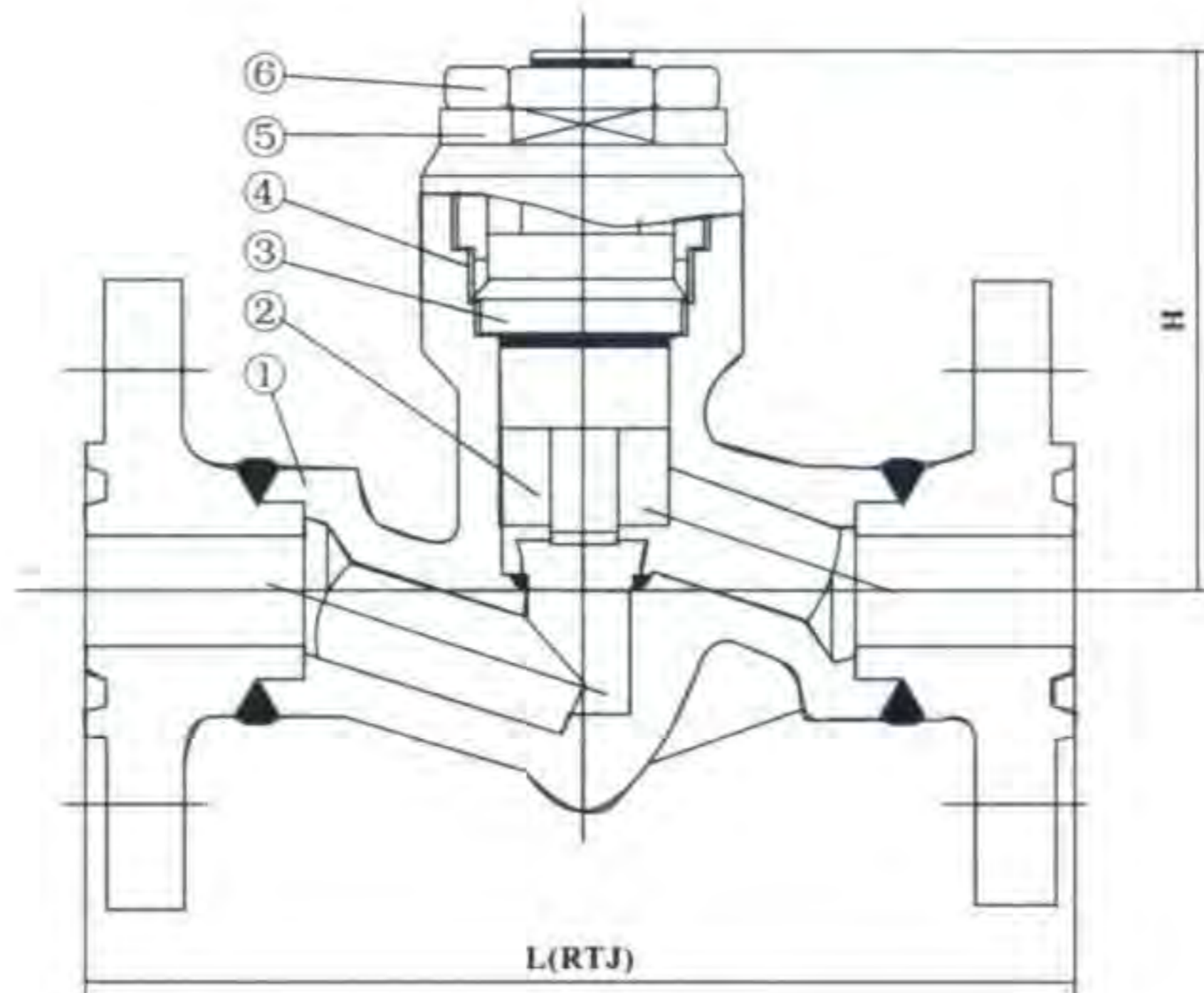
Mm&kg Dimensions(mm)and Weights(Kg)

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

VALVULAS INDUSTRIALES
FEVISA



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