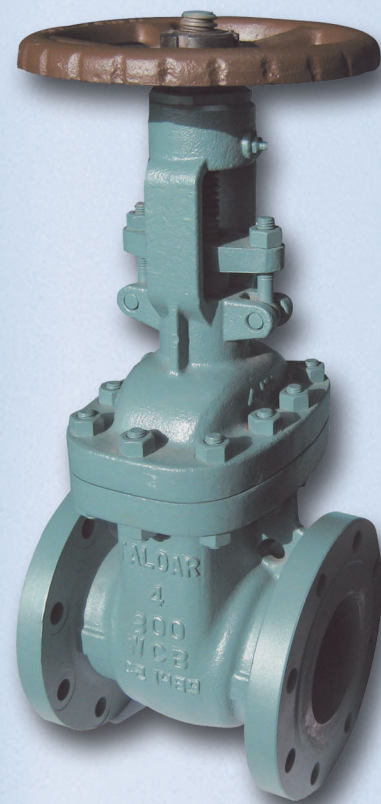


TALOAR®

www.taloor.com

Global Flow
Control Combination+GFCC



TALOAR INC

Stainless, Carbon & Forged Valves
GATE VALVE CHECK VALVE BUTTERFLY VALVE

CATALOG IT-03/2006

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INDUSTRY VALVES CODE LEGEND

Gate, Globe, Strainer and Check Valve Figure Number System

Stainless Steel, Cast Steel and Forged Steel Valves

A111-S6 (Stainless Steel Gate Valves)

Type	Pressure	Body	End	Other
A - Gate Valve	1 - 1.6Mpa(200PSI)	1 - Stainless Steel	1 - Threaded	- S6 (CF8M)
B - Bellows Sealed Gate Valve	2 - 2.0Mpa(300PSI)	2 - Cryogenic Service	2 - Socket Weld	- S4 (CF8)
BG - Bellows Sealed Globe Valve	3 - 5.1Mpa(740PSI)	3 - Cast Steel	3 - Butt Weld	- B Bolted Bonnet
G - Globe Valve	4 - 10.0Mpa(1480PSI)	4 - Forged Steel	4 - Flanged	- w Welded Bonnet
C - Check Valve	5 - 13.0Mpa(1975PSI)			- P Pressure Seal
L - Y-Pattern Valve	6 - 15.0Mpa(2130PSI)			
Y - Strainer	7 - 25.0Mpa(3705PSI)			
	8 - 42.0Mpa(6170PSI)			

* Not all kinds of valves are made in accordance with this figure number system.

*Through years of research and development, TALORAR is bringing you the most economical and best performance valves to suit all your flow control requirements. Our products meet and exceed current standards in the industry.

Stainless Steel Gate Valves 200 PSI/13.8 Bar/Class 125

Solid Wedge • Non-Rising Stem

CONFORMS TO ANSI B16.34 • ANSI B1.20.1

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A351 CF8M
2	Wedge	ASTM A351 CF8M
3	Stem	ASTM A276 316
4	Stem Nut	ASTM A276 316
5	Packing Gland	ASTM A276 316
6	Packing	PTFE
7	Bonnet	ASTM A351 CF8M
8	Gasket	PTFE
9	Gasket	PTFE
10	Stem Holder	ASTM A276 316
11	Stop Ring	ASTM A276 316
12	Gasket	PTFE
13	Handwheel Nut	ASTM A276 304
14	Handwheel Washer	ASTM A276 304
15	HandWheel	ALUMINUM

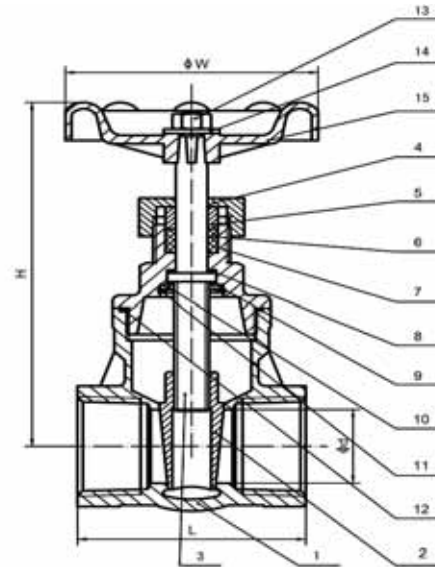
*A111-S6 CF8M Body,
A111-S4 CF8 Body.

*WOG (Water, Oil, Gas) applications.

*For general chemical and industrial services.



A111 - S6
Threaded



DIMENSIONS

Size	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
W	2.76	70	2.76	70	3.15	80	3.15	80	3.54	90	3.94	100
d	0.59	15	0.82	20	1.00	25	1.26	32	1.57	40	1.97	50
L	2.17	55	2.36	60	2.60	66	3.00	76	3.39	86	3.78	96
H	3.62	92	3.90	99	4.45	113	5.04	128	5.79	147	6.61	168

Stainless Steel Globe Valves 200 PSI/13.8 Bar/Class 125

CONFORMS TO ANSI B16.34 • ANSI B1.20.1

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A351 CF8M
2	Disc	ASTM A351 CF8M
3	Stem	ASTM A276 316
4	Gasket	PTFE
5	Bonnet	ASTM A351 CF8M
6	Packing	PTFE
7	Stem Nut	ASTM A351 CF8M
8	Handwheel	ALUMINUM
9	Handwheel Nut	ASTM A276 304
10	Handwheel Washer	ASTM A276 304
11	Gland Ring	ASTM A276 304
12	Stem Packing	PTFE

*G111-S6 CF8M Body,
G111-S4 CF8 Body.

*WOG (Water, Oil, Gas) applications.

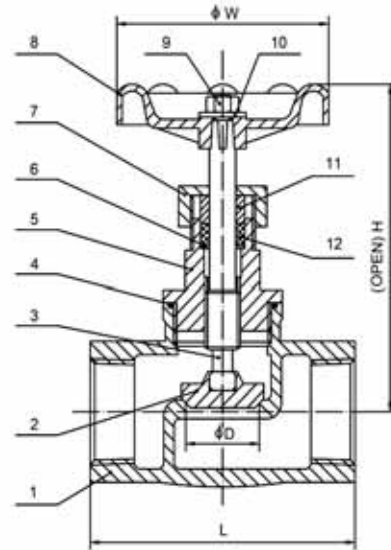
*For general chemical and industrial services.

DIMENSIONS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	
W	2.76	70	2.76	70	3.15	80	3.94	100	3.94	100	3.94	100
D	0.59	15	0.82	20	1.00	25	1.26	32	1.57	40	1.97	50
L	2.64	67	3.23	82	3.54	90	4.09	104	4.72	120	5.55	141
H	3.74	95	4.09	104	4.69	119	5.55	144	6.00	152	6.77	172



G111 - S6
Threaded



Stainless Steel Check Valves 200 PSI/13.8 Bar/Class 125

CONFORMS TO ANSI B16.34 • ANSI B1.20.1

MATERIAL LIST

No.	Part	Materials
1	End Cap	ASTMA351 CF8M
2	Gasket	PTFE
3	Body	ASTMA351 CF8M
4	Hange Pin	ASTMA 276 304
5	Plug Gasket	PTFE
6	Plug	ASTMA 276 304
7	Disc	ASTMA351 CF8M



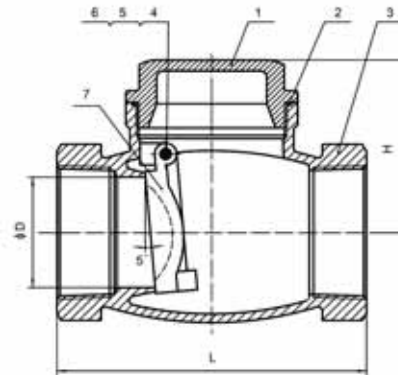
C111 - S6
Threaded

*C111-S6 CF8M Body,
while -S4 meets CF8.

*Applicable to WOG (Water, Oil, Gas)
*For general chemical and industrial services.

DIMENSIONS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
D	0.59	0.79	1.00	1.26	1.57	1.97	2.36	2.95	3.11	3.54	4.13	4.72
L	2.56	3.15	3.54	4.13	4.72	5.51	6.00	6.80	7.50	8.50	9.50	10.50
H	1.69	2.09	2.36	2.95	3.11	3.54	4.13	4.72	5.51	6.00	6.80	7.50



Stainless Steel Y-Strainer 600 PSI/41.4 Bar/Class 300

CONFORMS TO ANSI B16.34 • ANSI B1.20.1

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA351 CF8M
2	Screen	ASTMA276 304
3	Gasket	PTFE
4	Bonnet	ASTMA351 CF8M
5	Gasket	PTFE
6	Plug	ASTMA351 CF8M

*Y311-S6 CF8M Body,
Y311-S4 CF8 Body..

* WOG (Water, Oil, Gas) applications.

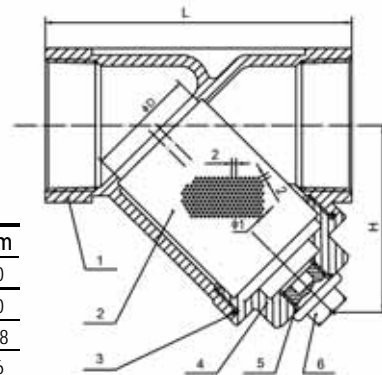
*For general chemical and industrial services.



Y311 - S6
Threaded

DIMENSIONS

Size	In		mm		In		mm		In		mm		In		mm	
	1/4	8	3/8	10	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
D	0.47	12	0.47	12	0.59	15	0.79	20	1.00	25	1.26	32	1.57	40	1.97	50
L	2.56	65	2.56	65	2.56	65	3.15	80	3.54	90	4.13	105	4.72	120	5.43	138
H	1.69	43	1.69	43	1.69	43	2.00	51	2.56	65	2.64	67	3.00	76	3.39	86



Cryogenic Globe Valves

740 PSI/51 Bar/Class 300

Bolted Bonnet • Extended Stem

CONFORMS TO ASTM A312/ANSI B31.1 ,B16.11, B1.20.1
API 598

Pressure Test

Body: 1080 PSI/76 Bar
Seat : 800 PSI/56 Bar

Temperature Range - 320 /-196 °C ~ +250 /+120 °C

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A351 CF8
2	Seal	PTFE
3	Plug Disc	ASTM B283 ALLOY C37700
4	Bonnet	ASTM A351 CF8
5	Packing	PTFE
6	Bolts	ASTM A276 304
7	Elongation Tube	ASTM A312 TP304L
8	Stem	ASTM A276 304
9	Packing	PTFE
10	Handwheel	Aluminum Alloy

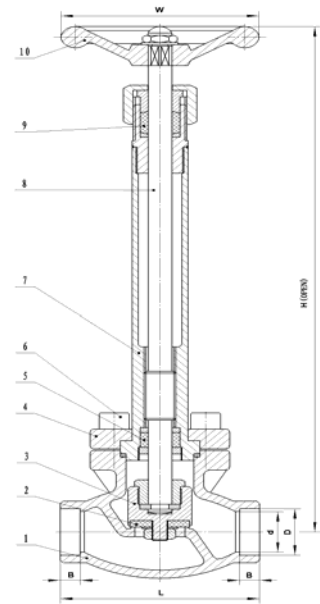
*Suitable for production, transportation and storage of liquefied gas, including Oxygen, Nitrogen, Argon, Natural gas, Hydrogen and Helium.

†Extended Stem Keeps proper distance between the stem packing and the cryogenic medium to avoid exterior heating effect to achieve optimal performance.



G322 - 4
Socket weld

G321 - 4
Threaded



DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		In		mm	
	³ / ₈	10	¹ / ₂	15	³ / ₄	20	1	25	¹ / ₄	32	¹ / ₂	40	2	50	² / ₁	65	3	80	4	100
L	2.76	70	3.15	80	3.54	90	3.94	100	4.72	120	5.12	130	6.30	160	7.48	190	8.66	220	10.24	260
H (open)	9.37	238	10.24	260	12.28	312	12.72	323	14.72	374	15.16	385	15.35	390	15.35	390	16.54	420	16.54	420
D	0.68	17.15	0.84	21.34	1.05	26.67	1.31	33.40	1.66	42.16	1.90	48.26	2.38	60.33	2.88	73.03	3.50	88.90	4.50	114.30
d	0.39	10	0.59	15	0.79	20	1.00	25	1.26	32	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100
B	0.24	6	0.31	8	0.39	10	0.39	10	0.51	13	0.51	13	0.63	16	0.63	16	0.79	20	0.79	20
W	2.95	75	2.95	75	3.94	100	3.94	100	4.92	125	4.92	125	6.30	160	7.87	200	9.45	240	11.00	280
Kvs (m³/h)	1.6		4.1		6.7		11.5		14.0		21.6		37.1		71.1		104.0		148.6	
Weight Lbs	3.53		3.97		7.06		8.60		12.13		12.79		20.29		30.21		44.10		60.42	
RF Kg	1.6		1.8		3.2		3.9		5.5		5.8		9.2		13.7		20.0		27.4	

‡European Standard connections and non-standard sizes are available upon request, Please consult factory for details.

✓ All the cryogenic valves made by TALOR have been thoroughly De-oxygenated and cleaned before delivery, and packed individually in the sealed polythene bag.

Cryogenic Angle Valves 740 PSI/51 Bar/Class 300

Bolted Bonnet • Extended Stem

CONFORMS TO ASTM A312/ANSI B31.1 ,B16.11, B1.20.1
API 598

Pressure Test

Body: 1080 PSI/76 Bar
Seat : 800 PSI/56 Bar

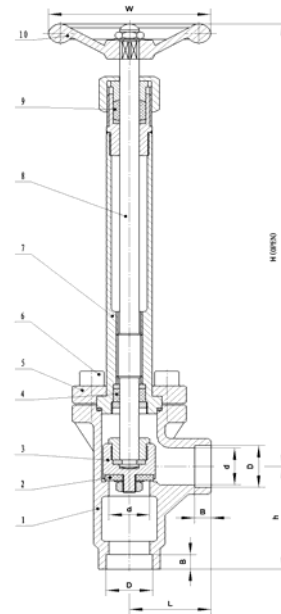
Temperature Range - 320 /-196 °C ~ +250 /+120 °C

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA351 CF8
2	Seal	PTFE
3	Plug Disc	ASTM B283 ALLOY C37700
4	Bonnet	ASTMA351 CF8
5	Packing	PTFE
6	Bolts	ASTM A276 304
7	Elongation Tube	ASTM A312 TP304L
8	Stem	ASTM A276 304
9	Packing	PTFE
10	Handwheel	Aluminum Alloy

*Suitable for production, transportation and storage of liquefied gas, including Oxygen, Nitrogen, Argon, Natural gas, Hydrogen and Helium.

†Extended Stem Keeps proper distance between the stem packing and the cryogenic medium to avoid exterior heating effect to achieve optimal performance.



L322 - 4

Socket weld

L321 - 4

Threaded

DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		In		mm	
	3/8	10	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50	2 1/2	65	3	80	4	100
L	1.38	35	1.57	40	1.77	45	1.97	50	2.17	55	2.36	60	3.15	80	3.54	90	3.94	100	3.94	100
H(open)	9.29	236	10.04	255	12.20	310	12.52	318	14.69	373	15.12	384	16.93	430	17.32	440	18.50	470	12.29	490
h	1.57	39.88	1.97	50	2.36	60	2.76	70	3.15	80	3.54	90	3.94	100	4.72	120	5.12	130	5.51	140
D	0.68	17.27	0.84	21.34	1.05	26.67	1.31	33.40	1.66	42.16	1.90	48.26	2.38	60.33	2.88	73.03	3.50	88.90	4.50	114.30
d	0.39	10	0.59	15	0.79	20	1.00	25	1.26	32	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100
B	0.24	6	0.31	8	0.39	10	0.39	10	0.51	13	0.51	13	0.63	16	0.63	16	0.79	20	0.79	20
W	2.95	75	2.95	75	3.94	100	3.94	100	4.92	125	4.92	125	6.30	160	7.87	200	9.45	240	11.00	280
Kvs(m³/n)	1.6		4.1		6.7		11.5		14.0		21.6		37.1		71.1		104.0		148.6	
Weight Lbs	3.75		4.41		7.72		9.04		12.57		13.45		21.39		31.53		46.31		63.72	
RF Kg	1.7		2.0		3.5		4.1		5.7		6.1		9.7		14.3		21.0		28.9	

‡European Standard connections and non-standard sizes are available upon request.

✓ All the cryogenic valves made by TALOAR have been thoroughly De-oxygenated and cleaned before delivery, and packed individually in the sealed polythene bag.

Cryogenic Check Valves

740 PSI/51 Bar/Class 300

Bolted Bonnet • Spring Return

CONFORMS TO ASTM A312/ANSI B31.1 ,B16.11, B1.20.1

API 598

Pressure Test

Body: 1080 PSI/76 Bar
Seat : 800 PSI/56 Bar

Temperature Range - 320 /-196 °C ~ +250 /+120 °C



C322 - 4

Socket weld

C321 - 4

Threaded

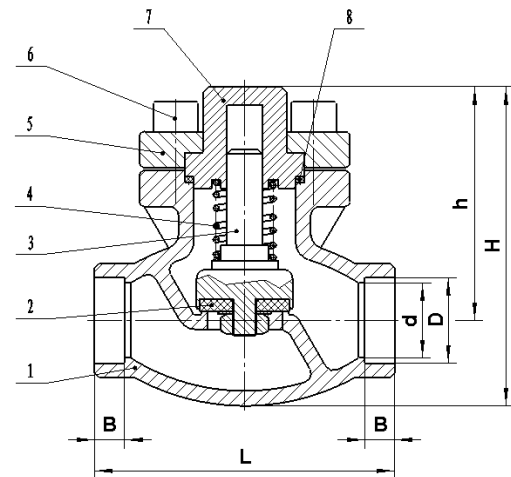
MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA351 CF8
2	Seal	PTFE
3	Disc	ASTM B283 ALLOY C37700
4	Spring	ASTMA276 304
5	Bonnet	ASTMA351 CF8
6	Bolts	ASTMA276 304
7	Cap	ASTMA351 CF8
8	Gasket	PTFE

*Suitable for production, transportation and storage of liquefied gas, including Oxygen, Nitrogen, Argon, Natural gas, Hydrogen and Helium.

†Upward flow direction with the medium below the disc.

Note: TALOR cryogenic check valves can install on vertical pipes.



DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		In		mm	
	³ / ₈	10	¹ / ₂	15	³ / ₄	20	1	25	1 ¹ / ₄	32	1 ¹ / ₂	40	2	50	2 ¹ / ₂	65	3	80	4	100
L	2.76	70	3.15	80	3.54	90	3.94	100	4.72	120	5.12	130	6.30	160	7.48	190	8.66	220	10.24	260
H(open)	3.15	80	3.35	85	3.74	95	4.17	106	4.76	121	5.35	136	6.61	168	7.72	196	8.94	227	10.55	268
h	2.32	59	2.52	64	2.80	71	3.07	78	3.46	88	3.82	97	4.72	120	5.39	137	6.30	160	7.44	189
D	0.68	17.27	0.84	21.34	1.05	26.67	1.31	33.40	1.66	42.16	1.90	48.26	2.38	60.33	2.88	73.03	3.50	88.90	4.50	114.30
d	0.39	10	0.59	15	0.79	20	1.00	25	1.26	32	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100
B	0.24	6	0.31	8	0.39	10	0.39	10	0.51	13	0.51	13	0.63	16	0.63	16	0.79	20	0.79	20
Kvs(m³/h)	1.6		4.1		6.7		11.5		14.0		21.6		37.1		71.1		104.0		148.6	
Weight Lbs	2.87		3.09		4.41		5.51		8.60		9.48		14.55		21.61		31.75		49.17	
RF Kg	1.3		1.4		2.0		2.5		3.9		4.3		6.6		9.8		14.4		22.3	

‡European Standard connections and non-standard sizes are available upon request, Please consult factory for details.

√ All the cryogenic valves made by TALOR have been thoroughly De-oxygenated and cleaned before delivery, and packed individually in the sealed polythene bag.

Stainless Steel Gate Valves 300 PSI/20.7 Bar/Class 150

Solid Wedge • Outside Screw and Yoke

CONFORMS TO ANSI B16.10 , B16.5, B16.34
API 598

Pressure Test

Body: 450 PSI/32 Bar
Seat : 320 PSI/22 Bar

Temperature Range - 20 /-29 ~ +356 /+ 180



A214 - S6

Flanged

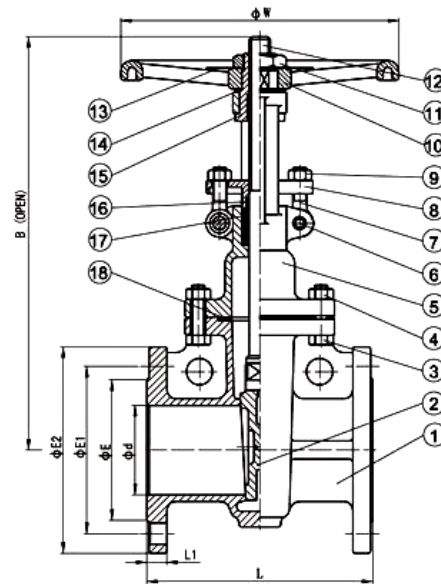
MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA351 CF8M
2	Wedge	ASTMA351 CF8M
3	Bolt	ASTM 194-B8
4	Nut	ASTM 194-B8
5	Bonnet	ASTMA351 CF8M
6	Pin	SS 304
7	Gland Bolt	SS 304
8	Gland	SCS13
9	Gland Nut	ASTM 194-B8
10	Handwheel	FCD400
11	Handwheel Nut	SS 304
12	Stem	ASTMA351 CF8M
13	Name Plate	SS 304
14	Washer	Bronze
15	Yoke Sleeve	Bronze
16	Packing	PTFE
17	Packing	PTFE
18	Gasket	PTFE

*A214-S6 CF8M Body,
A214-S4 CF8 Body.

*WOG (Water, Oil, Gas) applications.

*For general chemical and industrial services.



DIMENSIONS

Size	In		mm		In		mm		In		mm		In		mm		In		mm		In		mm		In		mm	
	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50	2 1/2	65	3	80	4	100	5	125	6	150	8	200	10	250	12	300
L	4.25	108	4.61	117	5.00	127	5.51	140	6.60	165	7.00	178	7.48	190	8.00	203	9.00	229	10.00	254	10.51	267	11.50	292	13.00	330	14.00	356
B	7.20	183	7.48	190	8.27	210	10.62	270	10.62	270	12.60	320	14.76	375	17.52	445	20.59	523	23.86	606	27.95	710	35.83	910	44.00	1117	52.13	1324
W	4.72	120	4.72	120	4.72	120	7.87	200	7.87	200	7.87	200	7.87	200	9.84	250	9.84	250	11.81	300	11.81	300	13.78	350	15.75	400	15.75	400
E	1.38	35	1.69	43	2.00	51	2.52	64	2.87	73	3.62	92	4.13	105	5.00	127	6.18	157	7.32	186	8.50	216	10.62	270	12.76	324	15.00	381
E1	2.38	60.5	2.76	70	3.13	79.5	3.50	89	3.88	98.5	4.74	120.5	5.49	139.5	6.00	152.5	7.50	190.5	8.50	216	9.51	241.5	11.75	298.5	14.25	362	17.00	432
E2	3.50	89	3.86	98	4.25	108	4.61	117	5.00	127	6.00	152	7.00	178	7.48	190	9.00	229	10.00	254	11.00	279	13.50	343	16.00	406	19.00	483
d	0.59	15	0.79	20	1.00	25	1.26	32	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100	4.92	125	5.91	150	7.87	200	9.84	250	11.81	300
L	0.48	12.1	0.48	12.1	0.48	12.1	0.50	12.7	0.56	14.3	0.63	15.9	0.69	17.5	0.75	19.1	0.94	23.9	0.94	23.9	1.00	25.4	1.13	28.6	1.19	30.2	1.25	31.8

Stainless Steel Gate Valves 740 PSI/51 Bar/Class 300

Solid Wedge • Outside Screw and Yoke

CONFORMS TO ANSI B16.10 , B16.5, B16.34
API 598

Pressure Test

Body: 1200 PSI/76 Bar
Seat : 800 PSI/56 Bar

Temperature Range - 20 /-29 ~ +356 /+180



A314 - S6
Flanged

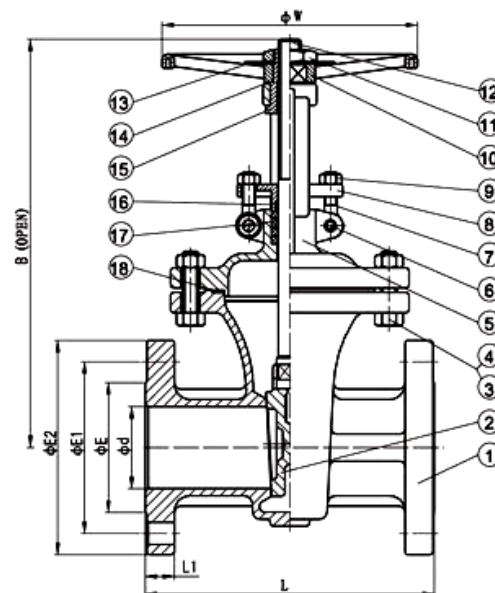
MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA351 CF8M
2	Wedge	ASTMA351 CF8M
3	Bolt	ASTM 194-B8
4	Nut	ASTM 194-B8
5	Bonnet	ASTM A351 CF8M
6	Pin	SS 304
7	Gland Bolt	SS 304
8	Gland	SCS13
9	Gland Nut	ASTM 194-B8
10	Handwheel	FCD400
11	Handwheel Nut	SS 304
12	Stem	ASTM A351 CF8M
13	Name Plate	SS 304
14	Washer	Bronze
15	Yoke Sleeve	Bronze
16	Packing	PTFE
17	Packing	PTFE
18	Gasket	PTFE

*A314-S6 CF8M Body,
A314-S4 CF8 Body.

* WOG (Water, Oil, Gas) applications.

* For general chemical and industrial services.



DIMENSIONS

Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12	15	20	25	30	40	50	60	80	100	125	150	200	250	300
L	5.51	140	6.00	152	6.60	165	7.48	190	8.50	216	9.49	241	11.14	283	12.00	305	15.00	381	15.87	403	16.50	419	18.00	457	19.76	502	
B	7.56	197	8.30	211	9.13	232	11.14	283	13.90	353	15.91	404	18.50	470	22.05	560	24.65	626	29.65	753	38.11	968	44.00	1117	54.33	1380	
W	4.72	120	4.72	120	4.72	120	9.84	250	9.84	250	9.84	250	9.84	250	11.81	300	11.81	300	13.78	350	15.75	400	15.75	400	19.69	500	
E	1.38	35	1.69	43	2.00	51	2.87	73	3.62	92	4.13	105	5.00	127	6.18	157	7.32	186	8.50	216	10.62	270	12.76	324	15.00	381	
E1	2.62	66.5	3.25	82.5	3.50	89	4.51	114.5	5.00	127	5.87	149	6.61	168	7.87	200	9.25	235	10.62	270	13.00	330	15.26	387.5	17.76	451	
E2	3.74	95	4.61	117	4.88	124	6.14	156	6.50	165	7.48	190	7.87	210	10.00	254	11.00	279	15.00	318	12.52	381	17.48	444	20.51	521	
d	0.59	15	0.79	20	1.00	25	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100	4.92	125	5.91	150	7.87	200	9.84	250	11.81	300	
L1	0.56	14.3	0.63	15.9	0.69	17.5	0.81	20.7	0.88	22.3	1.00	25.4	1.13	28.6	1.25	31.8	1.38	35	1.44	36.6	1.63	41.3	1.64	41.7	2.00	50.8	

Stainless Steel Globe Valves 300 PSI/20.7 Bar/Class 150

CONFORMS TO ANSI B16.10 , B16.5, B16.34

API 598

Pressure Test

Body: 450 PSI/32 Bar
Seat : 320 PSI/22 Bar

Temperature Range - 20 /-29 ~ +356 /+180



G214 - S6
Flanged

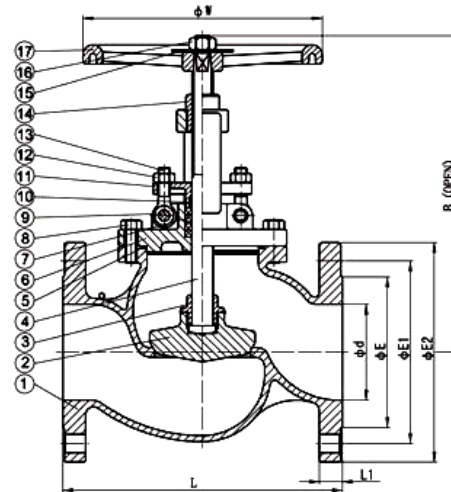
MATERIAL LIST

No.	Part	Materials
1	Body	ASTM 351 CF8M
2	Disc	ASTM 351 CF8M
3	Disc Plate	ASTM 351 CF8M
4	Stem	SS 316
5	Gasket	PTFE
6	Bonnet	ASTM 351 CF8M
7	Packing	PTFE
8	Bonnet Bolt	ASTM 193-B8
9	Pin	SS 304
10	Packing	PTFE
11	Gland Flange	ASTM A276 304
12	Gland Nut	ASTM 193-B8
13	Gland Bolt	ASTM 193-B8
14	Yoke Sleeve	Bronze
15	Name Plate	SS 304
16	Handwheel Nut	ASTM 193-B8
17	Handwheel	FCD400

*G214 - S6 CF8M Body,
G214-S4 CF8 Body.

*WOG (Water, Oil, Gas) applications.

*For general chemical and industrial services.



DIMENSIONS

Size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	15	20	25	30	40	50	60	80	100	125	150	200	250	300
L	4.25	108	4.61	117	5.00	127	5.51	140	6.60	165	8.00	203	8.50	216	9.49	241	11.50	292	14.00	356	16.00	406	19.49	495	26.06	622	27.48	698
B	6.61	168	6.61	168	6.81	173	7.48	190	7.87	200	9.06	230	9.57	243	11.26	286	12.80	325	14.96	380	17.52	445	21.46	545	25.59	650	29.00	736
W	5.51	140	5.51	140	5.51	140	6.30	160	6.30	160	7.87	200	7.87	200	9.84	250	9.84	250	11.81	300	13.78	350	13.78	350	15.75	400	15.75	400
E	1.38	35	1.69	43	2.00	51	2.52	64	2.87	73	3.62	92	4.13	105	5.00	127	6.18	157	7.32	186	8.50	216	10.62	270	12.76	324	15.00	381
E1	2.38	60.5	2.76	70	3.13	79.5	3.50	89	3.88	98.5	4.74	120.5	5.49	139.5	6.00	152.5	7.50	190.5	8.50	216	9.51	241.5	11.75	298.5	14.25	362	17.00	432
E2	2.38	60.5	2.76	70	3.13	79.5	3.50	89	3.88	98.5	4.74	120.5	5.49	139.5	6.00	152.5	7.50	190.5	8.50	216	9.51	241.5	11.75	298.5	14.25	362	17.00	432
d	3.50	89	3.86	98	4.25	108	4.61	117	5.00	127	6.00	152	7.00	178	7.48	190	9.00	229	10.00	254	11.00	279	13.50	343	16.00	406	19.00	483
L	0.59	15	0.79	20	1.00	25	1.26	32	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100	4.92	125	5.91	150	7.87	200	9.84	250	11.81	300

Stainless Steel Globe Valves 740 PSI/51 Bar/Class 300

CONFORMS TO ANSI B16.10 , B16.5, B16.34

API 598

Pressure Test

Body: 1200 PSI/76 Bar
Seat : 800 PSI/56 Bar

Temperature Range - 20 /-29 ~ +356 /+180



G314 - S6
Flanged

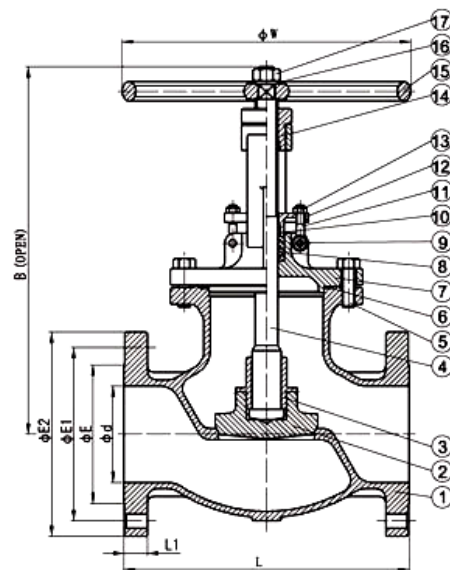
MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A351 CF8M
2	Disc	ASTM A351 CF8M
3	Seat Seal	ASTM A351 CF8M
4	Stem	SS 304 / SS 316
5	Bonnet Bolt	ASTM 194-B8
6	Packing	PTFE
7	Bonnet	ASTM A351 CF8M
8	Packing	PTFE
9	Pin	SS 304
10	Packing	PTFE
11	Gland Bolt	SS 304
12	Gland Flanged	SCS13
13	Gland Nut	ASTM A194-2H
14	Yoke Sleeve	Bronze
15	Handwheel	FCD400
16	Handwheel Washer	SS 304
17	Handwheel Nut	ASTM A194-2H

*G314-S6 CF8M Body,
G314-S4 CF8 Body.

*WOG (Water, Oil, Gas) applications.

*For general chemical and industrial services.



DIMENSIONS

Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	15	20	25	30	40	50	60	80	100	150	200	250
L	6.00	152	7.00	178	8.00	203	9.00	229	10.51	267	11.50	292	12.52	318	14.00	356	15.75	400	17.52	445	22.00	559	24.49	622
B	7.32	186	7.32	186	7.36	187	9.29	236	11.38	289	11.69	297	13.50	343	15.67	398	19.17	487	21.97	558	26.18	665	31.50	800
W	5.51	140	5.51	140	5.51	140	5.51	140	9.84	250	9.84	250	11.81	300	11.81	300	17.72	450	17.72	450	19.69	500	19.69	500
E	1.38	35	1.69	43	2.00	51	2.87	73	3.62	92	4.13	105	5.00	127	6.18	157	7.32	186	8.50	216	10.62	270	12.76	324
E1	2.62	66.5	3.25	82.5	3.50	89	4.51	114.5	5.00	127	5.87	149	6.61	168	7.87	200	9.25	235	10.62	270	13.00	330	15.26	387.5
E2	3.74	95	4.61	117	4.88	124	6.14	156	6.60	165	7.48	190	8.27	210	10.00	254	11.00	279	12.52	318	15.00	381	17.48	444
d	0.59	15	0.79	20	1.00	25	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100	4.92	125	5.91	150	7.87	200	9.84	250
L1	0.56	14.3	0.63	15.9	0.69	17.5	0.81	20.7	0.88	22.3	1.00	25.4	1.13	28.6	1.25	31.8	1.38	35	1.44	36.6	1.63	41.3	1.88	47.7

Stainless Steel Check Valves 300 PSI/20.7 Bar/Class 150

CONFORMS TO ANSI B16.10 , B16.5, B16.34
API 598

Pressure Test

Body: 450 PSI/32 Bar
Seat : 320 PSI/22 Bar

Temperature Range - 20 /-29 ~ +356 /+180



C214 - S6
Flanged

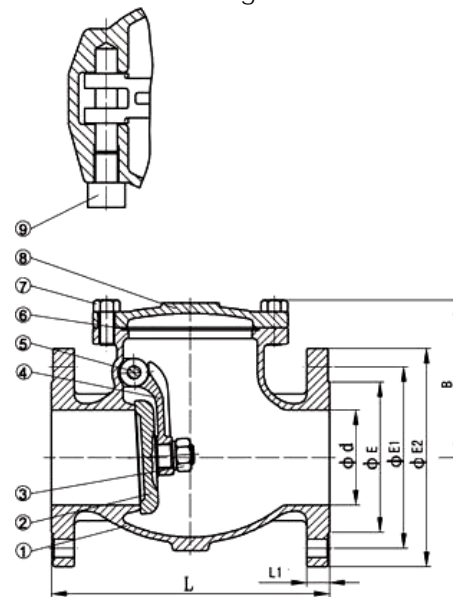
MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA351 CF8M
2	Disc	ASTMA351 CF8M
3	Disc Nut	SS 304
4	Hanger	ASTMA351 CF8M
5	Hanger Pin	SS 316
6	Gasket	PTFE
7	Bolt	ASTMA194-B8
8	Bonnet	ASTMA351 CF8M
9	Bolt	SS 304

*C214-S6 CF8M Body,
C214-S4 CF8 Body.

*WOG (Water, Oil, Gas) applications.

*For general chemical and industrial services.



DIMENSIONS

Size	In		mm		In		mm		In		mm		In		mm		In		mm		In		mm		In		mm	
	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12	15	20	25	30	40	50	60	80	100	125	150	200	250	300	
L	4.41	112	4.92	125	5.31	135	6.60	165	8.00	203	8.50	216	9.49	241	11.50	292	13.00	330	14.00	356	19.49	495	26.06	622	27.48	698		
B	2.56	65	2.76	70	2.95	75	4.21	107	4.72	120	5.31	135	5.79	147	6.65	169	7.48	190	8.39	213	9.96	253	11.00	279	12.28	312		
E	1.38	35	1.69	43	2.00	51	2.87	73	3.62	92	4.13	105	5.00	127	6.18	157	7.32	186	8.50	216	10.62	270	12.76	324	15.00	381		
E1	2.38	60.5	2.76	70	3.13	79.5	3.88	98.5	4.74	120.5	5.49	139.5	6.00	152.5	7.50	190.5	8.50	216	9.51	241.5	11.75	298.5	14.25	362	17.00	432		
E2	3.50	89	3.86	98	4.25	108	5.00	127	6.00	152	7.00	178	7.48	190	9.00	229	10.00	254	11.00	279	13.50	343	16.00	406	19.00	483		
d	0.59	15	0.79	20	1.00	25	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100	4.92	125	5.91	150	7.87	200	9.84	250	11.81	300		
L1	0.48	12.1	0.48	12.1	0.48	12.1	0.56	14.3	0.63	15.9	0.69	17.5	0.75	19.1	0.94	23.9	0.94	23.9	1.00	25.4	1.13	28.6	1.19	30.2	1.25	31.8		

Stainless Steel Check Valves 740 PSI/51 Bar/Class 300

CONFORMS TO ANSI B16.10 , B16.5, B16.34
API 598

Pressure Test

Body: 1200 PSI/76 Bar
Seat : 800 PSI/56 Bar

Temperature Range - 20 /-29 ~ +356 /+180



C314 - S6
Flanged

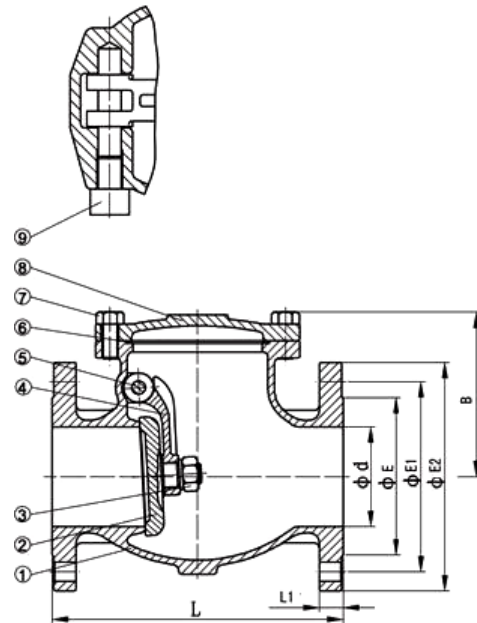
MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A351 CF8M
2	Disc	ASTM A351 CF8M
3	Disc Nut	SS 304
4	Hanger	ASTM A351 CF8M
5	Hanger Pin	SS 316
6	Gasket	PTFE
7	Bolt	ASTMA194-B8
8	Bonnet	ASTM A351 CF8M
9	Bolt	SS 304

*C314-S6 CF8M Body,
C314-S4 CF8 Body.

*WOG (Water, Oil, Gas) applications.

*For general chemical and industrial services.



DIMENSIONS

Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12	15	20	25	30	40	50	60	80	100	125	150	200	250	
L	6.00	152	7.00	178	8.50	216	9.49	241	10.51	267	11.50	292	12.52	318	14.00	356	15.75	400	17.52	445	22.00	559	24.49	622			
B	3.15	80	3.54	90	3.94	100	4.57	116	5.08	129	5.63	143	6.46	164	6.97	177	8.54	217	9.09	231	11.46	291	12.56	319			
E	1.38	35	1.69	43	2.00	51	2.87	73	3.62	92	4.13	105	5.00	127	6.18	157	7.32	186	8.50	216	10.62	270	12.76	324			
E1	2.62	66.5	3.25	82.5	3.50	89	4.51	114.5	5.00	127	5.87	149	6.61	168	7.87	200	9.25	235	10.62	270	13.00	330	15.26	387.5			
E2	3.74	95	4.61	117	4.88	124	6.14	156	6.60	165	7.48	190	8.27	210	10.00	254	11.00	279	12.52	318	15.00	381	17.48	444			
d	0.59	15	0.79	20	1.00	25	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100	4.92	125	5.91	150	7.87	200	9.84	250			
L1	0.56	14.3	0.63	15.9	0.69	17.5	0.81	20.7	0.88	22.3	1.00	25.4	1.13	28.6	1.25	31.8	1.38	35	1.44	36.6	1.63	41.3	1.88	47.7			

Stainless Steel Y-Strainer 300 PSI/20.7 Bar/Class 150

CONFORMS TO ANSI B16.10 , B16.5, B16.34
API 598

Pressure Test 450 PSI/32 Bar

Temperature Range - 20 /-29 ~ +356 /+180



Y214 - S6
Flanged

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA351 CF8M
2	Bonnet	ASTMA351 CF8M
3	Gasket	PTFE
4	Screen	SS 304
5	Bolt	ASTMA194-B8
6	Plug	SS 304

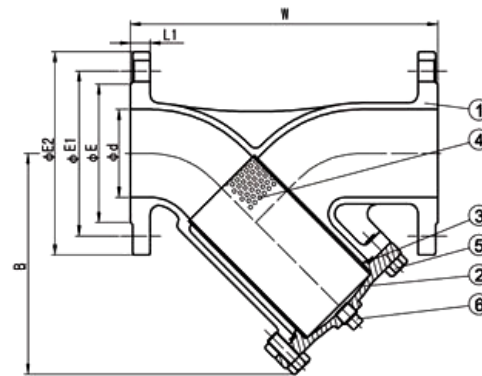
*Y214-S6 CF8M Body,
Y214 -S4 CF8 Body.

*WOG (Water, Oil, Gas) applications.

*For general chemical and industrial services.

SCREEN SPECIFICATION

Size	Dia
1/2" - 1 1/4"	1.5mm
1 1/2" - 10"	2 mm



DIMENSIONS

Size	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12	15	20	25	30	40	50	60	75	90	100	125	150	200	250		
W	4.72	120	5.51	140	5.91	150	7.48	190	8.27	210	9.84	250	11.00	280	13.39	340	14.96	380	16.54	420	19.69	500	28.74	730					
B	2.95	75	2.95	75	3.94	100	4.72	120	5.51	140	6.89	175	7.72	196	9.61	244	10.91	277	12.60	320	15.35	390	20.00	508					
E	1.38	35	1.69	43	2.00	51	2.87	73	3.62	92	4.13	105	5.00	127	6.18	157	7.32	186	8.50	216	10.62	270	12.76	324					
E1	2.38	60.5	2.76	70	3.13	79.5	3.88	98.5	4.74	120.5	5.49	139.5	6.00	152.5	7.50	190.5	8.50	216	9.51	241.5	11.75	298.5	14.25	362					
E2	3.50	89	3.86	98	4.25	108	5.00	127	6.00	152	7.00	178	7.48	190	9.00	229	10.00	254	11.00	279	13.50	343	16.00	406					
D	0.59	15	0.79	20	1.00	25	1.57	40	1.97	50	2.56	65	3.15	80	3.94	100	4.92	125	5.91	150	7.87	200	9.84	250					
L	0.48	12.1	0.48	12.1	0.48	12.1	0.56	14.3	0.63	15.9	0.69	17.5	0.75	19.1	0.94	23.9	0.94	23.9	1.00	25.4	1.13	28.6	1.19	30.2					

Cast Steel Gate Valves

300 PSI/20.7 Bar/Class 150

Flexible Wedge • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598

Temperature Range - 20 /-29 ~ +800 /+425



A234

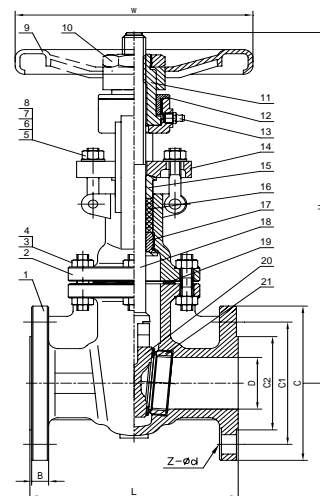
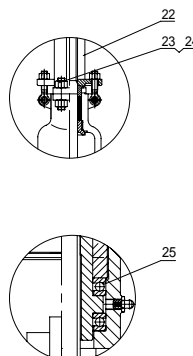
Flanged

A233

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Bonnet	ASTM A216 WCB
3	Bonnet Bolt	ASTM A193 B7
4	Bonnet Nut	ASTM A194 2H
5	Gland Eye Bolt	ASTM A193 B7
6	Eye Bolt Nut	ASTM A194 2H
7	Gasket	Carbon Steel
8	Eye Bolt Pin	Carbon Steel
9	Handwheel	Ductile Iron
10	Handwheel Nut	Carbon Steel
11	Stem Nut	ASTM A439 D2
12	Retaining Nut	Carbon Steel
13	Grease Nipple	Carbon Steel
14	Gland Flange	ASTM A216 WCB
15	Gland	ASTM A182 F6
16	Gland Packing	Braided Graphite
17	Back Seat	ASTM A182 F6
18	Stem	ASTM A182 F6
19	Gasket	304+ Graphite
20	Wedge	ASTM A216 WCB+13Cr
21	Seat Ring	ASTM A105 WCB+13Cr
22	Yoke	ASTM A216 WCB
23	Yoke Nut	ASTM A194 2H
24	Yoke Bolt	ASTM A193 B7
25	Bearing	Steel



*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	2	50	2½	65	3	80	4	100	6	150	8	200	10	250	12	300	14	350	16	400	18	450	20	500	24	600	30	750	36	900	
L	RF	7.00	178	7.52	191	8.00	203	9.00	229	10.51	267	11.50	292	13.00	330	14.00	356	15.00	381	16.00	406	17.00	432	18.00	457	20.00	508	24.00	610	28.00	711
	BW	8.50	216	9.49	241	11.14	283	12.00	305	15.87	403	16.50	419	18.00	457	19.76	502	22.52	572	24.00	610	26.00	660	28.00	711	32.00	813	36.00	914	40.00	1016
H		15.31	389	17.28	439	19.69	500	23.43	595	30.59	777	38.39	975	41.73	1160	54.72	1390	61.22	1555	71.30	1811	82.80	2103	90.55	2300	102.72	2609	141.97	3606	154.99	3924
W		7.87	200	7.87	200	9.84	250	9.84	250	13.78	350	13.78	350	15.75	400	17.72	450	22.05	560	23.62	600	25.20	640	26.77	680	29.92	760	29.92	760	29.92	760
D		2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	8.00	203	10.00	254	12.00	305	13.27	337	15.24	387	17.24	438	19.25	489	23.27	591	-	-	-	
C		6.00	152	7.00	178	7.48	190	9.00	229	11.00	279	13.50	343	16.00	406	19.00	483	21.00	533	23.50	597	25.00	635	27.52	699	32.00	813	-	-	-	
C1		4.76	121	5.51	140	6.00	153	7.52	191	9.53	242	11.77	299	14.25	362	17.00	432	18.74	476	21.26	540	22.76	578	25.00	635	29.53	750	-	-	-	
C2		3.62	92	4.13	105	5.00	127	6.18	157	8.50	216	10.62	270	12.76	324	15.00	381	16.26	413	18.50	470	21.00	533	23.00	584	27.24	692	-	-	-	
B		0.75	19	0.87	22	0.94	24	0.94	24	1.00	26	1.14	29	1.22	31	1.26	32	1.38	35	1.46	37	1.57	40	1.69	43	1.89	48	-	-	-	
Z-φd		4.19	4.19	4.19	8.19	8.22	8.22	12.25	12.25	12.29	16.29	16.32	20.32	20.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Weight Lbs		37.49	50.72	63.95	103.64	176.40	284.45	423.36	632.84	904.05	1259.06	1587.60	2579.85	3232.53	4257.86	7938.00															
RF Kg		17	23	29	47	80	129	192	287	410	571	720	1170	1466	1931	3600															

Cast Steel Gate Valves 740 PSI/51 Bar/Class 300

Flexible Wedge • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598

Temperature Range - 20 /-29 ~ +800 /+425



A334

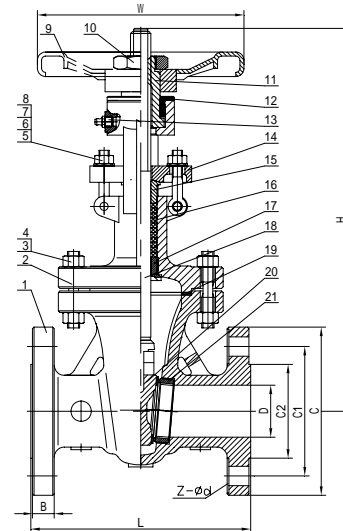
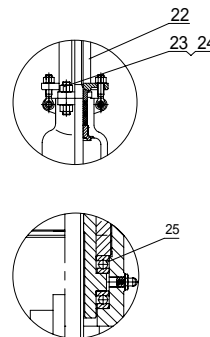
Flanged

A333

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Bonnet	ASTM A216 WCB
3	Bonnet Bolt	ASTM A193 B7
4	Bonnet Nut	ASTM A194 2H
5	Gland Eye Bolt	ASTM A193 B7
6	Eye Bolt Nut	ASTM A194 2H
7	Gasket	Carbon Steel
8	Eye Bolt Pin	Carbon Steel
9	Handwheel	Ductile Iron
10	Handwheel Nut	Carbon Steel
11	Stem Nut	ASTM A439 D2
12	Retaining Nut	Carbon Steel
13	Grease Nipple	Carbon Steel
14	Gland Flange	ASTM A216 WCB
15	Gland	ASTM A182 F6
16	Gland Packing	Braided Graphite
17	Back Seat	ASTM A182 F6
18	Stem	ASTM A182 F6
19	Gasket	304+ Graphite
20	Wedge	ASTM A216 WCB+13Cr
21	Seat Ring	ASTM A105 WCB+13Cr
22	Yoke	ASTM A216 WCB
23	Yoke Nut	ASTM A194 2H
24	Yoke Bolt	ASTM A193 B7
25	Bearing	Steel



*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	2	3	4	6	8	10	12	16	20	24	30	36	48	60	72	90	108	144	180	240	300	360	480	600	720	900					
L	RF	8.50	216	9.49	241	11.14	283	12.00	305	15.87	403	16.50	419	18.00	457	19.76	502	30.00	762	33.00	838	36.00	914	39.00	991	45.00	1143	55.00	1397	68.00	1727
	BW	8.50	216	9.49	241	11.14	283	12.00	305	15.87	403	16.50	419	18.00	457	19.76	502	30.00	762	33.00	838	36.00	914	39.00	991	45.00	1143	55.00	1397	68.00	1727
H		16.93	430	19.88	505	20.87	530	24.80	630	31.50	800	39.69	1008	48.82	1240	57.87	1470	64.76	1645	72.48	1841	77.13	1959	86.38	2194	102.28	2598	130.70	3320	153.94	3910
W		7.87	200	9.84	250	9.84	250	9.84	250	13.78	350	15.75	400	17.72	450	19.69	500	23.62	600	23.62	600	26.77	680	29.92	760	29.92	760	29.92	760	29.92	760
D		2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	8.00	203	10.00	254	12.00	305	13.27	337	15.24	387	17.00	432	19.00	483	23.00	584	-	-	-	-
C		6.60	165	7.48	190	8.27	210	10.00	254	12.52	318	15.00	381	17.52	445	20.51	521	23.00	584	25.51	648	28.00	711	30.51	775	36.00	914	-	-	-	-
C1		5.00	127	5.87	149	6.65	169	7.87	200	10.62	270	13.00	330	15.28	388	17.76	451	20.28	515	22.52	572	24.76	629	27.00	686	32.00	813	-	-	-	-
C2		3.62	92	4.13	105	5.00	127	6.18	157	8.50	216	10.62	270	12.76	324	15.00	381	16.26	413	18.50	470	21.00	533	23.00	584	27.24	692	-	-	-	-
B		0.91	23	1.00	26	1.14	29	1.26	32	1.46	37	1.65	42	1.89	48	2.00	51	2.13	54	2.28	58	2.40	61	2.52	64	2.76	70	-	-	-	-
Z-Ød		8-19	8-22	8-22	8-22	12-22	12-25	16-29	16-32	20-32	20-35	24-35	24-35	24-35	24-41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weight Lbs		66.15	99.23	125.69	194.04	324.14	482.90	811.44	1151.00	1530.27	2381.40	2723.18	3649.28	5115.60	10870.65	15181.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RF Kg		30	45	57	88	147	219	368	522	694	1080	1235	1655	2320	4930	6885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Cast Steel Gate Valves

1480 PSI/100 Bar/Class 600

Flexible Wedge • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598

Temperature Range - 20 /-29 ~ +800 /+425



A434

Flanged

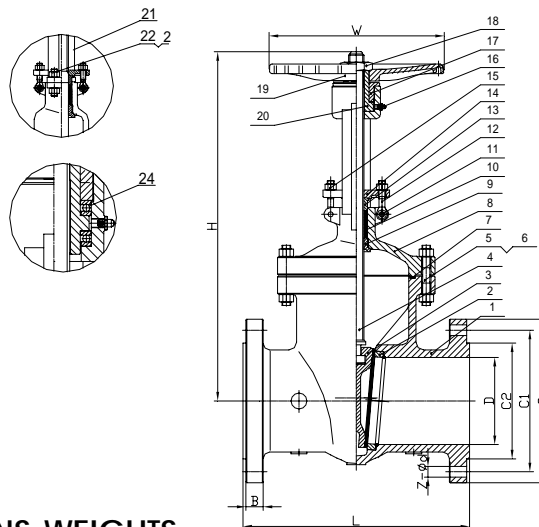
A433

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Seat Ring	ASTM A105+13Cr
3	Wedge	ASTM A216 WCB+13Cr
4	Stem	ASTM A182 F6
5	Bonnet Bolt	ASTM A193 B7
6	Bonnet Nut	ASTM A194 2H
7	Gasket	304+ Graphite
8	Bonnet	ASTM A216 WCB
9	Back Seat	ASTM A182 F6
10	Packing	Braided Graphite
11	Eye Bolt Pin	Carbon Steel
12	Gland Eye Bolt	ASTM A307B
13	Gland	ASTM A182 F6
14	Gland Flange	ASTM A216 WCB
15	Eye Bolt Nut	ASTM A194 2H
16	Grease Nipple	Carbon Steel
17	Retaining Nut	Carbon Steel
18	Handwheel Nut	Carbon Steel
19	Handwheel	Ductile Iron
20	Stem Nut	ASTM A439 D2
21	Yoke	ASTM A216 WCB
22	Yoke Bolt	ASTM A193 B7
23	Yoke Nut	ASTM A194 2H
24	Bearing	Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		In		mm		In		mm				
	2	50	2½	65	3	80	4	100	6	150	8	200	10	250	12	300	14	350	16	400	18	450	20	500	24	600	
L	RF	11.50	292	13.00	330	29.76	756	17.00	432	22.00	559	26.00	660	31.00	787	33.00	838	35.00	889	39.00	991	43.00	1092	47.00	1194	55.00	1397
	BW	11.50	292	13.00	330	29.76	756	17.00	432	22.00	559	26.00	660	31.00	787	33.00	838	35.00	889	39.00	991	43.00	1092	47.00	1194	55.00	1397
H		18.03	458	20.00	508	21.65	550	27.17	690	35.83	910	41.93	1065	49.49	1257	57.80	1468	63.90	1623	71.50	1816	89.00	2260	106.50	2705	110.63	2810
W		9.84	250	9.84	250	9.84	250	13.78	350	17.72	450	19.69	500	25.20	640	26.77	680	29.92	760	29.92	760	29.92	760	29.92	760	29.92	760
D		2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	7.87	200	9.76	248	11.73	298	12.87	327	14.76	375	16.50	419	18.27	464	22.00	559
C		6.60	165	7.52	191	8.27	210	10.75	273	14.00	356	16.10	409	20.00	508	22.00	559	23.74	603	27.00	686	29.25	743	32.00	813	37.00	940
C1		5.00	127	5.59	142	6.61	168	8.50	216	11.50	292	13.74	349	17.00	432	19.25	489	20.75	527	23.74	603	25.75	654	28.50	724	33.00	838
C2		3.62	92	4.13	105	5.00	127	6.18	157	8.50	216	10.62	270	2.76	324	15.00	381	16.26	413	18.50	470	21.00	533	23.00	584	27.24	692
B		1.00	25	1.10	28	1.26	32	1.50	38	1.89	48	2.20	56	2.52	64	2.64	67	2.76	70	3.03	77	3.27	83	3.50	89	4.00	102
Z-Ød		8-19		8-22		8-22		8-25		12-29		12-32		16-35		20-35		20-41		20-45		24-45		24-51		28-55	
Weight Lbs		99.23		121.28		167.58		280.04		610.79		1069.43		1662.57		2063.88		2901.78		3686.76		4564.35		5303.03		10032.75	
RF Kg		45		55		76		127		277		485		754		936		1316		1672		2070		2405		45550	

Cast Steel Gate Valves 2130 PSI/150 Bar/Class 900

Flexible Wedge • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598

Temperature Range - 20 /-29 ~ +800 /+425



A634

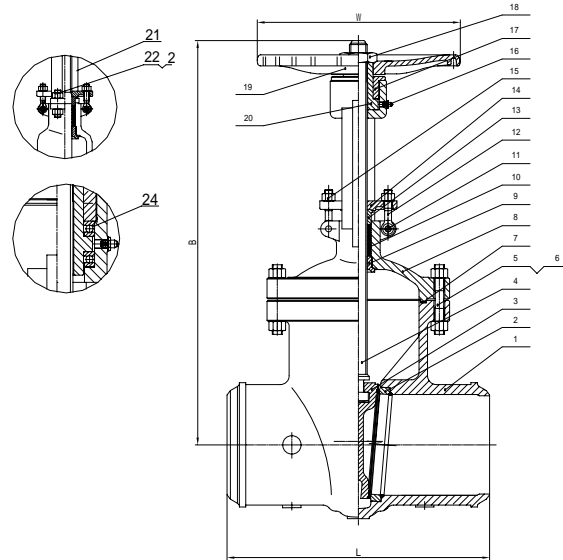
Flanged

A633

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA216 WCB
2	Seat Ring	ASTMA105+13Cr
3	Wedge	ASTMA216 WCB+13Cr
4	Stem	ASTMA182 F6a
5	Bonnet Bolt	ASTMA193 B7
6	Bonnet Nut	ASTMA194 2H
7	Gasket	304+ Graphite
8	Bonnet	ASTMA216 WCB
9	Back Seat	ASTMA182 F6a
10	Packing	Braided Graphite
11	Eye Bolt Pin	Carbon Steel
12	Gland Eye Bolt	ASTMA193 B7
13	Gland	ASTMA182 F6
14	Gland Flange	ASTMA216 WCB
15	Eye Bolt Nut	ASTMA194 2H
16	Grease Nipple	Carbon Steel
17	Retaining Nut	Carbon Steel
18	Handwheel Nut	Carbon Steel
19	Handwheel	Ductile Iron
20	Stem Nut	ASTMA439 D2
21	Yoke	ASTMA216 WCB
22	Yoke Bolt	ASTMA193 B7
23	Yoke Nut	ASTMA194 2H
24	Bearing	Steel



*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		In		mm		In		mm		
	2	50	2½	65	3	80	4	100	6	150	8	200	10	250	12	300	14	350	16	400	18	450	20	500	
L	RF	14.49	368	16.50	419	15.00	381	18.00	457	24.00	610	29.00	737	33.00	838	38.00	965	40.51	1029	44.49	1130	48.00	1219	52.00	1321
	BW	14.49	368	16.50	419	15.00	381	18.00	457	24.00	610	29.00	737	33.00	838	38.00	965	40.51	1029	44.49	1130	48.00	1219	52.00	1321
B		24.41	620	27.76	705	29.00	737	32.48	825	41.93	1065	48.00	1219	52.95	1345	72.44	1840	79.72	2025	85.43	2170	87.87	2232	95.87	2435
W		11.81	300	13.78	350	13.78	350	15.75	400	22.05	560	22.05	560	22.05	560	22.05	560	24.00	610	24.00	610	29.92	760	29.92	760
Weight	Lbs	209.48		238.14		375.63		427.77		833.49		1400.18		1984.50		3417.75		4784.75		9769.35		8665.65		11289.60	
	Kg	95		108		125		194		378		635		900		1550		2170		3070		3930		5120	

Cast Steel Gate Valves 3705 PSI/250 Bar/Class 1500

Flexible Wedge • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598

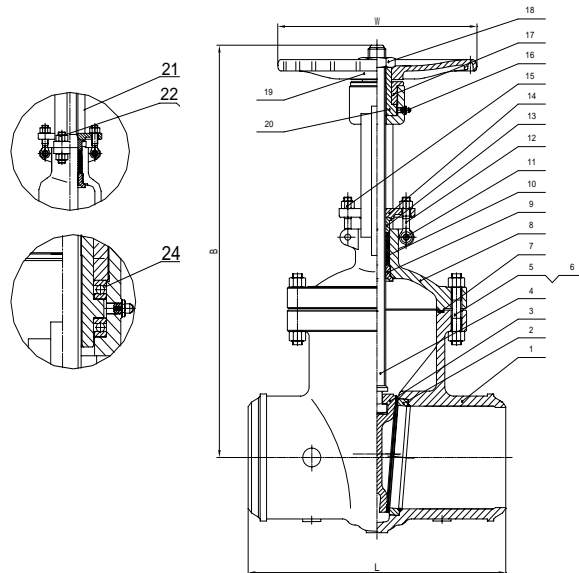
Temperature Range - 20 /-29 ~ +800 /+425



A734
Flanged
A733
Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Seat Ring	ASTM A105+13Cr
3	Wedge	ASTM A216 WCB+13Cr
4	Stem	ASTM A182 F6
5	Bonnet Bolt	ASTM A193 B7
6	Bonnet Nut	ASTM A194 2H
7	Gasket	304+ Graphite
8	Bonnet	ASTM A216 WCB
9	Back Seat	ASTM A182 F6
10	Packing	Braided Graphite
11	Eye Bolt Pin	Carbon Steel
12	Gland Eye Bolt	ASTM A193 B7
13	Gland	ASTM A182 F6
14	Gland Flange	ASTM A216 WCB
15	Eye Bolt Nut	ASTM A194 2H
16	Grease Nipple	Carbon Steel
17	Retaining Nut	Carbon Steel
18	Handwheel Nut	Carbon Steel
19	Handwheel	Ductile Iron
20	Stem Nut	ASTM A439 D2
21	Yoke	ASTM A216 WCB
22	Yoke Bolt	ASTM A193 B7
23	Yoke Nut	ASTM A194 2H
24	Bearing	Steel



*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.

†Option: Pressure-sealed bonnet

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		In		mm						
	2	50	2½	65	3	80	4	100	6	150	8	200	10	250	12	300	14	350	16	400	18	450	20	500	
L	RF	14.49	368	16.50	419	18.50	470	21.50	546	27.76	705	32.76	832	39.00	991	44.49	1130	49.49	1257	54.49	1384	60.47	1536	65.51	1664
	BW	14.49	368	16.50	419	18.50	470	21.50	546	27.76	705	32.76	832	39.00	991	44.49	1130	49.49	1257	54.49	1384	60.47	1536	65.51	1664
B		27.36	695	27.76	705	30.31	770	34.33	872	43.00	1092	55.12	1400	63.00	1600	71.44	1815	89.25	2267	95.28	2420	108.74	2762	122.13	3102
W		13.78	350	15.75	400	15.75	400	19.69	500	23.62	600	23.62	600	27.95	710	27.95	710	29.92	760	29.92	760	29.92	760	29.92	760
Weight	Lbs	209.48	238.14	375.63	427.77	833.49	1400.18	1984.50	3417.75	4784.75	6769.35	8665.65	11289.60												
	RF Kg	95	128	181	275	627	1180	2200	3300	3693	4890	6950	10500												

Cast Steel Gate Valves 6170 PSI/420 Bar/Class 2500

Flexible Wedge • Pressure Sealed Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598

Temperature Range - 20 /-29 ~ +800 /+425



A834

Flanged

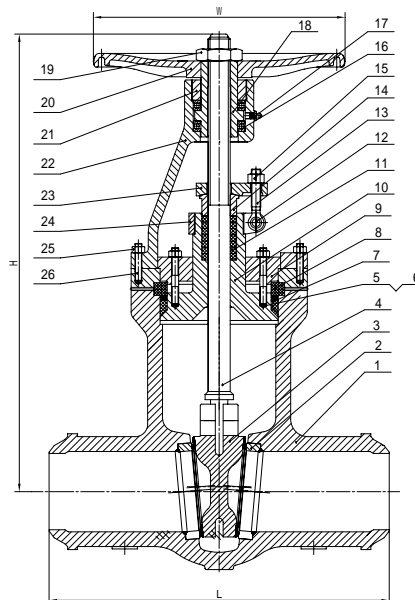
A833

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Seat Ring	ASTM A105+STL
3	Wedge	ASTM A216 WCB+STL
4	Stem	ASTM A182 F6
5	Bonnet Bolt	ASTM A193 B7
6	Bonnet Nut	ASTM A194 2H
7	Packing	Flexible Graphite
8	Gasket	304+ Graphite
9	Bonnet Flanged	ASTM A216 WCB
10	Bonnet	ASTM A216 WCB
11	Packing	Flexible Graphite
12	Eye Bolt Pin	Carbon Steel
13	Gland Eye Bolt t	ASTM A193 B7
14	Gland	ASTM A276 410
15	Gland Nut	ASTM A194 2H
16	Bearing	Steel
17	Grease Nipple	Carbon Steel
18	Retaining Nut	AL - Bronze
19	Handwheel Nut	Carbon Steel
20	Handwheel	Ductile Iron
21	Stem Nut	Carbon Steel
22	Yoke	ASTM A216 WCB
23	Gland Flanged	ASTM A216 WCB
24	Hinge Clamp	ASTM A216 WCB
25	Bolt	ASTM A193 B7
26	Nut	ASTM A194 2H

*ASTM A351/A352 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		
	2	50	2 1/2	65	3	80	4	100	6	150	8	200	10	250	12	300	
L	RF	17.76	451	20.00	508	22.76	578	26.50	673	36.00	914	40.24	1022	50.00	1270	56.00	1422
	BW	11.00	279	13.00	330	14.49	368	18.00	457	24.00	610	30.00	762	36.00	914	41.00	1041
B		24.00	610	25.75	654	29.65	753	33.46	850	49.37	1254	54.09	1374	66.34	1685	73.74	1873
W		19.69	500	19.69	500	23.62	600	23.62	600	24.00	610	24.00	610	24.00	610	24.00	610
Weight	RF	Lbs	262.40	381.47	425.57	500.54	1583.19	2851.07	4956.84	6815.66							
		Kg	119	173	193	227	718	1293	2248	3091							
	BW	Lbs	189.63	293.27	313.11	344.00	1098.09	1962.45	3413.34	5137.65							
		Kg	86	133	142	156	498	890	1548	2330							

Cast Steel Globe Valves 300 PSI/20.7 Bar/Class 150

Plug Type Disc • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425



G234

Flanged

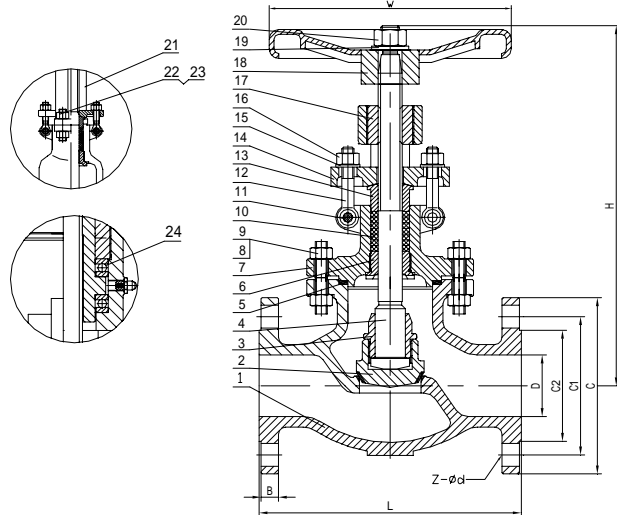
G233

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Disc	ASTM A105
3	Disc Nut	ASTM A276 420
4	Stem	ASTM A182 F6
5	Seat Ring	304+ Graphite
6	Bonnet Bushing	ASTM A182 F6
7	Bonnet	ASTM A216 WCB
8	Bonnet Bolt	ASTM A193 B7
9	Bonnet Nut	ASTM A194 2H
10	Stem Packing	Braided Graphite
11	Eye Bolt Pin	Carbon Steel
12	Gland Eye Bolt	ASTM A193 B7
13	Gland	ASTM A182 F6
14	Gland Flange	ASTM A216 WCB
15	Gasket	Carbon Steel
16	Eye Bolt Nut	ASTM A194 2H
17	Stem Nut	ASTM A439 D-2
18	Handwheel	Ductile Iron
19	Washer	Carbon Steel
20	Handwheel Nut	ASTM A194 2H
21	Yoke	ASTM A216 WCB
22	Yoke Bolt	ASTM A193 B7
23	Yoke Nut	ASTM A194 2H
24	Bearing	Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		In		mm		In		mm	
	2	50	2 1/2	65	3	80	4	100	6	150	8	200	10	250	12	300	14	350	16	400	18	450		
L	RF	8.00	203	8.50	216	9.49	241	11.50	292	16.00	406	19.49	495	24.49	622	27.48	698	31.00	787	36.00	914	38.46	977	
	BW	8.00	203	8.50	216	9.49	241	11.50	292	16.00	406	19.49	495	24.49	622	27.48	698	31.00	787	36.00	914	38.46	977	
H		13.58	345	16.34	415	15.94	405	19.09	485	20.47	520	23.62	600	30.00	762	33.94	862	56.77	1442	64.00	1625	70.87	1800	
W		7.87	200	7.87	200	9.84	250	11.81	300	13.78	350	17.72	450	19.69	500	25.20	640	29.92	760	29.92	760	29.92	760	
D		2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	8.00	203	10.00	254	12.00	305	13.27	337	15.24	387	17.24	438	
C		6.00	152	7.00	178	7.48	190	9.00	229	11.00	279	13.50	343	16.00	406	19.00	483	22.12	533	23.50	597	25.00	635	
C1		4.76	121	5.51	140	6.00	153	7.52	191	9.53	242	11.77	299	14.25	362	17.00	432	18.74	476	21.26	540	22.76	578	
C2		3.62	92	4.13	105	5.00	127	6.18	157	8.50	216	10.62	270	12.76	324	15.00	381	16.26	413	18.50	470	21.00	533	
B		0.63	16	0.71	18	0.75	19	0.94	24	1.00	26	1.14	29	1.22	31	1.26	32	1.38	35	1.46	37	1.57	40	
Z - φd		4-19		4-19		4-19		8-19		8-22		8-22		12-25		12-25		12-29		16-29		16-32		
Weight	Lbs	48.51		70.56		83.79		136.71		229.32		350.60		679.14		1188.50		1345.05		1940.40		2535.75		
	Kg	22		32		38		62		104		159		308		539		610		880		1150		

Cast Steel Globe Valves

740 PSI/51 Bar/Class 300

Plug Type Disc • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425



G334

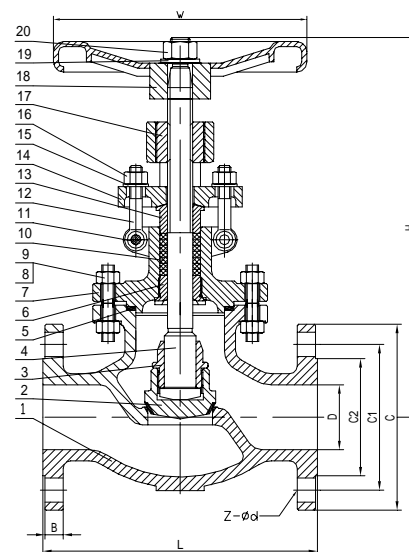
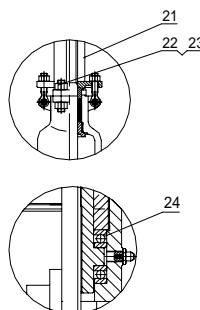
Flanged

G333

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA216 WCB
2	Disc	ASTMA105
3	Disc Nut	ASTMA276 420
4	Stem	ASTMA182 F6
5	Seat Ring	304+ Graphite
6	Bonnet Bushing	ASTMA182 F6
7	Bonnet	ASTMA216 WCB
8	Bonnet Bolt	ASTMA193 B7
9	Bonnet Nut	ASTMA194 2H
10	Stem Packing	Braided Graphite
11	Eye Bolt Pin	Carbon Steel
12	Gland Eye Bolt	ASTMA193 B7
13	Gland	ASTMA182 F6
14	Gland Flange	ASTMA216 WCB
15	Gasket	Carbon Steel
16	Eye Bolt Nut	ASTMA194 2H
17	Stem Nut	ASTMA439 D-2
18	Handwheel	Ductile Iron
19	Washer	Carbon Steel
20	Handwheel Nut	ASTMA194 2H
21	Yoke	ASTMA216 WCB
22	Yoke Bolt	ASTMA193 B7
23	Yoke Nut	ASTMA194 2H
24	Bearing	Steel



*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		In		mm		
	2	50	2 1/2	65	3	80	4	100	6	150	8	200	10	250	12	300	14	350			
L	RF	10.51	267	11.50	292	12.52	318	14.00	356	17.52	445	22.00	559	24.49	622	28.00	711	33.00	838		
	BW	10.51	267	11.50	292	12.52	318	14.00	356	17.52	445	22.00	559	24.49	622	28.00	711	33.00	838		
H		14.57	370	18.66	474	17.32	440	20.67	525	24.41	620	35.83	910	37.36	949	40.63	1032	50.59	1285		
W		7.87	200	9.84	250	9.84	250	13.78	350	17.72	450	22.05	560	23.62	600	25.20	640	25.20	640		
D		2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	8.00	203	10.00	254	12.00	305	13.27	337		
C		6.60	165	7.48	190	8.27	210	10.00	254	12.52	318	15.00	381	17.52	445	20.51	521	23.00	584		
C1		5.00	127	5.87	149	6.65	169	7.87	200	10.62	270	13.00	330	15.28	388	17.76	451	20.28	515		
C2		3.62	92	4.13	105	5.00	127	6.18	157	8.50	216	10.62	270	12.76	324	15.00	381	16.26	413		
B		0.91	23	1.00	26	1.14	29	1.26	32	1.46	37	1.65	42	1.89	48	2.00	51	2.13	54		
Z - φd		8-19		8-22		8-22		8-22		12-22		12-25		16-29		16-32		20-32			
Weight	Lbs	61.74		105.84		123.48		180.81		339.57		529.20		703.40		1362.69		1389.15			
	Kg	28		48		56		82		154		240		319		618		630			

Cast Steel Globe Valves

1480 PSI/100 Bar/Class 600

Plug Type Disc • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425



G434

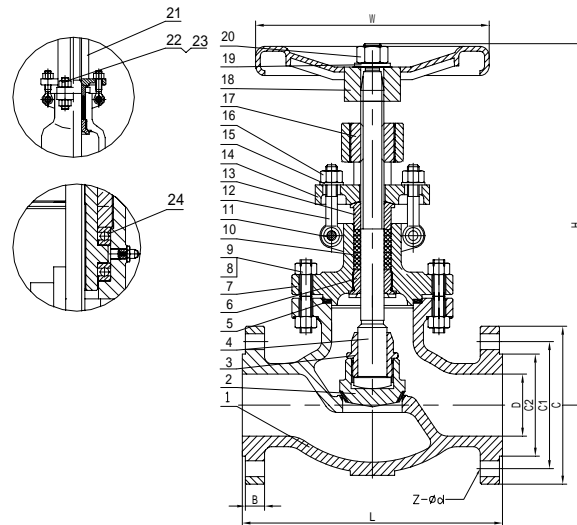
Flanged

G433

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Disc	ASTM A105
3	Disc Nut	ASTM A276 420
4	Stem	ASTM A182 F6
5	Seat Ring	304+ Graphite
6	Bonnet Bushing	ASTM A182 F6
7	Bonnet	ASTM A216 WCB
8	Bonnet Bolt	ASTM A193 B7
9	Bonnet Nut	ASTM A194 2H
10	Stem Packing	Braided Graphite
11	Eye Bolt Pin	Carbon Steel
12	Gland Eye Bolt	ASTM A193 B7
13	Gland	ASTM A182 F6
14	Gland Flange	ASTM A216 WCB
15	Washer	Carbon Steel
16	Eye Bolt Nut	ASTM A194 2H
17	Stem Nut	ASTM A439 D-2
18	Handwheel	Ductile Iron
19	Washer	Carbon Steel
20	Handwheel Nut	ASTM A194 2H
21	Yoke	ASTM A216 WCB
22	Yoke Bolt	ASTM A193 B7
23	Yoke Nut	ASTM A194 2H
24	Bearing	Steel



*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		
	2	50	2½	65	3	80	4	100	6	150	8	200	10	250	12	300	
L	RF	11.50	292	13.00	330	14.00	356	17.00	432	22.00	559	26.00	660	31.00	787	33.00	838
	BW	11.50	292	13.00	330	14.00	356	17.00	432	22.00	559	26.00	660	31.00	787	33.00	838
H		18.19	462	21.26	540	23.03	585	26.38	670	34.88	886	36.69	932	40.94	1040	50.39	1280
W		9.84	250	9.84	250	13.78	350	17.72	450	19.69	500	25.20	640	25.20	640	25.20	640
D		2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	7.87	200	9.76	248	11.73	298
C		6.60	165	7.48	190	8.27	210	10.75	273	14.00	356	16.50	419	20.00	508	22.00	559
C1		5.00	127	5.87	149	6.61	168	8.50	216	11.50	292	13.74	349	17.00	432	19.25	489
C2		3.62	92	4.13	105	5.00	127	6.18	157	8.50	216	10.62	270	12.76	324	15.00	381
B		1.00	26	1.14	29	1.26	32	1.50	38	1.89	48	5.50	56	2.52	64	2.64	67
Z - Ød		8-19		8-22		8-22		8-25		12-29		12-32		16-35		20-35	
Weight Lbs		125.69		154.35		187.43		271.22		890.82		992.25		1543.50		1984.50	
RF Kg		57		70		85		123		404		450		700		900	

Cast Steel Globe Valves 2130 PSI/150 Bar/Class 900

Plug Type Disc • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Seat Ring	ASTM A105+13Cr
3	Disc	ASTM A216 WCB+13Cr
4	Disc Nut	ASTM A276 420
5	Stem	ASTM A182 F6a
6	Gasket	304+ Graphite
7	Bonnet Bushing	ASTM A182 F6a
8	Bonnet	ASTM A216 WCB
9	Bonnet Bolt	ASTM A193 B7
10	Bonnet Nut	ASTM A194 2H
11	Stem Packing	Braided Graphite
12	Eye Bolt Pin	Carbon Steel
13	Gland Eye Bolt	ASTM A193 B7
14	Gland	ASTM A182 F6a
15	Gland Flange	ASTM A216 WCB
16	Washer	Carbon Steel
17	Eye Bolt Nut	ASTM A194 2H
18	Stem Nut	ASTM A439 D2
19	Handwheel	Ductile Iron
20	Washer	Carbon Steel
21	Handwheel Nut	ASTM A194 2H
22	Yoke	ASTM A216 WCB
23	Yoke Bolt	ASTM A193 B7
24	Yoke Nut	ASTM A194 2H
25	Bearing	Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.

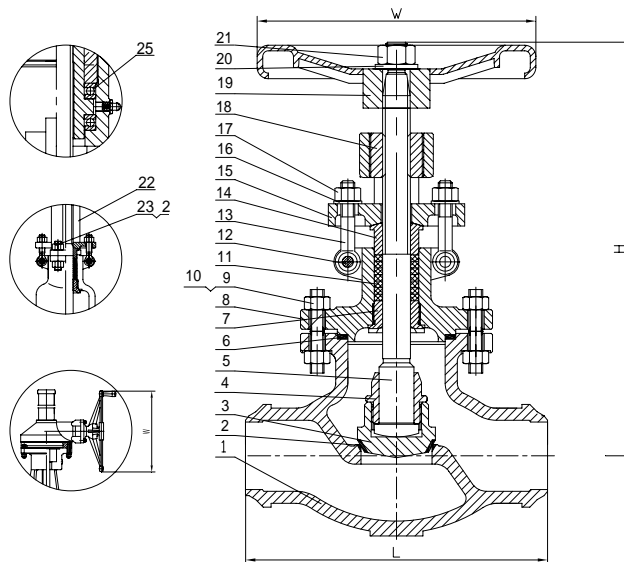


G634

Flanged

G633

Butt Weld



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		
	2	50	2 1/2	65	3	80	4	100	6	150	8	200	10	250	12	300	
L	RF	14.49	368	16.50	419	15.00	381	18.00	457	24.00	610	29.00	737	33.00	838	38.00	965
	BW	14.49	368	16.50	419	15.00	381	18.00	457	24.00	610	29.00	737	33.00	838	38.00	965
B		23.62	600	26.00	660	26.18	665	31.50	800	43.62	1108	46.61	1184	50.31	1278	67.13	1705
W		13.78	350	13.78	350	17.72	450	16.69	500	24.00	610	24.00	610	29.92	760	29.92	760
Weight	Lbs	209.48		304.29		551.25		959.18		1190.70		2028.60		3351.60		5093.55	
RF	Kg	95		138		122		195		435		1231		2200		2050	

Cast Steel Globe Valves 3705 PSI/250 Bar/Class 1500

Plug Type Disc • Bolted Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425



G734

Flanged

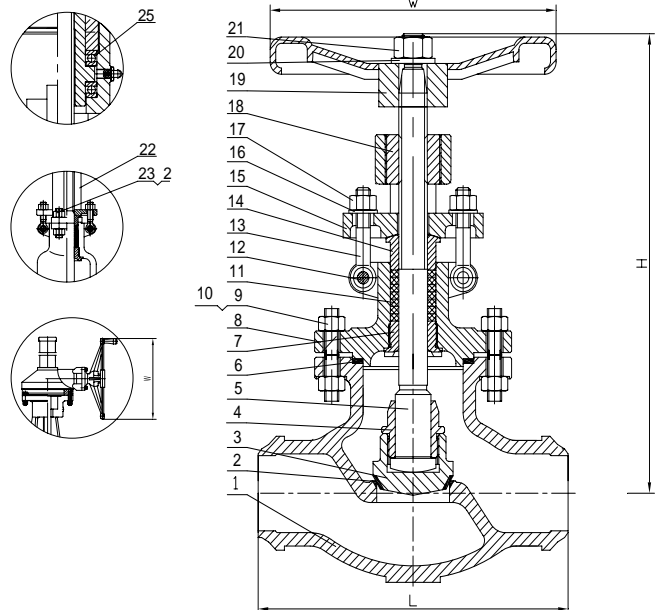
G733

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Seat Ring	ASTM A105+13Cr
3	Disc	ASTM A216 WCB+13Cr
4	Disc Nut	ASTM A276 420
5	Stem	ASTM A182 F6
6	Gasket	304+ Graphite
7	Bonnet Bushing	ASTM A182 F6
8	Bonnet	ASTM A216 WCB
9	Bonnet Bolt	ASTM A193 B7
10	Bonnet Nut	ASTM A194 2H
11	Stem Packing	Braided Graphite
12	Eye Bolt Pin	Carbon Steel
13	Gland Eye Bolt	ASTM A193 B7
14	Gland	ASTM A182 F6a
15	Gland Flange	ASTM A216 WCB
16	Washer	Carbon Steel
17	Eye Bolt Nut	ASTM A194 2H
18	Stem Nut	ASTM A439 D2
19	Handwheel	Ductile Iron
20	Washer	Carbon Steel
21	Handwheel Nut	ASTM A194 2H
22	Yoke	ASTM A216 WCB
23	Yoke Bolt	ASTM A193 B7
24	Yoke Nut	ASTM A194 2H
25	Bearing	Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		
	2	50	2 1/2	65	3	80	4	100	6	150	8	200	10	250	12	300	
L	RF	14.49	368	16.50	419	18.50	470	21.50	546	27.76	705	32.76	832	39.00	991	44.49	1130
	BW	14.49	368	16.50	419	18.50	470	21.50	546	27.76	705	32.76	832	39.00	991	44.49	1130
B		26.00	660	26.00	660	30.31	770	33.46	850	45.08	1145	52.95	1345	65.00	1651	79.92	2030
W		13.78	350	13.78	350	19.69	500	22.05	560	24.00	610	24.00	610	29.92	760	29.92	760
Weight	Lbs	209.48		304.29		551.25		959.18		1190.70		2028.60		3351.60		5093.55	
	Kg	95		138		250		435		540		920		1520		2310	

Cast Steel Globe Valves 6170 PSI/420 Bar/Class 2500

Plug Type Disc • Pressure Seal Bonnet • Rising Stem •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.2
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425



G834

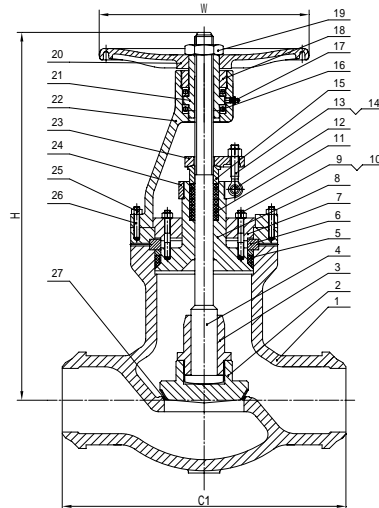
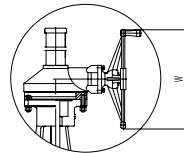
Flanged

G833

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Disc	ASTM A105+13Cr
3	Disc Nut	ASTM A276 410
4	Stem	ASTM A182 F6a
5	Packing	Flexible Graphite
6	Gasket	304+ Graphite
7	Gland Flange	ASTM A216 WCB
8	Bonnet	ASTM A216 WCB
9	Bonnet Bolt	ASTM A193 B7
10	Bonnet Nut	ASTM A194 2H
11	Packing	Flexible Graphite
12	Eye Bolt Pin	Carbon Steel
13	Gland Bolt	ASTM A194 2H
14	Gland Nut	ASTM A194 2H
15	Gland	ASTM A182 F6a
16	Bearing	Steel
17	Grease Nipple	Carbon Steel
18	Retaining Nut	Carbon Steel
19	Handwheel Nut	ASTM A194 2H
20	Handwheel	Ductile Iron
21	Stem Nut	ASTM A439 D2
22	Yoke	ASTM A216 WCB
23	Gland Flange	ASTM A216 WCB
24	Hinge Clamp	ASTM A216 WCB
25	Nut	ASTM A194 2H
26	Bolt	ASTM A194 2H
27	Seat Ring	ASTM A105+STL



*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		
	2	50	2½	65	3	80	4	100	6	150	8	200	10	250	12	300	
L	RF	17.76	451	20.00	508	22.76	578	26.50	673	36.00	914	40.24	1022	50.00	1270	56.00	1422
	BW	17.76	451	20.00	508	22.76	578	26.50	673	36.00	914	40.24	1022	50.00	1270	56.00	1422
B		22.05	560	28.35	720	29.72	755	48.43	1230	70.51	1791	82.13	2086	100.00	2540	106.00	2692
W		15.75	400	19.69	500	19.69	500	24.00	610	24.00	610	29.92	760	29.92	760	29.92	760
Weight	Lbs	216.09		255.78		392.49		961.38		2526.93		5715.36		8158.50		9261.00	
	RF Kg	98		116		178		436		1146		2592		3700		4200	

Cast Steel Check Valves 300 PSI/20.7 Bar/Class 150

Swing Type Disc • Bolted Cover • Welded Seat Ring

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API600, API598, NACE MR0175

Temperature Range - 20 /-29 ~ +800 /+425



C234

Flanged

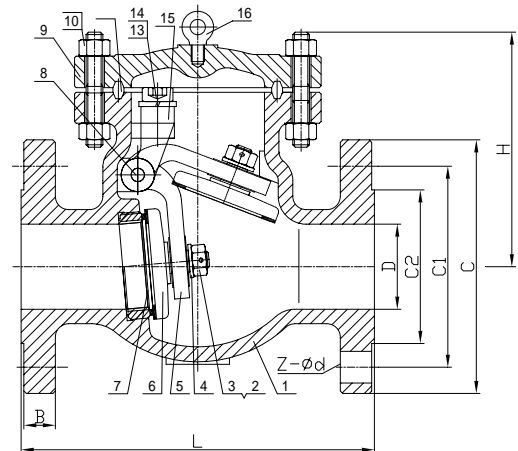
C233

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Disc Nut	ASTM A194 2H
3	Hanger Pin	ASTM A276 410
4	Disc Washer	ASTM A276 410
5	Hinger	ASTM A216 WCB
6	Disc	ASTM A216 WCB+13Cr
7	Seat Ring	ASTM A105+13Cr
8	Hanger Pin	ASTM A276 410
9	Cover	ASTM A216 WCB
10	Cover Bolt	ASTM A194 2H
11	Cover Nut	ASTM A194 2H
12	Gasket	304+ Graphite
13	Bolt	ASTM A193 B7
14	Spring Washer	Carbon Steel
15	Bearing Bracket	ASTM A216 WCB
16	Eye Bolt	Carbon Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	2	3	4	6	8	10	12	14	16	18	20	24	30	36	48	60	72	90												
L RF	8.00	203	8.50	216	9.49	241	11.50	292	14.00	356	19.49	495	24.49	622	27.52	699	11.30	287	34.00	864	38.50	978	38.50	978	50.98	1295	60.00	1524	77.00	1956
L BW	8.00	203	8.50	216	9.49	241	11.50	292	14.00	356	19.49	495	24.49	622	27.52	699	11.30	287	34.00	864	38.50	978	38.50	978	50.98	1295	60.00	1524	77.00	1956
H	6.10	155	6.69	170	7.09	180	8.66	220	10.55	268	12.20	310	14.57	370	16.73	425	18.70	475	20.67	525	22.83	580	24.72	628	34.72	882	45.24	1149	53.11	1349
D	2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	8.00	203	10.00	254	12.00	305	13.27	337	15.24	387	17.24	438	19.25	489	23.27	591	-	-	-	-
C	6.00	152	7.00	178	7.48	190	9.00	229	11.00	279	13.50	343	16.00	406	19.00	483	21.00	533	23.50	597	25.00	635	27.52	699	32.00	813	-	-	-	-
C1	4.76	121	5.51	140	6.00	153	7.52	191	9.53	242	11.77	299	14.25	362	17.00	432	18.74	476	21.26	540	22.76	578	25.00	635	29.53	750	-	-	-	-
C2	3.62	92	4.13	105	5.00	127	6.18	157	8.50	216	10.62	270	12.76	324	15.00	381	16.26	413	18.50	470	21.00	533	23.00	584	27.24	692	-	-	-	-
B	0.63	16	0.71	18	0.75	19	0.94	24	1.00	26	1.14	29	1.26	32	1.26	32	1.38	35	1.46	37	1.57	40	1.69	43	1.89	48	-	-	-	-
Z - φd	4-19	4-19	4-19	8-19	8-22	8-22	12-25	12-25	12-29	16-29	16-32	20-32	20-35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weight Lbs	41.90	57.33	63.95	101.43	169.79	359.42	485.10	807.03	943.74	1223.78	1708.88	1841.18	2601.90	4961.25	6945.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RF Kg	19	26	29	46	77	163	220	366	428	555	775	835	1180	2250	3150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Cast Steel Check Valves 740 PSI/51 Bar/Class 300

Swing Type Disc • Bolted Cover • Welded Seat Ring

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425

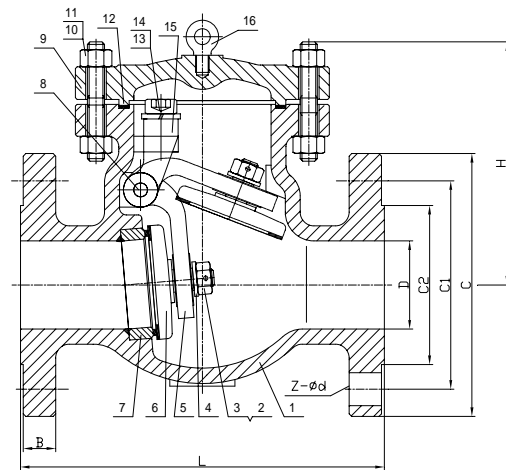


C334
Flanged
C333
Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Disc Nut	ASTM A194 2H
3	Hanger Pin	ASTM A276 410
4	Disc Washer	ASTM A276 410
5	Hinger	ASTM A216 WCB
6	Disc	ASTM A216 WCB+13Cr
7	Seat Ring	ASTM A105+13Cr
8	Hanger Pin	ASTM A276 410
9	Cover	ASTM A216 WCB
10	Cover Bolt	ASTM A194 2H
11	Cover Nut	ASTM A194 2H
12	Gasket	304+ Graphite
13	Bolt	ASTM A193 B7
14	Spring Washer	Carbon Steel
15	Bearing Bracket	ASTM A216 WCB
16	Eye Bolt	Carbon Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm		
	2	50	2½	65	3	80	4	100	6	150	8	200	10	250	12	300	14	350	16	400	18	450	20	500	24	600	30	750	36	900						
L	RF	10.51	267	11.50	292	12.52	318	14.00	356	17.48	444	21.00	533	24.49	622	28.00	711	33.00	838	34.00	864	38.50	978	40.00	1016	53.00	1346	62.76	1594	82.00	2083					
	BW	10.51	267	11.50	292	12.52	318	14.00	356	17.48	444	21.00	533	24.49	622	28.00	711	33.00	838	34.00	864	38.50	978	40.00	1016	53.00	1346	62.76	1594	82.00	2083					
H		6.89	175	7.28	185	7.80	198	9.25	235	11.10	282	13.19	335	15.16	385	18.11	460	20.47	520	21.81	554	23.62	600	26.38	670	29.53	750	32.68	830	41.34	1050					
D		2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	8.00	203	10.00	254	12.00	305	13.27	337	15.24	387	17.00	432	19.00	483	23.00	584	-	-	-	-					
C		6.60	168	7.48	190	8.27	210	10.00	254	12.52	318	15.00	381	17.52	445	20.51	521	23.00	584	25.51	648	28.00	711	30.51	775	36.00	914	-	-	-	-					
C1		5.00	127	5.87	149	6.65	169	7.87	200	10.62	270	13.00	330	15.28	388	17.76	451	20.28	515	22.48	571	24.76	629	27.00	686	32.00	813	-	-	-	-					
C2		3.62	92	4.92	125	5.00	127	6.18	157	8.50	216	10.62	270	12.76	324	15.00	381	16.26	413	18.50	470	21.00	533	23.00	584	27.24	692	-	-	-	-					
B		0.91	23	1.00	26	1.14	29	1.26	32	1.46	37	1.65	42	1.89	48	2.00	51	2.13	54	2.28	58	2.40	61	2.52	64	2.76	70	-	-	-	-					
Z-φd		8-19		8-22		8-22		8-22		12-22		12-25		16-29		16-32		20-32		20-35		24-35		24-35		24-41	-	-								
Weight Lbs		46.31		66.15		86.00		152.15		275.63		463.05		676.94		992.25		1499.40		1852.20		2260.13		2910.60		4321.80										
RF Kg		21		30		39		69		125		210		307		450		680		840		1025		1320		1960	-	-								

Cast Steel Check Valves 1080 PSI/76 Bar/Class 600

Swing Type Disc • Bolted Cover • Welded Seat Ring

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425



C434

Flanged

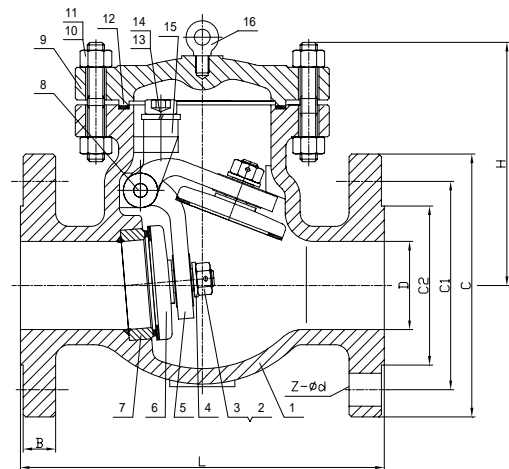
C433

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Disc Nut	ASTM A194 2H
3	Hanger Pin	ASTM A276 410
4	Disc Washer	ASTM A276 410
5	Hinger	ASTM A216 WCB
6	Disc	ASTM A216 WCB+13Cr
7	Seat Ring	ASTM A105+13Cr
8	Hanger Pin	ASTM A276 410
9	Cover	ASTM A216 WCB
10	Cover Bolt	ASTM A194 2H
11	Cover Nut	ASTM A194 2H
12	Gasket	304+ Graphite
13	Bolt	ASTM A193 B7
14	Spring Washer	Carbon Steel
15	Bearing Bracket	ASTM A216 WCB
16	Eye Bolt	Carbon Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	2	3	4	6	8	10	12	14	16	18	20	24	30	36	42	48	60	72	90	108	120	144	180	240	300
L	11.50	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00	66.00	78.00	91.00	104.00	117.00	140.00	163.00	186.00	219.00	270.00	330.00	408.00	486.00
RF	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1697	2097	2497	2897	3497	4097	4697	5697	6697	8197	10197	12197
BW	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1697	2097	2497	2897	3497	4097	4697	5697	6697	8197	10197	12197
H	182	200	227	292	325	390	490	528	572	660	700	746	860	1020	1180	1340	1500	1760	2020	2280	2760	3240	3960	4720	5480
D	64	64	76	102	152	200	248	298	327	375	419	464	559	654	749	844	939	1084	1229	1424	1619	1964	2309	2854	3399
C	140	190	210	273	356	419	508	559	603	686	743	813	940	1100	1260	1420	1580	1840	2100	2360	2840	3320	4080	4840	5600
C1	149	149	168	216	292	349	432	489	527	603	654	724	838	997	1157	1317	1477	1737	2000	2263	2767	3271	4031	4791	5551
C2	100	100	127	157	216	270	324	381	413	470	533	584	692	811	930	1049	1168	1387	1606	1825	2249	2673	3297	3921	4545
B	36	36	39	38	48	56	64	67	70	77	83	89	102	120	138	156	174	204	234	284	334	404	484	584	684
Z-Ød	8-22	8-22	8-22	8-25	12-29	12-32	16-35	20-35	20-38	24-45	24-45	24-51	8-22	8-22	8-22	8-25	12-29	12-32	16-35	20-35	20-38	24-45	24-45	24-51	8-22
Weight Lbs	79.38	108.05	154.35	269.00	593.15	1025.33	1483.97	1929.38	2191.77	2690.10	3572.10	4674.60	6835.50	9496.40	12157.30	16199.20	20241.10	24283.00	28324.90	34366.80	40408.70	48450.60	56492.50	68355.00	80217.50
RF Kg	36	49	70	122	269	465	673	875	994	1220	1620	2120	3100	4280	5460	7480	9500	11520	13540	16560	20580	24600	28620	34640	40660

Cast Steel Check Valves 2130 PSI/150 Bar/Class 900

Swing Type Disc • Bolted Cover • Welded Seat Ring

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425

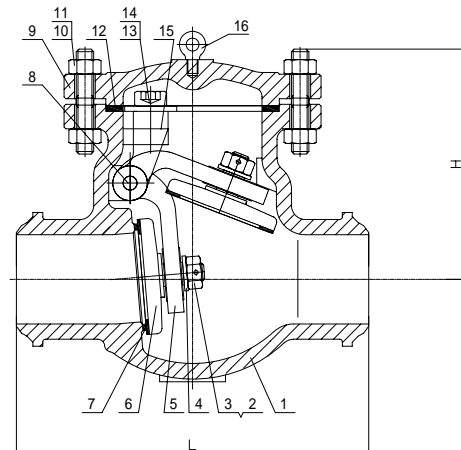


C634
Flanged
C633
Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA216 WCB
2	Disc Nut	ASTMA194 2H
3	Hanger Pin	Carbon Steel
4	Disc Washer	Carbon Steel
5	Hinger	ASTMA216 WCB
6	Disc	ASTMA216 WCB+13Cr
7	Seat Ring	ASTMA216 WCB+13Cr
8	Hanger Pin	ASTMA276 410
9	Cover	ASTMA216 WCB
10	Cover Bolt	ASTMA194 2H
11	Cover Nut	ASTMA194 2H
12	Gasket	304+ Graphite
13	Bolt	ASTMA193 B7
14	Spring Washer	Carbon Steel
15	Bearing Bracket	ASTMA216 WCB
16	Eye Bolt	Carbon Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	
	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	
L	RF	14.49	368	16.50	419	15.00	381	18.00	457	24.00	610	29.00	737	33.00	838	38.00	965	40.51	1029	44.49	1130	48.00	1219	52.00	1321
	BW	14.49	368	16.50	419	15.00	381	18.00	457	24.00	610	29.00	737	33.00	838	38.00	965	40.51	1029	44.49	1130	48.00	1219	52.00	1321
H		11.65	296	11.81	300	11.81	300	12.87	327	17.36	441	22.13	562	26.14	664	30.75	781	31.77	807	33.00	838	36.26	921	41.38	1051
Weight	Lbs	154.35		220.50		200.66		330.75		672.53		1124.55		1786.05		1918.35		2315.25		3201.66		4299.75		5292.00	
	RF Kg	70		100		91		150		305		510		810		870		1050		1452		1950		2400	

Cast Steel Check Valves 3705 PSI/250 Bar/Class 1500

Swing Type Disc • Bolted Cover • Welded Seat Ring

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425



C734

Flanged

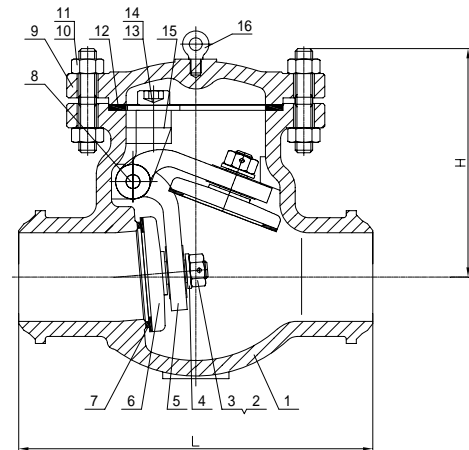
C733

Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Disc Nut	ASTM A194 2H
3	Hanger Pin	Carbon Steel
4	Disc Washer	Carbon Steel
5	Hinger	ASTM A216 WCB
6	Disc	ASTM A216 WCB+13Cr
7	Seat Ring	ASTM A216 WCB+13Cr
8	Hanger Pin	ASTM A276 410
9	Cover	ASTM A216 WCB
10	Cover Bolt	ASTM A194 2H
11	Cover Nut	ASTM A194 2H
12	Gasket	304+ Graphite
13	Bolt	ASTM A193 B7
14	Spring Washer	Carbon Steel
15	Bearing Bracket	ASTM A216 WCB
16	Eye Bolt	Carbon Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.



†Option: Pressure-sealed bonnet

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		
	2	50	2½	65	3	80	4	100	6	150	8	200	10	250	12	300	
L	RF	14.49	368	16.50	419	18.50	470	21.50	546	27.76	705	32.76	832	39.00	991	44.49	1130
	BW	14.49	368	16.50	419	18.50	470	21.50	546	27.76	705	32.76	832	39.00	991	44.49	1130
H		11.65	296	11.81	300	13.43	341	16.22	412	20.12	511	26.77	680	29.76	756	33.74	857
Weight	Lbs	154.35		220.50		330.75		540.23		1212.75		2227.05		3417.75		4806.90	
	RF Kg	70		100		150		245		550		1010		1550		2180	

Cast Steel Check Valves 6170 PSI/420 Bar/Class 2500

Swing Type Disc • Pressure Sealed Cover • Welded Seat Ring

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5, B16.25
API 600, API 598, NACE MR 0175

Temperature Range - 20 /-29 ~ +800 /+425

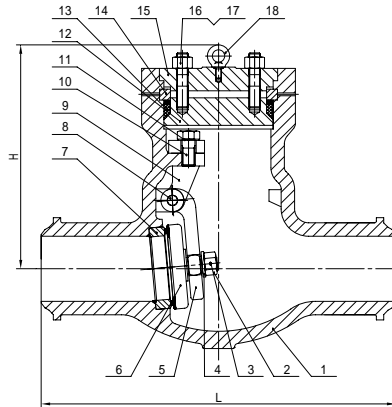


C834
Flanged
C833
Butt Weld

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A216 WCB
2	Disc Nut	ASTM A194 2H
3	Hanger Pin	Carbon Steel
4	Disc Washer	Carbon Steel
5	Hinger	ASTM A216 WCB
6	Disc	ASTM A216 WCB+ STL
7	Seat Ring	ASTM A105+STL
8	Hanger Pin	Carbon Steel
9	Bearing Bracket	ASTM A216 WCB
10	Bolt	ASTM A193 B7
11	Washer	Carbon Steel
12	Gland Flange	ASTM A216 WCB
13	Packing	Flexible Graphite
14	Gasket	Flexible Graphite
15	Cover	ASTM A216 WCB
16	Cover Bolt	ASTM A193 B7
17	Cover Nut	ASTM A194 2H
18	Eye Bolt	Carbon Steel

*ASTM A351/A352/A217 and other materials are available for valve body and accessories. Please consult factory for details.



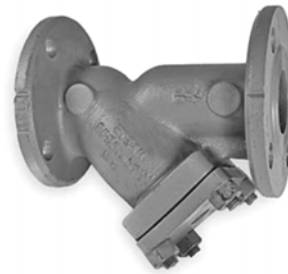
DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm		
	2	50	2 1/2	65	3	80	4	100	6	150	8	200	10	250	12	300	
L	RF	17.76	451	20.00	508	22.76	578	26.50	673	36.00	914	40.24	1022	50.00	1270	56.00	1422
	BW	11.00	279	13.00	330	14.49	368	18.00	457	24.00	610	30.00	762	36.00	914	41.00	1041
H		9.65	245	10.39	264	10.62	270	12.52	318	15.75	400	22.00	559	24.76	629	27.52	699
Weight	RF	Lbs	187.43	260.19	341.78	628.43	1653.75	2976.75	4740.75	6615.00							
		Kg	85	118	155	285	750	1350	2150	3000							
	BW	Lbs	136.71	191.84	253.58	465.26	1289.93	2205.00	3510.36	4899.51							
		Kg	62	87	115	211	585	1000	1592	2222							

Cast Steel Y-Strainer 740 PSI/51 Bar/Class 300

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 600, API 598

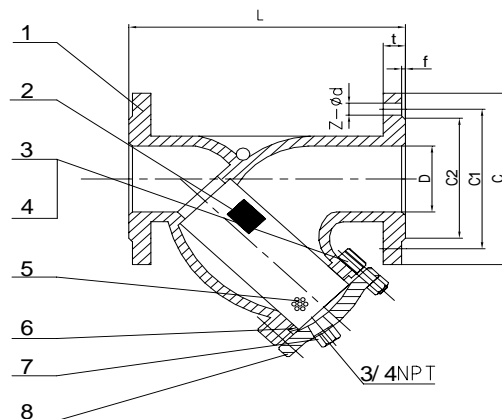
Temperature Range - 20 /-29 ~ +290 /+150



Y - 334
Flanged

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA216 WCB
2	Screen	SS 304
3	Bolt	ASTMA193 B7
4	Nut	ASTMA194 2H
5	Screen	SS 304
6	Gasket	SS 304+ Graphite
7	Plug	ASTMA105
8	Cover	ASTMA216 WCB



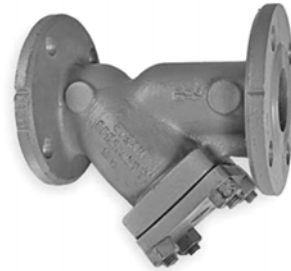
DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm	
	2	50	2 1/2	65	3	80	4	100	6	150	8	200	10	250	12	300
L	10.51	267	11.50	292	12.52	318	14.00	356	17.52	445	22.00	559	24.76	622	27.52	711
D	2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	8.00	203	10.00	254	12.00	305
C	6.60	168	7.48	190	8.27	210	10.00	254	12.52	318	15.00	381	17.52	445	20.51	521
C1	5.00	127	5.87	149	6.65	169	7.87	200	10.62	270	13.00	330	15.28	388	17.76	451
C2	3.62	92	4.92	125	5.00	127	6.18	157	8.50	216	10.62	270	12.76	324	15.00	381
F	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6
t	0.91	23	1.00	26	1.14	29	1.26	32	1.46	37	1.65	42	1.89	48	2.00	51
Z - φd	8-19		8-22		8-22		8-22		12-22		12-25		16-29		16-32	
Weight	Lbs	33.08	39.69	77.18	112.46	202.86	401.31	628.43	676.94							
RF	Kg	15	18	35	51	92	182	285	307							

Cast Steel Y-Strainer 1480 PSI/100 Bar/Class 600

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 600, API 598

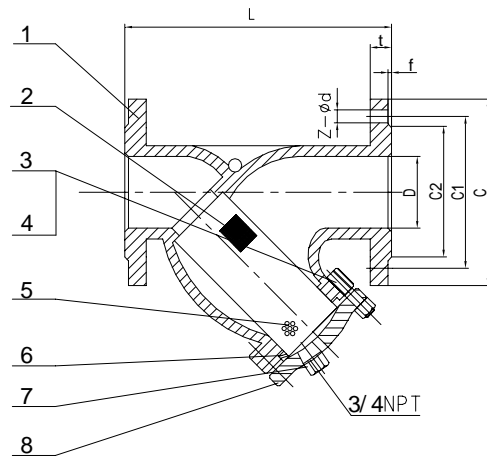
Temperature Range - 20 /-29 ~ +290 /+150



Y - 434
Flanged

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA216 WCB
2	Screen	SS 304
3	Bolt	ASTMA193 B7
4	Nut	ASTMA194 2H
5	Screen	SS 304
6	Gasket	SS 304+ Graphite
7	Plug	ASTMA105
8	Cover	ASTMA216 WCB



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm	
	2	50	2 1/2	65	3	80	4	100	6	150	8	200	10	250	12	300
L	11.50	292	13.00	330	14.00	356	17.00	432	22.00	559	26.00	660	31.00	787	33.00	838
D	2.00	51	2.52	64	3.00	76	4.00	102	6.00	152	7.87	200	9.76	248	11.73	298
C	6.60	168	7.52	191	8.27	210	10.75	273	14.00	356	16.50	419	20.00	508	22.00	559
C1	5.00	127	5.59	142	6.61	168	8.50	216	11.50	292	13.74	349	17.00	432	19.25	489
C2	3.62	92	4.13	105	5.00	127	6.18	157	8.50	216	10.62	270	12.76	324	15.00	381
f	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6
t	1.00	25	1.10	28	1.26	32	1.50	38	1.89	48	2.20	56	2.52	64	2.64	67
Z - Ød	8-19		8-22		8-22		8-25		12-29		12-32		16-35		20-35	
Weight Lbs	77.18		88.20		105.84		198.45		485.10		793.80		1102.50		1722.11	
RF Kg	35		40		48		90		220		360		500		781	

Forged Steel Gate Valves 300 PSI/20.7 Bar/Class 150

Reduced Bore • Bolted Bonnet • Double Packing •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 602, API 598

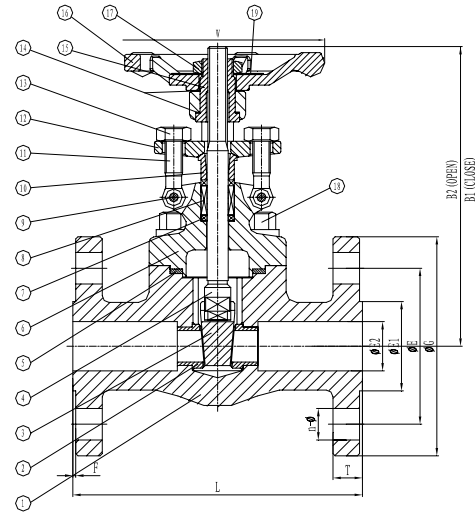


A244 - B
Flanged

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Seat	ASTMA276 - 410+STL
3	Wedge	ASTMA276 - 420
4	Stem	ASTMA276 - 410
5	Bonnet Gasket	SS 304+ Flexible Graphite
6	Bonnet	ASTMA105
7	Packing	Flexible Graphite
8	Packing	Flexible Graphite
9	Pin	ASTMA276 -304
10	Gland	ASTMA276 - 420
11	Eye Bolt	ASTMA193 B7
12	Gland Flange	ASTMA105
13	Eye Bolt Nut	ASTMA194 2H
14	Gasket	ASTMA276 - 410
15	Stem Nut	ASTMA276 - 410
16	Handwheel	ASTMA197
17	Handwheel Nut	ASTMA194 2H
18	Bonnet Bolt	ASTMA193 B7
19	Name Plate	Aluminum

*F304, F316, F11, F22, F5 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		
	1/2	3/4	1	1 1/4	2	2 1/2	3	3 1/2	4	5	6	7	
L	4.25	108	4.61	117	5.00	127	5.51	140	6.60	165	7.00	178	
B1	5.39	137	5.39	137	6.46	164	7.68	195	8.18	208	9.37	238	
B2	6.00	153	6.00	153	7.20	183	8.74	222	9.45	240	11.00	279	
W	3.94	100	3.94	100	4.92	125	6.30	160	6.30	160	7.09	180	
G	3.50	89	3.86	98	4.25	108	4.61	117	5.00	127	6.00	152	
E	2.40	61	2.76	70	3.15	80	3.50	89	3.90	99	4.76	121	
E1	1.50	38	1.69	43	2.00	51	2.52	64	2.87	73	3.62	92	
E2	0.51	13	0.51	13	0.71	18	0.94	24	1.14	29	1.45	36.8	
T	0.47	12	0.47	12	0.47	12	0.51	13	0.59	15	0.63	16	
F	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	
n-Φ	4-15		4-15		4-15		4-15		4-15		4-19		
Weight	Lbs	6.62		7.72		7.72		15.00		22.93		31.75	
	Kg	3.0		3.5		3.5		6.8		10.4		14.4	

Forged Steel Gate Valves 740 PSI/51 Bar/Class 300

Reduced Bore • Bolted Bonnet • Double Packing •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 602, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Seat	ASTMA276 - 410+STL
3	Wedge	ASTMA276 - 420
4	Stem	ASTMA276 - 410
5	Bonnet Gasket	SS 304+ Flexible Graphite
6	Bonnet	ASTMA105
7	Packing	Flexible Graphite
8	Packing	Flexible Graphite
9	Pin	ASTMA276 -304
10	Gland	ASTMA276 - 420
11	Eye Bolt	ASTMA193 B7
12	Gland Flange	ASTMA105
13	Eye Bolt Nut	ASTMA194 2H
14	Gasket	ASTMA276 - 410
15	Stem Nut	ASTMA276 - 410
16	Handwheel	ASTMA197
17	Handwheel Nut	ASTMA194 2H
18	Bonnet Bolt	ASTMA193 B7
19	Name Plate	Aluminum

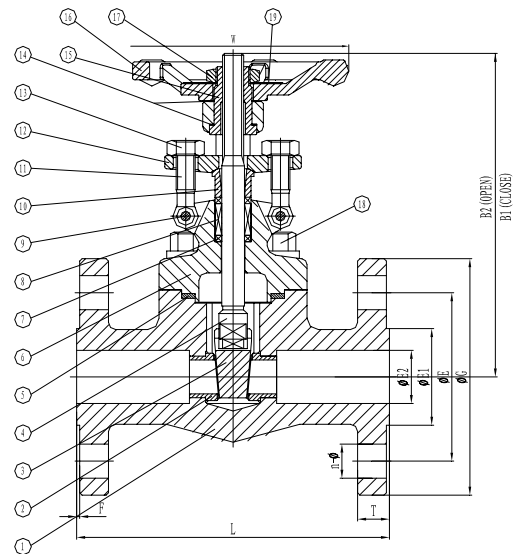
*F304, F316, F11, F22, F5 and other materials are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6
L	5.51	140	6.00	152	6.60	165	7.00	178	7.48	190	8.50	216
B1	5.39	137	5.39	137	6.46	164	7.68	195	8.18	208	9.37	238
B2	6.00	153	6.00	153	7.28	185	8.74	222	9.45	240	11.00	279
W	3.94	100	3.94	100	4.92	125	6.30	160	6.30	160	7.09	180
G	3.74	95	4.61	117	4.88	124	5.24	133	6.14	156	6.60	165
E	2.64	67	3.27	83	3.50	89	3.90	99	4.53	115	5.00	127
E1	1.38	35	1.69	43	2.00	51	2.52	64	2.87	73	3.62	92
E2	0.51	13	0.51	13	0.71	18	0.94	24	1.14	29	1.45	36.8
T	0.59	15	0.63	16	0.71	18	0.75	19	0.83	21	0.91	23
F	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6
n-Φ	4-15		4-19		4-19		4-19		4-22		8-19	
Weight	Lbs	7.94	10.80	15.44	20.73	29.33	39.69					
	Kg	3.6	4.9	7.0	9.4	13.3	18					



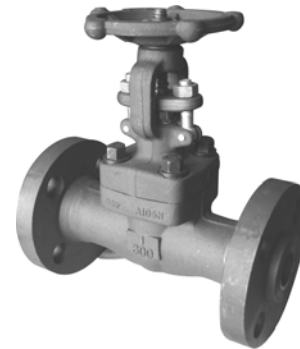
A344 - B
Flanged



Forged Steel Gate Valves 1480 PSI/100 Bar/Class 600

Reduced Bore • Bolted Bonnet • Double Packing •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 602, API 598

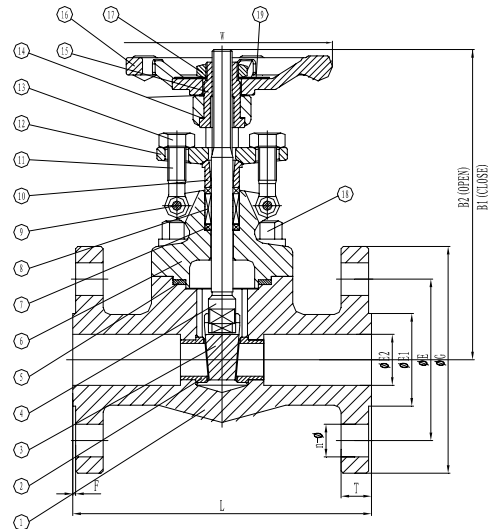


A444 - B
Flanged

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Seat	ASTMA276 - 410+STL
3	Wedge	ASTMA276 - 420
4	Stem	ASTMA276 - 410
5	Bonnet Gasket	SS 304+ Flexible Graphite
6	Bonnet	ASTMA105
7	Packing	Flexible Graphite
8	Packing	Flexible Graphite
9	Pin	ASTMA276 -304
10	Gland	ASTMA276 - 420
11	Eye Bolt	ASTMA193 B7
12	Gland Flange	ASTMA105
13	Eye Bolt Nut	ASTMA194 2H
14	Gasket	ASTMA276 - 410
15	Stem Nut	ASTMA276 - 410
16	Handwheel	ASTMA197
17	Handwheel Nut	ASTMA194 2H
18	Bonnet Bolt	ASTMA193 B7
19	Name Plate	Aluminum

*F304, F316, F11, F22, F5 and other materials are available for valve body and accessories. Please consult factory for details.



DIMENSIONS-WEIGHTS

Size	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
		1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2
L	6.60	165	7.48	190	8.50	216	9.00	229	9.49	241	11.50	292
B1	5.39	137	5.39	137	6.46	164	7.68	195	8.18	208	9.37	238
B2	6.00	153	6.00	153	7.28	185	8.74	222	9.45	240	11.00	279
W	3.93	100	3.93	100	4.92	125	6.30	160	6.30	160	7.09	180
G	3.74	95	4.65	118	4.88	124	5.24	133	6.14	156	6.60	165
E	2.64	67	3.27	83	3.50	89	3.90	99	4.53	115	5.00	127
E1	1.38	35	1.69	43	2.00	51	2.52	64	2.87	73	3.64	92
E2	0.51	13	0.51	13	0.71	18	0.94	24	1.14	29	1.45	36.8
T	0.59	15	0.63	16	0.71	18	0.83	21	0.91	23	1.00	26
F	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4
n - Φ	4-15		4-19		4-19		4-19		4-22		8-19	
Weight	Lbs	9.26	12.79	19.40	26.46	34.40	43.00					
	Kg	4.2	5.8	8.8	12	15.6	19.5					

Forged Steel Gate Valves 1975 PSI/130 Bar/Class 800

Reduced Bore • Double Packing • Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Seat	ASTM A276 - 410+STL
3	Wedge	ASTM A276 - 420
4	Stem	ASTM A276 - 410
5	Bonnet Gasket	SS 304+ Flexible Graphite
6	Bonnet	ASTM A105
7	Packing	Flexible Graphite
8	Packing	Flexible Graphite
9	Pin	ASTM A276 -304
10	Gland	ASTM A276 - 420
11	Eye Bolt	ASTM A193 B7
12	Gland Flange	ASTM A105
13	Eye Bolt Nut	ASTM A194 2H
14	Gasket	ASTM A276 - 410
15	Stem Nut	ASTM A276 - 410
16	Handwheel	ASTM A197
17	Handwheel Nut	ASTM A194 2H
18	Bonnet Bolt	ASTM A193 B7

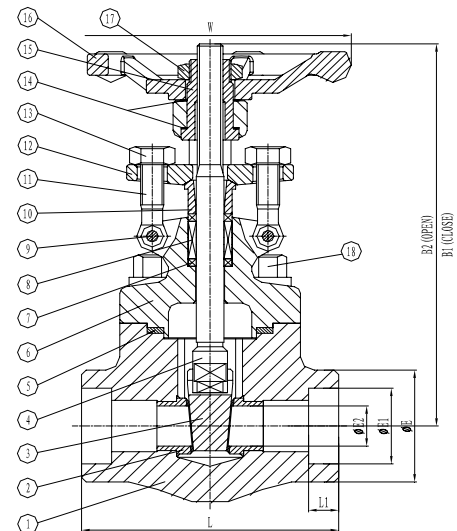


A542 - B

Bolted Bonnet

A542 - W

Welded Bonnet



* LF2, LF3, F304L, F316L, F11 and F12 are available for valve body and accessories. Please consult factory for details.

** A54-2 Socket Weld Ends
A54-1 Threaded Ends

† Available in both Reduced Bore and Full Bore.

DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm	
	1/4	8	3/8	10	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
L	3.11	79	3.11	79	3.11	79	3.62	92	4.37	111	4.72	120	4.72	120	5.51	140
L1	0.38	9.6	0.38	9.6	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B1	5.39	137	5.39	137	5.39	137	5.39	137	6.46	164	7.68	195	8.18	208	9.37	238
B2	5.87	149	5.87	149	6.00	153	6.00	153	7.28	185	8.74	222	9.45	240	11.00	279
W	3.94	100	3.94	100	3.94	100	3.94	100	4.92	125	6.30	160	6.30	160	7.09	180
E	1.34	34	1.34	34	1.34	34	1.57	40	1.93	49	2.28	58	2.52	64	3.07	78
E1	0.56	14.1	0.69	17.6	1.07	27.1	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.39	10	0.39	10	0.51	13	0.51	13	0.71	18	0.94	24	1.14	29	1.45	36.8
Weight	BB	Lbs	4.19	4.19	4.41	4.85	7.94	13.67	13.67	21.39						
		Kg	1.9	1.9	2.0	2.2	3.6	6.2	6.2	9.7						
	WB	Lbs	3.75	3.75	3.97	4.41	7.50	11.69	13.23	20.95						
		Kg	1.7	1.7	1.8	2.0	3.4	5.3	6.0	9.5						

Bellows Sealed Gate Valves 1975 PSI/130 Bar/Class 800

Reduced Bore • Double Packing • Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Seat	ASTMA276 410SS
3	Wedge	ASTMA276 420SS
4	Stem	ASTMA276 - 410
5	Bonnet Gasket	SS 304+ Flexible Graphite
6	Bonnet	ASTMA105
7	Bonnet Bolt	ASTMA193 B7
8	Packing	Flexible Graphite
9	Pin	ASTMA276 -304
10	Gland	ASTMA276 - 420
11	Gland Bolt	ASTMA193 B7
12	Gland Flange	ASTMA105
13	Gland Nut	ASTMA194 2H
14	Thrust Washer	ASTMA276 - 410
15	Grease Nipple	Brass
16	Handwheel	ASTMA197
17	Handwheel Nut	ASTMA194-2H
18	Name Plate	Aluminum
19	Washer	ASTMA276 - 410
20	Bellows	ASTMA276 -304

* A182, F304 and F316 are available for valve body and accessories.
Please consult factory for details.

** B54-2 Socket Weld Ends
B541-1 Threaded Ends

DIMENSIONS – WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
L	3.11	79	3.62	92	4.37	111	4.72	120	4.72	120	5.51	140
L1	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B1	8.90	226	8.90	226	8.90	226	13.82	351	13.82	351	16.26	413
B2	9.53	242	9.53	242	11.69	297	15.08	383	15.08	383	17.88	454
W	3.94	100	3.94	100	4.92	125	6.30	160	6.30	160	7.09	180
E	1.34	34	1.57	40	1.93	49	2.28	58	2.52	64	3.07	78
E1	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.51	13	0.51	13	0.71	18	0.94	24	1.14	29	1.45	36.8
Weight	BB	Lbs	6.39	7.06	13.00	19.18	22.49	35.28				
		Kg	2.9	3.2	5.9	8.7	10.2	16.0				
	WB	Lbs	6.39	7.28	11.47	15.88	19.62	29.77				
		Kg	2.9	3.3	5.2	7.2	8.9	13.5				

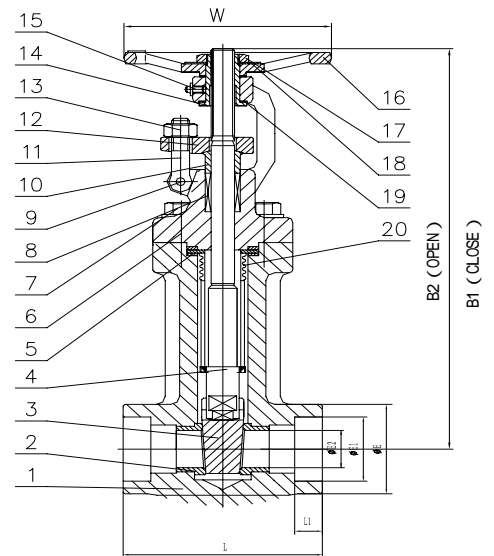


B542 - B

Bolted Bonnet

B542 - W

Welded Bonnet



Forged Steel Gate Valves 3705 PSI/250 Bar/Class 1500

Reduced Bore • Double Packing • Bolted Bonnet •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598



A742 - B

Socket Weld

A741 - B

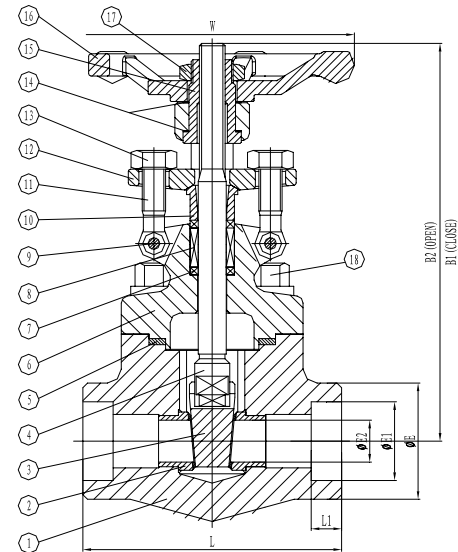
Threaded

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Seat	ASTMA276 - 410+STL
3	Wedge	ASTMA276 - 420
4	Stem	ASTMA276 - 410
5	Bonnet Gasket	SS 304+ Flexible Graphite
6	Bonnet	ASTMA105
7	Packing	Flexible Graphite
8	Packing	Flexible Graphite
9	Pin	ASTMA276 -304
10	Gland	ASTMA276 - 420
11	Eye Bolt	ASTMA193 B7
12	Gland Flange	ASTMA105
13	Eye Bolt Nut	ASTMA194 2H
14	Gasket	ASTMA276 - 410
15	Stem Nut	ASTMA276 - 410
16	Handwheel	ASTMA197
17	Handwheel Nut	ASTMA194 2H
18	Bonnet Bolt	ASTMA193 B7

* LF2, LF3, F5, F304 and F316 are available for valve body and accessories. Please consult factory for details.

**Available in both Reduced Bore and Full Bore.



DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm	
	1/4	8	3/8	10	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
L	3.11	79	3.62	92	3.62	92	4.37	111	4.72	120	4.72	120	5.51	140	6.30	160
L1	0.38	9.6	0.38	9.6	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B1	5.39	137	5.39	137	6.50	165	6.50	165	7.76	197	8.27	210	9.53	242	10.51	267
B2	5.87	149	5.87	149	7.13	181	7.13	181	8.58	218	9.33	237	10.79	274	12.13	308
W	3.94	100	3.94	100	4.92	125	4.92	125	6.30	160	6.30	160	7.09	180	7.87	200
E	1.34	34	1.34	34	1.65	42	1.93	49	2.28	58	2.52	64	3.07	78	3.46	88
E1	0.56	14.1	0.69	17.6	0.86	21.9	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.31	8	0.51	13	0.51	13	0.51	13	0.71	18	0.94	24	1.14	29	1.45	36.8
Weight	Lbs	6.62	21.64	7.72	8.82	13.23	15.44	23.18	34.18							
	Kg	3.0	3.2	3.5	4.0	6.0	7.0	10.8	15.5							

Forged Steel Gate Valves 3705PSI/250Bar/Class1500

Reduced Bore • Double Packing • Welded Bonnet •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API602, API598



A742 - W

Socket Weld

A741 - W

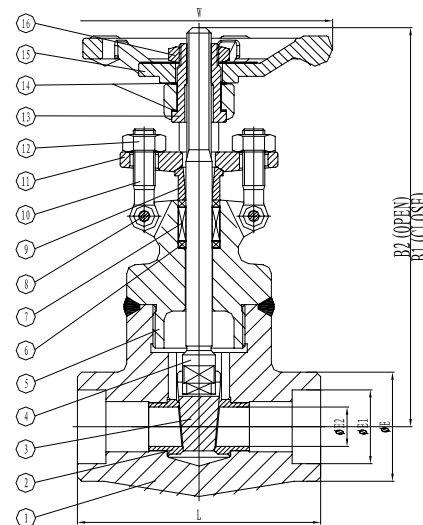
Threaded

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Seat	ASTM A276 - 410
3	Wedge	ASTM A276 - 420
4	Stem	ASTM A276 - 410
5	Bonnet	ASTM A105
6	Packing	Flexible Graphite
7	Packing	Flexible Graphite
8	Pin	ASTM A276 - 304
9	Gland	ASTM A276 - 420
10	Eye Bolt	ASTM A193 B7
11	Gland Flange	ASTM A105
12	Eye Bolt Nut	ASTM A194 2H
13	Stem Nut	ASTM A276 - 410
14	Gasket	ASTM A276 - 410
15	Handwheel	ASTM A197
16	Handwheel Nut	ASTM A194 2H

*LF2, LF3, F5, F304, F316 are available for valve body and accessories. Please contact the Engineering Department of the manufactory for details.

** Both reduced bore and full bore are permissible.



DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm	
	1/4	8	3/8	10	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
L	3.11	79	3.62	92	3.62	92	4.37	111	4.72	120	4.72	120	5.51	140	6.30	160
L1	0.38	9.6	0.38	9.6	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B1	5.39	137	5.39	137	6.50	165	6.50	165	7.76	197	8.27	210	9.53	242	10.51	267
B2	5.87	149	5.87	149	7.13	181	7.13	181	8.58	218	9.33	237	10.79	274	12.13	308
W	3.94	100	3.94	100	4.92	125	4.92	125	6.30	160	6.30	160	7.09	180	7.87	200
E	1.34	34	1.34	34	1.65	42	1.93	49	2.28	58	2.52	64	3.07	78	3.46	88
E1(0.56	14.1	0.69	17.6	0.86	21.9	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.31	8	0.51	13	0.51	13	0.51	13	0.71	18	0.94	24	1.14	29	1.45	36.8
Weight	Lbs	6.17	6.62	7.28	8.16	12.57	15.00	23.15	33.52							
	Kg	2.8	3.0	3.3	3.7	5.7	6.7	10.5	15.2							

Forged Steel Gate Valves 3705 PSI/250 Bar/Class 1500

Reduced Bore • Double Packing • Pressure Seal Bonnet •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105N
2	Seat	ASTMA276 - 410
3	Wedge	ASTMA276 - 420
4	Stem	ASTMA276 - 410
5	Seal Gland	ASTMA276 - 410
6	Gasket	ASTMA276 -304
7	Bonnet	ASTMA105
8	Packing	Flexible Graphite
9	Packing	Flexible Graphite
10	Pin	ASTMA276 -304
11	Eye Bolt	ASTMA193 B7
12	Gland Nut	ASTMA194 - 2H
13	Packing Gland	ASTMA276 - 420
14	Gland Flange	ASTMA105
15	Stem Nut	ASTMA276 - 410
16	Gasket	ASTMA276 - 410
17	Handwheel	ASTMA197
18	Handwheel Nut	ASTMA194 - 2H
19	Gland Washer	ASTMA276 - 410
20	Gland Nut	ASTMA194 - 2H

*LF2, F11, F22, LF3, F5, F304 and F306 are available for valve body and accessories. Please consult factory for details.

DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	1 1/4	2	2 1/2	3	3 1/2	4	5	6	8
L	5.51	140	5.51	140	5.51	140	7.00	178	7.00	178	8.50	216
L1	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B	12.64	321	12.64	321	12.64	321	14.96	380	16.30	414	19.76	502
W	7.87	200	7.87	200	7.87	200	11.81	300	11.81	300	11.81	300
E	2.17	55	2.17	55	2.17	55	3.35	85	3.35	85	3.94	100
E1	0.85	21.7	1.09	27.6	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.51	13	0.51	13	0.71	18	0.94	24	1.14	29	1.45	36.8
Weight	Lbs	25.36	23.81	23.15	43.22	46.31	122.16					
	Kg	11.5	10.8	10.5	19.6	21.0	55.4					

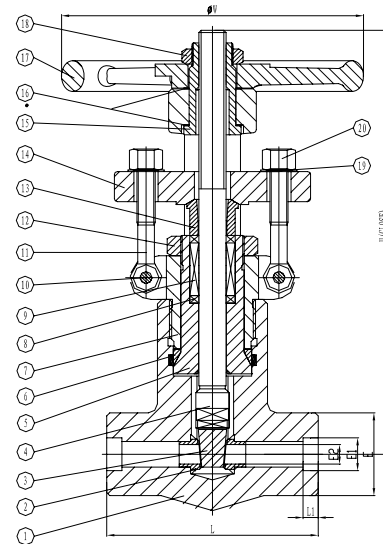


A742 - P

Socket Weld

A741 - P

Threaded



Forged Steel Gate Valves 6170 PSI/420 Bar/Class 2500

Reduced Bore • Double Packing • Pressure Seal Bonnet •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105N
2	Seat	ASTMA276 - 410
3	Wedge	ASTMA276 - 420
4	Stem	ASTMA276 - 410
5	Seal Gland	ASTMA276 - 410
6	Gasket	ASTMA276 -304
7	Bonnet	ASTMA105
8	Packing	Flexible Graphite
9	Packing	Flexible Graphite
10	Pin	ASTMA276 -304
11	Eye Bolt	ASTMA193 B7
12	Gland Nut	ASTMA194 - 2H
13	Packing Gland	ASTMA276 - 420
14	Gland Flange	ASTMA105
15	Stem Nut	ASTMA276 - 410
16	Gasket	ASTMA276 - 410
17	Handwheel	ASTMA197
18	Handwheel Nut	ASTMA194 - 2H
19	Gland Washer	ASTMA276 - 410
20	Gland Nut	ASTMA194 - 2H

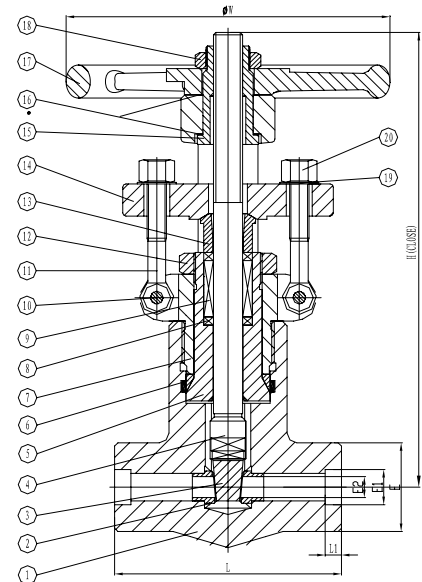
*LF2, F11, F22, LF3, F5, F304 and F306 are available for valve body and accessories. Please consult factory for details.

DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	
L	7.32	186	7.32	186	7.32	186	9.13	232	9.13	232	11.00	279
L1	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B	12.64	321	12.64	321	12.64	321	14.96	380	16.30	414	19.76	502
W	7.87	200	7.87	200	7.87	200	11.81	300	11.81	300	11.81	300
E	2.17	55	2.17	55	2.17	55	3.35	85	3.35	85	3.94	100
E1	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.51	13	0.51	13	0.71	18	0.94	24	1.14	29	1.45	36.8
Weight	Lbs	27.12	25.58	23.81	57.33	62.62	132.30					
	Kg	12.3	11.6	10.8	26.0	28.4	60.0					



A842 - P
Socket Weld
A841 - P
Threaded



Forged Steel Globe Valves 300 PSI/20.7 Bar/Class 150

Reduced Bore • Outside Screw and Yoke • Bolted Bonnet

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 602, API 598

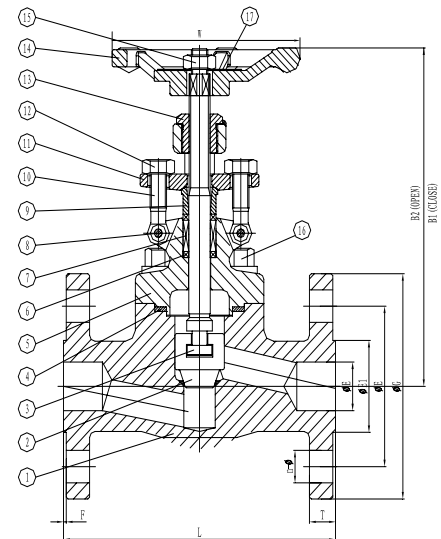
MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Disc	ASTMA276 - 410
3	Stem	ASTMA276 - 410
4	Bonnet Gasket	304 Flexible Graphite
5	Bonnet	ASTMA105
6	Packing	Flexible Graphite
7	Packing	Flexible Graphite
8	Pin	ASTMA276 410
9	Packing Gland	ASTMA276 420
10	Eye Bolt	ASTMA193 B7
11	Gland Flange	ASTMA105
12	Eye Bolt Nut	ASTMA194 2H
13	Stem Nut	ASTMA276 410
14	Handwheel	ASTMA197
15	Handwheel Nut	ASTMA194 2H
16	Bonnet Bolt	ASTMA193 B7
17	Name Plate	Aluminum

* F304, F316, F11, F22 and F5 and other materials are available for valve body and accessories. Please consult factory for details.



G244 - B
Flanged



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		
	1/2	3/4	1	25	1 1/4	32	1 1/2	40	2	50			
L	4.25	108	4.61	117	5.00	127	5.51	140	6.60	165	8.00	203	
B1	5.83	148	5.83	148	6.93	176	8.23	209	8.70	221	10.04	255	
B2	6.22	158	6.22	158	7.56	192	8.94	227	9.49	241	11.00	279	
W	3.94	100	3.94	100	4.92	125	6.30	160	6.30	160	7.09	180	
G	3.50	89	3.86	98	4.25	108	4.61	117	5.00	127	6.00	152	
E	2.38	60.5	2.76	70	3.13	79.5	3.50	89	3.88	98.5	4.74	120.5	
E1	1.38	35	1.69	43	2.00	51	2.52	64	2.87	73	3.62	92	
E2	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35	
T	0.47	12	0.47	12	0.47	12	0.51	13	0.59	15	0.63	16	
F	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	
n-Φ	4 - 15		4 - 15		4 - 15		4 - 15		4 - 15		4 - 19		
Weight	Lbs	9.92		15.21		21.61		29.77		43.00		61.74	
	Kg	4.5		6.9		9.8		13.5		19.5		28.0	

Forged Steel Globe Valves 740 PSI/51 Bar/Class 300

Reduced Bore • Outside Screw and Yoke • Bolted Bonnet

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 602, API 598

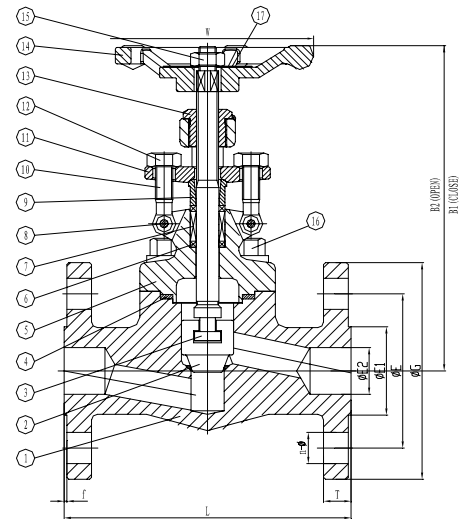
MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Disc	ASTMA276 - 410
3	Stem	ASTMA276 - 410
4	Bonnet Gasket	SS 304 Flexible Graphite
5	Bonnet	ASTMA105
6	Packing	Flexible Graphite
7	Packing	Flexible Graphite
8	Pin	ASTMA276 410
9	Packing Gland	ASTMA276 420
10	Eye Bolt	ASTMA193 B7
11	Gland Flange	ASTMA105
12	Eye Bolt Nut	ASTMA194 2H
13	Stem Nut	ASTMA276 410
14	Handwheel	ASTMA197
15	Handwheel Nut	ASTMA194 2H
16	Bonnet Bolt	ASTMA193 B7
17	Name Plate	Aluminum

* F304, F316, F11, F22, F5 and other materials are available for valve body and accessories. Please consult factory for details.



G344 - B
Flanged



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	
L	6.00	7.00	8.00	8.50	9.00	10.51	152	178	203	216	229	267
G	3.74	4.61	4.88	5.24	6.14	6.60	95	117	124	133	156	165
E	2.62	3.25	3.50	3.88	4.51	5.00	66.5	82.5	89	98.5	114.5	127
T	0.59	0.63	0.71	0.75	0.83	0.91	15	16	18	19	21	23
n - Φ	4 - 15	4 - 19	4 - 19	4 - 19	4 - 22	8 - 19						
Weight	Lbs	10.58	17.00	24.26	37.04	46.75	71.88					
	Kg	4.8	7.7	11.0	16.8	21.2	32.6					

Forged Steel Globe Valves 1480 PSI/100 Bar/Class 600

Reduced Bore • Outside Screw and Yoke • Bolted Bonnet

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 602, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Disc	ASTMA276 - 410
3	Stem	ASTMA276 - 410
4	Bonnet Gasket	SS 304 Flexible Graphite
5	Bonnet	ASTMA105
6	Packing	Flexible Graphite
7	Packing	Flexible Graphite
8	Pin	ASTMA276 410
9	Packing Gland	ASTMA276 420
10	Eye Bolt	ASTMA193 B7
11	Gland Flange	ASTMA105
12	Eye Bolt Nut	ASTMA194 2H
13	Stem Nut	ASTMA276 410
14	Handwheel	ASTMA197
15	Handwheel Nut	ASTMA194 2H
16	Bonnet Bolt	ASTMA193 B7
17	Name Plate	Aluminum

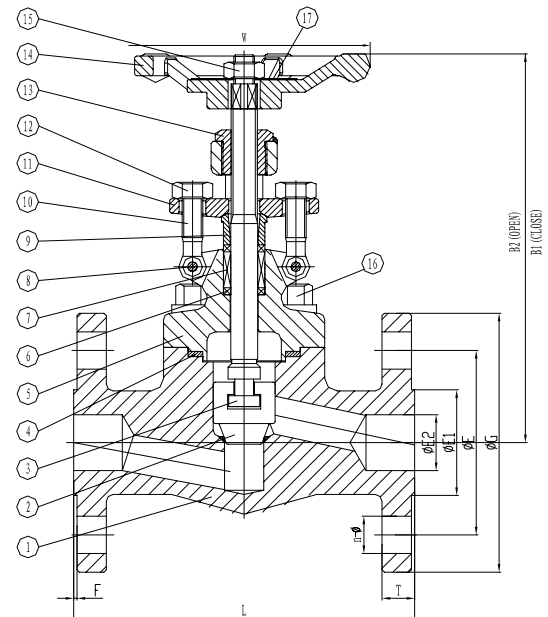
*F304, F316, F11, F22, F5 and other materials are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	
L	6.60	7.48	8.50	9.00	9.49	11.50	165	190	216	229	241	292
B1	5.83	5.83	6.93	8.23	8.70	10.04	148	148	176	209	221	255
B2	6.22	6.22	7.56	8.94	9.49	11.00	158	158	192	227	241	279
W	3.94	3.94	4.92	6.30	6.30	7.09	100	100	125	160	160	180
G	3.74	4.65	4.88	5.24	6.14	6.60	95	118	124	133	156	165
E	2.62	3.25	3.50	3.88	4.51	5.00	66.5	82.5	89	98.5	114.5	127
E1	1.38	1.69	2.00	2.52	2.87	3.62	35	43	51	64	73	92
E2	0.39	0.51	0.69	0.91	1.12	1.38	10	13	17.5	23	28.5	35
T	0.59	0.63	0.71	0.83	0.91	1.00	15	16	18	21	23	26
F	0.25	0.25	0.25	0.25	0.25	0.25	6.4	6.4	6.4	6.4	6.4	6.4
n-Φ	4 - 15		4 - 19		4 - 19		4 - 19		4 - 22		8 - 19	
Weight	Lbs	12.35	17.20	27.56	37.49	51.28	85.55					
	Kg	5.6	7.8	12.5	17.0	23.5	38.8					



G444 - B
Flanged



Forged Steel Globe Valves 1975 PSI/130 Bar/Class 800

Reduced Bore • Outside Screw and Yoke • Double Packing

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598



G542 - B

Bolted Bonnet

G542 - W

Welded Bonnet

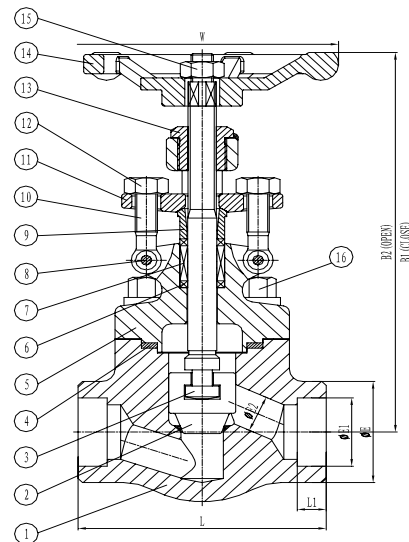
MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Stem	ASTM A276 410
4	Bonnet Gasket	SS 304 Flexible Graphite
5	Bonnet	ASTM A105
6	Packing	Flexible Graphite
7	Packing	Flexible Graphite
8	Pin	ASTM A276 410
9	Packing Gland	ASTM A276 420
10	Eye Bolt	ASTM A193 B7
11	Gland Flange	ASTM A105
12	Eye Bolt Nut	ASTM A194 2H
13	Stem Nut	ASTM A276 410
14	Handwheel	ASTM A197
15	Handwheel Nut	ASTM 2H
16	Bonnet Bolt	ASTM A193 B7

* LF2, LF3, F304, F316, F11 and F12 are available for valve body and accessories. Please consult factory for details.

** G54-2 Socket Weld Ends
G54-1 Threaded Ends

† Available in both Reduced Bore and Full Bore.



DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm	
	1/4	8	3/8	10	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
L	3.11	79	3.11	79	3.11	79	3.62	92	4.37	111	4.72	120	6.00	152	6.77	172
L1	0.38	9.6	0.38	9.6	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B1	5.83	148	5.83	148	5.83	148	5.83	148	6.93	176	8.23	209	8.70	221	10.04	255
B2	6.22	158	6.22	158	6.22	158	6.22	158	7.56	192	8.94	227	9.49	241	11.00	279
W	3.94	100	3.94	100	3.94	100	3.94	100	4.92	125	6.30	160	6.30	160	7.09	180
E	1.34	34	1.34	34	1.34	34	1.57	40	1.93	49	2.28	58	2.52	64	3.07	78
E1	0.56	14.1	0.69	17.6	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.26	6.5	0.26	6.5	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35
Weight	BB	Lbs	4.63	4.63	4.41	4.85	4.85	12.13	15.44	35.36						
		Kg	2.1	2.1	2.0	2.2	2.2	5.5	7.0	11.5						
	WB	Lbs	4.41	4.41	4.19	4.63	8.16	11.91	15.21	25.14						
		Kg	2.0	2.0	1.9	2.1	3.7	5.4	6.9	11.4						

Forged Steel Y-Pattern Valves 1975 PSI/130 Bar/Class 800

Reduced Bore • Double Packing • Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598



L542 - B

Bolted Bonnet

L542 - W

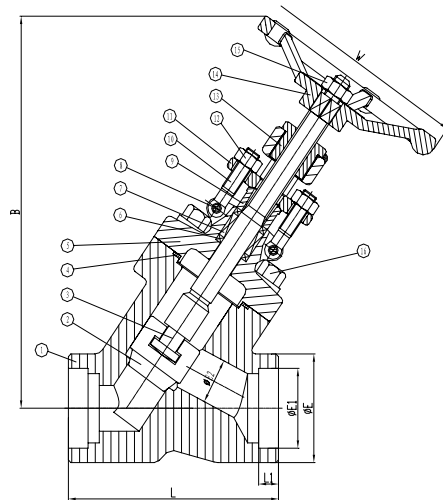
Welded Bonnet

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Stem	ASTM A276 410
4	Bonnet Gasket	SS 304 Flexible Graphite
5	Bonnet	ASTM A105
6	Packing	Flexible Graphite
7	Packing	Flexible Graphite
8	Pin	ASTM A276 410
9	Packing Gland	ASTM A276 420
10	Eye Bolt	ASTM A193 B7
11	Gland Flange	ASTM A105
12	Eye Bolt Nut	ASTM A194 2H
13	Stem Nut	ASTM A276 410
14	Handwheel	ASTM A197
15	Handwheel Nut	ASTM 2H
16	Bonnet Bolt	ASTM A193 B7

* LF2, LF3, F304, F316, F11 and F12 are available for valve body and accessories. Please consult factory for details.

** L54-2 Socket Weld Ends
L54-1 Threaded Ends



DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	25	1 1/4	32	1 1/2	40	2	50		
L	3.86	98	3.86	98	4.72	120	5.51	140	5.51	140	6.69	170
L1	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B	9.45	240	9.45	240	11.42	290	11.89	302	14.49	368	14.49	368
W	3.94	100	3.94	100	4.92	125	6.30	160	6.30	160	7.09	180
E	1.34	34	1.57	40	1.93	49	2.28	58	2.52	64	3.07	78
E1	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35
Weight	BB	Lbs	11.03	10.14	16.76	21.61	30.12	30.87				
		Kg	5.0	4.6	7.6	9.8	13.7	14.0				
	WB	Lbs	8.82	7.94	14.55	18.74	24.92	27.56				
		Kg	4.0	3.6	6.6	8.5	11.3	12.5				

Bellows Sealed Globe Valves 1850 PSI/130 Bar/Class 800

Reduced Bore • Outside Screw and Yoke • Double Packing

CONFORMS TO ASME ANSI B16.25, B16.11, B1.20.1
API 602 MSS SP - 117, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Bellows	ASTM A276 304
4	Stem	ASTM A276 410
5	Bonnet Gasket	SS 304 Flexible Graphite
6	Bonnet	ASTM A105
7	Bonnet Bolt	ASTM A193 B7
8	Packing	Flexible Graphite
9	Pin	ASTM A276 304
10	Packing Gland	ASTM A276 420
11	Gland Bolt	ASTM A193 B7
12	Gland Flange	ASTM A105
13	Gland Nut	ASTM A194 2H
14	Stem Nut	ASTM A276 410
15	Grease Nipple	Brass
16	Handwheel	ASTM A197
17	Handwheel Nut	ASTM A194 2H
18	Name Plate	Aluminum
19	Washer	ASTM A276 410

* A182, F304 and F316 are available for valve body and accessories.
Please consult factory for details.

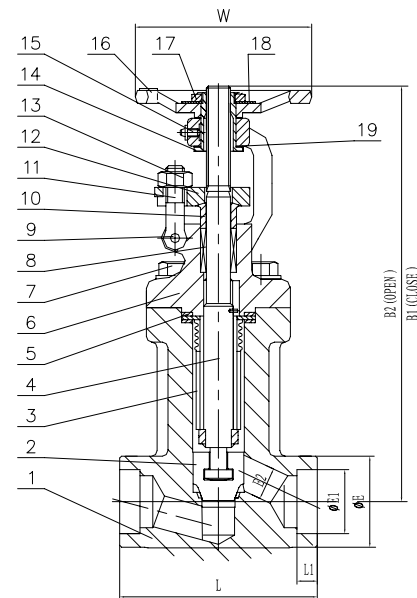
** BG54-2 Socket Weld Ends
BG54-1 Threaded Ends

DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	
L	3.11	79	3.62	92	4.37	111	6.00	152	6.00	152	6.77	172
L1	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B1	8.27	210	8.27	210	9.21	234	11.77	299	11.77	299	12.91	328
B2	8.66	220	8.66	220	9.76	248	12.48	317	12.48	317	13.70	348
W	3.94	100	3.94	100	4.92	125	6.30	160	6.30	160	7.09	180
E	1.34	34	1.57	40	1.93	49	2.28	58	2.52	64	3.07	78
E1	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35
Weight	BB	Lbs	6.62	10.58	17.60	24.26	37.04	55.57				
		Kg	3.0	4.8	7.98	11.0	16.8	25.2				
	WB	Lbs	6.17	8.82	15.44	21.17	29.77	44.54				
		Kg	2.8	4.0	7.0	9.6	13.5	20.2				



BG542 - B
Bolted Bonnet
BG542 - W
Welded



Forged Steel Globe Valves 3705 PSI/250 Bar/Class 1500

Reduced Bore • Double Packing • Bolted Bonnet •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Stem	ASTM A276 410
4	Bonnet Gasket	SS 304 Flexible Graphite
5	Bonnet	ASTM A105
6	Packing	Flexible Graphite
7	Packing	Flexible Graphite
8	Pin	ASTM A276 410
9	Packing Gland	ASTM A276 420
10	Eye Bolt	ASTM A193 B7
11	Gland Flange	ASTM A105
12	Eye Bolt Nut	ASTM A194 2H
13	Stem Nut	ASTM A276 410
14	Handwheel	ASTM A197
15	Handwheel Nut	ASTM 2H
16	Bonnet Bolt	ASTM A193 B7

* LF2, LF3, F304, F316, F11 and F12 are available for valve body and accessories. Please consult factory for details.

** Available in both Reduced Bore and Full Bore..

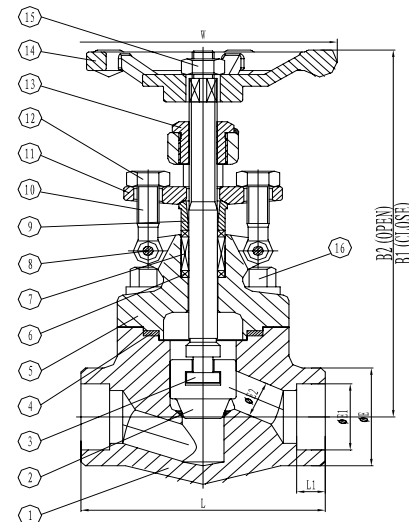


G742 - B

Socket Weld

G741 - B

Threaded



DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm	
	1/4	8	3/8	10	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
L	3.11	79	3.62	92	3.62	92	4.37	111	4.72	120	4.72	120	5.51	140	6.30	160
L1	0.38	9.6	0.38	9.6	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B1	5.39	137	5.39	137	6.97	177	6.97	177	8.31	211	8.82	224	10.16	258	11.85	301
B2	5.87	149	5.87	149	7.36	187	7.36	187	8.94	227	9.53	242	10.94	278	12.80	325
W	3.94	100	3.94	100	4.92	125	4.92	125	6.30	160	6.30	160	7.09	180	7.87	200
E	1.34	34	1.57	40	1.65	42	1.93	49	2.28	58	2.52	64	3.07	78	3.46	88
E1	0.56	14.1	0.69	17.6	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.31	8	0.39	10	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35
Weight	Lbs	6.62	7.72	7.72	8.82	13.89	17.64	27.56	43.00							
	Kg	3.0	3.5	3.5	4.0	6.3	8.0	12.5	19.5							

Forged Steel Globe Valves 3705 PSI/250 Bar/Class 1500

Reduced Bore • Double Packing • Welded Bonnet •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598



G742 - W
Socket Weld

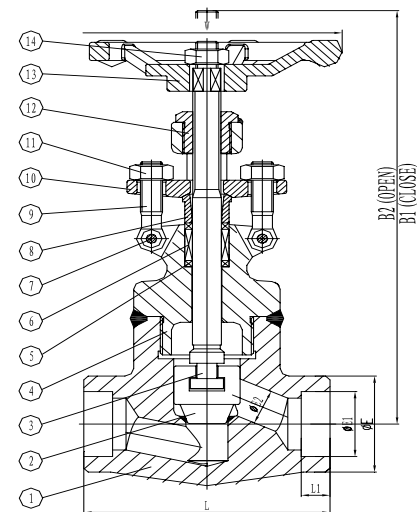
G741 - W
Threaded

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Stem	ASTM A276 410
4	Bonnet	ASTM A105
5	Packing	Flexible Graphite
6	Packing	Flexible Graphite
7	Pin	ASTM A276 304
8	Packing Gland	ASTM A276 420
9	Eye Bolt	ASTM A193 B7
10	Gland Flange	ASTM A105
11	Gland Nut	ASTM A194 2H
12	Stem Nut	ASTM A276 410
13	Handwheel	ASTM A197
14	Handwheel Nut	ASTM A194 2H

* LF2, LF3, F304, F316, F11 and F12 are available for valve body and accessories. Please consult factory for details.

**Available in both Reduced Bore and Full Bore..



DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm	
	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	
L	3.11	79	3.62	92	3.62	92	4.37	111	4.72	120	4.72	120	5.51	140	6.30	160
L1	0.38	9.6	0.38	9.6	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B1	5.39	137	5.39	137	6.97	177	6.97	177	8.31	211	8.82	224	10.16	258	11.85	301
B2	5.87	149	5.87	149	7.36	187	7.36	187	8.94	227	9.53	242	10.94	278	12.80	325
W	3.94	100	3.94	100	4.92	125	4.92	125	6.30	160	6.30	160	7.09	180	7.87	200
E	1.34	34	1.57	40	1.65	42	1.93	49	2.28	58	2.52	64	3.07	78	3.46	88
E1	0.56	14.1	0.69	17.6	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.31	8	0.39	10	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35
Weight	Lbs	6.17	6.62	7.28	8.38	13.45	17.20	27.13	42.56							
	Kg	2.8	3.0	3.3	3.8	6.1	7.8	12.3	19.3							

Forged Steel Globe Valves 3705 PSI/250 Bar/Class 1500

Reduced Bore • Double Packing • Pressure Sealed Bonnet •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Stem	ASTM A276 410
4	Gasket Gland	ASTM A276 410
5	Gasket	ASTM A276 304
6	Bonnet	ASTM A105
7	Packing	Flexible Graphite
8	Packing	Flexible Graphite
9	Pin	ASTM A276 304
10	Eye Bolt	ASTM A193 B7
11	Gland Nut	ASTM A194 2H
12	Packing Gland	ASTM A276 420
13	Gland Flange	ASTM A105
14	Washer	ASTM A108 1020
15	Eye Bolt Nut	ASTM A194 2H
16	Stem Nut	ASTM A276 410
17	Handwheel	ASTM A197
18	Washer	ASTM A276 410
19	Handwheel Nut	ASTM A194 2H

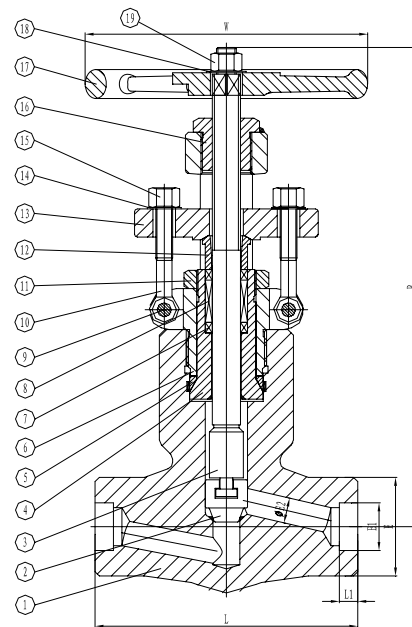
*LF2, LF3, F304, F316, F11 and F12 are available for valve body and accessories. Please consult factory for details.

DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	3/4	1	25	1 1/4	3	1 1/2	40	2	50		
L	5.51	140	5.51	140	5.51	140	7.00	178	7.00	178	8.50	216
L1	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B	13.11	333	13.11	333	13.11	333	16.06	408	16.06	408	20.63	524
W	7.87	200	7.87	200	7.87	200	11.81	300	11.81	300	11.81	300
E	2.17	55	2.17	55	2.17	55	3.35	85	3.35	85	3.94	100
E1	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35
Weight	Lbs	24.70	23.15	22.27	46.31	49.39	89.08					
	Kg	11.2	10.5	10.1	21.0	22.4	40.4					



G742 - P
Socket Weld
G741 - P
Threaded



Forged Steel Globe Valves 6170 PSI/420 Bar/Class 2500

Reduced Bore • Double Packing • Pressure Sealed Bonnet •
Outside Screw and Yoke

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Stem	ASTM A276 410
4	Gasket Gland	ASTM A276 410
5	Gasket	ASTM A276 304
6	Bonnet	ASTM A105
7	Packing	Flexible Graphite
8	Packing	Flexible Graphite
9	Pin	ASTM A276 304
10	Eye Bolt	ASTM A193 B7
11	Gland Nut	ASTM A194 2H
12	Packing Gland	ASTM A276 420
13	Gland Flange	ASTM A105
14	Washer	ASTM A108 1020
15	Eye Bolt Nut	ASTM A194 2H
16	Stem Nut	ASTM A276 410
17	Handwheel	ASTM A197
18	Washer	ASTM A276 410
19	Handwheel Nut	ASTM A194 2H

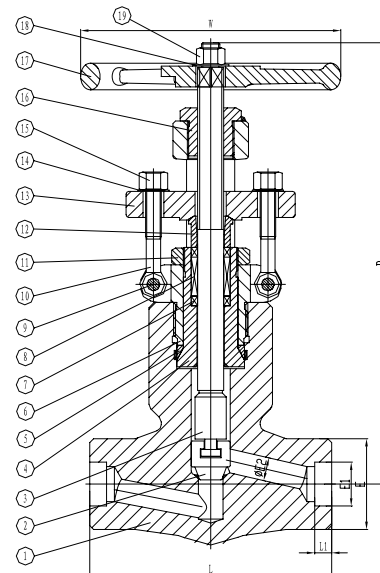
*LF2, LF3, F304, F316, F11 and F12 are available for valve body and accessories. Please consult factory for details.

DIMENSIONS - WEIGHTS

Size	In		mm		In		mm		In		mm	
	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
L	7.32	186	7.32	186	7.32	186	9.13	232	9.13	232	11.00	279
L1	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B	13.11	333	13.11	333	13.11	333	16.06	408	16.06	408	20.63	524
W	7.87	200	7.87	200	7.87	200	11.81	300	11.81	300	11.81	300
E	2.17	55	2.17	55	2.17	55	3.35	85	3.35	85	3.94	100
E1	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35
Weight	Lbs	27.12	25.58	23.81	58.21	63.25	96.58					
	Kg	12.3	11.6	10.8	26.4	28.7	43.8					



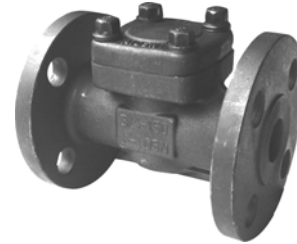
G842 - P
Socket Weld
G841 - P
Threaded



Forged Steel Check Valves 300 PSI/20.7 Bar/Class 150

Reduced Bore • Spring Return • Piston Bolted Cover

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 602, API 598



C244 - B
Flanged

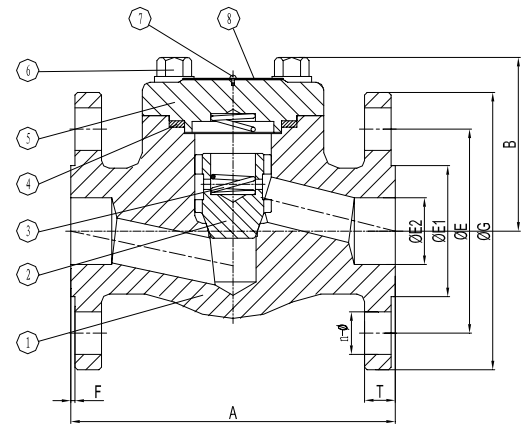
MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Disc	ASTMA276 420
3	Spring	ASTM A276 304
4	Bonnet Gasket	SS 304+ Flexible Graphite
5	Bonnet	ASTM A105
6	Bolt	ASTM A193 B7
7	Rivet	Carbon Steel
8	Name Plate	Aluminum

*F304, F316, F11, F22 and F5 are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

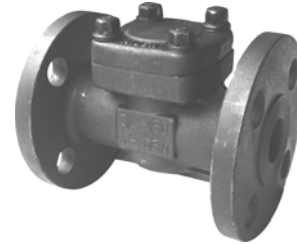
Size	In		mm		In		mm		In		mm		
	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50	
L	4.25	108	4.61	117	5.00	127	5.51	140	6.60	165	8.00	203	
B	2.15	54.5	2.15	54.5	2.83	72	3.19	81	3.70	94	4.41	112	
G	3.50	89	3.86	98	4.25	108	4.61	117	5.00	127	6.00	152	
E	2.38	60.5	2.76	70	3.13	79.5	3.50	89	3.88	98.5	4.74	120.5	
E1	1.38	35	1.69	43	2.00	51	2.52	64	2.87	73	3.62	92	
E2	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35	
T	0.47	12	0.47	12	0.47	12	0.51	13	0.59	15	0.63	16	
F	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	
n - Φ	4 - 15		4 - 15		4 - 15		4 - 15		4 - 15		4 - 19		
Weight	Lbs	7.50		9.70		18.08		19.62		26.46		31.53	
	Kg	3.4		4.4		8.2		8.9		12.0		14.3	



Forged Steel Check Valves 740 PSI/51 Bar/Class 300

Reduced Bore • Spring Return • Piston Bolted Cover

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 602, API 598



C344 - B
Flanged

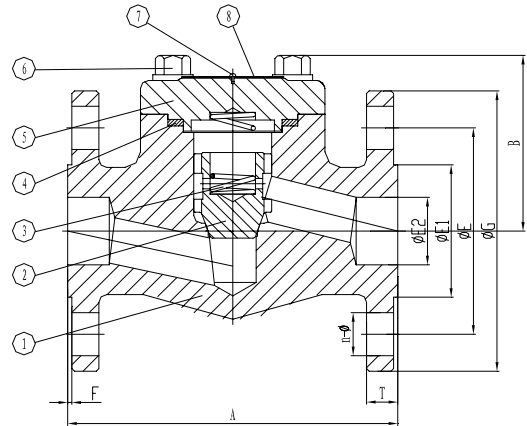
MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Spring	ASTM A276 304
4	Bonnet Gasket	SS 304+ Flexible Graphite
5	Bonnet	ASTM A105
6	Bolt	ASTM A193 B7
7	Rivet	Carbon Steel
8	Name Plate	Aluminum

*F304, F316, F11, F22 and F5 are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	
L	6.00	7.00	152	178	8.00	203	8.50	216	9.00	229	10.51	267	
B	2.15	2.15	54.5	54.5	2.83	72	3.19	81	3.70	94	4.41	112	
G	3.74	4.61	95	117	4.88	124	5.24	133	6.14	156	6.60	165	
E	2.62	3.25	66.5	82.5	3.50	89	3.88	98.5	4.51	114.5	5.00	127	
E1	1.38	1.69	35	43	2.00	51	2.52	64	2.87	73	3.62	92	
E2	0.39	0.51	10	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35	
T	0.59	0.63	15	16	0.71	18	0.75	19	0.83	21	0.91	23	
F	0.06	0.06	1.6	1.6	0.06	1.6	0.06	1.6	0.06	1.6	0.06	1.6	
n - Φ	4 - 15		4 - 19		4 - 19		4 - 19		4 - 22		8 - 19		
Weight	Lbs	8.16		10.58		19.40		21.17		30.21		39.25	
	Kg	3.7		4.8		8.8		9.6		13.7		17.8	



Forged Steel Check Valves 1480 PSI/100 Bar/Class 600

Reduced Bore • Spring Return • Piston Bolted Cover

CONFORMS TO ASME ANSI B16.34, B16.10, B16.5
API 602, API 598



C444 - B
Flanged

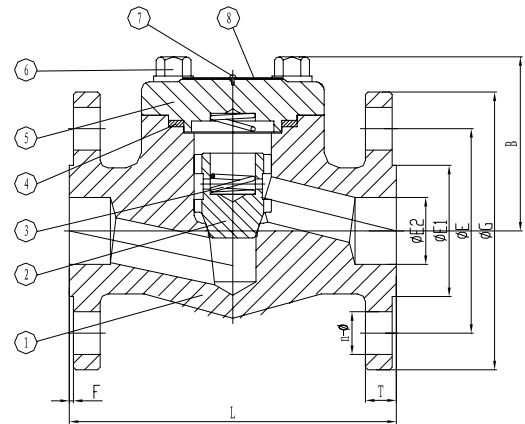
MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Disc	ASTMA276 420
3	Spring	ASTM A276 304
4	Bonnet Gasket	SS 304+ Flexible Graphite
5	Bonnet	ASTM A105
6	Bolt	ASTM A193 B7
7	Rivet	Carbon Steel
8	Name Plate	Aluminum

*F304, F316, F11, F22 and F5 and are available for valve body and accessories. Please consult factory for details.

DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		
	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50	
L	6060	165	7.48	190	8.50	216	9.00	229	9.49	241	11.50	292	
B	2.15	54.5	2.15	54.5	2.83	72	3.19	81	3.70	94	4.41	112	
G	3.74	95	4.65	118	4.88	124	5.24	133	6.14	156	6.60	165	
E	2.62	66.5	3.25	82.5	3.50	89	3.88	98.5	4.51	114.5	5.00	127	
E1	1.38	35	1.69	43	2.00	51	2.52	64	2.87	73	3.62	92	
E	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35	
T	0.59	15	0.63	16	0.71	18	0.83	21	0.91	23	1.00	26	
F	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	
n-Φ	4 - 15		4 - 19		4 - 19		4 - 19		4 - 22		8 - 19		
Weight	Lbs	8.82		12.79		20.95		22.93		34.40		54.02	
	Kg	4.0		5.8		9.5		10.4		15.6		24.5	



Forged Steel Check Valves 1975 PSI/130 Bar/Class 800

Reduced Bore • Spring Return • Piston Weld Cover

CONFORMS TO ASME ANSI B16.11, B16.25, B1.20.1
API 602, API 598



MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Spring	ASTM A276 304
4	Bonnet	ASTM A105
5	Name Plate	Aluminum
6	Rivet	Aluminum

* LF2, LF3, F304L, F316L, F11 and F12 are available for valve body and accessories. Please consult factory for details.

** C54-2 Socket Weld Ends
C54-1 Threaded Ends

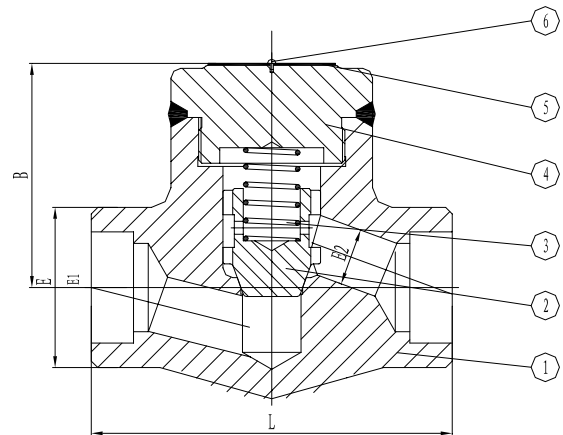
† Available in both Reduced Bore and Full Bore.

C542 - W

Welded Bonnet

C542 - B

Bolted Bonnet



DIMENSIONS-WEIGHTS

Size	1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		50		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
L	3.11	79	3.11	79	3.11	79	3.62	92	4.37	111	4.72	120	6.00	152	6.77	172			
L1	0.38	9.6	0.38	9.6	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9			
B	2.15	54.5	2.15	54.5	2.15	54.5	2.15	54.5	2.83	72	3.19	81	3.70	94	4.41	112			
E	1.34	34	1.34	34	1.34	34	1.57	40	1.93	49	2.28	58	2.52	64	3.07	78			
E1	0.56	14.1	0.69	17.6	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1			
E2	0.26	6.5	0.39	10	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35			
Weight	BB	Lbs	3.31	3.31	3.09	4.19	5.73	9.26	11.69	19.85									
		Kg	1.5	1.5	1.4	1.9	2.6	4.2	5.3	9.0									
	WB	Lbs	3.09	3.09	2.87	3.97	5.73	9.26	11.69	19.85									
		Kg	1.4	1.4	1.3	1.8	2.6	4.2	5.3	9.0									

† C542-W- O, Ball Disc
‡ C542-W- N, Swing Disc

Forged Steel Check Valves 3705 PSI/250 Bar/Class 1500

Reduced Bore • Spring Return • Piston Bolted Cover

CONFORMS TO ASME ANSI B16.11, B16.25, B1.20.1
API 602, API 598



C742 - B
Socket Weld

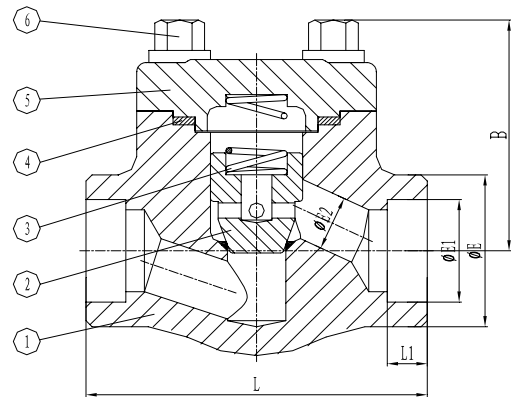
C741 - B
Threaded

MATERIAL LIST

No.	Part	Materials
1	Body	ASTMA105
2	Disc	ASTMA276 420
3	Spring	ASTMA276 304
4	Bonnet Gasket	SS 304+ Flexible Graphite
5	Bonnet	ASTMA105
6	Bolt	ASTMA193 B7

*LF2, LF3, F304L, F316L, F11 and F12 are available for valve body and accessories. Please consult factory for details.

†Available in both Reduced Bore and Full Bore.



DIMENSIONS-WEIGHTS

Size	1/4		3/8		1/2		3/4		1		1 1/4		1 1/2		2		50	
	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
L	3.11	79	3.11	79	3.62	92	4.37	111	4.72	120	6.00	152	6.77	172	8.66	220		
L1	0.38	9.6	0.38	9.6	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9		
B	2.87	73	2.87	73	2.87	73	2.87	73	3.31	84	3.58	97	4.53	115	5.20	132		
E	1.34	34	1.34	34	1.65	42	1.93	49	2.28	58	2.52	64	3.07	78	3.46	88		
E1	0.56	14.1	0.69	17.6	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1		
E2	0.26	6.5	0.39	10	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35		
Weight	Lbs	4.85	4.85	5.29	6.39	10.14	14.33	23.15	34.18									
	Kg	2.2	2.2	2.4	2.9	4.6	6.5	10.5	15.5									

† C742-B- O, Ball Disc
‡ C742-B- N, Swing Disc

Forged Steel Check Valves 3705 PSI/250 Bar/Class 1500

Reduced Bore • Spring Return • Piston Weld Cover

CONFORMS TO ASME ANSI B16.34, B16.11, B1.20.1
API 602, API 598



C742 - W

Socket Weld

C741 - W

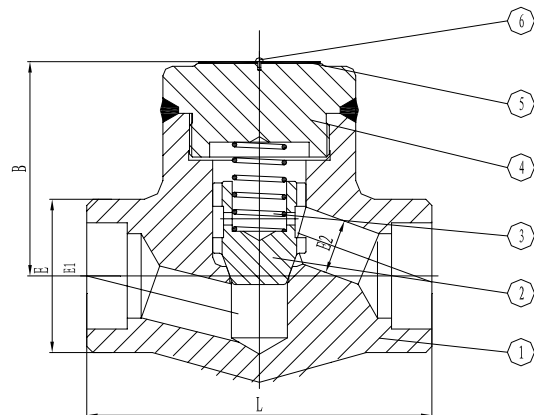
Threaded

MATERIAL LIST

No.	Part	Materials
1	Body	ASTM A105
2	Disc	ASTM A276 420
3	Spring	ASTM A276 304
4	Bonnet	ASTM A105
5	Name Plate	Aluminum
6	Rivet	Aluminum

* LF2, LF3, F304L, F316L, F11 and F12 are available for valve body and accessories. Please consult factory for details.

† Available in both Reduced Bore and Full Bore.



DIMENSIONS-WEIGHTS

Size	In		mm		In		mm		In		mm		In		mm	
	1/4	8	3/8	10	1/2	15	3/4	20	1	25	1 1/4	32	1 1/2	40	2	50
L	3.11	79	3.11	79	3.62	92	4.37	111	4.72	120	6.00	152	6.77	172	8.66	220
L1	0.38	9.6	0.38	9.6	0.38	9.6	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.63	15.9
B	2.87	73	2.87	73	2.87	73	2.87	73	3.31	84	3.58	91	4.53	115	5.20	132
E	1.34	34	1.34	34	1.65	42	1.93	49	2.28	58	2.52	64	3.07	78	3.46	88
E1	0.56	14.1	0.69	17.6	0.85	21.7	1.07	27.1	1.33	33.8	1.68	42.6	1.91	48.6	2.41	61.1
E2	0.26	6.5	0.39	10	0.39	10	0.51	13	0.69	17.5	0.91	23	1.12	28.5	1.38	35
Weight	Lbs	4.85	4.85	5.29	6.39	10.14	14.33	23.15	34.18							
	Kg	2.2	2.2	2.4	2.9	4.6	6.5	10.5	15.5							

† C742-W- O, Ball Disc
‡ C742-W- N, Swing Disc

Stem Data & Operating Torques for Cast Steel Gate Valve

Class150 – 2500 LB

MODEL	CLASS	ITEM	VALVE SIZE (In)														
			2	2½	3	4	6	8	10	12	14	16	18	20	24	28	30
A234	150	Stem Thread O.D	¾	¾	7/8	1	1½	1¼	1¾	1½	1½	1¾	1¾	2	2¼	2½	2¾
		Thread Per Inch	6	6	5	5	5	4	4	4	4	4	3	3	3	3	3
		Pitch(in)	0.18	0.18	0.18	0.2	0.2	0.25	0.25	0.25	0.33	0.33	0.33	0.33	0.33	0.33	0.33
		Turns to open	13	16	18	24	34	36	44	52	44	53	58	64	75	88	94
		Torque (N.m)	17	18	28	37	81	115	194	281	353	470	592	815	1305	1657	2100
A334	300	Stem Thread O.D	¾	¾	7/8	1	1¼	1¾	1½	1½	1¾	1¾	2	2½	2¾	2¾	2¾
		Thread Per Inch	6	6	6	5	5	4	4	4	3	3	3	3	3	3	2
		Pitch(in)	0.18	0.18	0.18	0.2	0.25	0.25	0.25	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.5
		Turns to open	14	16	18	24	26	36	44	40	45	53	58	64	76	88	94
		Torque (N.m)	25	28	35	57	171	315	492	721	890	1123	1560	1915	3054	4370	6120
A434	600	Stem Thread O.D	¾	7/8	1	1½	1½	1¾	1¾	2	2¼	2¾	2½	2¾	3	-	-
		Thread Per Inch	6	5	5	5	4	3	3	3	3	3	3	3	2	-	-
		Pitch(in)	0.18	0.18	0.2	0.2	0.25	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.5	-	-
		Turns to open	14	16	18	24	27	27	33	40	45	53	58	64	51	-	-
		Torque (N.m)	38	51	77	144	430	705	1134	1650	2314	3150	3300	3251	7528	-	-
A634	900	Stem Thread O.D	1	1½	1½	1¼	1¾	1¾	2½	2¼	-	-	-	-	-	-	-
		Thread Per Inch	5	5	5	4	3	3	3	3	-	-	-	-	-	-	-
		Pitch(in)	0.2	0.2	0.2	0.25	0.33	0.33	0.33	0.33	-	-	-	-	-	-	-
		Turns to open	14	16	18	21	22	28	34	40	-	-	-	-	-	-	-
		Torque (N.m)	87	602	114	173	629	1154	1892	2850	-	-	-	-	-	-	-
A734	1500	Stem Thread O.D	1	1½	1¼	1¾	1¾	2½	2½	2¾	-	-	-	-	-	-	-
		Thread Per Inch	5	5	4	4	3	3	3	3	-	-	-	-	-	-	-
		Pitch(in)	0.2	0.2	0.25	0.25	0.33	0.33	0.33	0.33	-	-	-	-	-	-	-
		Turns to open	14	16	17	22	22	28	34	40	-	-	-	-	-	-	-
		Torque (N.m)	128	189	146	382	1109	2221	3576	4850	-	-	-	-	-	-	-
A834	2500	Stem Thread O.D	1	1½	1¼	1¾	1¾	2¾	2¾	3¼	-	-	-	-	-	-	-
		Thread Per Inch	5	5	4	4	3	3	2	2	-	-	-	-	-	-	-
		Pitch(in)	0.2	0.2	0.2	0.25	0.25	0.33	0.5	0.5	-	-	-	-	-	-	-
		Turns to open	15	17	17	22	28	28	34	40	-	-	-	-	-	-	-
		Torque (N.m)	183	247	309	621	1509	3218	6248	8992	-	-	-	-	-	-	-

Stem Data & Operating Torques for Cast Steel Globe Valve

Class150 – 2500 LB

MODEL	CLASS	ITEM	VALVE SIZE (In)									
			2	2½	3	4	6	8	10	12	14	16
G234	150	Stem Thread O.D	¾	7/8	1	1½	1¼	1⅝	1½	1⅝	2⅛	2¼
		Thread Per Inch	5	5	5	5	4	4	4	4	3	3
		Pitch(in)	0.18	0.18	0.2	0.2	0.25	0.25	0.25	0.33	0.33	0.33
		Turns to open	4	7	5	8	7	9	10	7	7	6
		Torque (N.m)	51	72	93	172	262	356	680	1320	1602	2263
G334	300	Stem Thread O.D	¾	7/8	1	1½	1⅝	1½	1⅝	1¾	-	-
		Thread Per Inch	5	5	5	5	4	4	3	3	-	-
		Pitch(in)	0.2	0.2	0.2	0.2	0.25	0.25	0.33	0.33	-	-
		Turns to open	4	8	7	8	7	9	9	9	-	-
		Torque (N.m)	68	91	130	231	793	1415	2370	3405	-	-
G434	600	Stem Thread O.D	7/8	1	1½	1½	1⅝	1¾	2	2⅛	-	-
		Thread Per Inch	5	5	5	4	3	3	3	3	-	-
		Pitch(in)	0.2	0.2	0.2	0.25	0.33	0.33	0.33	0.33	-	-
		Turns to open	8	8	8	8	9	9	9	9	-	-
		Torque (N.m)	156	267	342	661	1680	2983	4920	6853	-	-
G634	900	Stem Thread O.D	1⅝	1¼	1¼	1⅝	1¾	2	2¾	3	-	-
		Thread Per Inch	5	4	4	4	3	3	2	2	-	-
		Pitch(in)	0.2	0.25	0.25	0.25	0.33	0.33	0.5	0.5	-	-
		Turns to open	8	7	7	8	9	9	8	8	-	-
		Torque (N.m)	312	454	579	1125	1920	3723	7124	11144	-	-
G734	1500	Stem Thread O.D	1⅝	1¼	1⅝	1½	2	2¼	-	-	-	-
		Thread Per Inch	5	4	4	4	3	3	-	-	-	-
		Pitch(in)	0.2	0.25	0.25	0.25	0.33	0.33	-	-	-	-
		Turns to open	8	7	7	8	9	9	-	-	-	-
		Torque (N.m)	313	454	579	1204	1986	3723	-	-	-	-
G834	2500	Stem Thread O.D	1¼	1½	1⅝	1¾	2	2½	-	-	-	-
		Thread Per Inch	4	4	3	3	3	3	-	-	-	-
		Pitch(in)	0.25	0.25	0.33	0.33	0.33	0.33	-	-	-	-
		Turns to open	7	7	6	6	9	9	-	-	-	-
		Torque (N.m)	550	902	1173	2243	7126	10374	-	-	-	-

Pressure-Temperature Ratings For Flanged and Butt Weld Ends Valves

ASTM A216 GR.WCB								ASTM A352 GR.LCB							
Temperature		Class / PSI						Temperature		Class / PSI					
		150	300	600	900	1500	2500			150	300	600	900	1500	2500
-20-100	-29-38	285	740	1480	2220	3705	6170	-20-100	-29-38	265	695	1390	2085	3470	5785
200	93	260	675	1350	2025	3375	5625	200	93	250	655	1315	1970	3280	5470
300	149	230	655	1315	1970	3280	5470	300	149	230	640	1275	1915	3190	5315
400	204	200	635	1270	1900	3170	5280	400	204	200	620	1235	1850	3085	5145
500	260	170	600	1200	1795	2995	4990	500	260	170	585	1165	1745	2910	4850
600	316	140	550	1095	1640	2735	4560	600	316	140	535	1065	1600	2665	4440
650	343	125	535	1075	1610	2685	4475	650	343	125	525	1045	1570	2615	4355
700	371	110	535	1065	1600	2665	4440	700	371	110	520	1035	1555	2590	4320
750	399	95	505	1010	1510	2520	4200	750	399	95	475	945	1420	2365	3945
800	427	80	410	825	1235	2060	3430	800	427	80	390	780	1175	1955	3260
850	454	65	270	535	805	1340	2230	850	454	65	270	535	805	1340	2230
900	482	50	170	345	515	860	1430	900	482	50	170	345	515	860	1430
950	510	35	105	205	310	515	860	950	510	35	105	205	310	515	860
1000	538	20	50	105	155	260	430	1000	538	20	50	105	155	260	430

Note: A216 WCB not recommended for continuous working temperature at 800 (427) applications.

WARNING: The operating temperature for A352 LCB cannot exceed 650 (343)..

*The maximum operating temperature can not exceed 1,100 (593).

Pressure-Temperature Ratings For Flanged and Butt Weld Ends Valves

ASTM A217 GR.WC6								ASTM A217 GR.WC9							
Temperature		Class / PSI						Temperature		Class / PSI					
		150	300	600	900	1500	2500			150	300	600	900	1500	2500
-20-100	-29-38	290	750	1500	2250	3750	6250	-20-100	-29-38	290	750	1500	2250	3750	6250
200	93	260	750	1500	2250	3750	6250	200	93	260	750	1500	2250	3750	6250
300	149	230	720	1445	2165	3610	6015	300	149	230	730	1455	2185	3640	6070
400	204	200	695	1385	2080	3465	5775	400	204	200	705	1410	2115	3530	5880
500	260	170	665	1330	1995	3325	5540	500	260	170	665	1330	1995	3325	5540
600	316	140	605	1210	1815	3025	5040	600	316	140	605	1210	1815	3025	5040
650	343	125	590	1175	1765	2940	4905	650	343	125	590	1175	1765	2940	4905
700	371	110	570	1135	1705	2840	4730	700	371	110	570	1135	1705	2840	4730
750	399	95	530	1065	1595	2660	4430	750	399	95	530	1065	1595	2660	4430
800	427	80	510	1015	1525	2540	4230	800	427	80	510	1015	1525	2540	4230
850	454	65	485	975	1460	2435	4060	850	454	65	485	975	1460	2435	4060
900	482	50	450	900	1350	2245	3745	900	482	50	450	900	1350	2245	3745
950	510	35	320	640	955	1595	2655	950	510	35	375	755	1130	1885	3145
1000	538	20	215	430	650	1080	1800	1000	538	20	260	520	780	1305	2170

Note: For flanged temperature at 1,000 (538), use weld ends valves.
The maximum operating temperature can not exceed 1,100 (593).

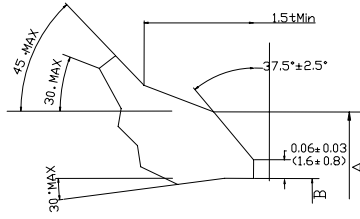
Pressure-Temperature Ratings For Flanged and Butt Weld Ends Valves

ASTM A351 GR.CF8M								ASTM A217 GR. C5							
Temperature		Class / PSI						Temperature		Class / PSI					
		150	300	600	900	1500	2500			150	300	600	900	1500	2500
-20-100	-29-38	275	720	1440	2160	3600	6000	-20-100	-29-38	290	750	1500	2250	3750	6250
200	93	235	620	1240	1860	3095	5160	200	93	260	745	1490	2235	3725	6205
300	149	215	560	1120	1680	2795	4660	300	149	230	715	1430	2150	3580	5965
400	204	195	515	1025	1540	2570	4280	400	204	200	705	1410	2115	3530	5880
500	260	170	480	955	1435	2390	3980	500	260	170	665	1330	1995	3325	5340
600	316	140	450	900	1355	2255	3760	600	316	140	605	1210	1815	3075	5040
650	343	125	445	890	1330	2220	3700	650	343	125	590	1175	1765	2940	4905
700	371	110	430	870	1305	2170	3620	700	371	110	570	1135	1705	2840	4730
750	399	95	425	855	1280	2135	3560	750	399	95	530	1055	1585	2640	4400
800	427	80	420	845	1265	2110	3520	800	427	80	510	1015	1525	2540	4230
850	454	65	420	835	1255	2090	3480	850	454	65	485	965	1450	2415	4030
900	482	50	415	830	1245	2075	3460	900	482	50	370	740	1110	1850	3085
950	510	75	385	775	1160	1930	3220	950	510	35	275	550	825	1370	2285
1000	538	20	350	700	1050	1750	2915	1000	538	20	200	400	595	995	1655
1050	566	20	345	685	1030	1720	2865	1050	566	20	145	290	430	720	1240
1100	566	20	305	610	915	1525	2545	1100	566	20	100	200	300	495	830
1150	621	20	235	475	710	1185	1970	1150	621	20	60	125	185	310	515
1200	649	20	185	370	555	925	1545	1200	649	15	35	70	105	170	285
1250	677	20	145	295	440	735	1230	-	-	-	-	-	-	-	-
1300	704	20	115	235	350	585	970	-	-	-	-	-	-	-	-
1350	732	20	95	190	290	480	800	-	-	-	-	-	-	-	-
1400	760	20	75	150	225	380	630	-	-	-	-	-	-	-	-
1450	788	20	115	115	175	290	485	-	-	-	-	-	-	-	-
1500	816	20	85	85	125	705	345	-	-	-	-	-	-	-	-

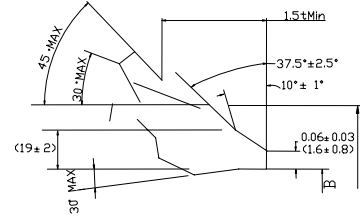
Note: For flange temperature at 1,000 (538), use weld ends valves.

For temperature over 1,000 (538), use valve with carbon Content exceed 0.04%.

Dimension of Butt Weld Ends to ANSI B16.25



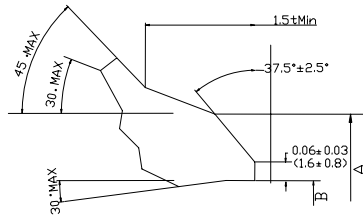
Pipe wall thickness at 0.88 in (22.2mm) or smaller



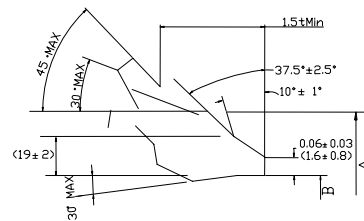
Pipe wall thickness over 0.88 in(22.2mm)

Nominal Pipe Size		Schedule Number or wall	A				B		C		t	
			Pipe Outside Diameter		Valve Outside Diameter		Nominal Inside Diameter		Machined Inside Diameter		Nominal Wall Thickness	
In	mm		In	mm	In	mm	In	mm	In	mm	In	mm
2½	65	40	2.88	43.0	2.96	75	2.469	62.7	2.479	62.95	0.203	5.15
		80					2.323	59.0	2.351	59.70	0.276	7.00
		160					2.125	54.0	2.178	55.30	0.375	9.55
		XXS					1.771	45.0	1.868	47.45	0.552	14.00
3	80	40	3.50	88.9	3.59	91	3.068	78.0	3.081	78.25	0.216	5.50
		80					2.900	74.0	2.934	74.50	0.300	7.60
		160					2.624	67.0	2.629	68.40	0.438	11.15
		XXS					2.300	58.0	2.409	61.20	0.600	15.25
4	100	40	4.50	114.3	4.62	117	4.026	102.0	4.044	102.70	0.237	6.00
		80					3.826	97.0	3.869	98.25	0.337	8.55
		120					3.624	92.0	3.692	93.80	0.438	11.15
		160					3.438	87.0	3.530	89.65	0.531	13.5
		XXS					3.152	80.0	3.279	83.30	0.674	17.10
5	125	40	5.56	141.3	5.69	144	5.047	128.0	5.070	128.80	0.258	6.55
		80					4.813	122.0	4.866	123.60	0.375	9.55
		120					4.563	116.0	4.647	118.05	0.500	12.70
		160					4.313	110.0	4.428	112.45	0.625	15.90
		XXS					4.063	103.0	4.209	106.90	0.750	19.05
6	150	40	6.62	168.3	6.78	172	6.065	154.0	6.094	154.80	0.280	7.10
		80					5.761	146.0	5.828	148.05	0.432	10.95
		120					5.501	140.0	5.600	142.25	0.562	14.25
		160					5.187	132.0	5.326	135.30	0.719	18.25
		XXS					4.897	124.0	5.072	128.85	0.864	21.95
8	200	40	8.62	219.1	8.78	223	7.981	203.0	8.020	203.70	0.322	8.20
		60					7.813	198.0	7.873	199.95	0.406	10.30
		80					7.625	194.0	7.709	195.80	0.500	12.70
		100					7.437	189.0	7.544	191.60	0.594	15.10
		120					7.187	183.0	7.326	186.10	0.719	18.25
		140					7.001	178.0	7.163	181.95	0.812	20.60
		160					6.875	175.0	7.053	179.15	0.875	22.25
		XXS					6.813	173.0	6.998	177.75	0.906	23.00
10	250	40	10.75	273.0	10.94	278	10.020	255.0	10.070	255.80	0.365	9.25
		60					9.750	248.0	9.834	249.80	0.500	12.70
		80					9.562	243.0	9.670	245.6	0.594	15.10
		100					9.312	237.0	9.451	240.05	0.719	18.25
		120					9.062	230.0	9.232	234.50	0.844	21.45
		140					8.750	222.0	8.959	227.55	1.000	25.40
12	300	40	12.75	323.8	12.97	329	12.000	305.0	12.053	306.15	0.375	9.55
		60					11.938	303.0	11.999	304.75	0.406	10.30
		XS					11.750	298.0	11.834	300.60	0.500	12.70
		80					11.626	295.0	11.725	297.80	0.562	14.25
		100					11.374	289.0	11.505	292.25	0.688	17.50
		120					11.062	281.0	11.232	285.30	0.844	21.45
		140					10.750	273.0	10.959	278.35	1.000	25.40
		160					10.500	267.0	10.740	272.80	1.125	28.60
							10.126	257.0	10.413	264.50	1.312	33.30

Dimension of Butt Weld Ends to ANSI B16.25



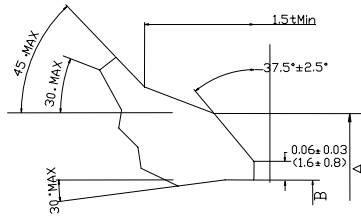
Pipe wall thickness at 0.88 in (22.2mm) or smaller



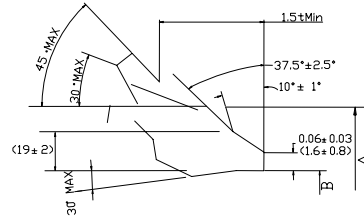
Pipe wall thickness over 0.88 in (22.2mm)

Nominal Pipe Size		Schedule Number or wall	A				B		C		t	
			Pipe Outside Diameter		Valve Outside Diameter		Nominal Inside Diameter		Machined Inside Diameter		Nominal Wall Thickness	
In	mm		In	mm	In	mm	In	mm	In	mm	In	mm
14	350	STD					13.250	337.0	13.303	337.90	0.375	9.55
		40					13.124	333.0	13.192	335.10	0.438	11.15
		XS					13.000	330.0	13.084	332.35	0.500	12.70
		60					12.812	325.0	12.920	328.15	0.594	15.10
		80	14.00	355.6	14.25	362	12.500	318.0	12.646	321.20	0.750	19.05
		100					12.124	308.0	12.318	321.90	0.938	23.85
		120					11.812	300.0	12.044	305.90	1.094	27.80
		140					11.500	292.0	11.771	299.00	1.250	31.75
160					11.188	284.0	11.498	292.05	1.406	35.70		
16	400	STD					15.250	387.0	15.303	388.70	0.375	9.55
		40					15.000	381.0	15.084	383.15	0.500	12.70
		60					14.688	373.0	14.811	376.20	0.656	16.65
		80	16.00	406.4	16.25	413	14.312	364.0	14.482	367.85	0.844	21.45
		100					13.938	354.0	14.155	359.55	1.031	26.20
		120					13.562	344.0	13.826	351.20	1.219	30.95
		140					13.124	333.0	13.442	341.45	1.438	36.55
		160					12.812	325.0	13.170	334.50	1.594	40.50
18	450	STD					17.250	438.0	17.303	439.50	0.375	9.55
		XS					17.000	432.0	17.084	433.95	0.500	12.70
		40					16.878	429.0	16.975	431.15	0.562	14.25
		60	18.00	457.1	18.28	464	16.500	419.0	16.646	422.80	0.750	19.05
		80		2			16.124	410.0	16.318	414.50	0.938	23.85
		100					15.688	398.0	15.936	404.75	1.156	29.35
		120					15.250	387.0	15.553	395.05	1.375	34.95
		140					14.876	378.0	15.225	386.70	1.562	39.65
160					14.438	367.0	14.842	377.00	1.781	45.25		
20	500	STD					19.250	489.0	19.303	490.30	0.375	9.55
		XS					19.000	483.0	19.084	484.75	0.500	12.70
		40					18.812	478.0	18.920	480.55	0.594	15.10
		60	20.00	508.0	20.31	516	18.376	467.0	18.538	470.85	0.812	20.60
		80					17.938	456.0	18.155	461.15	1.031	26.20
		100					17.438	443.0	17.717	450.00	1.281	32.55
		120					17.000	432.0	17.334	440.30	1.500	38.10
		140					16.500	419.0	16.896	429.15	1.750	44.45
160					16.062	408.0	16.513	419.45	1.969	50.00		
22	550	STD					21.250	540.0	21.303	541.10	0.375	9.65
		XS					21.000	533.0	21.084	535.55	0.500	12.70
		60	22.00	558.8	22.34	567	20.250	514.0	20.428	518.85	0.875	22.25
		80					19.750	502	19.990	507.75	1.125	28.60
		100					19.250	489.0	19.553	496.65	1.375	34.95
		120					18.750	476.0	19.115	485.50	1.625	41.30
		140					18.250	464.0	18.678	474.40	1.875	47.65
		160					17.750	451.0	18.240	463.30	2.125	54.00
24	600	STD					23.250	591.0	23.303	591.90	0.375	9.55
		XS					23.000	584.0	23.084	586.35	0.500	12.70
		30					22.876	581.0	22.975	583.55	0.562	14.25
		40	24.00	609.6	24.38	619	22.624	575.0	22.755	578.00	0.688	17.50
		60					22.062	560.0	22.263	565.50	0.969	24.60
		80					21.562	548.0	21.826	554.40	1.219	30.95
		100					20.938	532.0	21.280	540.50	1.531	38.90
		120					20.376	518.0	20.788	528.00	1.812	46.00
140					19.876	505.0	20.350	516.90	2.062	52.36		
160					19.312	491.0	19.857	504.35	2.344	59.55		

Dimension of Butt Weld Ends to ANSI B16.25



Pipe wall thickness at 0.88 in (22.2mm) or smaller



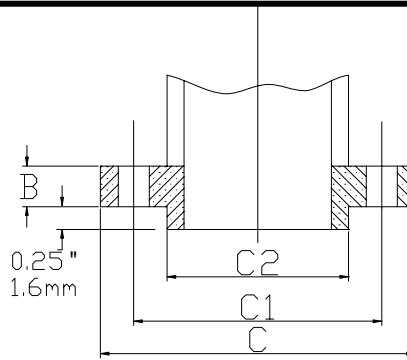
Pipe wall thickness over 0.88 in (22.2mm)

Nominal Pipe Size		Schedule Number or wal	A				B		C		†	
			Pipe Outside Diameter		Valve Outside Diameter		Nominal Inside Diameter		Machined Inside Diameter		Nominal Wall Thickness	
In	mm		In	mm	In	mm	In	mm	In	mm	In	mm
26	650	10	26.00	66.4	26.38	670	25.376	645.0	25.413	645.50	0.312	7.90
		20	26.00	66.4	26.38	670	25.000	635.0	25.084	637.15	0.500	12.70
28	700	10	28.00	711.2	28.38	721	27.376	695.0	27.413	696.30	0.312	7.90
		20	28.00	711.2	28.38	721	27.000	686.0	27.084	687.95	0.500	12.70
		30	28.00	711.2	28.38	721	26.750	679.0	26.865	682.35	0.625	15.90
30	750	10	30.00	762.0	30.38	772	29.376	746.0	29.413	747.10	0.312	7.90
		20	30.00	762.0	30.38	772	29.000	737.0	29.084	738.75	0.500	12.70
		30	30.00	762.0	30.38	772	28.750	730.0	28.865	733.15	0.625	15.90
32	800	10	32.00	812.8	32.50	825	31.376	797.0	31.413	797.90	0.312	7.90
		20	32.00	812.8	32.50	825	31.000	787.0	31.084	789.55	0.500	12.70
		30	32.00	812.8	32.50	825	30.750	771.0	30.865	783.95	0.625	15.90
		40	32.00	812.8	32.50	825	30.624	778.0	30.755	781.20	0.688	17.50
34	850	10	34.00	863.6	34.50	876	33.376	848.0	33.413	848.70	0.312	7.90
		20	34.00	863.6	34.50	876	33.000	838.0	33.084	840.35	0.500	12.70
		30	34.00	863.6	34.50	876	32.750	832.0	32.865	833.75	0.625	15.90
		40	34.00	863.6	34.50	876	32.624	829.0	32.755	832.00	0.688	17.50
36	900	10	36.00	914.4	36.50	927	35.376	899.0	35.413	899.50	0.312	7.90
		20	36.00	914.4	36.50	927	35.000	889.0	35.084	891.15	0.500	12.70
		30	36.00	914.4	36.50	927	34.750	883.0	34.865	885.55	0.625	15.90
		40	36.00	914.4	36.50	927	34.500	876.0	34.646	880.00	0.750	19.05

*STD – Standard Wall Thickness
 XS – Extra Strong Wall Thickness
 XXS – Double Extra Strong Wall Thickness

Tolerance on dimension:
 2 1/2" - 4" : -0.03 ~ +0.09
 6" - 36" : -0.03 ~ +0.16

Raised Face Steel Flange Dimensions



Class 150 — 300(RF)

Class 150 (RF)

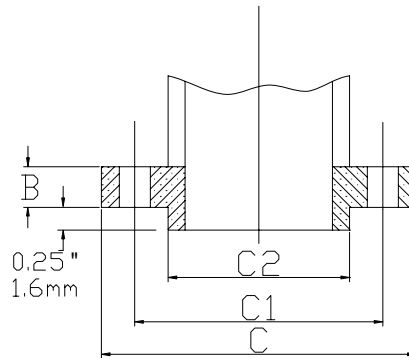
Nominal Size		C		C1		C2		B		Number of Bolt	Diameter of Bolt
in	mm	Flange OD		Bolt Circle Diam		Raised Face Diam		Thickness Face Diam			
in	mm	in	mm	in	mm	in	mm	in	mm		
2	50	6.00	152	4.75	120.5	3.62	92	0.62	16	4	5/8
2 1/2	65	7.00	178	5.50	139.5	4.12	105	0.69	18	4	5/8
3	80	7.50	190	6.00	152.5	5.00	127	0.75	19	4	5/8
4	100	9.00	229	7.50	190.5	6.19	157	0.94	24	8	5/8
6	150	11.00	279	9.50	241.5	8.50	216	1.00	26	8	3/4
8	200	13.50	343	11.75	298.5	10.62	270	1.12	29	8	3/4
10	250	16.00	406	14.25	362	12.75	324	1.19	31	12	7/8
12	300	19.00	483	17.00	432	15.00	381	1.25	32	12	7/8
14	350	21.00	533	18.75	476	16.25	413	1.38	35	12	1
16	400	23.50	597	21.25	540	18.50	470	1.44	37	16	1
18	450	25.00	635	22.75	578	21.00	533	1.56	40	16	1 1/8
20	500	27.50	699	25.00	635	23.00	584	1.69	43	20	1 1/8
24	600	32.00	813	29.50	749.5	27.25	692	1.88	48	20	1 1/4
28	700	36.50	927	34.00	863.5	31.50	800	2.81	72	28	1 1/4
30	750	38.75	984	36.00	914.5	33.75	857	2.94	75	28	1 1/4
32	800	41.75	1060	38.50	978	36.00	914	3.19	81	28	1 1/2
36	900	46.00	1168	42.75	1086	40.25	1022	3.56	91	32	1 1/2

Class 300(RF)

Nominal Size		C		C1		C2		B		Number of Bolt	Diameter of Bolt
in	mm	Flange OD		Bolt Circle Diam		Raised Face Diam		Thickness Face Diam			
in	mm	in	mm	in	mm	in	mm	in	mm		
2	50	6.50	165	5.00	127	3.62	92	0.88	23	8	5/8
2 1/2	65	7.50	190	5.88	179	4.12	105	1.00	26	8	3/4
3	80	8.25	210	6.62	168.5	5.00	127	1.12	29	8	3/4
4	100	10.00	254	7.88	200	6.19	157	1.25	32	8	3/4
6	150	12.50	318	10.62	270	8.50	216	1.44	37	12	3/4
8	200	15.00	381	13.00	330	10.62	270	1.62	42	12	7/8
10	250	17.50	445	15.25	387.5	12.75	324	1.88	48	16	1
12	300	20.50	521	17.75	451	15.00	381	2.00	51	16	1 1/8
14	350	23.00	584	20.25	514.5	16.25	413	2.12	54	20	1 1/8
16	400	25.50	648	22.50	571.5	18.50	470	2.25	58	20	1 1/4
18	450	28.00	711	24.75	628.5	21.00	533	2.38	61	24	1 1/4
20	500	30.50	775	27.00	686	23.00	584	2.50	64	24	1 1/4
24	600	36.00	914	32.00	813	27.25	692	2.75	70	24	1 1/2
28	700	40.75	1035	37.00	940	31.50	800	3.38	86	28	1 5/8
30	750	43.00	1092	39.25	997	33.75	857	3.62	92	28	1 3/4
36	900	50.00	1270	46	1168	40.25	1022	4.12	184.6	32	2

*2" - 24" Flange diameter meets ANSI B16.5
 28" - 36" meets ANSI B16.47A (MSS SP-44)

Raised Face Steel Flange Dimensions



Class 600 — 2500(RF)

Class 600 (RF)

Nominal Size		C		C1		C2		B		Number of Bolt	Diameter of Bolt
In	mm	In	mm	In	mm	In	mm	In	mm		
2	50	6.00	165	5.00	127	3.62	92	1.00	26	8	5/8
2½	65	7.50	190	5.88	149	4.12	105	1.12	29	8	¾
3	80	8.25	210	6.62	168	5.00	127	1.25	32	8	¾
4	100	10.75	273	8.50	216	6.19	157	1.50	38	12	7/8
6	150	14.00	356	11.50	292	8.50	216	1.88	48	12	1
8	200	16.50	419	13.75	349	10.62	270	2.19	56	12	1 1/8
10	250	20.00	508	17.00	432	12.75	324	2.50	64	16	1 1/4
12	300	22.00	559	19.25	489	15.0	381	2.62	67	20	1 1/4
14	350	23.70	603	20.75	527	16.25	413	2.75	70	20	1 3/8
16	400	27.00	686	23.75	603	18.50	470	3.00	77	20	1 1/2
18	450	29.25	743	25.75	654	21.00	533	3.25	83	20	1 5/8
20	500	32.00	813	28.50	724	23.00	584	3.50	89	24	1 5/8
24	600	37.00	940	33.00	838	27.25	692	4.00	102	24	1 7/8

Class 900 (RF)

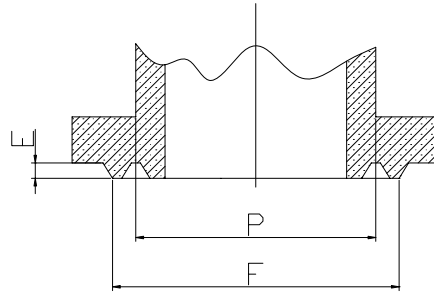
2	50	8.50	216	6.50	165.1	3.62	92	1.50	38.5	8	7/8
2½	65	9.62	244	7.50	190.5	4.12	105	1.62	41.5	8	1
3	80	9.50	241	7.50	190.5	5.00	127	1.50	38.5	8	7/8
4	100	11.50	292	9.25	234.9	6.19	157	1.75	44.5	8	1 1/8
6	150	15.00	381	12.50	317.5	8.50	216	2.19	56.0	12	1 1/8
8	200	18.50	470	15.50	393.7	10.62	270	2.50	63.5	12	1 3/8
10	250	21.50	545	18.50	469.9	12.75	324	2.75	70.0	16	1 3/8
12	300	24.00	610	21.00	533.4	15.00	381	3.12	79.5	20	1 3/8
14	350	25.25	640	22.00	558.8	16.25	413	3.38	86.0	20	1 1/2
16	400	27.75	705	24.25	615.9	18.50	470	3.50	89.0	20	1 5/8
18	450	31.00	785	27.00	685.8	21.00	533	4.00	102.0	20	1 7/8
20	500	33.75	855	29.50	749.3	23.00	584	4.25	108.0	20	2
24	600	41.00	1040	35.50	901.7	27.25	692	5.50	140.0	20	2 1/2

Class 1500 (RF)

2	50	8.50	216	6.50	165.1	3.62	92	1.50	38.5	8	1
2½	65	9.62	244	7.50	190.5	4.12	105	1.62	41.5	8	1 1/8
3	80	10.50	267	8.00	203.2	5.00	127	1.88	48.5	8	1 1/4
4	100	12.25	311	9.50	241.3	6.19	157	2.12	54.0	8	1 3/8
6	150	15.50	394	12.50	317.5	8.50	216	3.25	83.0	12	1 1/2
8	200	19.00	483	15.50	393.7	10.62	270	3.62	92.9	12	1 3/4
10	250	23.00	585	19.00	481.4	12.75	324	4.25	108.0	12	2
12	300	26.50	675	22.50	571.5	15.00	381	4.88	124.0	16	2 1/8
14	350	29.50	750	25.00	635.0	16.25	413	5.25	133.5	16	2 3/8
16	400	32.50	825	27.75	701.7	18.50	470	5.75	146.5	16	2 5/8
18	450	36.00	915	30.50	774.5	21.00	533	6.38	162.0	16	2 7/8
20	500	38.75	985	32.75	833.0	23.00	584	7.00	178.0	16	3 1/8
24	600	46.00	1170	39.00	990.6	27.25	692	8.00	203.5	16	3 3/8
2	50	9.25	235	6.75	171.5	3.62	92	2.00	51.0	8	1
2½	65	10.50	267	7.75	196.5	4.12	105	2.25	57.5	8	1 1/8
3	80	12.00	305	9.00	228.6	5.00	127	2.62	67.0	8	1 1/4
4	100	14.00	356	10.75	273.0	6.19	157	3.00	76.5	8	1 1/2
6	150	19.00	483	14.50	368.3	8.50	216	4.25	108.0	8	2
8	200	21.75	550	17.25	433.0	10.62	270	5.00	127.0	12	2
10	250	26.50	675	21.50	541.3	12.75	324	6.50	165.5	12	2 1/2
12	300	30.00	760	24.38	615.8	15.00	381	7.25	184.5	12	2 3/4

*2" - 24" Flange diameter meets ANSI B16.5
28" - 36" meets ANSI B16.47A (MSS SP-44)

Ring Joint Steel Flange Dimensions



Class 150 — 600(RJT)

Class 150 (RJT)

Nominal Size		F		P		E		K		R		Ring No.
In	mm	Facing Diam		Pitch Diam		Depth Groove		Width of Groove		Groove Fillet Radius		
In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	
2	50	4.00	102	3.250	82.55	0.250	6.35	0.344	8.74	0.03	0.8	R22
2½	65	4.75	121	4.000	101.60	0.250	6.35	0.344	8.74	0.03	0.8	R25
3	80	5.25	133	4.500	114.30	0.250	6.35	0.344	8.74	0.03	0.8	R29
4	100	6.75	171	5.875	149.22	0.250	6.35	0.344	8.74	0.03	0.8	R36
6	150	8.62	219	7.625	193.68	0.250	6.35	0.344	8.74	0.03	0.8	R43
8	200	10.75	273	9.750	247.65	0.250	6.35	0.344	8.74	0.03	0.8	R48
10	250	13.00	330	12.000	304.80	0.250	6.35	0.344	8.74	0.03	0.8	R52
12	300	16.00	406	15.000	381.00	0.250	6.35	0.344	8.74	0.03	0.8	R56
14	350	16.75	425	15.625	396.88	0.250	6.35	0.344	8.74	0.03	0.8	R59
16	400	19.00	483	17.875	454.02	0.250	6.35	0.344	8.74	0.03	0.8	R64
18	450	21.50	546	20.375	517.52	0.250	6.35	0.344	8.74	0.03	0.8	R68
20	500	23.50	597	22.000	558.80	0.250	6.35	0.344	8.74	0.03	0.8	R72
24	600	28.00	711	26.500	673.10	0.250	6.35	0.344	8.74	0.03	0.8	R76
28	700	33.88	861	31.500	800.10	0.500	12.7	0.781	19.844	0.06	1.5	R94
30	750	36.12	917	33.750	857.25	0.500	12.7	0.781	19.844	0.06	1.5	R95
32	800	38.75	984	36.000	914.40	0.562	14.3	0.906	23.019	0.09	2.3	R96
36	900	40.75	1035	40.250	1022.35	0.562	14.3	0.906	23.019	0.09	2.3	R98

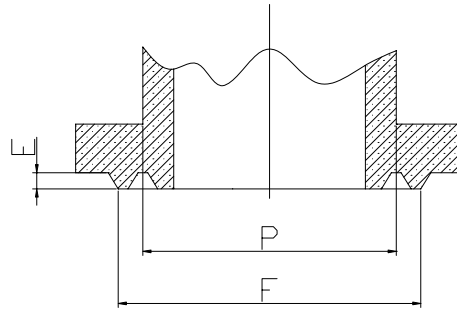
Class 300 (RJT)

2	50	4.25	108	3.250	82.55	0.312	7.92	0.469	11.91	0.03	0.8	R26
2½	65	5.00	127	4.000	101.60	0.312	7.92	0.469	11.91	0.03	0.8	R26
3	80	5.75	146	4.875	123.82	0.312	7.92	0.469	11.91	0.03	0.8	R31
4	100	6.88	175	5.875	149.22	0.312	7.92	0.469	11.91	0.03	0.8	R37
6	150	9.50	214	8.312	211.13	0.312	7.92	0.469	11.91	0.03	0.8	R45
8	200	11.88	302	10.625	269.88	0.312	7.92	0.469	11.91	0.03	0.8	R49
10	250	14.00	356	12.750	323.85	0.312	7.92	0.469	11.91	0.03	0.8	R53
12	300	16.25	413	15.000	381.00	0.312	7.92	0.469	11.91	0.03	0.8	R57
14	350	18.00	457	16.500	419.10	0.312	7.92	0.469	11.91	0.03	0.8	R61
16	400	20.00	508	18.500	469.90	0.312	7.92	0.469	11.91	0.03	0.8	R65
18	450	22.62	575	21.000	533.40	0.312	7.92	0.469	11.91	0.03	0.8	R69
20	500	25.00	635	23.000	584.20	0.375	9.52	0.531	13.49	0.06	1.5	R73
24	600	29.50	749	27.250	692.15	0.438	11.13	0.656	16.66	0.06	1.5	R77

Class 600 (RJT)

2	50	4.25	108	3.250	82.55	0.312	7.92	0.469	11.91	0.03	0.8	R26
2½	65	5.00	127	4.000	101.60	0.312	7.92	0.469	11.91	0.03	0.8	R26
3	80	5.75	146	4.875	123.82	0.312	7.92	0.469	11.91	0.03	0.8	R31
4	100	6.88	175	5.875	149.22	0.312	7.92	0.469	11.91	0.03	0.8	R37
6	150	9.50	214	8.312	211.13	0.312	7.92	0.469	11.91	0.03	0.8	R45
8	200	11.88	302	10.625	269.88	0.312	7.92	0.469	11.91	0.03	0.8	R49
10	250	14.00	356	12.750	323.85	0.312	7.92	0.469	11.91	0.03	0.8	R53
12	300	16.25	413	15.000	381.00	0.312	7.92	0.469	11.91	0.03	0.8	R57
14	350	18.00	457	16.500	419.10	0.312	7.92	0.469	11.91	0.03	0.8	R61
16	400	20.00	508	18.500	469.90	0.312	7.92	0.469	11.91	0.03	0.8	R65
18	450	22.62	575	21.000	533.40	0.312	7.92	0.469	11.91	0.03	0.8	R69
20	500	25.00	635	23.000	584.20	0.375	9.52	0.531	13.49	0.06	1.5	R73
24	600	29.50	749	27.250	692.15	0.438	11.13	0.656	16.66	0.06	1.5	R77

Ring Joint Steel Flange Dimensions



Class 900 — 2500(RJT)

Class 900 (RJT)

Nominal Size		F		P		E		K		R		Ring No.
In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	
2½	65	5.38	137	4.250	107.95	0.312	7.92	0.469	11.91	0.03	0.8	R24
3	80	6.12	156	4.875	123.82	0.312	7.92	0.469	11.91	0.03	0.8	R27
4	100	7.12	181	5.875	149.22	0.312	7.92	0.469	11.91	0.03	0.8	R31
6	150	9.50	241	8.312	211.12	0.312	7.92	0.469	11.91	0.03	0.8	R37
8	200	12.12	308	10.625	269.88	0.312	7.92	0.469	11.91	0.03	0.8	R45
10	250	14.25	362	12.750	323.85	0.312	7.92	0.469	11.91	0.03	0.8	R49
12	300	16.50	419	15.000	381.00	0.312	7.92	0.469	11.91	0.03	0.8	R53
14	350	18.38	467	16.500	419.10	0.438	11.13	0.656	16.66	0.06	1.5	R57
16	400	20.62	524	18.500	469.90	0.438	11.13	0.656	16.66	0.06	1.5	R62
18	450	23.38	594	21.000	533.40	0.500	12.70	0.781	19.84	0.06	1.5	R66
20	500	25.50	648	23.000	584.20	0.500	12.70	0.781	19.84	0.06	1.5	R70
24	600	30.38	772	27.250	692.15	0.625	15.88	1.062	26.97	0.06	1.5	R74
										0.09	2.3	R78

Class 1500 (RJT)

2	50	4.88	124	3.750	95.25	0.312	7.92	0.469	11.91	0.03	0.8	R27
2½	65	5.38	137	4.250	107.95	0.312	7.92	0.469	11.91	0.03	0.8	R35
3	80	6.62	168	4.875	123.82	0.312	7.92	0.469	11.91	0.03	0.8	R39
4	100	7.62	194	5.875	149.22	0.312	7.92	0.469	11.91	0.03	0.8	R46
6	150	9.75	248	8.312	211.12	0.375	9.52	0.531	13.49	0.06	1.5	R50
8	200	12.50	318	10.625	269.88	0.438	11.13	0.656	16.66	0.06	1.5	R54
10	250	14.62	371	12.750	323.85	0.438	11.13	0.656	16.66	0.06	1.5	R58
12	300	17.25	438	15.000	381.00	0.562	14.27	0.906	23.01	0.06	2.3	R63
14	350	19.25	489	16.500	419.10	0.625	15.88	1.062	26.97	0.09	2.3	R67
16	400	21.50	546	18.500	469.90	0.688	17.48	1.188	30.18	0.09	2.3	R71
18	450	24.12	613	21.000	533.40	0.688	17.48	1.188	30.18	0.09	2.3	R75
20	500	26.50	673	23.000	584.20	0.688	17.48	1.312	33.32	0.09	2.3	R79
24	600	31.25	794	27.250	692.15	0.812	20.62	1.438	36.53	0.09	2.3	

Class 2500 (RJT)

2	50	5.25	133	4.000	101.60	0.312	7.92	0.469	11.91	0.03	0.8	R26
2½	65	5.88	149	4.375	111.12	0.375	9.52	0.531	13.49	0.03	0.8	R28
3	80	6.62	168	5.000	127.00	0.375	9.52	0.531	13.49	0.06	1.5	R32
4	100	8.00	203	6.188	157.18	0.438	11.13	0.656	16.66	0.06	1.5	R38
6	150	11.00	279	9.000	228.60	0.500	12.70	0.781	19.84	0.06	1.5	R47
8	200	13.38	340	11.000	279.40	0.562	14.27	0.906	23.01	0.06	1.5	R51
10	250	16.75	425	13.500	342.90	0.688	17.48	1.188	30.18	0.09	2.3	R55
12	300	19.50	495	16.000	406.40	0.688	17.48	1.312	33.32	0.09	2.3	R60

Material Specifications and Mechanical Properties

ASTM No.	Chemical Compositions(Max)%									Mechanical Properties(Min)				Hardness
	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	Tensile KSI	Yield KSI	Elongation %	Reduction of Area%	
A105	0.35	1.05	0.035	0.040	0.35	0.30	0.12	0.40	0.40	485	250	30	30	≤187
A216 WCB	0.30	1.00	0.040	0.045	0.60	0.50	0.20	0.50	0.30	485	250	22	35	
A216 WCC	0.25	1.20	0.040	0.045	0.60	0.50	0.20	0.50	0.30	485	275	22	35	
A217 WC1	0.25	0.80	0.040	0.045	0.60	-	0.65	-	0.50	450	240	24	35	
A217 WC6	0.20	0.80	0.040	0.045	0.60	1.50	0.65		0.50	485	275	20	35	
A217 WC9	0.18	0.70	0.040	0.045	0.60	2.75	1.20		0.50	485	275	20	35	
A217 C5	0.20	0.70	0.040	0.045	0.75	6.50	0.65		0.50	620	415	18	35	
A217 CA15	0.15	1.00	0.040	0.040	1.50	14.00	0.50	1.00		620	450	18	30	
A351 CF8	0.08	1.50	0.040	0.040	2.00	21.00	0.50	11.00		485	205	35		
A351 CF8M	0.08	1.50	0.040	0.040	1.50	21.00	3.00	12.00		485	205	30		
A351 CF3	0.03	1.50	0.040	0.040	2.00	21.00	0.50	12.00		485	205	35		
A351 CF3M	0.03	1.50	0.040	0.040	1.50	21.00	3.00	13.00		485	205	30		
A351 CN7M	0.07	1.50	0.040	0.040	1.50	22.00	3.00	30.50	4.00	425	170	35		
A352 LCB	0.30	1.00	0.040	0.045	0.60	0.50	0.20	0.50	0.30	450	240	24	35	J(lbf ft)18(13)
A352 LCC	0.25	1.20	0.040	0.045	0.60	0.50	0.20	0.50	0.30	485	275	22	35	J(lbf ft)20(15)
A182 F6a	0.15	1.00	0.040	0.030	1.00	13.50		0.50		585	380	18	35	167-229
A182 F304	0.08	2.00	0.045	0.030	1.00	20.00		11.00		515	205	30	50	
A182 F316	0.08	2.00	0.045	0.030	1.00	18.00	3.00	14.00		515	205	30	50	
A182 F304L	0.035	2.00	0.045	0.030	1.00	20.00		13.00		485	170	30	50	
A182 F316L	0.035	2.00	0.045	0.030	1.00	18.00	3.00	15.00		485	170	30	50	
A276 410	0.15	1.00	0.040	0.030	1.00	13.50				690	550	15	45	
A276 420	≥0.15	1.00	0.040	0.030	1.00	14.00								≤241
A193 B7	0.49	1.10	0.035	0.040	0.35	1.20	0.25			860	720	16	50	
A193 B7M	0.49	1.10	0.035	0.040	0.35	1.20	0.25			690	550	18	50	HB235 HRB99
A193 B8	0.08	2.00	0.045	0.030	1.00	20.00		10.50		515	205	30	50	HB223 HRB96
A193 B8M	0.08	2.00	0.045	0.030	1.00	18.00	3.00	14.00		515	205	30	50	HB223 HRB96
A194 2H	0.40	1.00	0.040	0.050	0.40									HB248-352 HRC24-38
A194 2HM	0.40	1.00	0.040	0.050	0.40									HB159-237 HRC22
A320 L7	0.48	1.00	0.035	0.040	0.35	1.10	0.25			860	725	16	50	
A320 L7M	0.48	1.00	0.035	0.040	0.35	1.10	0.25			690	550	18	50	HB235 HRB99
A194 8	0.08	2.00	0.045	0.03	1.00	20		10.50						HB126-300 HRC60-105

Frequently Used Units Conversion Tables

Class	Class & Pressure Reference Table									
	Class	150	300	400	600	800	900	1500	2500	
	Pressure Bar	6Bar 10Bar 16Bar 20Bar	25Bar 40Bar 50Bar	64Bar	100Bar	130Bar	150Bar	250Bar	420Bar	
Flow	Cubic Feet/Min.				62.43		Pounds of Water/Min.			
	Cubic Feet/Sec.				448.831		Gallons/Min.			
	m ³ /hr				4.403		US GPM			
Power	Horsepower				33,000		Ft.-Lb./Min.			
	Horsepower				550		Ft.-Lb./Sec.			
	Horsepower				745.7		Watts			
	Ft.-Lb./Sec.				4.6263		BTU/Hr			
	Kilowatts				1.341		Horsepower			
Energy	BTU				778.3		Ft. Lbs.			
	Kilowatts-Hrs				3413		BTU			
Torque	Nm				10.2		kgf·cm			
	Nm				8.8585		lbf·in			

Frequently Used Units Conversion Tables

Size	In	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16
	mm	4	6	10	15	20	25	32	40	50	65	80	90	100	125	150	200	250	300	350	400
	In	18	20	24	26	28	30	32	34	36	42	48	54	60	64	72	80	84	88	96	
	mm	450	500	600	650	700	750	800	850	900	1050	1200	1350	1500	1600	1800	2000	2100	2200	2400	
Pressure	PSI	Pounds Per Sq. In.								0.069				Bar				Bar			
	PSI	Pounds Per Sq. In.								6.89				Kilopascals				Kpa			
	PSI	Pounds Per Sq. In.								0.07				Kilogram Per Sq. Centimeter				Kg/Cm ²			
	Lb./Ft. ²	Pounds Per Sq. Ft.								4.88				Kilogram Per Sq. Meter				Kg/M ²			
	Kpa	Kilopascals								0.145				Pounds Per Sq. In.				PSI			
	Kg/Cm ²	Kilogram Per Sq. Centimeter								14.22				Pounds Per Sq. In.				PSI			
	Bar	Pounds Per Sq. In.								0.069				Bar				Bar			
Length	In	Inches								2.54				Centimeters				Cm			
	Ft	Feet								30.48				Centimeters				Cm			
	mm	Millimeters								0.03937				Inches				In			
	Cm	Centimeters								0.3937				Inches				In			
	m	Meters								3.2808				Feet				Ft			
Mass	Oz	Ounces								28.35				Grams				G			
	Lb	Pound								0.4536				Kilograms				Kg			
	G	Grams								0.03527				Ounces				Oz			
	Kg	Kilograms								2.205				Pound				Lb			
Temperature	°F	Fahrenheit								(°F - 32) x 5 ÷ 9				Celsius				°C			
	°C	Celsius								°C x 9 ÷ 5 + 32				Fahrenheit				°F			
Area	In ²	Square Inches								6.45				Square Centimeters				Cm ²			
	Ft ²	Square Feet								0.0929				Square Meters				M ²			
	Cm ²	Square Centimeters								0.155				Square Inches				In ²			
Volume	Fl. Oz	Fluid Ounces								29.5625				Milliliters				ML			
	Qt	Quart								0.946				Liters				L			
	Gal	Gallons								3.785				Liters				L			
	Ft ³	Cubic Feet								0.0283				Cubic Meters				M ³			
	ML	Milliliters								0.0338				Fluid Ounces				Fl. Oz			
	L	Liters								1.0571				Quart				Qts			
	L	Liters								0.2642				Gallons				Gal			
	M ³	Cubic Meters								35.34				Cubic Feet				Ft ³			
	In ³	Cubic Inches								5.787 x 10 ⁻⁴				Cubic Feet				Ft ³			

How to order?

To assure proper sizing of actuator, Taloar suggests customers to send us the system requirements before ordering to prevent damage to the system.

The following product information is required in the orders for proper sizing:

- Types, materials, connection modes, sizes and quantities.
- Fluid media, temperature and maximum operating pressure.
- Requirements for inside sealing material of the valve body, valve shaft and valve disc.
- Actuation modes such as manual-actuated, electric-actuated or pneumatic-actuated.
- Requirements for product package, transportation and delivery date.
- Other special requirements.

Please feel free to browse Taloar's full range of products at www.taloar.com If you need special specifications for your special need or for specifications not shown in the catalogue, please consult the Taloar's sales department.

Note: Under no circumstances shall Taloar be liable for any consequences arising out of users' failure to pick up the right product or the company's failure to provide accurate product instructions.

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Organizations for industrial standards:

ASTM	American Society for Testing and Materials
ANSI	American National Standards Institute
ASME	American Society of Mechanical Engineers
FM	FM Approvals LLC
MSS	Manufacturers Standardization Society
AISI	American Iron and Steel Institute
API	American Petroleum Institute
AWS	American Welding Society
AWWA	American Water Works Association
UL	Underwriters Laboratories Inc
NSF	National Science Foundation
NACE	National Association of Corrosion Engineers
ASQ	American Society for Quality
SAE	Society of Automotive Engineer



Bronze, Iron and Ductile Iron Valves



Carbon & Stainless Steel valves



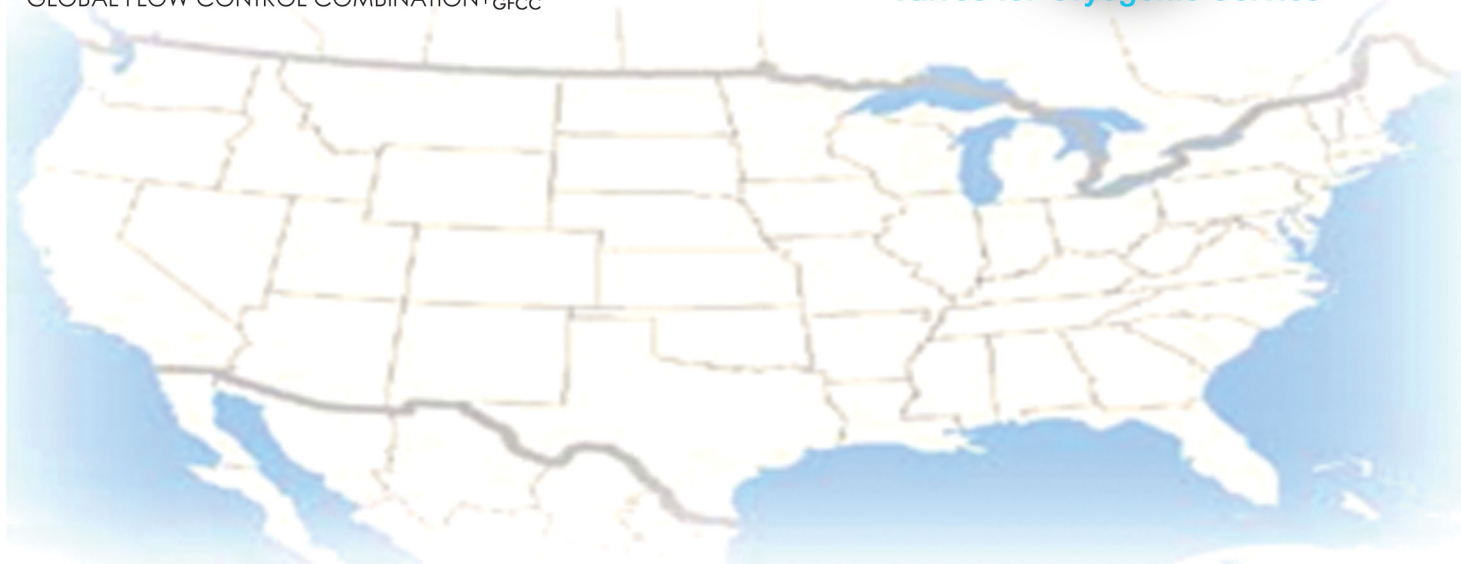
Ball Valves & Butterfly Valves



Valves for Cryogenic Service

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