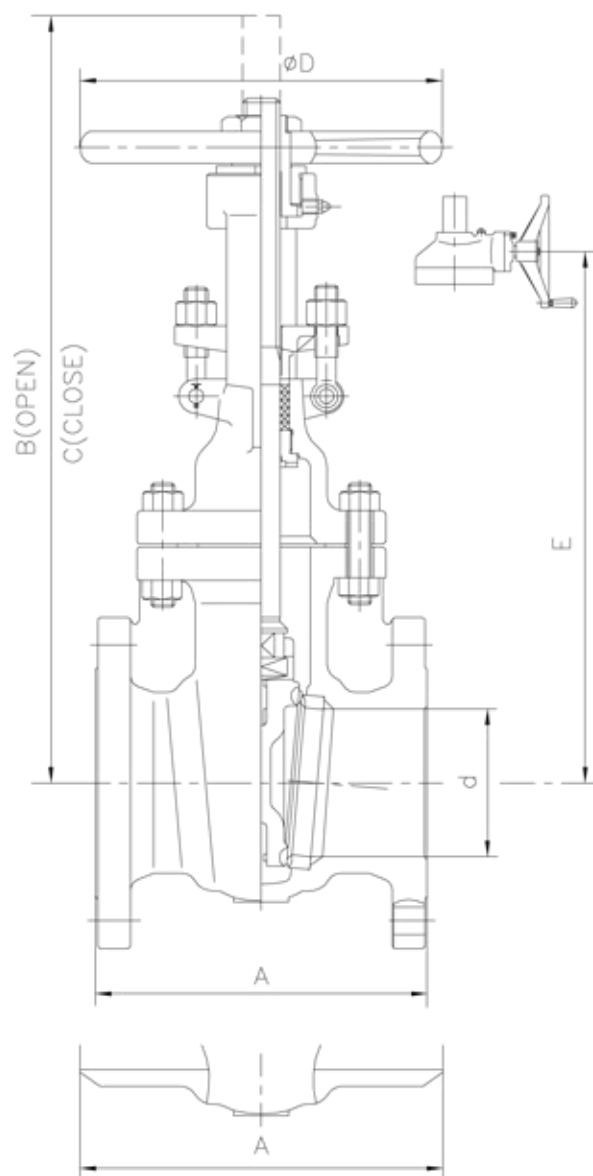




GATE VALVES—Class 150#

Size range: 2" to 72"



STANDARDS:

Design	ANSI B16.34&API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5(2" ~24")
	ANSI B16.47(30" ~48")
Butt-Weld Ends	ANSI B16.25

Class 150# Fig NO. 57(RF/RTJ)
57 1/2 (BW)

DIMENSIONS AND WEIGHTS

Size inch	d	A		B (OPEN)	C (CLOSE)	D	E	Weight(kg) RF & BW	
		RF	BW						
2"	51	178	216	372	312	216		20	17
3"	76	203	282	478	394	230		36	29
4"	102	229	305	573	460	254		53	46
6"	152	267	403	790	625	310		85	77
8"	203	292	419	975	760	380		136	116
10"	254	330	457	1174	920	457		220	202
12"	305	356	502	1409	1085	510		323	294
14"	337	381	572	1564	1200	560	1287	387	350
16"	387	406	610	1773	1361	610	1448	553	506
18"	438	432	660	2004	1539	700	1639	660	575
20"	489	457	711	2227	1702	700	1802	810	720
24"	591	508	813	2620	2007	800	2107	1250	1130
30"	743	610	914	3292	2500	1100	2643	1700	1598
36"	878	711	1016	4068	3150	1300	3343	3235	3100
42"	1025	813	1092	4280	3200	1300	3393	4650	4500
48"	1169	864	1168	4858	3658	1300	3751	6850	6650

Other Sizes and materials: On request

RF: Flanged BW: Butt Weld

Sizes 14" and larger the use of gear actuator is recommended.

AVAILABLE OPTIONS:

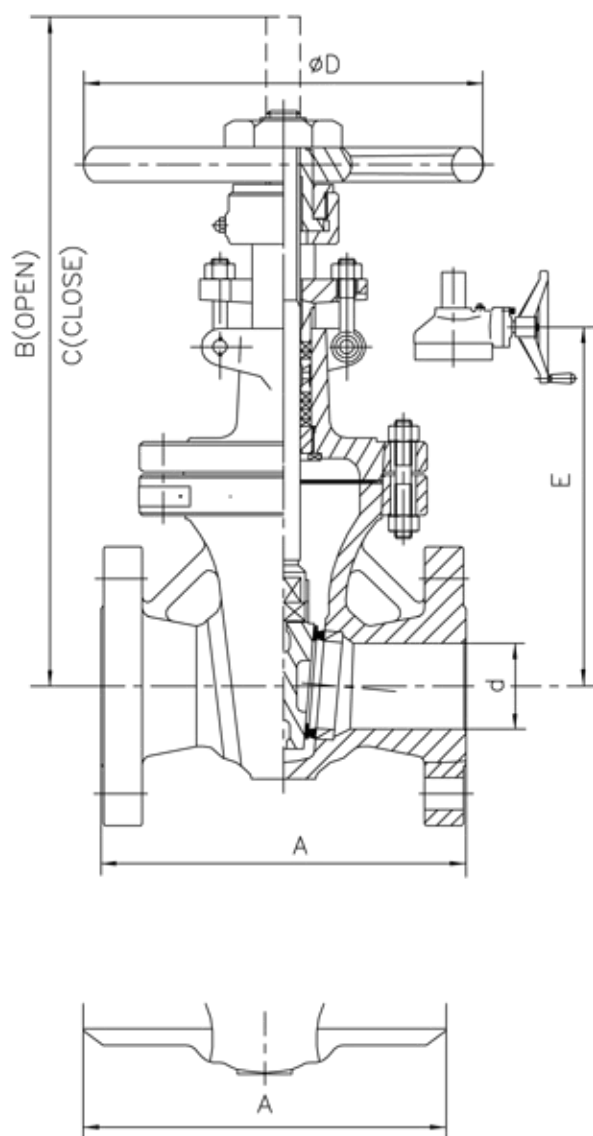
STRUCTURE	End Connection: Flange Raised Face, Butt Weld, RTJ...	
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
* MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...
ACCESSORIES	Limited switch, Sealing water connection, Bypass, Drain, Equalizing pipes and Etc.	

*Please refer to page of "Build Material"



GATE VALVES—Class 300#

Size range: 2" to 54"



STANDARDS:

Design	ANSI B16.34 & API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5 (2" ~ 24")
	ANSI B16.47 (30" ~ 42")
Butt-Weld Ends	ANSI B16.25

Class 300# Fig NO. 43(RF/RTJ)
43 1/2 (BW)

DIMENSIONS AND WEIGHTS

Size inch	d	A RF & BW	B (OPEN)	C (CLOSE)	D	E	Weight(kg) RF & BW	
2"	51	216	406	343	216		30	26
3"	76	283	495	411	228		55	47
4"	102	305	600	485	254		83	68
6"	152	403	831	660	380		137	118
8"	203	419	1035	815	460		240	195
10"	254	457	1285	1011	510		333	271
12"	305	502	1460	1135	560	1222	536	432
14"	337	762	1646	1285	610	1372	699	595
16"	387	838	1860	1448	700	1548	1010	848
18"	432	914	2043	1575	700	1675	1205	1025
20"	483	991	2298	1778	800	1878	1720	1460
24"	584	1143	2752	2134	1100	2277	2506	2390
30"	737	1397	3650	2870	1600	3013	4115	3900
36"	890	1727	4150	3226	1600	3419	6849	6530
42"	1016	1930	4508	3445	1600	3638	7925	7700

Other Sizes and materials: On request

RF: Flanged BW: Butt Weld

Sizes 12" and larger the use of gear actuator is recommended.

AVAILABLE OPTIONS:

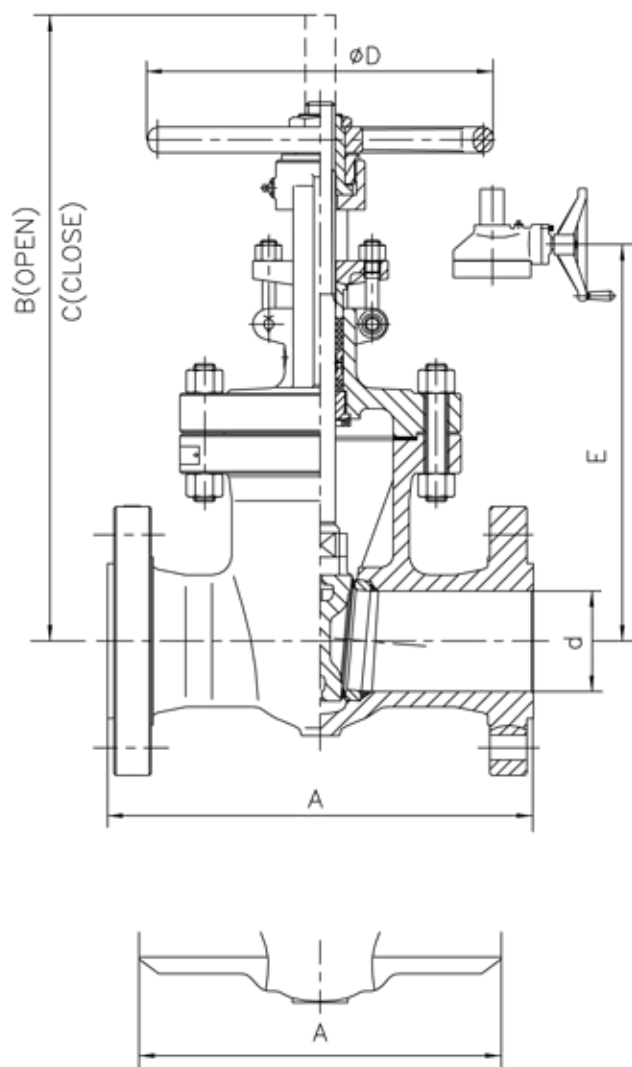
STRUCTURE	End Connection:	Flange Raised Face, Butt Weld, RTJ...
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
* MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...
ACCESSORIES	Limited switch, Sealing water connection, Bypass, Drain, Equalizing pipes and Etc.	

*Please refer to page of "Build Material"



GATE VALVES—Class 600#

Size range: 2" to 54"



STANDARDS:

Design	ANSI B16.34&API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5(2" ~24")
	ANSI B16.47(30" ~42")
Butt-Weld Ends	ANSI B16.25

Class 600# Fig NO. 86RF/RTJ)
86 1/2 (BW)

DIMENSIONS AND WEIGHTS

Size Inch	d	A RF & BW	B (OPEN)	C (CLOSE)	D	E	Weight(kg) RF & BW	
2"	51	292	418	355	216		41	35
3"	76	356	542	457	254		88	68
4"	102	432	647	533	310		131	104
6"	152	559	913	749	510		253	208
8"	200	660	1142	922	560		413	328
10"	248	787	1415	1143	700	1243	623	496
12"	298	838	1581	1262	700	1362	784	637
14"	327	889	1719	1371	900	1514	1288	1120
16"	375	991	1957	1560	1100	1703	1820	1448
18"	419	1092	2130	1690	1100	1833	2150	1828
20"	464	1194	2415	1918	1100	2111	2540	2201
24"	559	1397	2850	2260	1300	2453	4506	4212
30"	695	1651	3550	2794	1600	2983	7398	7085
36"	865	2083	4311	3396	1600	3589	12878	12640
42"	992	2431	4705	3650	1600	3843	15768	15200

Other Sizes and materials: On request

RF: Flanged BW: Butt Weld

Sizes 10" and larger the use of gear actuator is recommended.

AVAILABLE OPTIONS:

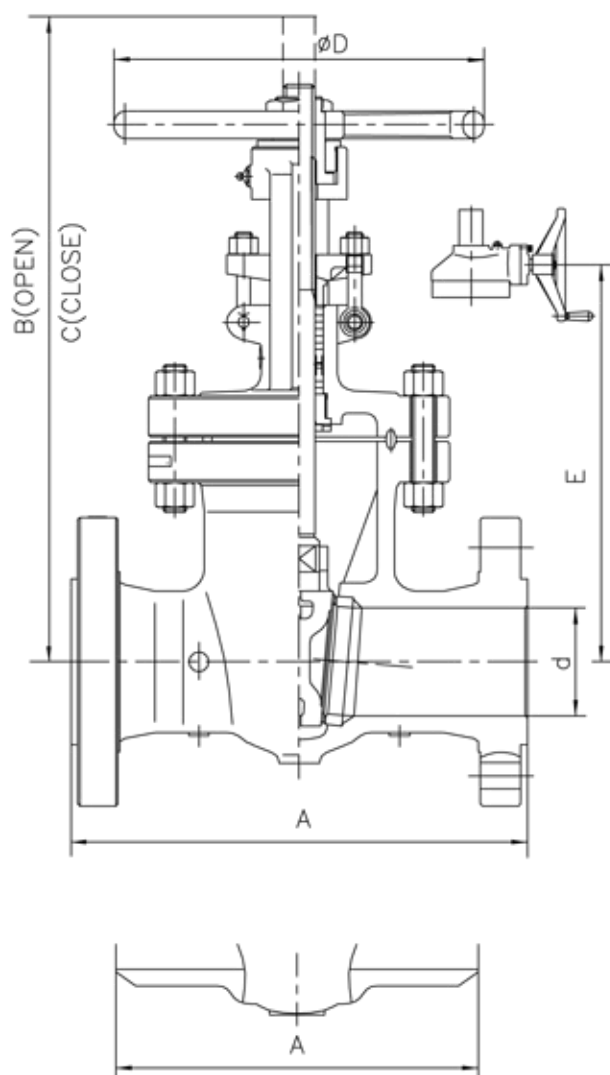
STRUCTURE	End Connection: Flange Raised Face, Butt Weld, RTJ...	
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
* MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...
ACCESSORIES	Limited switch, Sealing water connection, Bypass, Drain, Equalizing pipes and Etc.	

*Please refer to page of "Build Material"



GATE VALVES—Class 900#

Size range: 2" to 36"



STANDARDS:

Design	ANSI B16.34&API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5
Butt-Weld Ends	ANSI B16.25

Class 900# Fig NO. 93(RF/RTJ)
93 1/2 (BW)

DIMENSIONS AND WEIGHTS

Size inch	d	A RF & BW	B (OPEN)	C (CLOSE)	D	E	Weight(kg) RF & BW	
2"	47	368	494	432	254		90	82
3"	73	381	564	477	310		123	108
4"	98	457	715	597	380		148	122
6"	146	610	945	777	560		420	359
8"	191	737	1227	1016	610	1116	650	566
10"	238	838	1426	1161	800	1304	1160	980
12"	282	965	1633	1321	900	1464	1700	1450
14"	311	1029	1777	1440	1100	1583	2300	2000
16"	356	1130	2061	1671	1100	1864	2750	2390
18"	400	1219	2322	1880	1300	2073	3550	3100
20"	445	1321	2598	2108	1300	2301	4586	4150
24"	533	1549	2900	2350	1500	2550	5310	5010

Other Sizes and materials: On request

RF: Flanged BW: Butt Weld

Sizes 8" and larger the use of gear actuator is recommended.

AVAILABLE OPTIONS:

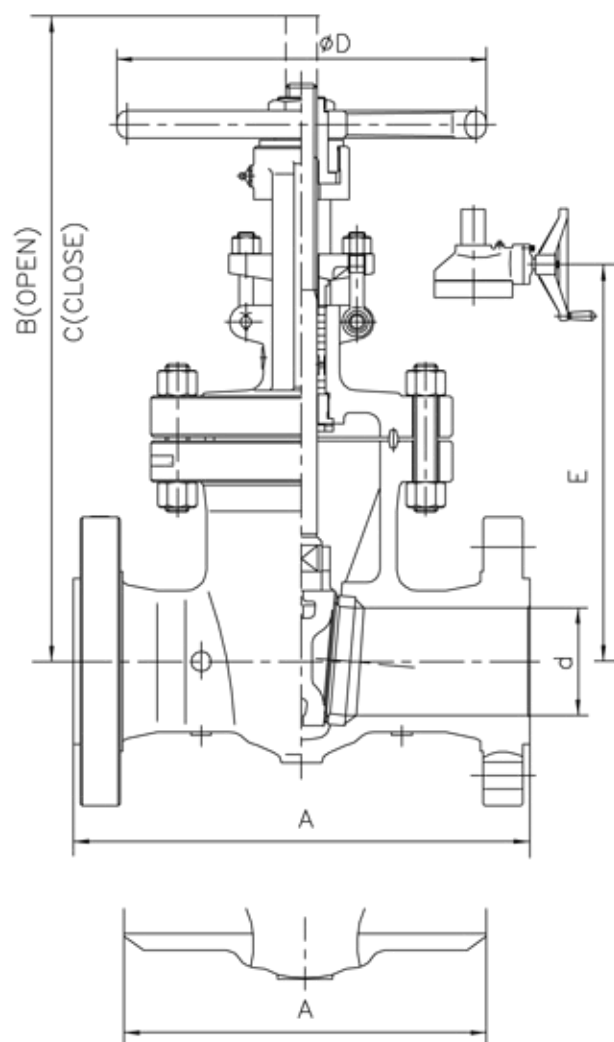
STRUCTURE	End Connection:	Flange Raised Face, Butt Weld, RTJ...
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
* MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...
ACCESSORIES	Limited switch, Sealing water connection, Bypass, Drain, Equalizing pipes and Etc.	

* Please refer to page of "Build Material"



GATE VALVES—Class 1500#

Size range: 2" to 24"



STANDARDS:

Design	ANSI B16.34&API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5
Butt-Weld Ends	ANSI B16.25

Class 1500# Fig NO. 97(RF/RTJ)
97 1/2 (BW)

DIMENSIONS AND WEIGHTS

Size inch	d	A RF & BW	B (OPEN)	C (CLOSE)	D	E	Weight(kg) RF & BW	
2"	47	368	494	432	254		117	93
3"	70	470	564	658	380		240	185
4"	92	546	715	787	510		337	285
6"	136	705	945	1186	610	1273	680	584
8"	178	832	1227	1267	800	1354	1228	978
10"	222	991	1426	1558	900	1658	2278	1990
12"	263	1130	1633	1738	900	1838	3260	2850
14"	289	1257	1777	1907	1100	2050	4100	3320
16"	330	1384	2061	2195	1300	2338	5960	4890
18"	371	1537	2322	2492	1500	2685	6375	6240
20"	415	1664	3100	2620	1500	2815	6875	6540
24"	498	1941	3720	3170	1500	3105	10300	9240

Other Sizes and materials: On request

RF: Flanged BW: Butt Weld

Sizes 6" and larger the use of gear actuator is recommended.

AVAILABLE OPTIONS:

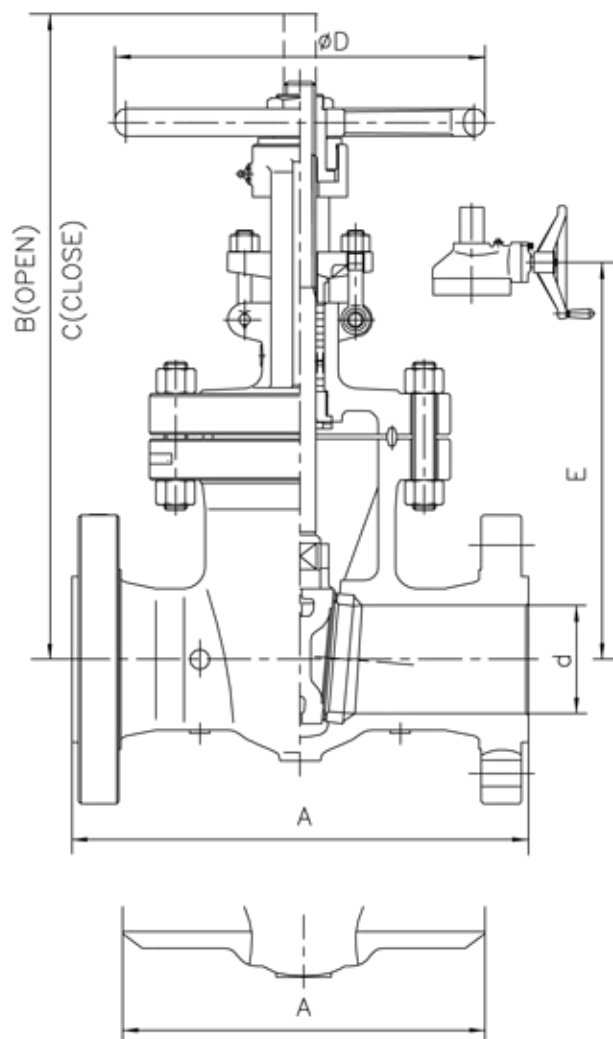
STRUCTURE	End Connection: Flange Raised Face, Butt Weld, RTJ...	
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
* MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...
ACCESSORIES	Limited switch, Sealing water connection, Bypass, Drain, Equalizing pipes and Etc.	

*Please refer to page of "Build Material"



GATE VALVES—Class 2500#

Size range: 2" to 20"



STANDARDS:

Design	ANSI B16.34&API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5
Butt-Weld Ends	ANSI B16.25

Class 2500# Fig NO. 77(RF/RTJ)
77 1/2 (BW)

DIMENSIONS AND WEIGHTS

Size inch	d	A RF & BW	B (OPEN)	C (CLOSE)	D	E	Weight(kg) RF & BW	
2"	38	451	540	480	310		147	125
3"	57	578	691	610	380	710	293	236
4"	73	673	855	760	510	860	425	370
6"	111	914	1152	1003	700	1103	1328	1040
8"	146	1022	1532	1340	1100	1483	1836	1700
10"	184	1270	1720	1500	1100	1693	3289	3100
12"	219	1422	2292	2042	1100	1753	4189	3780

Other Sizes and materials: On request

RF: Flanged BW: Butt Weld

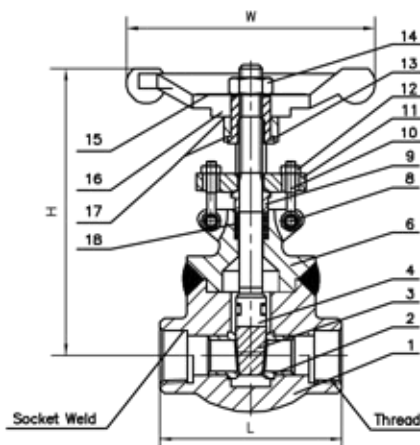
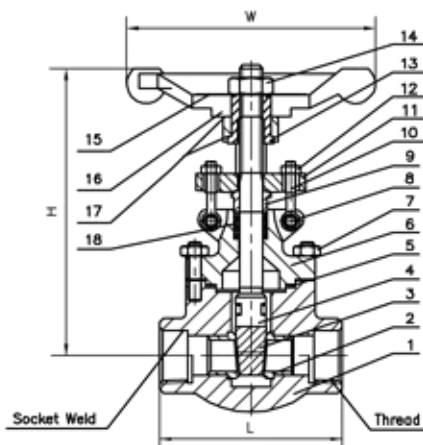
Sizes 3" and larger the use of gear actuator is recommended.

AVAILABLE OPTIONS:

STRUCTURE	End Connection: Flange Raised Face, Butt Weld, RTJ...	
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
* MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...
ACCESSORIES	Limited switch, Sealing water connection, Bypass, Drain, Equalizing pipes and Etc.	

* Please refer to page of "Build Material"

Gate Valve 800Lb



Standard Material Specifications

NO.	Part Name	CS To ASTM	AS To ASTM	SS To ASTM	
		Type A105	Type LF2	Type F304(L)	Type F316(L)
1	Body	A105	A182 LF2	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 430&410	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite		SS+PTFE	
6	Bonnet	A105	A182 LF2	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420		A182 F304	
9	Gland	A276 410		A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420			
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS			
16	Handwheel	A197			
17	Bearing Gasket	A473 431			
18	Stem Packing	Flexible Graphite		PTFE	
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

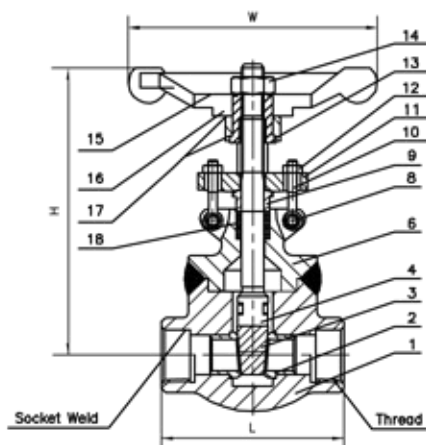
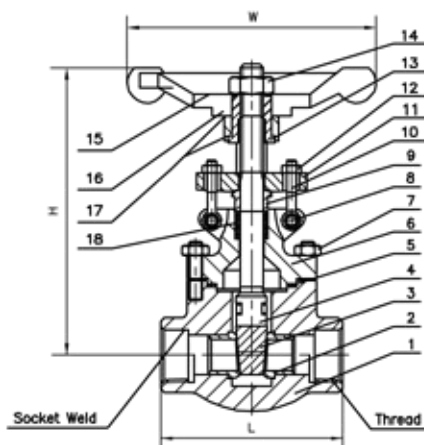
Note: Other materials are available upon request.

CS=Carbon Steel;AS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

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

Gate Valve 900Lb~1500Lb



Standard Material Specifications

NO.	Part Name	CS To ASTM	AS To ASTM	SS To ASTM	
		Type A105	Type LF2	Type F304(L)	Type F316(L)
1	Body	A105	A182 LF2	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 430&410	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite		SS+PTFE	
6	Bonnet	A105	A182 LF2	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420		A276 F304	
9	Gland	A276 410		A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420			
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS			
16	Handwheel	A197			
17	Bearing Gasket	A473 431			
18	Stem Packing	Flexible Graphite		PTFE	
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

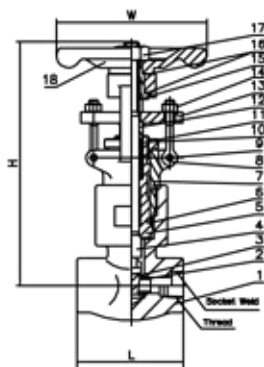
Note: Other materials are available upon request.

CS=Carbon Steel;AS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS	Conv.	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
	Full		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L		92	111	111	120	120	140	178	210
H(OPEN)		169	197	197	236	246	283	330	354
W		100	125	125	160	160	180	200	240
Weights	Bolted	2.5	4.3	4.2	6.6	8.8	12.5	17.2	23.5
	Welded	2.4	4.2	4.0	6.3	8.7	12.1	17.2	22.0

Pressure-seal Gate Valve 900Lb~2500Lb



Standard Material Specifications

NO.	Part Name	CS To ASTM	AS To ASTM	SS To ASTM	
		Type A105	Type LF2	Type F304(L)	Type F316(L)
1	Body	A105	A182 LF2	A182 F304(L)	A182 F316(L)
2	Seat	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 430&410	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Seat	A105	A182 F304	A182 F304(L)	F316(L)
6	Pressure Ring	A276 304(L)			A276 316(L)
7	Bonnet	A105	A182 LF2	A182 F304(L)	A182 F316(L)
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8(M)	
9	Pin	A276 420		A182 F304(L)	
10	Stem Packing	Flexible Graphite		PTFE	
11	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
12	Gland	A276 F420		A182 F304	
13	Gland Flange	A216 WCB		A351 CF8	
14	Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276-410			
16	Bearing Gasket	A473 431			
17	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
18	Handwheel	A197			
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note: Other materials are available upon request.

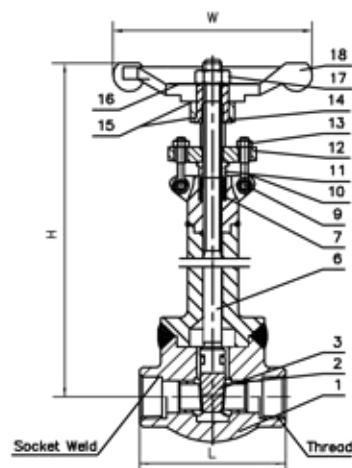
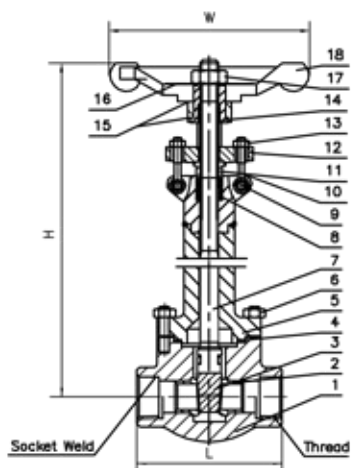
CS=Carbon Steel;AS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

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

Cryogenic Gate Valve 800Lb

Cryogenic Gate Valve 800Lb



Standard Material Specifications

NO.	Part Name	CS To ASTM	AS To ASTM	SS To ASTM	
		Type Lf2	Type Lf3	Type F304(L)	Type F316(L)
1	Body	A350 Lf2	A350 Lf3	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 410	A276 304(L)	A276 316(L)
3	Wedge	A350 Lf2	A350 Lf3	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+graphite		SS+PTFE	
5	Bonnet	A350 Lf2	A350 Lf3	A182 F304(L)	F316(L)
6	Bonnet Bolt	A193 B7	A193 B7	A193 B8	A193 B8(M)
7	Stem	A182 F6	A182 F6	A182 F304(L)	A182 F316(L)
8	Stem Packing	Flexible Graphite		PTFE	
9	Pin	A276 420		A276 304	
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8(M)
11	Gland	A276 410		A182 F304(L)	A182 F316(L)
12	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
13	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
14	Yoke Nut	A276 420			
15	Bearing Gasket	A473 431			
16	Nameplate	SS			
17	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
18	Handwheel	A197			
Suitable Temperature		≥ -40°C	≥ -101°C	≥ -196°C	

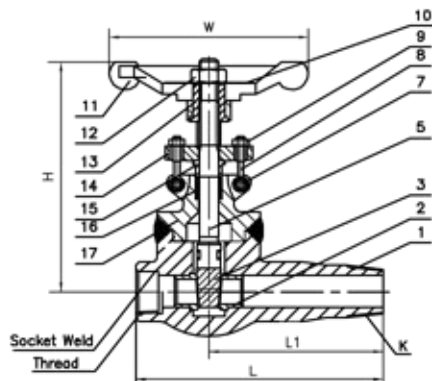
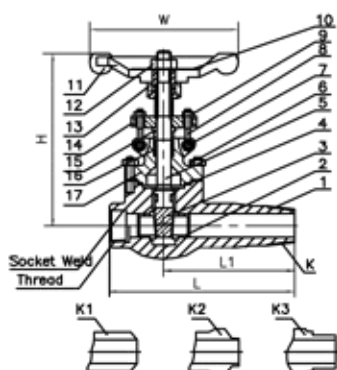
Note: Other materials are available upon request.

CS=Carbon Steel; AS=Alloy Steel; SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	79	92	111	120	120	140	178
H(OPEN)	330	333	360	407	475	475	551
W	100	100	125	160	160	180	200
Weights	Bolted	5.2	7.1	9.4	13.5	15.0	17.8
	Welded	4.8	6.4	8.7	12.2	13.4	15.2

Extended Body Gate Valve 800Lb



The Specific Connection Code

Connection Code	K	K ₁	K ₂	K ₃
	Screwed Weld	Inclined End	A Full Strength End	Socket Weld End

Standard Material Specifications

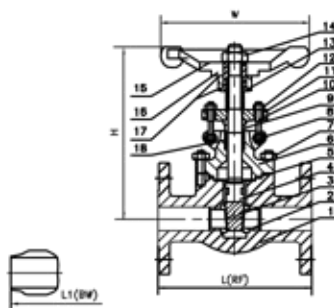
NO.	Part Name	CS To ASTM	AS To ASTM	SS To ASTM	
		Type A105	Type LF2	Type F304(L)	Type F316(L)
1	Body	A105	A182 LF2	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&403	A182 F304	A182 F304(L)	A182 F316(L)
4	Gasket	Corrugated SS+graphite		SS+PTFE	
5	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
6	Bonnet Bolt	A105	A182 LF2	A182 F304(L)	A182 F316(L)
7	Pin	A193 B7	A193 B16	A193 B8	A193 B8M
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
9	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
10	Nameplate	SS			
11	Handwheel	A197			
12	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 420			
14	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
15	Gland	A276 410		A182 F304(L)	A182 F316(L)
16	Stem Packing	Flexible Graphite		PTFE	
17	Bonnet	A105	A182 LF2	A182 F304(L)	A182 F316(L)
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ , CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

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

Dimensions(mm) and Weights(Kg)

NPS	Conv.	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	Full		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"
L ₁		107.5	107.5	107.5	120	127	127	152
L		147	147	153.5	175.5	187	187	222
H(OPEN)		158	158	169	197	236	246	283
W		100	100	100	125	160	160	180
Weights	Bolted	3.1	2.9	3.4	5.5	7.8	8.3	13.4
	Welded	2.8	2.6	3.1	5.1	7.4	7.6	12.1

Flanged End Gate Valve 150Lb~600Lb



Eg.FIG.G6C1H

Standard Material Specifications

NO.	Part Name	CS To ASTM	AS To ASTM	SS To ASTM	
		Type A105	Type LF2	Type F304(L)	Type F316(L)
1	Body	A105	A182 LF2	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&430	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite		SS+PTFE	
6	Bonnet	A105	A182 LF2	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420		A276 304	
9	Gland	A276 410		A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 410			
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS			
16	Handwheel	A197			
17	Bearing Gasket	A473 431			
18	Stem Packing	Flexible Graphite		PTFE	
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

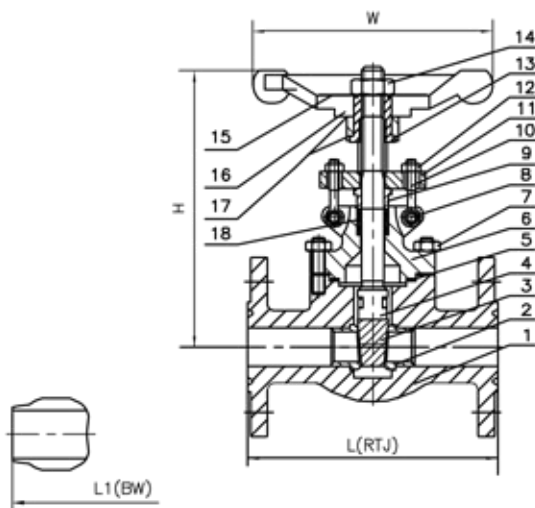
Note:Other materials are available upon request.

CS=Carbon Steel;AS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L(RF)	150		108	117	127	140	165	203
	300		140	152	165	178	190	216
L1(BW)	600		165	190	216	229	241	292
H(OPEN)	150,300		158	169	197	236	246	283
	600		169	197	236	246	283	320
W			100	100	125	160	160	180
Weights	150	RF	4.5	5.2	8.2	11.5	12.5	20.3
		BW	2.8	3.3	5.4	7.1	8.2	12.5
	300	RF	4.8	6.2	9.3	14	15.5	23.4
		BW	3.5	4.4	6.8	8.1	9.2	15.4
	600	RF	5.9	7.4	10.4	16.2	17.5	28.3
		BW	4.5	5.1	8.2	10.5	12.4	20.1

Flanged End Gate Valve 900Lb~1500Lb



Standard Material Specifications

NO.	Part Name	CS To ASTM	AS To ASTM	SS To ASTM	
		Type A105	Type LF2	Type F304(L)	Type F316(L)
1	Body	A105	A182 LF2	A182 F304(L)	A182 F316(L)
2	Seat Ring	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&430	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Gasket	Corrugated SS+graphite		SS+PTFE	
6	Bonnet	A105	A182 LF2	A182 F304(L)	A182 F316(L)
7	Bonnet Bolt	A193 B7	A193 B16	A193 B8	A193 B8M
8	Pin	A276 420		A276 304	
9	Gland	A276 410		A182 F304(L)	A182 F316(L)
10	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8M
11	Gland Flange	A105	A182 F11	A182 F304(L)	A182 F316(L)
12	Gland Nut	A194 2H	A194 4	A194 8	A194 8M
13	Yoke Nut	A276 410			
14	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
15	Nameplate	SS			
16	Handwheel	A197			
17	Bearing Gasket	A473 431			
18	Stem Packing	Flexible Graphite		PTFE	
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

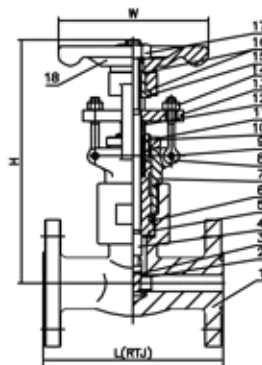
Note: Other materials are available upon request.

CS=Carbon Steel;AS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L(RTJ)	900,1500	216	229	254	279	305	371
L ₁ (BW)	900,1500	216	229	254	279	305	368
H(OPEN)		197	197	236	246	283	330
W		125	125	160	160	180	200
Weights	RTJ	7.2	11.5	15.6	16.2	22.6	32.8
	BW	5.2	9.3	12.4	13.8	18.9	27.5

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



Standard Material Specifications

NO.	Part Name	CS To ASTM	AS To ASTM	SS To ASTM	
		Type A105	Type LF2	Type F304(L)	Type F316(L)
1	Body	A105	A182 LF2	A182 F304(L)	A182 F316(L)
2	Seat	A276 420	A276 304	A276 304(L)	A276 316(L)
3	Wedge	A276 410&430	A182 F304	A182 F304(L)	A182 F316(L)
4	Stem	A182 F6	A182 F304	A182 F304(L)	A182 F316(L)
5	Pressure Seat	A105	A182 F304	A182 F304(L)	F316(L)
6	Pressure Ring	A276 304(L)			A276 316(L)
7	Bonnet	A105	A182 LF2	A182 F304(L)	A182 F316(L)
8	Gland Eyebolt	A193 B7	A193 B16	A193 B8	A193 B8(M)
9	Pin	A276 420		A182 F304(L)	
10	Stem Packing	Flexible Graphite		PTFE	
11	P.S.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
12	Gland	A276 F420		A182 F304	
13	Gland Flange	A216 WCB		A351 CF8	
14	Nut	A194 2H	A194 4	A194 8	A194 8M
15	Yoke Nut	A276 410			
16	Bearing Gasket	A473 431			
17	H.W.Lock Nut	A194 2H	A194 4	A194 8	A194 8M
18	Handwheel	A197			
Suitable Medium		W.O.G.etc	W.O.G.etc	HNO ₃ ,CH ₃ OOH etc	
Suitable Temperature		-29°C~425°C	-29°C~550°C	-29°C~180°C	

Note: Other materials are available upon request.

CS=Carbon Steel;AS=Alloy Steel;SS=Stainless Steel;

Dimensions(mm) and Weights(Kg)

NPS		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L(RTJ)	900Lb~1500Lb	216	229	351	279	305	368
	2500Lb	264	273	308	349	384	451
H(OPEN)	900Lb~1500Lb	216	250	270	320	350	445
	2500Lb	321	321	321	373	406	495
W		160	160	180	200	250	280
Weights	900Lb~1500Lb	19.6	21.5	25.7	37.8	48.5	99.8
	2500Lb	21.5	24.7	30.4	48.1	58.1	130.0

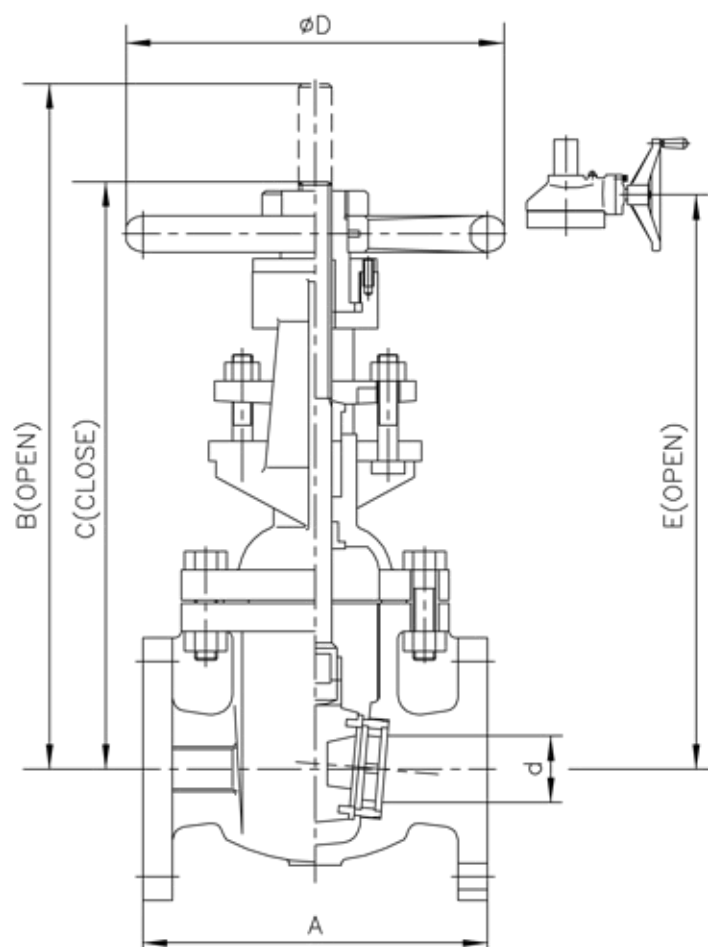


CAST IRON GATE VALVES (RISING STEM) – CLASS 125#

Size range: 1½" to 36"

STANDARDS:

Design	MSS SP-70
Test	MSS SP-70
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.1



Class 125# Fig No.501125

DIMENSIONS AND WEIGHTS

Size inch	d	A (FF)	B (OPEN)	C (CLOSE)	D	E (GEAR)	Weight (Kg)
1½"	38	165	333	290	180		16
2"	51	178	376	320	200		19
2½"	64	191	414	345	200		26
3"	76	203	467	387	200		29
4"	102	229	597	490	260		50
5"	127	254	708	576	300		71
6"	152	267	837	680	300		88
8"	203	292	1016	808	350		136
10"	254	330	1270	1010	400		214
12"	305	356	1390	1080	450		294
14"	337	381	1985	1640	508	1727	450
16"	387	406	2196	1804	558	1891	580
18"	438	432	2533	2090	610	2190	760
20"	489	457	2985	2490	610	2590	935
24"	591	508	3557	2960	762	3060	1230
30"	743	610	4090	3340	762	3483	2510
36"	878	711	4568	3680	762	3873	3980

Other Sizes: On request FF: Flat Flanged
Size 14" and larger the use of gear actuator
is recommended

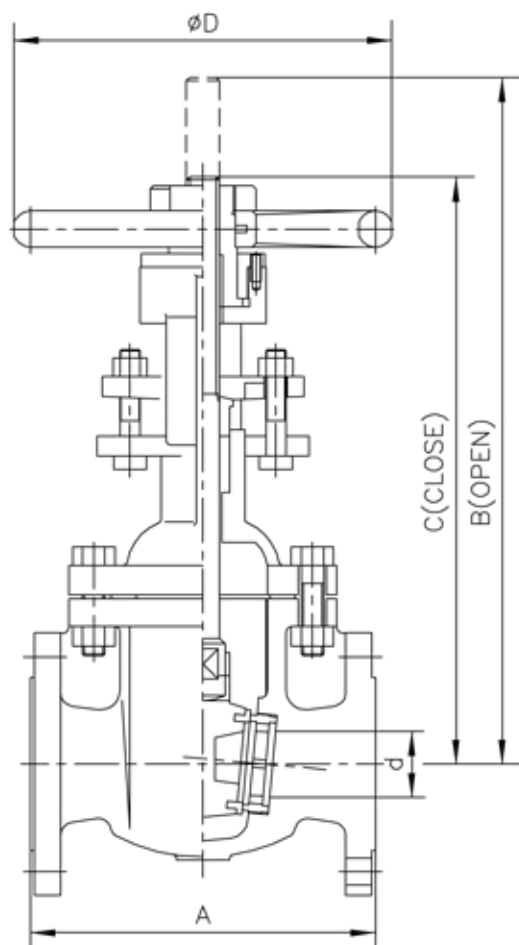
AVAILABLE OPTIONS:

STRUCTURE	End, Connection: Flange Flat Face...
	Seat Rings: Threaded (Renewable)
	Operation: Handwheel, Gear, Electric, Pneumatic, Hydraulic...
MATERIALS	Body: Gray Cast Iron, Ductile iron...
	Trims: Cast Bronze, Brass, Stainless Steel...



CAST IRON GATE VALVES (RISING STEM)– CLASS 250#

Size range: 2" to 12"



STANDARDS:

Design	MSS SP-70
Test	MSS SP-70
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.1

Class 250# Fig No.501250

DIMENSIONS AND WEIGHTS

Size inch	d	A (RF)	B (OPEN)	C (CLOSE)	D	Weight (Kg)
2"	51	216	398	342	200	27
2½"	64	241	458	392	200	39
3"	76	283	515	435	250	50
4"	102	305	597	495	300	74
5"	127	381	712	580	300	92
6"	152	403	821	664	350	128
8"	203	419	1050	842	400	211
10"	254	457	1295	1034	450	314
12"	305	502	1441	1130	505	433

Other Sizes:On request

RF:Flanged

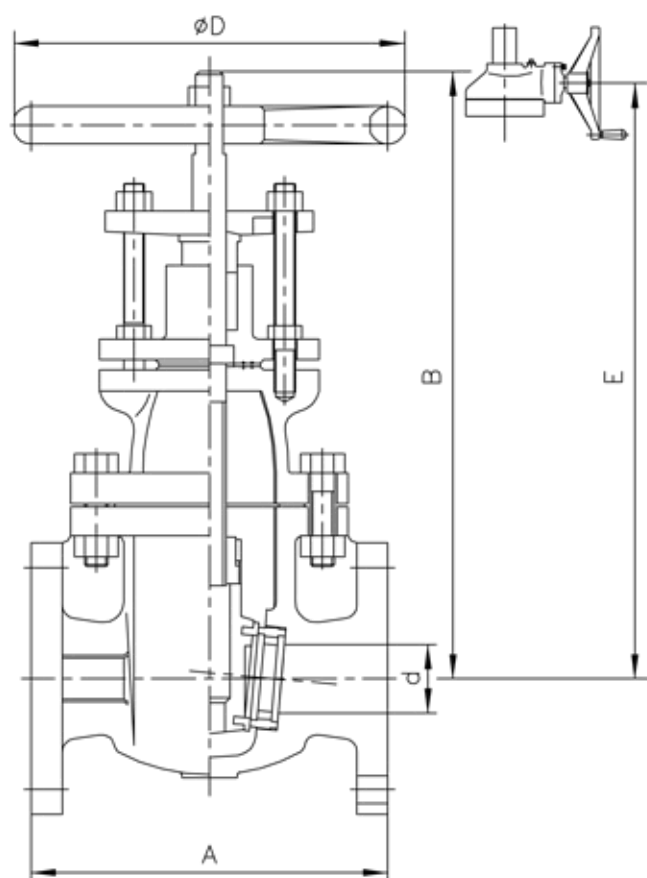
AVAILABLE OPTIONS:

STRUCTURE	End,Connection: Flange Raised Face...
	Seat Rings: Threaded(Renewable)
	Operation: Handwheel,Gear,Electric,Pneumatic,Hydraulic...
MATERIALS	Body: Gray Cast Iron, Ductile Iron...
	Trims: Cast Bronze, Brass, Stainless Steel...



CAST IRON GATE VALVES (NON-RISING STEM) – CLASS 125#

Size range: 1½" to 36"



STANDARDS:

Design	MSS SP-70
Test	MSS SP-70
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.1

Class 125# Fig No.511125

DIMENSIONS AND WEIGHTS

Size inch	d	A (FF)	B	D	E (GEAR)	Weight (Kg)
1½"	38	165	280	180		15
2"	51	178	313	200		18
2½"	64	191	334	200		25
3"	76	203	370	200		29
4"	102	229	430	260		48
5"	127	254	454	300		65
6"	152	267	550	300		80
8"	203	292	678	350		141
10"	254	330	750	400		202
12"	305	356	880	450		283
14"	337	381	940	508	1027	375
16"	387	406	1080	558	1167	497
18"	438	432	1180	610	1280	606
20"	489	457	1380	640	1480	890
24"	591	508	1460	640	1560	1170
30"	743	610	2140	762	2283	2320
36"	878	711	2385	762	2578	3810

Other Sizes: On request FF: Flat Flanged
Size 14" and larger the use of gear actuator
is recommended

AVAILABLE OPTIONS:

STRUCTURE	End, Connection:	Flange Flat Face...
	Seat Rings:	Threaded (Renewable)
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
MATERIALS	Body:	Gray Cast Iron, Ductile Iron...
	Trims:	Cast Bronze, Brass, Stainless Steel...

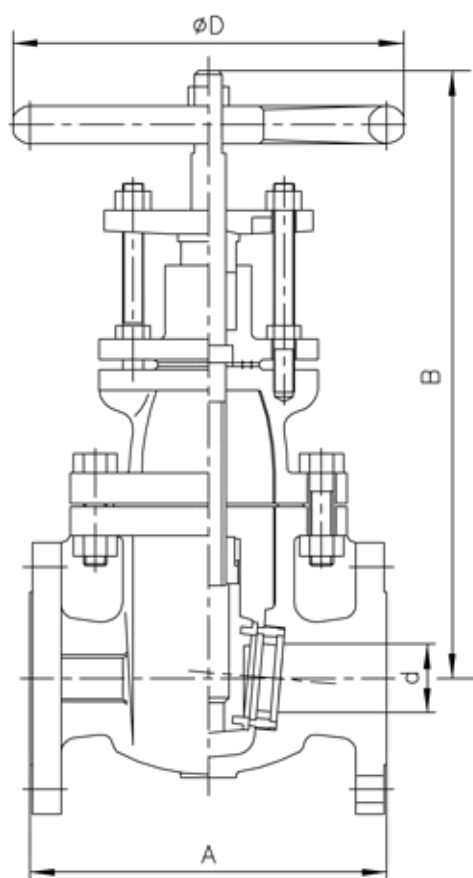


CAST IRON GATE VALVES (NON-RISING STEM)– CLASS 250#

Size range: 2" to 12"

STANDARDS:

Design	MSS SP-70
Test	MSS SP-70
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.1



Class 250# Fig No.511250

DIMENSIONS AND WEIGHTS

Size inch	d	A (RF)	B	D	Weight (Kg)
2"	51	216	333	200	23
2½"	64	241	379	200	31
3"	76	283	424	250	42
4"	102	305	466	300	69
5"	127	381	527	300	84
6"	152	403	605	350	116
8"	203	419	727	400	194
10"	254	457	812	450	298
12"	305	502	876	505	408

Other Sizes:On request

RF:Flanged

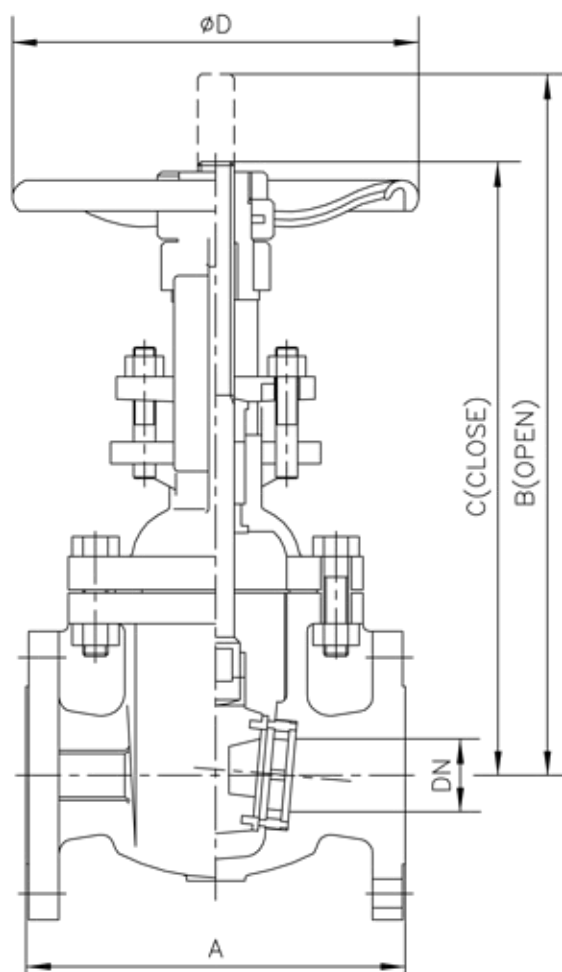
AVAILABLE OPTIONS:

STRUCTURE	End,Connection:	Flange Raised Face...
	Seat Rings:	Threaded(Renewable)
	Operation:	Handwheel,Gear,Electric,Pneumatic,Hydraulic...
MATERIALS	Body:	Gray Cast Iron, Ductile Iron...
	Trims:	Cast Bronze, Brass, Stainless Steel...



RIISING STEM WEDGE GATE VALVES–PN10,PN16

Size range: DN40 to DN250



STANDARDS:

Design	DIN 3352
Test	DIN 3230
Face to Face Dimensions	PN10–DIN3202 F4 PN16–DIN3205 F5
End Flange Dimensions	PN10–DIN2532 PN16–DIN2533

DIN–3202 F4 PN10 Fig No.51010

DIMENSIONS AND WEIGHTS

Size DN	A (RF)	B (OPEN)	C (CLOSE)	D	Weight (Kg)
40	140	330	284	160	12
50	150	364	309	160	13.5
65	170	412	341	160	16
80	180	482	396	180	24
100	190	563	458	200	40
125	200	660	530	250	55
150	210	752	595	250	68
200	230	970	762	300	108
250	250	1161	903	360	168

DIN 3202 F5 PN16 Fig No.51016

DIMENSIONS AND WEIGHTS

Size DN	A (RF)	B (OPEN)	C (CLOSE)	D	Weight (Kg)
40	240	330	284	160	13.5
50	250	365	310	180	15
65	270	468	397	180	18
80	280	492	406	200	27
100	300	572	467	250	43
125	325	678	548	280	58
150	350	791	634	300	72
200	400	995	787	360	112
250	450	1193	935	400	187

Other Sizes:On request

RF:Flanged

AVAILABLE OPTIONS:

STRUCTURE	End,Connection: Flange Raised Face...
	Seat Rings: Threaded(Renewable)
	Operation: Handwheel,Gear,Electric,Pneumatic,Hydraulic...
MATERIALS	Body: Gray Cast Iron, Ductile Iron...
	Trims: Brass, Cast Manganese Bronze, Stainless Steel...

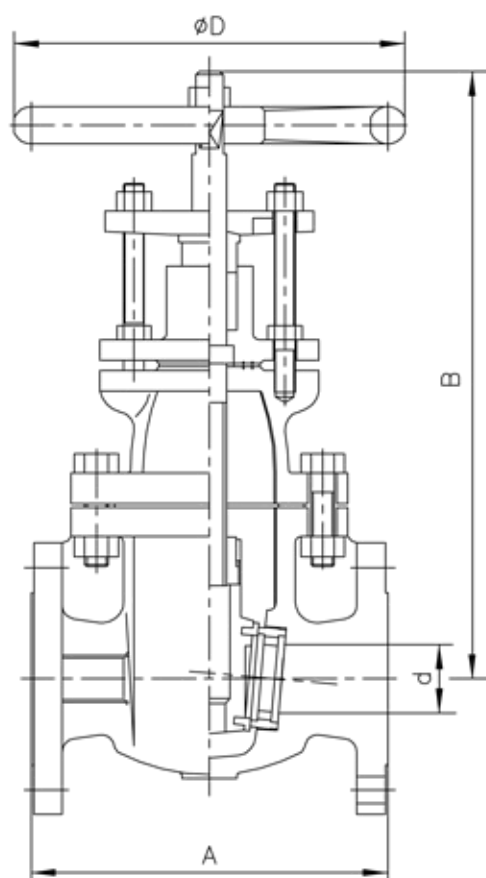


NON-RISING STEM WEDGE GATE VALVES-PN16

Size range: DN50 to DN600

STANDARDS:

Design	BS 5150
Test	BS 6755
Face to Face Dimensions	BS 5150
End Flange Dimensions	BS 4504



BS5150 PN16 Fig No.51116

DIMENSIONS AND WEIGHTS

Size DN	A (RF)	B	D	Weight (Kg)
50	178	309	180	14.5
65	190	324	180	17
80	203	370	200	25
100	229	430	200	42
125	254	475	240	57
150	267	538	240	70
200	292	678	350	110
250	330	750	400	185
300	356	880	450	260
350	381	940	508	320
400	406	1080	558	490
450	432	1180	610	548
500	457	1380	640	678
600	508	1460	640	920

Other Sizes: On request

RF: Flanged

AVAILABLE OPTIONS:

STRUCTURE	End, Connection: Flange Raised Face...
	Seat Rings: Threaded (Renewable)
	Operation: Handwheel, Gear, Electric, Pneumatic, Hydraulic...
MATERIALS	Body: Gray Cast Iron, Ductile Iron...
	Trims: Copper Alloy, Stainless Steel, Carbon Steel...

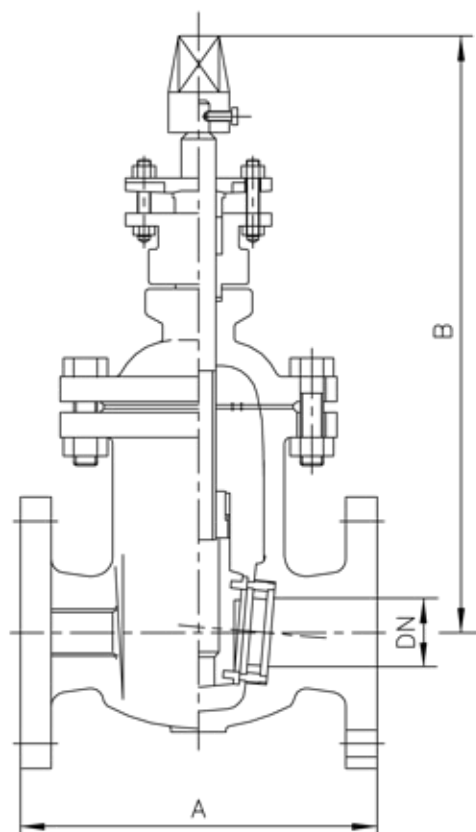


NON-RISING STEM WEDGE GATE VALVE-BS1218

Size range: 2" to 12"

STANDARDS:

Design	BS 1218
Test	BS 1218
Face to Face Dimensions	
End Flange Dimensions	BS10 Table E or Table D



SMZ045T-10 Fig No.51110

DIMENSIONS AND WEIGHTS

Size DN	d	A (FF)	B	Weight (Kg)
2"	51	216	406	18
2½"	64	228.5	422	24
3"	76	228.5	441	30
4"	102	254	498	41
5"	127	266.5	552	55
6"	152	279.5	622	68
8"	203	317.5	724	110
10"	254	335.6	838	155
12"	305	381	940	230

Other Sizes:On request

FF: Flat Flanged

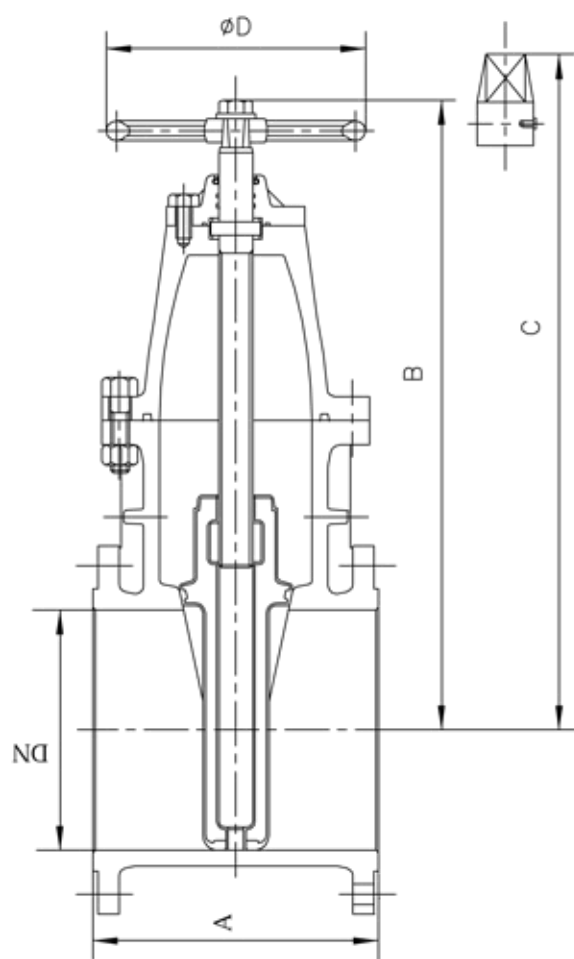
AVAILABLE OPTIONS:

STRUCTURE	End,Connection: Flange Flat Face...
	Seat Rings: Threaded(Renewable)
	Operation: Handwheel,Gear,Electric,Pneumatic,Hydraulic...
MATERIALS	Body: Gray Cast Iron, Ductile Iron...
	Trims: Stainless Steel, Brass, Cast Brass...



RESILIENT-SEATED GATE VALVES-PN10,PN16

Size range: DN50 to DN300



STANDARDS:

Design	BS 5150/5163, DIN 3352, ANSI/AWWA C509
Test	BS 5150/5163, DIN 3352, ANSI/AWWA C509
Face to Face Dimensions	DIN 2532/BS 2080/ANSI B16.10
End Flange Dimensions	BS4504/DIN 2532/ ANSI B16.5

PN10 Fig No.51110-RS
DIMENSIONS AND WEIGHTS

Size DN	A BS 5150/5163	A DIN 3352	B	C	D	Weight (Kg)
50	178	250	278	368	200	13
65	190	270	302	392	200	16.5
80	203	280	339	429	240	24.5
100	229	300	377	467	240	41
125	254	325	430	540	285	55
150	267	350	497	607	300	67
200	292	400	600	710	360	107
250	330	450	711	820	400	165
300	356	500	796	906	450	263

PN16 Fig No.51116-RS
DIMENSIONS AND WEIGHTS

Size DN	A BS 5150/5163	A DIN 3352	A ANSI/AWWA C509	B	C	D	Weight (Kg)
50	178	250	178	278	368	200	13.5
65	190	270	190	302	392	200	17
80	203	280	203	339	429	240	25.5
100	229	300	229	377	467	240	42
125	254	325	254	430	540	285	57
150	267	350	267	497	607	300	69
200	292	400	292	600	710	360	110
250	330	450	330	711	820	400	168
300	356	500	356	796	906	450	270

Other Sizes: On request

RF: Flanged

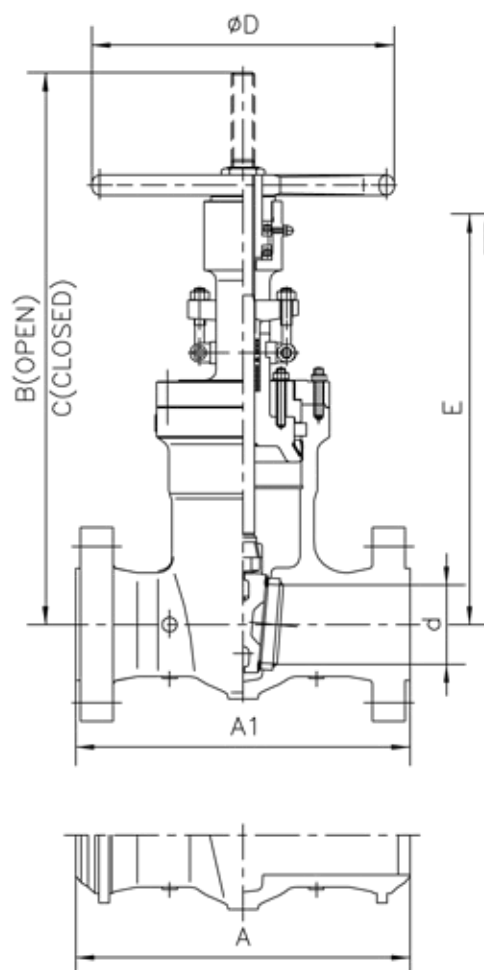
AVAILABLE OPTIONS:

STRUCTURE	End, Connection: Flange Raised Face...
	Seat Rings: Threaded (Renewable)
	Operation: Handwheel, Gear, Electric, Pneumatic, Hydraulic...
MATERIALS	Body: Gray Cast Iron, Ductile Iron...
	Trims: NBR Coated Cast Iron, Ductile, Stainless Steel, Brass...



GATE VALVES—CLASS 600#

Size range: 2" to 30"



STANDARDS:

Design	ANSI B16.34 & API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5
Butt-Weld Ends	ANSI B16.25

Class 600# FIG NO. 5600PS
DIMENSIONS AND WEIGHTS

Size inch	d	A1 (RF)	A (BW)	B (OPEN)	C (CLOSE)	D	E	Weight (Kg)(BW)
2"	51	292	178	407	345	200		17
3"	76	356	254	498	415	250		27
4"	102	432	305	580	470	300		42
6"	152	559	457	790	635	500		100
8"	200	660	584	993	800	660		190
10"	248	787	711	1182	940		985	300
12"	298	838	813	1465	1175		1215	520
14"	327	889	889	1625	1307		1352	690
16"	375	991	991	1820	1458		1502	915
18"	419	1092	1092	1966	1566		1661	1200
20"	464	1194	1194	2240	1800		1885	1630
24"	559	1397	1397	2530	2000		2075	2470
30"	695	1651	1651	3165	2500		2575	5250

Other Sizes: On request

BW: Butt Weld

Sizes 10" and larger the use of gear actuator is recommended

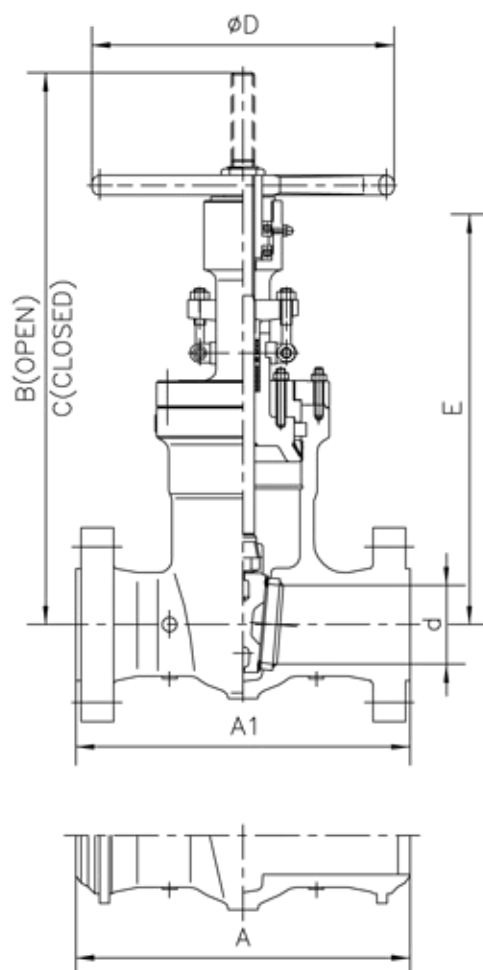
AVAILABLE OPTIONS:

STRUCTURE	End, Connection:	Flange Raised Face, Butt Weld, RTJ...
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...



GATE VALVES—CLASS 900#

Size range: 2" to 24"



STANDARDS:

Design	ANSI B16.34 & API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5
Butt-Weld Ends	ANSI B16.25

Class 900# FIG NO. 5900PS

DIMENSIONS AND WEIGHTS

Size inch	d	A1 (RF)	A (BW)	B (OPEN)	C (CLOSE)	D	E	Weight (Kg)(BW)
2"	47	368	216	424	365	300		28
3"	73	381	305	557	477	400		50
4"	98	457	356	667	570	450		80
6"	146	610	508	868	720	560		175
8"	191	737	660	1236	1026		1071	350
10"	238	838	787	1340	1110		1155	475
12"	282	965	914	1487	1217		1257	650
14"	311	1029	991	1620	1310		1385	900
16"	356	1130	1092	1840	1480		1555	1300
18"	400	1219	1219	2050	1645		1730	1900
20"	445	1321	1321	2300	1840		1925	2600
24"	533	1549	1549	2850	2290		2370	4800

Other Sizes: On request

BW: Butt Weld

Sizes 8" and larger the use of gear actuator is recommended

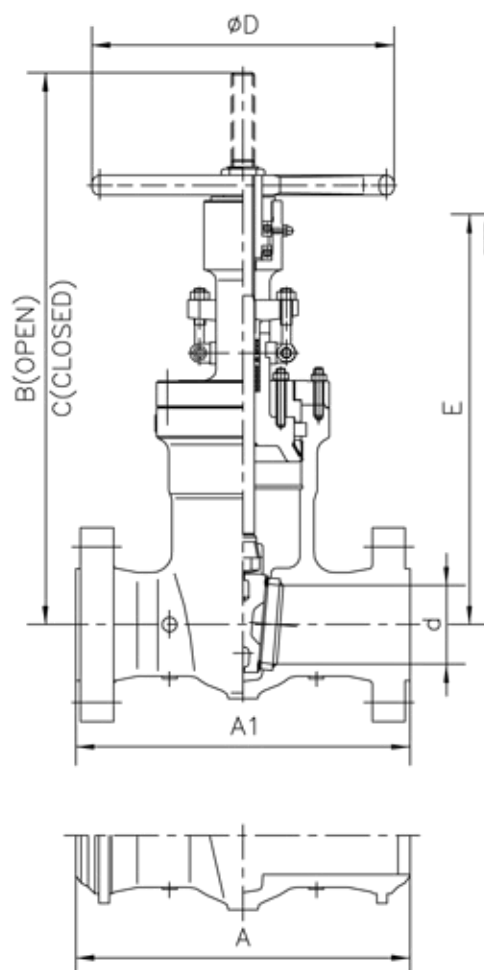
AVAILABLE OPTIONS:

STRUCTURE	End, Connection:	Flange Raised Face, Butt Weld, RTJ...
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...



GATE VALVES—CLASS 1500#

Size range: 2" to 24"



STANDARDS:

Design	ANSI B16.34 & API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5
Butt-Weld Ends	ANSI B16.25

Class 1500# FIG 51500 PS

DIMENSIONS AND WEIGHTS

Size inch	d	A1 (RF)	A (BW)	B (OPEN)	C (CLOSE)	D	E	Weight (Kg)(BW)
2"	47	368	216	424	365	350		28
3"	73	470	305	557	477	450		50
4"	92	546	406	667	570	450		86
6"	136	705	559	927	785		835	215
8"	178	832	711	1175	995		1045	450
10"	222	991	864	1424	1206		1261	675
12"	263	1130	991	1667	1412		1459	1070
14"	289	1257	1067	1803	1520		1595	1410
16"	330	1384	1194	2015	1688		1783	2100
18"	371	1537	1346	2230	1860		1935	3050
20"	476	1664	1473	2420	2012		2087	3800
24"	498	1943	1753	3275	2730		2815	7600

Other Sizes: On request

BW: Butt Weld

Sizes 6" and larger the use of gear actuator is recommended

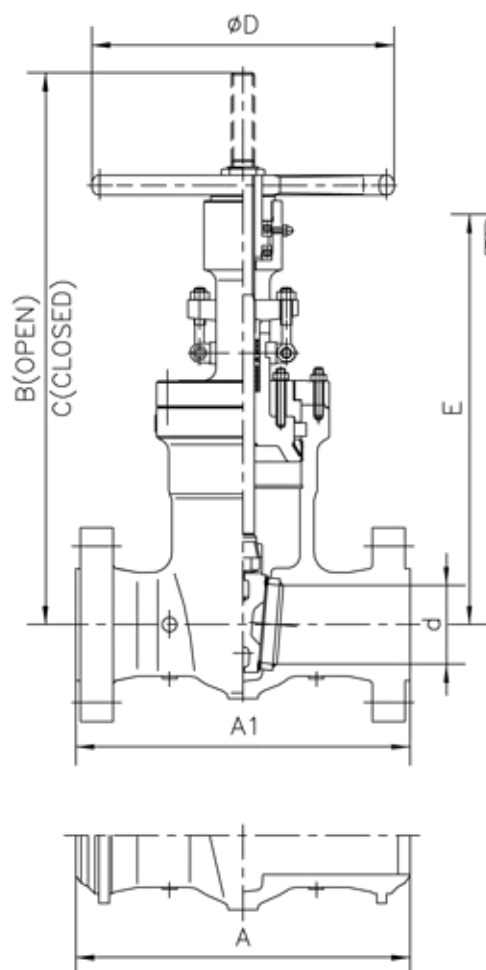
AVAILABLE OPTIONS:

STRUCTURE	End, Connection:	Flange Raised Face, Butt Weld, RTJ...
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...



GATE VALVES—CLASS 2500#

Size range: 2" to 20"



STANDARDS:

Design	ANSI B16.34 & API 600
Test	API 598
Face to Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.5
Butt-Weld Ends	ANSI B16.25

Class 2500# FIG 52500 PS
DIMENSIONS AND WEIGHTS

Size inch	d	A1 (RF)	A (BW)	B (OPEN)	C (CLOSE)	D	E	Weight (Kg)(BW)
2"	38	451	279	450	400	350		37
3"	57	578	368	623	330	500		75
4"	73	673	457	718	625	600		160
6"	111	914	610	1043	908		953	410
8"	146	1022	762	1400	1185		1285	820
10"	184	1270	914	1690	1472		1325	1421
12"	219	1422	1041	1910	1654		1729	2140
14"	241		1118	2190	1913		1988	3170
16"	276		1245	2410	2088		2163	4710
18"	311		1397	2800	2425		2520	6275
20"	343		1549	3070	2660		2755	7970

Other Sizes: On request

BW: Butt Weld

Sizes 6" and larger the use of gear actuator is recommended

AVAILABLE OPTIONS:

STRUCTURE	End, Connection:	Flange Raised Face, Butt Weld, RTJ...
	Seat Rings:	Threaded (Renewable), Welded
	Operation:	Handwheel, Gear, Electric, Pneumatic, Hydraulic...
MATERIALS	Body:	WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C...
	Trims:	13%Cr, 304, 304L, 316, 316L, 321, 347, F-51, Monel...