

FLANGED GATE, GLOBE & CHECK VALVES

FNW[™]



4120 NE Columbia Blvd. • Portland, Oregon USA 97211
Phone: 503-287-8383 • Fax: 503-281-9677 • www.fnw.com

INDEX

Pressure/Temperature Ratings.....	3
Options & Accessories	3

Carbon Steel Valves

Fig No	Type	
551	150# OS&Y Gate Valve	4
552	300# OS&Y Gate Valve	5
561	150# Globe Valve	6
562	300# Globe Valve	7
571	150# Swing Check Valve	8
572	300# Swing Check Valve	9

Stainless Steel Valves

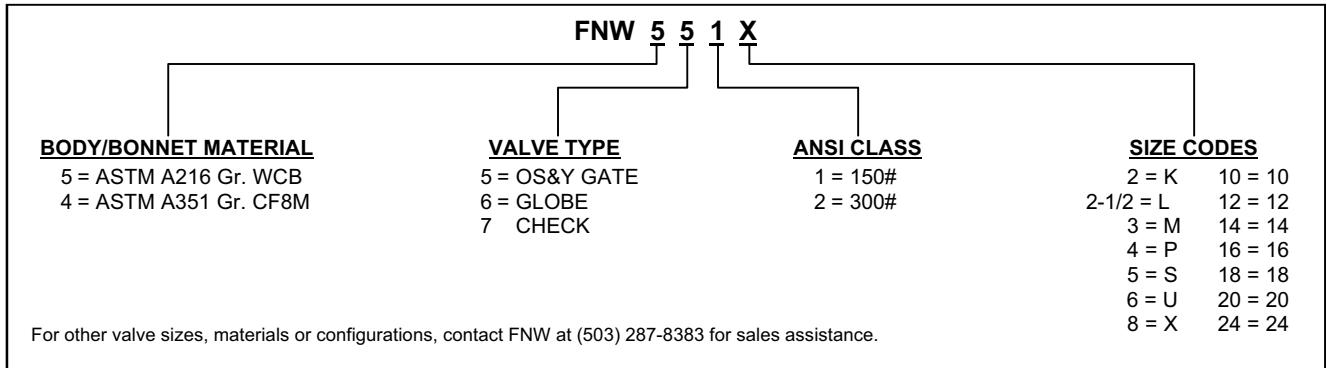
Fig No	Type	
451	150# OS&Y Gate Valve	10
452	300# OS&Y Gate Valve	11
461	150# Globe Valve	12
462	300# Globe Valve	13
471	150# Swing Check Valve	14
472	300# Swing Check Valve	15

OPTIONS & ACCESSORIES

FNW Valve Company offers many options and modifications for their cast steel valves. These include, but are not limited to:

- **By-Passes**
A By-Pass is primarily used to equalize pressure between the valve inlet and outlet before opening the main valve. Equalizing pressure makes opening the main valve easier, especially on valves with a high differential pressure. In high temperature applications, a by-pass allows preheating of the downstream line to lessen the shock of thermal expansion.
- **Actuation & Accessories**
FNW Valve can supply an assortment of actuation types and accessories including ratchets, chain wheels, square drive nuts, gear-operators, pneumatic and hydraulic cylinders, and motor operators. We can also supply accessories ranging from solenoids, position switches, and positioners, to network controls and valve monitors.
- **Packing Options**
Different applications can have different needs. FNW Valve offers packing materials for various pH and temperature requirements.
- **Stem Extensions & Floor Stands**
For remote applications, custom stem extensions and non-rising stem (NRS) adapters are available in carbon and stainless steel. Also available are floor stands made to order to your specifications.

FIGURE NUMBER MATRIX



STANDARDS

FNW cast steel gate, globe, and check valves are manufactured according to the following standards:

- Pressure/Temperature Rating per ANSI B16.34
- Flange Dimensions per ANSI B16.5
- Face to Face Dimensions per ANSI B16.10
- Carbon Steel Valves Designed to API 600
- Stainless Steel Valves Designed to API 603
- Pressure Tested to API 598

PRESSURE/TEMPERATURE RATINGS

Materials: A105, A216WCB		
Valve Class	150	300
Temperature (°F)	Working Pressure (PSI)	
-20° to 100°	285	740
-20° to 200°	260	675
-20° to 300°	230	655
-20° to 400°	200	635
-20° to 500°	170	600
-20° to 600°	140	550
-20° to 650°	125	535
-20° to 700°	110	535
-20° to 750°	95	505
-20° to 800°	80	410
-20° to 850°	65	270
-20° to 900°	50	170
-20° to 950°	35	105
-20° to 1000°	20	50
Hydrostatic Test Pressure (PSIG)		
Shell	450	1125
Seat	315	815

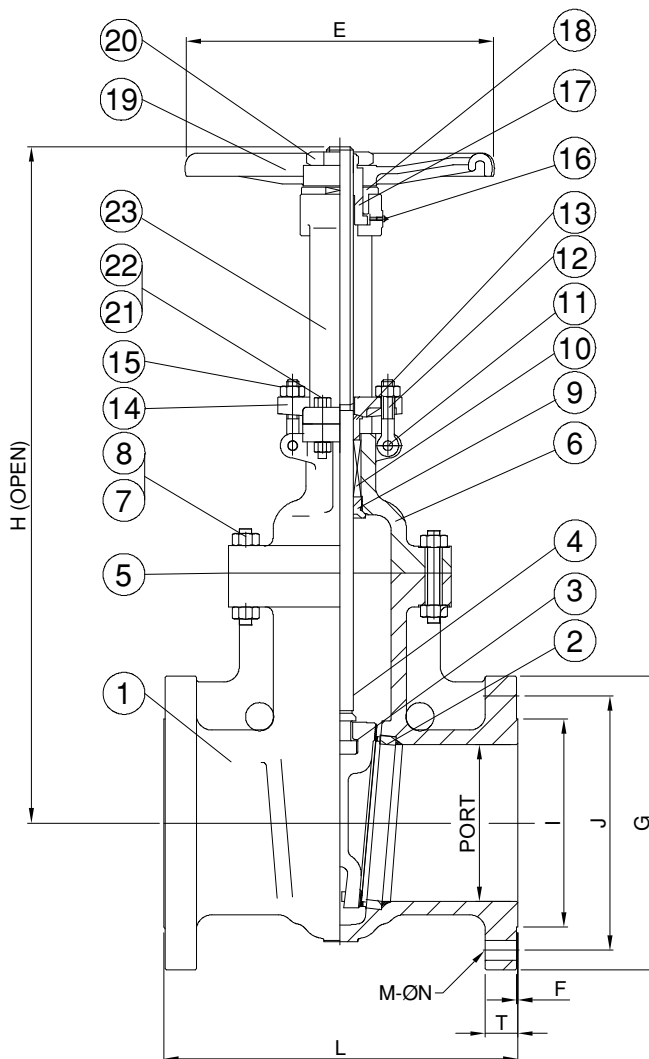
Materials: A351-CF8M, A182-F316					
Valve Class	150	300	Valve Class	150	300
Temperature (°F)	Working Pressure (PSI)		Temperature (°F)	Working Pressure (PSI)	
-20° to 100°	275	720	950°	30	385
200°	240	620	1000°	20	365
300°	215	560	1050 ⁽⁴⁾	20	360
400°	195	515	1100 ⁽⁴⁾	20	325
500°	170	480	1150 ⁽⁴⁾	20	275
600°	140	450	1200 ⁽⁴⁾	20	205
650°	125	445	1250 ⁽⁴⁾	20	180
700°	110	430	1300 ⁽⁴⁾	20	140
750°	95	425	1350 ⁽⁴⁾	20	105
800°	80	415	1400 ⁽⁴⁾	20	75
850°	65	405	1450 ⁽⁴⁾	20	60
900°	50	395	1500 ⁽⁴⁾	10	40
Hydrostatic Test Pressure (PSIG)					
Shell	425	1100			
Seat	305	795			

1. Pressures and temperatures listed are the maximum of the contained fluid. The pressures and temperatures listed are based on shell material only. Consideration must also be given to the bolting, trim, gasket, and packing material. For the pressure and temperature ratings for materials not given in the tables above, and for ratings for special class valves (available on special order), see ANSI B16.34.
2. A valve used under the jurisdiction of the ASTM Boiler and Pressure Vessel Code, the ANSI Code for Pressure Piping, or for Government Regulations is subject to any limitation of that code or regulation.
3. Materials shall not be used beyond the maximum temperature in the rating table.
4. Applies to weld end valves only. Flanged end valve ratings terminate at 1000° F (538° C).

150# Carbon Steel OS&Y Gate Valve

Standard Materials

NO	PART NAME	MATERIAL
1	Body	ASTM A216 Gr. WCB
2	Seat Ring	ASTM A105 + Hard Faced
3	Disc	ASTM A216 Gr. WCB + 13% CR Faced
4	Stem	ASTM A182 F6
5	Gasket	Soft Iron + Graphite
6	Bonnet	ASTM A216 Gr. WCB
7	Bonnet Bolt Nut	ASTM A194 Gr. 2H
8	Bonnet Bolt	ASTM A193 Gr. B7
9	Bonnet Bushing	ASTM A276 Type 410
10	Gland Packing	Braided Graphite + DF Graphite Ring
11	Eye Bolt Pins	ASTM A105
12	Gland Eye Bolts	ASTM A307 B
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 Gr. WCB
15	Eye Bolt Nut	ASTM A194 Gr. 2H
16	Grease Nipple	Carbon Steel
17	Yoke Sleeve	ASTM A439 Gr. D-2
18	Retaining Nut	Carbon Steel
19	Handwheel	Malleable Iron
20	Handwheel Nut	Carbon Steel
21	Yoke Pad Bolt	ASTM A193 Gr. B7 (size 14 - 24 inch)
22	Yoke Pad Bolt Nut	ASTM A194 Gr. 2H (size 14 - 24 inch)
23	Yoke	ASTM A216 Gr. WCB (size 14 - 24 inch)



NOTES:

Design per API 600
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

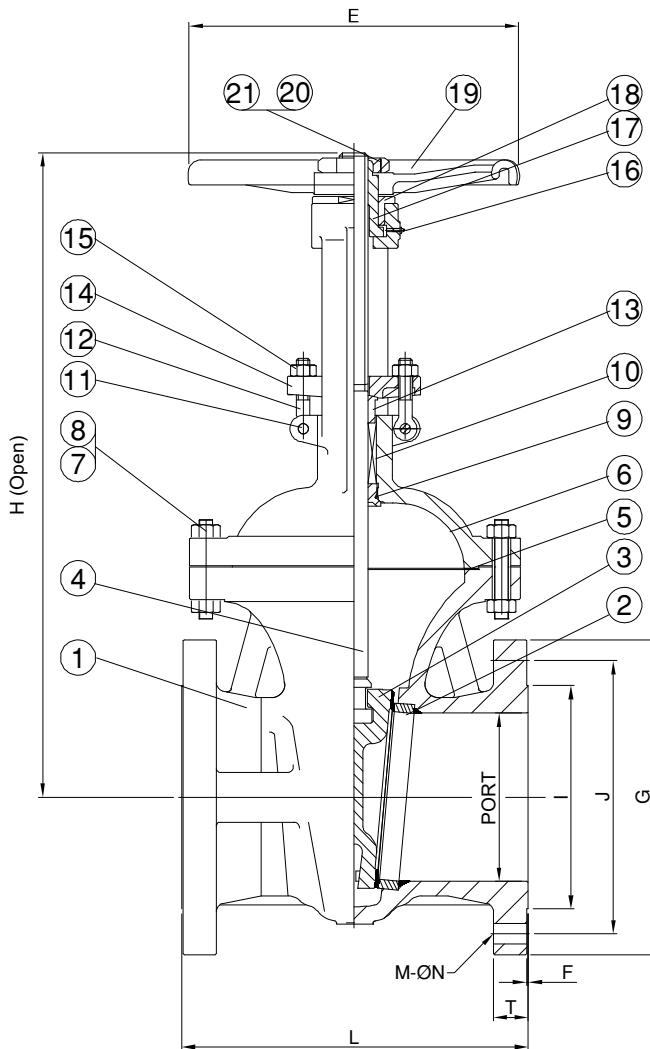
Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
Port	1.969	2.559	3.150	3.937	5.906	7.874	9.843	11.811	13.780	15.748	17.717	19.685	23.622	
L	7.008	7.480	7.992	9.016	10.512	11.496	12.992	14.016	15.000	15.984	17.008	17.992	20.000	
H	15.276	17.480	19.567	23.031	30.118	37.953	45.472	53.622	60.748	68.425	77.126	87.165	102.320	
E*	7.874	7.874	9.843	9.843	11.811	13.780	15.748	17.717	19.685	*	*	*	*	
Flange Dimensions	F	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
	G	6.0	7.0	7.5	9.0	11.0	13.5	16.0	19.0	21.0	23.5	25.0	27.5	
	I	3.62	4.12	5.00	6.19	8.50	10.62	12.75	15.00	16.25	18.50	21.00	23.00	
	J	4.75	5.50	6.00	7.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	
	T	0.75	0.88	0.94	0.94	1.00	1.12	1.19	1.25	1.38	1.44	1.56	1.69	
	M	4	4	4	8	8	8	12	12	12	16	16	20	20
	N	0.75	0.75	0.75	0.75	0.88	0.88	1.00	1.00	1.12	1.12	1.25	1.25	1.38
Wt. (LBS)	40	62	75	115	194	318	435	657	895	1156	1588	2463	3232	

* 16" & Larger Valves include Gear Operator

300# Carbon Steel OS&Y Gate Valve

Standard Materials



NO	PART NAME	MATERIAL
1	Body	ASTM A216 Gr. WCB
2	Seat Ring	ASTM A105 + Hard Faced
3	Disc	ASTM A216 Gr. WCB + 13% CR Faced
4	Stem	ASTM A182 F6
5	Gasket	Soft Iron + Graphite
6	Bonnet	ASTM A216 Gr. WCB
7	Bonnet Bolt Nut	ASTM A194 Gr. 2H
8	Bonnet Bolt	ASTM A193 Gr. B7
9	Bonnet Bushing	ASTM A276 Type 410
10	Gland Packing	Braided Graphite + DF Graphite Ring
11	Eye Bolt Pins	Carbon Steel
12	Gland Eye Bolts	ASTM A193 Gr. B7
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 Gr. WCB
15	Eye Bolt Nut	ASTM A194 Gr. 2H
16	Grease Nipple	Carbon Steel
17	Yoke Sleeve	ASTM A439 Gr. D-2
18	Retaining Nut	Carbon Steel
19	Handwheel	Malleable Iron
20	Screw	Carbon Steel
21	Handwheel Nut	Carbon Steel

NOTES:
 Design per API 600
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

Dimensions (Inches)

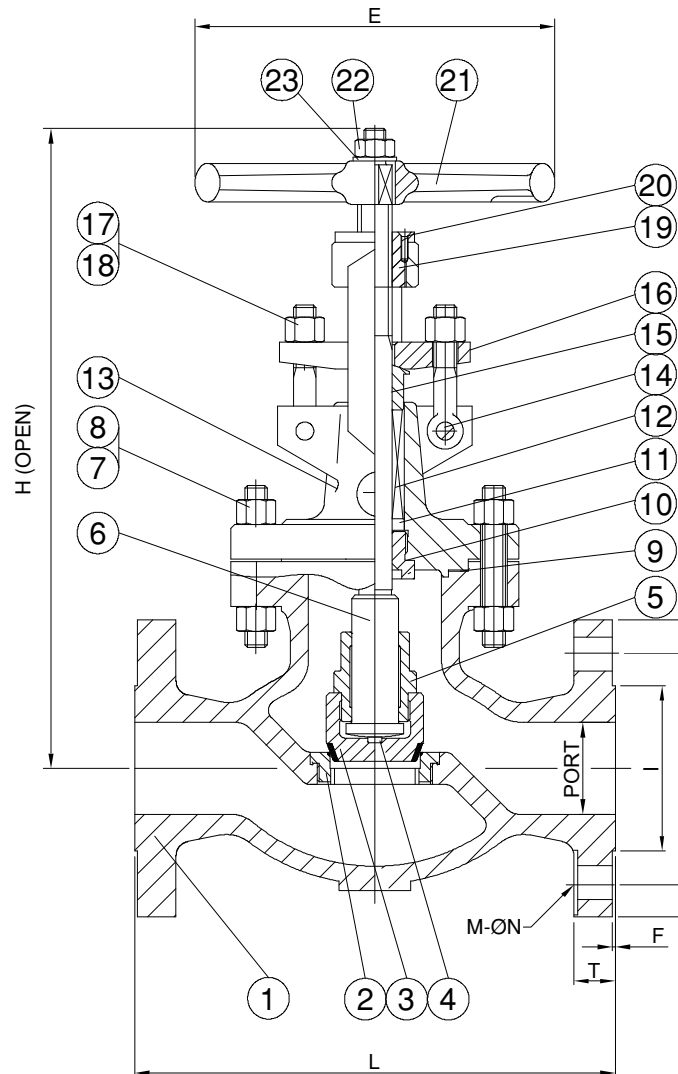
SIZE	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Port	1.969	2.559	3.150	3.937	5.906	7.874	9.843	11.811	13.779	15.748	17.716	19.685	23.622
L	8.504	9.488	11.142	12.008	15.866	16.496	17.992	19.764	30.000	32.992	35.984	39.016	45.000
H	16.614	20.157	20.551	24.213	31.654	39.449	48.386	59.528	64.764	72.480	76.496	84.803	100.512
E	7.874	7.874	9.843	11.811	13.780	15.748	17.717	19.685	23.622	-	-	-	-
Flange Dimensions	F	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
	G	6.50	7.50	8.25	10.00	12.50	15.00	17.50	20.50	23.00	25.50	28.00	30.50
	I	3.62	4.12	5.00	6.19	8.50	10.62	12.75	15.00	16.25	18.50	21.00	23.00
	J	5.00	5.88	6.62	7.88	10.62	13.00	15.25	17.75	20.25	22.50	24.75	27.00
	T	0.88	1.00	1.12	1.25	1.44	1.62	1.88	2.00	2.12	2.25	2.38	2.50
	M	8	8	8	8	12	12	16	16	20	20	24	24
	N	0.75	0.88	0.88	0.88	0.88	1.00	1.12	1.25	1.25	1.38	1.38	1.38
Wt. (LBS)	53	97	115	168	322	481	776	1041	1734	2227	2657	3792	5765

* 16" & Larger Valves include Gear Operator

150# Carbon Steel Globe Valve

Standard Materials

NO	PART NAME	MATERIAL
1	Body	ASTM A216 Gr. WCB
2	Seat Ring	ASTM A105 + Hard Faced
3	Disc	ASTM A216 Gr. WCB + 13% CR Faced
4	Disc Thrust Plate	ASTM A276 Type 410
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 F6
7	Bonnet Bolt	ASTM A193 Gr. B7
8	Bonnet Bolt Nut	ASTM A194 Gr. 2H
9	Gasket	Soft Iron + Graphite
10	Bonnet Bushing	ASTM A276 Type 410
11	Gasket Ring	ASTM A276 Type 410
12	Packing	Braided Graphite + DF Graphite Ring
13	Bonnet	ASTM A216 Gr. WCB
14	Eye Bolt Pins	Carbon Steel
15	Gland	ASTM A276 Type 410
16	Gland Flange	ASTM A216 Gr. WCB
17	Gland Eye Bolts	ASTM A307 Gr. B
18	Eye Bolt Nuts	ASTM A194 Gr. 2H
19	Yoke Sleeve	ASTM A439 Gr. D2
20	Screw	Carbon Steel
21	Handwheel	Malleable Iron
22	Handwheel Nut	Carbon Steel
23	Backing Ring	Carbon Steel



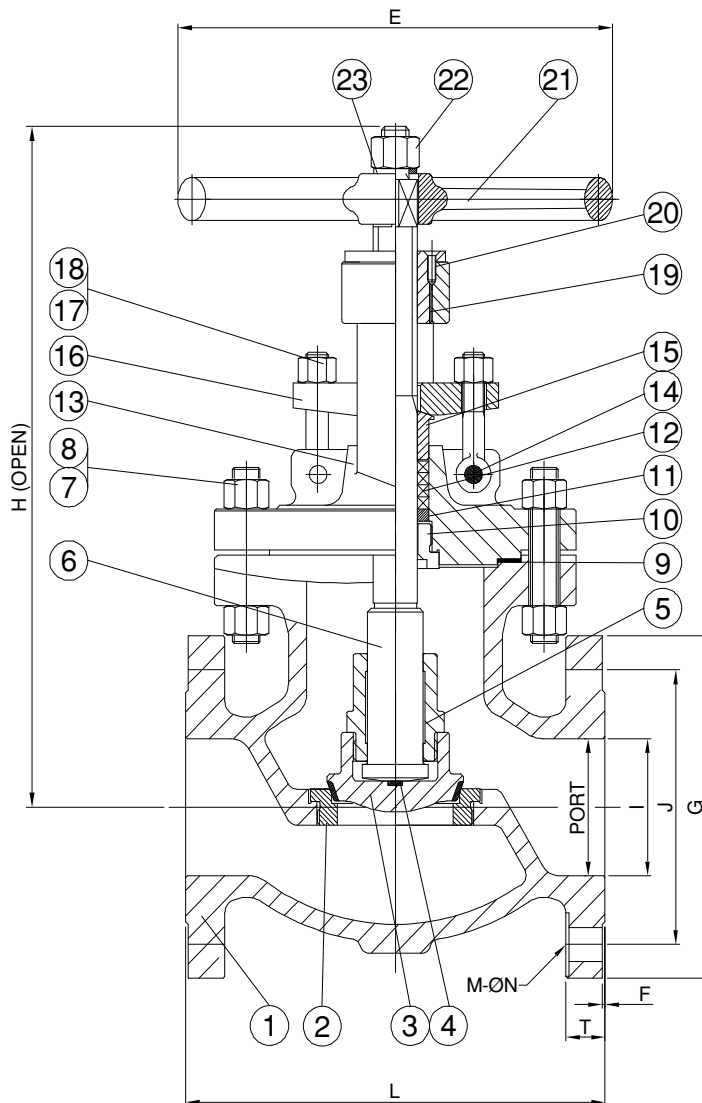
NOTES:

Design per API 600
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"	10"	12"	
Port	1.969	2.520	3.150	3.937	5.906	7.874	9.843	11.811	
L	7.992	8.504	9.488	11.496	15.984	19.488	24.488	27.520	
H	13.780	14.449	15.945	17.323	20.197	24.016	28.740	36.339	
E	7.874	9.842	9.843	11.811	13.780	17.717	17.717	25.197	
Flange Dimensions	F	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
	G	6.0	7.0	7.5	9.0	11.0	13.5	16.0	19.0
	I	3.62	4.13	5.00	6.19	8.50	10.62	12.75	15.00
	J	4.75	5.50	6.00	7.50	9.50	11.75	14.25	17.00
	T	0.75	0.89	0.94	0.94	1.00	1.12	1.19	1.25
	M	4	4	4	8	8	8	12	12
	N	0.75	0.75	0.75	0.75	0.88	0.88	1.00	1.00
Wt. (LBS)	49	64	93	133	223	355	679	904	

300# Carbon Steel Globe Valve



Standard Materials

NO	PART NAME	MATERIAL
1	Body	ASTM A216 Gr. WCB
2	Seat Ring	ASTM A105 + Hard Faced
3	Disc	ASTM A216 Gr. WCB + 13% CR Faced
4	Disc Thrust Plate	ASTM A276 Type 410
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 F6
7	Bonnet Bolt	ASTM A193 Gr. B7
8	Bonnet Bolt Nut	ASTM A194 Gr. 2H
9	Gasket	Soft Iron + Graphite
10	Bonnet Bushing	ASTM A276 Type 410
11	Gasket Ring	ASTM A276 Type 410
12	Packing	Braided Graphite + DF Graphite Ring
13	Bonnet	ASTM A216 Gr. WCB
14	Eye Bolt Pins	Carbon Steel
15	Gland	ASTM A276 Type 410
16	Gland Flange	ASTM A216 Gr. WCB
17	Gland Eye Bolts	ASTM A193 Gr. B7
18	Eye Bolt Nuts	ASTM A194 Gr. 2H
19	Yoke Sleeve	ASTM A439 Gr. D2
20	Screw	Carbon Steel
21	Handwheel	Malleable Iron
22	Handwheel Nut	Carbon Steel
23	Backing Ring	Carbon Steel

NOTES:
 Design per API 600
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

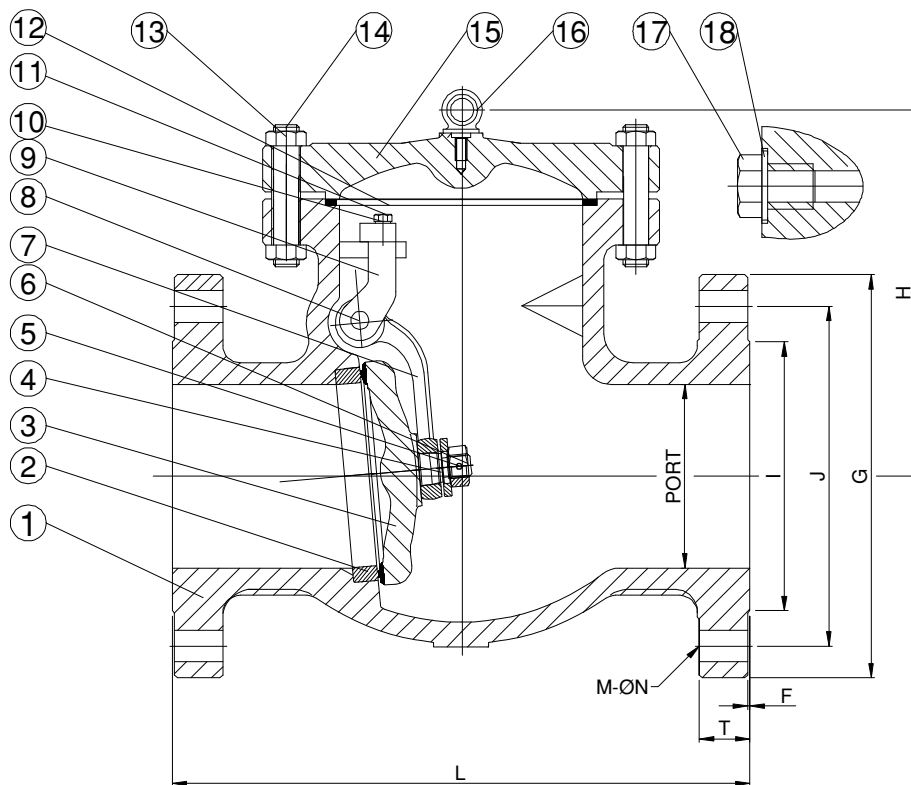
Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"
Port	1.969	2.559	3.150	3.937	5.906	7.874
L	10.512	11.496	12.520	14.016	17.480	22.008
H	13.740	14.961	16.142	20.630	22.677	36.535
E	7.874	9.843	11.811	13.780	17.717	22.047
Flange Dimensions	F	0.06	0.06	0.06	0.06	0.06
	G	6.50	7.50	8.25	10.00	15.00
	I	3.62	4.12	5.00	6.19	8.50
	J	5.00	5.88	6.62	7.88	10.62
	T	0.88	1.00	1.12	1.25	1.44
	M	8	8	8	8	12
	N	0.75	0.88	0.88	0.88	0.88
Wt. (LBS)	69	89	128	190	331	876

150# Carbon Steel Swing Check Valve

NOTES:

Design per API 600
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598



Standard Materials

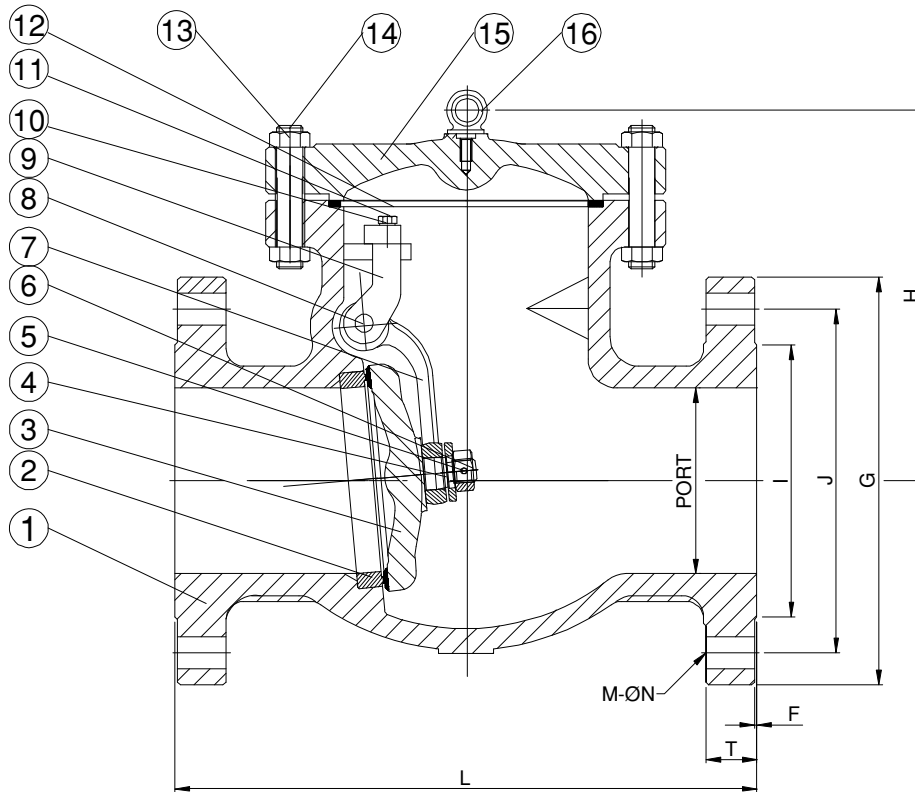
NO	PART NAME	MATERIAL
1	Body	ASTM A216 Gr. WCB
2	Seat Ring	316SS
3	Disc	ASTM A216 Gr. WCB + 13% CR Faced
4	Disc Washer	Carbon Steel
5	Pin	ASTM A276 Type 410
6	Disc Nut	Carbon Steel
7	Hinge	ASTM A216 Gr. WCB
8	Hinge Pin	ASTM A276 Type 410
9	Yoke	ASTM A216 Gr. WCB (size 2 - 12 inch)

NO	PART NAME	MATERIAL
10	Washer	Carbon Steel (size 2 - 12 inch)
11	Hex Bolt	Carbon Steel (size 2 - 12 inch)
12	Gasket	Soft Iron + Graphite
13	Cover Bolt	ASTM A193 Gr. B7
14	Cover Bolt Nut	ASTM A194 Gr. 2H
15	Cover	ASTM A216 Gr. WCB
16	Eye Bolt	ASTM A181
17	Plug	Carbon Steel (size 14 - 24 inch)
18	Spring Washer	Carbon Steel (size 14 - 24 inch)

Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
Port	1.969	2.559	3.150	3.937	5.906	7.874	9.843	11.811	13.780	15.748	17.717	19.685	23.268	
L	7.992	8.504	9.488	11.496	15.984	19.488	24.488	27.480	30.984	34.016	38.504	38.504	50.984	
H	6.496	7.008	7.323	8.543	10.472	12.520	14.488	15.984	17.008	19.016	23.622	25.984	29.134	
Flange Dimensions	F	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
	G	6.0	7.0	7.5	9.0	11.0	13.5	16.0	19.0	21.0	23.5	25.0	32.0	
	I	3.620	4.120	5.000	6.190	8.500	10.620	12.750	15.000	16.250	18.500	21.000	27.250	
	J	4.750	5.500	6.000	7.500	9.500	11.750	14.250	17.000	18.750	21.250	22.750	29.500	
	T	0.750	0.880	0.940	0.940	1.000	1.120	1.190	1.250	1.380	1.440	1.560	1.690	1.889
	M	4	4	4	8	8	8	12	12	12	16	16	20	20
	N	0.75	0.75	0.75	0.75	0.88	0.88	1.00	1.00	1.12	1.12	1.25	1.25	1.38
Wt. (LBS)	42	58	64	106	170	294	587	765	995	1226	1729	1841	2655	

300# Carbon Steel Swing Check Valve



NOTES:
 Design per API 600
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

Standard Materials

NO	PART NAME	MATERIAL
1	Body	ASTM A216 Gr. WCB
2	Seat Ring	316SS
3	Disc	ASTM A216 Gr. WCB + 13% CR Faced
4	Disc Washer	Carbon Steel
5	Pin	ASTM A276 Type 410
6	Disc Nut	Carbon Steel
7	Hinge	ASTM A216 Gr. WCB
8	Hinge Pin	ASTM A276 Type 410

NO	PART NAME	MATERIAL
9	Yoke	ASTM A216 Gr. WCB
10	Washer	Carbon Steel
11	Hex Bolt	Carbon Steel
12	Gasket	Soft Iron + Graphite
13	Cover Bolt	ASTM A193 Gr. B7
14	Cover Bolt Nut	ASTM A194 Gr. 2H
15	Cover	ASTM A216 Gr. WCB
16	Eye Bolt	ASTM A181

Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"	10"	12"
Port	1.969	2.559	3.150	3.937	5.906	7.874	9.843	11.811
L	10.512	11.496	12.520	14.016	17.480	20.984	24.488	27.992
H	7.008	7.520	8.307	9.685	12.520	14.016	15.512	18.976
Flange Dimensions	F	0.06	0.06	0.06	0.06	0.06	0.06	0.06
	G	6.50	7.50	8.25	10.00	12.50	15.00	20.50
	I	3.62	4.12	5.00	6.19	8.50	10.62	12.75
	J	5.00	5.88	6.62	7.88	10.62	13.00	15.25
	T	0.88	1.00	1.12	1.25	1.44	1.62	1.88
	M	8	8	8	8	12	12	16
	N	0.75	0.88	0.88	0.88	0.88	1.00	1.12
Wt. (LBS)	47	71	95	135	289	470	847	990

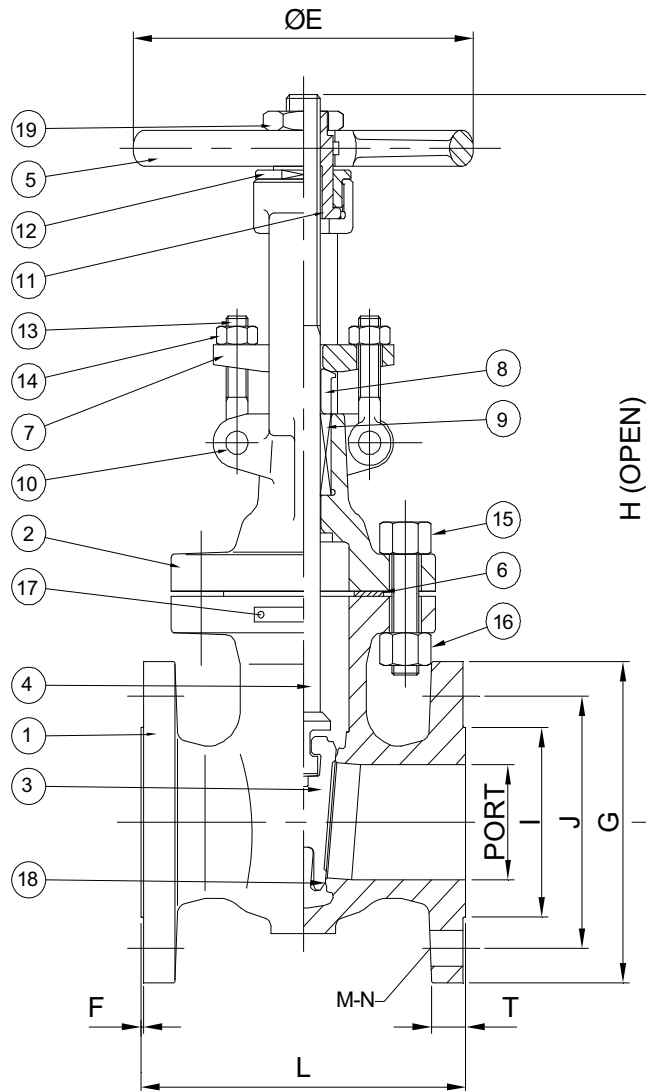
150# Stainless Steel OS&Y Gate Valve

Standard Materials

NO	PART NAME	MATERIAL
1	Body	ASTM A351 Gr. CF8M
2	Bonnet	ASTM A351 Gr. CF8M
3	Disc	ASTM A351 Gr. CF8M
4	Stem	ASTM A182 Gr. F316
5	Handwheel	ASTM A536
6	Gasket	PTFE
7	Gland Flange	ASTM A351 Gr. CF8
8	Gland	ASTM A351 Gr. CF8
9	Gland Packing	PTFE
10	Eye Bolt Pin	ASTM A276 Gr. 304
11	Stem Nut	ASTM A276 Gr. 410
12	Wheel Nut	SS 304
13	Eye Bolt	ASTM A193 Gr. B8
14	Eye Bolt Nut	ASTM A194 Gr. 8
15	Bonnet Bolt	ASTM A193 Gr. B8
16	Bonnet Bolt Nut	ASTM A194 Gr. 8
17	Name Plate	SS 304
18	Seat	ASTM A351 Gr. CF8M (integral)
19	Handwheel Nut	SS 304

NOTES:

Investment Cast Body Up to 8"
 Design per API 603
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

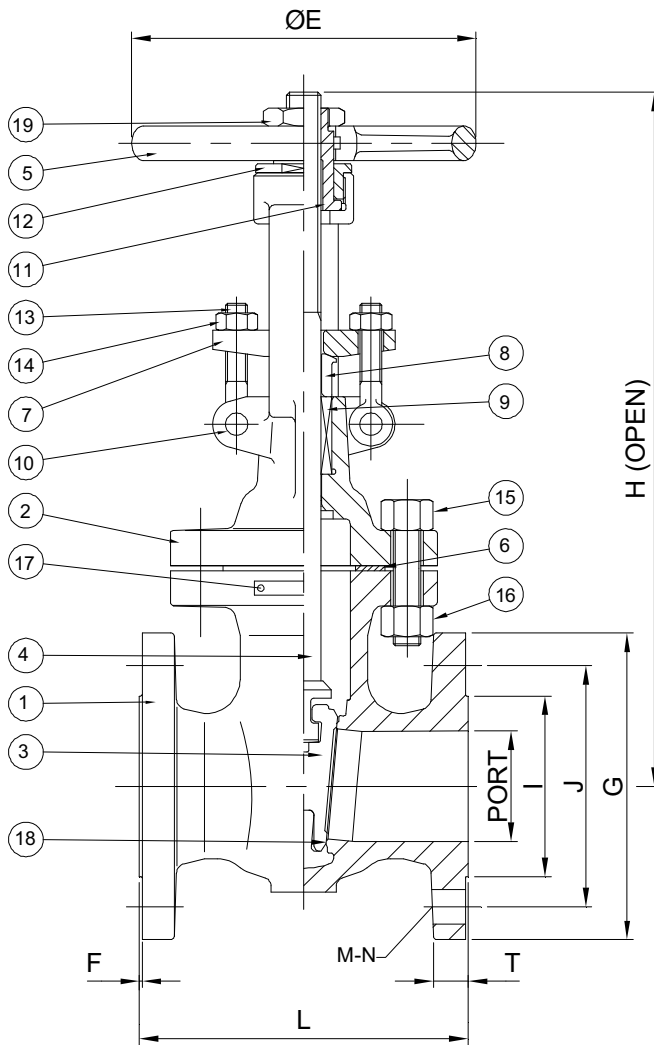


Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"	10"	12"
Port	2	2.5	3	4	6	8	10	12
L	7.008	7.520	7.992	9.016	10.512	11.496	12.992	14.016
H	13.307	15.669	17.913	21.457	29.134	37.126	45.079	53.071
E	5.906	5.906	7.874	9.843	11.811	11.811	13.780	15.748
Flange Dimensions	F	0.063	0.063	0.063	0.063	0.063	0.063	0.063
	G	6	7	7.5	9	11	13.5	16
	I	3.62	4.12	5.00	6.19	8.50	10.62	12.75
	J	4.75	5.50	6.00	7.50	9.50	11.75	14.25
	T	0.62	0.69	0.75	0.94	1.00	1.12	1.19
	M	4	4	4	8	8	8	12
	N	0.75	0.75	0.75	0.75	0.88	0.88	1.00
Wt. (LBS)	35	44	64	84	144	221	313	516

300# Stainless Steel OS&Y Gate Valve

Standard Materials



NO	PART NAME	MATERIAL
1	Body	ASTM A351 Gr. CF8M
2	Bonnet	ASTM A351 Gr. CF8M
3	Disc	ASTM A351 Gr. CF8M
4	Stem	ASTM A182 Gr. F316
5	Handwheel	ASTM A536
6	Gasket	PTFE
7	Gland Flange	ASTM A351 Gr. CF8
8	Gland	ASTM A351 Gr. CF8M
9	Gland Packing	PTFE
10	Eye Bolt Pin	ASTM A276 Gr. 304
11	Stem Nut	ASTM A276 Gr. 410
12	Wheel Nut	SS 304
13	Eye Bolt	ASTM A193 Gr. B8
14	Eye Bolt Nut	ASTM A194 Gr. 8
15	Bonnet Bolt	ASTM A193 Gr. B8
16	Bonnet Bolt Nut	ASTM A194 Gr. 8
17	Name Plate	SS 304
18	Seat	ASTM A351 Gr. CF8M (integral)
19	Handwheel Nut	SS 304

NOTES:
 Investment Cast Body Up to 8"
 Design per API 603
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

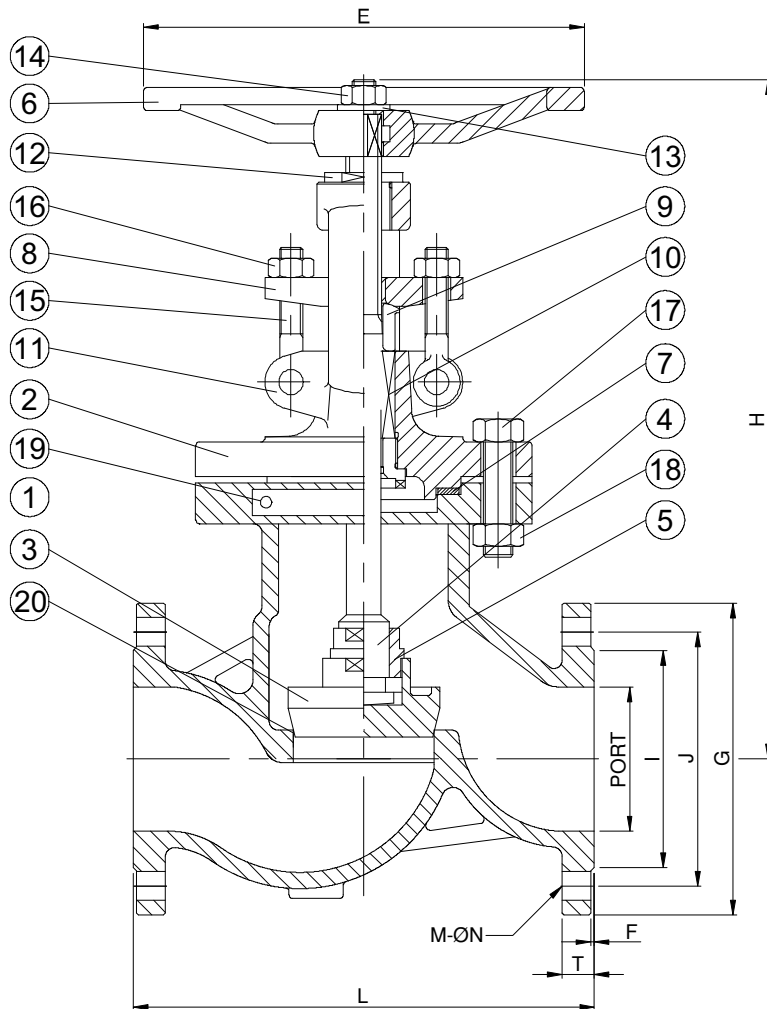
Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"	10"	12"
Port	2	2.5	3	4	6	8	10	12
L	8.504	9.488	11.102	12.008	15.866	16.496	17.992	19.764
H	18.110	20.079	21.654	24.567	33.071	41.063	50.787	62.520
E	7.874	7.874	9.843	9.843	13.780	13.780	17.717	19.685
Flange Dimensions	F	0.063	0.063	0.063	0.063	0.063	0.063	0.063
	G	6.5	7.5	8.25	10	12.5	17.5	20.5
	I	3.62	4.12	5.00	6.19	8.50	10.62	12.75
	J	5.00	5.88	6.62	7.88	10.62	13.00	15.25
	T	0.88	1.00	1.12	1.25	1.44	1.62	1.88
	M	8	8	8	8	12	12	16
	N	0.75	0.88	0.88	0.88	0.88	1.00	1.12
Wt. (LBS)	47	71	91	137	263	386	772	1036

150# Stainless Steel Globe Valve

Standard Materials

NO	PART NAME	MATERIAL
1	Body	ASTM A351 Gr. CF8M
2	Bonnet	ASTM A351 Gr. CF8M
3	Disc	ASTM A351 Gr. CF8M
4	Stem	ASTM A182 Gr. F316
5	Disc Nut	ASTM A276 Gr. 316
6	Handwheel	ASTM A536
7	Gasket	PTFE
8	Gland Flange	ASTM A351 Gr. CF8
9	Gland	ASTM A351 Gr. CF8M
10	Gland Packing	PTFE
11	Eye Bolt Pin	ASTM A276 Gr. 304
12	Stem Nut	ASTM A276 Gr. 410
13	Washer	ASTM A240 Gr. 304
14	Wheel Nut	SS 304
15	Eye Bolt	ASTM A193 Gr. B8
16	Eye Bolt Nut	ASTM A194 Gr. 8
17	Bonnet Bolt	ASTM A193 Gr. B8
18	Bonnet Bolt Nut	ASTM A194 Gr. 8
19	Name Plate	SS 304
20	Seat	ASTM A351 Gr. CF8M (integral)



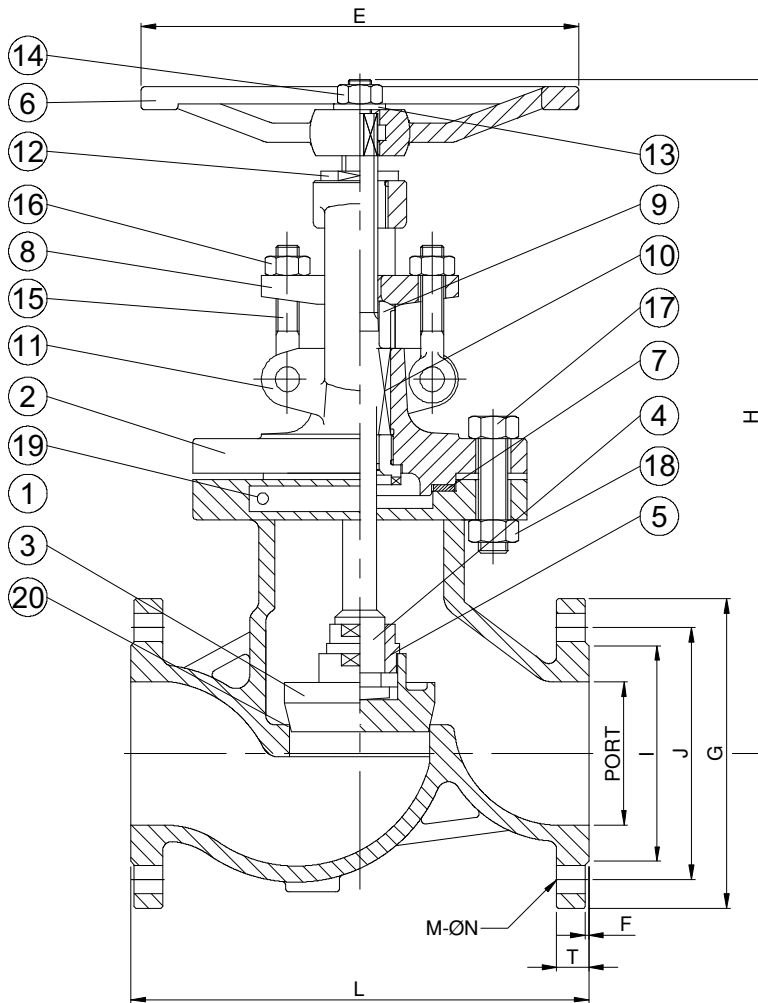
NOTES:
 Investment Cast Body Up to 8"
 Design per API 603
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"	10"	12"
Port	2	2.5	3	4	6	8	10	12
L	7.992	8.504	9.488	11.496	15.984	19.488	24.488	27.520
H	12.559	13.425	14.961	16.378	21.063	24.173	28.937	32.362
E	7.874	9.843	9.843	11.811	15.748	17.717	21.654	23.622
Flange Dimensions	F	0.063	0.063	0.063	0.063	0.063	0.063	0.063
	G	6	7	7.5	9	11	13.5	16
	I	3.62	4.12	5.00	6.19	8.50	10.62	12.75
	J	4.75	5.50	6.00	7.50	9.50	11.75	14.25
	T	0.62	0.69	0.75	0.94	1.00	1.12	1.19
	M	4	4	4	8	8	8	12
	N	0.75	0.75	0.75	0.75	0.88	0.88	1.00
Wt. (LBS)	28	44	47	91	144	265	474	551

300# Stainless Steel Globe Valve

Standard Materials



NO	PART NAME	MATERIAL
1	Body	ASTM A351 Gr. CF8M
2	Bonnet	ASTM A351 Gr. CF8M
3	Disc	ASTM A351 Gr. CF8M
4	Stem	ASTM A182 Gr. F316
5	Disc Nut	ASTM A276 Gr. 316
6	Handwheel	ASTM A536
7	Gasket	PTFE
8	Gland Flange	ASTM A351 Gr. CF8
9	Gland	ASTM A351 Gr. CF8M
10	Gland Packing	PTFE
11	Eye Bolt Pin	ASTM A276 Gr. 304
12	Stem Nut	ASTM A276 Gr. 410
13	Washer	ASTM A240 Gr. 304
14	Wheel Nut	SS 304
15	Eye Bolt	ASTM A193 Gr. B8
16	Eye Bolt Nut	ASTM A194 Gr. 8
17	Bonnet Bolt	ASTM A193 Gr. B8
18	Bonnet Bolt Nut	ASTM A194 Gr. 8
19	Name Plate	SS 304
20	Seat	ASTM A351 Gr. CF8M (integral)

NOTES:
 Investment Cast Body Up to 8"
 Design per API 603
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

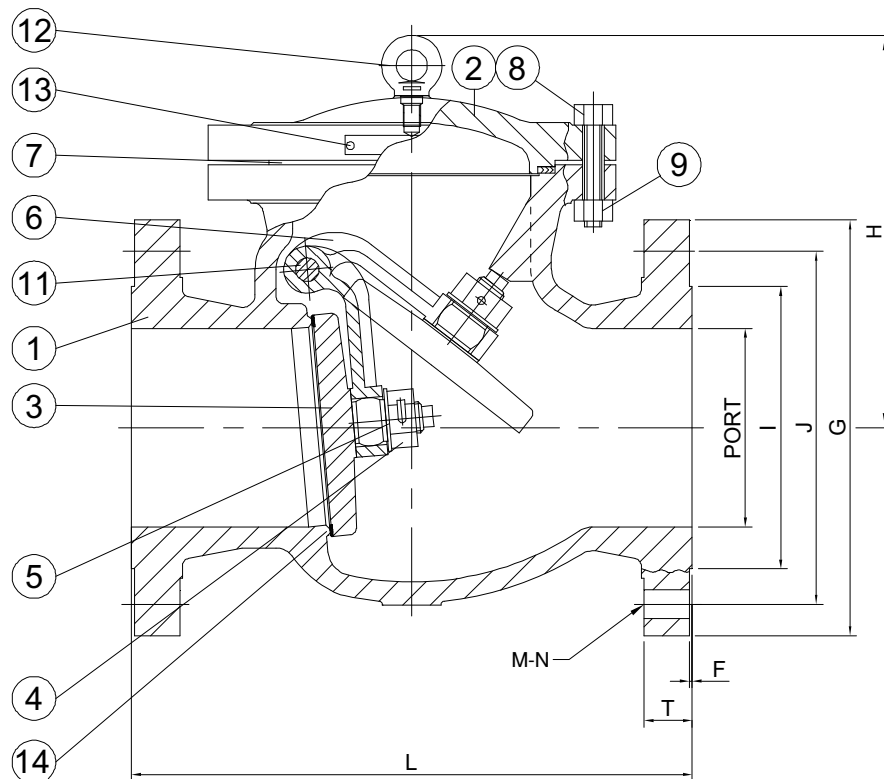
Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"	10"
Port	2	2.5	3	4	6	8	10
L	10.512	11.496	12.520	14.016	17.520	22.008	24.488
H	16.614	18.425	20.472	23.898	30.866	34.173	41.024
E	7.874	9.843	11.811	11.811	15.748	19.985	23.622
Flange Dimensions	F	0.063	0.063	0.063	0.063	0.063	0.063
	G	6.5	7.5	8.25	10	12.5	17.5
	I	3.62	4.12	5.00	6.19	8.50	10.62
	J	5.00	5.88	6.62	7.88	10.62	13.00
	T	0.88	1.00	1.12	1.25	1.44	1.62
	M	8	8	8	8	12	12
	N	0.75	0.88	0.88	0.88	0.88	1.00
Wt. (LBS)	66	88	133	188	331	882	1169

150# Stainless Steel Swing Check Valve

NOTES:

Design per API 603
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598



Standard Materials

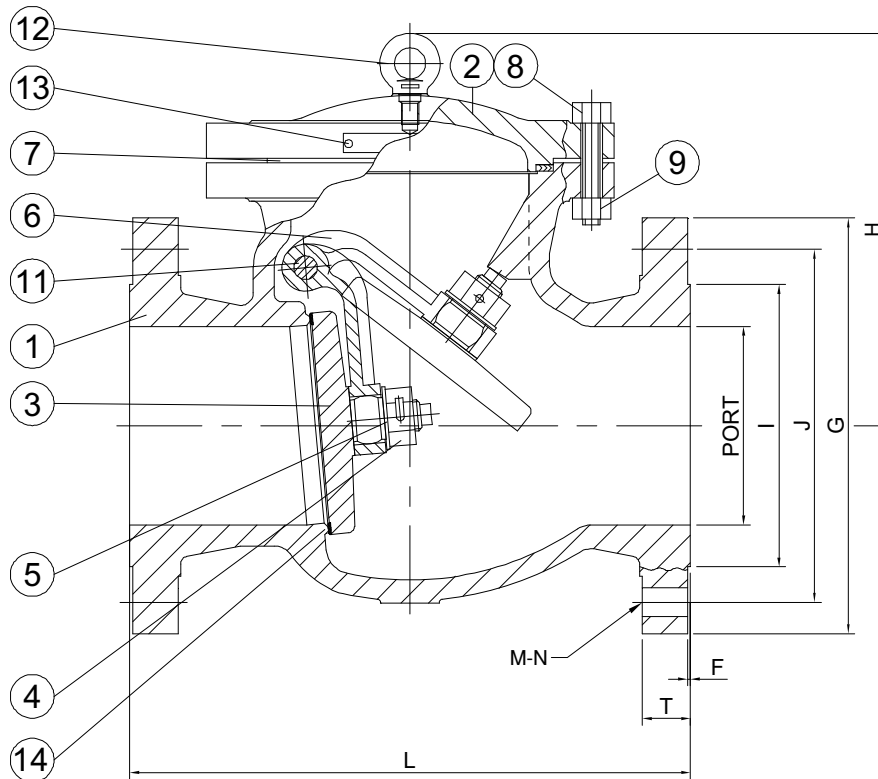
NO	PART NAME	MATERIAL
1	Body	ASTM A351 Gr. CF8M
2	Cover	ASTM A351 Gr. CF8M
3	Disc	ASTM A351 Gr. CF8M
4	Disc Nut	ASTM A194 Gr. 8M
5	Disc Washer	ASTM A276 Gr. 316 (size 2 inch & larger)
6	Swing Arm	ASTM A351 Gr. CF8M
7	Gasket	PTFE

NO	PART NAME	MATERIAL
8	Cover Bolt	ASTM A193 Gr. B8
9	Cover Bolt Nut	ASTM A194 Gr. 8 (SS304 on 1-1/2 inch)
10	Hinge Plug	ASTM A276 Gr. 316 (1-1/2 inch only, not shown)
11	Hinge Pin	ASTM A276 Gr. 316
12	Eye Bolt	A36 + Zn Plate (2 inch & larger)
13	Name Plate	SS 304
14	Seat	ASTM A351 Gr. CF8M (integral to body)

Dimensions (Inches)

SIZE	1-1/2"	2"	2-1/2"	3"	4"	6"	8"	10"	12"
Port	1.5	2	2.5	3	4	6	8	10	12
L	6.496	7.992	8.504	9.488	11.496	14.016	19.488	24.488	27.520
H	4.094	5.591	5.827	6.339	7.362	11.299	14.213	15.472	16.850
Flange Dimensions	F	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
	G	5	6	7	7.5	9	11	13.5	16
	I	2.87	3.62	4.12	5.00	6.19	8.50	10.62	12.75
	J	3.87	4.75	5.50	6.00	7.50	9.50	11.75	14.25
	T	0.56	0.62	0.69	0.75	0.94	1.00	1.12	1.19
	M	4	4	4	4	8	8	8	12
N	0.63	0.75	0.75	0.75	0.75	0.88	0.88	1.00	1.00
Wt. (LBS)	16	24	31	45	68	119	181	305	518

300# Stainless Steel Swing Check Valve



NOTES:
 Design per API 603
 Pressure/Temperature Rating per ANSI B16.34
 Flange Dimensions per ANSI B16.5
 Face to Face Dimensions per ANSI B16.10
 Pressure Tested per API 598

Standard Materials

NO	PART NAME	MATERIAL
1	Body	ASTM A351 Gr. CF8M
2	Cover	ASTM A351 Gr. CF8M
3	Disc	ASTM A351 Gr. CF8M
4	Disc Nut	ASTM A194 Gr. 8M
5	Disc Washer	ASTM A276 Gr. 316
6	Swing Arm	ASTM A351 Gr. CF8M
7	Gasket	PTFE

NO	PART NAME	MATERIAL
8	Cover Bolt	ASTM A193 Gr. B8
9	Cover Bolt Nut	ASTM A194 Gr. 8
11	Hinge Pin	ASTM A276 Gr. 316
12	Eye Bolt	A36 + Zn Plate
13	Name Plate	SS 304
14	Seat	ASTM A351 Gr. CF8M (integral to body)

Dimensions (Inches)

SIZE	2"	2-1/2"	3"	4"	6"	8"	10"
Port	2	2.5	3	4	6	8	10
L	10.512	11.496	12.520	14.016	17.520	20.984	24.488
H	6.811	7.087	8.661	9.291	12.205	13.386	15.472
Flange Dimensions	F	0.063	0.063	0.063	0.063	0.063	0.063
	G	6.5	7.5	8.25	10	12.5	17.5
	I	3.62	4.12	5.00	6.19	8.50	10.62
	J	5.00	5.88	6.62	7.88	10.62	13.00
	T	0.88	1.00	1.12	1.25	1.44	1.62
	M	8	8	8	8	12	12
N	0.75	0.89	0.89	0.89	0.89	1.00	
Wt. (LBS)	41	55	79	111	192	276	375



DOC: FNWFGGCV05 Ver. 1/09

© 2009 - FNW. All rights reserved.
The FNW logo is a registered trademark of Ferguson Enterprises, Inc.

The contents of this publication are presented for information purposes only, and while effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, expressed or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice. Always verify that you have the most recent product specifications or other documentation prior to the installation of these products.