

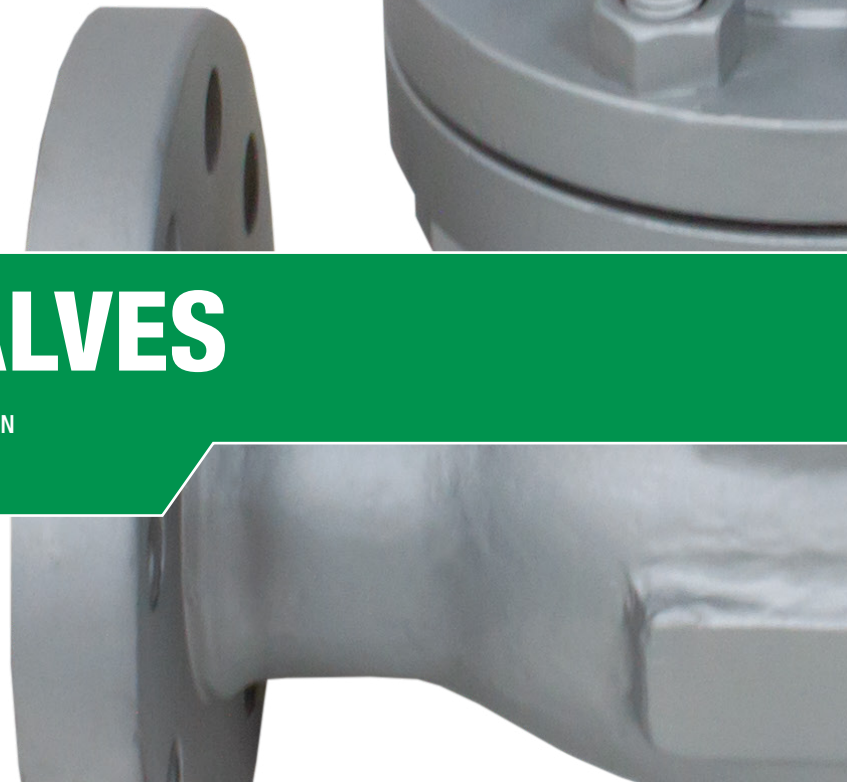
# ATLANTIC PIPE

VALVES AND FITTINGS

When **QUALITY,**  
**SERVICE** and **PRICE**  
**MATTER MOST!**

## CAST STEEL VALVES

COMMERCIAL CONSTRUCTION | FIRE PROTECTION | HVAC | IRRIGATION  
MINING | WATER & WASTEWATER | OIL & GAS | POWER GENERATION



# About Atlantic Pipe Valves and Fittings



## About Atlantic Pipe Valves and Fittings

Atlantic Pipe Valves and Fittings is a locally owned company in Dartmouth Nova Scotia with a office/warehouse of 4000 sq/feet and an off site 2 acre pipe yard with access to valve modification and testing . We are celebrating 1 year of business in August 2020 but have over 35 years of Industrial Pipe, Valve and fitting knowledge. Atlantic Pipe Valves and Fittings can service your needs with on hand stock as well as fast turnarounds with our partner vendors. We can also supply, basket and Y strainers, check valves, gauges and many more specialty products such as chrome-moly or high grades of stainless steel. Whether it's a cast steel, forged steel, bronze or iron gate globe, Y pattern globe or check valve we can supply.



**Please contact us by email at [pbrown@atlanticpvf.ca](mailto:pbrown@atlanticpvf.ca) or phone at (902) 406-2435 to discuss.**

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**3 YEAR** VIEW TERMS  
& CONDITIONS  
**WARRANTY**

**ISO**  
9001 | **CRN**

## Cast Steel Valves

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# Product Features

## Introduction and Features

- We offer ANSI Class 150# , 300# and 600# cast steel valve standardized in ASTM A216-WCB, A352-LCC and ASTM A351-CF8M body. **Other materials are available upon special request.**
- We carry a full size range of the carbon steel and stainless gate, globe and check valves. Our warehouse located at 95 Akerley Blvd. Unit C, Dartmouth Nova Scotia can quickly service the Maritimes.
- All cast steel valves, carbon or stainless, come standard with RF Flange connections designed and manufactured to ANSI B16.5. **Butt weld and RTJ flanges are also available by special request.**
- Carbon steel and low carbon steel valves with NACE strictly comply with the NACE MR0103 specification, and contain no copper bearing alloys for applications that handle H2S bearing hydrocarbons. Please refer to the material list under each product category for details. It is the user's responsibility to ensure that all materials meet the requirements of the intended environment.
- All cast steel valves are inspected and tested according to API598.



## Standard In-Stock Items

Style	P/T Rating	Size	End Connection	Bonnet	Body Material	Operator
Gate Valve	ANSI CLS150	2"-12" 14"-24"	RF FLG x RF FLG	OS&Y Bolted Bonnet	A216-WCB A351-CF8M A352-LCC	Hand wheel Gear Operator
	ANSI CLS300	2"-12" 14"-24"	RF FLG x RF FLG	OS&Y Bolted Bonnet	A216-WCB A351-CF8M A352-LCC	Hand wheel Gear Operator
Globe Valve	ANSI CLS150	2"-10" 12"-16"	RF FLG x RF FLG	OS&Y Bolted Bonnet	A216-WCB A351-CF8M A352-LCC	Hand wheel Gear Operator
	ANSI CLS300	2"-8" 10"-16"	RF FLG x RF FLG	OS&Y Bolted Bonnet	A216-WCB A351-CF8M A352-LCC	Hand wheel Gear Operator
Swing Check Valve	ANSI CLS150	2"-24"	RF FLG x RF FLG	Bolted Cap	A216-WCB A351-CF8M A352-LCC	—
	ANSI CLS300	2"-24"	RF FLG x RF FLG	Bolted Cap	A216-WCB A351-CF8M A352-LCC	—

## Designed and Manufactured to the Following Industry Standards

- Cast Steel Gate valves are designed and manufactured to API600, Globe valves to API600 & API623 and Check valve to API 6D.
- Pressure/Temperature rating conforms to ASME B16.34.
- NACE package are designed and manufactured to NACE MR0103.
- All valves are tested according to API 598.
- Face to Face dimensions are designed and manufactured to ANSI/ASME B16.10
- Connection ends are designed and manufactured to ANSI/ASME B16.5 for Flanged connections and B16.25 for Butt Weld connections.

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Body, Bonnet/Cover Materials			
Atlantic Pipe Valves and Fittings Material Code	ASTM Specification	Nominal Designation	Recommended Service Condition
<b>CB*</b>	A216-WCB	Carbon steel	General non-corrosive water, steam, oil and gases services between -20°F(-29°C) and 800°F(425°C).
<b>LC*</b>	A352-LCC	Low Temp. C.S.	Non-corrosive low temperature services between -50°F(-46°C) and 650°F(345°C).
<b>S1*</b>	A351-CF8M	Stainless Steel (316)	Corrosive or, extremely temperature non-corrosive services between -450°F (-268°C) and 1200°F(649°C). At temperature over 1000°F (538°C), use only when carbon content is 0.04% or higher.

\* Standard Materials

\*\* Other Materials available on request

Trim Specification							
Atlantic Pipe Valves and Fittings Trim Code	API Trim #	API Nominal Trim	Seat Surface Material	Seat Surface Specification	Stem/Bushing Material	Stem/Bushing Specification	Recommended Service Applications†
<b>05*</b>	5	Hardfaced	Co-Cr A	–	13Cr	ASTM A27 T410/T420	High pressure and slightly erosive and corrosive services. Excellent for high pressure water and steam service.
<b>08*</b>	8	F6	13Cr	ASTM A217 (CA15)	–	ASTM A276 T410/T420	Universal trim for general service requiring long service life. As trim 5 for moderate pressure and more corrosive service. Steam, gas and general service.
		Hardfaced	Co-Cr A	–	–	–	
<b>10</b>	10	316	18Cr-8Ni	ASTM A351 (CF8M)	18Cr-8Ni-Mo	ASTM A276 T316	For superior resistance for liquids and gases which are corrosive to 410 Stainless Steel. Low temperature service standard for 316SS valves.
<b>12*</b>	12	316	18Cr-8Ni-Mo	ASTM A351 (CF8M)	18Cr-8Ni-Mo	ASTM A276 T316	As trim 10 but for medium pressure and more corrosive or asrasive service.
		Hardfaced	Trim 5 or 5A	–	–	–	

NOTE: Data provided in this chart is for informational purpose only. Always consult current API publications to verify information and trim data

† Temperatures shown may vary depending on media, pressure and service applications

\* Standard Materials

\* Other Materials available on request

## How to Order Cast Steel Valves

1	2	3	4	5	6	7	8	9
Category	Pressure	End	Body	Bonnet	Trim	Accessories	Options	Size
G S	0 8	T D	A 5	1	0 8	H W	N C	0 0 5

1	Category		
GF	Gate Valve Flex Wedge	CS	Check Valve Swing
SL	Globe Valve Linear		

2	Pressure rating		
01	Class 150	02	Class 300

3	End Style		
RF	RF Flange	BW	Butt Weld
FF	Flate Face Flange		

4	Body Material		
CB	WCB	S1	SS 316
LC	LCC		

5	Bonnet Option		
1	Bolted Bonnet/Cap		

6	Trim Design		
05	API Trim 5, Hardfaced	10	API Trim 10, 316
08	API Trim 8, F6 and Hardfaced	12(ST)	API Trim 12, 316 and Hardfaced

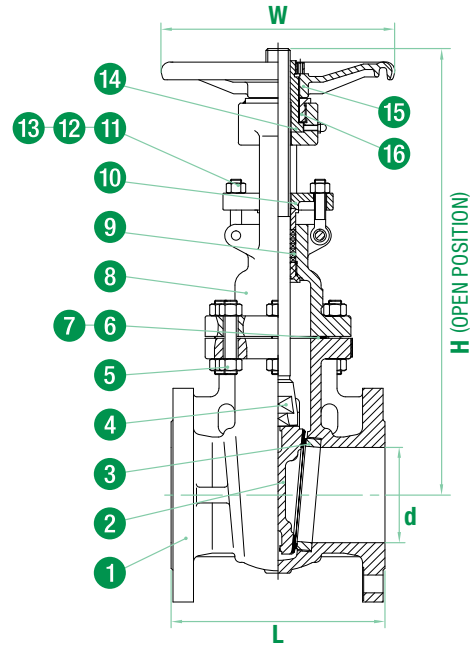
7	Accessories		
HW	Handwheel	PA	Pneumatic Actuator
WE	Handwheel extension	EA	Electric Actuator
GO	Gear operator	BP	By-pass
CW	Chain wheel operator		

8	Special options		
NC	NACE for H2S Service	TF	Teflon Disc Insert
OX	Oxygen Cleaning	CC	Customized Coating

9	Sizes					
020	2"	060	6"	160	16"	
025	2-1/2"	080	8"	180	18"	
030	3"	100	10"	200	20"	
040	4"	120	12"	240	24"	
050	5"	140	14"			

### Description

- Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet / Rising Stem / Non-Rising Handwheel
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Flexible Wedge and Welded HF Seat Rings
- Available in multiple trim configurations
- 2"-24" ANSI 150# RF Flanges
- Gear Operator for valves 14" and above
- Designed to API 600 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598



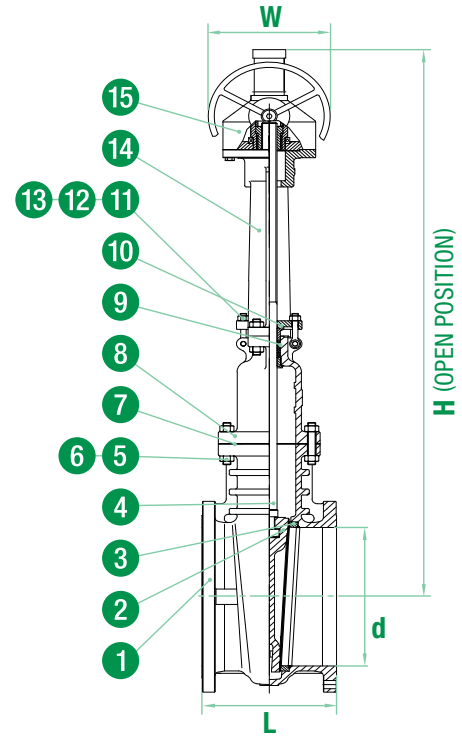
Size	Dimensions									
	L		W		H		d		Weight	
	mm	in	mm	in	mm	in	mm	in	kg	lbs
2"	178	7.0	200	7.9	387	15.2	51	2.0	16	34
2½"	191	7.5	200	7.9	435	17.1	64	2.5	19	42
3"	203	8.0	250	9.8	481	18.9	76	3.0	27	60
4"	229	9.0	280	11.0	585	23.0	102	4.0	41	91
5"	254	10.0	280	11.0	681	26.8	127	5.0	51	112
6"	267	10.5	300	11.8	765	30.1	152	6.0	66	146
8"	292	11.5	355	14.0	956	37.6	203	8.0	109	239
10"	330	13.0	400	15.7	1149	45.2	254	10.0	160	352
12"	356	14.0	450	17.7	1351	53.2	305	12.0	265	583

No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE
		GF01RFCB108HW (Trim 8)	GF01RFCB105HW (Trim 5)	GF01RFC-B108HW-NC (Trim 8)	GF01RFC-B105HW-NC (Trim 5)	GF01RFS110HW (Trim 10)	GF01RF-S112HW-NC (Trim 12)	GF01RFLC112(ST)HW-NC (Trim 12)
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
2	Wedge	A216 WCB+13Cr	A216 WCB+STL	A216 WCB+13Cr	A216 WCB+STL	A351 CF8M	A351 CF8M	A351 CF8M
3	Seat	A105+STL	A105+STL	A105+STL	A105+STL	Integral	Integral+STL	316+STL
4	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	316	316	316
5	Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M
6	Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M
7	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+316	Flex.Graphite+316	Flex.Graphite+304
8	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
9	Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
10	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
11	Eye Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M
12	Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M
13	Pin	A276 410	A276 410	A276 410	A276 410	A276-316	A276-316	A276 410
14	Stem nut	Copper Alloy	Copper Alloy	A439 D2	A439 D2	Copper Alloy	Copper Alloy	A439 D2
15	Hand Wheel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
16	Bearing Gland	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035

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### Description

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- Flexible Wedge and Welded HF Seat Rings
- Available in multiple trim configurations
- 2"–24" ANSI 150# RF Flanges
- Gear Operator for valves 14" and above
- Designed to API 600 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598



Dimensions										
Size	L		W		H		d		Weight	
	mm	in	mm	in	mm	in	mm	in	kg	lbs
14"	381	15.0	460	18.1	1508	59.4	337	13.3	399	879
16"	406	16.0	460	18.1	1703	67.0	387	15.3	486	1071
18"	432	17.0	610	24.0	1892	74.5	438	17.3	660	1454
20"	457	18.0	610	24.0	2119	83.4	489	19.3	865	1907
24"	508	20.0	610	24.0	2500	98.4	591	23.3	1184	2610

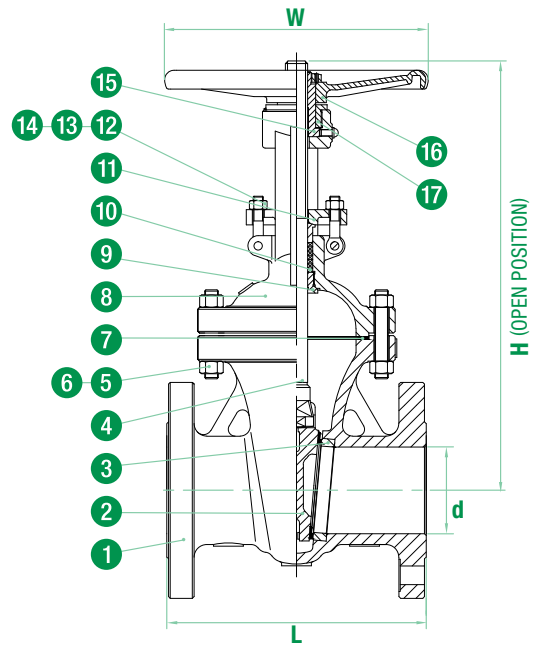
No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE
		GF01RFCB108GO (Trim 8)	GF01RFCB105GO (Trim 5)	GF01RFCB-108GO-NC (Trim 8)	GF01RFCB-105GO-NC (Trim 5)	GF01RFS-1110GO (Trim 10)	GF01RFS-1112GO-NC (Trim 12)	GF01RFLC112 (ST)GO-NC (Trim 12)
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
2	Wedge	A216 WCB+13Cr	A216 WCB+STL	A216 WCB+STL	A216 WCB+STL	A351 CF8M	A351 CF8M	A351 CF8M
3	Seat	A105+STL	A105+STL	A105+STL	A105+STL	Integral	Integral+STL	316+STL
4	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	316	316	316
5	Bolt	A193 B7	A193 B7	A193 B7	A193 B7M	A193 B8M	A193 B8M	A320 L7M
6	Nut	A194 2H	A194 2H	A194 2H	A194 2HM	A194 8M	A194 8M	A194 4M
7	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+316	Flex.Graphite+316	Flex.Graphite+304
8	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
9	Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
10	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
11	Eye Bolt	A193 B7	A193 B7	A193 B7	A193 B7M	A193 B8M	A193 B8M	A320 L7M
12	Nut	A194 2H	A194 2H	A194 2H	A194 2HM	A194 8M	A194 8M	A194 4M
13	Pin	A276 410	A276 410	A276 410	A276 410	A276-316	A276-316	A276 410
14	York	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
15	Gear Operator	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls
16	Stem nut	Copper Alloy	Copper Alloy	A439 D2	A439 D2	Copper Alloy	Copper Alloy	A439 D2

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- Designed to API 600 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
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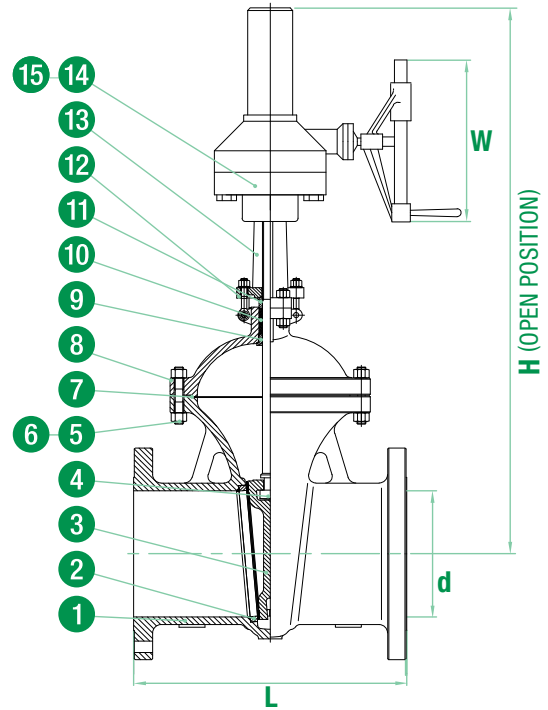
Size	Dimensions									
	L		W		H		d		Weight	
	mm	in	mm	in	mm	in	mm	in	kg	lbs
2"	216	8.5	220	8.5	410	8.7	51	2.0	23	51
2½"	241	9.5	250	9.5	453	9.8	64	2.5	31	68
3"	283	11.1	280	11.1	509	11.0	76	3.0	44	98
4"	305	12.0	280	12.0	612	11.0	102	4.0	64	141
5"	381	15.0	300	15.0	670	11.8	127	5.0	95	209
6"	403	15.9	350	15.9	805	13.8	152	6.0	135	298
8"	419	16.5	400	16.5	1000	15.7	203	8.0	193	426
10"	457	18.0	450	17.7	1209	47.6	254	10.0	313	689
12"	502	19.8	500	19.7	1416	55.7	305	12.0	431	951

No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE	
		GF03RFCB108HW (Trim 8)	GF03RFCB105HW (Trim 5)	GF03RFC-B108HW-NC (Trim 8)	GF03RFC-B105HW-NC (Trim 5)	GF03RFS1110HW (Trim 10)	GF03RF-S1112HW-NC (Trim 12)	GF03RFLC112 (ST)HW-NC (Trim 12)	
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
2	Wedge	A216 WCB+13Cr	A216 WCB+STL	A216 WCB+13Cr	A216 WCB+STL	A351 CF8M	A351 CF8M	A351 CF8M	
3	Seat	A105+STL	A105+STL	A105+STL	A105+STL	Integral	Integral+STL	316+STL	
4	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	316	316	316	
5	Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M	
6	Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M	
7	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+316	Flex.Graphite+316	Flex.Graphite+304	
8	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
9	Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	
10	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
11	Eye Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M	
12	Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M	
13	Pin	A276 410	A276 410	A276 410	A276 410	A276-316	A276-316	A276 410	
14	York	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
15	Stem nut	Copper Alloy	Copper Alloy	A439 D2	A439 D2	Copper Alloy	Copper Alloy	A439 D2	
16	Hand Wheel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	
17	Bearing Gland	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	

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- 2"–24" ANSI 300# RF Flanges
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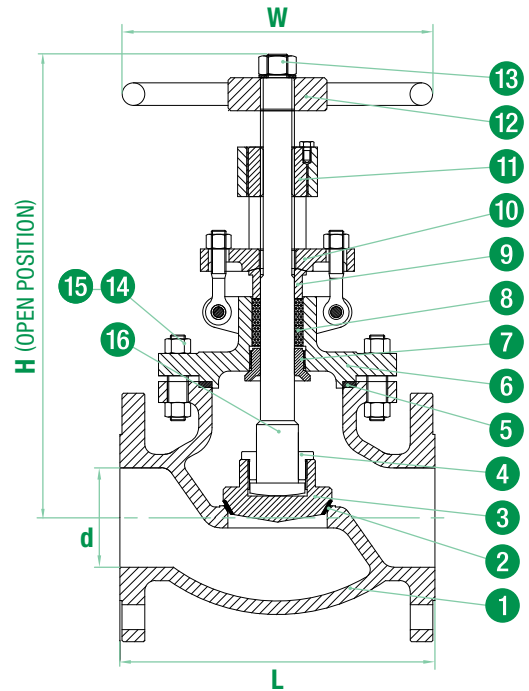
Size	Dimensions								Weight	
	L		W		H		d		kg	lbs
	mm	in	mm	in	mm	in	mm	in		
14"	762	30	460	18.1	1582	62.3	337	13.3	736	1623
16"	838	33	460	18.1	1725	67.9	387	15.3	950	2094
18"	914	36	610	24.0	1959	77.1	432	17.0	1174	2588
20"	991	39	610	24.0	2194	86.4	483	19.0	1583	3489
24"	1143	45	610	24.0	2598	102.3	584	23.0	TBA	TBA

No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE	
		GF03RFCB108GO (Trim 8)	GF03RFCB105GO (Trim 5)	GF03RFCB-108GO-NC (Trim 8)	GF03RFCB-105GO-NC (Trim 5)	GF03RFS1110GO (Trim 10)	GF03RFS-1112GO-NC (Trim 12)	GF03RFLC112 (ST)GO-NC (Trim 12)	
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
2	Seat	A105+STL	A105+STL	A105+STL	A105+STL	Integral	Integral+STL	A351 CF8M	
3	Wedge	A216 WCB+13Cr	A216 WCB+STL	A216 WCB+13Cr	A216 WCB+STL	A351 CF8M	A351 CF8M	316+STL	
4	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F316	A182 F316	316	
5	Bonnet Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M	
6	Bonnet Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M	
7	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+316	Flex.Graphite+316	Flex.Graphite+304	
8	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
9	Back seat	A276 410	A276 410	A276 410	A276 410	Integral	Integral	316	
10	Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	
11	Gland Bushing	A276 410	A276 410	A276 410	A276 410	A276-316	A276-316	A276 410	
12	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
13	York	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
14	Stem nut	Copper Alloy	Copper Alloy	A439 D2	A439 D2	Copper Alloy	Copper Alloy	A439 D2	
15	Gear Operator	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	

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### Description

- Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet / Rising Stem
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Swivel Disc and Welded HF Seat Ring
- Available in multiple trim configurations
- 2"–16" ANSI 150# RF Flanges
- Gear Operator for valves 12" and above
- Designed to API 600, API 623 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598



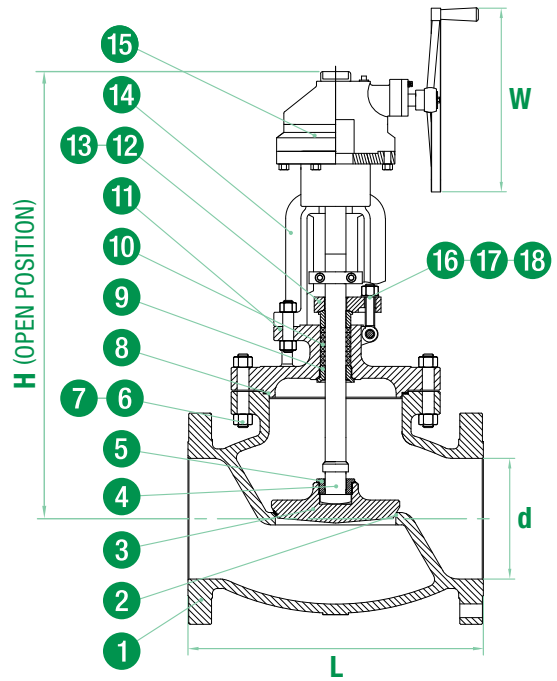
Dimensions										
Size	L		W		H		d		Weight	
	mm	in	mm	in	mm	in	mm	in	kg	lbs
2"	203	8.0	200	7.9	338	13.3	51	2.0	17	38
2½"	216	8.5	200	7.9	373	14.7	64	2.5	25	54
3"	241	9.5	250	9.8	396	15.6	76	3.0	31	68
4"	292	11.5	280	11.0	476	18.7	102	4.0	47	104
5"	356	14.0	300	11.8	497	19.6	127	5.0	71	157
6"	406	16.0	350	13.8	524	20.6	152	6.0	86	189
8"	495	19.5	400	15.7	588	23.1	203	8.0	145	321
10"	622	24.5	500	19.7	738	29.1	254	10.0	267	588

No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE
		SL01RFCB108HW (Trim 8)	SL01RFCB105HW (Trim 5)	SL01RFC-B108HW-NC (Trim 8)	SL01RFC-B105HW-NC (Trim 5)	SL01RFS1110HW (Trim 10)	SL01RF-S1112HW-NC (Trim 12)	SL01RFLC112 (ST)HW-NC (Trim 12)
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
2	Seat	Integral+STL	Integral+STL	Integral+STL	Integral+STL	Integral	Integral+STL	Integral+STL
3	Disc	A105+13Cr	A105+STL	A105+13Cr	A105+STL	316	316	316
4	Disc Cover	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	316	316	316
5	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+316	Flex.Graphite+316	Flex.Graphite+304
6	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
7	Back seat	A276 410	A276 410	A276 410	A276 410	Integral	Integral	A276 410
8	Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
9	Gland	A276 410	A276 410	A276 410	A276 410	A276-316	A276-316	316
10	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
11	Stem nut	Copper Alloy	Copper Alloy	A439 D2	A439 D2	Copper Alloy	Copper Alloy	A439 D2
12	Hand Wheel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
13	Lock Nut	1045	1045	1045	1045	1045	1045	1045
14	Bonnet Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M
15	Bonnet Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M
16	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F316	A182 F316	A182 F316

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### Description

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- Bolted Bonnet / Rising Stem
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Swivel Disc and Welded HF Seat Ring
- Available in multiple trim configurations
- 2"–16" ANSI 150# RF Flanges
- Gear Operator for valves 12" and above
- Designed to API 600, API 623 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598



Dimensions										
Size	L		W		H		d		Weight	
	mm	in	mm	in	mm	in	mm	in	kg	lbs
12"	698	27.5	460	18.1	862	33.9	305	12.0	439	968
14"	787	31.0	610	24.0	950	37.4	337	13.3	671	1478
16"	914	36.0	610	24.0	994	39.1	387	15.2	784	1728

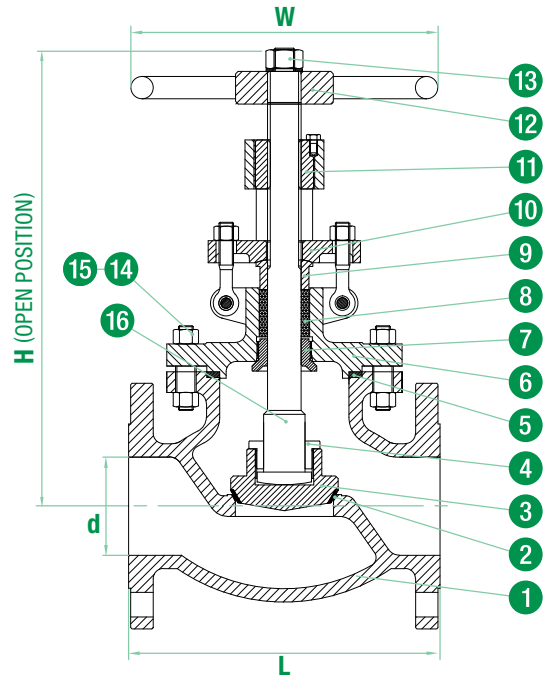
No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE	
		SL01RFCB108GO (Trim 8)	SL01RFCB105GO (Trim 5)	SL01RFCB-108GO-NC (Trim 8)	SL01RFCB-105GO-NC (Trim 5)	SL01RFS1110GO (Trim 10)	SL01RFS-1112GO-NC (Trim 12)	SL01RFLC112 (ST)GO-NC (Trim 12)	
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
2	Seat	Integral+STL	Integral+STL	Integral+STL	Integral+STL	Integral	Integral+STL	Integral+STL	
3	Disc	A105+13Cr	A105+STL	A105+13Cr	A105+STL	316	316	316	
4	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F316	A182 F316	A182 F316	
5	Disc Cover	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	316	316	316	
6	Bonnet Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M	
7	Bonnet Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M	
8	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	
9	Back seat	A276 410	A276 410	A276 410	A276 410	Integral	Integral	316	
10	Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	
11	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
12	Gland	A276 410	A276 410	A276 410	A276 410	A276-316	A276-316	A276 410	
13	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
14	Yoke	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
15	Stem nut	Copper Alloy	Copper Alloy	A439 D2	A439 D2	Copper Alloy	Copper Alloy	A439 D2	
16	Eye Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M	
17	Washer	A36	A36	A36	A36	A36	A36	A36	
18	Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M	
19	Gear Operator	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	

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- Bolted Bonnet / Rising Stem
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- Swivel Disc and Welded HF Seat Ring
- Available in multiple trim configurations
- 2"–16" ANSI 300# RF Flanges
- Gear Operator for valves 10" and above
- Designed to API 600, API 623 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598



Size	Dimensions								Weight	
	L		W		H		d		kg	lbs
	mm	in	mm	in	mm	in	mm	in		
2"	267	10.5	200	7.9	353.5	13.9	51	2.0	22	47
2½"	292	11.5	250	9.8	388.5	15.3	64	2.5	30	66
3"	318	12.5	280	11.0	420.5	16.6	76	3.0	43	94
4"	356	14.0	315	12.4	495.5	19.5	102	4.0	61	135
5"	400	15.7	350	13.8	576.5	22.7	127	5.0	96	211
6"	444	17.5	400	15.7	674.5	26.6	152	6.0	137	302
8"	559	22.0	450	17.7	911.5	35.9	203	8.0	258	568

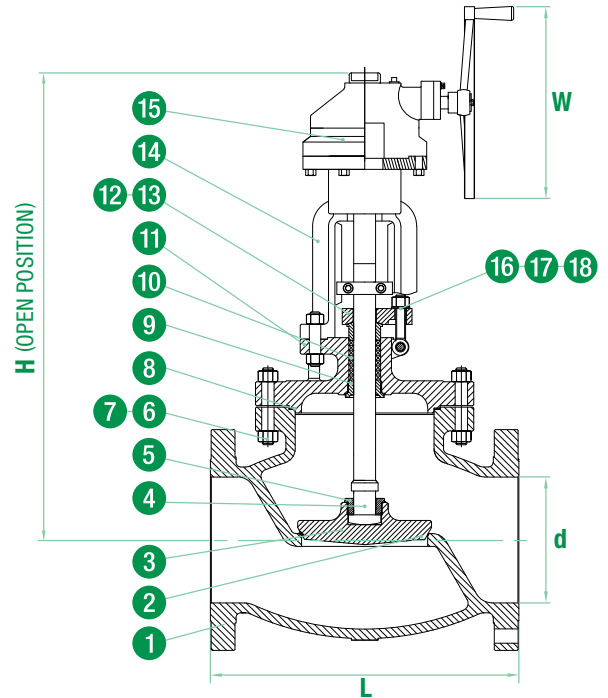
No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE
		SLO3RFCB108HW (Trim 8)	SLO3RFCB105HW (Trim 5)	SLO3RFC-B108HW-NC (Trim 8)	SLO3RFC-B105HW-NC (Trim 5)	SLO3RFS1110HW (Trim 10)	SLO3RF-S1112HW-NC (Trim 12)	SLO3RFLC112 (ST)HW-NC (Trim 12)
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
2	Seat	Integral+STL	Integral+STL	Integral+STL	Integral+STL	Integral	Integral+STL	Integral+STL
3	Disc	A105+13Cr	A105+STL	A105+13Cr	A105+STL	316	316	316
4	Disc Cover	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	316	316	316
5	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+316	Flex.Graphite+316	Flex.Graphite+304
6	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
7	Back seat	A276 410	A276 410	A276 410	A276 410	Integral	Integral	316
8	Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
9	Gland	A276 410	A276 410	A276 410	A276 410	A276-316	A276-316	A276 410
10	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
11	Stem nut	Copper Alloy	Copper Alloy	A439 D2	A439 D2	Copper Alloy	Copper Alloy	A439 D2
12	Hand Wheel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
13	Lock Nut	1045	1045	1045	1045	1045	1045	1045
14	Bonnet Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M
15	Bonnet Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M
16	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F316	A182 F316	A182 F316

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### Description

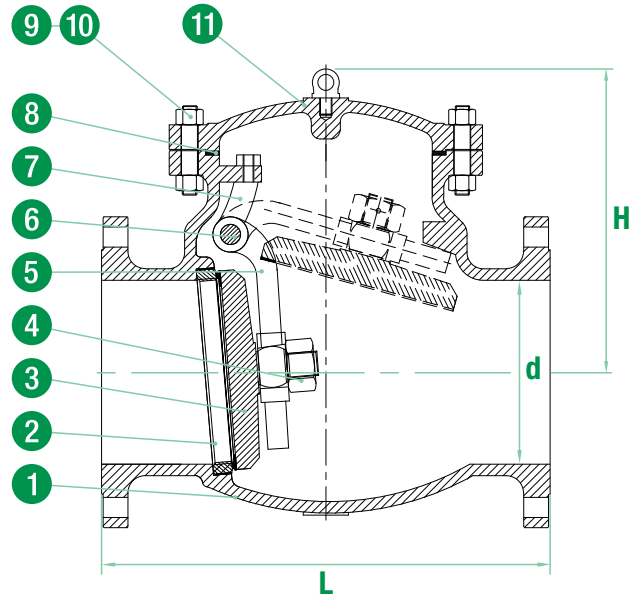
- Carbon or Stainless Steel Body and Bonnet
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- Available in multiple trim configurations
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- Designed to API 600, API 623 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598



Dimensions										
Size	L		W		H		d		Weight	
	mm	in	mm	in	mm	in	mm	in	kg	lbs
10"	622	24.5	610	24.0	949	37.4	254	10.0	355	783
12"	711	28.0	610	24.0	1032	40.6	305	12.0	506	1115
14"	838	33.0	610	24.0	1130	44.5	337	13.3	675	1488
16"	864	34.0	610	24.0	1310	51.6	387	15.2	TBA	TBA

No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE	
		SL03RFCB108GO (Trim 8)	SL03RFCB105GO (Trim 5)	SL03RFCB-108GO-NC (Trim 8)	SL03RFCB-105GO-NC (Trim 5)	SL03RFS-1110GO (Trim 10)	SL03RFS-1112GO-NC (Trim 12)	SL03RFLC112 (ST)GO-NC (Trim 12)	
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
2	Seat	Integral+STL	Integral+STL	Integral+STL	Integral+STL	Integral	Integral+STL	Integral+STL	
3	Disc	A105+13Cr	A105+STL	A105+13Cr	A105+STL	316	316	316	
4	Stem	A182 F6a	A182 F6a	A182 F6a	A182 F6a	A182 F316	A182 F316	A182 F316	
5	Disc Cover	ASTM 1035	ASTM 1035	ASTM 1035	ASTM 1035	316	316	316	
6	Bonnet Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M	
7	Bonnet Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M	
8	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	
9	Back seat	A276 410	A276 410	A276 410	A276 410	Integral	Integral	316	
10	Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	
11	Bonnet	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
12	Gland	A276 410	A276 410	A276 410	A276 410	A276-316	A276-316	A276 410	
13	Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
14	Yoke	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC	
15	Stem nut	Copper Alloy	Copper Alloy	A439 D2	A439 D2	Copper Alloy	Copper Alloy	A439 D2	
16	Eye Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M	
17	Washer	A36	A36	A36	A36	A36	A36	A36	
18	Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M	
19	Gear Operator	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	Various Mat'ls	

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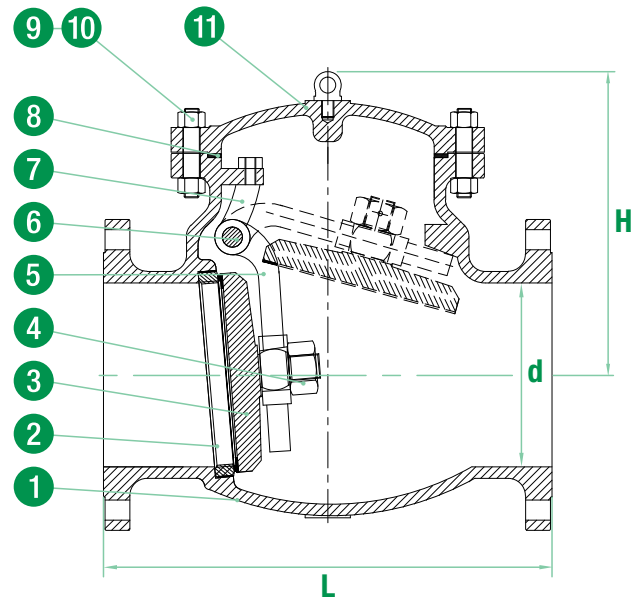
### Description

- Carbon or Stainless Steel Body and Cap/Bonnet
- Swivel Disc and Welded HF Seat Ring
- Available in multiple trim configurations
- 2"– 24" ANSI 150# RF Flanges
- Designed to API 6D & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598

Size	Dimensions						Weight	
	L		H		d		kg	lbs
	mm	in	mm	in	mm	in		
2"	203	8.0	151	5.9	51	2.0	15	32
2½"	216	8.5	168	6.6	64	2.5	21	46
3"	241	9.5	171	6.7	76	3.0	27	60
4"	292	11.5	204	8.0	102	4.0	39	87
5"	330	13.0	230	9.1	125	4.9	56	124
6"	356	14.0	297	11.7	152	6.0	68	150
8"	495	19.5	352	13.8	203	8.0	127	279
10"	622	24.5	370	14.5	254	10.0	193	426
12"	698	27.5	438	17.2	305	12.0	298	656
14"	787	31.0	477	18.8	337	13.3	411	905
16"	864	34.0	525	20.7	387	15.2	588	1296
18"	978	38.5	582	22.9	438	17.2	762	1680
20"	978	38.5	627	24.7	487	19.2	TBA	TBA
24"	1295	51.0	880	34.6	591	23.3	TBA	TBA

No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE
		CS01RFCB108 (Trim 8)	CS01RFCB105 (Trim 5)	CS01RFCB108-NC (Trim 8)	CS01RFCB105-NC (Trim 5)	CS01RFS1110 (Trim 10)	CS01RFS1112-NC (Trim 12)	CS01RFLC112-NC (Trim 12)
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
2	Seat	A105+STL	A105+STL	A105+STL	A105+STL	Integral	Integral+STL	316+STL
3	Disc	A216 WCB+13Cr	A216 WCB+STL	A216 WCB+13Cr	A216 WCB+STL	A351 CF8M	A351 CF8M	A351 CF8M
4	Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8	A194 8	A194 4M
5	Rocker	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
6	Pin	A182 F6a	A182 F6a	A182 F6a	A182 F6a	316	316	316
7	Yoke	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
8	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304
9	Cap Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M
10	Cap Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M
11	Cap	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC

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- Designed to API 6D & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598

Size	Dimensions						Weight	
	L		H		d		kg	lbs
	mm	in	mm	in	mm	in		
2"	267	10.5	176	6.9	51	2.0	21	46
2½"	292	11.5	185	7.3	64	2.5	29	64
3"	318	12.5	216	8.5	76	3.0	41	91
4"	356	14.0	259	10.2	102	4.0	61	133
5"	400	15.7	304	12.0	127	5.0	TBA	TBA
6"	444	17.5	317	12.5	152	6.0	148	325
8"	533	21.0	380	15.0	203	8.0	194	427
10"	622	24.5	434	17.1	254	10.0	289	637
12"	711	28.0	511	20.1	305	12.0	301	664
14"	838	33.0	561	22.1	337	13.3	696	1534
16"	864	34.0	596	23.5	387	15.2	851	1876
18"	978	38.5	675	26.6	432	17.0	TBA	TBA
20"	1016	40.0	730	28.7	483	19.0	TBA	TBA
24"	1346	53.0	860	33.9	584	23.0	TBA	TBA

No.	Part Name	WCB Body		WCB Body NACE		CF8M Body		LCC Body NACE
		CS03RFCB108 (Trim 8)	CS03RFCB105 (Trim 5)	CS03RFCB108-NC (Trim 8)	CS03RFCB105-NC (Trim 5)	CS03RFS1110 (Trim 10)	CS03RFS1112-NC (Trim 12)	CS03RFLC112 (ST)-NC (Trim 12)
1	Body	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
2	Seat	A105+STL	A105+STL	A105+STL	A105+STL	Integral	Integral+STL	316+STL
3	Disc	A216 WCB+13Cr	A216 WCB+STL	A216 WCB+13Cr	A216 WCB+STL	A351 CF8M	A351 CF8M	A351 CF8M
4	Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8	A194 8	A194 4M
5	Rocker	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
6	Pin	A182 F6a	A182 F6a	A182 F6a	A182 F6a	316	316	316
7	Yoke	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC
8	Gasket	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304	Flex.Graphite+304
9	Cap Nut	A194 2H	A194 2H	A194 2HM	A194 2HM	A194 8M	A194 8M	A194 4M
10	Cap Bolt	A193 B7	A193 B7	A193 B7M	A193 B7M	A193 B8M	A193 B8M	A320 L7M
11	Cap	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8M	A351 CF8M	A352 LCC

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# Engineering Specifications

## Pressure - Temperature Ratings for Class 150 Cast Steel Valves

Service Temperature		Maximum Working Pressure (PSIG)											
		A216-WCB (A)		A216-WCC (A) A352-LC (B), A352-LC2 (B)		A217-WC6 (C)		A217-WC9 (C)		A351-CF8M (E)		A351-CF8 (E)	
		psig	BAR	psig	BAR	psig	BAR	psig	BAR	psig	BAR	psig	BAR
-20 to 100	-29 to 38	285	19.6	290	19.8	290	19.8	290	19.8	275	19.0	275	19.0
200	50	260	19.2	260	19.5	260	19.5	260	19.5	235	18.4	230	18.4
300	100	230	17.7	230	17.7	230	17.7	230	17.7	215	16.2	205	16.2
400	150	200	15.8	200	15.8	200	15.8	200	15.8	195	14.8	190	14.8
500	200	170	13.8	170	13.8	170	13.8	170	13.8	170	13.7	170	13.7
600	250	140	12.1	140	12.1	140	12.1	140	12.1	140	12.1	140	12.1
650	300	125	10.2	125	10.2	125	10.2	125	10.2	125	10.2	125	10.2
700	325	110	9.3	110	9.3	110	9.3	110	9.3	110	9.3	110	9.3
750	350	95	8.4	95	8.4	95	8.4	95	8.4	95	8.4	95	8.4
800	375	80	7.4	80	7.4	80	7.4	80	7.4	80	7.4	80	7.4
850	400	65	6.5	65	6.5	65	6.5	65	6.5	65	6.5	65	6.5
900	425	50	5.5	50	5.5	50	5.5	50	5.5	50	5.5	50	5.5
950	450	35	4.6	35	4.6	35	4.6	35	4.6	35	4.6	35	4.6
1000	475	20	3.7	20	3.7	20	3.7	20	3.7	20	3.7	20	3.7
1050	500	-	2.8	-	2.8	20 <sup>(D)</sup>	2.8	20 <sup>(D)</sup>	2.8	20 <sup>(D)</sup>	2.8	20 <sup>(D)</sup>	2.8
1100	538	-	1.4	-	1.4	20 <sup>(D)</sup>	1.4	20 <sup>(D)</sup>	1.4	20 <sup>(D)</sup>	1.4	20 <sup>(D)</sup>	1.4
1150	550	-	-	-	-	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>
1200	575	-	-	-	-	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>
1250	600	-	-	-	-	-	1.4 <sup>(D)</sup>	-	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>
1300	625	-	-	-	-	-	1.4 <sup>(D)</sup>	-	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>
1350	650	-	-	-	-	-	1.4 <sup>(D)</sup>	-	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>
1400	675	-	-	-	-	-	-	-	-	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>
1450	700	-	-	-	-	-	-	-	-	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>	20 <sup>(D)</sup>	1.4 <sup>(D)</sup>
1500	725	-	-	-	-	-	-	-	-	15 <sup>(D)</sup>	1.4 <sup>(D)</sup>	15 <sup>(D)</sup>	1.4 <sup>(D)</sup>
-	750	-	-	-	-	-	-	-	-	-	1.4 <sup>(D)</sup>	-	1.4 <sup>(D)</sup>
-	775	-	-	-	-	-	-	-	-	-	1.4 <sup>(D)</sup>	-	1.4 <sup>(D)</sup>
-	800	-	-	-	-	-	-	-	-	-	1.2 <sup>(D)</sup>	-	1.2 <sup>(D)</sup>
-	816	-	-	-	-	-	-	-	-	-	1.0 <sup>(D)</sup>	-	1.0 <sup>(D)</sup>

NOTE: In accordance with ASME B16.34-2013 ASME Boiler and Pressure Vessel Code Section II materials that also meet the requirements of the listed ASTM specifications may also be used.

(A) Permissible, but not recommended for prolonged usage above 800°F (425°C)

(B) Not to be used over 650°F (345°C)

(C) Not to be used over 1100°F (595°C)

(D) Flanged-end valve ratings terminate at 1000°F (538°C)

(E) At temperatures over 1000°F (538°C), use only when carbon content is 0.04% or higher

## Flow Coefficients (Cv / Kv) for Class 150 Cast Steel Valves

Size	Gate Valve		Globe Valve		Swing Check Valve	
	Cv	Kv	Cv	Kv	Cv	Kv
2"	172	148	57	49	106	92
2½"	270	234	90	78	168	145
3"	426	368	135	116	236	204
4"	1085	938	240	207	369	319
5"	1682	1454	359	310	614	531
6"	3408	2946	514	444	880	761
8"	6798	5877	887	766	1394	1206
10"	10637	9197	1332	1152	2183	1887
12"	16399	14178	1921	1661	2935	2538
14"	20020	17309	2345	2028	3655	3160
16"	26402	22827	3093	2674	3967	3430
18"	36562	31612	-	-	6174	5338
20"	45547	39380	-	-	6996	6049
24"	66501	57497	-	-	10303	8908

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# Engineering Specifications

## Pressure - Temperature Ratings for Class 300 Cast Steel Valves

Service Temperature		Maximum Working Pressure (PSIG)											
		A216-WCB (A)		A216-WCC (A) A352-LC (B), A352-LC2 (B)		A217-WC6 (C)		A217-WC9 (C)		A351-CF8M (E)		A351-CF8 (E)	
°F	°C	psig	BAR	psig	BAR	psig	BAR	psig	BAR	psig	BAR	psig	BAR
-20 to 100	-29 to 38	740	51.1	750	51.7	750	51.7	750	51.7	720	49.6	720	49.6
200	50	680	50.1	750	51.7	750	51.7	750	51.7	620	48.1	600	47.8
300	100	655	46.6	730	51.5	720	51.5	730	51.5	560	42.2	540	40.9
400	150	635	45.1	705	50.2	695	49.7	705	50.3	515	38.5	495	37.0
500	200	605	43.8	665	46.6	665	48.0	665	48.6	480	35.7	465	34.5
600	250	570	41.9	605	46.3	605	46.3	605	46.3	450	33.4	440	32.5
650	300	550	39.8	590	42.9	590	42.9	590	42.9	440	31.6	430	30.9
700	325	530	38.7	555	41.4	570	41.4	570	41.4	435	30.9	420	30.2
750	350	505	37.6	505	40.0	530	40.3	530	40.3	425	30.3	415	29.6
800	375	410	36.4	410	37.8	510	38.9	510	38.9	420	29.9	405	29.0
850	400	320	34.7	320	34.7	485	36.5	485	36.5	420	29.4	395	28.4
900	425	230	28.8	225	28.8	450	35.2	450	35.2	415	29.1	390	28.0
950	450	135	23.0	135	23.0	320	33.7	385	33.7	385	28.8	380	27.4
1000	475	85	17.4	85	17.7	215	31.7	265	31.7	365	28.7	355	26.9
1050	500	–	11.8	–	11.6	<sup>145</sup>	25.7	175	28.2	360	28.2	325	26.5
1100	538	–	5.9	–	5.9	95	14.9	110	18.4	305	25.2	255	24.4
1150	550	–	–	–	–	65	12.7	70	15.6	235	25.0	205	23.6
1200	575	–	–	–	–	40	8.8	40	10.5	185	24.0	165	20.8
1250	600	–	–	–	–	–	6.1	–	6.9	145	19.9	135	16.9
1300	625	–	–	–	–	–	4.3	–	4.5	115	15.8	115	13.8
1350	650	–	–	–	–	–	2.8	–	2.8	95	12.7	95	11.3
1400	675	–	–	–	–	–	–	–	–	75	10.3	75	9.3
1450	700	–	–	–	–	–	–	–	–	60	8.4	60	8.0
1500	725	–	–	–	–	–	–	–	–	40	7.0	40	6.8
–	750	–	–	–	–	–	–	–	–	–	5.9	–	5.8
–	775	–	–	–	–	–	–	–	–	–	4.6	–	4.6
–	800	–	–	–	–	–	–	–	–	–	3.5	–	3.5
–	816	–	–	–	–	–	–	–	–	–	2.8	–	2.8

NOTE: In accordance with ASME B16.34-2013 ASME Boiler and Pressure Vessel Code Section II materials that also meet the requirements of the listed ASTM specifications may also be used.

(A) Permissible, but not recommended for prolonged usage above 800°F (425°C)

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(E) At temperatures over 1000°F (538°C), use only when carbon content is 0.04% or higher

## Flow Coefficients (Cv / Kv) for Class 300 Cast Steel Valves

Size	Gate Valve		Globe Valve		Swing Check Valve	
	Cv	Kv	Cv	Kv	Cv	Kv
2"	172	148	57	49	106	92
2½"	270	234	90	78	168	145
3"	426	368	135	116	236	204
4"	1085	938	240	207	369	319
5"	1682	1454	359	310	614	531
6"	3408	2946	514	444	880	761
8"	6798	5877	887	766	1394	1206
10"	10637	9197	1332	1152	2183	1887
12"	16399	14178	1921	1661	2935	2538
14"	20021	17310	2345	2028	3655	3160
16"	26402	22827	3093	2674	3967	3430
18"	35541	30729	–	–	6006	5193
20"	44401	38389	–	–	6881	5950
24"	64938	56145	–	–	10060	8698

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- Weld Outlets



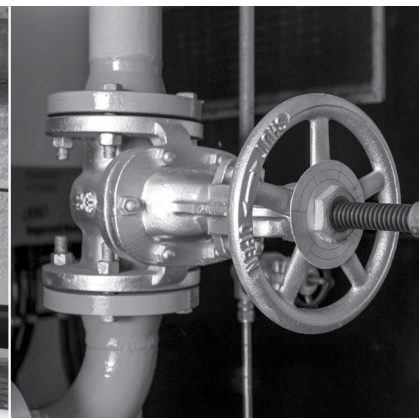
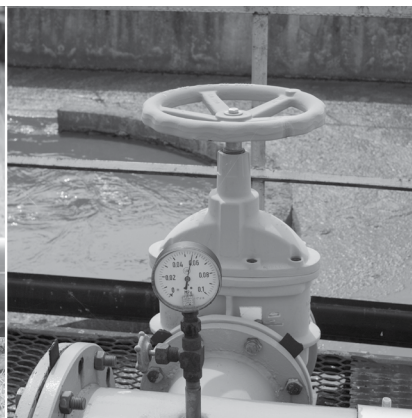
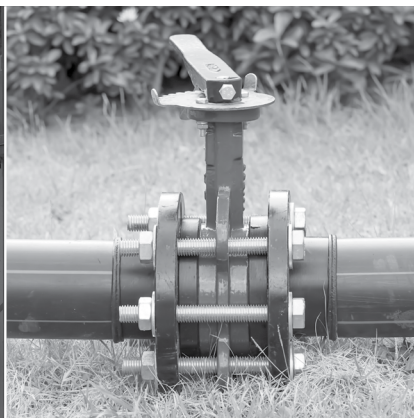
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