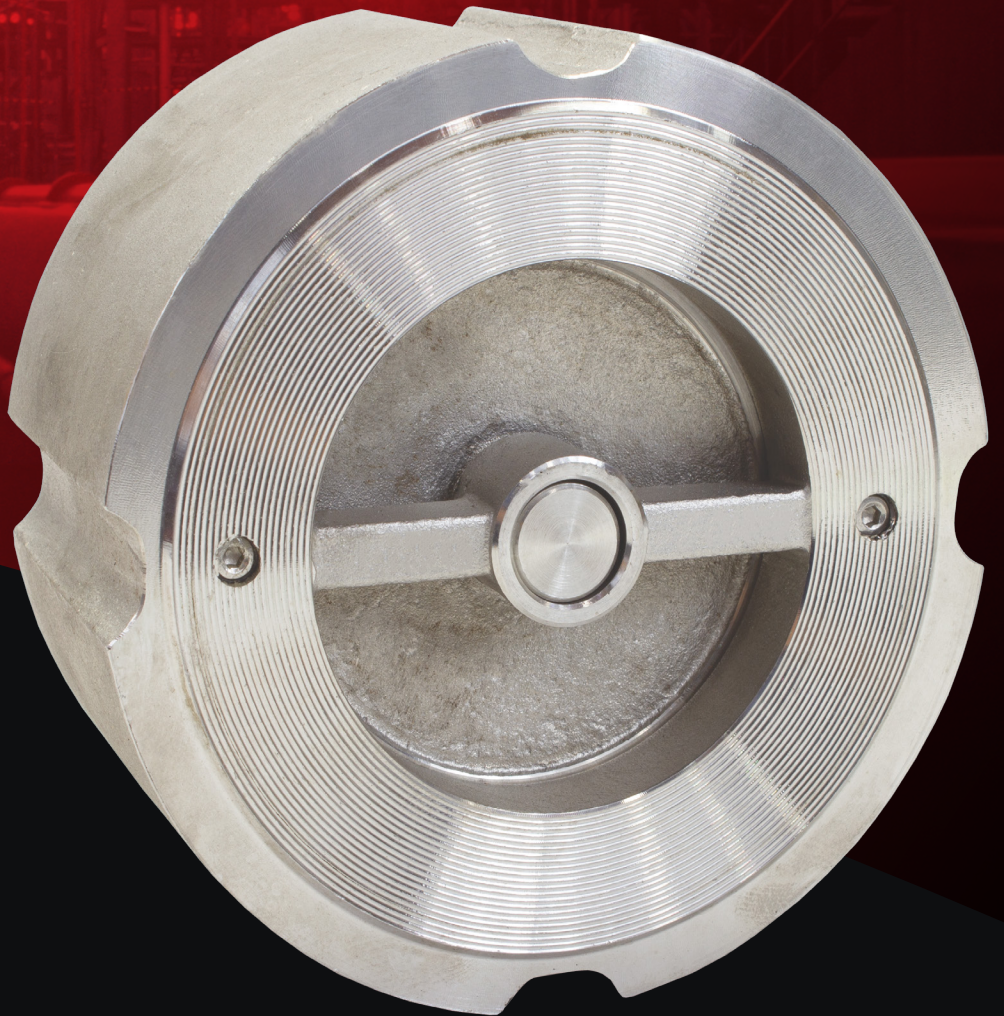


Elite Valve

elitevalve.com

Customized
valve solutions
for the toughest
applications



Check Valves

Offering both standard and custom-engineered solutions, Elite Valve can meet all your process requirements.





Contents

2	Triple Duty Valve
7	Double Door Check Valves
23	Silent Check Valves (Wafer)
34	Silent Check Valves (Flanged)
45	Foot Valves
53	Notes

Overview



Sizes
2" to 14"



Temperature
up to 212°F



Pressure
up to 200 PSIG



Applications

- Process Industry
- Power Industry
- Chemical Industry
- Oil & Gas
- Metals & Mining
- Water & Waste
- Pulp & Paper

Features

- Practical 3-in-1 design
- Operates automatically and silently
- Standard handwheel for ease of operation

End Connections

- FF Flanged

Materials

- Cast Iron

ASME Ratings

- Class 125

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125T Series

How to Order

1 Size				2 Model						3 O-Ring		
0	4	0	0	—	1	2	5	T	F	I	—	B

1	Inlet Size				
0200	2"	0400	4"	0800	8"
0250	2½"	0500	5"	1000	10"
0300	3"	0600	6"	1200	12"

2	Model
125TFI	Triple Duty Valve

3	O-Ring
B	Buna N

Features

- All encompassing Strainer, Flow Straightener, Elbow and Pipe Reducer for pump applications
- Direct mount to the suction side of a pump in either horizontal or vertical position
- Flow turbulence reduced through integral straightening vanes for improved pump efficiency
- All strainers supplied with removable Stainless Steel startup mesh over Stainless Steel perforated plate
- Cast Iron FF Flanges on all sizes
- All sizes complete with O-ring sealed covers with knob bolts to minimize down time
- Supporting pads for easy mounting of standard I.D. support foot
- Drain connection with plug furnished as standard

Applicable Codes (designed in accordance with)

- ASME B16.1

Models

- 125SFI – Cast Suction Diffuser

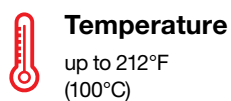
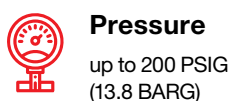
Options

- Other perforated screens and mesh liners
- EPDM or Viton cover O-ring
- Differential connections
- Bolted covers

Maximum Rated Flow Coefficients (Cv)*

* Maximum Cv rating is at 100% of stem rise

Valve Size									
2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"
83	129	189	335	529	766	1372	2154	3106	4016



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125T Series



Sizes
2" to 14"



Pressure Rating
200 PSIG (13.8 BARG)



Temperature Rating
212° F (100° C)



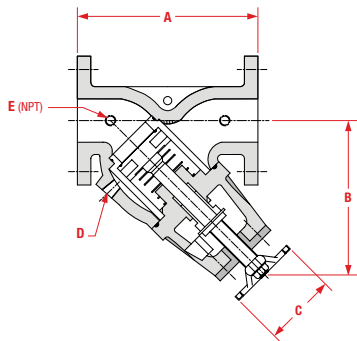
End Connections
FF Flanged

Description

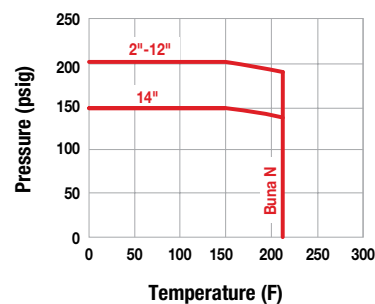
Elite Valve manufactures 2-piece cast iron triple duty valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. Elite Valve 2-piece cast iron triple duty valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Features

- Triple function includes a spring loaded silent check valve, balancing valve and shutoff valve to minimize cost and reduce installation time
- Operates automatically and silently
- Center guided soft seal disc ensures leak free performance
- Spring loaded Buna N disc provides no impact shutoff and prevents water hammer upon closing
- Graduated position indicator provides accurate visual check of valve position
- Standard handwheel for ease of operation
- Cracking pressure of 1/4 PSI
- Drain and differential connections with plug are furnished as standard



**Pressure / Temperature Chart
ASME B16.1**



Dimensions													
Size		A		B		C		D		E		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
2"	50	8.38	213	9.63	244	6.31	159	0.5	15	0.25	8	34	15
2½"	65	9.81	250	10.00	254	6.31	159	0.5	15	0.25	8	40	18
3"	80	10.00	254	10.13	257	9.38	238	0.5	15	0.25	8	50	23
4"	100	14.50	368	12.63	321	9.38	238	0.5	15	0.25	8	100	45
5"	125	16.00	407	16.38	416	11.00	279	0.5	15	0.25	8	155	70
6"	150	18.00	457	17.50	444	11.00	279	0.75	20	0.25	8	200	91
8"	200	21.50	546	18.50	470	12.50	317	0.75	20	0.25	8	350	159
10"	250	25.50	648	21.69	552	12.50	317	1	25	0.25	8	480	218
12"	300	30.00	762	24.50	622	12.50	317	1	25	0.25	8	660	299
14"	350	30.38	771	24.50	622	12.50	317	1	25	0.25	8	790	359

Materials	
Part	Material
Body & Yoke	A126-B
Disc Guide	DI/Nickel Plate
Disc	Ductile Iron
Packing Gland	Ductile Iron
Packing	Graphite
Spring	Stainless Steel
Stem	Stainless Steel
Seat Seal	Buna N
Disc Seal	Buna N

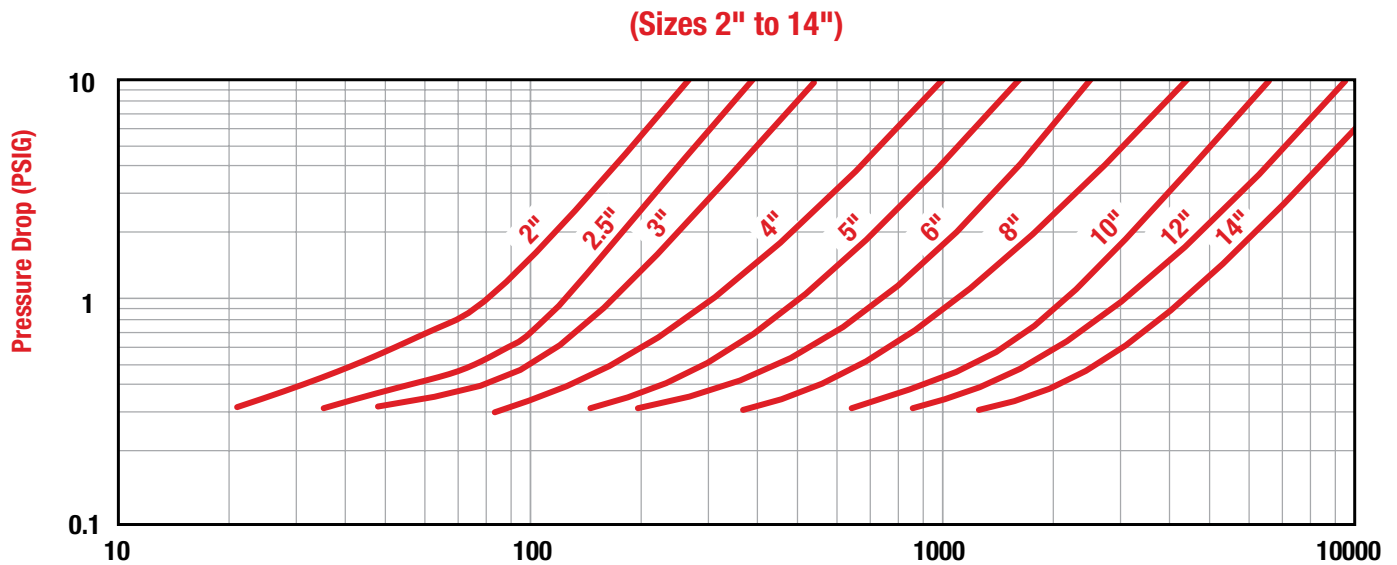
* Dimensions shown are in full open position | Dimensions shown are subject to change. Consult factory for certified drawings when required.

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125T Series

Pressure Drop VS. Flow Rate

Water Service, Clean Basket, 1/32" to 1/4" Perforated Screen*



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Technical Information

Installation and Maintenance Instructions

Installation Instructions

- Ensure all machined surfaces are free of defects and that the inside of the valve is free of foreign objects.
- The valve should be installed on the discharge side of the pump with the flow arrow pointed away from the pump discharge.
- Minimum recommended space for pump sizes 2" through 6" is 12". Minimum recommended space for pump sizes 8" through 14" is 24".
- It is not recommended to mount a valve directly to the pump.
- Sufficient clearance should be left around the valve for removal and/or repair.
- Valve should be mounted with the stem pointing up to facilitate proper seating of the valve disc.
- When connecting the valve to the line be sure that the flanges are the same – flat face to flat face. Flat face flanges require full face gaskets. The specified face-to-face dimension of the valve is approximate due to machining tolerances. Allow adjustment in prefabricated piping or request certified dimensions.
- Check to see that flange gaskets are properly positioned before tightening the bolts. Tighten bolts gradually in a back and forth clockwise motion.
- Once installed, “crack” the valve open before starting the pump.
- Gradually adjust the stem until the proper flow rate is reached. Tapped ports are provided on the valve to insert equipment to measure the valve pressure differential.

Maintenance Instructions

- Before starting, make a note of the position of the stem indicator.
- Shut down the pump and close the isolation valves.
- Open the valve completely so that the stem back seats against the inside of the yoke cover. Loosen the two nuts holding the flanged gland.
- Remove the old packing and clean out the packing box. Place a set (usually three or four) of the new packing rings around the stem. Be sure to stagger the 45 degrees split in the packing rings. Press packing rings into the packing box.
- Replace the flanged gland and nuts. Do not over tighten or the stem may seize.
- Adjust the valve stem indicator to its original position. If there is any leakage around the packing tighten both gland nuts a 1/4 turn at a time until the leakage stops. It is very important that the gland nuts be tightened evenly.
- For all other maintenance please contact the factory.

WARNING

This product operates in pipelines or with equipment that carries fluids and/or gases at elevated temperatures and pressures. Caution should be taken to make sure that this equipment is installed correctly and inspected regularly. Caution should also be taken to protect personnel from fluid or gas leakage.

Overview



Sizes
2" to 24"



Temperature
up to 600°F



Pressure
up to 1480 PSIG



Applications

- Process Industry
- Power Industry
- Chemical Industry
- Oil & Gas
- Metals & Mining
- Water & Waste
- Pulp & Paper

Features

- Compact design
- Low pressure loss
- Minimal installation costs

End Connections

- Wafer Flat Face
- Wafer Raised Face

Body Materials

- Cast Iron
- Carbon Steel
- Stainless Steel

Seat Materials

- Buna-N
- EPDM
- Viton
- Metal to Metal

ASME Ratings

- Class 125
- Class 150
- Class 300
- Class 600

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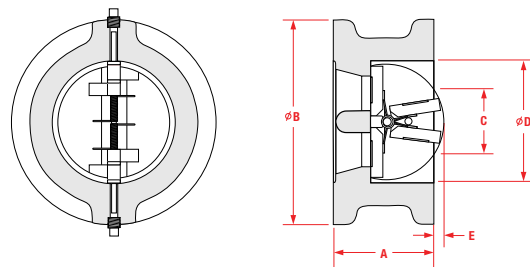
Design Features

Design Advantage

The short face to face design inherently makes this check valve significantly lighter (10% of the weight of a conventional swing check). The valve is designed to fit between two flanges and requires no flanges of its own. The double door check valve can be installed in any position as the spring aids in keeping the valve closed (Consult factory for vertical downward flow). These features allow you to design your piping layout in the most efficient and least expensive fashion.

Shock Bumpers

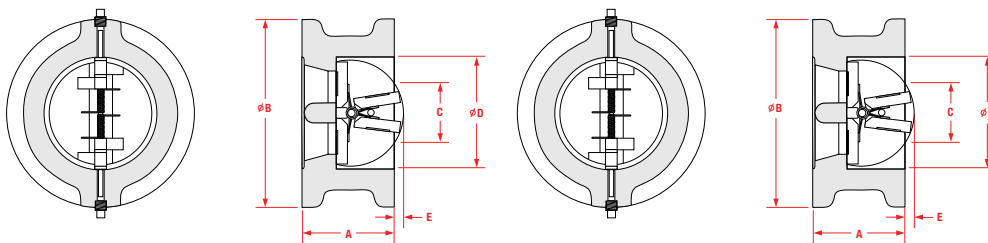
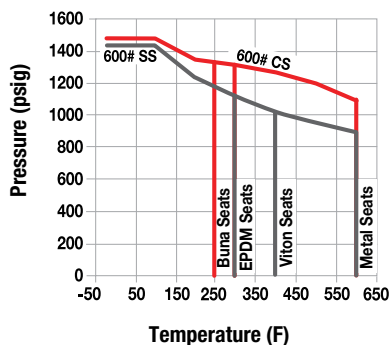
An integral cast bumper is present on all Series WT double door check valves (Except class 125 Lb.). The bumpers can be found on both discs, which meet when the valve reaches a fully open position. This design feature prevents the discs from pressing against the stop pin and eliminates leverage that would cause unnecessary stresses and wear. The purpose of the stop pin is to prevent over travel of either disc, which would result in valve failure.



Resilient Seat

The basic design of the Series WT double door check valve is illustrated in Fig. 2. This seal is chemically bonded using specially designed adhesives that provide rubber tearing bonds throughout the operating range of the seat material. In case of resilient seat failure, the design permits the doors to float and make contact with the metal surface the seats were adhered to. This feature allows the valve to function even if the resilient seat is not present. The seat design illustrated in Fig. 3 is also available. This design results in a controlled seat squeeze and provides a metal to metal backup seal (Fig.4).

Pressure / Temperature Chart
ASME B16.34



Design Features

Minimal Seat Wear

The Series WT double door check valve was designed to eliminate the possibility of seat wear caused by friction at the heel of the double doors while maintaining low back pressure sealing capabilities. The clearance between the body, disc and hinge pin results in the discs cracking open at the heel location first. When the valve opens the heel does not drag across the seating surface and cause wear. As the valve closes, the spring will take the toe of the disc into the seating surface first, while the line back pressure will force the heels and hinge pin back to the seat to complete the seal.

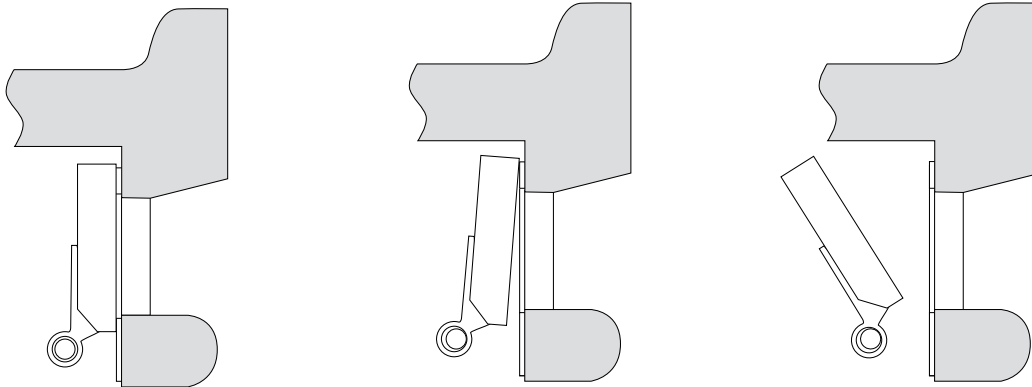


FIGURE 5

Spring Closing

The specially designed torsion spring in the Series WT double door check valve holds the valve discs closed under no flow conditions (Consult factory for vertical downward flow). Pipeline flow (head) causes the discs to open and conversely when flow decays to a point near zero velocity, the force from the legs of the torsion spring instantly closes the valve discs for non-slam shutoff. The Series WT double door check valve comes complete with corrosion resistant stainless steel springs as standard.

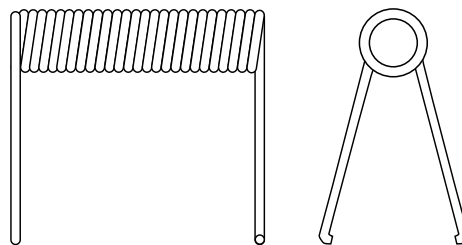


FIGURE 6

125WT Series

How to Order

1	Inlet Size					2	Model						3	Seat		4	Spring
	1	0	0	0	-		1	2	5	W	T	I	B	B	-		T

1	Inlet Size					
0200	2"	0600	6"	1600	16"	
0250	2½"	0800	8"	1800	18"	
0300	3"	1000	10"	2000	20"	
0400	4"	1200	12"	2400	24"	
0500	5"	1400	14"			

2	Model
125WTIB	Cast Iron Body & Bronze Disc
125WTIT	Cast Iron Body & Stainless Steel Disc

Features

- ASME Class 125 rated Check Valves
- Wafer body style fits between FF or RF flanges
- Teflon thrust washers
- Resilient Buna-N seats
- Seat design lifts then swings discs to minimize seat wear
- Independent springs optimizes valve plate closing rates while minimizing spring stress
- Lifting lug tap on all valves 6" and larger

Flow Coefficient Values (Cv)*

* US-GPM @ 1 PSID

Valve Size													
2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
60	100	170	340	520	850	1600	2400	3800	4400	5800	7500	9800	15000



Sizes

2" to 24"



Pressure

up to 200 PSIG
(13.8 BARG)



Temperature

up to 250°F
(121°C)



Applications

Process Industry | Power Industry | Chemical Industry
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper

Applicable Codes (designed in accordance with)

- ASME Sec VIII and B16.1 Bodies
- API 598
- FM approved 30246911 (2"-10" only)

Models

- 125WTIB - Cast Iron Body, Bronze Disc, Buna Seat
- 125WTIT - Cast Iron Body, Stainless Steel Disc, Buna Seat

Options

- EPDM Seats
- Other Spring Material

Canadian Registration - OE10274.5C

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125WT Series



Sizes
2" to 24"



Pressure Rating
200 PSIG (13.8 BARG)



Temperature Rating
250° F (121° C)



End Connections
Wafer Flanged



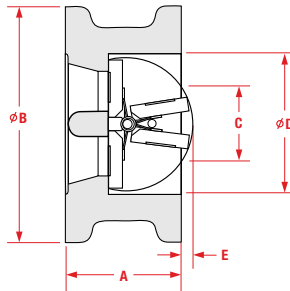
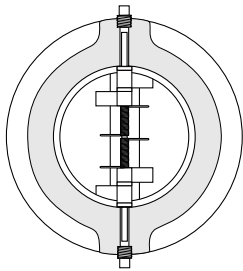
Cracking Pressures
Horizontal - 0.3 PSID
Vertical - 0.75 PSID

Description

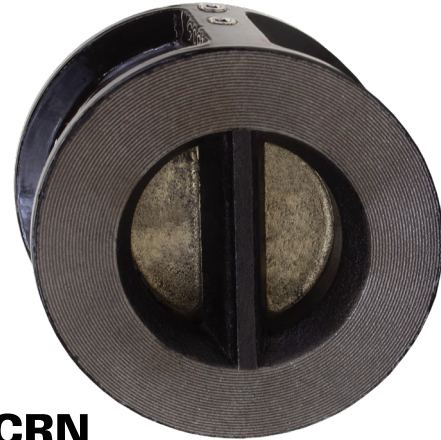
Elite Valve manufactures stainless steel double door check valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. Elite Valve stainless steel double door check valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Features

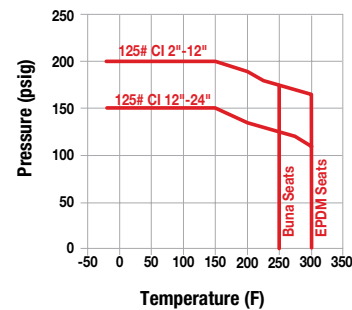
- Wafer body style fits between FF or RF flanges
- Teflon thrust washers
- Resilient Buna-N seat design lifts then swing discs to minimize seat wear
- Independent springs optimize valve plate closing rates while minimizing spring stress
- Lifting lug tap on all valves 6" and larger



CRN



Pressure / Temperature Chart
ASME B16.1



Dimensions																			
Size		A		B*		C1		D		E		Stud Selection						Weight	
												Qty	Diameter		Length				
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	inch	mm	lbs	kg	
2"	50	2.13	54	4.13	105	2	51	2.38	60	0.13	3	4	0.63	16	5.50	140	3	1.4	
2½"	65	2.13	54	4.88	124	2.5	64	2.88	73	0.50	13	4	0.63	16	6.00	152	5	2.3	
3"	80	2.25	57	5.38	137	3	76	3.50	89	0.63	16	4	0.63	16	6.25	159	8	3.6	
4"	100	2.50	64	6.88	175	4	102	4.50	114	1.00	25	8	0.63	16	6.25	159	13	5.9	
5"	125	2.75	70	7.75	197	5	127	4.50	140	1.25	32	8	0.75	19	7.00	184	16	7.3	
6"	150	3.00	76	8.75	222	6	152	6.63	168	1.63	41	8	0.75	19	8.00	203	20	9.8	
8"	200	3.75	95	11.00	279	8	203	8.63	219	2.38	60	8	0.75	19	9.50	241	37	16.8	
10"	250	4.25	108	13.38	340	10	254	10.75	273	3.00	76	12	0.88	22	10.50	267	57	25.9	
12"	300	5.63	143	16.13	410	12	305	12.75	324	3.88	99	12	0.88	22	12.25	311	93	42.2	
14"	350	7.25	184	17.75	451	12.5	318	14.00	356	4.00	102	12	1.00	25	13.00	330	205	93.1	
16"	400	7.50	191	20.25	514	15	381	16.00	406	5.25	133	16	1.00	25	13.50	343	271	123.0	
18"	450	8.00	203	21.63	549	17	432	18.00	457	6.00	152	16	1.13	29	14.50	368	310	140.7	
20"	500	8.38	213	23.88	606	19	483	20.00	508	6.88	175	20	1.13	29	15.25	387	377	171.2	
24"	600	8.75	222	28.25	718	22.75	578	24.00	610	8.25	210	20	1.25	32	16.25	413	551	250.2	

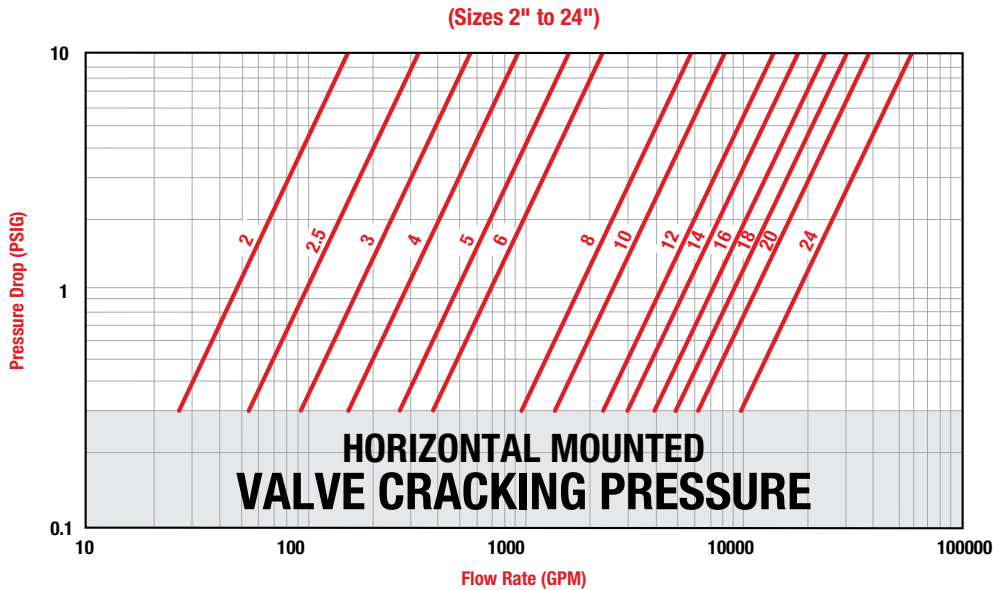
* Add the "B" dimensions and the diameter of the stud to achieve the ANSI B16.1 bolt hole circle diameter | 1 Minimum bore diameter of companion flanges
Dimensions shown are subject to change. Consult factory for certified drawings when required.

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Materials	
Part	Material
Body	A126-B
Discs	Al/Bz B148 C954 or 316SS A351-CF8M
Seat	Buna-N
Spring	316SS

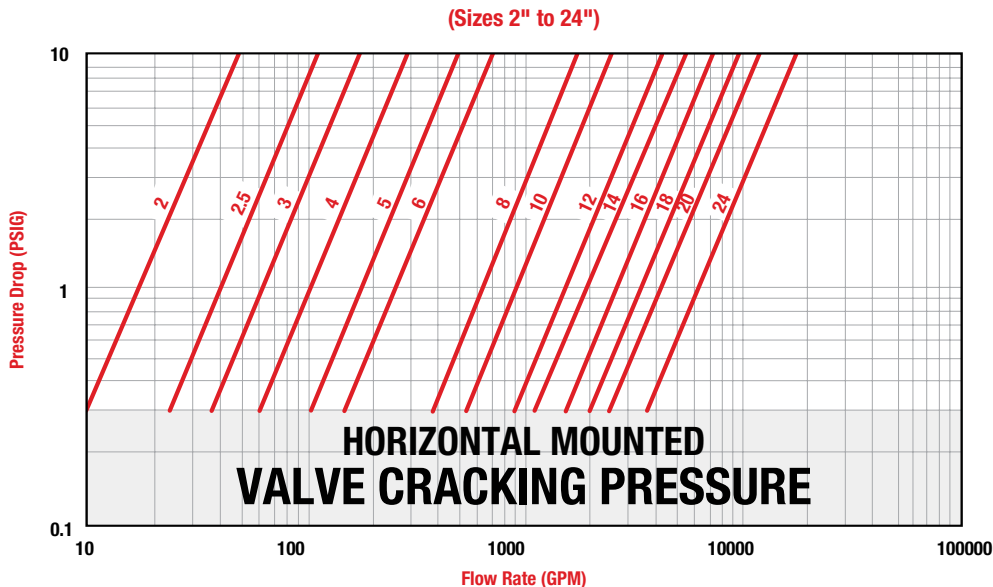
125WT Series

Pressure Drop - Liquids



- Pressure drop curves are based on water flow
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards

Pressure Drop - Air



- Pressure drop curves are based on air flow at 60°F and 1 ATM pressure
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards

1 For correct installation and maintenance please see our I&M manual | 2 Horizontal installation – Disc pin must be installed in vertical position | 3 Vertical installation (downward flow) – Consult factory

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150WT Series

How to Order

1	2	3	4
Inlet Size	Model	Seat	Spring
0 8 0 0	1 5 0 W T C T	B	T

1	Inlet Size			
0600	6"	1000	10"	
0800	8"	1200	12"	

2	Model			
150WTCT	Carbon Steel Body			
150WTTT	Stainless Steel Body			

Features

- ASME Class 150 rated check valves
- Wafer body style fits between FF or RF flanges
- Size 6" and larger are supplied with a valve lifting lug
- Upper and lower SS thrust washers
- Resilient Buna-N, Viton and metal seats
- Seat design lifts then swings discs to minimize seat wear
- Shock bumpers minimize stresses in hinge pins
- Independent springs optimizes valve plate closing rates while minimizing spring stress
- Dual rating 2" - 3" 150#, 300# and 600# Classes
- Dual ratings 4" 150# and 300# Classes

Applicable Codes (designed in accordance with)

- ASME B16.34 ratings
- API 594
- API 598

Models

- 150WTCT – Cast Steel Body, Stainless Steel Disc, Buna Seat
- 150WTTT – Stainless Steel Body, Stainless Steel Disc, Metal or Viton Seat

Options

- EPDM Seats
- Other Spring Material

Canadian Registration - OC10274.5C

Flow Coefficient Values (Cv)*

* US-GPM @ 1 PSID

Valve Size			
6"	8"	10"	12"
705	1795	2563	4295

* 150WTCT - Buna-N seat only 150WTTT - Viton or Metal seat



Sizes

6" to 12"



Pressure

up to 285 PSIG
(19.7 BARG)

Temperature

up to 600°F
(316°C)

Applications

Process Industry | Power Industry | Chemical Industry
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper

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150WT Series



Sizes
6" to 12"



Pressure Rating
285 PSIG (19.7 BARG)



Temperature Rating
600° F (316° C)



End Connections
Wafer Flanged



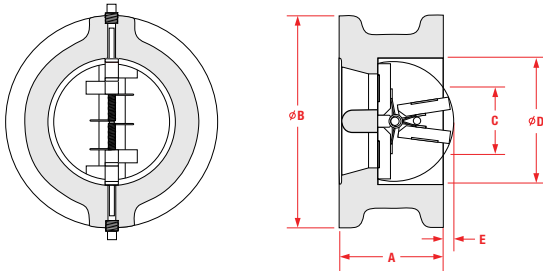
Cracking Pressures
Horizontal - 0.3 PSID
Vertical - 0.75 PSID

Description

Elite Valve manufactures carbon steel double door check valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. Elite Valve carbon steel double door check valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Features

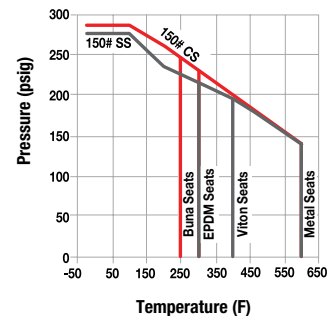
- Wafer body style fits between FF or RF flanges
- Supplied with a valve lifting lug
- Upper and lower SS thrust washers
- Resilient Buna-N, Viton and metal seats
- Seat design lifts then swings discs to minimize seat wear
- Shock bumpers minimize stresses in hinge pins
- Independent springs optimizes valve plate closing rates while minimizing spring stress
- Dual rating 2"-3" 150#, 300# and 600# Classes
- Dual ratings 4" 150# and 300# Classes



CRN



Pressure / Temperature Chart
ASME B16.34



Dimensions

Size		A1		B*		C2		D		E		Qty	Stud Selection				Weight	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	inch	mm	lbs	kg
2 ³	50					Use 2" 600WT-150# on page 117-118												
2½ ³	66					Use 2½" 600WT-150# on page 117-118												
3 ³	80					Use 2" 600WT-150# on page 117-118												
4 ⁴	100					Use 4" 300WT-150# on page 113-114												
6"	150	3.88	99	8.75	222	5.38	137	6.63	168	1.38	35	8	0.75	19	8.25	210	35	15.9
8"	200	5.00	127	11.00	279	7.38	187	8.63	219	2.00	51	8	0.75	19	9.75	248	70	31.8
10"	250	5.75	146	13.38	340	9.50	241	10.75	273	2.88	73	12	0.88	22	11	279	114	51.8
12"	300	7.13	181	16.13	410	11.25	286	12.75	324	3.38	86	12	0.88	22	12.25	311	180	81.8

Materials

Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Discs	A351-CF8M	A351-CF8M
Seat	Buna-N	Viton or Metal
Spring	316SS	316SS

1 Dimensions in accordance with API 594 | 2 Minimum bore diameter of companion flanges | 3 Sizes 2", 2½", 3" 150WT, 300WT & 600WT are interchangeable, use 600WT for all applications in these sizes

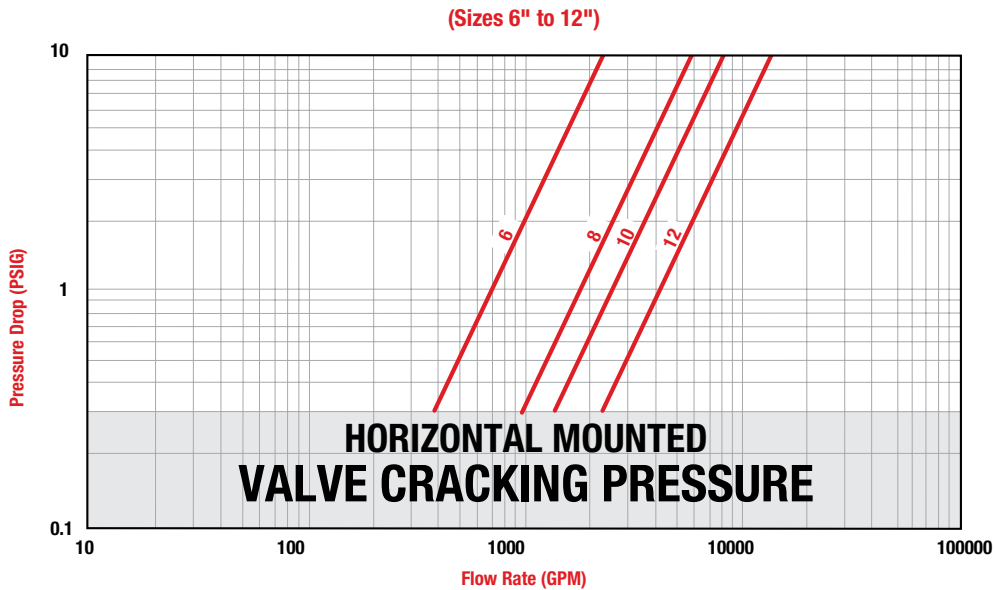
4 Size 4", 150WT & 300WT are interchangeable, use 300WT for 4" size | Dimensions shown are subject to change. Consult factory for certified drawings when required.

* Add the "B" dimension and the diameter of the stud to achieve the ANSI B16.5 bolt hole circle diameter

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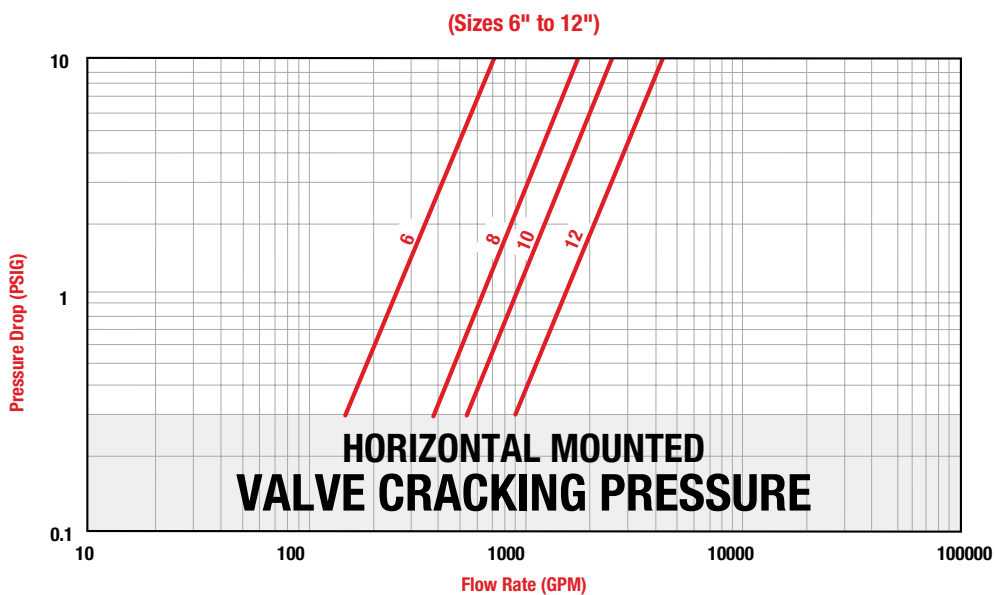
150WT Series

Pressure Drop - Liquids



- Pressure drop curves are based on water flow
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards

Pressure Drop - Air



- Pressure drop curves are based on air flow at 60°F and 1 ATM pressure
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards

1 For correct installation and maintenance please see our I&M manual | 2 Horizontal installation – Disc pin must be installed in vertical position | 3 Vertical installation (downward flow) – Consult factory

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300WT Series

How to Order

1	2	3	4
Inlet Size	Model	Seat	Spring
0 6 0 0	3 0 0 W T C T	B	T

1	Inlet Size			
0400	4"	1000	10"	
0600	6"	1200	12"	
0800	8"			

2	Model
300WTCT	Carbon Steel Body
300WTTT	Stainless Steel Body

Features

- ASME Class 300 rated check valves
- Wafer body style fits between FF or RF flanges
- Size 6" and larger are supplied with a valve lifting lug
- Upper and lower SS thrust washers
- Resilient Buna-N and Viton
- Seat design lifts then swings discs to minimize seat wear
- Shock bumpers minimize stresses in hinge pins
- Independent springs optimizes valve plate closing rates while minimizing spring stress
- Dual rating 2" - 3" 150#, 300# and 600#
- Dual ratings 4" 150# and 300#

Applicable Codes (designed in accordance with)

- ASME B16.34 ratings
- API 594
- API 598

Models

- 300WTCT – Cast Steel Body, Stainless Steel Disc, Buna Seat
- 300WTTT – Stainless Steel Body, Stainless Steel Disc, Viton Seat

Options

- EPDM Seats
- Other Spring Material

Canadian Registration - OC10274.5C

Flow Coefficient Values (Cv)*

* US-GPM @ 1 PSID

Valve Size					
4"	5"	6"	8"	10"	12"
291	494	705	1795	2563	4295

* 300WTCT - Buna-N seat only 300WTTT - Viton seat only



Sizes

4" to 12"



Pressure

up to 740 PSIG
(51 BARG)



Temperature

up to 600°F
(316°C)



Applications

Process Industry | Power Industry | Chemical Industry
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper

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300WT Series



Sizes
4" to 12"



Pressure Rating
740 PSIG (51 BARG)



Temperature Rating
600° F (316° C)



End Connections
Wafer Flanged



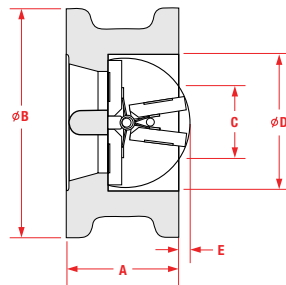
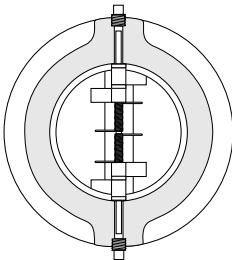
Cracking Pressures
Horizontal - 0.3 PSID
Vertical - 0.75 PSID

Description

Elite Valve manufactures carbon steel double door check valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. Elite Valve carbon steel double door check valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Features

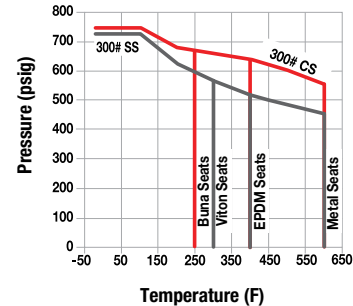
- Wafer body style fits between FF or RF flanges
- Supplied with a valve lifting lug
- Upper and lower SS thrust washers
- Resilient Buna-N and Viton seats
- Seat design lifts then swings discs to minimize seat wear
- Shock bumpers minimize stresses in hinge pins
- Independent springs optimizes valve plate closing rates while minimizing spring stress
- Dual rating 2"-3" 150#, 300# and 600# Classes
- Dual ratings 4" 150# and 300# Classes



CRN



Pressure / Temperature Chart
ASME B16.34



Dimensions																			
Size			A1		B*		C2			D		E		Stud Selection				Weight	
														Qty	Diameter		Length		
inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		mm	inch	mm	lbs	kg
2" ³	50	-																	
Use 2" 600WT-300# on page 117-118																			
2½" ³	66	-																	
Use 2½" 600WT-300# on page 117-118																			
3" ³	80	-																	
Use 2" 600WT-300# on page 117-118																			
4" ⁴	100	150WT	2.88	73	6.88	175	3.38	86	4.50	114	0.75	19	8	0.63	16	7	178	18	8.2
		300WT	2.88	73	7.13	181	3.38	86	4.50	114	0.75	19	8	0.75	19	8.13	207	18	8.2
6"	150	-	3.88	99	9.88	251	5.38	137	6.63	168	1.38	35	12	0.75	19	9.63	245	44	20.0
8"	200	-	5.00	127	12.13	308	7.38	187	8.63	219	2.00	51	12	0.88	22	11.25	286	75	34.0
10"	250	-	5.75	146	14.25	362	9.50	241	10.50	273	2.88	73	16	1.00	25	12.75	324	123	55.8
12"	300	-	7.13	181	16.63	422	11.25	286	12.75	324	3.38	86	16	1.13	29	14.63	372	196	89.0

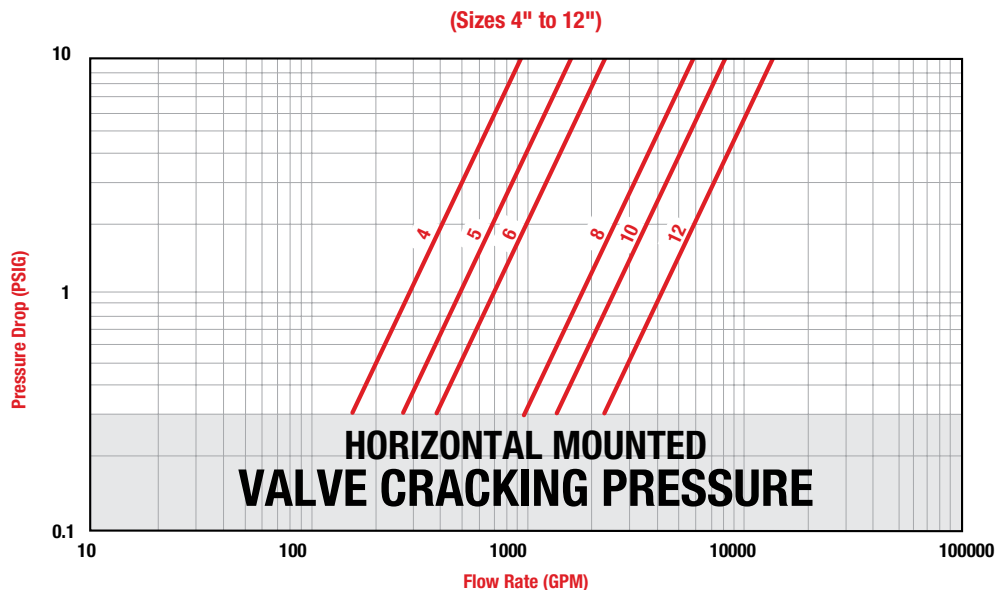
Materials		
Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Discs	A351-CF8M	A351-CF8M
Seat	Buna-N	Viton
Spring	316 SS	316 SS

1 Dimensions in accordance with API 594 | 2 Minimum bore diameter of companion flanges | 3 Sizes 2", 2½", 3" 150WT, 300WT & 600WT are interchangeable, use 600WT for all applications in these sizes
4 Size 4", 150WT & 300WT are interchangeable, use 300WT for 4" size - 4" sizes fit between both 150# & 300# flanges | Dimensions shown are subject to change. Consult factory for certified drawings when required.
* Add the "B" dimension and the diameter of the stud to achieve the ANSI B16.5 bolt hole circle diameter

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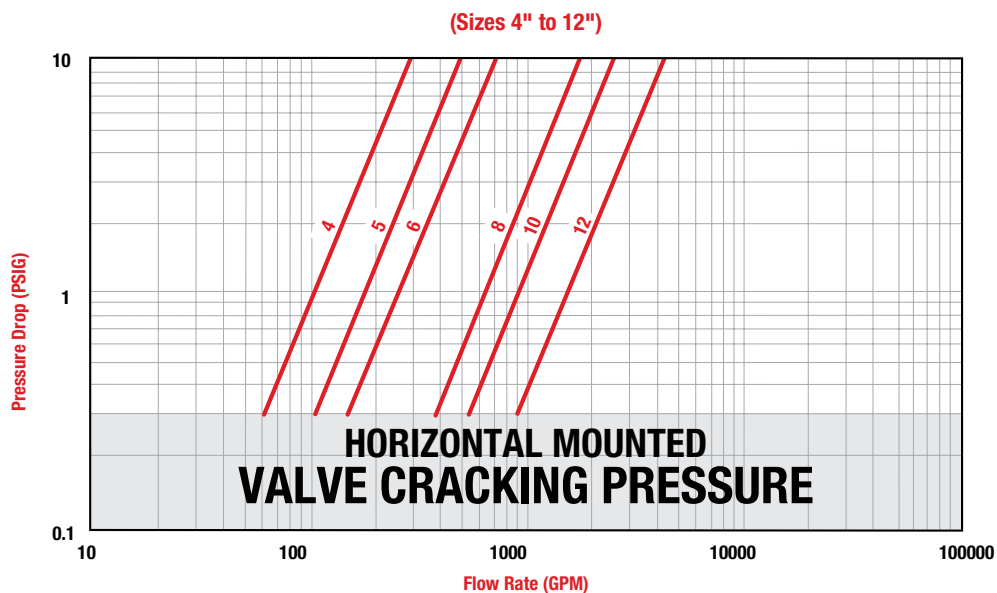
300WT Series

Pressure Drop - Liquids



- Pressure drop curves are based on water flow
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards

Pressure Drop - Air



- Pressure drop curves are based on air flow at 60°F and 1 ATM pressure
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards

1 For correct installation and maintenance please see our I&M manual | 2 Horizontal installation – Disc pin must be installed in vertical position | 3 Vertical installation (downward flow) – Consult factory

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600WT Series

How to Order

1 Inlet Size				2 Model				3 Seat		4 Spring	
0	2	0	0	-	6	0	0	W	T	T	T
								V	-	T	

1	Inlet Size		
0200	2"	3000	3"
0250	2½"		

2	Model
600WTCT	Carbon Steel Body
600WTTT	Stainless Steel Body

Features

- ASME Class 600 rated check valves
- Wafer body style fits between FF or RF flanges
- Upper and lower SS thrust washers
- Resilient Buna-N and Viton
- Seat design lifts then swings discs to minimize seat wear
- Shock bumpers minimize stresses in hinge pins
- Independent springs optimizes valve plate closing rates while minimizing spring stress
- Dual rating 2" - 3" 150#, 300# and 600#

3	Seat*	
B	Buna-N (CS Body only)	V
M	Metal (SS Body only)	

4	Spring
T	Stainless Steel

Applicable Codes (designed in accordance with)

- ASME B16.34 ratings
- API 594
- API 598

Models

- 600WTCT – Cast Steel Body, Stainless Steel Disc, Buna Seat
- 600WTTT – Stainless Steel Body, Stainless Steel Disc, Metal or Viton Seat

Options

- EPDM Seats
- Other Spring Material

Canadian Registration - OC10274.5C

Flow Coefficient Values (Cv)*

* US-GPM @ 1 PSID

Valve Size		
2"	2½"	3"
48	90	171

* 300WTCT - Buna-N seat only 300WTTT - Viton seat only



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600WT Series

 Sizes 2" to 3"	 Pressure Rating 1480 PSIG (101.9 BARG)	 Temperature Rating 600° F (316° C)	 End Connections Wafer Flanged	 Cracking Pressures Horizontal - 0.3 PSID Vertical - 0.75 to 1.25 PSID
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Description

Elite Valve manufactures carbon steel double door check valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. Elite Valve carbon steel double door check valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

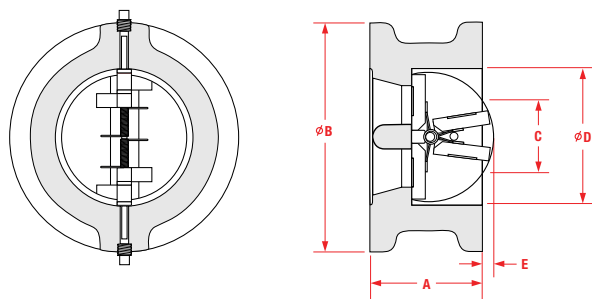
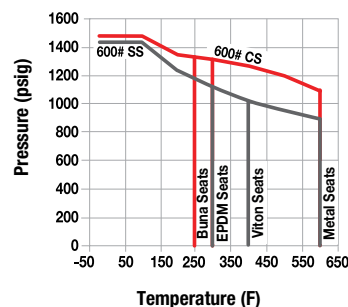
Features

- Wafer body style fits between FF or RF flanges
- Upper and lower SS thrust washers
- Resilient Buna-N, Viton and metal seats
- Seat design lifts then swings discs to minimize seat wear
- Shock bumpers minimize stresses in hinge pins
- Independent springs optimizes valve plate closing rates while minimizing spring stress
- Dual ratings 2"-3" 150#, 300# and 600#



CRN

Pressure / Temperature Chart
ASME B16.34



Dimensions																			
Size			A1		B*		C2		D		E		Qty	Stud Selection				Weight	
														Diameter		Length			
inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	inch	mm	lbs	kg
2 ^³	50	150#	2.38	60	4.13	105	–	–	2.38	60	–	–	4	0.63	15.9	6.00	152	6	2.7
		300#/ 600#	2.38	60	4.38	111	–	–	2.38	60	–	–	8	0.63	15.9	6.88	175	6	2.7
2½ ^²	65	150#	2.63	67	4.88	124	2	51	3.00	77	0.25	6	4	0.63	15.9	6.25	159	10	4.5
		300#/ 600#	2.63	67	5.13	130	2	51	3.00	77	0.25	6	8	0.75	19	7.50	190	10	4.5
3 ^³	80	150#	2.88	73	5.38	137	2	51	3.50	89	0.25	6	4	0.63	15.9	7.00	178	13	5.9
		300#/ 600#	2.88	73	5.88	149	2	51	3.50	89	0.25	6	8	0.75	19	8.13	207	13	5.9

Materials		
Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Discs	A351-CF8M	A351-CF8M
Seat	Buna-N	Viton or Metal
Spring	316 SS	316 SS

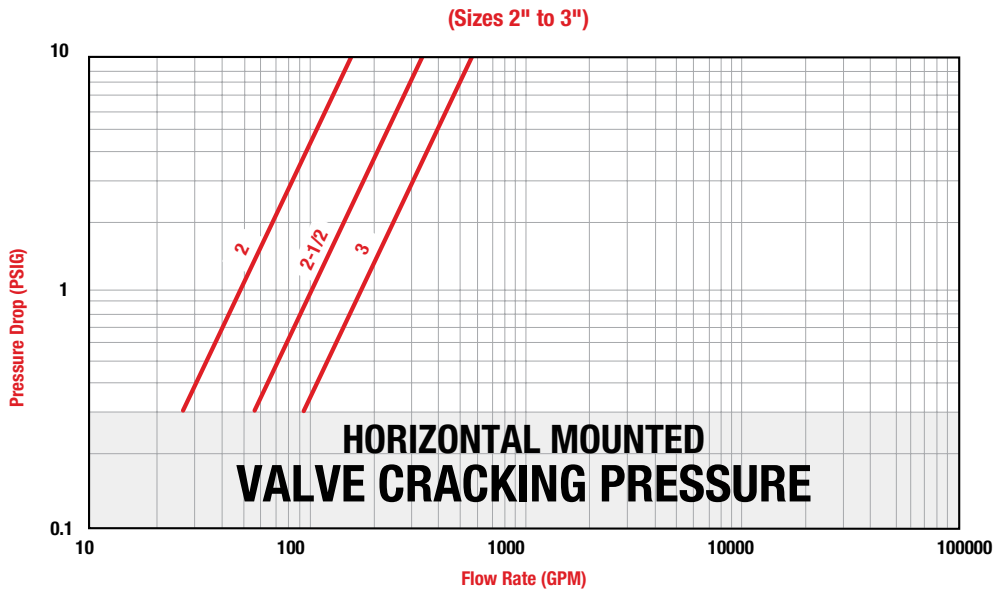
1 Dimensions in accordance with API 594 | 2 Minimum bore diameter of companion flanges | 3 300WT and 600WT are interchangeable, use 600WT for both applications

* Add the "B" dimension and the diameter of the stud to achieve the ANSI B16.5 bolt hole circle diameter | Dimensions shown are subject to change. Consult factory for certified drawings when required.

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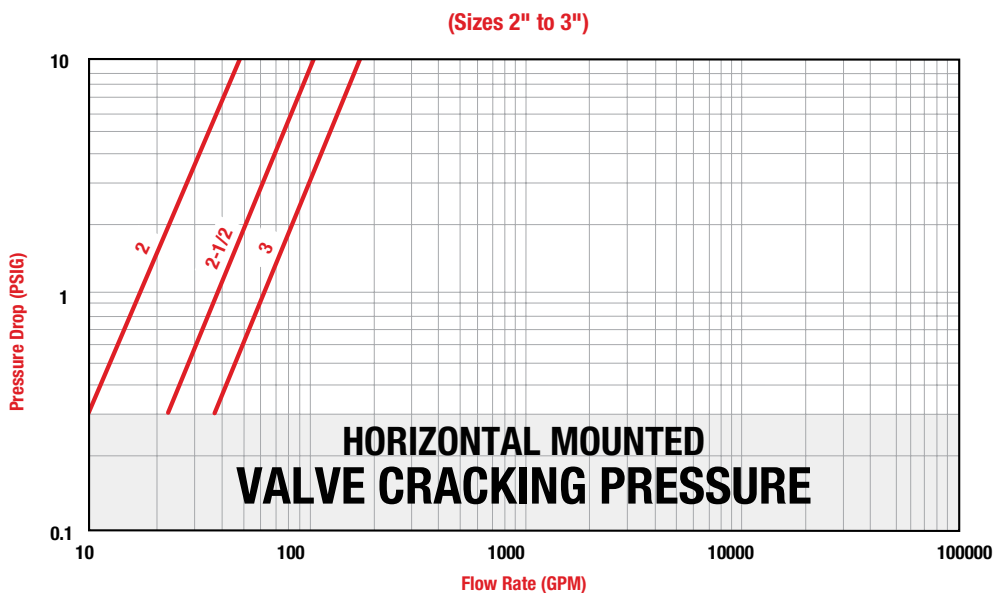
600WT Series

Pressure Drop - Liquids



- Pressure drop curves are based on water flow
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards

Pressure Drop - Air



- Pressure drop curves are based on air flow at 60°F and 1 ATM pressure
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards

1 For correct installation and maintenance please see our I&M manual | 2 Horizontal installation – Disc pin must be installed in vertical position | 3 Vertical installation (downward flow) – Consult factory

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Technical Information

Valve Location & Orientation in Piping

Check valves should be installed, if possible, a minimum of 6 pipe diameters from other line elements, i.e. elbows, pumps, valves, etc.

Horizontal Lines

- Valves installed in horizontal lines must be bolted in place with the hinge post in the vertical position, i.e. in such a manner that the hinge pin retainers are at the top and bottom of the installed valve, perpendicular to the flow.

Vertical Lines

- In the upward position, no special attention needs to be given to the hinge post position. The only exception being when mounted directly downstream of an elbow. In this case, the hinge post should be mounted perpendicular to the outermost portion of the elbow. Consult factory for vertical down flow applications.

Precautions

- Do not install Series WT check valves directly against another valve whereby the check valve discharges downstream directly into the valve.
- Do not install the valve whereby it directly discharges downstream into a tee or elbow fitting.
- Series WT check valves should not be used in severe pulsating services such as reciprocating compressor discharges.
- It is recommended that the check valves be installed a minimum of three pipe diameters downstream of a pump or compressor.

Maintenance

- Elite Valve Series WT check valves are permanently lubricated and normally require no routine maintenance.

WARNING

This product operates in pipelines or with equipment that carries fluids and/or gases at elevated temperatures and pressures. Caution should be taken to make sure that this equipment is installed correctly and inspected regularly. Caution should also be taken to protect personnel from fluid or gas leakage.

Reconditioning

IMPORTANT! BEFORE DISASSEMBLY, VALVE MUST FIRST BE ISOLATED FROM SYSTEM PRESSURE AND FLOW.

Disc & Shaft Removal

CAUTION! BEFORE ATTEMPTING THE FOLLOWING SHAFT EXTRACTION, BE SURE TO PRESS A HAND OVER THE DISC SPRING. FAILURE TO DO THIS MAY RESULT IN PERSONAL INJURY DUE TO THE SPRING “LAUNCHING” ITSELF UNEXPECTEDLY ONCE THE SHAFT IS PULLED FREE OF IT.

- After observing the above precaution, remove the valve from the pipeline and lay flat with open, body cavity side facing up. Remove pipe plugs from top and bottom of body with a wrench. Insert a punch and lightly tap the top of the shaft until it is accessible on the other side of the body. Pull shaft through body to remove. The internals of the valve are now ready to be cleaned and inspected.

Reassembly

- Use new replacement parts, as required and a liberal amount of general-purpose grease (such as Mystic JT-6) on seals and machined mating surfaces. Reinsert the disc into the body cavity with the shaft holes in-line with top and bottom shaft port. Slide the shaft into the body through the shaft opening on one side of the valve. Continue sliding the shaft through the disc, spring and remaining shaft port the opposite side of the body. Install pipe plugs into the body using a good industrial grade thread sealant compound

Overview



Sizes
2" to 12"



Temperature
up to 400°F



Pressure
up to 740 PSIG



Applications

- Process Industry
- Power Industry
- Chemical Industry
- Oil & Gas
- Metals & Mining
- Water & Waste
- Pulp & Paper

Features

- Silent non-slam closure
- Wafer body style
- Reduces surge and water hammer

End Connections

- Wafer Flat Faced
- Wafer Raised Face

Body Materials

- Cast Iron
- Carbon Steel
- Stainless Steel

Disc Materials

- Bronze
- Stainless Steel

Materials

- Cast Iron
- Carbon Steel
- Stainless Steel

ASME Ratings

- Class 125
- Class 150
- Class 300

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125WC Series

How to Order

1
Inlet Size

0 8 0 0

2
Model

1 2 5 W C I B

3
Seat

M

4
Spring

T

1	Inlet Size					
0200	2"	0400	4"	0800	8"	
0250	2½"	0500	5"	1000	10"	
0300	3"	0600	6"	1200	12"	

2	Model
125WCIB	Cast Iron Body, Bronze Disc
125WCIT	Cast Iron Body, Stainless Steel Disc

Features

- ASME Class 125 rated check valves
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Compact face to face length for space saving
- Wafer body style fits between FF or RF flanges

Applicable Codes (designed in accordance with)

- ASME Sec VIII and B16.1 Bodies
- API 598

Models

- 125WCIB - Cast Iron Body, Bronze Disc
- 125WCIT - Cast Iron Body, Stainless Steel Disc

Options

- EPDM Seats
- Other Spring Material
- Heavier or Lighter Springs

Canadian Registration - OC10274.5C

Flow Coefficient Values (Cv)

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
2"	51	58	73
2½"	84	90	106
3"	119	134	168
4"	179	210	285
5"	265	300	391
6"	383	430	548
8"	639	740	964
10"	1114	1250	1581
12"	1604	1800	2277



Sizes
2" to 12"



Pressure
up to 200 PSIG
(13.8 BARG)



Temperature
up to 300°F
(149°C)



Applications

Process Industry | Power Industry | Chemical Industry
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper

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125WC Series



Sizes
2" to 12"



Pressure Rating
200 PSIG (13.8 BARG)



Temperature Rating
300° F (149° C)



End Connections
Wafer Flanged



Cracking Pressures
Horizontal - 0.3 PSID
Vertical - 0.75 to 1.25 PSID

Description

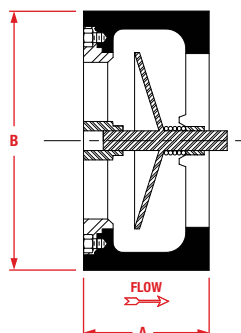
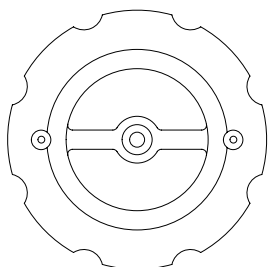
Elite Valve manufactures cast iron silent check valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. Elite Valve cast iron silent check valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Features

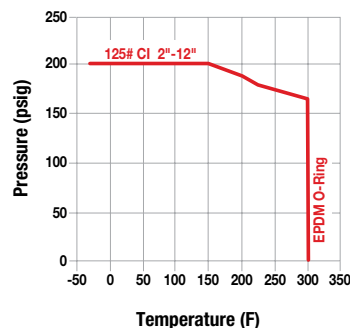
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Compact face to face length for space saving
- Wafer body style fits between FF or RF flanges



CRN



**Pressure / Temperature Chart
ASME B16.1**



Dimensions												
Size		A		B*		Qty	Stud Selection				Weight	
							Diameter		Length			
inch	mm	inch	mm	inch	mm		inch	mm	inch	mm	lbs	kg
2"	50	2.69	68	4.13	105	4	0.63	16	6.50	165	5	2.3
2½"	65	2.88	73	4.88	124	4	0.63	16	6.75	171	8	3.6
3"	80	3.19	81	5.38	137	4	0.63	16	7.00	178	10	4.5
4"	100	4.00	103	6.88	175	8	0.63	16	8.00	203	19	8.6
5"	125	4.63	118	7.75	197	8	0.75	19	8.75	222	30	13.6
6"	150	5.56	142	8.75	222	8	0.75	19	10.50	267	42	19.1
8"	200	6.50	165	11.00	279	8	0.75	19	11.25	286	87	39.5
10"	250	8.22	209	13.38	340	12	0.88	22	12.25	311	146	66.2
12"	300	11.25	286	16.13	410	12	0.88	22	16.50	419	304	137.9

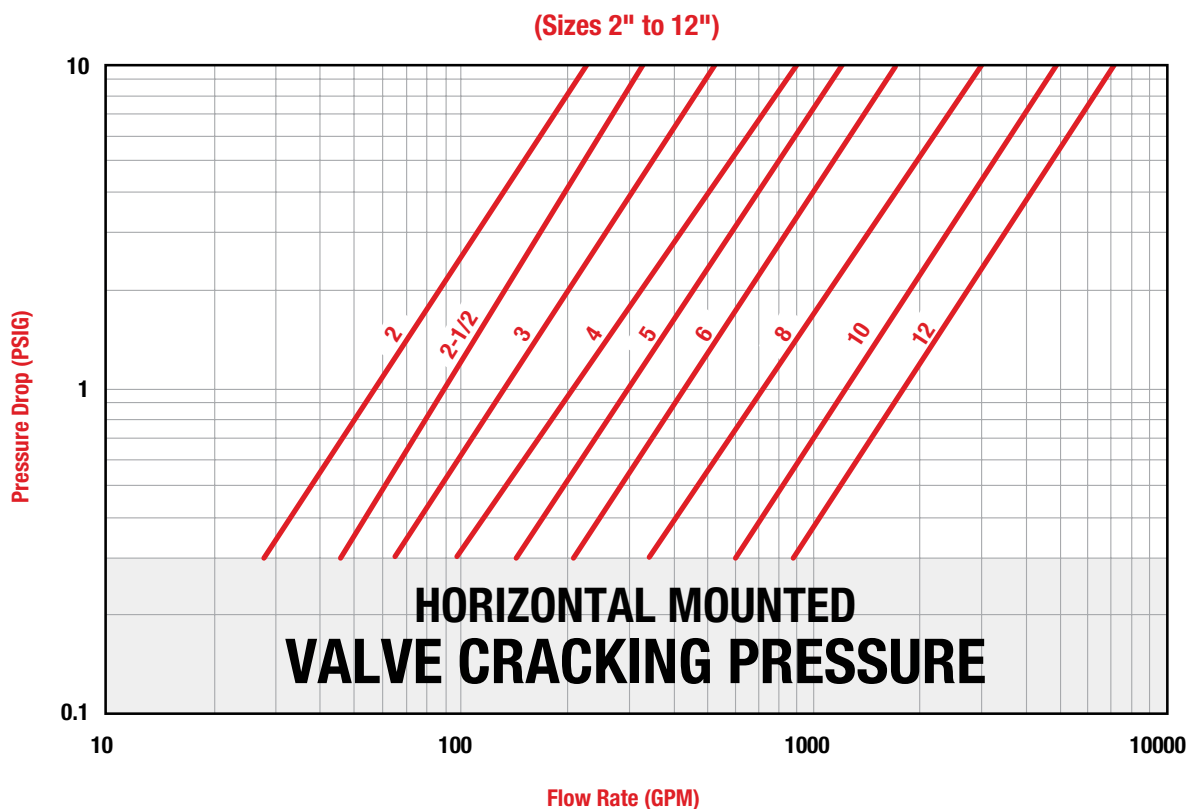
Materials	
Part	Material
Body	A126-B
Discs	Al/Bz B148 C954 or 316SS A351-CF8M
Seat	Bronze or Stainless Steel
Spring	316 SS
O-Ring	EPDM

* Add the "B" dimension and the diameter of the stud to achieve the ANSI B16.5 Bolt Hole Circle Diameter | Dimensions shown are subject to change. Consult factory for certified drawings when required.

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125WC Series

Pressure Drop VS. Flow Rate



- Pressure drop curves are based on water flow.
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally.
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards.

1 For correct installation and maintenance please see our I&M manual | 2 Vertical installation (downward flow) – Consult factory | 3 Always use Strainers in upstream piping | 4 Not recommended for Steam Service

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150WC Series

How to Order

1 Inlet Size	2 Model	3 Seat	4 Spring
1 0 0 0 -	1 5 0 W C T T	M -	T

1	Inlet Size
0800	8"
1000	10"
1200	12"

3	Seat
M	Metal

2	Model
150WCCT	Carbon Steel Body, Stainless Steel Disc
150WCTT	Stainless Steel Body, Stainless Steel Disc

4	Spring
T	Stainless Steel

Features

- ASME Class 150 rated check valves
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Compact face to face length for space saving
- Wafer body style fits between FF or RF flanges
- Dual rating 150# and 300# in sizes 2" through 6"

Models

- 150WCCT – Cast Steel Body, Stainless Steel Disc
- 150WCTT – Stainless Steel Body, Stainless Steel Disc

Options

- Viton Seats
- Other Spring Material
- Heavier or Lighter Springs

Canadian Registration - OC10274.5C

Applicable Codes (designed in accordance with)

- ASME Sec. VIII and B16.34 Bodies
- API 598

Flow Coefficient Values (Cv)

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
8"	639	740	1297
10"	1114	1250	1800
12"	1297	1992	2593



Sizes
8" to 12"



Pressure
up to 285 PSIG
(19.7 BARG)



Temperature
up to 400°F
(204°C)



Applications

Process Industry | Power Industry | Chemical Industry
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper

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150WC Series

Sizes
8" to 12"

Pressure Rating
285 PSIG (19.7 BARG)

Temperature Rating
400° F (204° C)

End Connections
Wafer Flanged

Cracking Pressures
Horizontal - 0.3 PSID
Vertical - 0.75 to 1.25 PSID

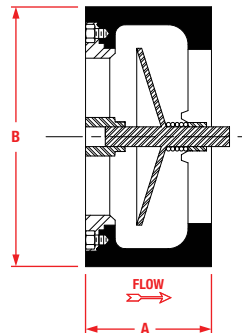
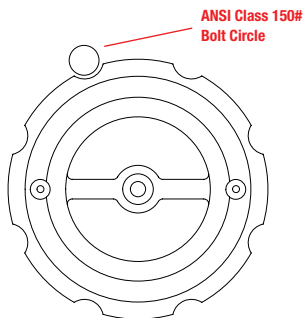
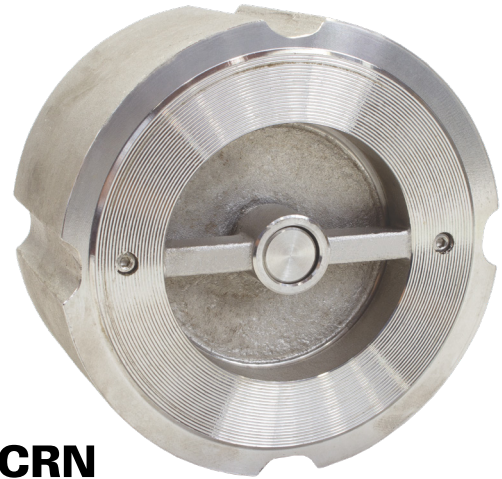
Description

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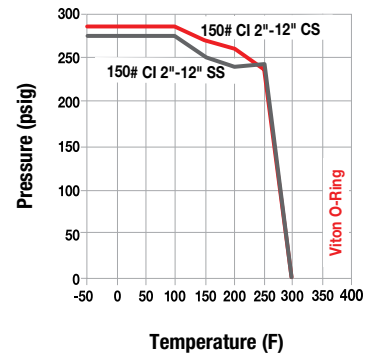
Features

- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Compact face to face length for space saving
- Wafer body style fits between FF or RF flanges
- Dual rating 150# and 300# in sizes 2" through 6"

CRN



**Pressure / Temperature Chart
ASME B16.34**



Dimensions												
Size		A		B*		Qty	Stud Selection				Weight	
							Diameter		Length			
inch	mm	inch	mm	inch	mm		inch	mm	inch	mm	lbs	kg
2"				Use 2" 300WC on page 205								
2½"				Use 2½" 300WC on page 205								
3"				Use 3" 300WC on page 205								
4"				Use 4" 300WC on page 205								
5"				Use 5" 300WC on page 205								
6"				Use 6" 300WC on page 205								
8"	200	6.50	165	11.00	279	8	0.75	19	11.25	286	79	35.8
10"	250	8.25	209	13.38	340	12	0.88	22	12.25	311	147	66.7
12"	300	11.25	286	16.13	410	12	0.88	22	16.50	419	280	127

Materials		
Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Discs	A351-CF8M	A351-CF8M
Seat	A351-CF8M	A351-CF8M
Spring	316 SS	316 SS
O-Ring	Viton	Viton

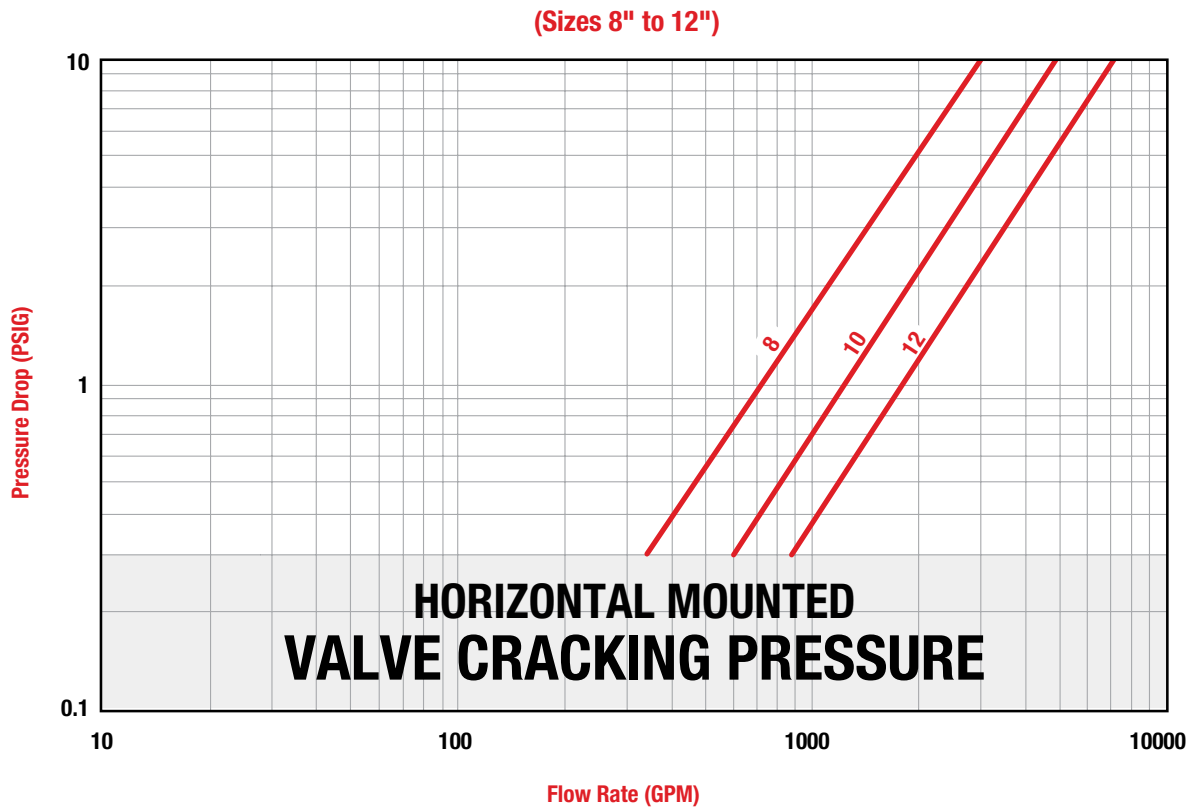
1 Sizes 2" through 6" 150WC and 300WC are interchangeable, use 300WC for all applications in these sizes | Dimensions shown are subject to change. Consult factory for certified drawings when required.

* Add the "B" dimension and the diameter of the stud to achieve the ANSI B16.5 bolt hole circle diameter

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150WC Series

Pressure Drop VS. Flow Rate



- Pressure drop curves are based on water flow.
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally.
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards.

1 For correct installation and maintenance please see our I&M manual | 2 Vertical installation (downward flow) – Consult factory | 3 Always use Strainers in upstream piping | 4 Not recommended for Steam Service

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300WC Series

How to Order

1	2	3	4
Inlet Size	Model	Seat	Spring
0 3 0 0	3 0 0 W C C T	M	T

1	Inlet Size					
0200	2"	0300	3"	0500	5"	
0250	2½"	0400	4"	0600	6"	

2	Model					
300WCCT	Carbon Steel Body, Stainless Steel Disc					
300WCCTT	Stainless Steel Body, Stainless Steel Disc					

3	Seat					
M	Metal					

4	Spring					
T	Stainless Steel					

Features

- ASME Class 300 rated check valves
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Compact face to face length for space saving
- Wafer body style fits between FF or RF flanges
- Dual rating 150# and 300# in sizes 2" through 6"

Applicable Codes (designed in accordance with)

- ASME Sec. VIII and B16.34 Bodies
- API 598

Models

- 300WCCT – Cast Steel Body, Stainless Steel Disc
- 300WCCTT – Stainless Steel Body, Stainless Steel Disc

Options

- Viton Seats
- Other Spring Material
- Heavier or Lighter Springs

Canadian Registration - OC10274.5C

Flow Coefficient Values (Cv)

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
2"	51	58	73
2½"	84	90	106
3"	119	134	168
4"	179	210	285
5"	265	300	391
6"	383	430	548



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300WC Series



Sizes
2" to 6"



Pressure Rating
740 PSIG (51 BARG)



Temperature Rating
400° F (204° C)



End Connections
Wafer Flanged



Cracking Pressures
Horizontal - 0.3 PSID
Vertical - 0.75 to 1.25 PSID

Description

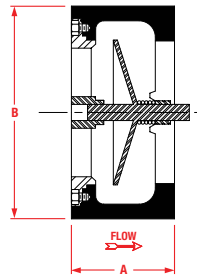
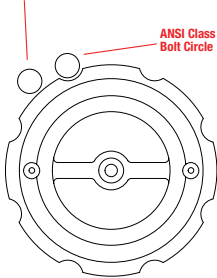
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Features

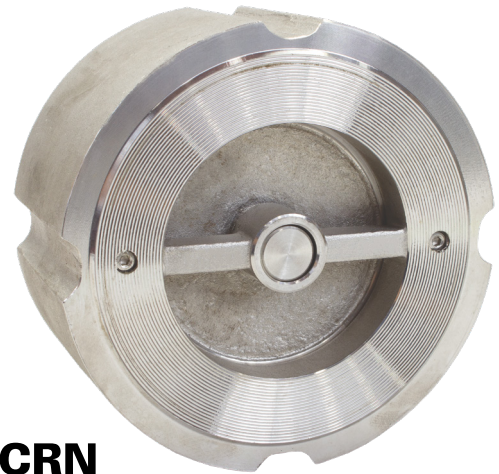
- Designed to reduce surge and Water Hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Compact face to face length for space saving
- Wafer body style fits between FF or RF flanges
- Dual rating 150# and 300# in sizes 2" through 6"

ANSI Class 300# Bolt Circle

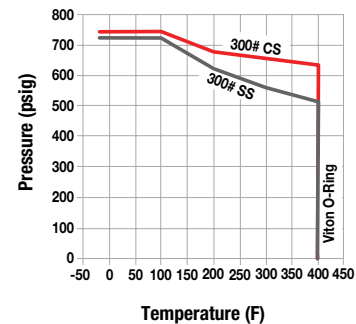
ANSI Class 150# Bolt Circle



CRN



Pressure / Temperature Chart
ASME B16.34



Dimensions													
Size			A		B*		Qty	Stud Selection				Weight	
								Diameter		Length			
inch	mm		inch	mm	inch	mm		inch	mm	inch	mm	lbs	kg
2"	50	150	2.63	67	4.13	105	4	0.63	16	6.25	159	5	2.3
		300	2.63	67	4.38	111	8	0.63	16	6.50	165		
2½"	65	150	2.88	73	4.88	124	4	0.63	16	6.75	171	7	3.2
		300	2.88	73	5.13	130	8	0.75	19	7.25	184		
3"	80	150	3.13	79	5.88	137	4	0.63	16	7.00	178	11	5.0
		300	3.13	79	5.88	149	8	0.75	19	7.75	197		
4"	100	150	4.00	102	6.88	175	8	0.63	16	8.00	203	20	9.1
		300	4.00	102	7.13	181	8	0.75	19	9.00	229		
5"	125	150	4.63	117	7.75	197	8	0.75	19	8.50	216	34	15.4
		300	4.63	117	8.50	216	8	0.75	19	9.75	247		
6"	150	150	5.56	141	8.75	222	8	0.75	19	10.00	254	42	19.1
		300	5.56	141	9.88	251	12	0.75	19	10.75	273		

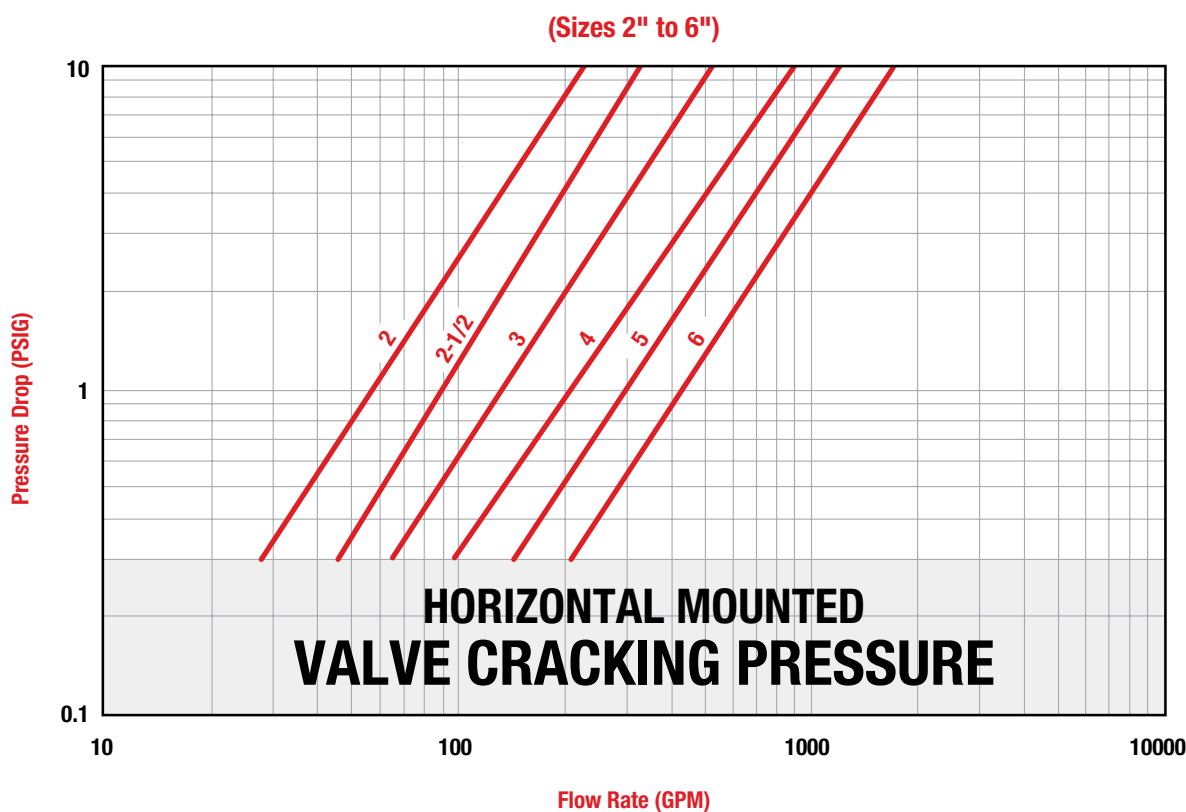
Materials		
Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Discs	A351-CF8M	A351-CF8M
Seat	A351-CF8M	A351-CF8M
Spring	316 SS	316 SS
O-Ring	Viton	Viton

* Add the "B" dimension and the diameter of the stud to achieve the ANSI B16.5 bolt hole circle diameter | Dimensions shown are subject to change. Consult factory for certified drawings when required.

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300WC Series

Pressure Drop VS. Flow Rate



- Pressure drop curves are based on water flow.
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally.
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards.

1 For correct installation and maintenance please see our I&M manual | 2 Vertical installation (downward flow) – Consult factory | 3 Always use Strainers in upstream piping | 4 Not recommended for Steam Service

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Technical Information

Check Valve Installation

- Valves may be installed upward vertically, horizontally, or at other angles. For vertical downward flow please consult with the factory.
- Install the valve with proper positioning of the flow arrow.
- Support and align adjacent piping and the valve.
- Install lubricated flange bolts.
- Hand tighten, then torque the bolts using the cross-over flange bolt-tightening method to load the bolts evenly, and eliminate concentrated stresses.
- Valves must be mounted to ANSI flanges with conventional flat face or ring gaskets.
- Proper centering of the ring gaskets is important to prevent internal leakage.
- Never lift the valve by the bronze or stainless steel trim.
- Install a strainer in the piping.

Precautions

- Do not install check valves directly against another valve whereby the check valve discharges downstream directly into the valve.
- Do not install the valve whereby it directly discharges downstream into a tee or elbow fitting.
- These valves are not suggested for installation in sewage ejector piping.
- Careful consideration should be given to the selection of valves for use in an air, steam, hot water and boiler feed systems. Consult our factory on these applications.
- Individuals performing removal and disassembly should be provided with suitable protection from possibly hazardous liquids.
- Before disassembly, the valve must first be isolated from system pressure and flow.
- Upon disassembly ensure spring pressure is released slowly to prevent personal injury due.

WARNING

This product operates in pipelines or with equipment that carries fluids and/or gases at elevated temperatures and pressures. Caution should be taken to make sure that this equipment is installed correctly and inspected regularly. Caution should also be taken to protect personnel from fluid or gas leakage.

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Overview



Sizes
2" to 18"



Temperature
up to 400°F



Pressure
up to 400 PSIG



Applications

- Process Industry
- Power Industry
- Chemical Industry
- Liquid Service
- Oil & Gas
- Metals & Mining
- Water & Waste
- Pulp & Paper
- Marine

Features

- Silent non-slam closure
- Flanged body style
- Metal to metal seats

End Connections

- Flat Face
- Raised Face

Body Materials

- Cast Iron
- Carbon Steel
- Stainless Steel

Disc Materials

- Bronze
- Stainless Steel

ASME Ratings

- Class 125
- Class 150
- Class 250

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125FC Series

How to Order

1 Inlet Size	2 Model	3 Seat	4 Spring
0 8 0 0	1 2 5 F C I B	M	T

1	Inlet Size					
0200	2"	0500	5"	1200	12"	
0250	2½"	0600	6"	1400	14"	
0300	3"	0800	8"	1600	16"	
0400	4"	1000	10"	1800	18"	

2	Model					
125FCIB	Cast Iron Body, Bronze Disc					

3	Seat					
M	Metal					

4	Spring					
T	Stainless Steel					

Features

- ASME Class 125 rated check valve
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Flanged body style
- Bronze Metal to Metal Seats

Applicable Codes (designed in accordance with)

- Bodies in accordance with ASME B16.1
- API 598

Models

- 125FCIB - Cast Iron Body, Bronze Seat and Disc

Options

- Other Spring Material
- Heavier or Lighter Springs

Flow Coefficient Values (Cv)

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
2"	53	63	89
2½"	99	105	120
3"	135	148	174
4"	246	265	300
5"	402	430	474
6"	566	605	696

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
8"	1004	1105	1297
10"	1579	1700	1992
12"	2556	2575	2593
14"	3286	3350	3479
16"	4199	4300	4427
18"	5112	5225	5376



Sizes

2" to 18"



Pressure

up to 200 PSIG
(13.8 BARG)



Temperature

up to 300°F
(149°C)



Applications

Process Industry | Power Industry | Chemical Industry | Liquid Service
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper | Marine

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125FC Series

 Sizes 2" to 18"	 Pressure Rating 200 PSIG (13.8 BARG)	 Temperature Rating 300° F (149° C)	 End Connections FF Flanged	 Cracking Pressures Horizontal - 0.3 PSID Vertical - 0.75 to 1.25 PSID
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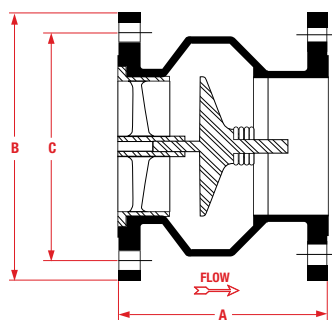
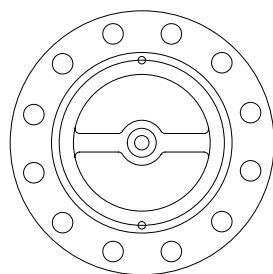
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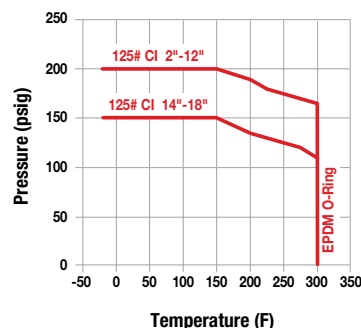
Features

- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Bronze Metal to Metal Seats
- Designed to reduce Water Hammer

CRN



Pressure / Temperature Chart
ASME B16.1



Dimensions									
Size		A		B		C		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
2"	50	6.13	156	6.0	152	4.75	121	21	9.4
2½"	65	7.00	178	7.0	178	5.50	140	31	13.8
3"	80	7.50	191	7.5	191	6.00	153	37	16.5
4"	100	8.50	216	9.0	229	7.50	191	62	28
5"	125	9.50	241	10.0	254	8.50	216	80	36
6"	150	10.50	267	11.0	280	9.50	241	106	48
8"	200	13.50	343	13.5	343	11.75	299	175	79
10"	250	16.25	413	16.0	406	14.25	362	267	121
12"	300	20.25	515	19.0	483	17.00	431	477	216
14"	350	22.75	580	21.0	533	18.75	477	785	356
16"	400	24.75	629	23.5	597	21.25	540	900	408
18"	450	22.50	572	25.0	635	22.75	578	1032	468

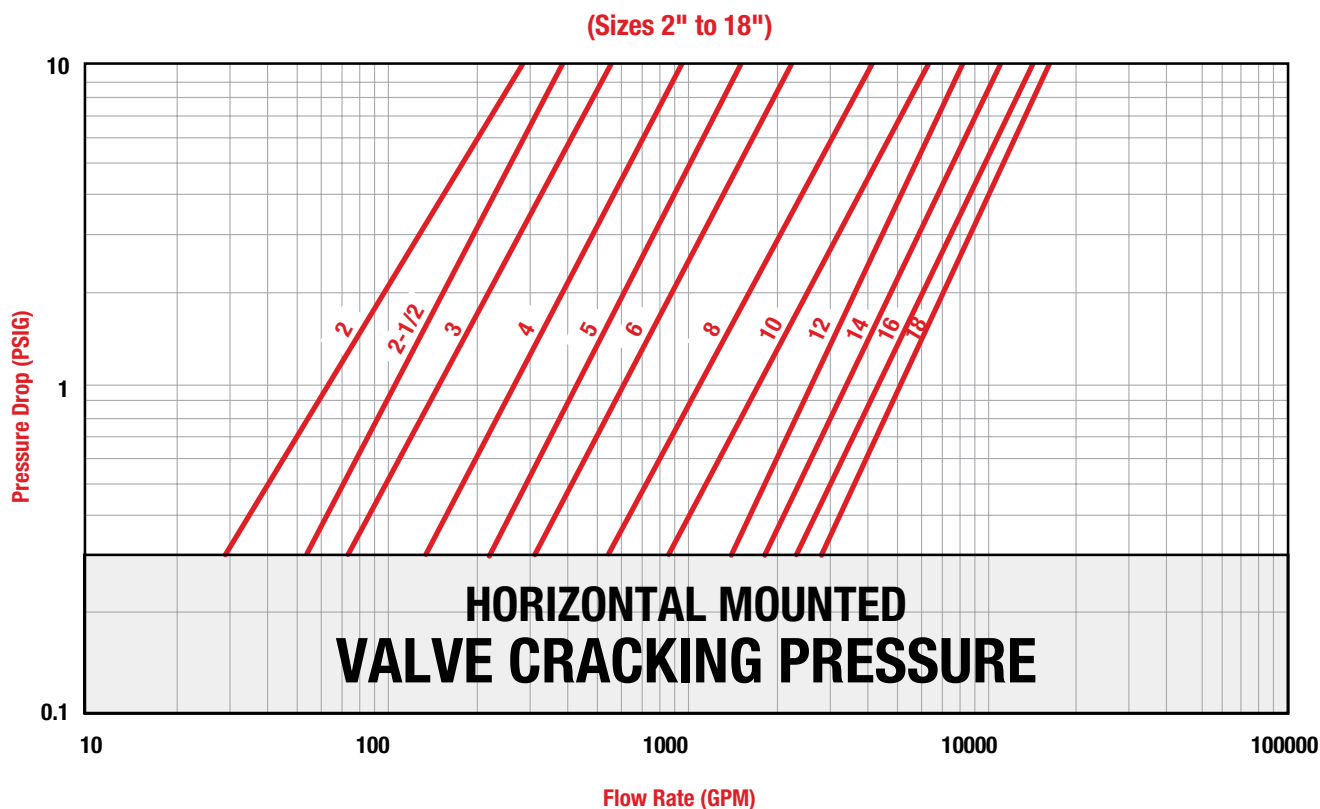
Materials	
Part	Material
Body	A126-B
Discs	B62 Bronze
Seat	B62 Bronze
Spring	316 SS
O-Ring	EPDM

Dimensions shown are subject to change. Consult factory for certified drawings when required.

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125FC Series

Pressure Drop VS. Flow Rate



- Pressure drop curves are based on water flow.
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally.
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards.

1 For correct installation and maintenance please see our I&M manual | 2 Vertical installation (downward flow) – Consult factory | 3 Always use Strainers in upstream piping | 4 Not recommended for Steam Service

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150FC Series

How to Order

1 Inlet Size	2 Model	3 Seat	4 Spring
0 4 0 0	1 5 0 F C T T	M	T

1 Inlet Size					
0200	2"	0500	5"	1200	12"
0250	2½"	0600	6"	1400	14"
0300	3"	0800	8"	1600	16"
0400	4"	1000	10"		

2 Model	
150FCCT	Cast Steel Body, Stainless Steel Seat and Disc
150FCTT	Stainless Steel Body, Stainless Steel Seat and Disc

Features

- ASME Class 150 rated check valve
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Flanged body style
- Stainless Steel Metal to Metal Seats

Applicable Codes (designed in accordance with)

- ASME Sec. VIII and B16.34 Bodies
- API 598

Models

- 150FCCT - Cast Steel Body, Stainless Steel Seat and Disc
- 150FCTT - Stainless Steel Body, Stainless Steel Seat and Disc

Options

- Other Spring Material
- Heavier or Lighter Springs

Flow Coefficient Values (Cv)

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
2"	52	63	89
2½"	99	105	120
3"	135	148	174
4"	246	265	300
5"	402	430	474
6"	566	605	696

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
8"	1004	1105	1297
10"	1579	1700	1992
12"	2556	2575	2593
14"	3286	3350	3479
16"	4199	4300	4427



Sizes

2" to 16"



Pressure

up to 285 PSIG
(19.7 BARG)



Temperature

up to 400°F
(204°C)



Applications

Process Industry | Power Industry | Chemical Industry | Liquid Service
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper | Marine

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150FC Series



Sizes
2" to 16"



Pressure Rating
285 PSIG (19.7 BARG)



Temperature Rating
400° F (149° C)



End Connections
FF Flanged



Cracking Pressures
Horizontal - 0.3 PSID
Vertical - 0.75 to 1.25 PSID

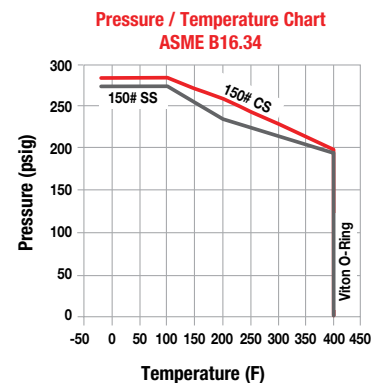
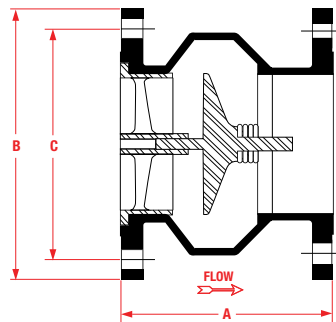
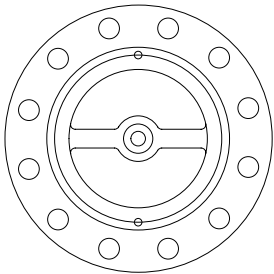
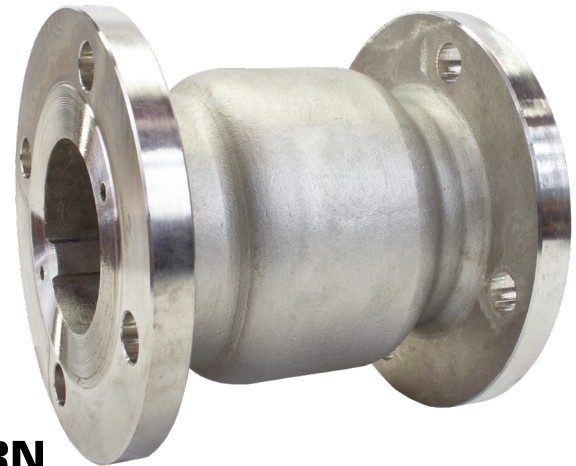
Description

Elite Valve manufactures carbon steel silent check valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. Elite Valve carbon steel silent check valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Features

- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Flanged body style
- Stainless steel metal to metal seats

CRN



Dimensions									
Size		A		B		C		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
2"	50	6.25	159	6.0	152	4.75	121	15	6.6
2½"	65	7.00	178	7.0	178	5.50	140	21	9.3
3"	80	7.50	191	7.5	191	6.00	153	26	11.5
4"	100	8.50	216	9.0	229	7.50	191	48	21.3
5"	125	9.50	242	10.0	254	8.50	216	61	27.3
6"	150	10.50	267	11.0	280	9.50	241	76	34.1
8"	200	12.00	305	13.5	343	11.75	299	129	58.4
10"	250	14.00	356	16.0	406	14.25	362	183	82.8
12"	300	18.00	457	19.0	483	17.00	431	344	156
14"	350	19.50	495	21.0	533	18.75	477	433	196
16"	400	21.00	533	23.5	597	21.25	540	607	275

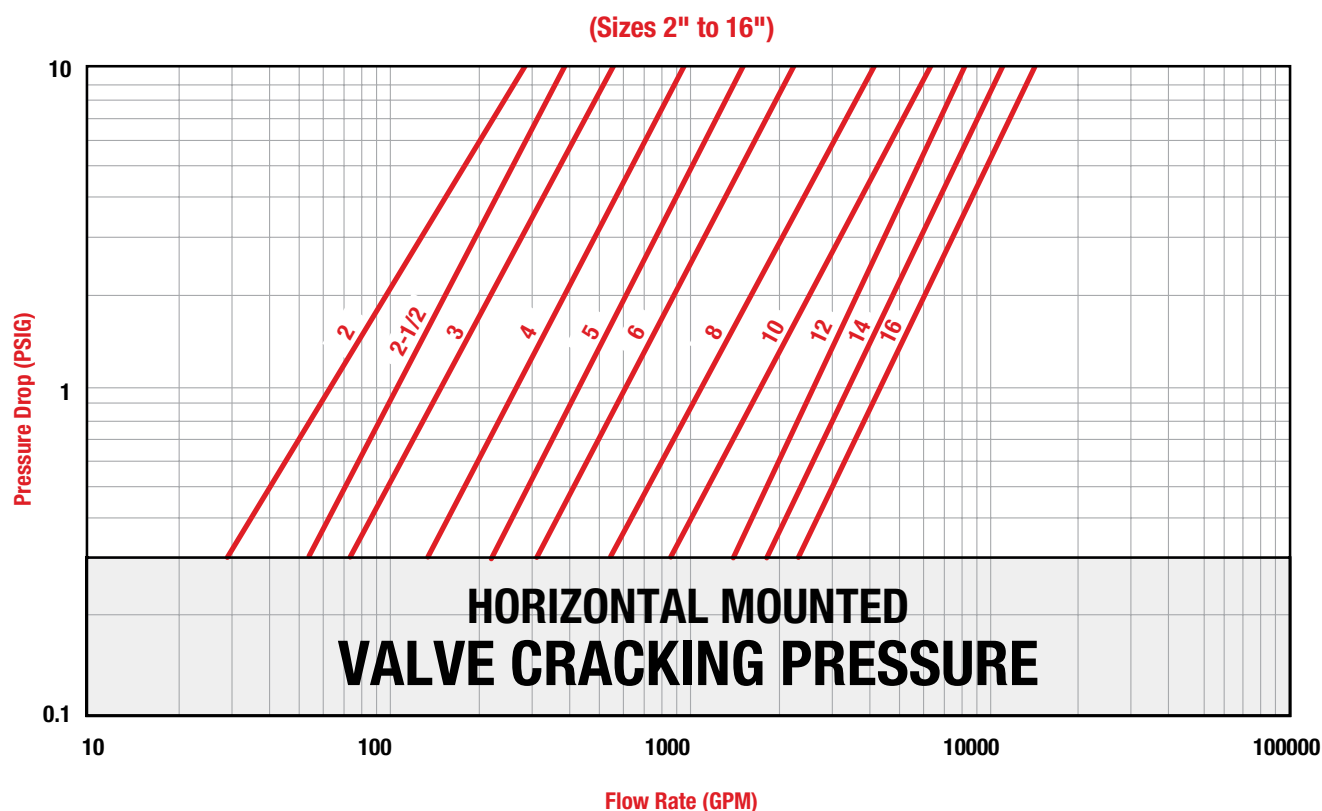
Materials		
Part	Carbon Steel	Stainless Steel
Body	A216 WCB	A351 CF8M
Discs	A351 CF8M	A351 CF8M
Seat	A351 CF8M	A351 CF8M
Spring	316 SS	316 SS
O-Ring	Viton	Viton

Dimensions shown are subject to change. Consult factory for certified drawings when required.

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150FC Series

Pressure Drop VS. Flow Rate



- Pressure drop curves are based on water flow.
- Valve cracking pressure is equal to or less than 0.3 psid when mounted horizontally.
- Valve cracking pressure increases to between 0.75 and 1.25 psid when installed vertically with flow upwards.

1 For correct installation and maintenance please see our I&M manual | 2 Vertical installation (downward flow) – Consult factory | 3 Always use Strainers in upstream piping | 4 Not recommended for Steam Service

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250FC Series

How to Order

1	2	3	4
Inlet Size	Model	Seat	Spring
0 8 0 0	2 5 0 F C I B	M	T

1	Inlet Size
0250	2½"
0300	3"
0400	4"
0500	5"
0600	6"
0800	8"
1000	10"
1200	12"

2	Model
250FCIB	Cast Iron Body, Bronze Disc

3	Seat
M	Metal

4	Spring
T	Stainless Steel

Features

- ASME Class 250 rated check valve
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Flanged body style
- Bronze Metal to Metal Seats

Applicable Codes (designed in accordance with)

- ASME B16.1

Models

- 250FCIB - Cast Iron Body, Bronze Seat and Disc
- 150FCTT – Stainless Steel Body, Stainless Steel Seat and Disc

Options

- Other Spring Material
- Heavier or Lighter Springs

Flow Coefficient Values (Cv)

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
2½"	78	110	348
3"	110	155	490
4"	197	278	879
5"	308	435	1376
6"	442	625	1976
8"	788	1115	3526
10"	1252	1770	5597
12"	1768	2500	7906



Sizes

2½" to
12"



Pressure

up to 400 PSIG
(27.6 BARG)



Temperature

up to 200°F
(93°C)



Applications

Process Industry | Power Industry | Chemical Industry | Liquid Service
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper | Marine

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150FC Series

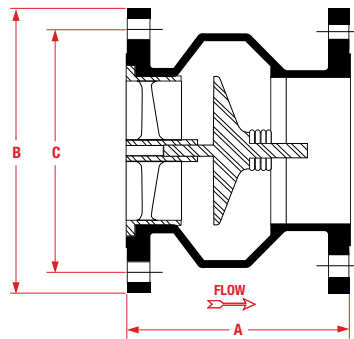
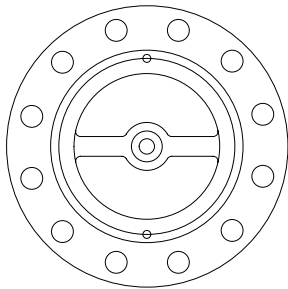
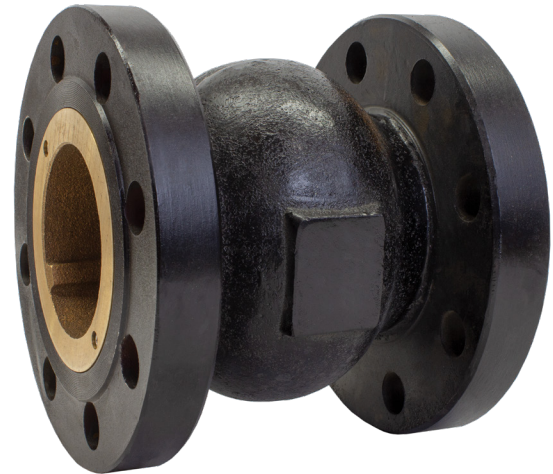
 Sizes 2" to 18"	 Pressure Rating 400 PSIG (27.6 BARG)	 Temperature Rating 200° F (93° C)	 End Connections FF Flanged	 Cracking Pressures Horizontal - 0.3 PSID Vertical - 0.75 to 1.25 PSID
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Description

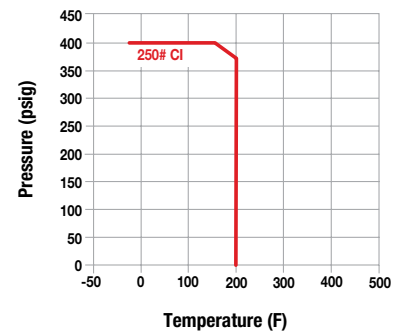
Elite Valve manufactures cast iron silent check valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. Elite Valve cast iron silent check valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Features

- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Center guided at both ends to prevent binding and cocking
- Bronze metal to metal seats
- Designed to reduce water hammer



Pressure / Temperature Chart
ASME B16.1



Dimensions									
Size		A		B		C		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
2½"	65	5.50	127	5.50	127	5.88	150	30	13.6
3"	80	6.00	150	8.25	216	6.63	168	36	16.4
4"	100	7.25	184	10.00	254	7.88	200	59	27
5"	125	8.50	216	11.00	280	9.25	235	78	36
6"	150	9.75	248	12.50	318	10.63	270	103	47
8"	200	12.50	318	15.00	381	13.00	331	179	82
10"	250	15.50	394	17.50	445	15.25	388	253	115
12"	300	14.25	362	20.50	521	17.75	451	401	182

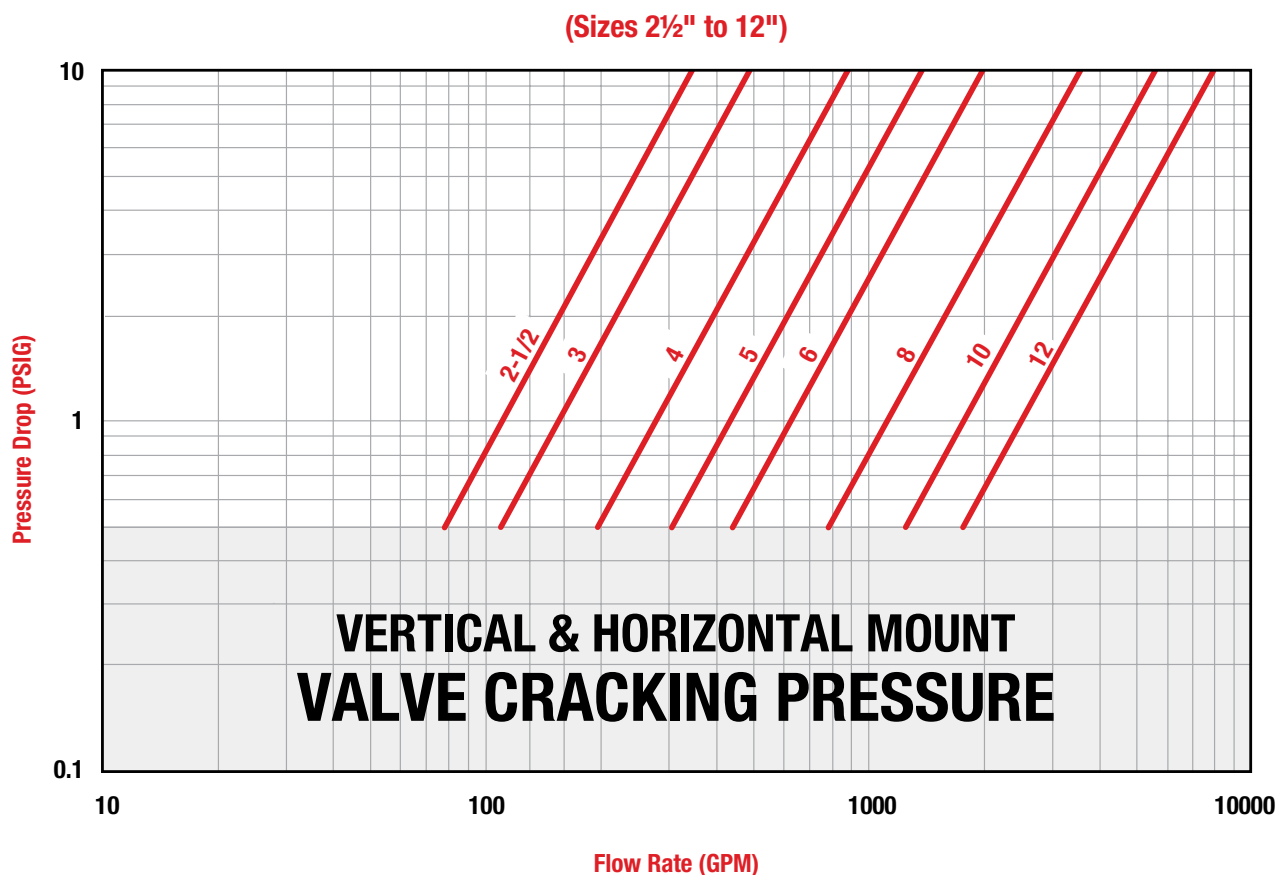
Materials	
Part	Material
Body	A126-A
Discs	B62 Bronze
Seat	B62 Bronze
Spring	316 SS
O-Ring	EPDM

Dimensions shown are subject to change. Consult factory for certified drawings when required.

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250FC Series

Pressure Drop VS. Flow Rate



- Pressure drop curves are based on water flow.
- Valve cracking pressure is equal to or less than 0.5 psid when installed vertically and horizontally.

1 For correct installation and maintenance please see our I&M manual | 2 Vertical installation (downward flow) – Consult factory | 3 Always use Strainers in upstream piping | 4 Not recommended for Steam Service

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Technical Information

Check Valve Installation

- Valves may be installed upward vertically, horizontally, or at other angles. For vertical downward flow please consult with the factory.
- Install the valve with proper positioning of the flow arrow.
- Support and align adjacent piping and the valve.
- Install lubricated flange bolts.
- Hand tighten, then torque the bolts using the cross-over flange bolt-tightening method to load the bolts evenly, and eliminate concentrated stresses.
- Valves must be mounted to ASME flanges with conventional flat face or ring gaskets.
- Proper centering of the ring gaskets is important to prevent internal leakage.
- Never lift the valve by the bronze or stainless steel trim.
- Install a strainer in the piping.

Precautions

- Do not install check valves directly against another valve whereby the check valve discharges downstream directly into the valve.
- Do not install the valve whereby it directly discharges downstream into a tee or elbow fitting.
- These valves are not suggested for installation in sewage ejector piping.
- Careful consideration should be given to the selection of valves for use in an air, steam, hot water and boiler feed systems. Consult our factory on these applications.
- Individuals performing removal and disassembly should be provided with suitable protection from possibly hazardous liquids.
- Before disassembly, the valve must first be isolated from system pressure and flow.
- Upon disassembly ensure spring pressure is released slowly to prevent personal injury due to the spring “launching” itself unexpectedly.

WARNING

This product operates in pipelines or with equipment that carries fluids and/or gases at elevated temperatures and pressures. Caution should be taken to make sure that this equipment is installed correctly and inspected regularly. Caution should also be taken to protect personnel from fluid or gas leakage.

* Check valves should be installed, if possible, a minimum of 6 pipe diameters from other line elements, i.e. elbows, pipes, valves, etc.

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Overview



Sizes
2" to 18"



Temperature
up to 400°F



Pressure
up to 285 PSIG



Applications

- Process Industry
- Power Industry
- Chemical Industry
- Liquid Service
- Oil & Gas
- Metals & Mining
- Water & Waste
- Pulp & Paper
- Marine

Features

- Silent non-slam closure
- Flanged body style
- Metal to metal seats

End Connections

- Flat Face
- Raised Face

Body Materials

- Cast Iron
- Carbon Steel
- Stainless Steel

Disc Materials

- Bronze
- Stainless Steel

ASME Ratings

- Class 125
- Class 150
- Class 250

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125FV

How to Order

1 Inlet Size	2 Model	3 Seat	4 Perf	5 Mesh
0 6 0 0 -	1 2 5 F V I B	M	-	4 5

1	Inlet Size					
0200	2"	0500	5"	1200	12"	
0250	2½"	0600	6"	1400	14"	
0300	3"	0800	8"	1600	16"	
0400	4"	1000	10"	1800	18"	

2	Model
125FVIB	Cast Iron Body, Bronze Disc, Metal Seat

3	Seat
M	Metal

Features

- ASME Class 125 rated foot valve
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Heavy duty stainless steel screening with flow areas three to four times that of the pipe area
- Center guided at both ends to prevent binding and cocking
- Flanged body style
- Bronze Metal to Metal Seats

Flow Coefficient Values (Cv)

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
2"	53	63	89
2½"	99	105	120
3"	135	148	174
4"	246	265	300
5"	402	430	474
6"	566	605	696

1. For other screen materials contact factory.



Sizes

2" to 18"



Pressure

up to 200 PSIG
(13.8 BARG)

Temperature

up to 300°F
(149°C)

Applications

Process Industry | Power Industry | Chemical Industry | Liquid Service
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper | Marine

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125FV Series



Sizes
2" to 18"



Pressure Rating
200 PSIG (13.8 BARG)



Temperature Rating
300° F (149° C)



End Connections
FF Flanged



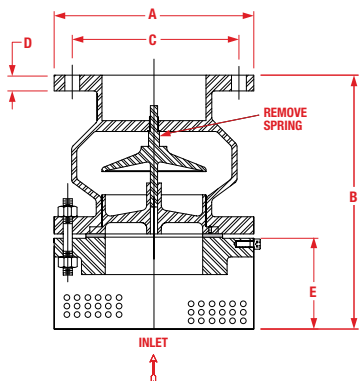
Cracking Pressures
Vertical - Consult Factory

Description

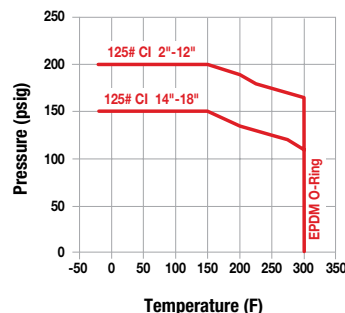
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Features

- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Heavy duty stainless steel screening with flow areas three to four times that of the pipe area
- Center guided at both ends to prevent binding and cocking
- Bronze metal to metal seats



Pressure / Temperature Chart
ASME B16.1



Dimensions																		
Size		A		B		C		D		E		Stud Lgth		Bolt Size		# of Bolts	Weight	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		lbs	kg
2"	50	6.0	152	8.38	213	4.75	121	0.75	19	3	76	3.25	83	0.63	16	4	30	14
2½"	65	7.0	178	8.63	219	5.50	140	0.88	22	3	76	3.50	89	0.63	16	4	45	20
3"	80	7.5	191	9.63	244	6.00	152	0.94	24	3	76	3.75	95	0.63	16	4	51	23
4"	100	9.0	229	11.13	283	7.50	191	0.94	24	3	76	3.75	95	0.63	16	8	83	38
5"	125	10.0	254	13.38	340	8.50	216	0.94	24	4	102	4.00	102	0.75	19	8	104	47
6"	150	11.0	279	15.88	403	9.50	241	1.00	25	5	127	4.00	102	0.75	19	8	133	60
8"	200	13.5	343	19.63	498	11.75	298	1.13	29	6	152	4.25	108	0.75	19	8	215	98
10"	250	16.0	406	23.63	600	14.25	362	1.19	30	7	178	4.75	121	0.88	22	12	324	147
12"	300	19.0	483	23.38	594	17.00	432	1.25	32	8	203	4.75	121	0.88	22	12	557	253
14"	350	21.0	533	25.88	657	18.75	476	1.38	35	9	229	5.25	133	1.00	25	12	890	404
16"	400	23.5	597	29.00	737	21.25	540	1.44	37	10	254	5.50	140	1.00	25	16	1034	469
18"	450	25.0	635	31.13	791	22.75	578	1.56	40	11	279	6.00	152	1.13	29	16	1171	531

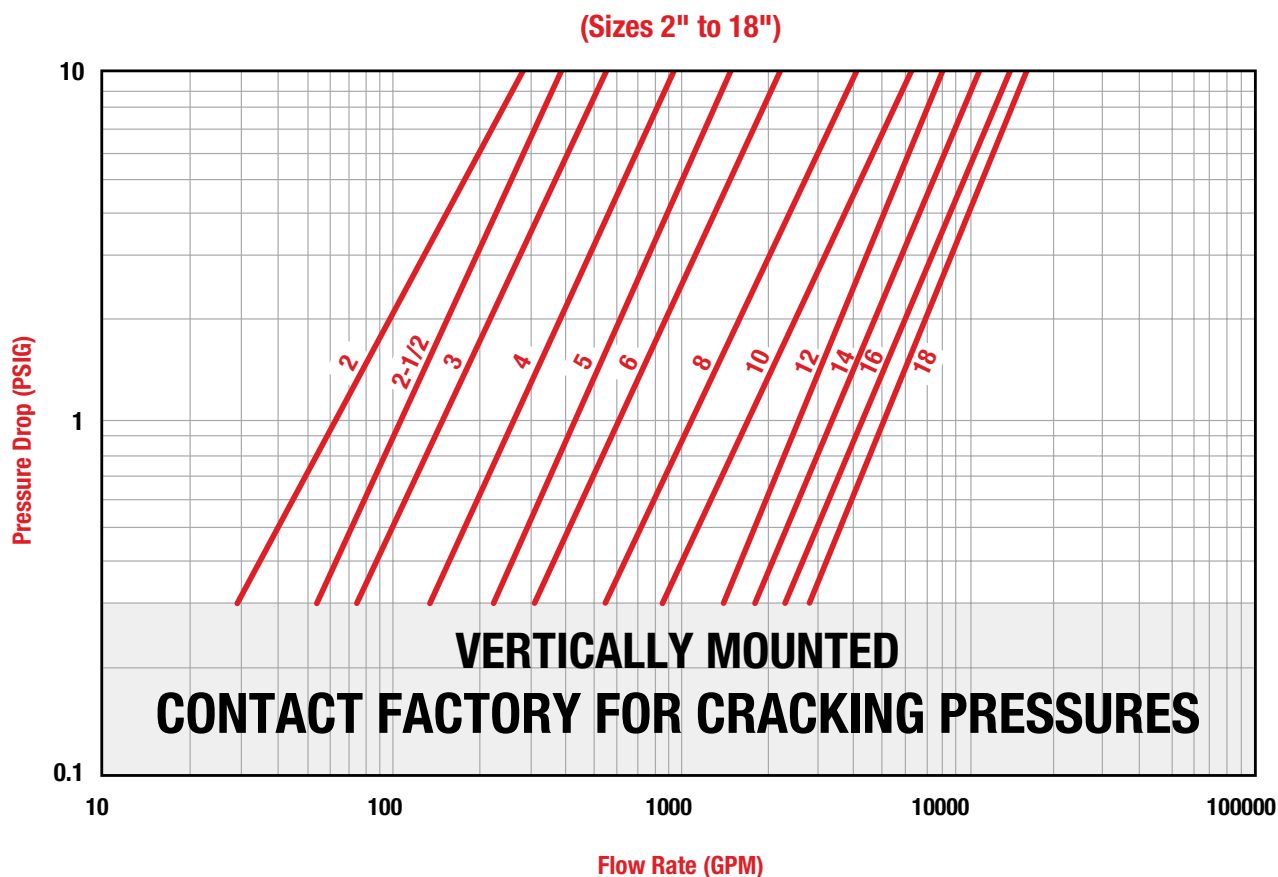
Dimensions shown are subject to change. Consult factory for certified drawings when required.

Materials	
Part	Material
Body	A126-B
Disc	B62
Seat	B62
Bolt	SA193 B8
Studs	SA193 B7
Hex Nuts	SA194 2H
Screen FLG	SA105
Screen	SA240 304
Gasket	Red Rubber

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125FV

Pressure Drop VS. Flow Rate



- For correct installation and maintenance, please see our I & M manual.
- Mount only in vertical position with upward flow.

* Pressure drop curves are based on water flow.

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150FV Series

How to Order

1 Inlet Size	2 Model	3 Seat	4 Perf	5 Mesh
0 6 0 0 -	1 5 0 F V C T	M -	4	5

1	Inlet Size					
0200	2"	0500	5"	1200	12"	
0250	2½"	0600	6"	1400	14"	
0300	3"	0800	8"	1600	16"	
0400	4"	1000	10"			

2	Model
150FVCT	Carbon Steel Body, SS Disc, Metal Seat
150FVTT	Stainless Steel Body, SS Disc, Metal Seat

3	Seat
M	Metal

Features

- ASME Class 150 rated foot valve
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Heavy duty stainless steel screening with flow areas three to four times that of the pipe area
- Center guided at both ends to prevent binding and cocking
- Flanged body style
- Stainless Steel Metal to Metal Seats

Flow Coefficient Values (Cv)

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
2"	53	63	89
2½"	99	105	120
3"	135	148	174
4"	246	265	300
5"	402	430	474
6"	566	605	696

4	Perf (304SS Material)					
1	1/32"	2	1/16"	6	3/16"	
B	3/64"	3	3/32"	7	7/32"	
4	1/8" (std)	5	5/32"	8	1/4"	

5	Mesh (Leave Blank if not required)					
1	10	4	40	7	80	
2	20	5	50	8	100	
3	30	6	60			

Applicable Codes (designed in accordance with)

- ASME Sec. VIII and B16.34 Bodies

Models

- 150FVCT – Carbon Steel Body, Stainless Steel Seat and Disc
- 150FVTT – Stainless Steel Body, Stainless Steel Seat and Disc

Options

- Consult factory



Sizes

2" to 16"



Pressure

up to 285 PSIG
(19.7 BARG)

Temperature

up to 400°F
(204°C)

Applications

Process Industry | Power Industry | Chemical Industry | Liquid Service
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper | Marine

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150FV

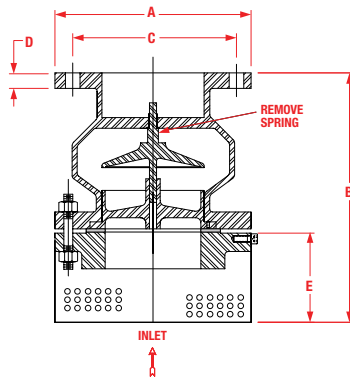
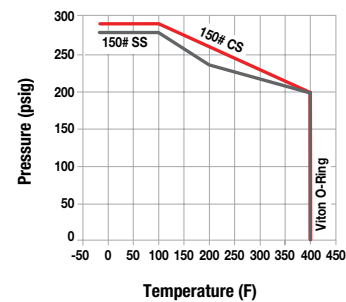
**Sizes**
2" to 16"**Pressure Rating**
285 PSIG (19.7 BARG)**Temperature Rating**
400° F (204° C)**End Connections**
FF Flanged**Cracking Pressures**
Vertical - Consult Factory

Description

Elite Valve manufactures carbon steel foot valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. Elite Valve carbon steel foot valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Features

- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Heavy duty stainless steel screening with flow areas three to four times that of the pipe area
- Center guided at both ends to prevent binding and cocking
- Stainless steel metal to metal seats

**Pressure / Temperature Chart
ASME B16.34**

Dimensions																		
Size		A		B		C		D		E		Stud Lgth		Bolt Size		# of Bolts	Weight	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		lbs	kg
2"	50	6.00	152	8.38	213	4.75	121	0.75	19	3	76	3.25	83	0.63	16	4	25	11
2½"	65	7.00	178	8.63	219	5.50	140	0.88	22	3	76	3.50	89	0.63	16	4	35	16
3"	80	7.50	191	9.63	244	6.00	152	0.94	24	3	76	3.75	95	0.63	16	4	45	20
4"	100	9.00	229	11.13	283	7.50	191	0.94	24	3	76	3.75	95	0.63	16	8	70	32
5"	125	10.00	254	13.38	340	8.50	216	0.94	24	4	102	4.00	102	0.75	19	8	90	41
6"	150	11.00	279	15.88	403	9.50	241	1.00	25	5	127	4.00	102	0.75	19	8	115	52
8"	200	13.50	343	19.63	498	11.75	298	1.13	29	6	152	4.25	108	0.75	19	8	181	82
10"	250	16.00	406	23.63	600	14.25	362	1.19	30	7	178	4.75	121	0.88	22	12	265	120
12"	300	19.00	483	23.38	594	17.00	432	1.25	32	8	203	4.75	121	0.88	22	12	425	193
14"	350	21.00	533	25.88	657	18.75	476	1.38	35	9	229	5.25	133	1.00	25	12	550	249
16"	400	23.50	597	29.00	737	21.25	540	1.44	37	10	254	5.50	140	1.00	25	16	695	315

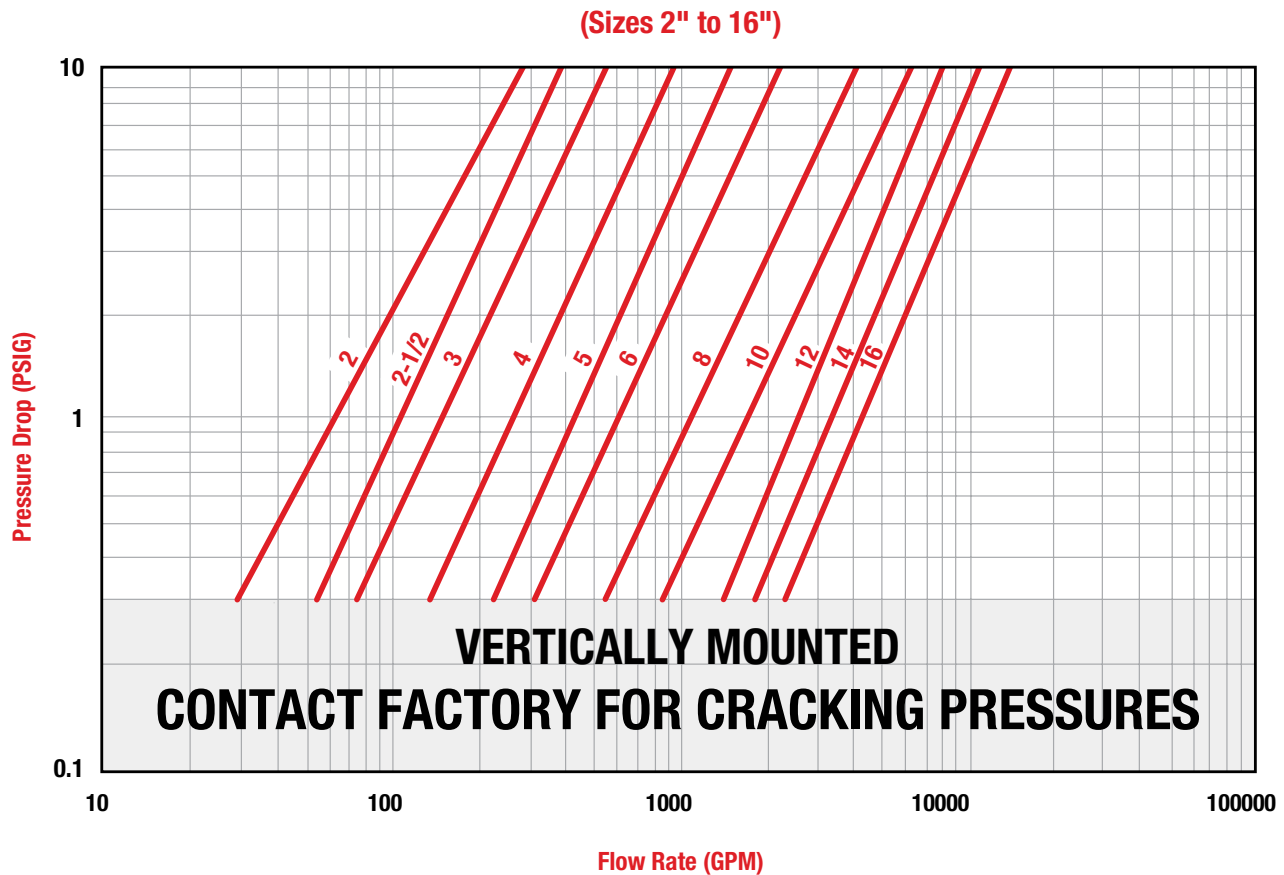
Materials		
Part	Carbon Steel	Stainless Steel
Body	A216 WCB	A351 CF8M
Disc	A351 CF8M	A351 CF8M
Seat	A351 CF8M	A351 CF8M
Bolt	SA193 B8	SA193 B8
Studs	SA193 B7	SA193 B7
Hex Nuts	SA194 2H	SA194 2H
Screen	SA105	SS-304
FLG	SA105	SS-304
Screen	SA240 304	SA240 316
Gasket	Red Rubber	Red Rubber

Dimensions shown are subject to change. Consult factory for certified drawings when required.

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150FV Series

Pressure Drop VS. Flow Rate



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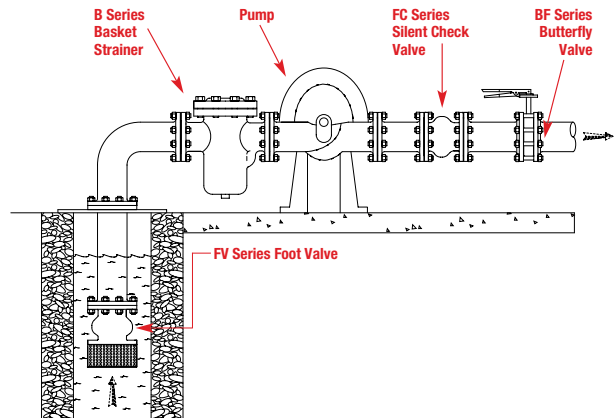
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Technical Information

Foot Valve Installation

- Valves may be installed upward vertically only.
- Install the valve with proper positioning of the flow arrow.
- Support and align adjacent piping and the valve.
- Install lubricated flange bolts.
- Hand tighten, then torque the bolts using the cross-over flange bolt-tightening method to load the bolts evenly, and eliminate concentrated stresses.
- Valves must be mounted to ASME flanges with conventional flat face or ring gaskets.
- Do not install foot valve directly against another valve whereby the check valve discharges downstream directly into the valve.

- Do not install the valve whereby it directly discharges downstream into a tee or elbow fitting.
- These valves are not suggested for installation in sewage ejector piping.
- Never lift the valve by the bronze or stainless steel trim.



Precautions

- Individuals performing removal and disassembly should be provided with suitable protection from possible hazardous liquids.
- Do not install foot valve directly against another valve whereby the foot valve discharges downstream directly into the valve.
- Foot valves are not recommended for installation in sewage ejector piping.
- Prior to disassembly, the valve must first be isolated from the system's (electrically isolated pump) pressure and flow.

Maintenance

- Individuals performing removal and disassembly should be provided with suitable protection from possibly hazardous liquids.
- Before disassembly, valve must first be isolated from system pressure and flow.
- To replace screen remove two screen retainer bolts, replace the screen and reassemble retainer bolts.
- To replace gasket, first dismantle the screen and then remove nuts of the strainer flange studs and separate the gasket from foot valve. Replace the gasket and reassemble in the reverse order.
- To replace the valve seat, first dismantle the screen, screen flange and then remove two seat retaining countersunk screws and take out the valve seat. Replace the valve seat and reassemble in reverse order.
- Lubricate bolts/nuts, hand tighten, then torque the bolts using the crossover flange bolt-tightening method to load the bolts evenly, and eliminate concentrated stresses.

WARNING

This product operates in pipelines or with equipment that carries fluids and/or gases at elevated temperatures and pressures. Caution should be taken to make sure that this equipment is installed correctly and inspected regularly. Caution should also be taken to protect personnel from fluid or gas leakage.

*** Check valves should be installed, if possible, a minimum of 6 pipe diameters from other line elements, i.e. elbows, pipes, valves, etc.**

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Notes

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Elite Valve



Elite Valve is committed to being a global leader in valve technology. We recognize that not all process applications are the same, and as our clients' processes vary, so should the valve technology they use. Registered as an ISO 9001 company, Elite Valve is committed to maintaining valve manufacturing technology centers, and delivering a reliable product every time called upon. In support of this commitment, Elite Valve has strategically located manufacturing and service centers within North America.

Our engineers are rewarded for innovative thinking... turning problems into opportunities and advancing product performance. Working closely with our customers is encouraged. Our modus operandi is "Strive to be the very best". It can be seen in the work we do daily. With these few words, we employ years of experience, handcrafting some of the best products available. Our ability to provide both standardized and custom-engineered solutions allows us to meet all your needs, in the most critical of applications.



2305 Wyecroft Road
Oakville, Ontario L6L 6R2



Local: (519) 756-3100
Toll-Free: (888) 339-7758



sales@elitevalve.com