

150FV SERIES CARBON STEEL AND STAINLESS STEEL FLANGED FOOT VALVES



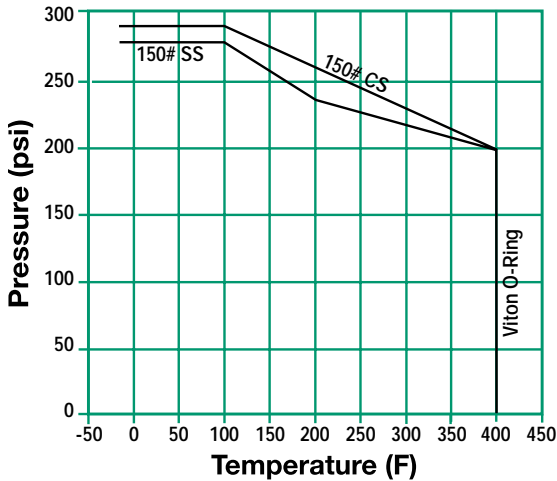
Pressures to 285 PSI (19.7 barg)
Temperatures to 400°F (204°C)

APPLICATIONS

- Liquid service: for preventing pump column from draining upon pump shutdown.
- Maintaining pump prime upon pump outage.

- ASME Class 150 rated foot valve
- Designed to reduced 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

**PRESSURE/TEMPERATURE CHART
ASME 16.34**



MODELS

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

OPTIONS (Consult factory)

- Consult factory

APPLICABLE CODES

- ASME Sec. VIII and B16.34 Bodies

Canadian Registration - OC10274.5C

FOOT VALVES

150FVCT Series Ordering Code

Inlet Size				Dash	Model								Seat	Dash	Perf	Add'l Mesh
0	6	0	0	-	1	5	0	F	V	C	T	M	-	4	5	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

Inlet Size* - Position 1 - 4 0200 - 2" 0250 - 2½" 0300 - 3" 0400 - 4" 0500 - 5" 0600 - 6" 0800 - 8" 1000 - 10" 1200 - 12" 1400 - 14" 1600 - 16"	Dash - Position 5 Model - Position 6 - 12 150FVCT - CS Body, SS Disc, Metal Seat 150FVTT - SS Body, SS Disc, Metal Seat Seat - Position 13 M - Metal Dash - Position 14	Perf - Position 15 304SS Material¹ 1 - 1/32" B - 3/64" 4 - 1/8" (std) 2 - 1/16" 3 - 3/32" 5 - 5/32" 6 - 3/16" 7 - 7/32" 8 - 1/4"	Additional Mesh - Position 16 Leave Blank If Not Required 1 - 10 2 - 20 3 - 30 4 - 40 5 - 50 6 - 60 7 - 80 8 - 100
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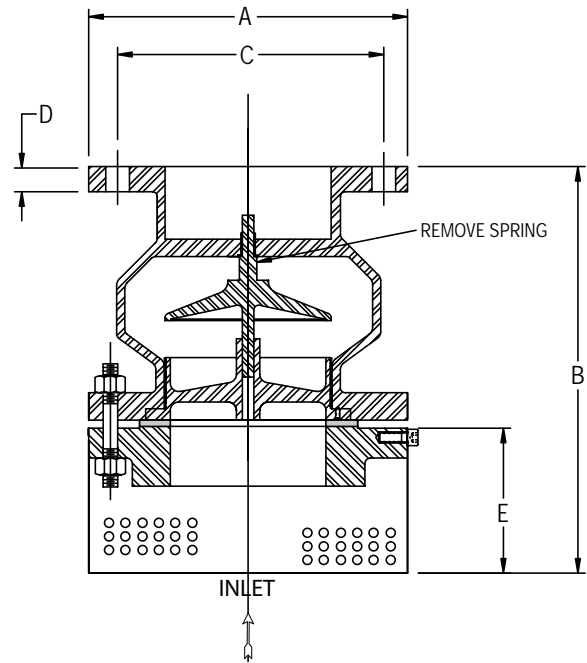
150FV SERIES CARBON STEEL AND STAINLESS STEEL FLANGED FOOT VALVES

SPECIFICATION

Foot Valve shall be composed of a Check Valve with single disc design with Carbon Steel Flanged body style designed to ASME Sec. VIII and ASME B16.1. The check valve shall have a metal to metal seat with stainless steel seat and disc. The check valve shall be ASME Class 150 rated. The screen shall be SA240 304 stainless steel. The foot valve shall be SSI 150FC Carbon Steel Series.

MATERIALS OF CONSTRUCTION

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



Connections :
2" to 16" Carbon Steel Body Flanged RF
8" to 12" Stainless Steel Body Flanged RF

Seats: All sizes – Stainless Steel

Cracking Pressure:
Vertical Mounting – Consult Factory

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

Size	A	B	C	D	E	Stud Length	Bolt Size	No. of Bolts	Weight
2 (51)	6 (152)	8 $\frac{3}{8}$ (213)	4 $\frac{3}{4}$ (121)	3/4 (19)	3 (76)	3 $\frac{3}{4}$ (83)	5/8 (16)	4	25 (11)
2 $\frac{1}{2}$ (64)	7 (178)	8 $\frac{5}{8}$ (219)	5 $\frac{1}{2}$ (140)	7/8 (22)	3 (76)	3 $\frac{1}{2}$ (89)	5/8 (16)	4	35 (16)
3 (76)	7 $\frac{1}{2}$ (191)	9 $\frac{1}{8}$ (244)	6 (152)	15/16 (24)	3 (76)	3 $\frac{3}{4}$ (95)	5/8 (16)	4	45 (20)
4 (102)	9 (229)	11 $\frac{1}{8}$ (283)	7 $\frac{1}{2}$ (191)	15/16 (24)	3 (76)	3 $\frac{3}{4}$ (95)	5/8 (16)	8	70 (32)
5 (127)	10 (254)	13 $\frac{3}{8}$ (340)	8 $\frac{1}{2}$ (216)	15/16 (24)	4 (102)	4 (102)	3/4 (19)	8	90 (41)
6 (152)	11 (279)	15 $\frac{1}{8}$ (403)	9 $\frac{1}{2}$ (241)	1 (25)	5 (127)	4 (102)	3/4 (19)	8	115 (52)
8 (200)	13 $\frac{1}{2}$ (343)	19 $\frac{1}{8}$ (498)	11 $\frac{3}{4}$ (298)	1 $\frac{1}{8}$ (29)	6 (152)	4 $\frac{1}{4}$ (108)	3/4 (19)	8	181 (82)
10 (254)	16 (406)	23 $\frac{3}{8}$ (600)	14 $\frac{1}{4}$ (362)	1 $\frac{3}{16}$ (30)	7 (178)	4 $\frac{1}{4}$ (121)	7/8 (22)	12	265 (120)
12 (305)	19 (483)	23 $\frac{3}{8}$ (594)	17 (432)	1 $\frac{1}{4}$ (32)	8 (203)	4 $\frac{1}{4}$ (121)	7/8 (22)	12	425 (193)
14' (356)	21 (533)	25 $\frac{1}{8}$ (657)	18 $\frac{3}{4}$ (476)	1 $\frac{1}{2}$ (35)	9 (229)	5 $\frac{1}{4}$ (133)	1 (25)	12	550 (249)
16' (406)	23 $\frac{1}{2}$ (597)	29 (737)	21 $\frac{1}{4}$ (540)	1 $\frac{7}{16}$ (37)	10 (254)	5 $\frac{1}{2}$ (140)	1 (25)	16	695 (315)

* 14" and 16" only available in Cast Steel body, contact factory for Stainless Steel body availability.
Dimensions are subject to change. Consult factory for certified drawings when required.

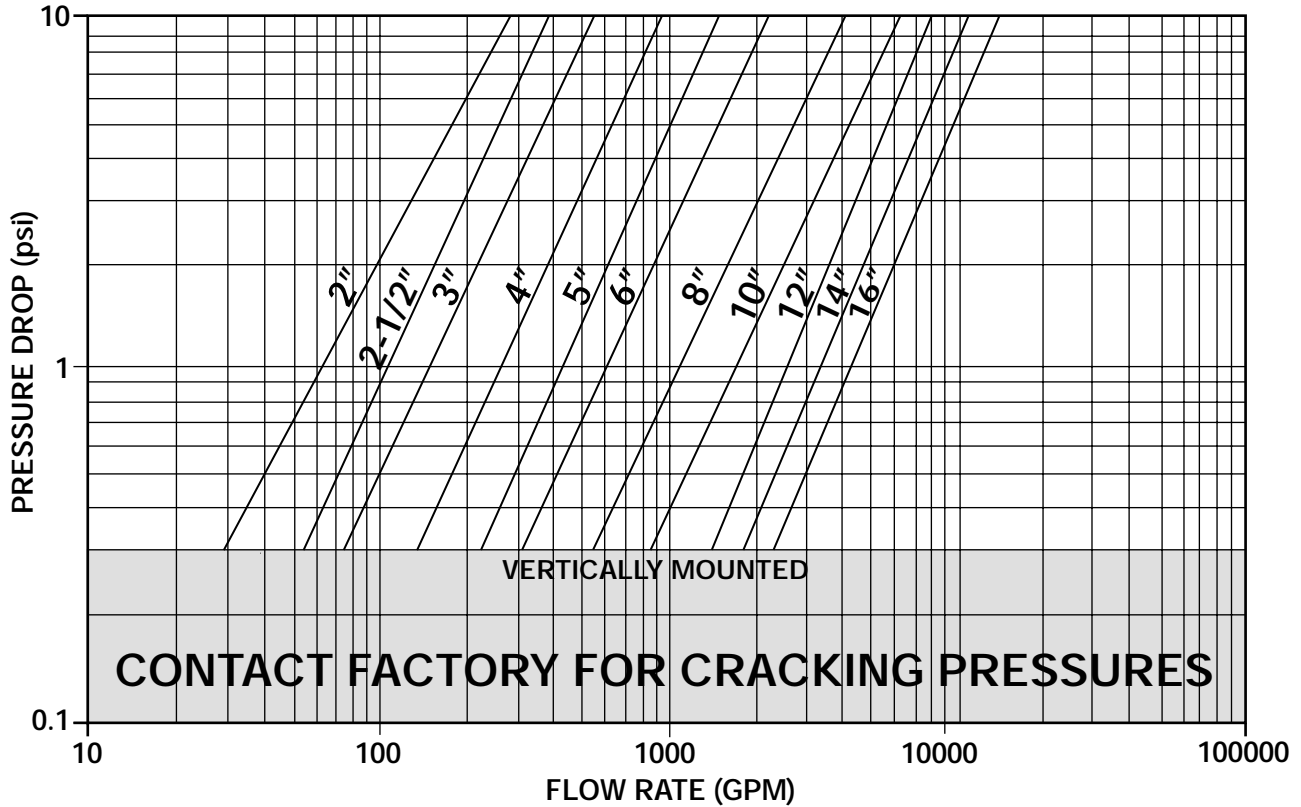
FOOT
VALVES

150FV SERIES

CARBON STEEL AND STAINLESS STEEL FLANGED FOOT VALVES

PRESSURE DROP VS FLOW RATE*

(Sizes 2" - 16")



* Pressure drop curves are based on water flow.

Installation Note

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

Cv Values

Size (inches)	2	2½	3	4	5	6	8	10	12	14	16
Min Cv (@ .3 PSID)	53	99	135	246	402	566	1004	1579	2556	3286	4199
Cv (@ 1 PSID)	63	105	148	265	430	605	1105	1700	2575	3350	4300
Max Cv (@ 10 PSID)	89	120	174	300	474	696	1297	1992	2593	3479	4427