

125FV SERIES CAST IRON FLANGED FOOT VALVES

Pressures to 200 PSI (13.8 barg)
Temperatures to 300°F (149°C)

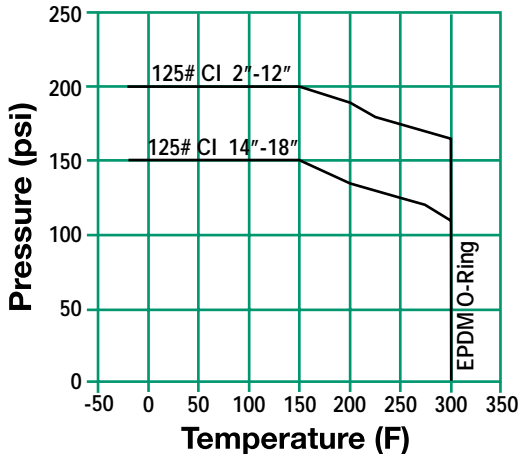


APPLICATIONS

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

- ASME Class 125 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
- Bronze Metal to Metal Seats

PRESSURE/TEMPERATURE CHART
ASME B16.1



MODELS

- 125FVIB – Cast Iron Body, Bronze Seat and Disc

OPTIONS

- Consult factory

APPLICABLE CODES

- Bodies in accordance with ASME B16.1

Canadian Registration - OC10274.5C

FOOT VALVES

125FVIB Series Ordering Code

Inlet Size				Dash	Model								Seat	Dash	Perf	Add'l Mesh
0	6	0	0	-	1	2	5	F	V	I	B	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 - 2 1/2" 0300 - 3" 0400 - 4" 0500 - 5" 0600 - 6" 0800 - 8" 1000 - 10" 1200 - 12" 1400 - 14" 1600 - 16" 1800 - 18"	Dash - Position 5 Model - Position 6 -12 125FVIB - CI Body, Bz Disc, Metal Seat Seat - Position 13 M - Metal Dash - Position 14	Perf - Position 15 304SS Material' 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" 9 - 3/8"	Additional Mesh - Position 16 Leave Blank If Not Required 1 - 10 2 - 20 3 - 30 4 - 40 5 - 50 6 - 60 7 - 70 8 - 80 9 - 90
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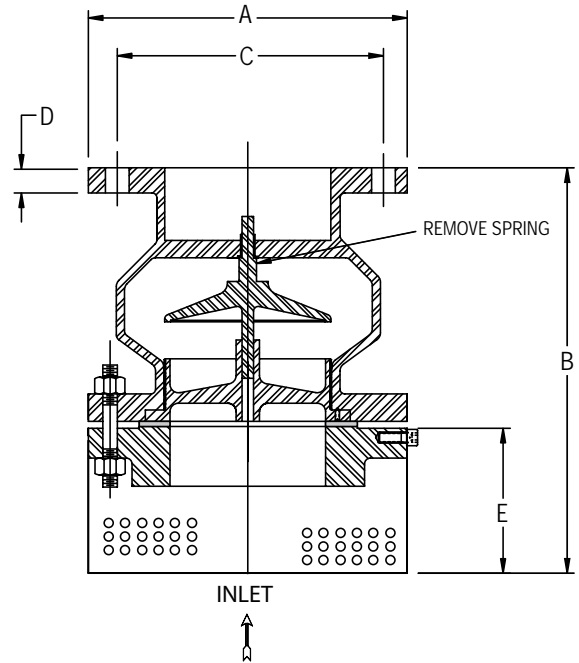
125FV SERIES CAST IRON FLANGED FOOT VALVES

SPECIFICATION

Foot Valve shall be composed of a Check Valve with single disc design with Cast Iron Flanged body style designed to ASME B16.1. The check valve shall have a metal to metal seat with bronze seat and disc. The check valve shall be ASME Class 125 rated. The screen shall be constructed from SA240 304 stainless steel. The foot valve shall be SSI 125FV Cast Iron Series.

MATERIALS OF CONSTRUCTION

BodyA126-B Cast Iron
 DiscB62 Bronze
 SeatB62 Bronze
 Screen Retainer BoltSA193 B8
 StudsSA193 B7
 Hex Nuts.....SA194 2H
 Screen Flange.....SA105
 Screen.....SA240 304
 GasketRed Rubber



Connections : 2" to 18" Flanged FF

Seats: 2" to 18" Bronze

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)	8½ (213)	4¾ (121)	¾ (19)	3 (76)	¾ (83)	5/8 (16)	4	30 (14)
2½ (64)	7 (178)	8½ (219)	5½ (140)	7/8 (22)	3 (76)	¾ (89)	5/8 (16)	4	45 (20)
3 (76)	7½ (191)	9½ (244)	6 (152)	15/16 (24)	3 (76)	¾ (95)	5/8 (16)	4	51 (23)
4 (102)	9 (229)	11½ (283)	7½ (191)	15/16 (24)	3 (76)	¾ (95)	5/8 (16)	8	83 (38)
5 (127)	10 (254)	13½ (340)	8½ (216)	15/16 (24)	4 (102)	4 (102)	¾ (19)	8	104 (47)
6 (152)	11 (279)	15½ (403)	9½ (241)	1 (25)	5 (127)	4 (102)	¾ (19)	8	133 (60)
8 (203)	13½ (343)	19½ (498)	11¼ (298)	1½ (29)	6 (152)	4¼ (108)	¾ (19)	8	215 (98)
10 (254)	16 (406)	23½ (600)	14¼ (362)	1⅞ (30)	7 (178)	4¼ (121)	7/8 (22)	12	324 (147)
12 (305)	19 (483)	23½ (594)	17 (432)	1¼ (32)	8 (203)	4¼ (121)	7/8 (22)	12	557 (253)
14 (356)	21 (533)	25½ (657)	18¾ (476)	1½ (35)	9 (229)	5¼ (133)	1 (25)	12	890 (404)
16 (406)	23½ (597)	29 (737)	21¼ (540)	1⅞ (37)	10 (254)	5½ (140)	1 (25)	16	1034 (469)
18 (457)	25 (635)	31½ (791)	22¾ (578)	1⅞ (40)	11 (279)	6 (152)	1½ (29)	16	1171 (531)

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

FOOT VALVES

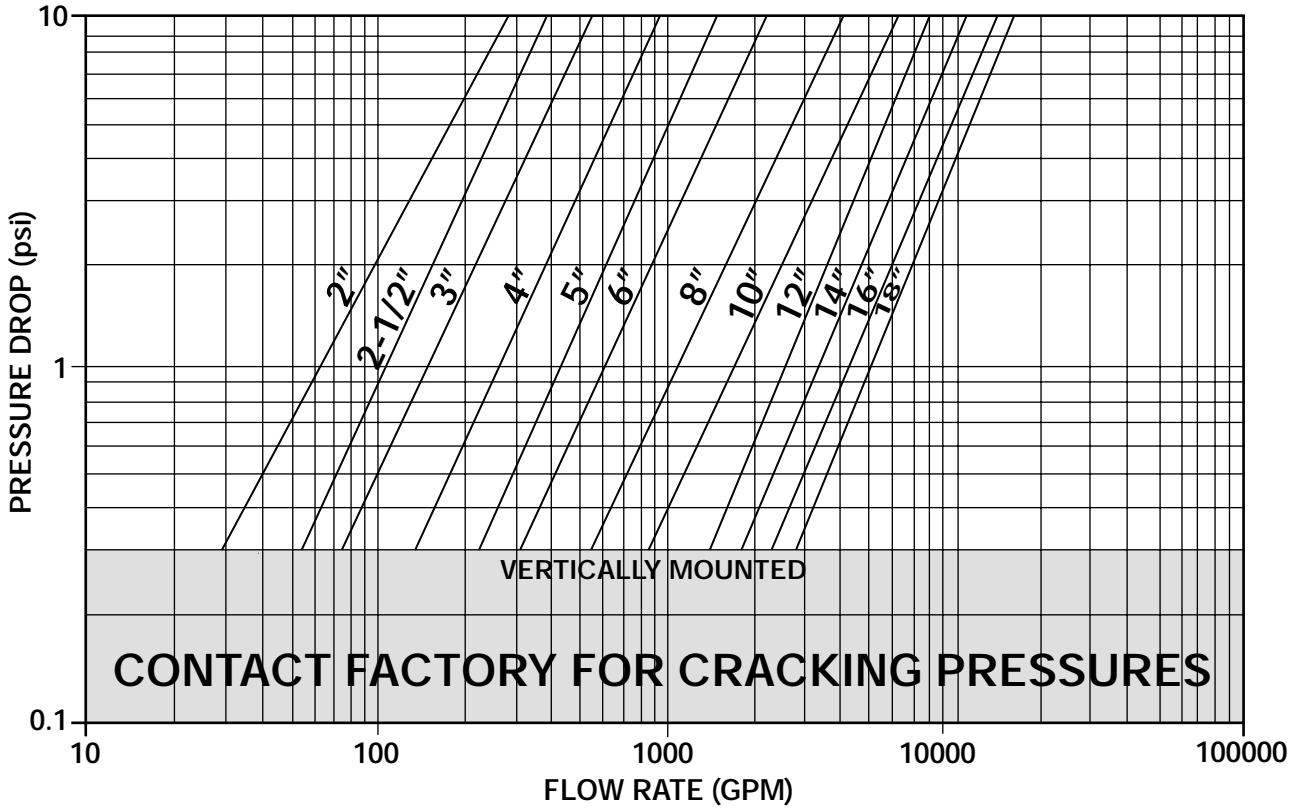


125FV SERIES

CAST IRON FLANGED FOOT VALVES

PRESSURE DROP VS FLOW RATE*

(Sizes 2" - 18")



* 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	18
Min Cv @ .3 PSID)	53	99	135	246	402	566	1004	1579	2556	3286	4199	5112
Cv (@ 1 PSID)	63	105	148	265	430	605	1105	1700	2575	3350	4300	5225
Max Cv (@ 10 PSID)	89	120	174	300	474	696	1297	1992	2593	3479	4427	5376