

Applications

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

Flanged Silent Check Valves

**Pressures to 285 PSIG
Temperatures to 400°F**

FEATURES

- Silent Non-slam Closure
- Flanged Body Style
- Metal to Metal Seats

MATERIALS

- Cast Iron Body;
Bronze Disc
- Cast Steel Body;
Stainless Steel Disc
- Stainless Steel Body;
Stainless Steel Disc

END CONNECTIONS

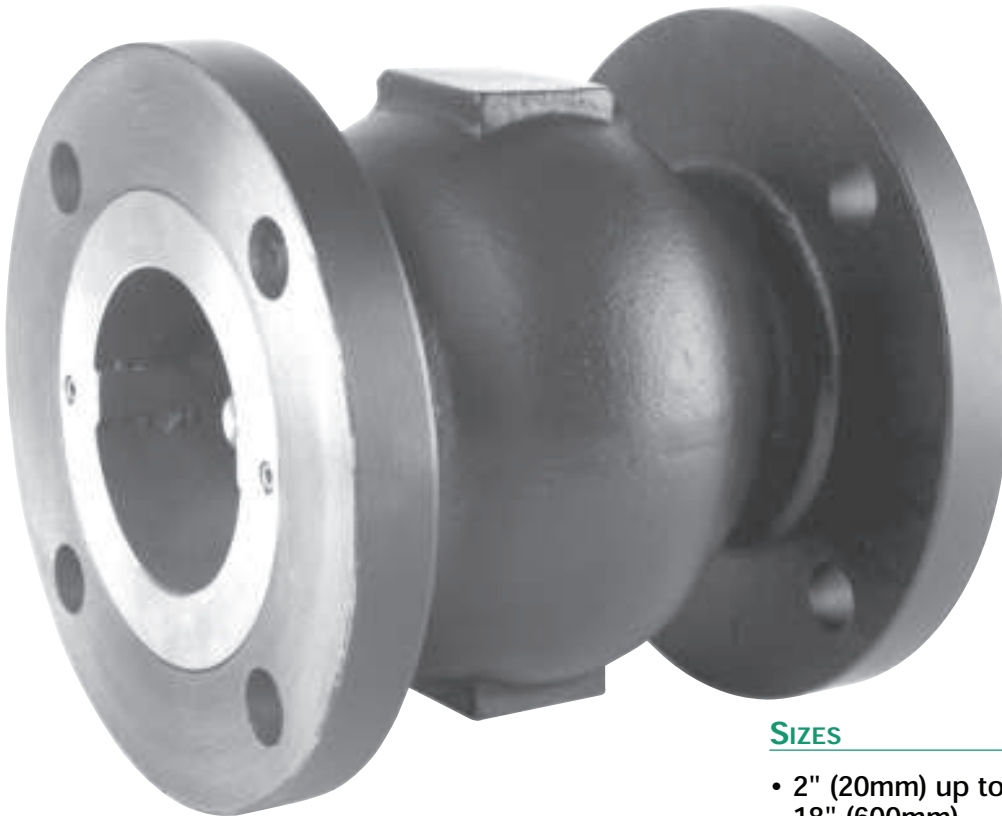
- Flat Faced
- Raised Faced

SIZES

- 2" (20mm) up to
18" (600mm)

RATINGS

- ANSI 125 psig
- ANSI 150 psig



FLANGED SILENT
CHECK VALVES



125FC SERIES CAST IRON FLANGED SILENT CHECK VALVES

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

- ANSI rated 125 PSIG rated strainers
- 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
- Designed to reduce Water Hammer

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MODELS

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

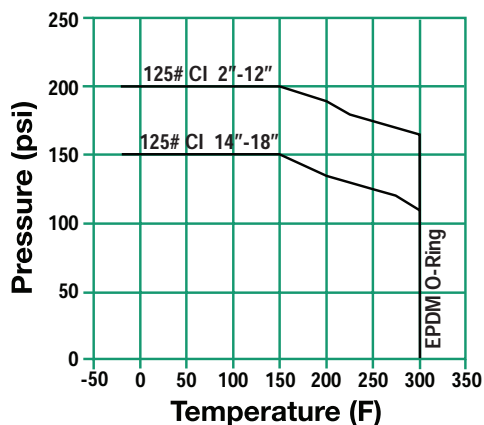
OPTIONS *(Consult factory)*

- Other Spring Material
- Heavier or Lighter Springs

APPLICABLE CODES

- ASME B16.1
- API 598

PRESSURE/TEMPERATURE CHART



125FC Series Ordering Code

Inlet Size				Dash	Model							Seat	Dash	Spring
0	8	0	0	-	1	2	5	F	C	I	B	M	-	T
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

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"
1800 - 18"

Dash - Position 5

Model - Position 6 - 12
125FCIB - CI Body, Bz Disc

Seat - Position 13

M - Metal

Dash - Position 14

Spring - Position 15

T - Stainless Steel

125FC SERIES

CAST IRON FLANGED

SILENT CHECK VALVES

SPECIFICATION

Check Valve shall be single disc design with Cast Iron Flanged body style meeting ASME B16.1. The check valve shall have a metal to metal seat with bronze seat and disc. The check valve shall be ANSI 125 PSIG rated. The spring shall be 316SS. The check valve shall be SSI 125FC Cast Iron Series.

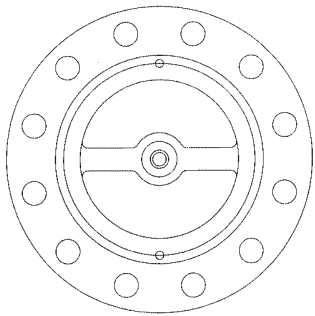
MATERIALS OF CONSTRUCTION

BodyA126-B Cast Iron
 Discs.....B62 Bronze
 SeatB62 Bronze
 Spring316SS
 O-RingEPDM

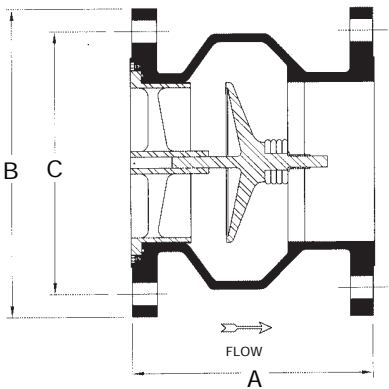
DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

Size	A	B	C	Weight
2 (50)	6 ¹ / ₈ (156)	6 (152)	4 ³ / ₄ (121)	21 (9.4)
2 ¹ / ₂ (65)	7 (178)	7 (178)	5 ¹ / ₂ (140)	31 (13.8)
3 (80)	7 ¹ / ₂ (191)	7 ¹ / ₂ (191)	6 (153)	37 (16.5)
4 (100)	8 ¹ / ₂ (216)	9 (229)	7 ¹ / ₂ (191)	62 (28)
5 (125)	9 ¹ / ₂ (241)	10 (254)	8 ¹ / ₂ (216)	80 (36)
6 (150)	10 ¹ / ₂ (267)	11 (280)	9 ¹ / ₂ (241)	106 (48)
8 (200)	13 ¹ / ₂ (343)	13 ¹ / ₂ (343)	11 ³ / ₄ (299)	175 (79)
10 (250)	16 ¹ / ₄ (413)	16 (406)	14 ¹ / ₄ (362)	267 (121)
12 (300)	20 ¹ / ₄ (515)	19 (483)	17 (431)	477 (216)
14 (350)	22 ³ / ₄ (580)	21 (53)	18 ³ / ₄ (477)	785 (356)
16 (400)	24 ³ / ₄ (629)	23 ¹ / ₂ (597)	21 ¹ / ₄ (540)	900 (408)
18 (450)	22 ¹ / ₂ (572)	25 (635)	22 ³ / ₄ (578)	1032 (468)

Dimensions shown are subject to change.
 Contact factory for certified prints when required.



FRONT VIEW



Connections: 2" to 18" Flanged FF

Seats: 2" to 18" Bronze

Cracking Pressure:
 Horizontal Mounting - .3 psid
 Vertical Mounting - .75 to 1.25 psid

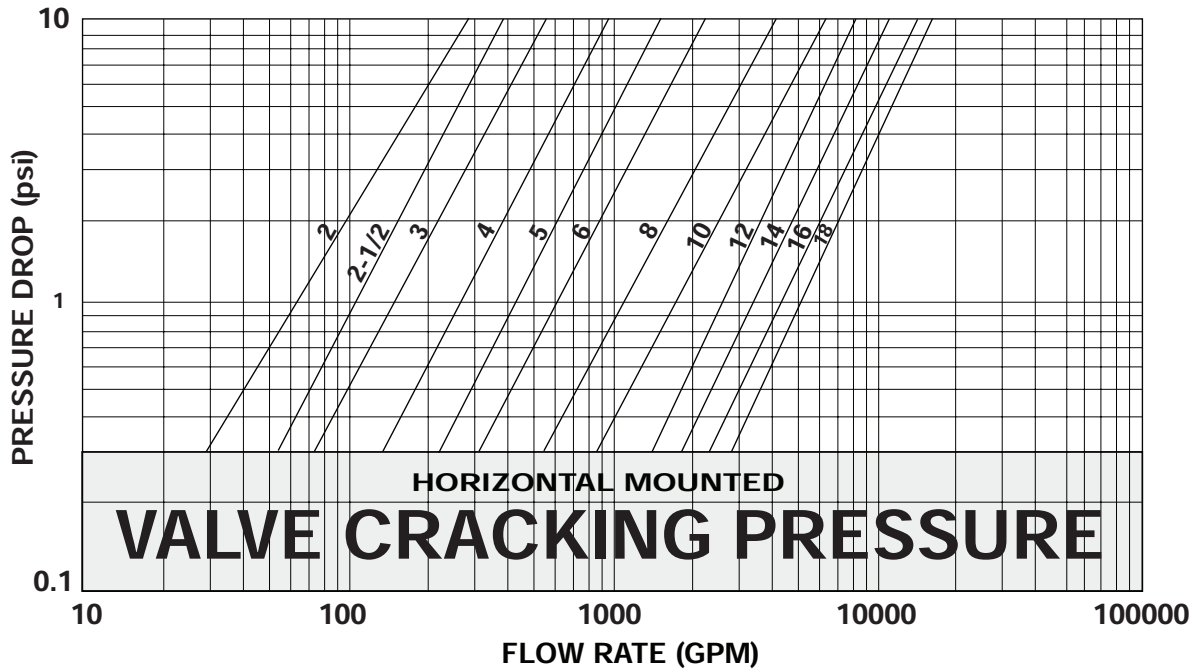
125FC FLANGED SILENT
 CHECK VALVES

125FC SERIES

CAST IRON FLANGED SILENT CHECK VALVES

PRESSURE DROP VS FLOW RATE

(Sizes 2" - 18")



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

Installation Note:

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

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