



# 125FC SERIES CAST IRON FLANGED SILENT CHECK VALVES

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

## APPLICATIONS

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

- 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
- Designed to reduce Water Hammer

## MODELS

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

## OPTIONS *(Consult factory)*

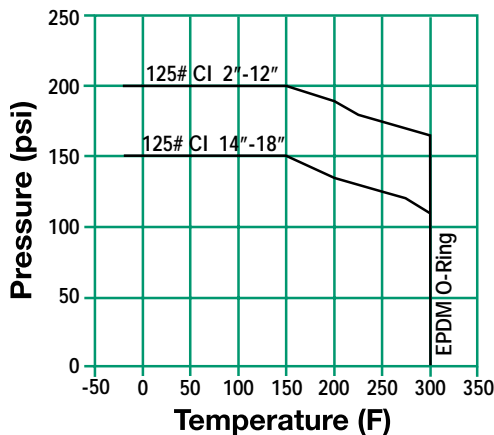
- Other Spring Material
- Heavier or Lighter Springs

## APPLICABLE CODES

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

Canadian Registraton - OC10274.5C

**PRESSURE/TEMPERATURE CHART**  
ASME 16.1



FLANGED SILENT CHECK VALVES

## 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 - 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
125FCIB - CI Body, Bz Disc
Seat - Position 13
M - Metal
Dash - Position 14
Spring - Position 15
T - Stainless Steel



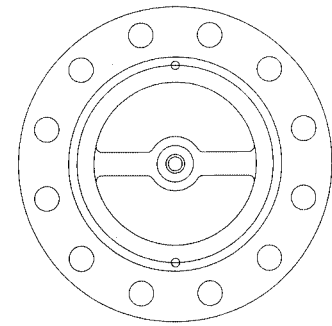
# 125FC SERIES CAST IRON FLANGED SILENT CHECK VALVES

## SPECIFICATION

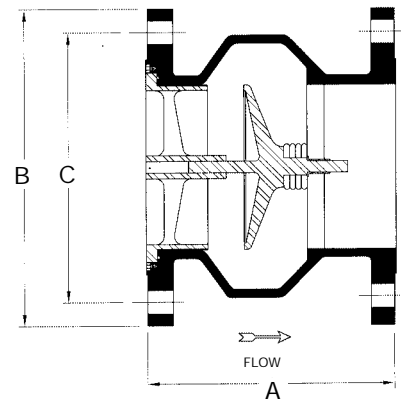
Check Valve shall be single disc design with Cast Iron Flanged body style designed to ASME B16.1. The check valve shall have a metal to metal seat with bronze seat and disc. The check valve shall be ASME Class 125 rated. The spring shall be 316SS. The check valve shall be SSI 125FC Cast Iron Series.

## MATERIALS OF CONSTRUCTION

Body .....A126-B Cast Iron  
Discs.....B62 Bronze  
Seat .....B62 Bronze  
Spring .....316SS  
O-Ring .....EPDM



FRONT VIEW



## DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

Size	A	B	C	Weight
2 (50)	6 <sup>1</sup> / <sub>8</sub> (156)	6 (152)	4 <sup>3</sup> / <sub>4</sub> (121)	21 (9.4)
2 <sup>1</sup> / <sub>2</sub> (65)	7 (178)	7 (178)	5 <sup>1</sup> / <sub>2</sub> (140)	31 (13.8)
3 (80)	7 <sup>1</sup> / <sub>2</sub> (191)	7 <sup>1</sup> / <sub>2</sub> (191)	6 (153)	37 (16.5)
4 (100)	8 <sup>1</sup> / <sub>2</sub> (216)	9 (229)	7 <sup>1</sup> / <sub>2</sub> (191)	62 (28)
5 (125)	9 <sup>1</sup> / <sub>2</sub> (241)	10 (254)	8 <sup>1</sup> / <sub>2</sub> (216)	80 (36)
6 (150)	10 <sup>1</sup> / <sub>2</sub> (267)	11 (280)	9 <sup>1</sup> / <sub>2</sub> (241)	106 (48)
8 (200)	13 <sup>1</sup> / <sub>2</sub> (343)	13 <sup>1</sup> / <sub>2</sub> (343)	11 <sup>3</sup> / <sub>4</sub> (299)	175 (79)
10 (250)	16 <sup>1</sup> / <sub>4</sub> (413)	16 (406)	14 <sup>1</sup> / <sub>4</sub> (362)	267 (121)
12 (300)	20 <sup>1</sup> / <sub>4</sub> (515)	19 (483)	17 (431)	477 (216)
14 (350)	22 <sup>3</sup> / <sub>4</sub> (580)	21 (533)	18 <sup>3</sup> / <sub>4</sub> (477)	785 (356)
16 (400)	24 <sup>3</sup> / <sub>4</sub> (629)	23 <sup>1</sup> / <sub>2</sub> (597)	21 <sup>1</sup> / <sub>4</sub> (540)	900 (408)
18 (450)	22 <sup>1</sup> / <sub>2</sub> (572)	25 (635)	22 <sup>3</sup> / <sub>4</sub> (578)	1032 (468)

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

Connections: 2" to 18" Flanged FF

Seats: 2" to 18" Bronze

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

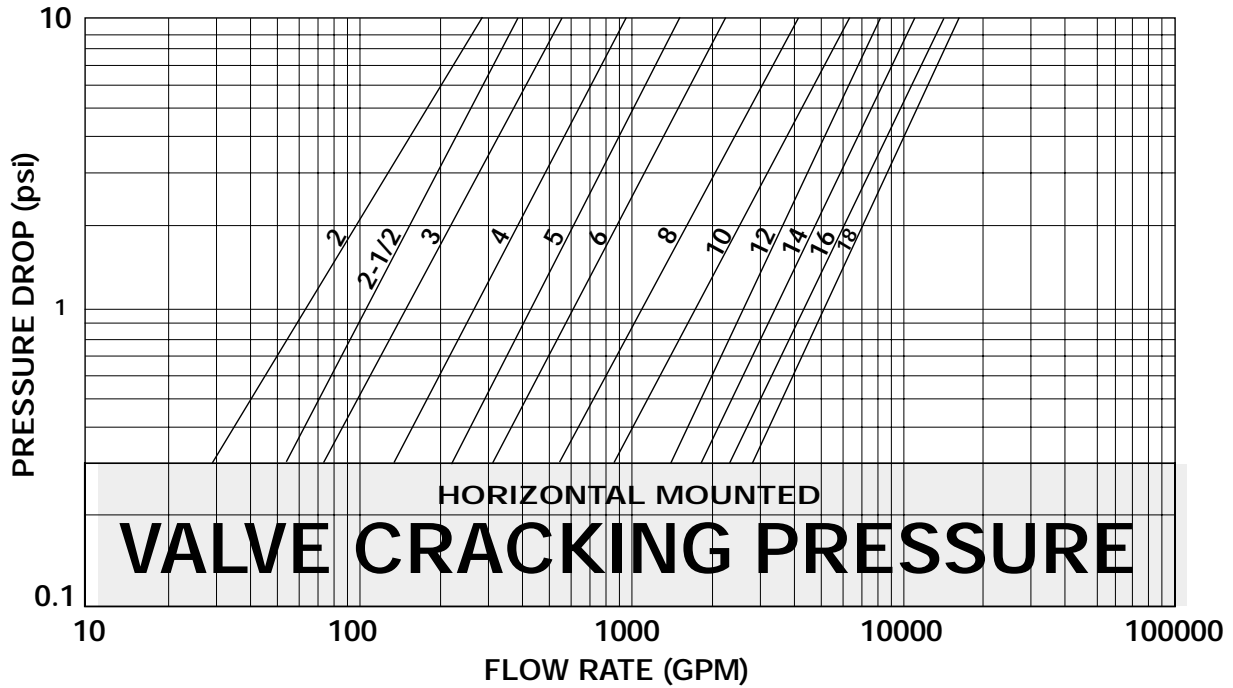
FLANGED SILENT  
CHECK VALVES

# 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

FLANGED SILENT CHECK VALVES

