



# 250FC SERIES CAST IRON FLANGED SILENT CHECK VALVES

Pressures to 400 PSI (27.6. barg)  
Temperatures to 200°F (93°C)

## APPLICATIONS

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

- 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
- Designed to reduce Water Hammer

## MODELS

- 250FCIB - Cast Iron Body, Bronze Seat and Disc

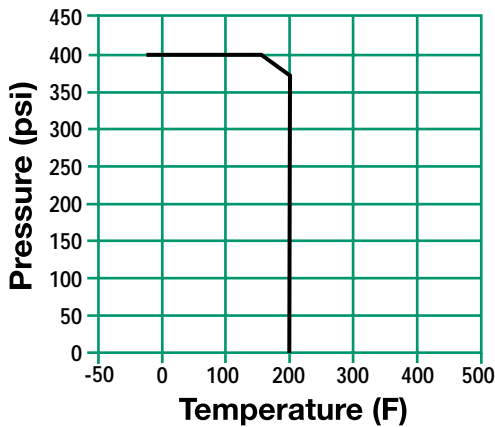
## OPTIONS *(Consult factory)*

- Other Spring Material
- Heavier or Lighter Springs

## APPLICABLE CODES *(Designed in accordance with)*

- ASME B16.1

**PRESSURE/TEMPERATURE CHART**  
ASME B16.1



FLANGED SILENT  
CHECK VALVES

## 250FC Series Ordering Code

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

<b>Inlet Size</b> - Position 1 - 4
0250 - 2 1/2"
0300 - 3"
0400 - 4"
0500 - 5"
0600 - 6"
0800 - 8"
1000 - 10"
1200 - 12"

<b>Dash</b> - Position 5
<b>Model</b> - Position 6 - 12
250FCIB - CI Body, Bz Disc
<b>Seat</b> - Position 13
M - Metal
<b>Dash</b> - Position 14
<b>Spring</b> - Position 15
T - Stainless Steel



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## 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 250 rated. The spring shall be 304SS. The check valve shall be SSI 250F Cast Iron Series.

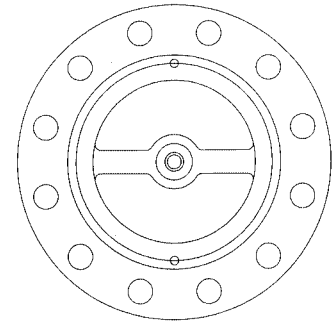
## MATERIALS OF CONSTRUCTION

Body .....A126-A Cast Iron  
Discs.....B62 Bronze  
Seat .....B62 Bronze  
Spring .....304SS  
O-Ring .....EPDM

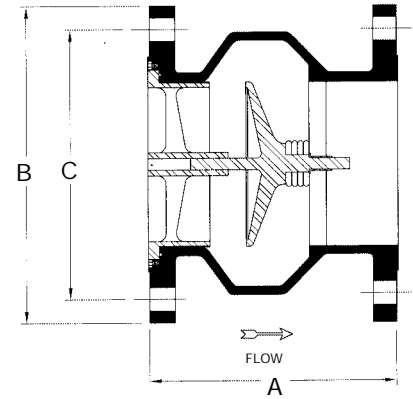
## DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

Size	A	B	C	Weight
2½ (65)	5½ (127)	5½ (127)	5½ (150)	30 (13.6)
3 (80)	6 (140)	8¼ (216)	6¾ (168)	36 (16.4)
4 (100)	7¼ (184)	10 (254)	7¾ (200)	59 (27)
5 (125)	8½ (216)	11 (280)	9¼ (235)	78 (36)
6 (150)	9¾ (248)	12½ (318)	10¾ (270)	103 (47)
8 (200)	12½ (318)	15 (381)	13 (331)	179 (82)
10 (250)	15½ (394)	17½ (445)	15¼ (388)	253 (115)
12 (300)	14¾ (362)	20½ (521)	17¾ (451)	401 (182)

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



FRONT VIEW



Connections: 2½" to 12" Flanged FF

Seats: 2½" to 12" Bronze

Cracking Pressure: .5 psid

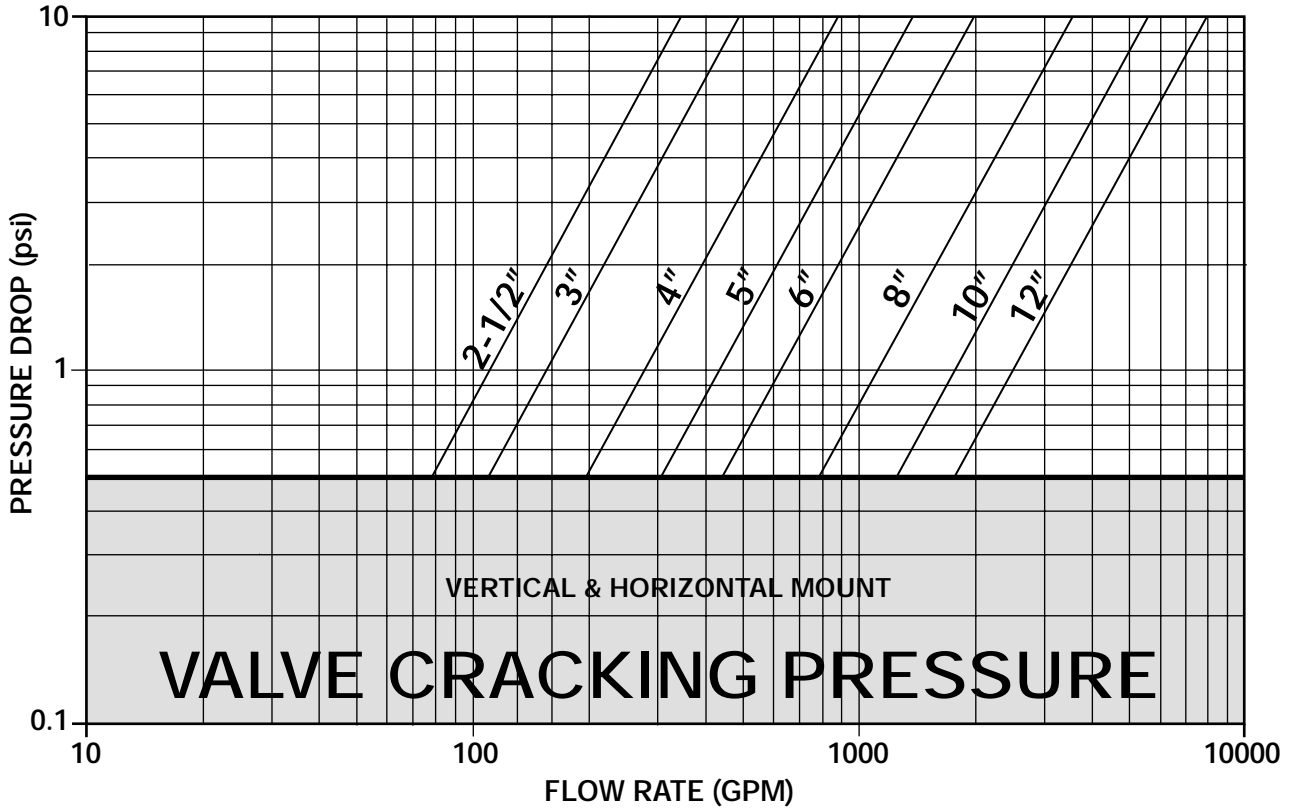
FLANGED SILENT  
CHECK VALVES

# 250FC SERIES

## CAST IRON FLANGED SILENT CHECK VALVES

### PRESSURE DROP VS FLOW RATE<sup>1</sup>

(Sizes 2½" - 12")



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

#### Installation Note

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

#### Cv Values

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

