150WC SERIES

CAST STEEL AND STAINLESS STEEL WAFER SILENT CHECK VALVES

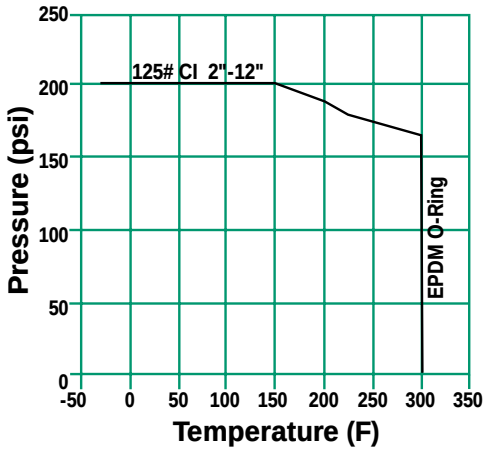
Pressures to 285 PSIG (19.7 barg)
Temperatures to 400ºF (204ºC)

- **ASME Class 150 rated check valves**
- **Designed to reduce surge and Water Hammer**
- **Silent, non-slam closure**
- **Center guided at both ends to prevent binding and cocking**
- **Compact face to face length for space saving**
- **Wafer body style fits between FF or RF flanges**
- **Dual rating 150# and 300# in sizes 2" through 6"**

APPLICATIONS

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

PRESSURE/TEMPERATURE CHART
ASME 16.34



MODELS

- 150WCCT – Cast Steel Body, Stainless Steel Disc
- 150WCTT – Stainless Steel Body, Stainless Steel Disc

OPTIONS *(Consult factory)*

- Viton Seats
- Other Spring Material
- Heavier or Lighter Springs

APPLICABLE CODES

- ASME Sec. VIII and B16.34 Bodies
- API 598

Canadian Registration - OC10274.5C

150WC Series Ordering Code

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

Inlet Size* - Position 1 - 4
2" through 6" sizes use 300WC Series
0800 - 8"
1000 - 10"
1200 - 12"

Dash - Position 5

Model - Position 6 - 12
150WCCT - Cast Steel Body, Stainless Steel Disc
150WCTT - Stainless Steel Body, Stainless Steel Disc

Seat - Position 13
M - Metal

Dash - Position 14

Spring - Position 15
T - Stainless Steel

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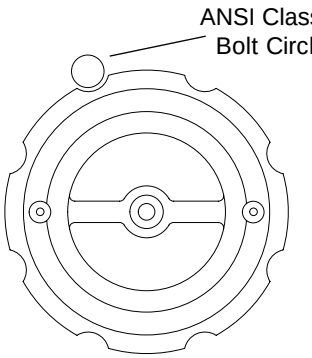
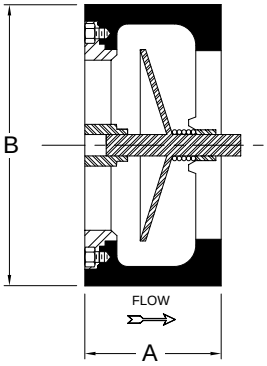


SPECIFICATION

Check Valve shall be single disc design with Cast Steel or Stainless Steel wafer body style designed to ASME Sec. VIII and ASME B16.34 and API 594. The check valve shall have a SS seat and disc and be center guided from both ends. The check valve shall be ANSI 150 PSIG rated. The spring shall be 316SS. The check valve shall be SSI 150WC Cast Steel or Stainless Steel Series.

MATERIALS OF CONSTRUCTION

Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Discs	A351-CF8M	A351-CF8M
Seat	A351-CF8M	A351-CF8M
Spring	316SS	316SS
O-Ring	Viton	Viton



DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

Size	A	B*	QTY	Stud Selection Dia.	Stud Selection Length	Weight
2[1] (50)	*Use 2" 300WC on page 205*					
2½[1] (65)	*Use 2½" 300WC on page 205*					
3[1] (80)	*Use 3" 300WC on page 205*					
4[1] (100)	*Use 4" 300WC on page 205*					
5[1] (125)	*Use 5" 300WC on page 205*					
6[1] (150)	*Use 6" 300WC on page 205*					
8 (200)	6½ (165)	11 (279)	8	¾ (19)	11¼ (286)	79 (35.8)
10 (250)	8¼ (209)	13⅜ (340)	12	⅞ (22)	12¼ (57)	147 (66.7)
12 (300)	11¼ (286)	16⅛ (410)	12	⅞ (22)	16½ (165)	280 (127)

1. Sizes 2” through 6” 150WC and 300WC are interchangeable, use 300WC for all applications in these sizes.

* Add the “B” dimension and the diameter of the stud to achieve the ANSI B16.5 Bolt Hole Circle Diameter.

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

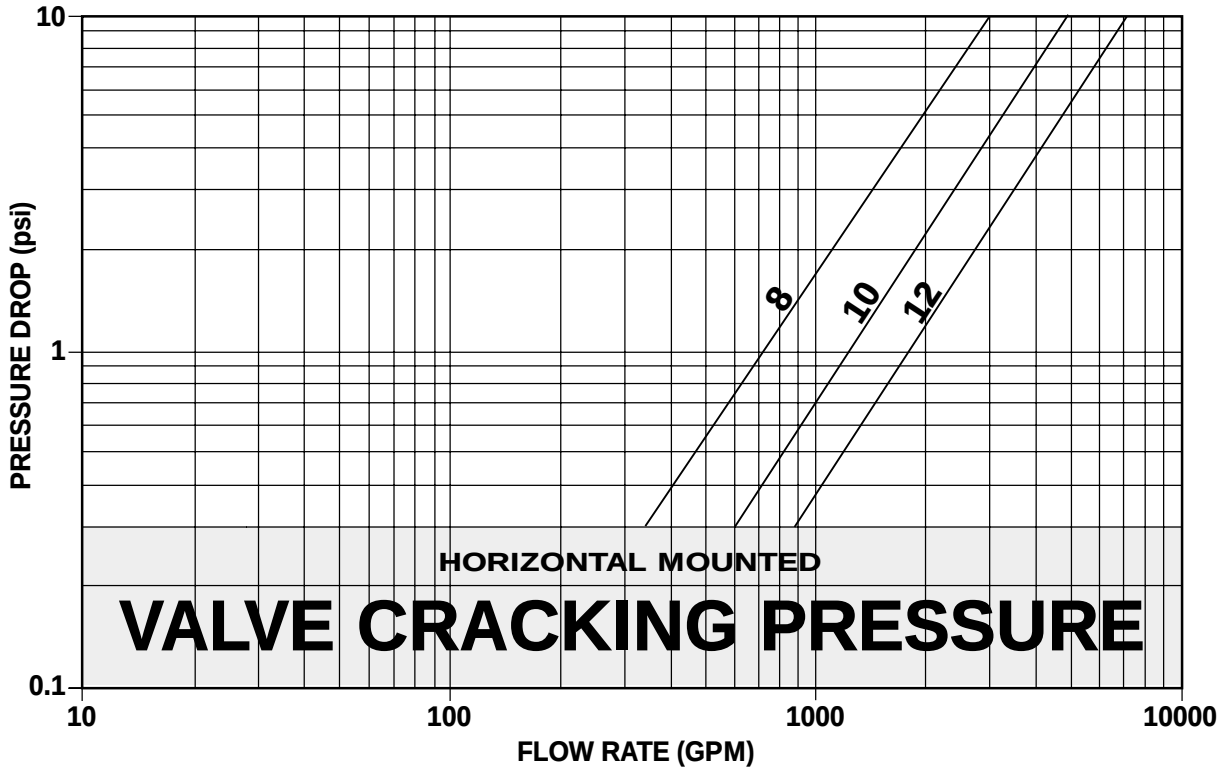
Connections: 8" to 12" Wafer Flanged RF*

** For sizes 2"-6" use 300WC on page 205*

Seats: 8" to 12" Stainless Steel

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

150WC SERIES
CAST STEEL & STAINLESS STEEL
WAFER SILENT CHECK VALVES
PRESSURE DROP VS FLOW RATE
(Sizes 8" - 12")



(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)	8	10	12
Min Cv (.3 PSID)	639	1114	1604
Cv (@ 1 PSID)	740	1250	1800
Max Cv (@ 10 PSID)	1297	1992	2593