

# 150WT SERIES CAST STEEL AND STAINLESS STEEL DOUBLE DOOR CHECK VALVES

PRESSURES TO 285 PSIG (19.7 BARG)  
TEMPERATURES TO 600°F (316°C)

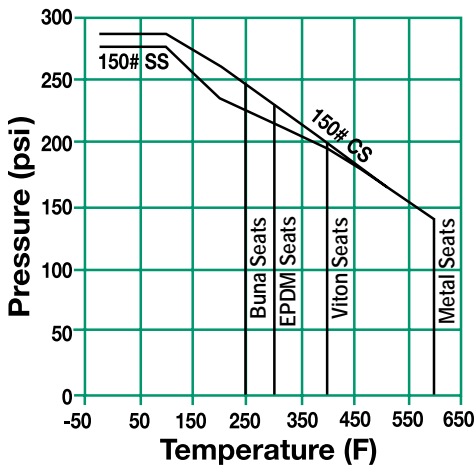
DOUBLE DOOR  
CHECK VALVES

## APPLICATIONS

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

- ASME Class 150 rated check valves
- Wafer body style fits between FF or RF flanges
- Size 6" and larger are supplied with a valve lifting lug
- Upper and lower SS thrust washers
- Resilient Buna-N , Viton and metal seats
- Seat design lifts then swings discs to minimize seat wear
- Shock bumpers minimize stresses in hinge pins
- Independent springs optimizes valve plate closing rates while minimizing spring stress
- Dual rating 2" - 3" 150#, 300# and 600# Classes
- Dual ratings 4" 150# and 300# Classes

**PRESSURE/TEMPERATURE CHART**  
ASME B16.34



## MODELS

- 150WTCT – Cast Steel Body, Stainless Steel Disc, Buna Seat
- 150WTTT – Stainless Steel Body, Stainless Steel Disc, Metal or Viton Seat

## OPTIONS

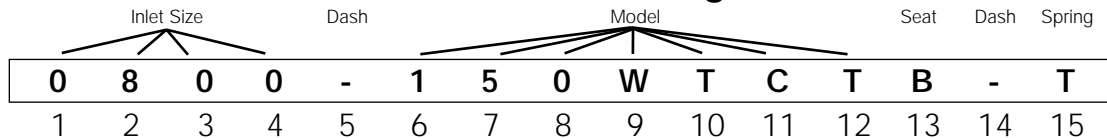
- EPDM Seats
- Other Spring Material

## APPLICABLE CODES

- ASME B16.34 ratings
- API 594
- API 598

Canadian Registration - OC10274.5C

## 150WT Series Ordering Code



**Inlet Size** - Position 1 - 4  
 2", 2½", 3" sizes use 600WT Series.  
 4" size use 300WT Series  
 0600 - 6"  
 0800 - 8"  
 1000 - 10"  
 1200 - 12"

**Dash** - Position 5

**Model** - Position 6 - 12  
 150WTCT - CS Body  
 150WTTT - SS Body

**Seat\*** - Position 13  
 B - Buna-N (CS Body only)  
 M - Metal (SS Body only)  
 V - Viton (SS Body only)

**Dash** - Position 14

**Spring** - Position 15  
 T - SS

\*150WTCT - Buna-N seat only  
 150WTTT - Viton or Metal seat



# 150WT SERIES CAST STEEL AND STAINLESS STEEL DOUBLE DOOR CHECK VALVES

## SPECIFICATION

Check Valve shall be dual disc design with Cast Steel or Stainless Steel Body wafer body style designed to ASME B16.34 ratings and API 594. The check valve shall have an integral cast bumper and Buna-N, Viton or metal seat with SS discs. The check valve shall be ASME Class 150 rated. The spring shall be 316SS. The seat design shall lift then swing discs to minimize seat wear. The check valve shall be SSI 150WT Series.

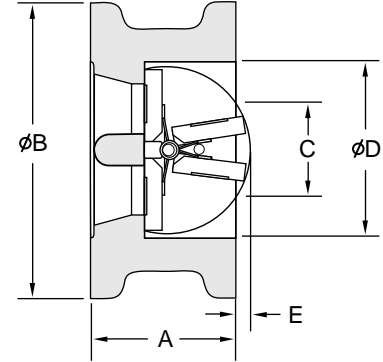
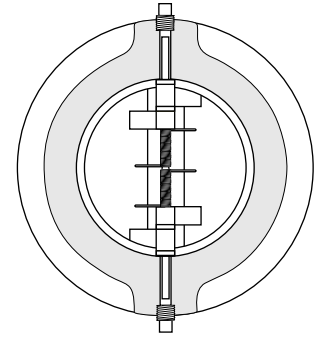
## MATERIALS OF CONSTRUCTION

Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Discs	A351-CF8M	A351-CF8M
Seat	Buna-N	Viton or Metal
Spring	304 SS	304 SS

## CRACKING PRESSURE

Horizontal Mounting - .3psid

Vertical Mounting - .75 to 1.25 psid



DOUBLE DOOR  
CHECK VALVES

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

Size	A <sup>1</sup>	B <sup>2</sup>	C <sup>2</sup>	D	E	STUD SELECTION			Weight
						Qty.	Dia.	Length	
2 <sup>3</sup> (50)	Use 2" 600WT-150# on page 191								
2½ (66)	Use 2½" 600WT-150# on page 191								
3 <sup>3</sup> (80)	Use 3" 600WT-150# on page 191								
4 <sup>4</sup> (100)	Use 4" 300WT-150# on page 187								
6 (150)	3½ (99)	8¾ (222)	5¾ (137)	6¾ (168)	1¾ (35)	8	¾ (19)	8¾ (210)	35 (15.9)
8 (200)	5 (127)	11 (279)	7¾ (187)	8¾ (219)	2 (51)	8	¾ (19)	9¾ (248)	70 (31.8)
10 (250)	5¾ (146)	13¾ (340)	9½ (241)	10¾ (273)	2¾ (73)	12	7/8 (22)	11 (279)	114 (51.8)
12 (300)	7¾ (181)	16¾ (410)	11¼ (286)	12¾ (324)	3¾ (86)	12	7/8 (22)	12¼ (311)	180 (81.8)

Connections: 6" to 12"  
RF Wafer Flanged

Seats:  
CS Body - 6" to 12" Buna-N  
SS Body - 6" to 12" Viton or Metal

1. Dimensions in accordance with API 594.
2. Minimum bore diameter of companion flanges.
3. Sizes 2", 2½", 3" 150WT, 300WT & 600WT are interchangeable, use 600WT for all applications in these sizes.
4. Size 4", 150WT & 300WT are interchangeable, use 300WT for 4" size.

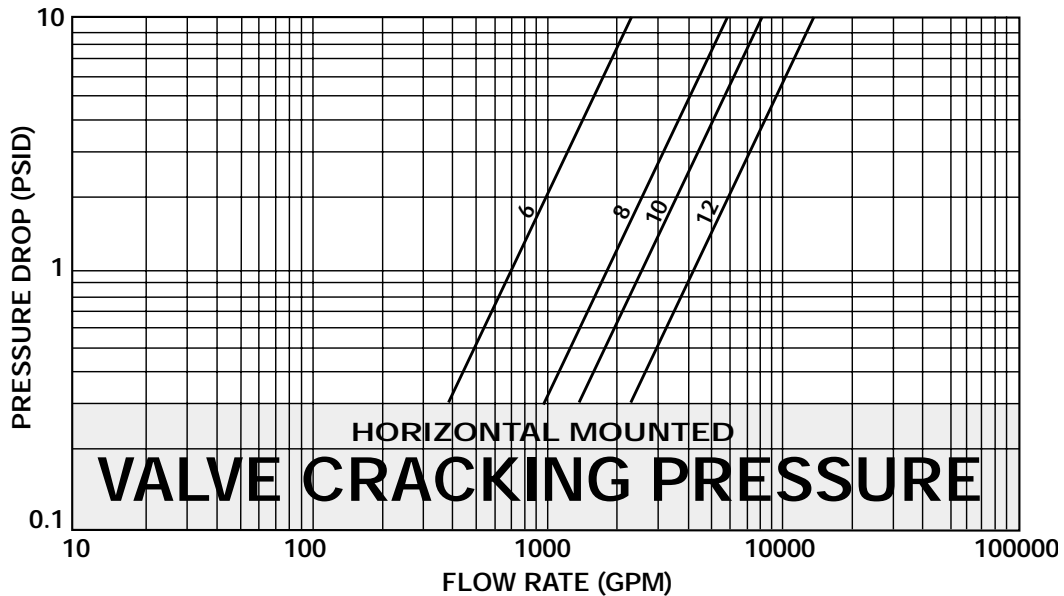
\* Add the "B" dimension and the diameter of the stud to achieve the ANSI B16.5 bolt hole circle diameter.

# 150WT SERIES DOUBLE DOOR CHECK VALVES

## CAST STEEL AND STAINLESS STEEL

### PRESSURE DROP - LIQUIDS

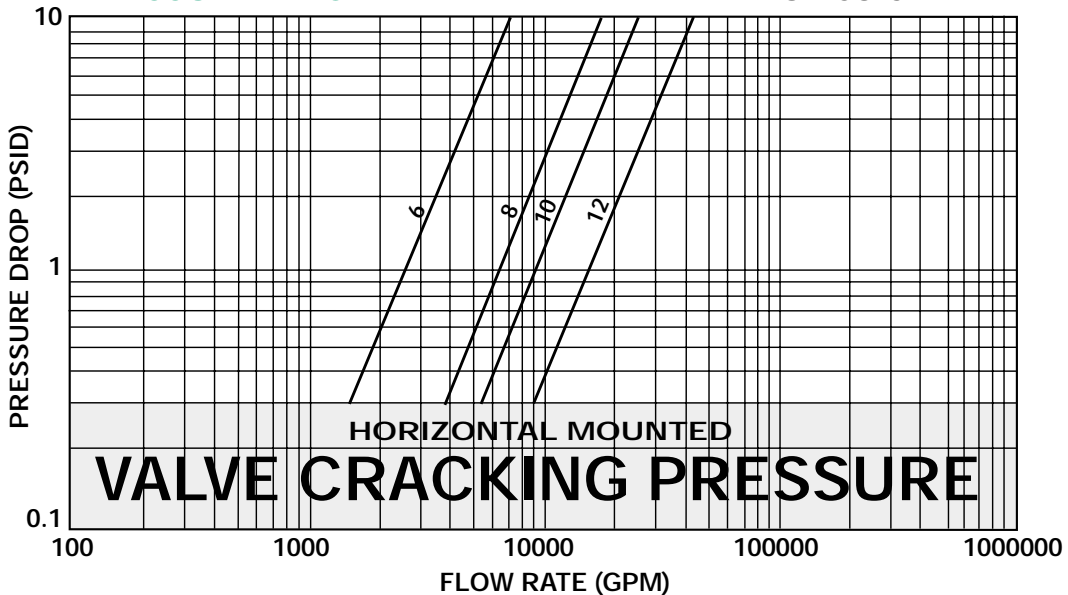
Sizes 6" - 12"



- (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.

### PRESSURE DROP - AIR

Sizes 6" - 12"



- (1) Pressure drop curves are based on air flow at 60 OF and 1 ATM pressure.
- (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) Horizontal installation – Disc pin must be installed in vertical position.
- 3) Vertical installation (downward flow) – Consult factory.

## C<sub>v</sub> VALUES (US-GPM @ 1 PSID)

Valve Size (inches)	6	8	10	12
C <sub>v</sub>	705	1795	2563	4295

