



APPLICATIONS

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

300WT SERIES CAST STEEL AND STAINLESS STEEL DOUBLE DOOR CHECK VALVES

PRESSURES TO 740 PSIG (51 BARG)

TEMPERATURES TO 600°F (316°C)

- ANSI 300 PSIG 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 and Viton
- 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 ratings 2"-3" 150#, 300# and 600#.
- Dual ratings 4" 150# and 300#.

MODELS

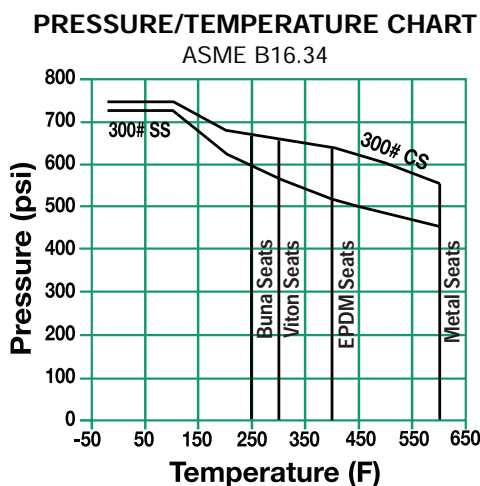
- 300WTCT – Cast Steel Body, Stainless Steel Disc, Buna Seat
- 300WTTT – Stainless Steel Body, Stainless Steel Disc, Viton Seat

OPTIONS (CONSULT FACTORY)

- EPDM Seats
- Other Spring Material

APPLICABLE CODES

- ASME B16.34
- API 594
- API 598



Contact factory for EPDM pressure/temperature range.

300WT Series Ordering Code

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

Inlet Size* - Position 1 - 4
 2", 2½", 3" sizes use 600WT Series
 0400 - 4"
 0600 - 6"
 0800 - 8"
 1000 - 10"
 1200 - 12"
Dash - Position 5

Model - Position 6 - 12
 300WTCT - CS Body
 300WTTT - SS Body
Seat* - Position 13
 B - Buna-N (CS Body only)
 V - Viton (SS Body only)
Dash - Position 14
Spring - Position 15
 T - SS

*300WTCT - Buna-N seat only
 300WTTT - Viton seat only

300WT 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 meeting ASME B16.34 and API 594. The check valve shall have an integral cast bumper and Buna-N or Viton resilient seats with SS discs. The check valve shall be ANSI 300 PSIG rated. The spring shall be 316SS. The seat design shall lift then swing discs to minimize seat wear. The check valve shall be SSI 300WT Series..

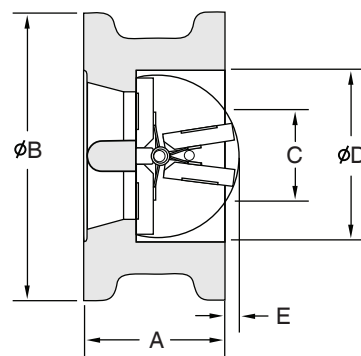
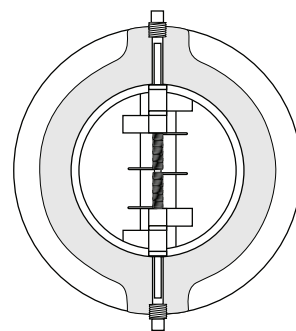
MATERIALS OF CONSTRUCTION

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

CRACKING PRESSURE

Horizontal Mounting - .3psid

Vertical Mounting - .75 to 1.25 psid



**300WT DOUBLE DOOR
CHECK VALVE**

Connections: 4" to 12"
Wafer Flanged

Seats:
CS Body - 4" to 12" Buna-N
SS Body - 4" to 12" Viton

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

Size		A ¹	B [*]	C ²	D	E	STUD SELECTION			Weight
							Qty.	Dia.	Length	
2 ³ (50)		Use 2" 600WT 300# on page 537								
2 ¹ / ₂ ³ (66)		Use 2 ¹ / ₂ " 600WT 300# on page 537								
3 ³ (80)		Use 3" 600WT 300# on page 537								
4 ⁴ (100)	150WT	2.88 (73)	6.88 (175)	3.38 (86)	4.5 (114)	0.75 (19)	8	0.63 (16)	7.00 (178)	18 (8.2)
	300WT	2.88 (73)	7.13 (181)	3.38 (86)	4.5 (114)	0.75 (19)	8	0.75 (19)	8.13 (207)	18 (8.2)
6 (150)		3.88 (99)	9.88 (251)	5.38 (137)	6.63 (168)	1.38 (35)	12	0.75 (19)	9.63 (245)	44 (20.0)
8 (200)		5.00 (127)	12.13 (308)	7.38 (187)	8.63 (219)	2.00 (51)	12	0.88 (22)	11.25 (286)	75 (34.0)
10 (250)		5.75 (146)	14.25 (362)	9.50 (241)	10.75 (273)	2.88 (73)	16	1.00 (25)	12.75 (324)	123 (55.8)
12 (300)		7.13 (181)	16.63 (422)	11.25 (286)	12.75 (324)	3.38 (86)	16	1.13 (29)	14.63 (372)	196 (89.0)

1. Dimensions in accordance with API 594.

2. Minimum bore diameter of companion flanges.

3. Sizes 2", 2 1/2" & 3" for 150WT, 300WT & 600WT are interchangeable, use 600WT for all applications in these sizes.

4. Size 4" for 150WT & 300WT are interchangeable, use 300WT for 4" size. 4" sizes fit between both 150# & 300# flanges.

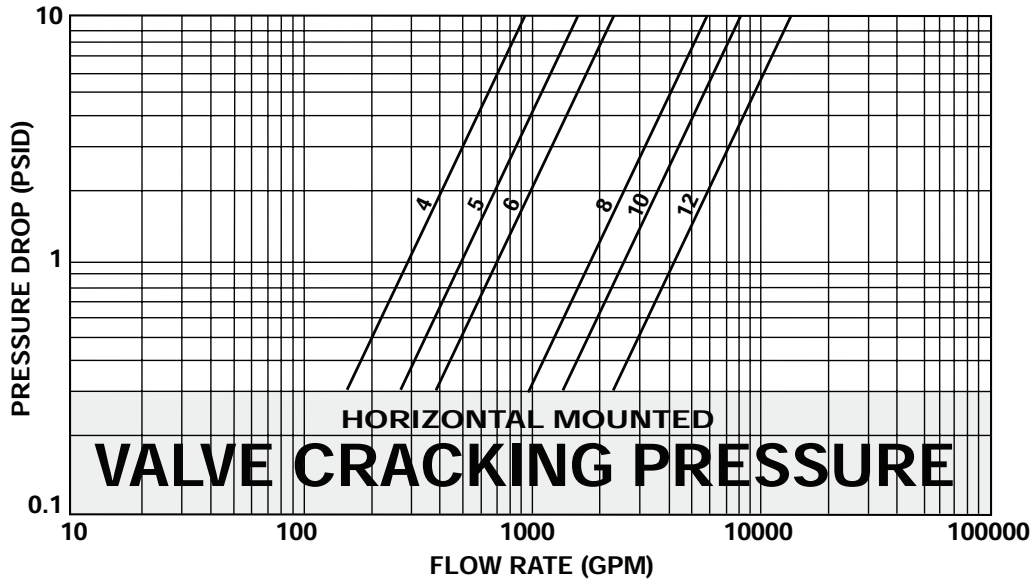
* Add the "B" dimension and the diameter of the stud to achieve the ANSI B16.5 bolt hole circle diameter.

300WT SERIES DOUBLE DOOR CHECK VALVES

CAST STEEL AND STAINLESS STEEL

PRESSURE DROP - LIQUIDS

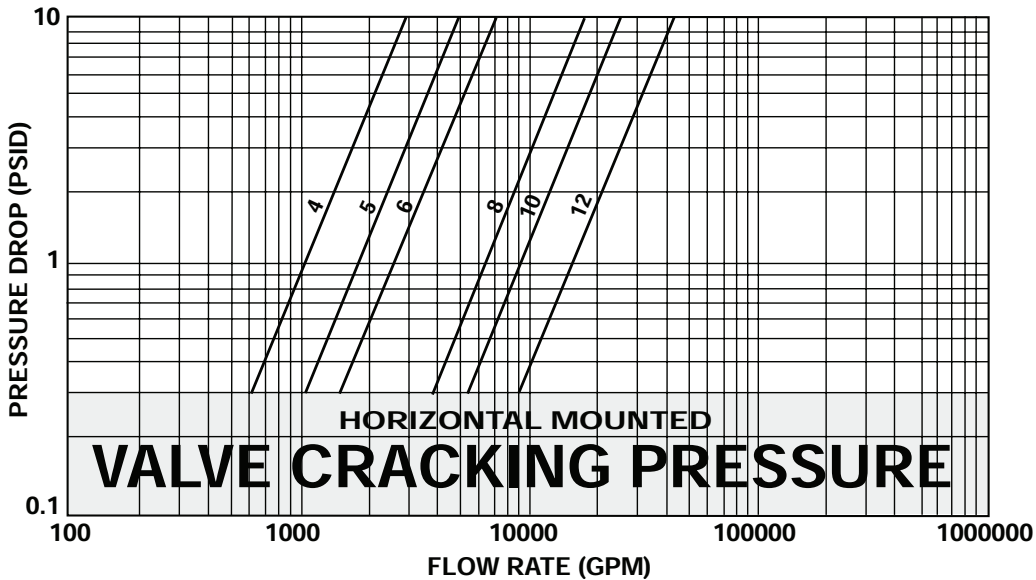
Sizes 4" - 12"



- (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 4" - 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.

C_v VALUES (US-GPM @ 1 PSID)

Valve Size (inches)	4	5	6	8	10	12
C _v	291	494	705	1795	2563	4295

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.