300WC SERIES

CAST STEEL AND STAINLESS STEEL WAFER SILENT CHECK VALVES

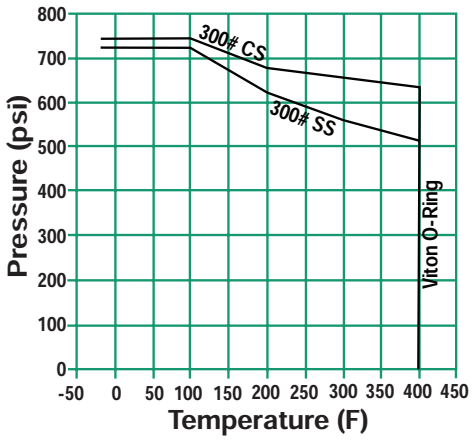
Pressures to 740 PSIG (51 barg)
Temperatures to 400ºF (204ºC)

- **ANSI rated 300 PSIG 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

- 300WCCT – Cast Steel Body, Stainless Steel Disc
- 300WCTT – Stainless Steel Body, Stainless Steel Disc

OPTIONS *(Consult factory)*

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

APPLICABLE CODES

- ASME B16.34
- API 598

300WC Series Ordering Code

Inlet Size				Dash	Model							Seat	Dash	Spring
0	3	0	0	-	3	0	0	W	C	C	T	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 - 2½"
0300 - 3"
0400 - 4"
0500 - 5"
0600 - 6"

Dash - Position 5

Model - Position 6 - 12
300WCCT - Cast Steel Body, Stainless Steel Disc
300WCTT - Stainless Steel Body, Stainless Steel Disc

Seat - Position 13
M - Metal

Dash - Position 14

Spring - Position 15
T - Stainless Steel

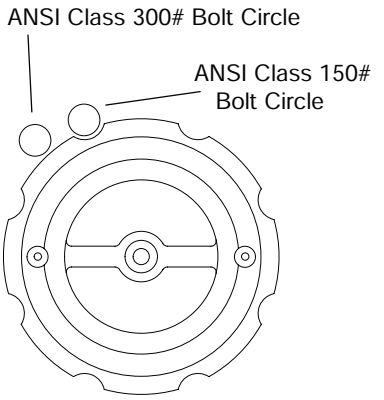
300WC SERIES
CAST STEEL AND STAINLESS STEEL WAFER SILENT CHECK VALVES

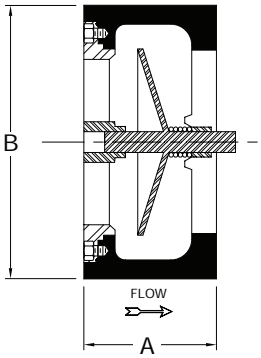
SPECIFICATION

Check Valve shall be single disc design with Cast Steel or Stainless Steel wafer body style meeting ASME B16.34. The check valve shall have a SS seat and disc and be center guided from both ends. The check valve shall be ANSI 300 PSIG rated. The spring shall be 316SS. The check valve shall be SSI 300WC Cast Steel or Stainless Steel Series.

MATERIALS OF CONSTRUCTION

Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8
Discs	A351-CF8	A351-CF8
Seat	A351-CF8	A351-CF8
Spring	316SS	316SS
O-Ring	Viton	Viton





Connections: 2" to 6"
Wafer Flanged RF*

* Sizes 2"-6" are dual rated for 150# and 300# applications and fit between both flanges.

Seats: 2" to 6" Stainless Steel

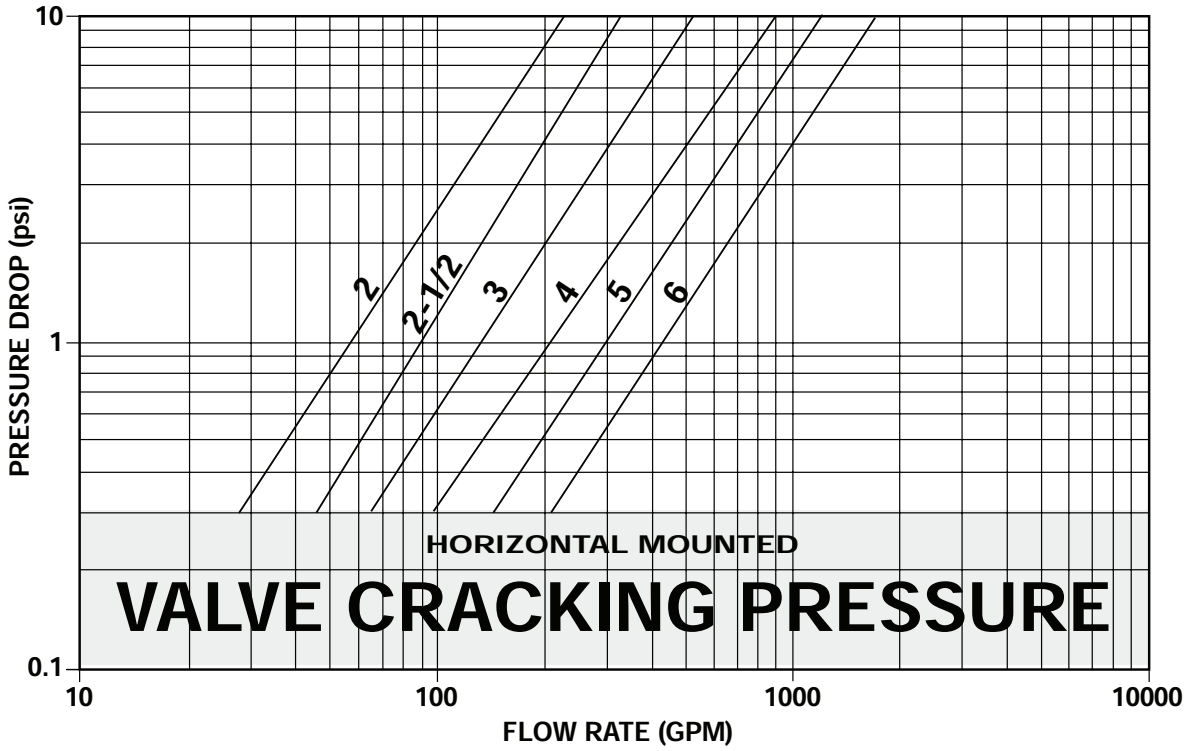
Cracking Pressure:
Horizontal Mounting - .3 psid
Vertical Mounting - .75 to 1.25 psid

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

Size		A	B *	Stud Selection QTY	Stud Selection Dia	Length	Weight
2 (50)	150	2 5/8 (67)	4 1/8 (105)	4	5/8 (16)	6 1/4 (159)	5 (2.3)
	300	2 5/8 (67)	4 3/8 (111)	8	5/8 (16)	6 1/2 (165)	5 (2.3)
2 1/2 (65)	150	2 7/8 (73)	4 7/8 (124)	4	5/8 (16)	6 3/4 (171)	7 (3.2)
	300	2 7/8 (73)	5 1/8 (130)	8	3/4 (19)	7 1/4 (184)	7 (3.2)
3 (80)	150	3 1/8 (79)	5 7/8 (137)	4	5/8 (16)	7 (178)	11 (5.0)
	300	3 1/8 (79)	5 7/8 (149)	8	3/4 (19)	7 3/4 (197)	11 (5.0)
4 (100)	150	4 (102)	6 7/8 (175)	8	5/8 (16)	8 (2.3)	20 (9.1)
	300	4 (102)	7 1/8 (181)	8	3/4 (19)	9 (229)	20 (9.1)
5 (125)	150	4 5/8 (117)	7 3/4 (197)	8	3/4 (19)	8.5 (216)	34 (15.4)
	300	4 5/8 (117)	8 1/2 (216)	8	3/4 (19)	9 3/4 (247)	34 (15.4)
6 (150)	150	5 9/16 (141)	8 3/4 (222)	8	3/4 (19)	10 (254)	42 (19.1)
	300	5 9/16 (141)	9 7/8 (251)	12	3/4 (19)	10 3/4 (273)	42 (19.1)

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

300WC SERIES
WAFER SILENT CHECK VALVE
PRESSURE DROP VS FLOW RATE
(Sizes 2" - 6")



(1) Pressure drop curves are based on water flow.
(2) Valve cracking pressure is equal to or less then 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 installion (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
Min Cv (@ .3 PSID)	51	84	119	179	265	383
Cv (@ 1 PSID)	58	90	134	210	300	430
Max Cv (@ 10 PSID)	73	106	168	285	391	548