

125WT SERIES CAST IRON DOUBLE DOOR CHECK VALVES

PRESSURES TO 200 PSIG (13.8 BARG)
TEMPERATURES TO 250°F (121°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 125 rated Check Valves
- Wafer body style fits between FF or RF flanges
- Teflon thrust washers
- Resilient Buna-N seats
- Seat design lifts then swings discs to minimize seat wear
- Independent springs optimizes valve plate closing rates while minimizing spring stress
- Lifting lug tap on all valves 6" and larger

MODELS

- 125WTIB - Cast Iron Body, Bronze Disc, Buna Seat
- 125WTIT - Cast Iron Body, Stainless Steel Disc, Buna Seat

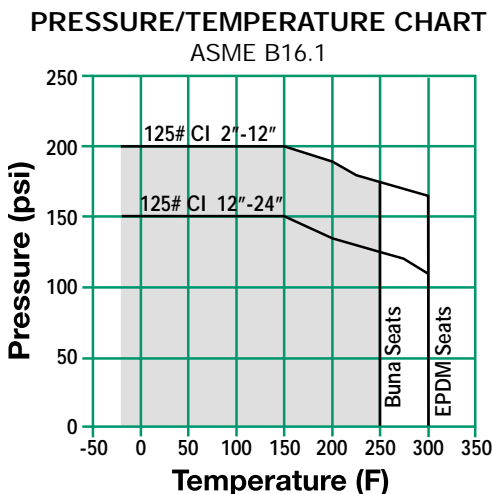
OPTIONS

- EPDM Seats
- Other Spring Material

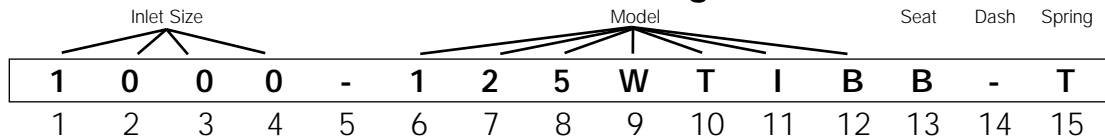
APPLICABLE CODES

- ASME Sec VIII and B16.1 Bodies
- API 598
- FM approved 30246911 (2"-10" only)

Canadian Registration - OE10274.5C



125WT Series Ordering Code



Inlet Size - Position 1 - 4	
0200 - 2"	1000 - 10"
0250 - 2½"	1200 - 12"
0300 - 3"	1400 - 14"
0400 - 4"	1600 - 16"
0500 - 5"	1800 - 18"
0600 - 6"	2000 - 20"
0800 - 8"	2400 - 24"

Dash - Position 5
Model - Position 6 - 12
125WTIB - CI Body, Bz Disc
125WTIT - CI Body, SS Disc
Seat - Position 13
B - Buna-N
Dash - Position 14
Spring - Position 15
T - SS



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SPECIFICATION

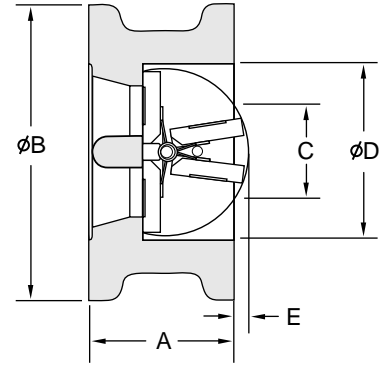
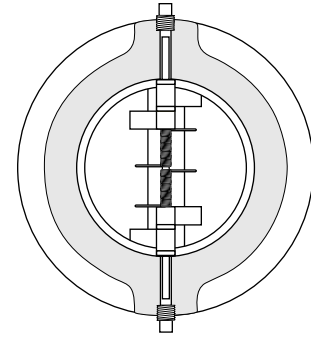
Check Valve shall be dual disc design with Cast Iron wafer body style designed to ASME B16.1 and/or ASME Sec. VIII. The check valve shall have an integral cast bumper and Buna-N resilient seat with bronze or SS discs. The check valve shall be ASME Class 125 rated. The spring shall be 316SS. The check valve shall be SSI 125WT Cast Iron Series.

MATERIALS OF CONSTRUCTION

Body A126-B Cast Iron
Discs Al/Bz B148 C954 or 316SS A351-CF8M
Seat Buna-N
Spring 316SS

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	B ¹	C ¹	D	E	STUD SELECTION			Weight
						Qty.	Dia.	Length	
2 (50)	2½ (54)	4½ (105)	2 (51)	2½ (60)	1/8 (3)	4	5/8 (16)	5½ (140)	3 (1.4)
2.5 (65)	2½ (54)	4½ (124)	2½ (64)	2½ (73)	1/2 (13)	4	5/8 (16)	6 (152)	5 (2.3)
3 (80)	2¾ (57)	5½ (137)	3 (76)	3½ (89)	5/8 (16)	4	5/8 (16)	6¼ (159)	8 (3.6)
4 (100)	2½ (64)	6½ (175)	4 (102)	4½ (114)	1 (25)	8	5/8 (16)	6¼ (159)	13 (5.9)
5 (125)	2¾ (70)	7½ (197)	5 (127)	5½ (140)	1¼ (32)	8	3/4 (19)	7 (184)	16 (7.3)
6 (150)	3 (76)	8½ (222)	6 (152)	6½ (168)	1½ (41)	8	3/4 (19)	8 (203)	20 (9.8)
8 (200)	3¾ (95)	11 (279)	8 (203)	8½ (219)	2½ (60)	8	3/4 (19)	9½ (241)	37 (16.8)
10 (250)	4¼ (108)	13½ (340)	10 (254)	10¾ (273)	3 (76)	12	7/8 (22)	10½ (267)	57 (25.9)
12 (300)	5½ (143)	16½ (410)	12 (305)	12¾ (324)	3½ (99)	12	7/8 (22)	12¼ (311)	93 (42.2)
14 (350)	7¼ (184)	17½ (451)	12½ (318)	14 (356)	4 (102)	12	1 (25)	13 (330)	205 (93.1)
16 (400)	7½ (191)	20¼ (514)	15 (381)	16 (406)	5¼ (133)	16	1 (25)	13½ (343)	271 (123.0)
18 (450)	8 (203)	21½ (549)	17 (432)	18 (457)	6 (152)	16	1½ (29)	14½ (368)	310 (140.7)
20 (500)	8½ (213)	23½ (606)	19 (483)	20 (508)	6½ (175)	20	1½ (29)	15¼ (387)	377 (171.2)
24 (600)	8¾ (222)	28¼ (718)	22¼ (578)	24 (610)	8¼ (210)	20	1¼ (32)	16¼ (413)	551 (250.2)

Connections: 2" to 24"
FF Wafer Flanged

Seats: 2" to 24"
Buna-N All

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

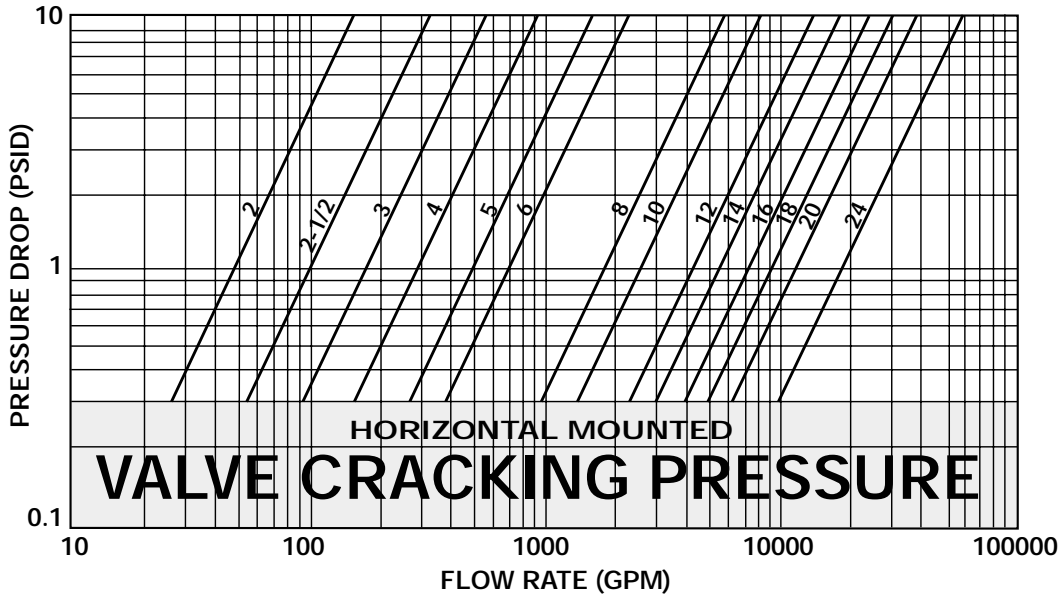
* Add the "B" dimensions and the diameter of the stud to achieve the ANSI B16.1 bolt hole circle diameter.

1. Minimum bore diameter of companion flanges

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PRESSURE DROP - LIQUIDS

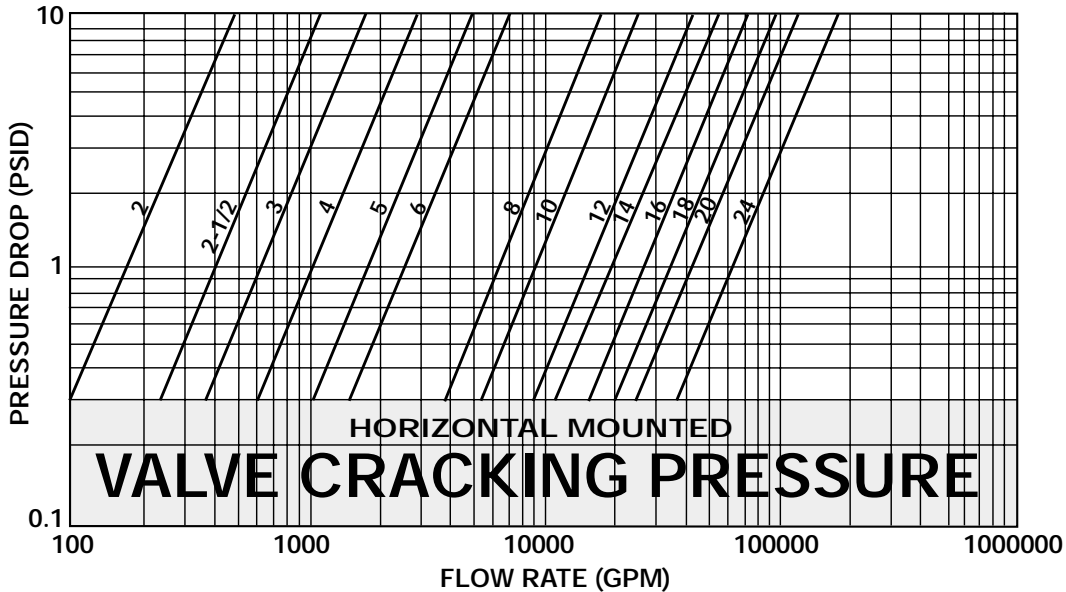
Sizes 2" - 24"



- (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 2" - 24"



- (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_v VALUES (US-GPM @ 1 PSID)

Valve Size (inches)	2	2½	3	4	5	6	8	10	12	14	16	18	20	24
C _v	60	100	170	340	520	850	1600	2400	3800	4400	5800	7500	9800	15000

