

DOUBLE DOOR CHECK VALVE

DESIGN FEATURES

MINIMAL SEAT WEAR

The Series WT double door check valve was designed to eliminate the possibility of seat wear caused by friction at the heel of the double doors while maintaining low back pressure sealing capabilities. The clearance between the body, disc and hinge pin results in the discs cracking open at the

heel location first. When the valve opens the heel does not drag across the seating surface and cause wear. As the valve closes, the spring will take the toe of the disc into the seating surface first, while the line back pressure will force the heels and hinge pin back to the seat to complete the seal.

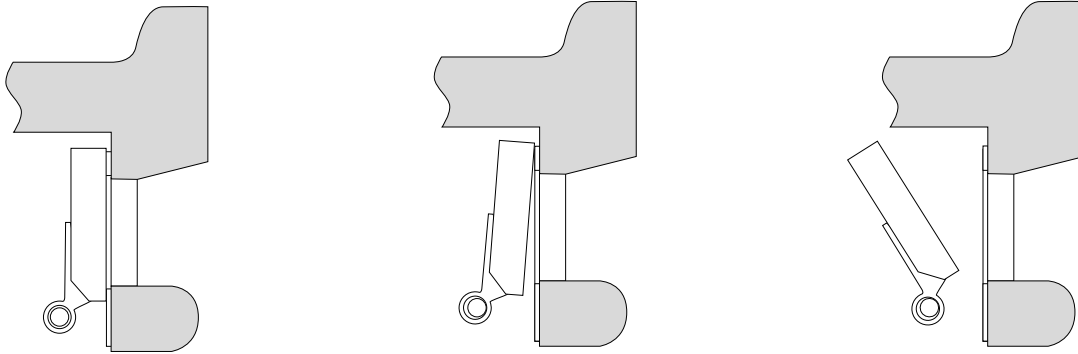


FIGURE 5

SPRING CLOSING

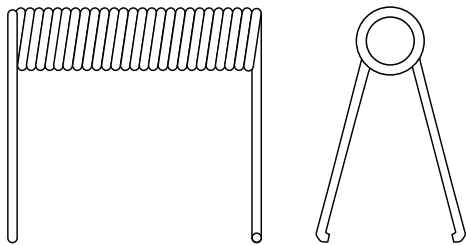
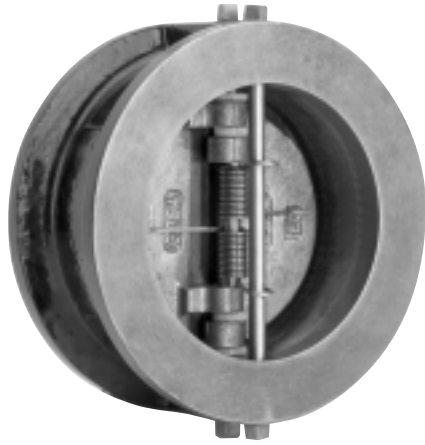


FIGURE 6

The specially designed torsion spring in the Series WT double door check valve holds the valve discs closed under no flow conditions (Consult factory for vertical downward flow). Pipeline flow (head) causes the discs to open and conversely when flow decays to a point near zero velocity, the force from the legs of the torsion spring instantly closes the valve discs for non-slam shutoff. The Series WT double door check valve comes complete with corrosion resistant stainless steel springs as standard.



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

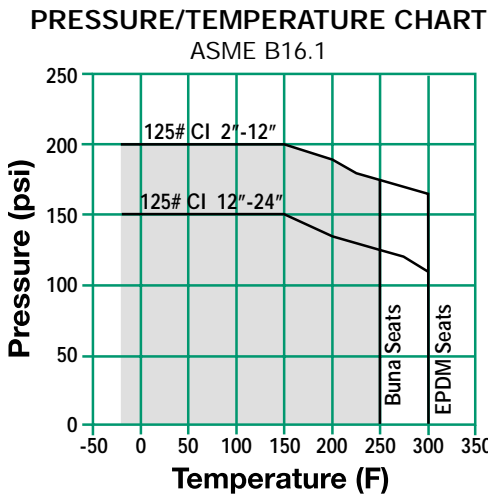
OPTIONS

- EPDM Seats
- Other Spring Material

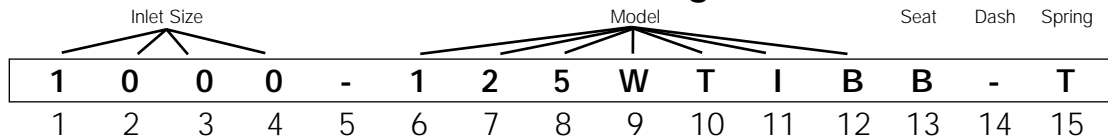
APPLICABLE CODES

- 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



125WT SERIES CAST IRON DOUBLE DOOR CHECK VALVES

SPECIFICATION

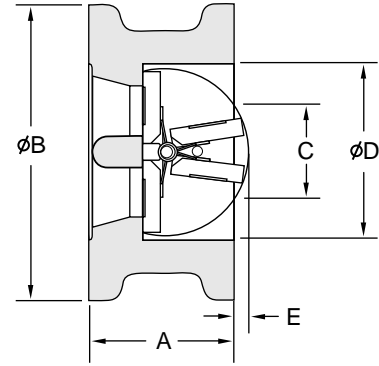
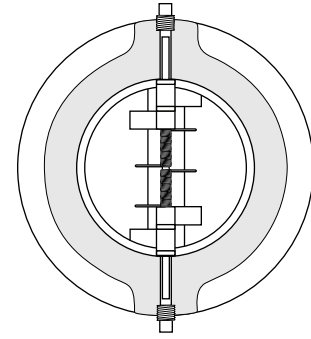
Check Valve shall be dual disc design with Cast Iron wafer body style designed to ASME B16.1 and/or ASME Sec. VIII. The check valve shall have an integral cast bumper and Buna-N resilient seat with bronze or SS discs. The check valve shall be ASME Class 125 rated. The spring shall be 316SS. The check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