

Models: 101MDT, 103MDT, 131DT

Cast Carbon Steel Standard Wafer Silent Check Valves Sizes: 1" - 10" (25 - 250mm)

Pressure/Temperature–Non-Shock		
Model	Material	Rating
101MDT	Carbon Steel	285psi @ 100° F
103MDT	Carbon Steel	740psi @ 100° F
131DT	Carbon Steel	1480psi @ 100° F

Max. temp. can be limited by seat or spring material. Consult Factory.

Not Recommended for Steam Service.

101MDT **Class 150**
103MDT **Class 300**
131DT **Class 600**



Model 101M

CAUTION

- Not for use with reciprocating compressors or pumps.
- Not for use in sewage ejector piping
- Consult factory for other specific service conditions.

Typical Service

- Designed for liquids and gases where flow reversal can cause surge and water hammer.
- Used extensively in pump suction and discharge

Features

- Spring closes the disc before flow reversal, preventing surge and water hammer
- Mating surfaces of the disc and seat are hand lapped for best possible sealing.
- Disc is fully guided at top and bottom to insure alignment and sealing at any installation angle.
- Disc begins to open at .5psi.
- Disc opens 1/3" per inch of line size, greater than similar competitive products, for enhanced flow.
- Bodies are designed to accommodate 110% flow of equivalent pipe size.

Construction

- Wafer design for light weight and space saving.
- 302SS springs are standard. Many variations in material and weight are available on specification, consult factory.
- Designed to fit within ANSI bolt circles.
- Full ANSI Class 150, 300 or 600 rating
- Variety of trim and seat materials are available
 - See introductory pages of the Silent Check Valves section of the Mueller Steam Specialty Engineering binder for the Standard Materials and How To Order Instructions.

Installation

- Can be installed horizontally, vertically or at any angle. Consult factory for downward vertical flow applications.
- Good piping practice recommends installing a distance of 5 to 10 pipe diameters from elbows, pumps, or others turbulence-creating devices.
- Mueller Steam Specialty strongly recommends the installation of a strainer ahead of the pump to ensure protection of both the pump and the valve from foreign particles.

Ordering Information

- All pertinent information relating to the operating conditions for which the valve is intended should be supplied. These include operating pressure, temperature, flow rates, velocity, pump type, conveyance of corrosive fluids, etc.
- For certain applications such as pump suction or handling of volatile liquids, lighter or heavier springs may be required, consult factory.
- Barring specific information, standard springs and materials will be supplied.

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

Materials

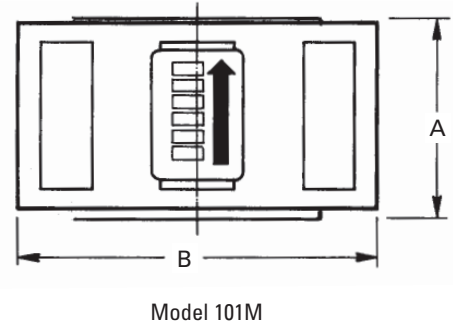
	101MDT, 103MDT, 131DT
Body	Carbon Steel ASTM A216 WCB
Trim	Stainless Steel ASTM A351 CF8M
Spring	302 Stainless Steel, ASTM A276

Pressure Drop

- See Technical Data Section of the Mueller Steam Specialty Engineering binder for Pressure Drop Charts and C_v values.

Dimensions and Weights

SIZE		DIMENSIONS				BOLTING		WEIGHT	
in.	mm	A		B		qty	size	lbs.	kgs.
		in.	mm	in.	mm				
101MDT									
1	25	2½	64	4⅝	117	4	½ x 5	10	4.5
1¼	30	2½	64	4⅝	117	4	½ x 5	13	5.9
1½	40	3	76	5	127	4	½ x 6	15	6
2	50	3	76	6	152	4	⅝ x 6	20	9
2½	65	3¾	95	7	178	4	⅝ x 7	25	11
3	80	4	102	7½	191	4	⅝ x 7¼	28	12
4	100	5	127	9	229	8	¾ x 8¾	38	17
5	125	6	152	10	254	8	¾ x 10	53	24
6	150	7	178	11	279	8	¾ x 11	70	31
8	200	8¾	222	13½	343	8	¾ x 13	114	51
10	250	10	254	16	406	12	7⁄8 x 14¾	178	80
103MDT									
1	25	2½	64	5¼	133	4	⅝ x 5¾	12	5.4
1¼	30	2½	64	5¼	133	4	⅝ x 5¾	16	7.2
1½	40	3	76	6⅞	156	4	¾ x 6¾	19	8
2	50	3	76	6½	165	8	¾ x 6¾	25	11
2½	65	3¾	95	7½	191	8	¾ x 7¾	29	13
3	80	4	102	8¼	210	8	¾ x 8¼	34	15
4	100	5	127	10	254	8	¾ x 9½	54	24
5	125	6	152	11	279	8	¾ x 10¾	75	34
6	150	7	178	12½	318	12	¾ x 12	94	42
8	200	8¾	222	15	381	12	7⁄8 x 14½	150	68
10	250	10	254	17½	446	16	1 x 16½	226	102
131DT									
1	25	2⅞	73	5¼	133	4	⅝ x 6¼	13	5.9
1¼	30	2⅞	73	5¼	133	4	⅝ x 6½	17	7.7
1½	40	3⅞	85	6⅞	156	4	¾ x 7⅞	20	9
2	50	3⅞	85	6½	165	8	⅝ x 7⅞	27	12
2½	65	4⅞	105	7½	191	8	¾ x 8⅝	31	14
3	80	4⅞	121	8¼	210	8	¾ x 9⅞	37	16



Apply For Certified Drawings.

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A Watts Water Technologies Company

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