

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Cast Stainless Steel Standard Wafer Silent Check Valves

Models: 101MHT, Class 150,
103MHT, Class 300,
131HT, Class 600

Sizes: 1"– 10" (25 – 250mm)

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.



Model 101M

Pressure/Temperature–Non-Shock

Model	Material	Rating
101MHT	Stainless Steel	275psi @ 100°F
103MHT	Stainless Steel	720psi @ 100°F
131HT	Stainless Steel	1440psi @ 100°F

Max. temp. can be limited by seat or spring material. Consult Factory.
Not Recommended for Steam Service.

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.

CAUTION

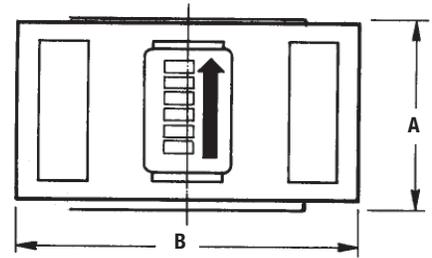
- Not for use with reciprocating compressors or pumps.
- Not for use in sewage ejector piping.
- Consult factory for other specific service conditions.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

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.



Dimensions and Weights

SIZE		DIMENSIONS				WEIGHT			
in.	mm	A		B		BOLTING			
		in.	mm	in.	mm	qty	size	lbs.	kgs.
101MHT									
1	25	2½	64	4⅝	117	4	½x5	10	4.5
1¼	30	2½	64	4⅝	117	4	½x5	13	5.9
1½	40	3	76	5	127	4	½x6	15	6
2	50	3	76	6	152	4	⅝x6	20	9
2½	65	3¾	95	7	178	4	⅝x7	25	11
3	80	4	102	7½	191	4	⅝x7¼	28	12
4	100	5	127	9	229	8	⅝x8¾	38	17
5	125	6	152	10	254	8	¾x10	53	24
6	150	7	178	11	279	8	¾x11	70	31
8	200	8¾	222	13½	343	8	¾x13	114	51
10	250	10	254	16	406	12	⅞x14¾	178	80
103MHT									
1	25	2½	64	5¼	133	4	⅝x5¾	12	5.4
1¼	30	2½	64	5¼	133	4	⅝x5¾	16	7.2
1½	40	3	76	6⅞	156	4	¾x6¾	19	8
2	50	3	76	6½	165	8	⅝x6¾	25	11
2½	65	3¾	95	7½	191	8	¾x7¾	29	13
3	80	4	102	8¼	210	8	¾x8¼	34	15
4	100	5	127	10	254	8	¾x9½	54	24
5	125	6	152	11	279	8	¾x10¾	75	34
6	150	7	178	12½	318	12	¾x12	94	42
8	200	8¾	222	15	381	12	⅞x14½	150	68
10	250	10	254	17½	446	16	1x16½	226	102
131HT									
1	25	2	73	5¼	133	4	⅝x6¼	13	5.9
1¼	30	2	73	5¼	133	4	⅝x6½	17	7.7
1½	40	3	85	6⅞	156	4	¾x7⅞	20	9
2	50	3	85	6½	165	8	⅝x7⅞	27	12
2½	65	4	105	7½	191	8	¾x8⅝	31	14
3	80	4	121	8¼	210	8	¾x9⅞	37	16

Apply For Certified Drawings.

Limited Warranty: Mueller Steam Specialty warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge. This shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Any implied warranties that are imposed by law are limited in duration to one year.

Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights.



A WATTS Brand

ES-MS-101MHT_103MHT_131HT 2030

Models: 101M

Materials

101MHT, 103MHT, 131HT	
Body	Stainless Steel ASTM A351 CF8M
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.

USA: T: (800) 334-6259 • F: (800) 421-6772 • MuellerSteam.com

Latin America: T: (52) 55-4122-0138 • MuellerSteam.com

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