Models: 105MHT, 109MHT, 113HT, 117HT

Cast Stainless Steel Globe Body Silent Check Valves

Sizes: 2" - 30" (50 - 750mm)

Pressure/Temperature-Non-Shock							
Model 105MHT	Material Stainless Steel	Rating 275psi @ 100° F					
109MHT	Stainless Steel	720psi @ 100° F					
113HT	Stainless Steel	1440psi @ 100° F					
117HT	Stainless Steel	3600psi @ 100° F					

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

Not Recommended for Steam Service.

105MHT	Class 150
109MHT	Class 300
113HT	Class 600
117HT	Class 1500



Model 105M

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

- Globe body design for greatest flow capacity in a silent check valve.
- Integrally cast flanges for ease of installation, Class 150, 300, 600, and 1500 patterns.
- 302SS springs are standard. Many variations in material and weight are available on specification, consult factory.
- · 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.
 - Stainless Steel guide pins and bushings.

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	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative



Materials

	105MHT, 109MHT, 113HT, 117HT				
Body	Stainless Steel ASTM A351 CF8M				
Trim	Stainless Steel ASTM A351 CF8M				
Spring	302 Stainless Steel, ASTM A276				

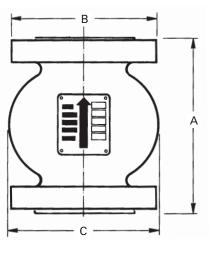
Also available in 304 Stainless Steel ASTM A351 CF8 Pickling and Passivation available on request, consult factory.

Pressure Drop

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

Dimensions and Weights

SIZ	ZE .		DIMENSIONS					WEIGHT	
				_	3				
in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
105MHT		01/	450		450	45./	447		
2	50	61/4	159	6	152	45%	117	20	9
21/2	65	7	178	7	178	53/4	146	26	11
3	80	71/2	191	7 ½	191	6%	168	32	14
4	100	81/2	216	9	229	85%	219	52	23
5	125	91/2	241	10	254	9%	251	65	29
6	150	10½	267	11	279	111//8	283	84	38
8	200	12	305	13½	343	14%	371	156	70
10	250	14	356	16	406	17 ¹ / ₁₆	449	250	113
12	300	18	457	19	483	211/4	540	400	181
14	350	19½	495	21	533	24	610	580	263
16	400	21	533	23½	597	26%	670	850	386
18	450	221/2	572	25	635	30	762	1100	500
20	500	24	610	27 ½	699	32½	826	1450	659
24	600	24	610	32	813	361/4	921	_	
30	750	30	762	38¾	984	421/2	1080	_	_
109MHT									
2	50	6 ¹ 1/ ₁₆	170	61/2	165	_	_	24	10
2 ½	65	7 9⁄16	192	71/2	191	_	_	31	14
3	80	81/4	210	81/4	210	_	_	44	20
4	100	91/8	231	10	254	_	_	74	33
5	125	10%	264	11	279	_	_	105	47
6	150	11%	289	12 ½	318	_	_	134	60
8	200	13	330	15	381	_	_	230	104
10	250	15¾	391	17 ½	445	_	_	344	156
12	300	19½	495	20½	520	_	_	520	236
14	350	21	533	23	584	_	_	725	329
16	400	225/8	575	25 ½	648	_	_	1000	454
18	450	241//8	613	28	711	_	_	1350	613
20	500	25%	651	30½	775	_	_	1775	806
113HT									
2	50	63/4	171	6½	165		_	28	12
21/2	65	7 %16	192	71/2	190	_	_	37	16
3	80	81/4	210	81/4	210	_	_	50	22
4	100	91/2	241	10¾	273	_	_	104	47
5	125	103/4	273	13	330	_	_	175	79
6	150	113/4	298	14	356	_	_	216	98
8	200	13%	340	16½	419	_	_	344	156
10	250	17	432	20	508	_	_	536	243



Model 105M

Apply For Certified Drawings.

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