

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

Cast Stainless Steel Globe Body Silent Check Valves Sizes: 2" – 30" (50 – 750mm)

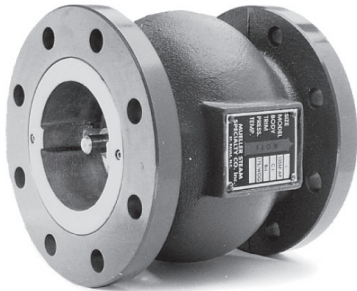
Pressure/Temperature–Non-Shock

Model	Material	Rating
105MHT	Stainless Steel	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.

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

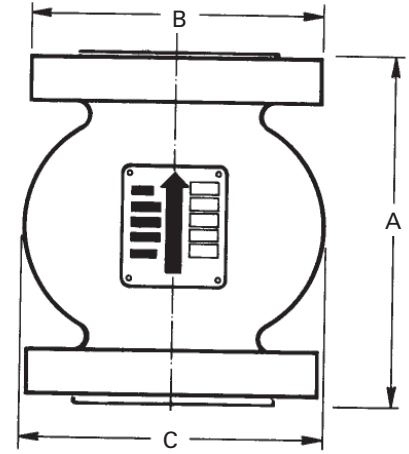
Pickling and Passivation available on request, consult factory.

Pressure Drop

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

Dimensions and Weights

SIZE		DIMENSIONS						WEIGHT	
in.	mm	A		B		C		lbs.	kgs.
		in.	mm	in.	mm	in.	mm		
105MHT									
2	50	6¼	159	6	152	4⅝	117	20	9
2½	65	7	178	7	178	5¾	146	26	11
3	80	7½	191	7½	191	6⅝	168	32	14
4	100	8½	216	9	229	8⅝	219	52	23
5	125	9½	241	10	254	9⅞	251	65	29
6	150	10½	267	11	279	11⅞	283	84	38
8	200	12	305	13½	343	14⅝	371	156	70
10	250	14	356	16	406	17⅞	449	250	113
12	300	18	457	19	483	21¼	540	400	181
14	350	19½	495	21	533	24	610	580	263
16	400	21	533	23½	597	26⅝	670	850	386
18	450	22½	572	25	635	30	762	1100	500
20	500	24	610	27½	699	32½	826	1450	659
24	600	24	610	32	813	36¼	921	–	–
30	750	30	762	38¾	984	42½	1080	–	–
109MHT									
2	50	6⅞	170	6½	165	–	–	24	10
2½	65	7⅞	192	7½	191	–	–	31	14
3	80	8¼	210	8¼	210	–	–	44	20
4	100	9⅞	231	10	254	–	–	74	33
5	125	10⅞	264	11	279	–	–	105	47
6	150	11⅞	289	12½	318	–	–	134	60
8	200	13	330	15	381	–	–	230	104
10	250	15⅞	391	17½	445	–	–	344	156
12	300	19½	495	20½	520	–	–	520	236
14	350	21	533	23	584	–	–	725	329
16	400	22⅝	575	25½	648	–	–	1000	454
18	450	24⅞	613	28	711	–	–	1350	613
20	500	25⅝	651	30½	775	–	–	1775	806
113HT									
2	50	6¾	171	6½	165	–	–	28	12
2½	65	7⅞	192	7½	190	–	–	37	16
3	80	8¼	210	8¼	210	–	–	50	22
4	100	9½	241	10¾	273	–	–	104	47
5	125	10¾	273	13	330	–	–	175	79
6	150	11¾	298	14	356	–	–	216	98
8	200	13⅞	340	16½	419	–	–	344	156
10	250	17	432	20	508	–	–	536	243



Model 105M

Apply For Certified Drawings.

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