Models: 105MBT, 109MBT

LEAD FREE

Pressure/Temperature–Non-ShockModelMaterialRating105MBTAl-Brz225psi @ 150° F109MBTAl-Brz500psi @ 150° F

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

105MBT 109MBT Class 150 Class 300



Model 105M,109M

NOTICE

- Not for use with reciprocating compressors or pumps.
- · Not for use in sewage ejector piping.
- · Not Recommended for Steam Service.
- 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.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Cast Aluminum Bronze Globe Body Silent Check Valves

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

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 and 300 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.
 - Silicon Bronze guide pins and bushings supplied with Bronze trim
 - Stainless Steel guide pins and bushings supplied with Stainless Steel trim.

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

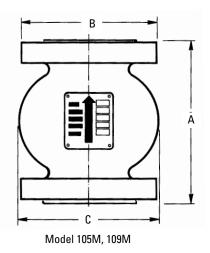
	105MBP, 109MBP				
Body	Aluminum Bronze ASTM B148				
Trim	316 Stainless Steel				
Spring	302 Stainless Steel, ASTM A276				

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					WEIGHT		
		Α		В		C			
in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
105MBT									
2	50	61/4	159	<u>6</u>	152	45%	117	22	10
2 ½	65	7	178	7	178	5½	140	29	13
3	80	7 ½	191	7 ½	191	61/4	159	36	16
4	100	81/2	216	9	229	85%	219	58	26
5	125	9½	241	10	254	10	254	72	32
6	150	10½	267	11	279	1111//8	282	93	42
8	200	12	305	13½	343	14%	371	172	78
10	250	14	356	16	406	17%	441	275	125
12	300	18	457	19	483	21¾	552	440	200
14	350	19½	495	21	533	24	610	638	290
16	400	21	533	231/2	597	26%	670	935	424
18	450	221/2	572	25	635	29%	752	1210	550
20	500	24	610	271/2	698	32¾	832	1600	727
24	600	24	610	32	813	37	940	_	_
30	750	_	_	_	_	_	_	_	_
109MBT									
2	50	611/16	170	6½	165	45%	117	28	12
21/2	65	7 %16	192	7 ½	191	5%	143	34	15
3	80	81/4	210	81/4	209	61/4	159	40	18
4	100	91//8	232	10	254	85/8	219	68	30
5	125	103/8	264	11	279	10	254	92	41
6	150	11%	289	12½	318	11%	289	128	58
8	200	13	330	15	381	141/2	368	210	95
10	250	15¾	391	17½	445	171//8	435	335	152
12	300	19½	495	20½	521	211/4	540	530	240
14	350	21	533	23	584	23%	594	810	368
16	400	225/8	575	25 ¹ / ₂	678	251//8	657	934	424
18	450	241/8	613	28	711	30	762	1500	681
20	500	25%	651	30 ¹ / ₂	775	331/4	844	1754	797
24	600	_	_	_	_	_	_	_	_
30	750	_	_	_	_	_	_	_	_



Apply For Certified Drawings.

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