Models: 105MBP, 109MBP

Cast Bronze Globe Body Silent Check Valves Sizes: 2" - 30" (50 - 750mm)

Pressure/Temperature–Non-ShockModelMaterialRating105MBPBronze225psi @ 150° F109MBPBronze500psi @ 150° F

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

Not Recommended for Steam Service.

105MBP 109MBP

Class 150 Class 300



Model 105M,109M

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 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	Bronze ASTM B62 (85-5-5-5)				
Trim	Bronze ASTM B62 (85-5-5-5)				
Spring	302 Stainless Steel, ASTM A276				

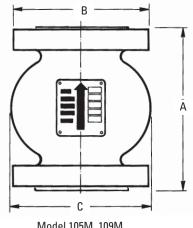
Also available with Stainless Steel Trim and other seat materials Also available in "M" metal (ASTM B61)

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	7F			DIMEN	SIUNS			WEI	СНТ	
SIZE		Α		B		С		WEIGHT		
in.	mm	in.	- mm	in.	mm	in.	mm	lbs.	kgs.	
105MBP										
2	50	61/4	159	<u>6</u>	152	45/8	117	22	10	
21/2	65	7	178	7	178	5½	140	29	13	
3	80	7½	191	7 ½	191	61/4	159	36	16	
4	100	81/2	216	9	229	85/8	219	58	26	
5	125	91/2	241	10	254	10	254	72	32	
6	150	10½	267	11	279	111//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	213/4	552	440	200	
14	350	19½	495	21	533	24	610	638	290	
16	400	21	533	23½	597	26%	670	935	424	
18	450	221/2	572	25	635	29%	752	1210	550	
20	500	24	610	27½	698	32¾	832	1600	727	
24	600	24	610	32	813	37	940	_	_	
30	750	_	_	_	_	_	_	_	_	
109MBP										
2	50	611/16	170	61/2	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	10¾	264	11	279	10	254	92	41	
6	150	11%	289	12 ½	318	11%	289	128	58	
8	200	13	330	15	381	141/2	368	210	95	
10	250	15%	391	17 ½	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	22 ⁵ /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	_	_	_	_	_	_	_	_	



Model 105M, 109M

Apply For Certified Drawings.

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