

# Mueller Steam Specialty

Models: 105MAP, 105MAT, 107MAP, 107MAT

## Cast Iron Globe Body Silent Check Valves

WORKING PRESSURES - NON-SHOCK			WORKING PRESSURES - NON-SHOCK						
105MAP	Steam		WOG		107MAP	Steam		WOG	
	2"-12"	Not Recommended	200 PSI @ 150°F (13.8 bar @ 66°C)			2"-12"	Not Recommended	500 PSI @ 150°F (34.5 bar @ 66°C)	
	14"-30"	Not Recommended	150 PSI @ 150°F (10.3 bar @ 66°C)			14"-24"	Not Recommended	300 PSI @ 150°F (20.7 bar @ 66°C)	

\* Max. temp. can be limited by gasket material and spring material. Consult factory.  
100% Hydrostatically Tested.

**105MAP**    **Class 125**  
**105MAT**

**107MAP**    **Class 250**  
**107MAT**



### SERVICE RECOMMENDATIONS

These valves are designed for liquid or gas service and offer many obvious advantages when compared with conventional swing check valves. For installation in pump suction or discharge piping.

### FEATURES

The spring automatically closes disc at zero flow before flow reversal occurs. This prevents surge and water hammer. Completely guided disc-both top and bottom. Minimum open area through the valve equal to 110% of the area of corresponding pipe size. High lift disc - all sizes feature discs which lift 1/3" per one inch of pipe size. The disc guide design in these valves prevents the disc cocking out of position, regardless of the installation angle. Parts are replaceable in the field without special tools.

### INSTALLATION

Equally effective installed horizontally or vertically. Consult factory for vertical flow downward. No special tools required. Bolts and nuts for all sizes and types of valves available from stock. We strongly suggest the installation of a strainer in the piping located ahead of the pump. This will ensure protection for both the pump and the valve.

### CONSTRUCTION

The 105MAP and 107MAP have cast iron bodies, bronze disc and seat and silicon bronze guide pins and bushings. 105MAT and 107MAT have cast iron bodies, 316SS stainless still disc and seat and stainless steel guide pins and bushings.

### ORDERING INFORMATION

We require all of the pertinent information relating to the operating conditions for which the valves are intended. Operating pressure, temperature, flow rates and/or velocity and the type of pump used in the installation. If corrosive fluids are involved, we should be advised. For certain applications, such as pump suction and volatile liquid handling, our valves require springs heavier or lighter than those furnished as standard. In the absence of complete information, we reserve the right to furnish standard springs.

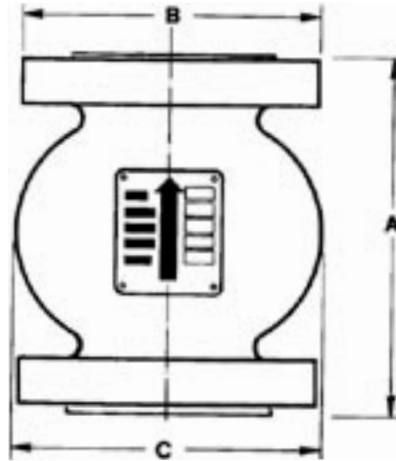
**PRESSURE DROP:** See page H-7 for pressure drop charts.

**MATERIALS:**

Body	Cast Iron ASTM A126 Grade B
Trim	Bronze ASTM B62 (type 85-5-5-5) 316 Stainless Steel ASTM A351 Gr. CF8M
Spring	Stainless Steel

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## Dimensions and Weights



<b>SIZE</b>		<b>in</b>	<b>2</b>	<b>2-1/2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>24</b>	<b>30</b>	
		<b>mm</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>	<b>400</b>	<b>500</b>	<b>550</b>	<b>600</b>	<b>750</b>	
<b>A</b>	105MAP/AT	in	6-1/4	7	7-1/2	8-1/2	9-1/2	10-1/2	13-1/2	16-1/4	20-1/4	22-3/4	24-3/4	22-1/2	24	24	30	
		mm	159	178	191	216	241	267	343	413	514	578	629	572	610	610	762	
	107MAP/AT	in	6-3/4	7-5/8	8-1/4	9-1/8	10-3/8	11-3/8	14	17	20-7/8	23-3/8	25-5/8	24-1/8	25-5/8	24-7/8		
		mm	171	194	210	232	264	289	356	432	530	594	651	613	651	631		
<b>B</b>	105MAP/AT	in	6	7	7-1/2	9	10	11	13-1/2	16	19	21	23-1/2	25	27-1/2	32	38-3/4	
		mm	152	178	191	229	254	279	343	406	483	533	597	635	698	813	984	
	107MAP/AT	in	6-1/2	7-1/2	8-1/4	10	11	12-1/2	15	17-1/2	20-1/2	23	25-1/2	28	30-1/2	36		
		mm	165	191	209	254	279	318	381	445	521	584	678	711	775	914		
<b>C</b>	105MAP/AT	in	4-5/8	5-1/2	6-1/4	8-5/8	10	11-1/8	14-5/8	17-3/8	21-3/4	24	26-3/8	29-5/8	32-3/4	37	42-1/2	
		mm	117	140	159	219	254	282	371	441	552	610	670	752	832	940	1080	
	107MAP/AT	in	4-7/8	5-3/4	6-5/8	8-7/8	10-3/8	11-1/2	15	17-7/8	22-1/8	24-1/4	26-7/8	30	33-1/4	37		
		mm	124	146	168.3	225	263	292	381	454	561	616	683	762	844	940		
<b>WEIGHT</b>																		
	105MAP/AT	lb	20	24	32	56	74	95	178	265	454	598	840	892	1140	1540		
		kg	9	10	14	25	33	43	80	120	206	271	381	405	518	700		
	107MAP/AT	lb	24	28	46	76	134	144	242	367	672	725	1000	1238	1775	2500		
		kg	10	12	20	34	60	65	110	166	305	329	454	562	806	1136		

Approximate Dimensions and Weights. Apply For Certified Drawings.