

Mueller Steam Specialty

Models: 101MAP, 103MAP, 101MAT, 103MAT

Cast Iron Standard Wafer Silent Check Valves

101MAP **Class 125**
101MAT

103MAP **Class 250**
103MAT

101MAP	WORKING PRESSURES - NON-SHOCK	
	<u>Steam</u> Not Recommended	<u>WOG</u> 200 PSI @ 150°F (13.8 bar @ 66°C)

101MAT	WORKING PRESSURES - NON-SHOCK	
	<u>Steam</u> Not Recommended	<u>WOG</u> 200 PSI @ 150°F (13.8 bar @ 66°C)

103MAP	WORKING PRESSURES - NON-SHOCK	
	<u>Steam</u> Not Recommended	<u>WOG</u> 500 PSI @ 150°F (34.5 bar @ 66°C)

103MAT	WORKING PRESSURES - NON-SHOCK	
	<u>Steam</u> Not Recommended	<u>WOG</u> 500 PSI @ 150°F (34.5 bar @ 66°C)

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

SERVICE RECOMMENDATIONS

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

FEATURES

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 101MAP and 103MAP have cast iron bodies, bronze disc and seat and silicon bronze guide pins and bushings. The 101MAT and 103MAT have cast iron bodies and stainless steel trim.

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-6 for pressure drop charts.

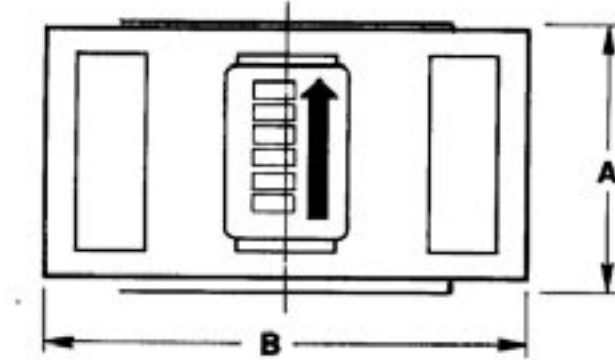
MATERIALS:

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



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Dimensions and Weights



SIZE		in	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10
		mm	25	30	40	50	65	80	100	125	150	200	250
A	101MAP/AT	in	2-1/2	2-1/2	3	3	3-3/4	4	5	6	7	8-3/4	10
		mm	64	64	76	76	95	102	127	152	178	222	254
	103MAP/AT	in	2-1/2	2-1/2	3	3	3-3/4	4	5	6	7	8-3/4	10
		mm	64	64	76	76	95	102	127	152	178	222	254
B	101MAP/AT	in	4-5/8	4-5/8	5	6	7	7-1/2	9	10	11	13-1/2	16
		mm	118	118	127	152	178	191	229	254	279	343	406
	103MAP/AT	in	5-1/4	5-1/4	6-1/8	6-1/2	7-1/2	8-1/4	10	11	12-1/2	15	17-1/2
		mm	133	133	156	165	191	209	254	279	318	381	445
BOLTING	SIZE	101MAP/AT	1/2x5	1/2x5	1/2x6	5/8x6	5/8x7	5/8x7-1/4	5/8x8-3/4	3/4x10	3/4x11	3/4x13	7/8x14-3/4
		103MAP/AT	5/8x5-3/4	5/8x5-3/4	3/4x6-3/4	5/8x6-3/4	3/4x7-3/4	3/4x8-1/4	3/4x9-1/2	3/4x10-3/4	3/4x12	7/8x14-1/2	1x16-1/2
	QTY	101MAP/AT	4	4	4	4	4	4	8	8	8	8	12
		103MAP/AT	4	4	4	8	8	8	8	8	12	12	16
WEIGHT													
	101MAP/AT	lb	7.5	8	9.75	13.5	25	26.5	38	50	72	120	186
		kg	3.4	3.6	4	6.1	11	12	17	22	32	54	84
	103MAP/AT	lb	12	16	14	25	25	36	51	75	87	150	226
		kg	5	7	6	11	11	16	23	34	39	68	102

Approximate Dimensions and Weights. Apply For Certified Drawings.