



Standard model MMA-X with field configurable valve, top mount

Model MMF-50-PV 1-1/2" scale, with metering valve, knob.



Model MMF-10 with 1-1/2" scale, no valve.

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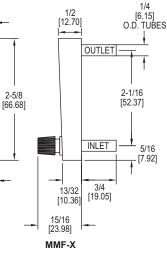
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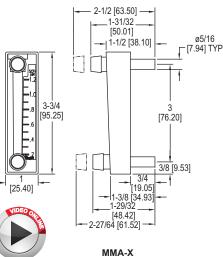
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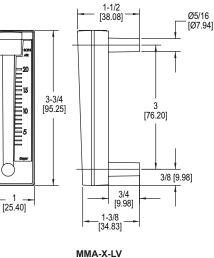
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Model MMF-10-TMV with top-mounted valvefor vacuum service. Use screwdriver to adjust.







The Series MM Mini-Master® Flowmeters consists of two series of flowmeters suitable for both gas and liquid applications with advanced features at a low cost. The Series MMA is a 2" (51 mm) scale flowmeter that is user configurable with or without non-removable top or bottom front mounted metering valves. It is constructed from transparent nylon material providing high chemical resistance and is easily disassembled via the provided key for cleaning or reconfiguration.

The Series MMF is a 1-1/2" (38 mm) scale compact flowmeter ideal for measuring small volume air. It features bezel type mounting that can be quickly installed from the front of the instrument panel.

### FEATURES/BENEFITS

- · Low installation costs with easy mounting
- · Long operation life with durable construction
- · Precision molding enables high repeatability
- · White back on the flow tube allows for better visibility of the float increasing reading accuracy
- · Side printed scale graduations allows for instantaneous flow reading saving time
- Compact bodies require minimal panel space freeing valuable space

## APPLICATIONS

- · Medical equipment
- Air samplers
- Gas analyzers
- · Pollution monitors · Chemical injectors
- · Cabinet purging

#### SPECIFICATIONS MMA SPECIFICATIONS

Service: Compatible gases and liquids.

Wetted Materials: Body: Nylon 12; O-rings: Buna-N (optional materials available); Float: Black glass, K monel, stainless steel, tungsten carbide.

Temperature Limit: 130°F (54°C).

Pressure Limit: 100 psi (6.9 bar) with compression fitting. 50 psi (3.4 bar) with tubing clamp.

Accuracy: ±4% FS.

Process Connection: 5/16" OD for push on rubber or plastic tubing with provided spring tubing clamp. Connect to rigid tubing with double compression fitting. Weight: 1 oz (28.35 g).

Agency Approvals: Meets the technical requirements of EU Directive 2011/65/EU (RoHS II),

#### MMF SPECIFICATIONS

Service: Compatible gases and liquids. Wetted Materials: Body: Styrene acrylonitrile; Float: SS, black glass, nylon; Valve: Polyurethane.

Temperature Limit: 125°F (51°C).

Pressure Limit: 50 psi (3.4 bar). Valve option: 10 psi (0.6 bar).

Accuracy: ±10% FS.

Process Connection: 1/4" OD for push on rubber or plastic tubing. Connect to rigid tubing with compression fittings.

Weight: 0.5 oz (14.17 g).

Agency Approvals: Meets the technical requirements of EU Directive 2011/65/EU (RoHS II).

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AIR

# **Dwyer** SERIES MM MINI-MASTER® FLOWMETERS 2" or 1-1/2" Scale, Configurable Valve Option

MODEL CHART		
Model	Description	
MMA-X	Standard MMA	
MMA-X-LV	MMA without configurable valve	
How To Order: MMA-Range NoOptional Valve		
Example: MMA -4-LV		
(Series MMA with .5-5 SCFH air range without configurable valve)		

## ACCESSORIES - MMA

ModelDescriptionA-3275/16" union

RANGE CHART - MMA				
Range No.	SCFH Air	Range No.	LPM Air	
3	.5 to 2.5	20	.2 to 1.2	
4	.5 to 5	21	.25 to 2.5	
5	1 to 10	22	.5 to 5	
6	2 to 20	23	1 to 10	
7	5 to 50	24	2.5 to 25	
8	10 to 100	25	5 to 50	
9	20 to 200	26	10 to 100	
10	30 to 300	27	15 to 150	
Range No.	GPH Water	Range No.	CC/Min. Water	
30	1 to 8	35	5 to 50	
31	1 to 16	36	10 to 150	
32	4 to 40	37	20 to 200	
33	5 to 60	38	50 to 500	
Range No.	LPM Water			
40	.1 to 1.1			
41	.25 to 2.5			
42	.3 to 3.5			

MODEL CHART				
Model	Description			
MMF-X	Standard MMF			
MMF-X-PV	MMF with bottom mount valve			
MMF-X-TMV	MMF with top mount valve			
How To Order: MMF-Range NoValve				
Example: MMF-1-PV				
(Series MMF with .1-1 SCFH air range with valve)				

#### ACCESSORIES - MMF Model Description

A-328 1/14" union

RANGE CHART - MMF			
Range No.	Range (SCFH Air)		
1	.1 to 1		
2	.2 to 2		
10	1 to 10		
50	5 to 50		
100	10 to 100		

OPTIONS		
To order add suffix:	Description	
-NIST	NIST traceable calibration certificate	



MMA-X tubing connections secured by clamp. "Standup" mounting clip shown.

Spring retainers on connection tubes secure panel mounted MMA-X. Compression union, P/N A-327 shown.



Model MMF mounts easily from front of panel. Drill two 9/32" or 5/16" dia. holes in panel on 2-1/16" centers. Insert mounting connector spuds. From rear, slide on the two spring retainers (furnished) and push on rubber or plastic tubing.



Model MMF connections. Connector at top, installed in panel, has retainer and flexible tubing in place. Connector at bottom shows alternative connection with metal or rigid plastic tubing, using a double compression nylon tube union (as Dwyer Part No. A-328). Flowmeters, Variable Area & In-Line