



**Lead Free\***

## MODEL MVA-LF MASTER MIXING VALVE (34ALF Series)

Job Name:	Contractor:
Job Location:	P.O. Number:
Engineer:	Representative:
Tag:	Wholesale Distributor:

### DESCRIPTION

The Apollo® MVA-LF (34ALF Series) master thermostatic mixing valves are designed for “point of source” ASSE 1017 approved applications. They provide hot water temperature control of potable and non-potable hot water distribution systems. The valves are built using “Lead Free\*” materials and can be configured with several design features depending on your application.

### FEATURES

- **Lead Free\*** AB 1953 Certified
- Superior thermostatic element technology for optimum performance, reliability and accuracy
- Integral inlet strainers and check valves to protect against cross-flow and foreign particles in the piping system
- Thermostat over-temperature protection
- Tamper resistant maximum temperature calibration option
- Fingertip temperature control
- Instantaneous cold or hot water supply failure shut-off protection
- Multiple connection options to fit your specific needs

### MATERIAL

Body:	C89836 <b>Lead Free*</b> Bronze
Shuttle:	Noryl® Modified PPO (Polyphenylene Oxide)
Sensor:	Copper/Wax filled
O-ring:	Chloramine Resistant EPDM
Spring:	ASTM A313 Stainless Steel
Cap:	ABS (Acrylonitrile Butadiene Styrene)



### APPROVALS

- **ASSE 1017** – Temperature Actuated Mixing Valve for Hot Water Distribution Systems
- **CSA B125.3** – Plumbing Supply Fittings

### PERFORMANCE RATING

Maximum working pressure	= 150 psig (1034 kPa)
Maximum working temperature	= 210°F (99°C)
Cold water inlet temperature range	= 39 – 80°F (4 – 27°C)
Hot water inlet temperature range	= 120 – 180°F (49 – 82°C)
Minimum Flowrate**	= ½ gpm (1.9 lpm)
Flowrate at 30 psid (138 kPa)	= 19 gpm (64 lpm)
Mixed water temperature range	= 85 – 140°F (30 - 60°C)
Mixed water temperature tolerance	= ± 5°F (1.7 °C)

\*\* Minimum flow when the valve is installed with recirculating water pump.

### CONFIGURATION\*\*

#### Size

☐ ½" ☐ ¾" ☐ 1"

#### Inlets

☐ Threaded ☐ Solder ☐ CPVC ☐ Pex

#### Outlet

☐ Threaded ☐ Solder ☐ CPVC ☐ Pex

\*\* Consult factory for availability of LF Model options

### OPTIONS

#### Max Temp Setting (B)

☐ Preset to 120°F maximum temperature

**\*LEAD FREE:** The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with CA AB 1953 and VT S.152. ANSI 3<sup>rd</sup> party certified and listed.

Conbraco Industries, Inc. 701 Matthews Mint Hill Rd. Matthews NC 28106 USA; [www.apollovalves.com](http://www.apollovalves.com) ; 704-841-6000

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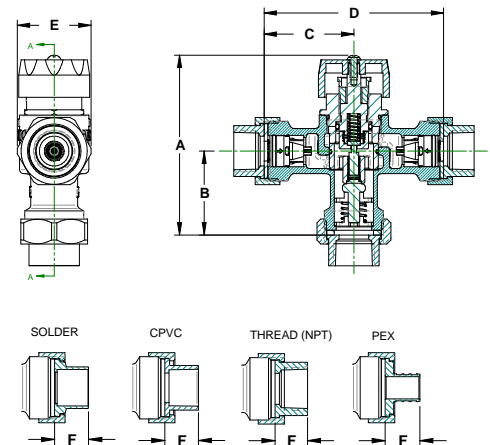
# MODEL MVA - LF

## MASTER MIXING VALVE

### (34ALF SERIES)

#### DIMENSIONS *(Other end connection combinations are available upon request)*

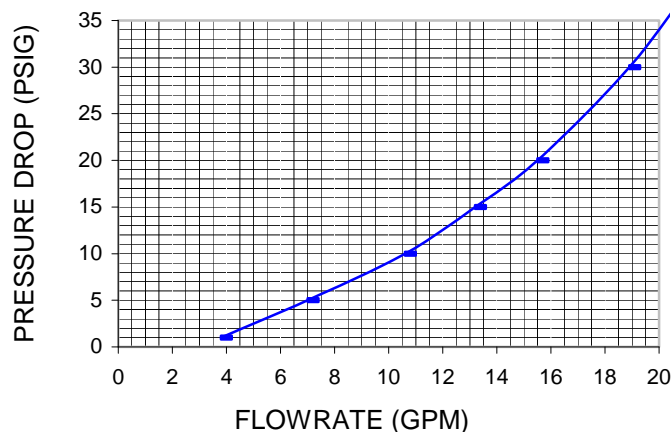
Model Number	Series Number	Connection Type	Dimensions (in.)						Unit Wt. (lbs.)
			A	B	C	D	E	F	
MVA-12-LF	34ALF213T	½" FNPT	3.73	2.11	2.28	4.56	1.87	0.73	2.75
MVA-34-LF	34ALF214T	¾" FNPT						0.77	2.84
MVA-1-LF	34ALF215T	1" FNPT					2.12	0.94	2.93
MVAS-12-LF	34ALF213S	½" SOLDER	3.73	2.11	2.28	4.56	1.87	0.81	2.54
MVAS-34-LF	34ALF214S	¾" SOLDER						0.81	2.60
MVAS-1-LF	34ALF215S	1" SOLDER					2.12	0.94	2.66
MVAC-12-LF	34ALF213C	½" CPVC	3.73	2.11	2.28	4.56	1.87	0.58	2.39
MVAC-34-LF	34ALF214C	¾" CPVC						0.80	2.42
MVAC-1-LF	34ALF215C	1" CPVC					2.12	1.09	2.45
MVAX-12-LF	34ALF213X	½" PEX	3.73	2.11	2.28	4.56	1.87	0.83	2.54
MVAX-34-LF	34ALF214X	¾" PEX						0.83	2.60
MVAX-1-LF	34ALF215X	1" PEX					2.12	1.04	2.66



#### MODEL NUMBERS

Size & Connection	Standard		120°F Adjustment Limit Stop	
	Order Number	Model Number	Order Number	Model Number
½" FNPT	34ALF213T	<b>MVA-12-LF</b>	34ALF213BT	MVAB-12-LF
¾" FNPT	34ALF214T	<b>MVA-34-LF</b>	34ALF214BT	MVAB-34-LF
1" FNPT	34ALF215T	<b>MVA-1-LF</b>	34ALF215BT	MVAB-1-LF
½" SOLDER	34ALF213S	<b>MVAS-12-LF</b>	34ALF213BS	MVABS-12-LF
¾" SOLDER	34ALF214S	<b>MVAS-34-LF</b>	34ALF214BS	MVABS-34-LF
1" SOLDER	34ALF215S	<b>MVAS-1-LF</b>	34ALF215BS	MVABS-1-LF
½" CPVC	34ALF213C	<b>MVAC-12-LF</b>	34ALF213BC	MVABC-12-LF
¾" CPVC	34ALF214C	<b>MVAC-34-LF</b>	34ALF214BC	MVABC-34-LF
1" CPVC	34ALF215C	<b>MVAC-1-LF</b>	34ALF215BC	MVABC-1-LF
½" PEX	34ALF213X	<b>MVAX-12-LF</b>	34ALF213BX	MVABX-12-LF
¾" PEX	34ALF214X	<b>MVAX-34-LF</b>	34ALF214BX	MVABX-34-LF
1" PEX	34ALF215X	<b>MVAX-1-LF</b>	34ALF215BX	MVABX-1-LF

**FLOW CURVE** Flow curve is based on the following: Cold and hot water inlet pressures at 45 psig; cold water supply temperature at 55 ±5 °F; hot water supply temperature at 140 ±5 °F, and mixed water temperature at 105 ±5 °F.



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