



Lead Free*

MODEL MVB-LF DUAL MASTER MIXING VALVE (34BLF Series)

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

DESCRIPTION

The Apollo® Model "MVB-LF" (34BLF Series) thermostatic mixing valves are designed to control and limit the volumes of cold and hot water required to deliver mixed water at a predetermined temperature either from the "point of source" or "point of use" application for single or multiple fixtures. 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
- Highest capacity device that meets ASSE 1070
- Superior thermostatic element technology for optimum reliability, dependability and accuracy
- Integral strainers and check valves provide protection against cross-flow and foreign particles
- Thermostat over-temperature protection
- Tamper resistant maximum temperature setting adjustment
- Instantaneous cold or hot water supply failure shut-off protection
- Multiple connection options to fit your specific needs
- Made in the USA

MATERIAL

Body: UNS C89836 **Lead Free*** Bronze
Shuttle: Noryl® Modified PPO (Polyphenylene Oxide)
Sensor: Brass/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
- **ASSE 1070** – Water Temperature Limiting Device
- **CSA B125.3** – Plumbing Supply Fittings

***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 3rd party certified and listed.



PERFORMANCE RATING

Maximum working pressure	= 150 psig (1034 kPa)
Maximum working temperature	= 210 °F (99 °C)
Hot water inlet temperature range	= 120 – 180 °F (49 – 82 °C)
Mixed water temperature range	= 80 – 120 °F (27 – 49 °C)
Mixed water temperature tolerance	= ±3 °F (1.7 °C)
Minimum flow rate	= 1.0 gpm (3.7 lpm)

OPTIONS (Consult factory for availability of LF model options)**

☐ ½" ☐ ¾" ☐ 1"

All Connections

☐ Threaded ☐ Solder ☐ CPVC ☐ Pex

Inlets

☐ Thread ☐ Solder ☐ CPVC ☐ Pex

Outlet

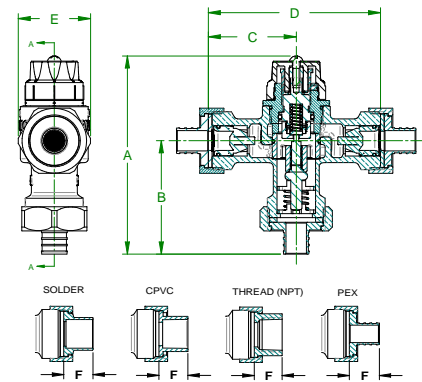
☐ Thread ☐ Solder ☐ CPVC ☐ Pex

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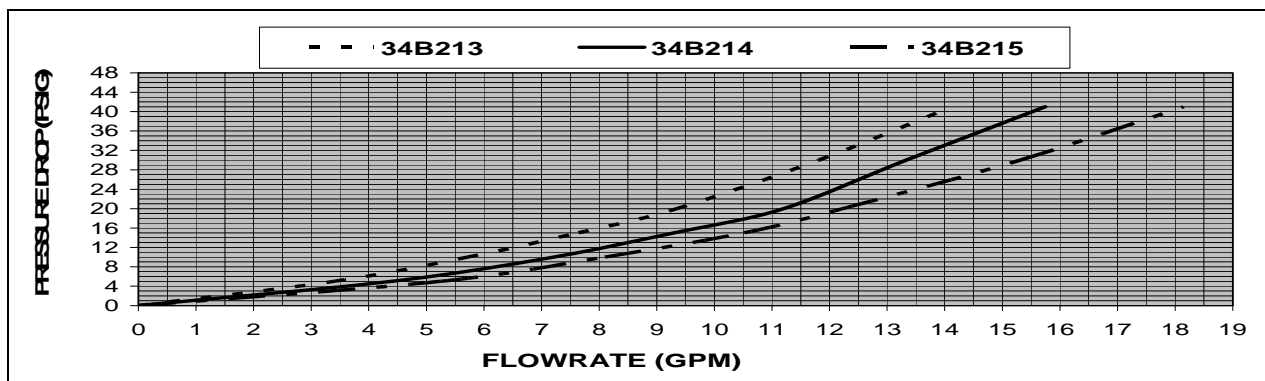
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DIMENSIONS (Other end connection combinations are available upon request)

Model Number	Series Number	Connection Type	Dimensions (in.)						Unit Wt. (lbs.)
			A	B	C	D	E	F	
MVB-12-LF	34BLF213T	½" FNPT	4.52	2.11	2.28	4.56	1.87	0.73	2.75
MVB-34-LF	34BLF214T	¾" FNPT						0.77	2.84
MVB-1-LF	34BLF215T	1" FNPT					2.12	0.94	2.93
MVBS-12-LF	34BLF213S	½" SOLDER	4.52	2.11	2.28	4.56	1.87	0.81	2.54
MVBS-34-LF	34BLF214S	¾" SOLDER						0.81	2.60
MVBS-1-LF	34BLF215S	1" SOLDER					2.12	0.94	2.66
MVBC-12-LF	34BLF213C	½" CPVC	4.52	2.11	2.28	4.56	1.87	0.58	2.39
MVBC-34-LF	34BLF214C	¾" CPVC						0.80	2.42
MVBC-1-LF	34BLF215C	1" CPVC					2.12	1.09	2.45
MVBX-12-LF	34BLF213X	½" PEX	4.52	2.11	2.28	4.56	1.87	0.83	2.54
MVBX-34-LF	34BLF214X	¾" PEX						0.83	2.60
MVBX-1-LF	34BLF215X	1" PEX					2.12	1.04	2.66



FLOW CURVES



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. FLOWRATES MAY VARY DEPENDING ON ACTUAL SYSTEM OPERATING CONDITIONS.

TYPICAL APPLICATIONS

The Apollo® Model "MVB" is ideal for supplying and maintaining tempered water to sinks, baths, showers as well as individual temperature control to tubs or lavatories in residential, commercial or institutional applications.

