

34ALF Series

Mixing Valve

LEAD FREE

SUBMITTAL SHEET

"Apollo" Flow Controls



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

DESCRIPTION

The Apollo® MVA-LF (34ALF Series) Thermostatic Master Mixing Valves are designed for ASSE 1017 "Point of Source" 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 are available with a variety of options and end connections.

FEATURES

- Superior Thermostatic Element Technology For Optimal Performance, Reliability and Accuracy
- Integral Inlet Strainers and Check Valves are Standard to Protect Against Cross-Flow and Foreign Particles in the Piping System
- Thermostat Over-Temperature Control
- Maximum Temperature Limit Option
- Fingertip Temperature Control
- Cold or Hot Water Supply Failure Shut-Off Protection
- Multiple Connection Options to Fit Your Specific Needs
- High Temperature Version For Hydronic/Radiant Heating Applications
- Lead Free Construction Certified: 0.25% Lead max
- Made in USA - ARRA compliant

OPTIONS

- (-B) Temperature Limit Stop (120° F max)
 - High Temp Range (H) Radiant Heat Application 120°F - 180°F (Not ASSE Certified)
- See 34A-H submittal sheet

APPROVALS

- ASSE 1017 - Temperature Actuated Mixing Valve for Hot Water Distribution Systems
- CSA B125.3 - Plumbing Supply Fittings
- NSF/ANSI 372 - Lead Free
- NSF/ANSI 61 - Water Quality

STANDARD MATERIALS LIST

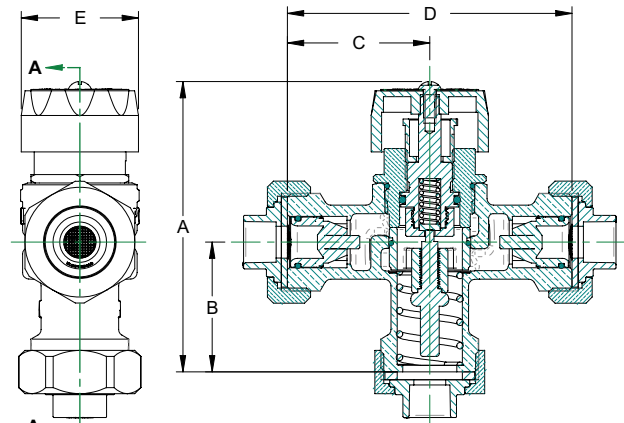
Body	C89836 Lead Free* Bronze
Shuttle	Noryl® Modified PPO
Sensor	Copper/Wax filled
O-Ring	Chloramine Resistant EPDM
Spring	ASTM A313 Stainless Steel
Cap	ABS

DIMENSIONS

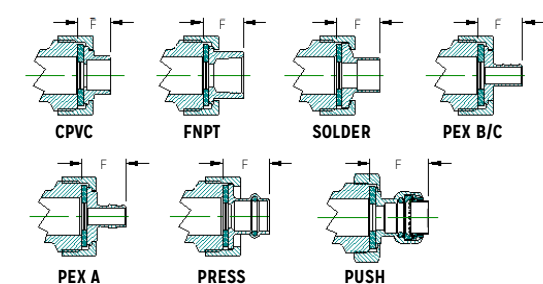
Series No.	Connection	Size (in.)	Dimensions (in.)						Unit Wt. (lb.)
			A	B	C	D	E	F	
34ALF213T	Thread - FNPT	1/2	4.52	2.11	2.28	4.56	0.95	0.95	2.75
34ALF213S	Solder		4.52	2.11	2.28	4.56	0.93	0.93	2.54
34ALF213C	CPVC		4.52	2.11	2.28	4.56	0.70	0.70	2.39
34ALF213X2	PEX A		4.52	2.11	2.28	4.56	1.20	1.20	2.54
34ALF213X	PEX B/C		4.52	2.11	2.28	4.56	1.02	1.02	2.54
34ALF213PR	Press		4.52	2.11	2.28	4.56	0.99	0.99	2.60
34ALF213P	Push	3/4	4.52	2.11	2.28	4.56	1.23	1.23	2.94
34ALF214T	Thread - FNPT		4.52	2.11	2.28	4.56	0.93	0.93	2.84
34ALF214S	Solder		4.52	2.11	2.28	4.56	0.93	0.93	2.60
34ALF214C	CPVC		4.52	2.11	2.28	4.56	0.92	0.92	2.42
34ALF214X2	PEX A		4.52	2.11	2.28	4.56	1.20	1.20	2.60
34ALF214X	PEX B/C		4.52	2.11	2.28	4.56	1.25	1.25	2.60
34ALF214PR	Press	1	4.52	2.11	2.28	4.56	1.14	1.14	2.65
34ALF214P	Push		4.52	2.11	2.28	4.56	1.78	1.78	3.08
34ALF215T	Thread - FNPT		4.52	2.11	2.28	4.56	1.06	1.06	2.93
34ALF215S	Solder		4.52	2.11	2.28	4.56	1.06	1.06	2.66
34ALF215C	CPVC		4.52	2.11	2.28	4.56	1.16	1.16	2.45
34ALF215X2	PEX A		4.52	2.11	2.28	4.56	1.17	1.17	2.66
34ALF215X	PEX B/C	1	4.52	2.11	2.28	4.56	1.55	1.55	2.66
34ALF215PR	Press		4.52	2.11	2.28	4.56	1.18	1.18	2.71
34ALF215P	Push		4.52	2.11	2.28	4.56	1.96	1.96	3.29

*PEX A (ASTM F1960) Cold Expansion PEX

** PEX B/C (ASTM F1807) Crimp PEX



TAILPIECES



*LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law III-380. ANSI 3rd party approved and listed.

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Mixing Valve

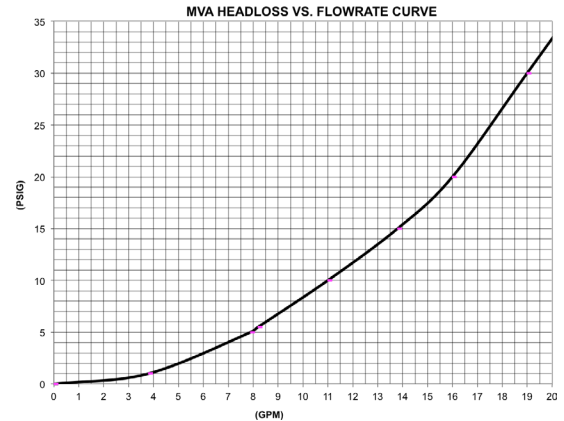
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PERFORMANCE RATING

- 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° - 200°F (49° - 82°C)
- Minimum Flow Rate: 1/2 gpm (1.9 lpm)
- Mixed Water Temp. Range - Standard: 85° - 120°F
- Mixed Water Temp. Range - High: 120° - 180°F
- Mixed Water Temperature Tolerance: ±5°F (1.7°C)
- Flow Rate at 30 psig (138 kPa): 19 gpm (64 lpm)
- Maximum Pressure Differential Between Hot & Cold: 25%



SIZE (IN.)	CONNECTION	STANDARD TEMP (85° - 140°F)		CAL. MAX. TEMP (120°F)		RADIANT HIGH TEMP (120° - 180°F)*	
		MODEL NO.	ORDER NO.	MODEL NO.	ORDER NO.	MODEL NO.	ORDER NO.
1/2"	Solder inlets x Solder outlet	MVAS12LF	34ALF213S	MVABS12LF	34ALF213BS	MVAHS12LF	34ALF213HS
	FNPT inlets x FNPT outlet	MVA12LF	34ALF213T	MVAB12LF	34ALF213BT	MVAH12LF	34ALF213HT
	CPVC inlets x CPVC outlet	MVAC12LF	34ALF213C	MVABC12LF	34ALF213BC	-	-
	PEX A inlets x PEX A outlet	MVAX212LF	34ALF213X2	MVABX212LF	34ALF213BX2	-	-
	PEX B/C inlets x PEX B/C outlet	MVAX12LF	34ALF213X	MVABX12LF	34ALF213BX	-	-
	Solder inlets x CPVC outlet	MVASC12LF	34ALF213SC	MVABSC12LF	34ALF213BSC	-	-
	FNPT inlets x CPVC outlet	MVATC12LF	34ALF213TC	MVABTC12LF	34ALF213BTC	-	-
	PEX B/C inlets x CPVC outlet	MVAXC12LF	34ALF213XC	MVABXC12LF	34ALF213BXC	-	-
	CPVC inlets x PEX B/C outlet	MVACX12LF	34ALF213CX	MVABCX12LF	34ALF213BCX	-	-
	PRESS inlets x PRESS outlet	MVAPR12LF	34ALF213PR	MVABPR12LF	34ALF213BPR	-	-
	PUSH inlets x PUSH outlet	MVAP12LF	34ALF213P	-	-	-	-
3/4"	Solder inlets x Solder outlet	MVAS34LF	34ALF214S	MVABS34LF	34ALF214BS	MVAHS34LF	34ALF214HS
	FNPT inlets x FNPT outlet	MVA34LF	34ALF214T	MVAB34LF	34ALF214BT	MVAH34LF	34ALF214HT
	CPVC inlets x CPVC outlet	MVAC34LF	34ALF214C	MVABC34LF	34ALF214BC	-	-
	PEX A inlets x PEX A outlet	MVAX234LF	34ALF214X2	MVABX234LF	34ALF214BX2	-	-
	PEX B/C inlets x PEX B/C outlet	MVAX34LF	34ALF214X	MVABX34LF	34ALF214BX	-	-
	Solder inlets x CPVC outlet	MVASC34LF	34ALF214SC	MVABSC34LF	34ALF214BSC	-	-
	FNPT inlets x CPVC outlet	MVATC34LF	34ALF214TC	MVABTC34LF	34ALF214BTC	-	-
	PEX B/C inlets x CPVC outlet	MVAXC34LF	34ALF214XC	MVABXC34LF	34ALF214BXC	-	-
	CPVC inlets x PEX B/C outlet	MVACX34LF	34ALF214CX	MVABCX34LF	34ALF214BCX	-	-
	PRESS inlets x PRESS outlet	MVAPR34LF	34ALF214PR	MVABPR34LF	34ALF214BPR	-	-
	PUSH inlets x PUSH outlet	MVAP34LF	34ALF214P	-	-	-	-
1"	Solder inlets x Solder outlet	MVAS1LF	34ALF215S	MVABS1LF	34ALF215BS	MVAHS1LF	34ALF215HS
	FNPT inlets x FNPT outlet	MVA1LF	34ALF215T	MVAB1LF	34ALF215BT	MVAH1LF	34ALF215HT
	CPVC inlets x CPVC outlet	MVAC1LF	34ALF215C	MVABC1LF	34ALF215BC	-	-
	PEX A inlets x PEX A outlets	MVAX21LF	34ALF215X2	MVABX21LF	34ALF215BX2	-	-
	PEX B/C inlets x PEX B/C outlets	MVAX1LF	34ALF215X	MVABX1LF	34ALF215BX	-	-
	Solder inlets x CPVC outlet	MVASC1LF	34ALF215SC	MVABSC1LF	34ALF215BSC	-	-
	FNPT inlets x CPVC outlet	MVATC1LF	34ALF215TC	MVABTC1LF	34ALF215BTC	-	-
	PEX B/C inlets x CPVC outlet	MVAXC1LF	34ALF215XC	MVABXC1LF	34ALF215BXC	-	-
	CPVC inlets x PEX B/C outlet	MVACX1LF	34ALF215CX	MVABCX1LF	34ALF215BCX	-	-
	PRESS inlets x PRESS outlet	MVAPR1LF	34ALF215PR	MVABPR1LF	34ALF215BPR	-	-
	PUSH inlets x PUSH outlet	MVAP1LF	34ALF215P	-	-	-	-

* High temperature models are not ASSE certified.

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