

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

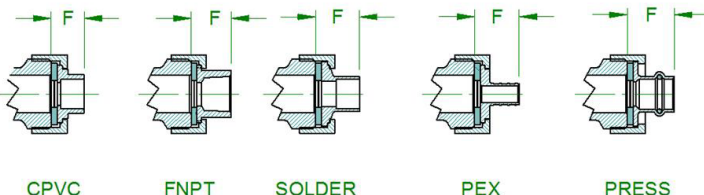
STANDARD MATERIALS LIST

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

MODEL NUMBER	SERIES NUMBER	CONNECTION TYPE	DIMENSIONS (IN.)						WEIGHT (LB.)
			A	B	C	D	E	F	
MVA-12-LF	34ALF213T	1/2" FNPT	3.73	2.11	2.28	4.56	1.87	0.73	2.75
MVA-34-LF	34ALF214T	3/4" FNPT						0.77	2.84
MVA-1-LF	34ALF215T	1" FNPT						2.12	0.94
MVAS-12-LF	34ALF213S	1/2" SOLDER	3.73	2.11	2.28	4.56	1.87	0.81	2.54
MVAS-34-LF	34ALF214S	3/4" SOLDER						0.81	2.60
MVAS-1-LF	34ALF215S	1" SOLDER						2.12	0.94
MVAC-12-LF	34ALF213C	1/2" CPVC	3.73	2.11	2.28	4.56	1.87	0.58	2.39
MVAC-34-LF	34ALF214C	3/4" CPVC						0.80	2.42
MVAC-1-LF	34ALF215C	1" CPVC						2.12	1.09
MVAX-12-LF	34ALF213X	1/2" PEX	3.73	2.11	2.28	4.56	1.87	0.83	2.54
MVAX-34-LF	34ALF214X	3/4" PEX						0.83	2.60
MVAX-1-LF	34ALF215X	1" PEX						2.12	1.09
MVAX212-LF	34ALF213X2	1/2" PEX F1960*	3.73	2.11	2.28	4.56	1.87	1.03	2.5
MVAX234-LF	34ALF214X2	3/4" PEX F1960*						1.03	2.6
MVAPR-12-LF	34ALF213PR	1/2" PRESS						1.00	2.60
MVAPR-34-LF	34ALF214PR	3/4" PRESS	3.73	2.11	2.28	4.56	1.87	1.14	2.65
MVAPR-1-LF	34ALF215PR	1" PRESS						2.12	1.15

* PEX A (ASTM F1960) Cold Expansion PEX



*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.

Customer Service (704) 841-6000
www.apolloflowcontrols.com

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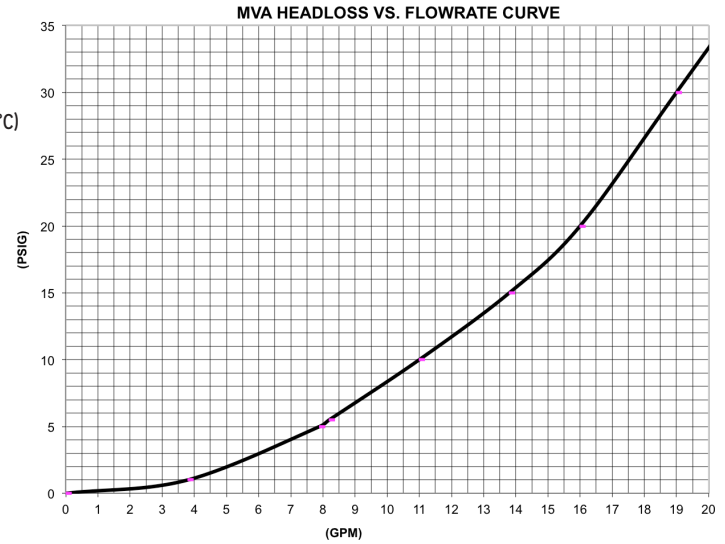
SUBMITTAL SHEET

"Apollo" Flow Controls

PERFORMANCE RATING

- Maximum Working Pressure:
- Maximum Working Temperature:
- Cold Water Inlet Temperature Range:
- Hot Water Inlet Temperature Range:
- Minimum Flow Rate:
- Mixed Water Temp. Range - Standard:
- Mixed Water Temp. Range - High:
- Mixed Water Temperature Tolerance:
- Flow Rate at 30 psig (138 kPa):
- Maximum Pressure Differential Between Hot & Cold:

150 psig (1034 kPa)
210°F (99°C)
39°-80°F (4° - 27°C)
120° - 200°F (49° - 82°C)
1/2 gpm (1.9 lpm)
85° - 120°F
120° - 180°F
±5°F (1.7°C)
19 gpm (64 lpm)
25%



SIZE (IN.)	CONNECTION	STANDARD TEMP (85° - 140°F)		CAL. MAX. TEMP (120°F)		RADIANT	
		MODEL NO.	ORDER NO.	MODEL NO.	ORDER NO.	HIGH TEMP (120° - 180°F)* 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 inlets X PEX outlet	MVAX12LF	34ALF213X	MVABX12LF	34ALF213BX		
	PEX F1960 inlets X PEX F1960 outlet**	MVAX212LF	34ALF213X2	MVABX212LF	34ALF213BX2		
	Solder inlets X CPVC outlet	MVASC12LF	34ALF213SC	MVABSC12LF	34ALF213BSC		
	FNPT inlets X CPVC outlet	MVATC12LF	34ALF213TC	MVABTC12LF	34ALF213BTC		
	PEX inlets X CPVC outlet	MVAXC12LF	34ALF213XC	MVABXC12LF	34ALF213BXC		
	CPVC inlets X PEX outlet	MVACX12LF	34ALF213CX	MVABCX12LF	34ALF213BCX		
	PRESS inlets X PRESS outlet	MVAPR12LF	34ALF213PR	MVABPR12LF	34ALF213BPR		
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 inlets X PEX outlet	MVAX34LF	34ALF214X	MVABX34LF	34ALF214BX		
	PEX F1960 inlets X PEX F1960 outlet**	MVAX234LF	34ALF214X2	MVABX234LF	34ALF214BX2		
	Solder inlets X CPVC outlet	MVASC34LF	34ALF214SC	MVABSC34LF	34ALF214BSC		
	FNPT inlets X CPVC outlet	MVATC34LF	34ALF214TC	MVABTC34LF	34ALF214BTC		
	PEX inlets X CPVC outlet	MVAXC34LF	34ALF214XC	MVABXC34LF	34ALF214BXC		
	CPVC inlets X PEX outlet	MVACX34LF	34ALF214CX	MVABCX34LF	34ALF214BCX		
	PRESS inlets X PRESS outlet	MVAPR34LF	34ALF214PR	MVABPR34LF	34ALF214BPR		
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 inlets X PEX outlet	MVAX1LF	34ALF215X	MVABX1LF	34ALF215BX		
	Solder inlets X CPVC outlet	MVASC1LF	34ALF215SC	MVABSC1LF	34ALF215BSC		
	FNPT inlets X CPVC outlet	MVATC1LF	34ALF215TC	MVABTC1LF	34ALF215BTC		
	PEX inlets X CPVC outlet	MVAXC1LF	34ALF215XC	MVABXC1LF	34ALF215BXC		
	CPVC inlets X PEX outlet	MVACX1LF	34ALF215CX	MVABCX1LF	34ALF215BCX		
	PRESS inlets X PRESS outlet	MVAPR1LF	34ALF215PR	MVABPR1LF	34ALF215BPR		

To order Repair Kits use part numbers 34A200HRK (high temp.), 34A200RK (std. temp.)

* High temperature models are not ASSE certified.

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