NEW!

MODEL MVE
EMERGENCY MIXING VALVE
(34E SERIES)

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

DESCRIPTION
Apollo® Model "MVE" Emergency Mixing Valves are designed to ensure safe and reliable delivery of tepid water to emergency eyewash / face wash fixtures. The device includes a patented temperature and flow control feature in the event of cold water, hot water and thermostatic element failures.

FEATURES
- Patented Hot and cold water supply failure protection (US Patent 6,926,205 B2)
- Tepid water temperature limit control
- Locking handle for tamper-proof protection
- Integral inlet check valves and strainers
- Superior thermostatic element technology
- Thermostatic element over-travel protection
- 100% factory tested and pre-set to 85°F (29.4°C)
- In-line accessibility and serviceability
- Corrosion, Dezincification and scale resistant materials
- **Made in the USA**

MATERIAL

Body:	ASTM B584 Bronze
Shuttle:	Noryl®
Thermostat:	Brass/Wax filled
O-ring:	Chloramine Resistant EPDM
Spring:	ASTM A313 Stainless Steel
Cap:	ABS Polymer
Module components:	Noryl®

APPROVALS
ASSE 1071-2008 – Temperature Actuated Mixing Valves for Plumbed Emergency Equipment

ANSI/ISEA Z358.1 2009– Emergency Eyewash & Shower Equipment

PERFORMANCE RATING

Maximum working pressure	= 150 psig (1034 kPa)
Hot water inlet temperature range	= 120 – 180 °F (49 – 82 °C)
Cold water inlet temperature range	= 40 – 70 °F (4.4 – 21 °C)
Tepid water temperature adjustment range	= 65 – 95 °F (18.3 – 35 °C)
Mixed water temperature tolerance	= ±5 °F (±2.8 °C)
Max. Flow rate @ 30 psi (207 kPa) differential	= 15 gpm (56.8 lpm)
Cold water bypass @ 30 psi (207 kPa) differential	= 13.5 gpm (51 lpm)

(Note: The cold water supply shall be at least 20 °F (-6.7 °C) lower than the outlet water temperature setting)

OPTIONS
Size: ☐ ½" ☐ ¾"
Inlets: ☐ FNPT ☐ Solder
Outlet: ☐ FNPT ☐ Solder
Outlet Temperature Gauge: ☐

☐ **Hot and Cold Inlet Shut-off Ball Valves:** ☐
☐ **Lead Free Construction (ANSI 3rd Party Listed): Model 34ELF**
☐ **Rough Chrome Finish**

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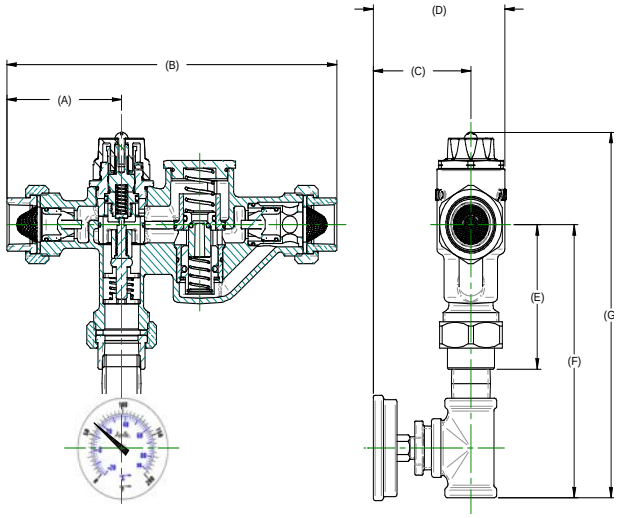
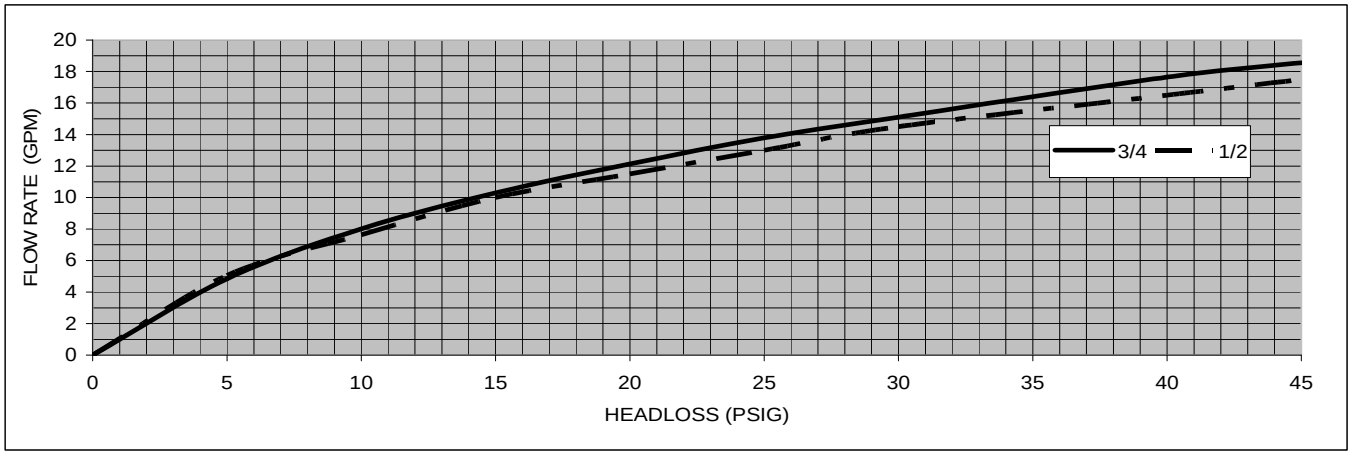
(34E SERIES)

DIMENSIONS & WEIGHTS

MODEL NO.	**MVE12G**	**MVES12G**	**MVE34G**	**MVES34G**
SERIES NO.	**34E113T**	**34E113S**	**34E114T**	**34E114S**
CONNECTION	½" FPT	½" SLDR.	¾" FPT	¾" SLDR.
A (in.)	3.09	3.22	3.09	3.10
B (in.)	8.90	9.15	8.90	8.90
C (in.)	2.66	2.66	2.67	2.67
D (in.)	3.60	3.60	3.60	3.60
E (in.)	3.45	3.45	3.45	3.45
F (in.)	5.77	5.77	6.32	6.32
G (in.)	7.83	7.83	8.39	8.39
UNIT WT. (lbs.)	3.94	3.73	5.13	5.07



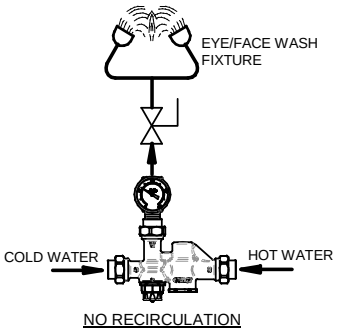
FLOW CURVES



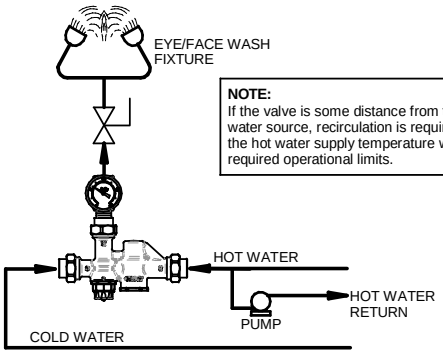
Flow curve is based on the following: Cold and hot water inlet pressures at 45 ±1.0 psig (310 ±6.9 kPa); cold water supply temperature at 60 ±5 °F (15.6 ±2.8 °C); hot water supply temperature at 140 ±3 °F (60.0 ±1.7 °C), and mixed water temperature at 85 ±2 °F (29.4 ±1.1 °C). Flow rates may vary depending on actual system operating conditions.

TYPICAL INSTALLATIONS

(Note: Piping and installation of the device must be in accordance to federal, state and local plumbing codes.)



NO RECIRCULATION



WITH HOT WATER RECIRCULATION

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