

# 'Apollo' Valves

## SUBMITTAL SHEET

### Model MVE

34E Series Emergency Mixing Valve



<b>Job Name:</b>	
<b>Job Location:</b>	
<b>Engineer:</b>	
<b>Contractor:</b>	
<b>Tag:</b>	
<b>PO Number:</b>	
<b>Representative:</b>	
<b>Wholesale Distributor:</b>	



### 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**

### 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)
  - Minimum Flow Rate: 1.5 gpm (5.6 lpm)
- (Note: The cold water supply shall be at least 20 °F (-6.7 °C) lower than the outlet water temperature setting)*

### OPTIONS

- Size: 1/2" or 3/4"
- Inlets: FNPT or Solder
- Outlet: FNPT or Solder
- Outlet Temperature Gauge
- Hot and Cold Inlet Shut-off Ball Valves
- Lead Free Construction (ANSI 3rd Party Listed) Model 34ELF - select models
- Rough Chrome Finish

### STANDARD MATERIALS LIST

Part Name	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®

Apollo Valves, Manufactured by **Conbraco Industries, Inc.**  
 701 Matthews Mint-Hill Road, Matthews, NC 28105 USA  
[www.apollovalves.com](http://www.apollovalves.com) | (704) 841-6000

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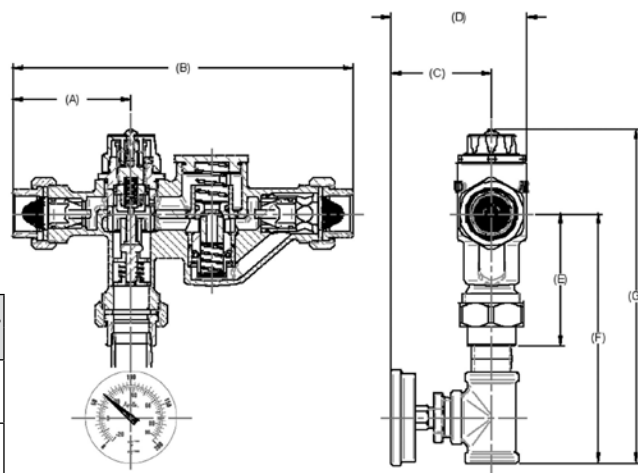
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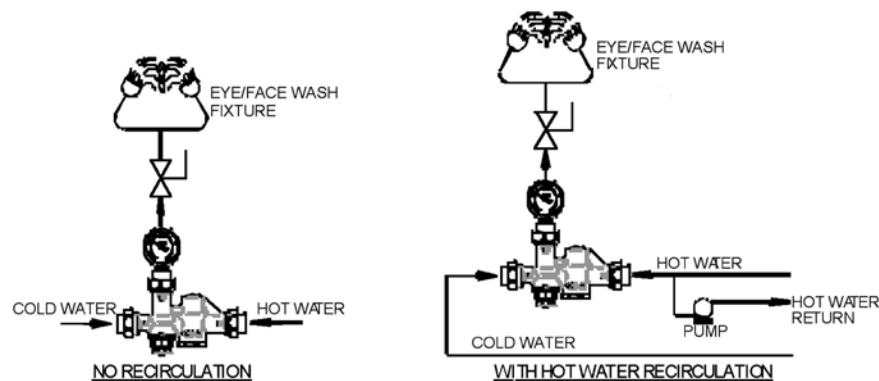
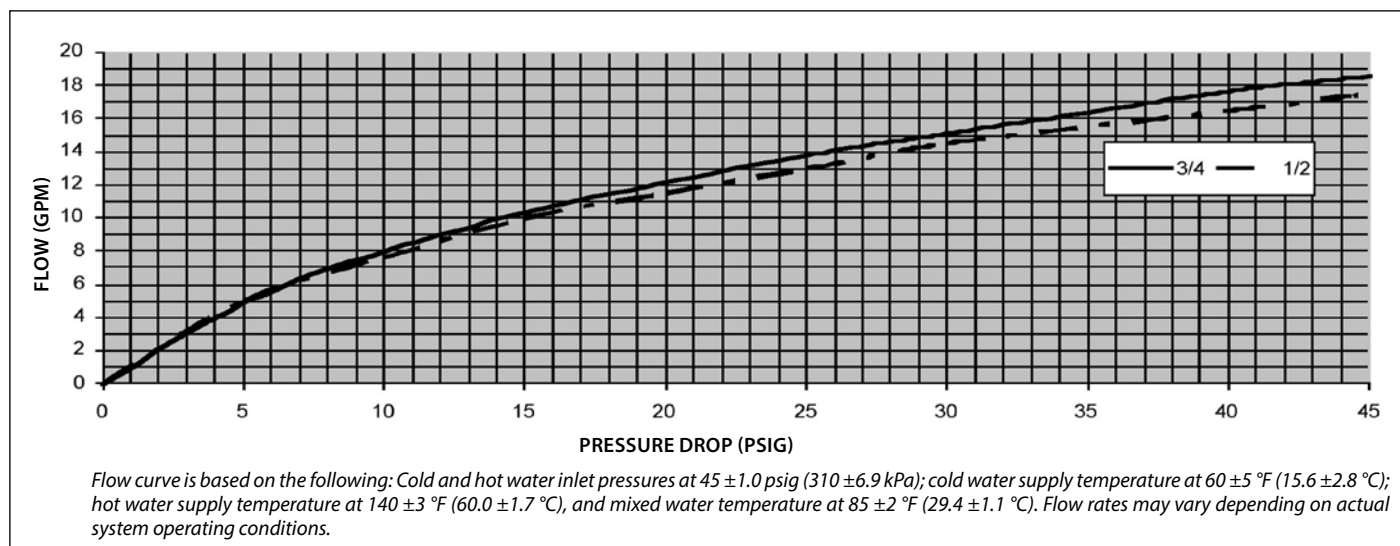
34E Series Emergency Mixing Valve

#### DIMENSIONS

Model No.	Size	Dimensions (in.)							Unit Wt.
Part No.	Connection	A	B	C	D	E	F	G	(lbs.)
MVE12G 34E113T	1/2" FPT	3.09	8.90	2.66	3.60	3.45	5.77	7.83	3.94
MVES12G 34E113S	1/2" SLDR.	3.22	9.15	2.66	3.60	3.45	5.77	7.83	3.73
MVE34G 34E114T	3/4" FPT	3.09	8.90	2.67	3.60	3.45	6.32	8.39	5.13
MVES34G 34E114S	3/4" SLDR.	3.10	8.90	2.67	3.60	3.45	6.32	8.39	5.07



#### FLOW CURVES



#### 34E TYPICAL INSTALLATIONS:

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

**Note:** If the valve is some distance from the hot water source, recirculation is required to keep the hot water supply temperature within the required operational limits

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