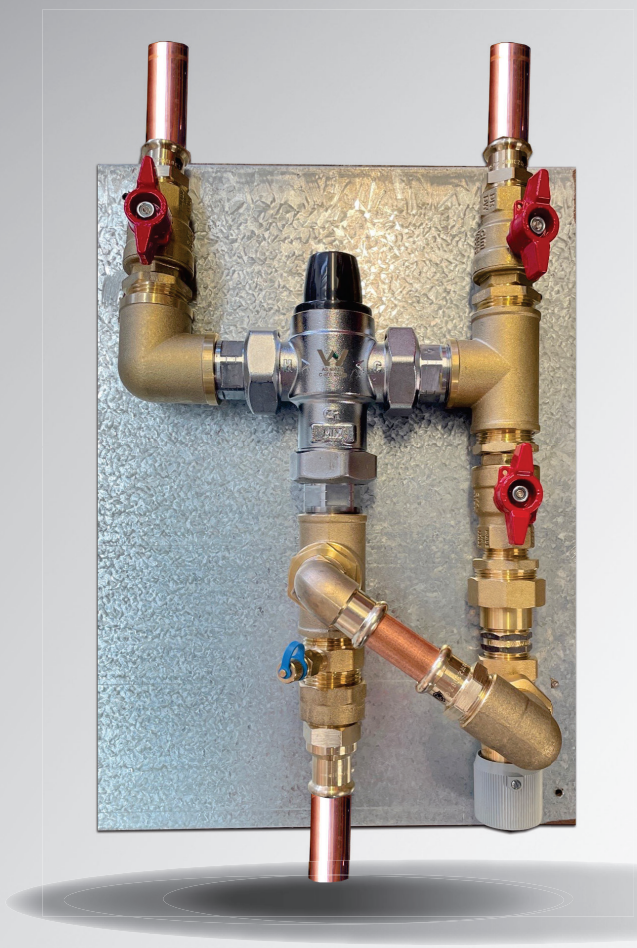
EYE OR EYE/FACEWASH EMERGENCY MIXING SYSTEM

All Valve INDUSTRIES



MIXING VALVE SYSTEM FOR EMERGENCY EYE/FACEWASH EQUIPMENT

FEATURES

- Utilises a 25mm Watermark approved high flow mixing valve.
- Valves will shut off supply upon failure of cold water supply.
- Provides tepid warm water up to 50 l/min at 50kPa pressure loss.
- Cold water will bypass the mixing valves upon failure of hot water supply.
- Supplied pre-plumbed on a galvanised steel plate with 20mm copper tails.
- Set temperature can be locked using the locking nut on the adjustment spindle.

PRODUCT DETAILS

The emergency mixing valve system incorporates a Caleffi mixing valve which is Watermark approved to AS4032.2.

This emergency mixing system has been specifically designed to meet the requirements of both AS 4775 - Emergency eyewash and shower equipment, as well as ANSI Z 358.1.

When installed with a certified eyewash or eye/face wash to AS4775, the minimum warm water flow rate shall be 11.4 l/pm. Most brands of eyewash and eye/face wash units are much higher than this and so the EMF50 has been designed to accomodate even the most demanding flow rates for eye/face wash units in the market.

The cold water bypass design allows for cold water only to flow through the assembly in the event of heated water supply failure to the mixing valves. This feature has been integrated to ensure the functionality and integrity of the emergency shower is maintained.

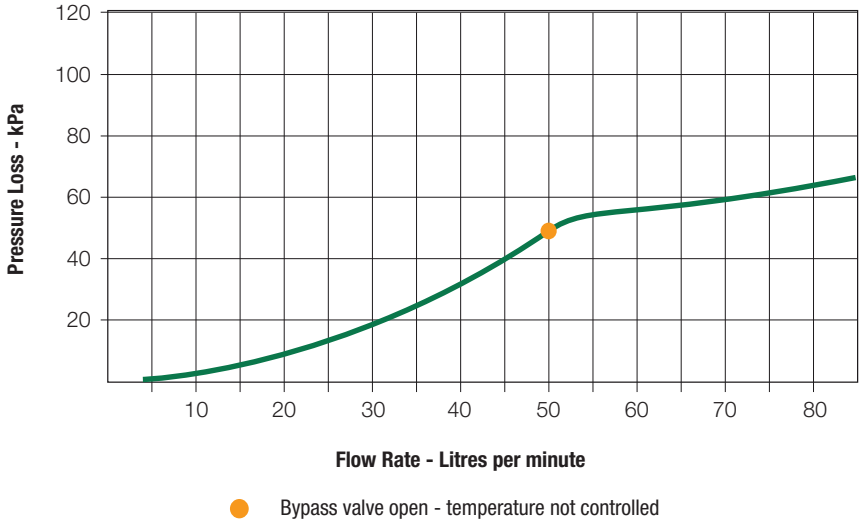
The valve is adjustable from 20 - 50°C, however, it is the responsibility of the specifier to determine the correct water temperature to each safety fixture, especially in applications where a chemical reaction is increased by water temperature.

TECHNICAL SPECIFICATIONS	
TEMP ADJUSTMENT RANGE	20-50°C
COLD INLET TEMPERATURE RANGE	5-20°C
HOT INLET TEMPERATURE RANGE	55-85°C
MINIMUM TEMP DIFFERENTIAL BETWEEN MIXED OUTLET AND COLD INLET	5°C
MAX WORKING PRESSURE (STATIC)	1400kPa
MINIMUM DYNAMIC PRESSURE	70kPa *
MAX UNBALANCED SUPPLY PRESSURE	2:1 Recommend +/-10%
MINIMUM FLOW RATE	6 l/min
COLD WATER BYPASS FLOW (HOT WATER FAILURE)	30 l/min (minimum)
DESIGN FLOW @ 50KPA DP	50 l/min

** Note that the assembly requires at least 50kPa pressure loss for maximum flow, and 20kPa extra for the differential bypass relief valve operation.*

Sufficient pressure is ALSO required to provide a minimum of 210kPa after the assembly to the emergency fixtures to comply with AS4775.

PRESSURE LOSS CHART



ASSEMBLY SIZE	
PART NUMBER	EMF50-FP
HEIGHT	400mm
WIDTH	300mm
DEPTH	120mm
HOT INLET	20mm
COLD INLET	20mm
TEPID OUTLET	20mm

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All Valve Industries Pty ltd. · Unit 2, 18-28 Sir Joseph Banks Drive
Kurnell NSW 2231 - Ph: +61 2 8543 9811 · Fax: +61 2 8543 9822
www.allvalve.com.au · info@allvalve.com.au