



Assembly VE—Value Engineered

The aggressively priced STEAMIX VE comprises a STEAMIX Steam/Water Mixing Valve of brass/stainless steel (SS) construction with optional nickel-plated finish (VES).

STEAMIX VE (VES) is supplied as standard with a 1/4 turn ball valve for outlet flow control and a dual scale thermometer.

STEAMIX VE (VES) can be optionally accessorized using the specification guide provided for use as either a base mixing unit (M) or a complete wall-mounted hose station (H).

Mixing units are recommended for use as steam/water heaters for use in various vessel filling, container “top off” barrel washing and other similar applications or for use as a hose station when a hose reel is desired.

Hose stations include a SS hose rack and are recommended for single point of use steam/water washdown applications, and can be supplied with/without a variety of hose colors and lengths, swivel adapters and spray nozzles per the specification guide provided.

Safety

- In the event of either a complete failure of the inlet cold water supply or a reduction in cold water pressure to below 20 psi (+/-5 psi) STEAMIX VE will respond with a complete shutdown of outlet flow.
- In the event of a structural failure of the primary operating component (diaphragm), STEAMIX VE will “fail-safe” to cold water.
- To prevent over-temperature selection by the user and the potential for overheated water and flash steam presentation common with other types of hose stations, STEAMIX VE is supplied as standard with a single temperature lock-out feature. A maximum temperature limiting option is also available.

Technical Specifications

- 3/4" (20 mm) inlets/outlet(s)
- Brass/stainless steel construction with double-sided ultra-durable EPDM diaphragm.
- Operating pressures
 - Maximum 150 psi (10 bar)
 - Minimum 20 psi (1.4 bar)*
- Inlet check valves strongly recommended; not supplied.
- Shipping weights
 - VE-M = 32 lbs (15 kg)
 - VE-H = 39 lbs (17 kg)
 - VE-H-25 = 56 lbs (25 kg)
 - VE-H-50 = 66 lbs (30 kg)
 - VE-H-75 = 76 lbs (34 kg)

***IMPORTANT NOTE: Lower steam pressures significantly reduce outlet flow rates. Consult flow grid or call factory before making a selection.**

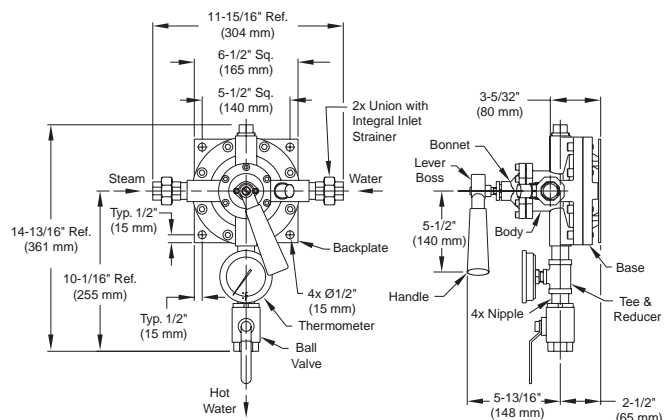
Flow Rates

The capacity charts indicate STEAMIX VE flow rates at steam and water pressures commonly available in the average manufacturing plant. The STEAMIX VE can handle a wide diversity of pressures and temperatures. Three typical outlet temperatures shown in the flow tables were selected to demonstrate the valve's flow rate at:

- A) “User safe” temperature (approx. 120°F–48°C)
- B) “Hot hose down” temperature (approx. 150/160°F–65/71°C)
- C) “Common bacteria kill” temperature (approx. 180°F–82°C)**

NOTE: All flow rates shown are with open outlet, and a reduction of flow is to be expected depending on the length and diameter of outlet pipework, washdown hose, spray nozzle, etc.

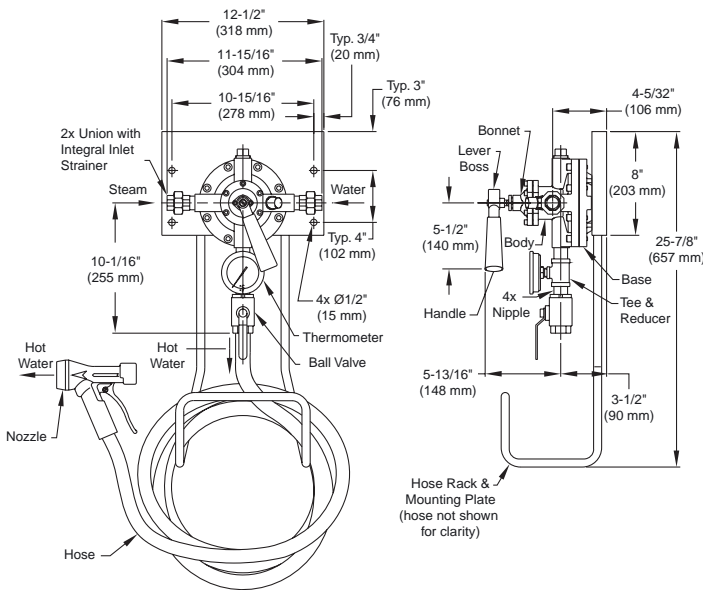
All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.



A) 55°F (31°C) Temperature Rise						
Water \ Steam	20 (1.4)	45 (3)	75 (5)	100 (7)	psi (bar)	
22 psi (1.5 bar)	6.9 (26.1)	10.2 (38.6)	10.2 (38.6)	10.2 (38.6)	gal/min (l/min)	
45 psi (3 bar)	6.9 (26.1)	13.2 (49.9)	13.2 (49.9)	13.2 (49.9)	gal/min (l/min)	
60 psi (4 bar)	6.9 (26.1)	13.8 (52.2)	15.7 (59.4)	15.7 (59.4)	gal/min (l/min)	
B) 100°F (56°C) Temperature Rise						
Water \ Steam	20 (1.4)	45 (3)	75 (5)	100 (7)	psi (bar)	
22 psi (1.5 bar)	3.6 (13.6)	6.9 (26.1)	8.3 (31.4)	8.5 (32.1)	gal/min (l/min)	
45 psi (3 bar)	3.6 (13.6)	6.9 (26.1)	9.4 (35.5)	9.9 (37.4)	gal/min (l/min)	
60 psi (4 bar)	3.6 (13.6)	6.9 (26.1)	9.4 (35.5)	10.5 (39.7)	gal/min (l/min)	
C) 135°F (75°C) Temperature Rise						
Water \ Steam	20 (1.4)	45 (3)	75 (5)	100 (7)	psi (bar)	
22 psi (1.5 bar)	2.5 (9.4)	5.0 (18.9)	6.6 (24.9)	7.2 (27.2)	gal/min (l/min)	
45 psi (3 bar)	2.5 (9.4)	5.0 (18.9)	7.2 (27.2)	8.0 (30.2)	gal/min (l/min)	
60 psi (4 bar)	2.5 (9.4)	5.0 (18.9)	7.2 (27.2)	8.0 (30.2)	gal/min (l/min)	

**The phrase “common bacteria kill” is not meant to imply sterilization capability but to indicate the ability of STEAMIX VE to handle the higher temperatures required in food, beverage and pharmaceutical plants, etc.

For a fully detailed certified drawing, refer to CDLW #1114.



Hot Water Solutions

ORDER SPECIFICATIONS GUIDE

VE - H - 25

TG - E - W

Steamix
VE = Bronze Finish
VES = Nickel Plated

Mixing Unit or Hose Station
M = Mixing Unit
H = Hose Station

Length of Safety Yellow Hose Assembly with 038 Nozzle*
25 = 25 Feet
50 = 50 Feet
75 = 75 Feet

Accessory Options

Hose Color
W = White 250 psi at 200°F
R = Red 300 psi at 180°F
B = Black 225 psi at 180°F

Swivel Adaptor Options†
E = Ergonomic Swivel Adaptor

Nozzle Options**
TG = Trigger Guard Nozzle
SS = Stainless Steel Nozzle

NOTE: Above are STEAMIX VE options.

NOTE: 038 Nozzle and Swivel Adaptor supplied as standard.

* Standard hose color is "safety yellow," 400 psi (28 bar) at 190°F (88°C) rated. If different hose color is desired, choose from color chart. Hose performance ratings will vary on selection.

** If the Nozzle option is not selected you will receive the standard 038 Nozzle.

† If the "E" Ergonomic Swivel Adaptor is not selected you will receive the standard Swivel Adaptor.

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