## **Tech Data**

# Viega Enhanced Mixing Station



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Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with Viega products and their installation. Installation by non-professionals may void Viega LLC's warranty.

#### Description

The Viega enhanced mixing station provides fluid temperature modulation when connected to a variety of heat sources. The station is equipped with an ECM motor circulator that has a permanent magnet motor design. This allows for 50% energy savings and higher starting torque. The circulator has seven different settings which allow the user flexibility in optimizing system performance. Boiler connections can be made with ProPress, PEX Press or copper (male pipe end) for soldering. A built-in sensor well allows for easy mounting of the supply temperature sensor for the basic heating control. The ball valve handles come labeled for supply and return making piping identification easy.

## **Specifications**

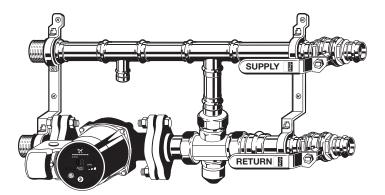
#### **Enhanced Mixing Station**

Copper:	Type "L" ASTM B88
Min Temperature:	36°F
Max Temperature:	230°F
Max Pressure:	100 psi
Max Glycol Mix:	50% @ 36°F (2°C)
Supply Voltage:	1x115V +/-10%, 60Hz

#### Circulator

Inlet Pressure			
Min. Inlet Pressure			
0.75 psi (0.05 bar)			
4.06 psi (0.28 bar)			
15.7 psi (1.08 bar)			

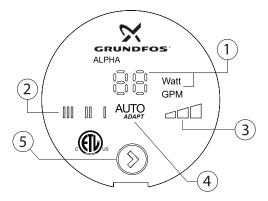
To avoid condensation in the control box and stator, the liquid temperature must always be higher than the ambient temperature



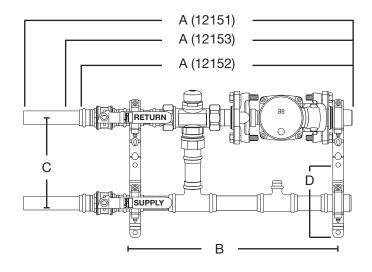
#### Approximate Power Usage

Speed Setting		Min.	Max.
High fixed speed	Ш	39W	45W
Medium fixed speed	П	15W	30W
Low fixed speed	I	5W	8W
Constant pressure		8W	45W
Constant pressure		14W	45W
Constant pressure		22W	45W
AutoADAPT	AUTO ADAPT	5W	45W

### **Control Display**



- LED showing Watt or flow indicator 1
- 2 LED indicating fixed speed
- 3 LED indicating constant pressure
- 4 LED AutoADAPT
- 5 Push-button for selection of pump setting



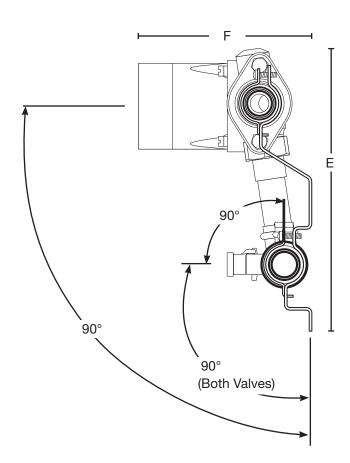
Dimensi # Outlets	Dimensions* (in) Mixing Station + Stainless Manifold		
1 outlet	N/A		
2 outlets	28.84*		
3 outlets	30.84*		
4 outlets	32.84*		
5 outlets	34.74*		
6 outlets	36.74*		
7 outlets	38.74*		
8 outlets	40.64*		
9 outlets	42.64*		
10 outlets	44.64*		
11 outlets	46.54*		
12 outlets	48.54*		

\* Dimensions based off part number 12152

\* When using part number 12153 add .86"

\* When using part number 12151 add 3.92"

Part No.	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)
12151	24.67	16	6.69	5.31	11.72	7.39
12153	21.61	16	6.69	5.31	11.72	7.39
12152	20.63	16	6.69	5.31	11.72	7.39



Performance* and		Description
<section-header><section-header></section-header></section-header>	٢	Push-button for selection of pump setting. Every time the push-button is pressed, the circulator setting is changed.
	111	<b>High Fixed Speed</b> Runs at a constant speed and consequently on a constant curve. In Speed III, the pump is set on the maximum curve under all operating conditions. Quick Vent of the pump can be achieved by setting the pump to Speed III for a short period.
	11	Medium Fixed Speed Runs at a constant speed and consequently on a constant curve. In Speed II, the pump is set on the medium curve under all operating conditions.
	1	<b>Low Fixed Speed</b> Runs at a constant speed and consequently on a constant curve. In Speed I, the pump is set on the minimum curve under all operating conditions.
		<b>Constant Pressure I</b> The duty point of the pump will move left and right along the lowest constant-pressure curve depending on water demand in the system. The pump head (pressure) is kept constant, irrespective of the water demand.
		<b>Constant Pressure II</b> The duty point of the pump will move left and right along the middle constant-pressure curve depending on water demand in the system. The pump head (pressure) is kept constant, irrespective of the water demand.
		<b>Constant Pressure III</b> The duty point of the pump will move left and right along the highest constant-pressure curve depending on water demand in the system. The pump head (pressure) is kept constant, irrespective of the water demand.
	AUTO Adapt	AutoADAPT (Factory Setting) This function controls the pump performance automatically within the defined performance range (shaded area). AutoADAPT will adjust the pump performance to system demands over time.

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