

12 Stainless Manifold Shut Off / Balancing

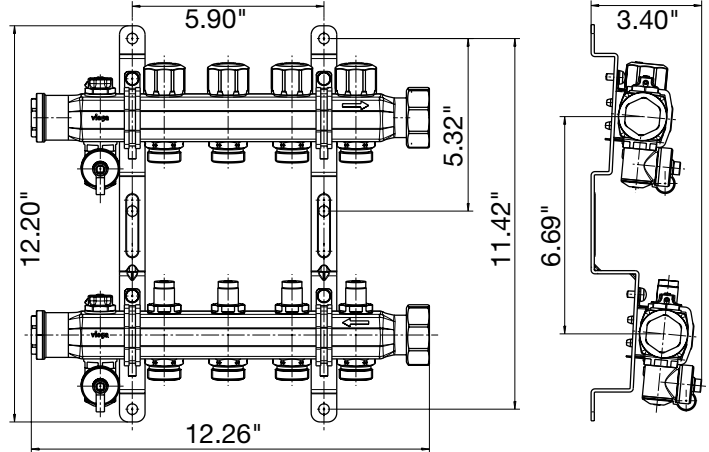
Description

Stainless manifolds are to be used in closed loop hydronic heating, cooling, and snow melting systems. These preassembled 1¼" diameter stainless supply and return manifolds come attached to two 6⅝" spacing brackets for compact remote mounting. This stainless manifold provides shut-off and balancing valves for each circuit. Manifolds allow flow rates up to 2 gpm per circuit, maximum of 18 gpm per manifold. The air bleeder and purge valve are connected and factory tested. The manifold has 1¼" union connections and 1" NPT removable end caps. SVC circuit connection fittings are sold separately.

Specifications

- 1¼" 304 stainless header stock
- Factory installed air bleeder
- Mounting brackets
- Max. Operating Temperature: 180° F (short periods of 200° F)
- Max. Operating Pressure: 100 psi
- Return Valve C_v: 2.98
- Supply Valve C_v: 3.35

The return manifold is fitted with shut-off valves which are suitable to receive optional 24V (part number 15070, 15069) or 0-10V (part number 15068) powerheads for control over each circuit via thermostat.



* When extending the manifold, Viega requires using thread sealant paste on the 1" NPT manifold end connection.

Dimensions

Manifold	Width Just Manifold (in)	Width With Ball Valve Set and Adapter Fitting (in)	Width With Ball Valve Set and Fittings For Flow Through (in)
2 outlets	8.71	12.96	14.96
3 outlets	10.7	14.95	16.95
4 outlets	12.7	16.95	18.95
5 outlets	14.6	18.85	20.85
6 outlets	16.6	20.85	22.85
7 outlets	18.6	22.85	24.85
8 outlets	20.5	24.75	26.75
9 outlets	22.5	26.75	28.75
10 outlets	24.5	28.75	30.75
11 outlets	26.4	30.65	32.65
12 outlets	28.4	32.65	34.65
Height	12.1		
Depth	3.6		
Depth with ball valve set handles	4.26		

13 Stainless Manifold Shut-Off / Balancing / Flow Meters

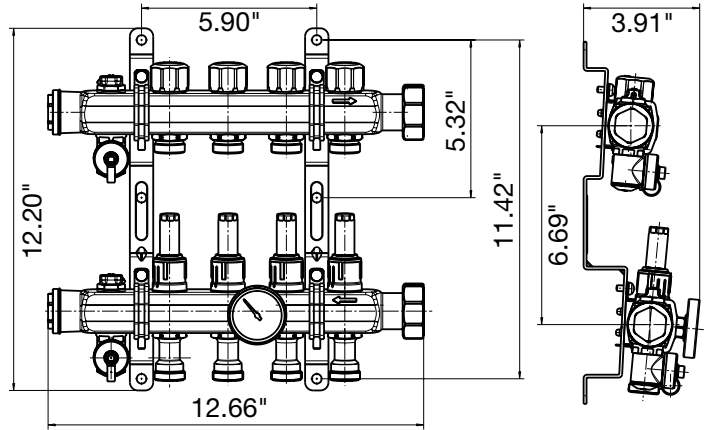
Description

Stainless manifolds are to be used in closed loop hydronic heating, cooling, and snow melting systems. These preassembled 1 1/4" diameter stainless supply and return manifolds come attached to two 6 5/8" spacing brackets for compact remote mounting. This stainless manifold provides shut-off and balancing valves with flow meters for each circuit. Each flow meter/balancing valve allows graduated flow setting up to 2 gpm, maximum 18 gpm per manifold. The air bleeder and purge valves are connected and factory tested. The manifold has 1 1/4" union connections and 1" NPT removable end caps. SVC circuit connection fittings are sold separately.

Specifications

- 1 1/4" 304 stainless header stock
- Factory installed air bleeder
- Mounting brackets
- Max. Operating Temperature: 180° F (short periods of 200° F)
- Max. Operating Pressure: 100 psi
- Return Valve C_v: 2.98
- Supply Valve C_v: 1.30

The return manifold is fitted with shut-off valves which are suitable to receive optional 24V (part number 15070, 15069) or 0-10V (part number 15068) powerheads for control over each circuit via thermostat.



* When extending the manifold, Viega requires using thread sealant paste on the 1" NPT manifold end connection.

Dimensions

Manifold	Width Just Manifold (in)	Width With Ball Valve Set and Adapter Fitting (in)	Width With Ball Valve Set and Fittings For Flow Through (in)
2 outlets	10.7	12.96	16.95
3 outlets	10.7	12.96	16.95
4 outlets	12.7	16.95	18.95
5 outlets	14.6	18.85	20.85
6 outlets	16.6	20.85	22.85
7 outlets	18.6	22.85	24.85
8 outlets	20.5	24.75	26.75
9 outlets	22.5	26.75	28.75
10 outlets	24.5	28.75	30.75
11 outlets	26.4	30.65	32.65
12 outlets	28.4	32.65	34.65
Height	12.1		
Depth	3.6		
Depth with ball valve set handles	4.26		

23 0-10V Powerhead for 1¼" Stainless Manifold

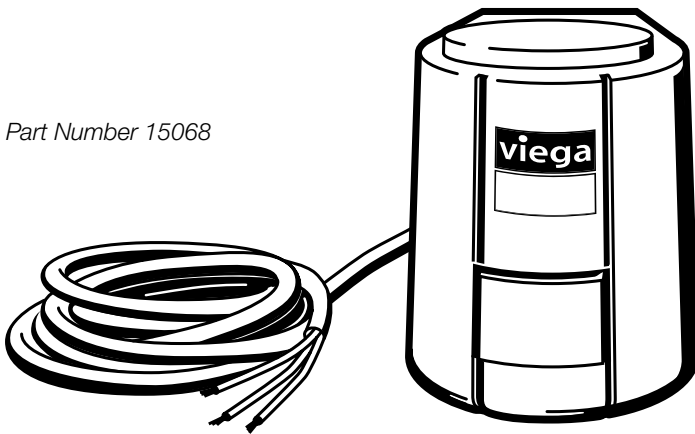
Description

The Viega 0-10V powerhead is a thermo-electric powerhead that mounts on the return valve of a Viega 1¼" stainless manifold. A 24-volt signal powers the unit open while controlled by a 0-10V DC signal, usually from either a thermostat or a central DDC building management system. This powerhead is compatible with 1¼" stainless manifolds of either shutoff/balancing or shutoff/balancing flow meter types.

Extending the Connecting Cable

The powerhead cable may be extended, the length is dependent on the number of powerheads and the gauge of the wire used. The chart below lists recommendations for extending the powerhead cable.

Part Number 15068



# of 0-10V Powerheads	Length powerhead can be extended (ft)		
	20 AWG	18 AWG	16 AWG
1	134	200	269
2	67	100	134
3	44	67	89
4	33	50	67
5	26	40	53
6	22	33	44



If your project requires something outside of what is suggested above please use the information below for your calculations.

$$L = C \times A/N$$

L= Maximum cable run length

C= Constant (269)

A= Conductor cross section (from chart below)

N= Number of powerheads

Conductor Cross Section (mm)	Substitute this American Wire Gauge
0.5	20
0.75	18
1.0	16
1.5	14
2.5	12

Transformer Sizing

Transformer Rating	Number of powerheads per transformer
40 VA	6
75 VA	12

The table above is figured based on 6 W per powerhead.