Product Bulletin:
Stainless Steel Manifolds

Our new Stainless Steel manifolds offer several great features:

* Flexible, modular and singular design system
* Easy-to-assemble construction
* Precise flow control and balancing
* Fittings for both PEX and Onix radiant tubing
* Control for hydronic floor heating, fan coil heating, or baseboard heating
* No sealant, no teflon

Stainless Steel manifolds are sold in 1 to 12-branch pairs for easy assembly in the field. They are 1” AISI 304 Stainless Steel and can handle up to 12 gpm. Manifold sections are easily connected together, if more circuits are required. Simply thread two sections together with the use of 1” manifold coupling and tighten. Make sure the gasket is installed prior to assembly.

Manifolds Are Sold In Pairs:
1) Balancing Valve Manifold (with optional Actuator)
2) Flow Indicator Manifold

Accessories
Accessories include Vent/Purge Assembly, Valve Actuator, Transitional Fittings, Mounting Brackets (standard with manifold pairs), and Lockable Manifold Boxes
(Vent/Purge, End Caps, Trunk Isolation Valves and Transition Fittings all have flat gaskets that must be installed without the use of sealants or teflon.)

Flow Balancing
Balancing is achieved by either:
1. Adjusting the Balancing Knob, or
2. Adjusting the dial located under the Adjustment Cap. Dial is adjusted with the use of the Adjustment Key. The key comes attached to the manifold via nylon tie.

Flow can be visually fine-tuned by viewing the sight glass indicator while adjusting the balancing valve on the return manifold.

On-Off Circuit Control
For systems requiring individual circuit thermostat control, an electronic Valve Actuator is installed. Valve Actuators are four-wire, to connect to the zone thermostat and use end switch wires to activate the circulator. With this arrangement, every room can be thermostatically controlled from one central distribution manifold.

Note:
Depending on the actuator style used, some circuit adjustment may be necessary.

Additional flow control can be achieved by installing individual circuit isolation mini-ball valves. These valves allow for balancing and shut-off capabilities without having to remove the adjustment cap or thermal actuator.

Note:
1) Stainless Steel Manifolds can be used to control fan coils or baseboard units, as well as floor heating.
2) Manifolds are not intended to exceed 87 psi at 194°F operating conditions.

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**ITEM NUMBER** | **DESCRIPTION** | **LIST PRICE**
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D3804000SS | .M1 Stainless Steel Manifold Pair with Flow Meters | $144.00
D3805002SS | .M2 Stainless Steel Manifold Pair with Flow Meters | $178.00
D3805003SS | .M3 Stainless Steel Manifold Pair with Flow Meters | $225.75
D3805004SS | .M4 Stainless Steel Manifold Pair with Flow Meters | $273.00
D3805005SS | .M5 Stainless Steel Manifold Pair with Flow Meters | $355.00
D3805006SS | .M6 Stainless Steel Manifold Pair with Flow Meters | $383.25
D3805007SS | .M7 Stainless Steel Manifold Pair with Flow Meters | $427.00
D3805008SS | .M8 Stainless Steel Manifold Pair with Flow Meters | $472.50
D3805009SS | .M9 Stainless Steel Manifold Pair with Flow Meters | $522.00
D3805010SS | .M10 Stainless Steel Manifold Pair with Flow Meters | $572.25
D3805011SS | .M11 Stainless Steel Manifold Pair with Flow Meters | $624.00
D3805012SS | .M12 Stainless Steel Manifold Pair with Flow Meters | $677.25
D4201720-N | .Trunk Isolation Ball Valve with Temperature Gauge | $48.90
D4201715-N | .Vent and Purge Assembly | $35.70
D063064-N | .Manifold End Cap | $6.06
D4201480-N | .BSP to NPT Transition Fitting | $31.50
D402178-N | .1” x 1” Manifold Coupling | $20.88
D4201480-N | .Circuit Isolation Plug | $9.36
D4201710-N | .Circuit Isolation Mini Ball Valve | $23.10
PZ656104 | .Valve Actuator | $63.00

Note:
- Order T-20 Compression PEX fittings or Onix fittings and clamps separately.
- Stainless Steel manifolds can be ordered fully-assembled with all optional components for 15% above the cost of all components.
### Vent/Purge Assembly

- **Manual Key Vent**
- **Balance Valve**
- **Adjustment Knob**

### Supply

- **Mounting Bracket**
- **Circuit Isolation Plug**
  - Replace Flow Indicator with Isolation Plug
- **Circuit Mini Ball Valve**
- **End Cap**
- **BSP (straight thread) to Circuit Mini Ball Valve**
- **Gasket**

### Return

- **Trunk Isolation Valve**
  - with Temperature Gauge
- **Attachment Nut**
- **Purge Open/Close**
- **Flow Indicator**
  - includes **Valve Flow Adjustment Key**

### Gaskets

- **Gaskets must be installed.**
- **Thread sealants or Teflon are not required.**

### Product Bulletin: Stainless Steel Manifolds

- **Manifold Sizes**

### Manifolds

- **Return Manifold Sizes**
- **Supply Manifold Sizes**

### Instructions

- **The manual vent at the top of the** Vent/Purge assembly uses a directional discharge cap. Turn the white cap to aim the pressure discharge.
- **Vent/Purge Assembly** incorporates a built in purge valve. The valve is opened by loosening the lower nut. To close the valve, tighten the lower nut.
- **The Attachment Nut** should not be adjusted as this will remove the valve from the assembly.
- **When tightening the compression nut,** hold the base firmly with a thin profile box wrench. Do not let the base nut tighten or loosen while adjusting the compression fit.
- Make sure to tighten the compression nut to 20 in-pounds of torque. If a torque wrench is unavailable, tighten until snug and then one additional 1/4” turn.

(Note: The compression sleeve is “directional”. It is barbed on the inside to help lock the PEX in place. Slide the sleeve onto the PEX so the groove on the outside of the sleeve is closest to the insert fitting - see diagram above).