

Installation Instructions

Stainless Steel Manifolds

WARNING



Read this Manual **BEFORE** using this equipment. Failure to read and follow all safety and use information can result in death, serious personal injury, property damage, or damage to the equipment. Keep this Manual for future reference.



Watts Stainless Steel Manifolds offer great features for centralizing plumbing connections and controls.

- 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, fan coil, or baseboard heating
- No sealant, no PTFE tape

The manifolds are sold in 1 to 12 branch pairs for easy assembly in the field. Constructed with 1" AISI 304 Stainless Steel, these distribution units can handle up to 12 gallons per minute. The manifold sections connect easily when more circuits are required. Simply thread two sections together by using a 1" manifold coupling and tighten. Install the gasket before assembly.

Manifolds Are Sold in Pairs

Balancing Valve Manifold (with optional Actuator)
Flow Indicator Manifold

Accessories

Add-ons 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 PTFE tape.)

Flow Balancing

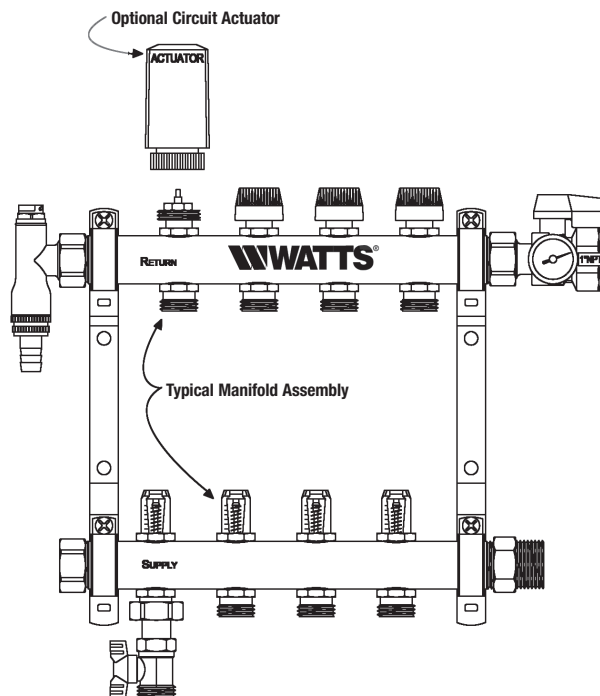
Balancing is achieved by either one of two methods:

- Using the Balance Valve Adjustment Knob
- Using the Valve Flow Adjustment Key to change the dial located under the adjustment knob (The key comes attached to the manifold with a 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 thermostatic control, install the optional circuit actuator. Valve actuators are four-wire devices, to connect to the zone thermostat and use end switch wires to activate the circulator. With this arrangement, each room can be thermostatically controlled from one central distribution manifold.



NOTICE

Depending on the actuator style in use, 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 shutoff capabilities without having to remove the adjustment cap or thermal actuator.

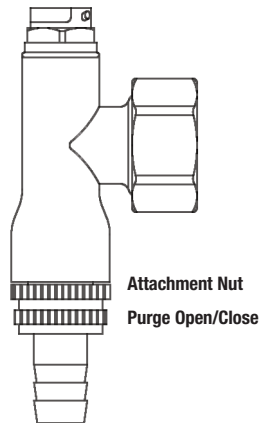
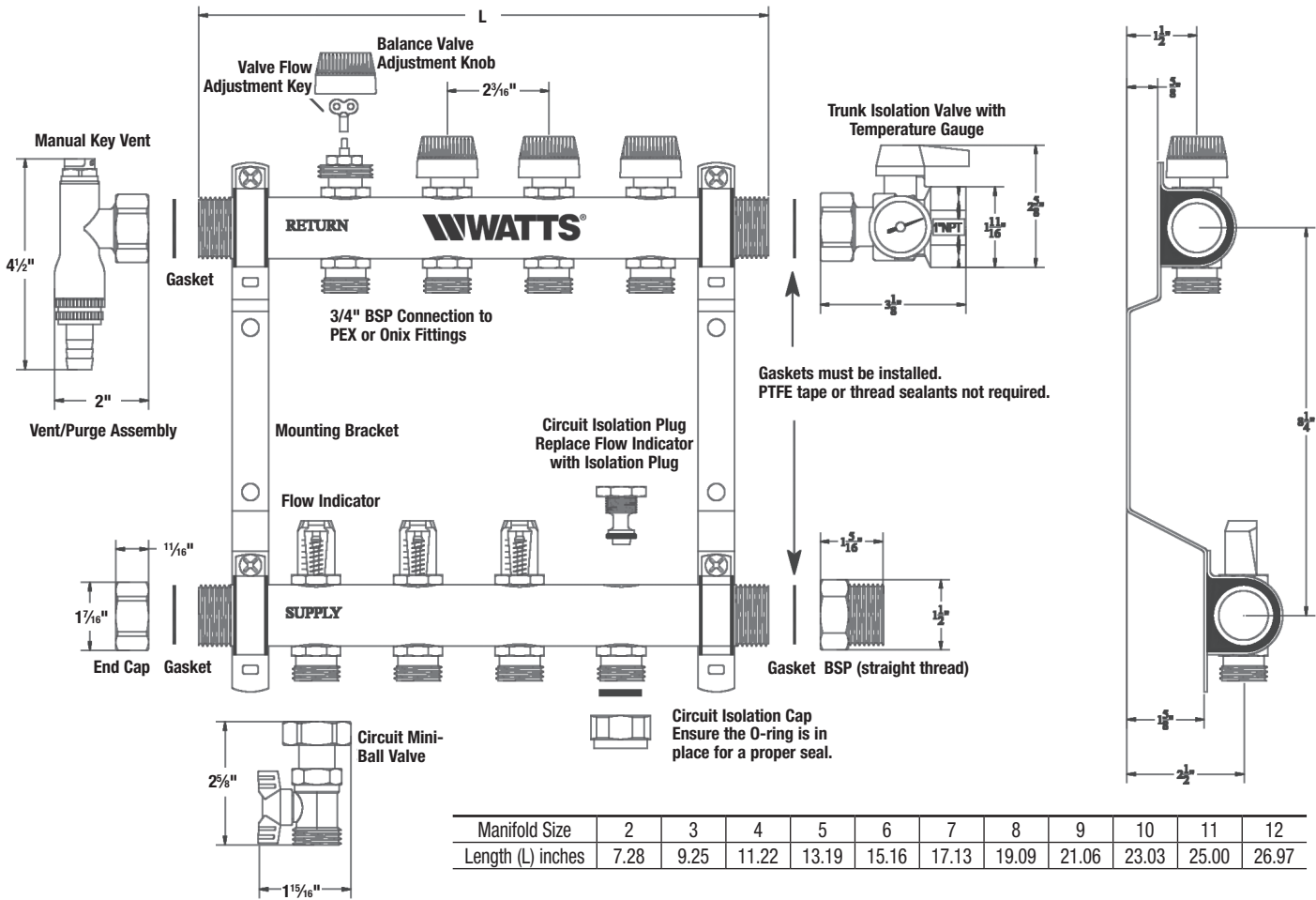
Manifolds are not intended to exceed 87 psi at 194°F operating conditions.

| ITEM NUMBER | DESCRIPTION |
|-------------|--|
| D3803002SS | M2 Stainless Steel Manifold Pair with Flow Meters |
| D3803003SS | M3 Stainless Steel Manifold Pair with Flow Meters |
| D3803004SS | M4 Stainless Steel Manifold Pair with Flow Meters |
| D3803005SS | M5 Stainless Steel Manifold Pair with Flow Meters |
| D3803006SS | M6 Stainless Steel Manifold Pair with Flow Meters |
| D3803007SS | M7 Stainless Steel Manifold Pair with Flow Meters |
| D3803008SS | M8 Stainless Steel Manifold Pair with Flow Meters |
| D3803009SS | M9 Stainless Steel Manifold Pair with Flow Meters |
| D3803010SS | M10 Stainless Steel Manifold Pair with Flow Meters |
| D3803011SS | M11 Stainless Steel Manifold Pair with Flow Meters |
| D3803012SS | M12 Stainless Steel Manifold Pair with Flow Meters |
| D4201720-P | Trunk Isolation Ball Valve with Temperature Gauge |
| D4201715-N | Vent and Purge Assembly |
| D063064-N | Manifold End Cap |
| D4201480-P | BSP to NPT Transition Fitting |
| D402178-P | 1" x 1" Manifold Coupling |

Note:

- Order T-20 Compression PEX fittings or Onix fittings and clamps separately.
- Stainless steel manifolds can be ordered fully assembled.

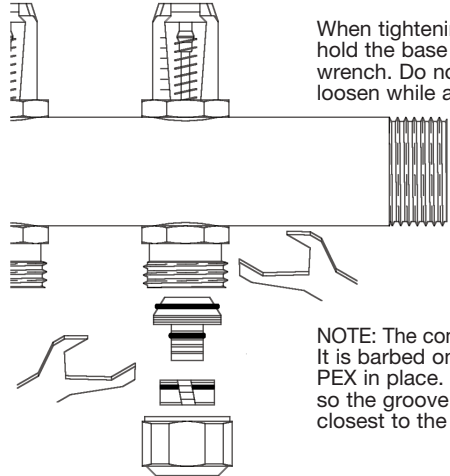




The manual vent at the top of the Vent/Purge assembly uses a directional discharge cap. Turn the white cap to aim the pressure discharge.

The Vent/Purge assembly incorporates a built-in purge valve. Open the valve by loosening the lower nut. To close the valve, tighten the lower nut.

Do not adjust the Attachment Nut, as this part removes 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.

Tighten the compression nut to 20 inch-pounds of torque. If without a torque wrench, tighten the nut until snug then make an additional quarter 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.

Limited Warranty: Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

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