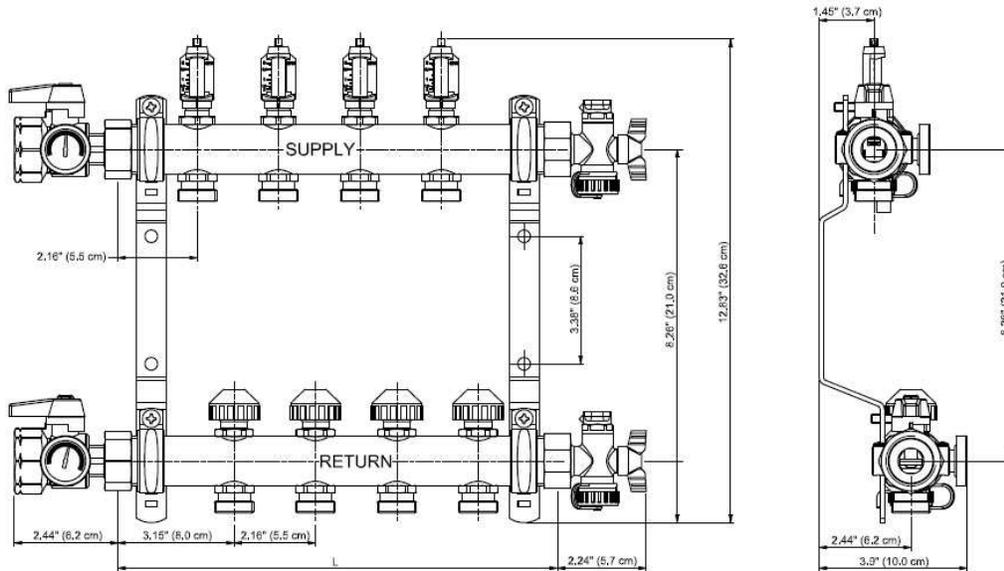


PRODUCT SUBMITTAL 203

Product: **PRO-BALANCE® 1 in. Brass Manifolds With Complete Circuit Isolation Capabilities**

Date: **14 September 2012 (supersedes 11 February 2010)**



Article No.	No. of Outlets	L Length in (cm)	Total Depth in (cm)	Total Height in (cm)
240021-100	2	7.48 (19.0)	3.75* (9.5) *with mini thermometers installed	12.50 (31.7)
240031-100	3	9.65 (24.5)		
240041-100	4	11.81 (30.0)		
240051-100	5	13.98 (35.5)		
240061-100	6	16.14 (41.0)		
240071-100	7	18.31 (46.5)		
240081-100	8	20.47 (52.0)		
240091-100	9	22.64 (57.5)		
240101-100	10	24.80 (63.0)		
240111-100	11	26.97 (68.5)		
240121-100	12	29.13 (74.0)		

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TECHNICAL DESCRIPTION

Material	
Headers	Brass (CW 508L)
Ball valve casing and end piece set	Brass (CW 617N)
Valve casing, lower valve part and flow indicator casing	Brass (CW 614)
Valve shaft	Nickel-plated brass (CW 614)
Valve spring and flow indicator spring	Stainless steel 1.430
O-ring washers	EPDM 71 Shore A
Valve disk and valve head	EPDM 80 Shore A
Connection ball valve/end piece	AFM 34 Synthetic fiber based material
Transparent flow indicator	Polyamide 12
Plunger in flow indicator	Polyoxymethylene
Connections	
Header ends	1 in. BSP parallel (straight) threads
Outlets	R-20 BSP parallel (straight) outside threads
Isolation valve	1 in. NPT female threads
Temperature / Pressure Capabilities	
Maximum operating temperature	176°F (80°C) @ 87 psi (6 bar)
Minimum operating temperature	14°F (-10°C) @ 145 psi (10 bar)
Maximum water test pressure (24 hrs. < 86°F (30°C) @ max. ambient temperature 104°F (40°C)	116 psi (8 bar)
Flow Rates	
Maximum flow rate	2.0 GPM per circuit; 20 GPM total (0.13 l/s per circuit; 1.27 l/s total)

FUNCTIONAL DESCRIPTION

Pre-assembled and factory pressure-tested. For use with 3/8, 1/2, 5/8 and 3/4 in. RAUPEX® pipes using REHAU manifold connections (sold separately). Compatible with manifold valve actuator (Art. 260166). May be mounted in any orientation (e.g., inverted, horizontal, etc.).

Each manifold comes complete with:

- Visual flow gauges (GPM) for each circuit on supply side; flow gauges have internal polymer “cages” to prevent build-up of debris, can be used for individual circuit isolation and have an accuracy of +/- 10%
- Circuit balancing/isolation valves on return side
- Two 1 in. NPT supply and return manifold isolation valves with thermometer housings, two mini thermometers included
- Two air vent/boiler drain valves with manual air vent and 3/4 in. GHT hose connection
- Four drywall screws and four self-tapping screws for mounting
- Manifold circuit chart
- Vent key and key holder
- Product instructions