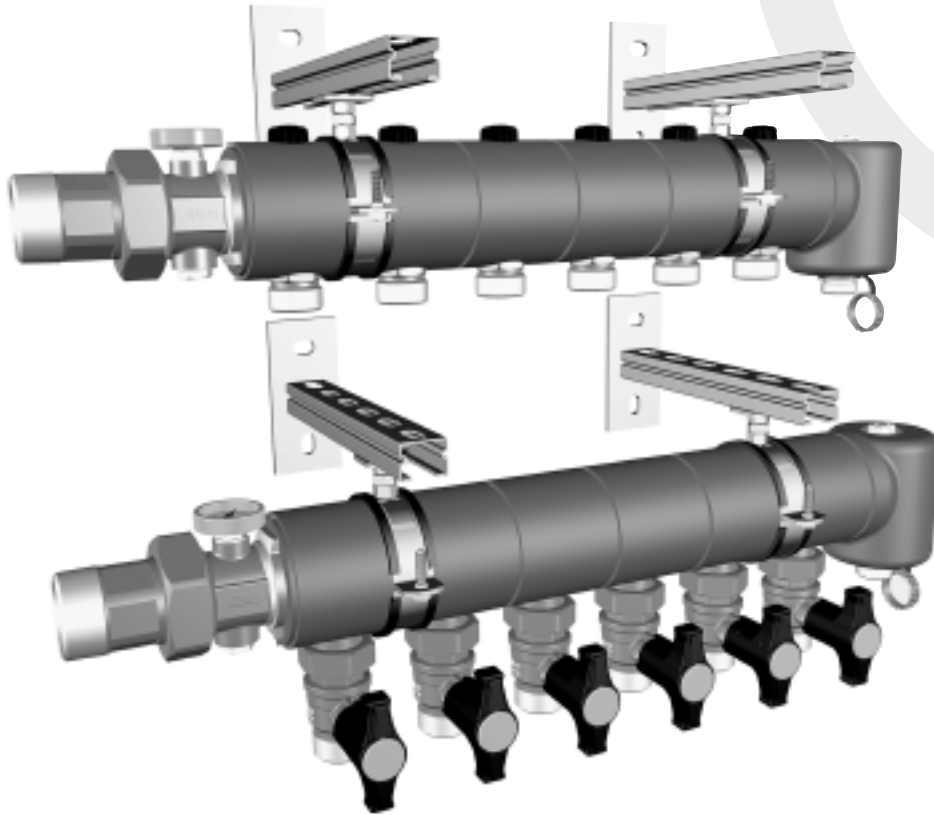
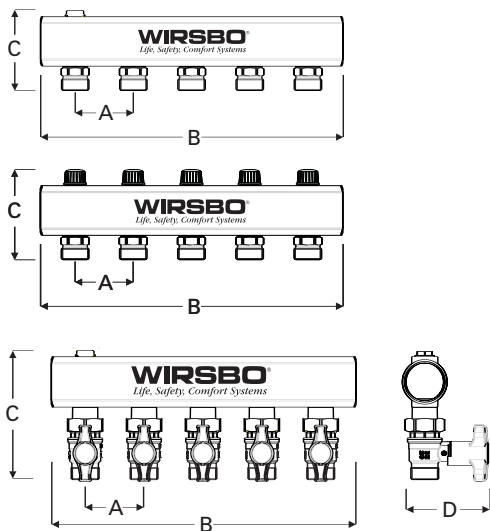


TruFLOW™ Sr. Manifold System



Manifold Specifications

Maximum Working Pressure: 145 psi
 Maximum Fluid Temperature: 220°F
 Manifold Flow Capacity: 43 gpm
 Manifold Connection: 1½" NPT and Cu
 Loop Flow Capacity: $C_v = 7.4$ gpm
 Loop Connection: R25

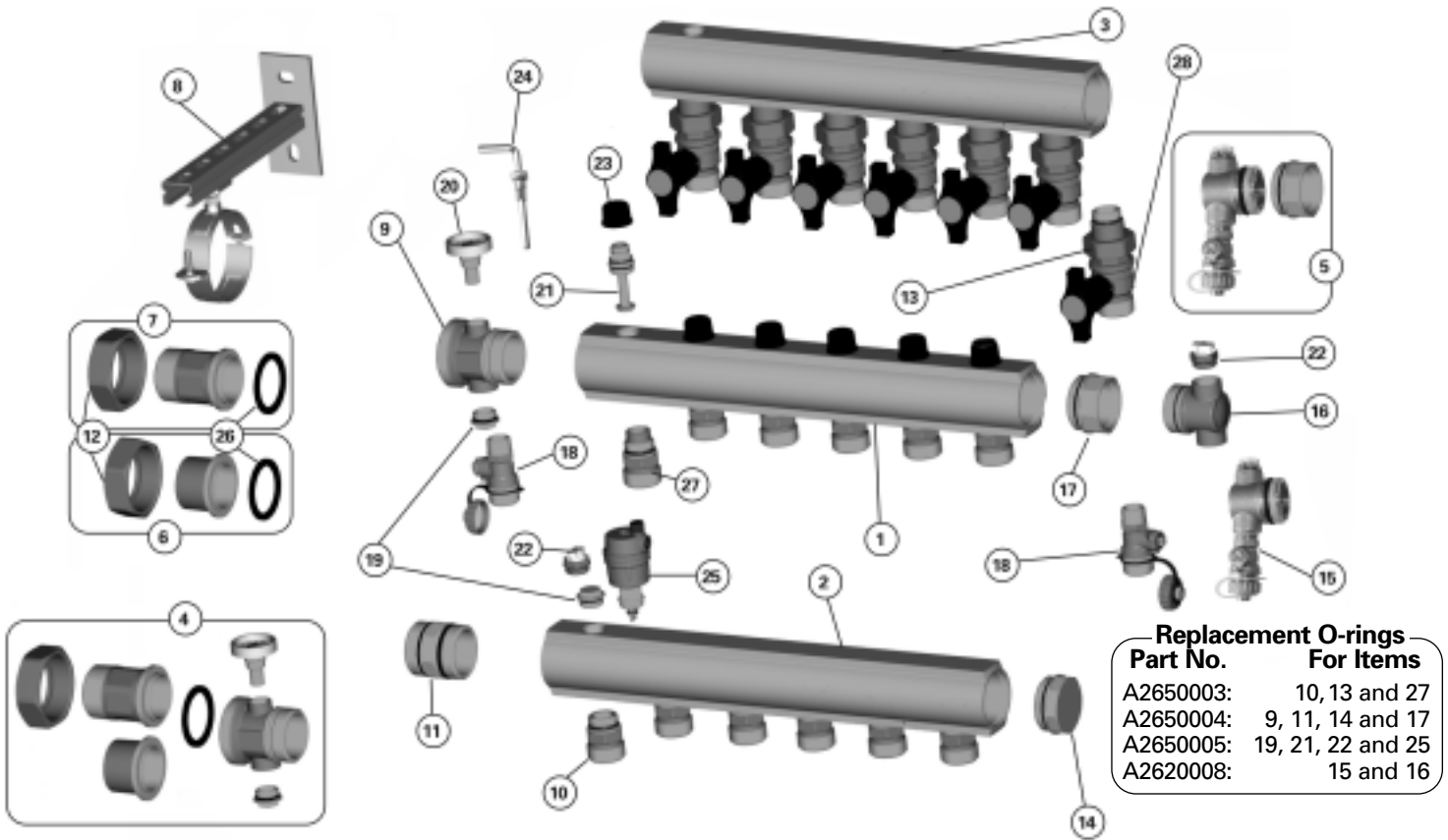


Dimensions

Wirsbo TruFLOW Sr. Valveless Manifolds	Part No.	A	B	C	D
TruFLOW Sr. Manifold, 2-loop, valveless	A2650200	2.755	6.062	3.791	N/A
TruFLOW Sr. Manifold, 3-loop, valveless	A2650300	2.755	8.818	3.791	N/A
TruFLOW Sr. Manifold, 4-loop, valveless	A2650400	2.755	11.574	3.791	N/A
TruFLOW Sr. Manifold, 5-loop, valveless	A2650500	2.755	14.330	3.791	N/A
TruFLOW Sr. Manifold, 6-loop, valveless	A2650600	2.755	17.086	3.791	N/A
Wirsbo TruFLOW Sr. Balancing Manifolds					
TruFLOW Sr. Manifold, 2-loop, balancing	A2650201	2.755	6.062	4.28	N/A
TruFLOW Sr. Manifold, 3-loop, balancing	A2650301	2.755	8.818	4.28	N/A
TruFLOW Sr. Manifold, 4-loop, balancing	A2650401	2.755	11.574	4.28	N/A
TruFLOW Sr. Manifold, 5-loop, balancing	A2650501	2.755	14.330	4.28	N/A
TruFLOW Sr. Manifold, 6-loop, balancing	A2650601	2.755	17.086	4.28	N/A
Wirsbo TruFLOW Sr. On/Off Manifolds					
TruFLOW Sr. Manifold, 2-loop, on/off	A2650202	2.755	6.062	6.012	4.04
TruFLOW Sr. Manifold, 3-loop, on/off	A2650302	2.755	8.818	6.012	4.04
TruFLOW Sr. Manifold, 4-loop, on/off	A2650402	2.755	11.574	6.012	4.04
TruFLOW Sr. Manifold, 5-loop, on/off	A2650502	2.755	14.330	6.012	4.04
TruFLOW Sr. Manifold, 6-loop, on/off	A2650602	2.755	17.086	6.012	4.04



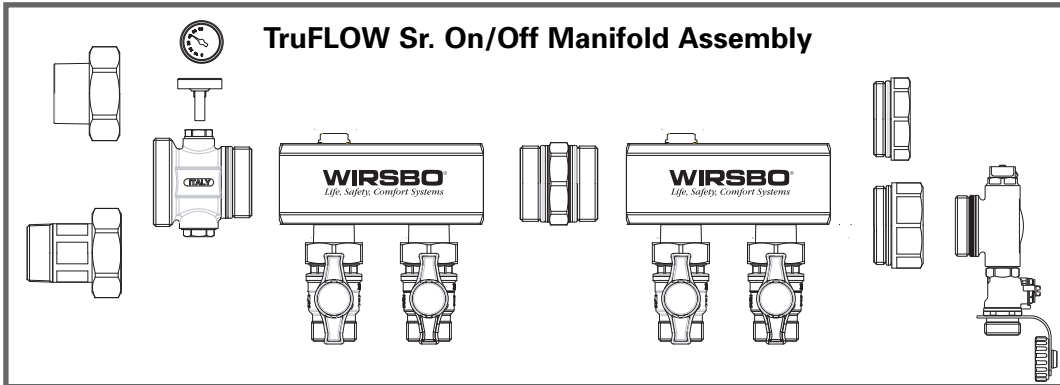
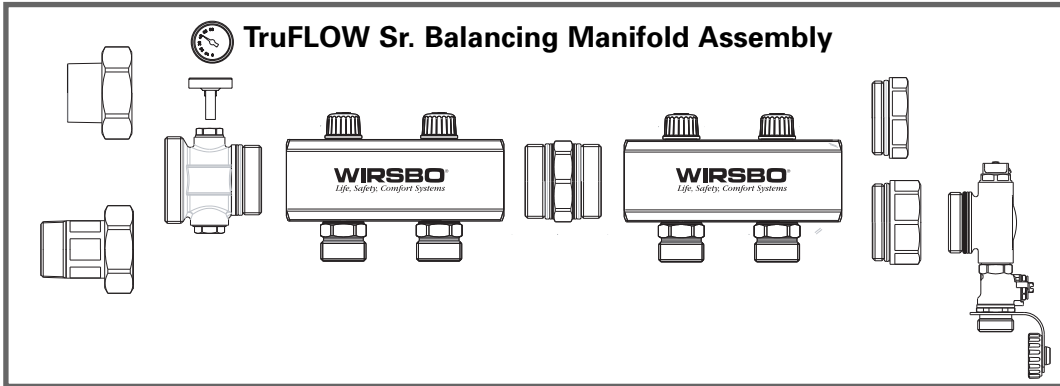
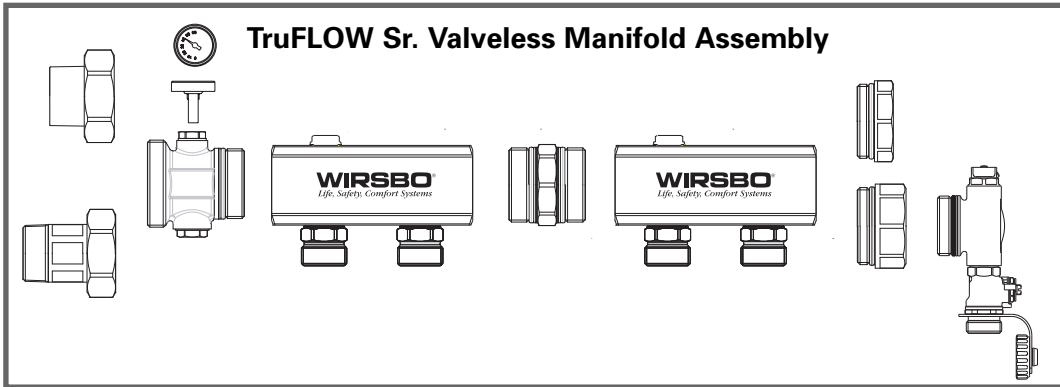
TruFLOW Sr. Manifold



Replacement O-rings Part No.	For Items
A2650003:	10, 13 and 27
A2650004:	9, 11, 14 and 17
A2650005:	19, 21, 22 and 25
A2620008:	15 and 16

No.	Part Description	Part Number
1	TruFLOW Sr. Balancing Manifold, 2-loop	A2650201
1	TruFLOW Sr. Balancing Manifold, 3-loop	A2650301
1	TruFLOW Sr. Balancing Manifold, 4-loop	A2650401
1	TruFLOW Sr. Balancing Manifold, 5-loop	A2650501
1	TruFLOW Sr. Balancing Manifold, 6-loop	A2650601
2	TruFLOW Sr. Valveless Manifold, 2-loop	A2650200
2	TruFLOW Sr. Valveless Manifold, 3-loop	A2650300
2	TruFLOW Sr. Valveless Manifold, 4-loop	A2650400
2	TruFLOW Sr. Valveless Manifold, 5-loop	A2650500
2	TruFLOW Sr. Valveless Manifold, 6-loop	A2650600
3	TruFLOW Sr. On/Off Manifold, 2-loop	A2650202
3	TruFLOW Sr. On/Off Manifold, 3-loop	A2650302
3	TruFLOW Sr. On/Off Manifold, 4-loop	A2650402
3	TruFLOW Sr. On/Off Manifold, 5-loop	A2650502
3	TruFLOW Sr. On/Off Manifold, 6-loop	A2650602
4	TruFLOW Sr. Manifold Connection with Union, 1½" BSP x 1½" NPT or 1½" Cu, set of 2	A2651500
5	TruFLOW Sr. Manifold End Cap with Vent, 1½" BSP	A2651250
6	TruFLOW Sr. Manifold Connection Male Union, 2" BSP x 1½" Cu Sweat	A2651502
7	TruFLOW Sr. Manifold Connection Male Union, 2" BSP x 1½" NPT	A2651503
8	TruFLOW Sr. Manifold Bracket, set of 4	A2650006
9	TruFLOW Sr. Manifold Connection Union Body, 1½" BSP x 2" BSP, replacement part	A2651501
10	TruFLOW Sr. Loop Nipple for Valveless Manifold, R25, replacement part	A2650018
11	TruFLOW Sr. Manifold Coupling Nipple, 1½" BSP x 1½" BSP	A2651515

No.	Part Description	Part Number
12	Replacement Nut for 1½" TruFLOW Sr. Union	A2651504
13	TruFLOW Sr. Manifold Isolation Loop Ball Valve Union, replacement part	A2650017
14	TruFLOW Sr. Manifold Basic End Cap, 1½" BSP	A2651251
15	TruFLOW End Cap with Vent and Drain, 1¼" BSP	A2621250
16	TruFLOW End Cap Vent Body, replacement part	A2620011
17	TruFLOW Sr. Manifold Reduction Bushing, 1½" BSP x 1¼" BSP	A2651513
18	TruFLOW End Cap with Vent Valve, ½" BSP x ¾" Garden Hose, replacement part	A2620012
19	TruFLOW Sr. ½" Cap, replacement part	A2650019
20	Thermometer with Well, replacement part	A2610120
21	TruFLOW Sr. Balancing Valve Body, replacement part	A2650010
22	TruFLOW End Cap Coin Vent, replacement part	A2620010
23	TruFLOW Balancing Valve Plastic Cap, replacement part	A2620014
24	TruFLOW Manifold Balancing Hex Key	A2620002
25	TruFLOW Automatic Air Vent with Check Valve	A2620050
26	Replacement Gasket for 1½" TruFLOW Sr. Union	A2650001
27	TruFLOW Sr. Internal Valve Seat Loop Nipple, R25, replacement part	A2650011
28	TruFLOW Sr. Manifold Isolation Loop Ball Valves, R25, replacement part	A2650002



Applying Silicone Oil

Refer to **Figure 1** and follow the instructions to apply the silicone oil (part number A2620007) to the manifold assembly.

1. Apply an ample amount of silicone oil, provided in the manifold box, onto the thread over the factory-applied Teflon thread sealer.
- 2a. Spin the component into the manifold body until the o-ring disappears. You now have one full turn remaining to orient the component in the preferred position.
- 2b. Spin the component into the manifold body until the o-ring disappears and the flange is in contact with the manifold body.

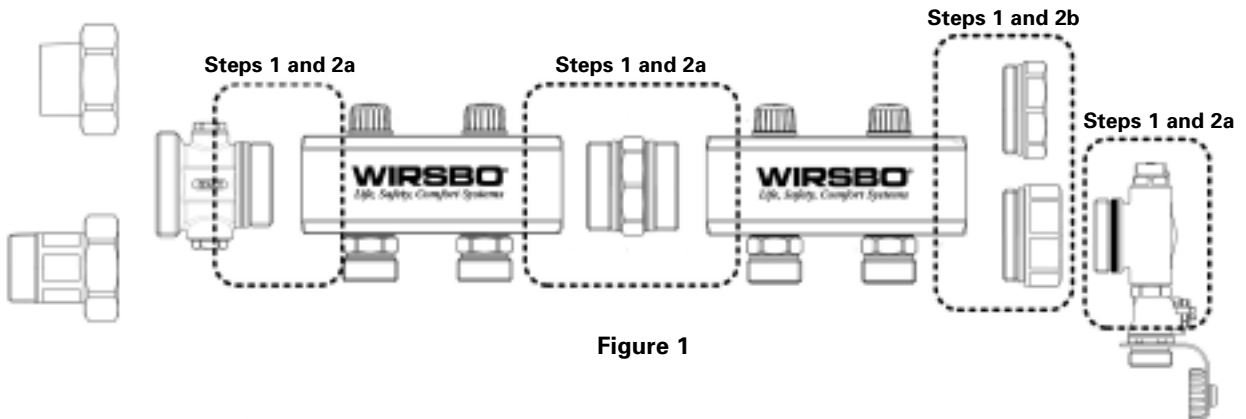


Figure 1

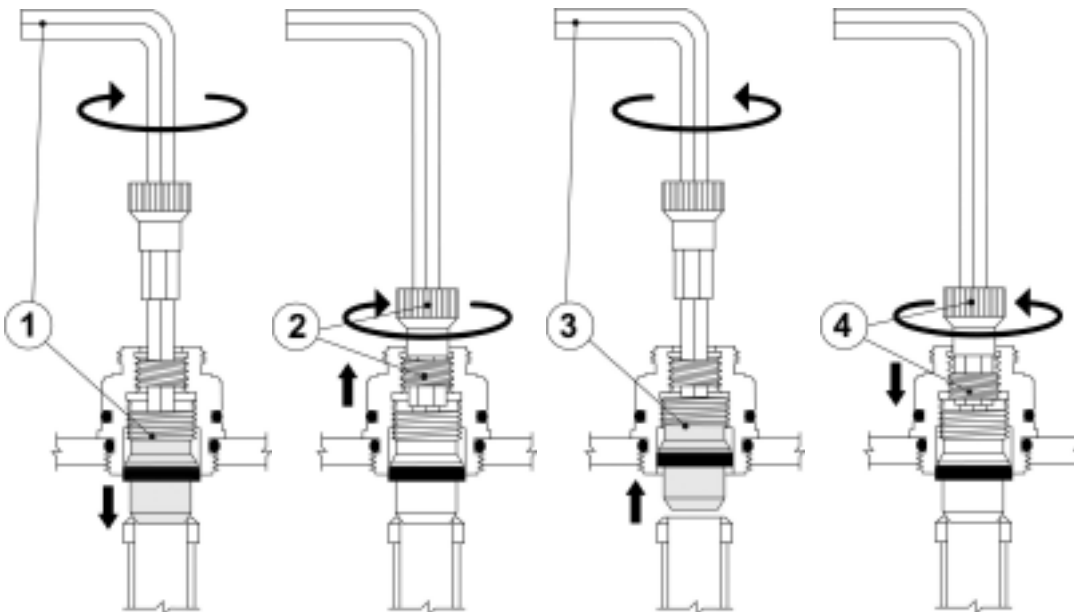
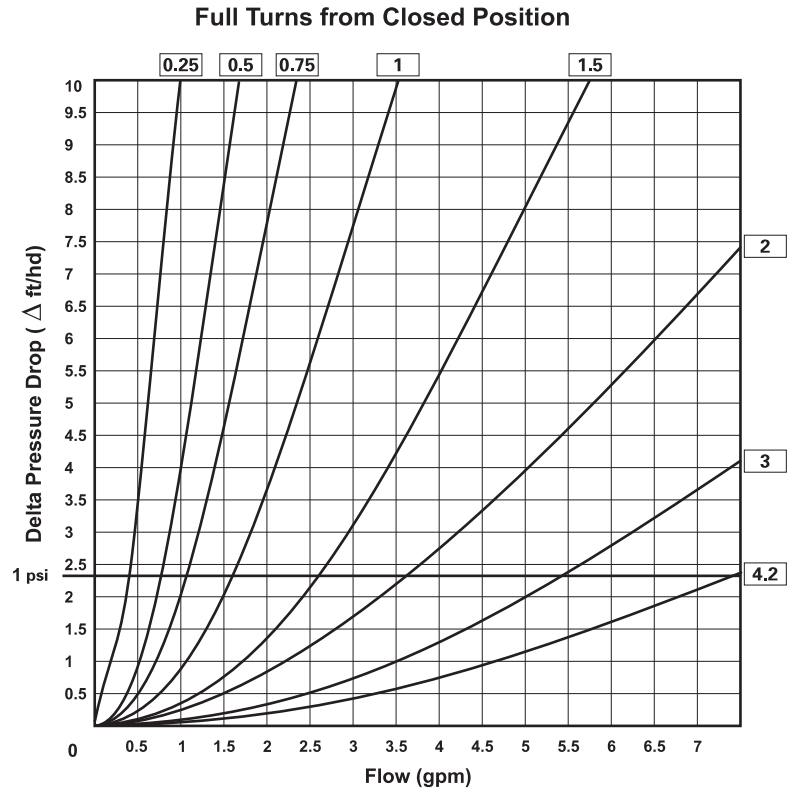
How to Determine Balancing Turns

To balance the manifold correctly, determine the gallon per minute (gpm) flow and pressure drop (ft/hd) for each loop on the manifold. To find the required turns, follow the directions below.

1. On the manifold to be balanced, find the loop with the highest pressure drop (ft/hd). This loop does not need any balancing, and will be fully open (4.25 turns from closed position).
2. To balance all other loops on the manifold, find the pressure drop (ft/hd) for each loop and subtract from the loop with the highest pressure drop (same as the loop figured in Step 1). The difference is the delta ft/hd. Use this number on the balancing chart to find the required number of balancing turns.

Example: If the highest pressure-drop loop has 7 ft/hd and the loop that needs to be balanced has 5 ft/hd, subtract 5 from 7 for a difference of 2 Delta ft/hd.

3. Locate the delta ft/hd number on the vertical scale located on the left side of the balancing chart.
4. Locate the gallons per minute (gpm) on the horizontal scale at the bottom of the balancing chart.
5. Locate where the delta ft/hd and gpm intersect on the chart.
6. The closest diagonal line to this intersection represents the number of full valve turns from closed to open to accurately balance the loop. If the intersection falls between two diagonal lines, estimate the distance between the lines and adjust the turns accordingly.



Valve Setting

To balance and preset the manifold assembly, follow the steps below.

1. Using the chrome allen key (6mm), turn the main valve clockwise until it stops.
2. Using the small brass key, turn the memory stop clockwise until it stops.
3. Using the chrome allen key, turn the main valve counter-clockwise to set the loop flow or balancing turns for that loop.
4. Using the small brass key, turn the memory stop counter-clockwise until it stops.

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