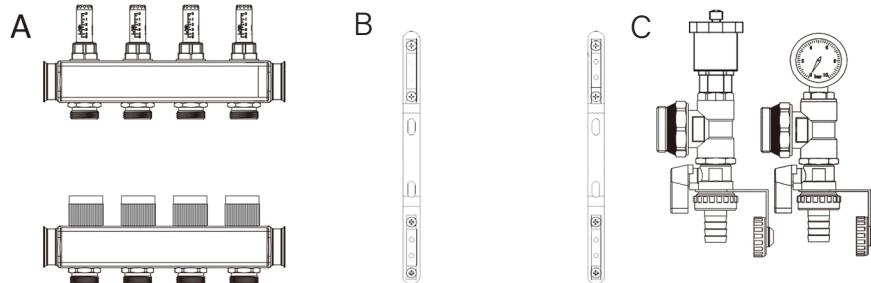


Underfloor Heating Manifold

Instruction Manual

Manifold Contents



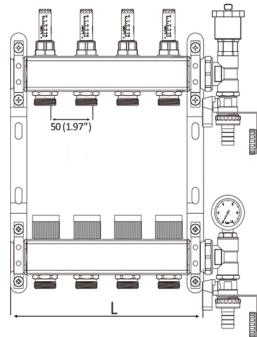
A	Supply Manifold with Flow Meter
	Return Manifold with gate valves
B	Wall Mounting Bracket
C	Air Purge/Drain Valve (Red)
	Pressure gauge/Drain Valve(Blue)

Warning

We recommend you consult a qualified technician if you have any difficulty understanding the instructions presented in this installation manual.

Incorrect installation could result in unsafe operation and we will not be held liable for any injury or damage that may occur as a result of flawed installation or incorrect use.

Manifold Dimensions (mm/in)

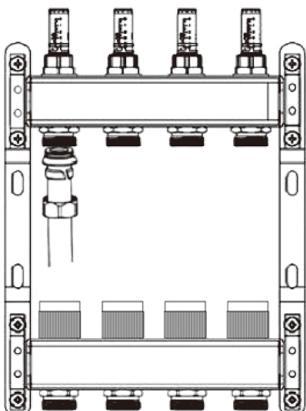


	CONNECTIONS	LOOPS	L/mm	L/in
SSM002	G1"X3/4"	2	126	4.96
SSM003	G1"X3/4"	3	176	6.93
SSM004	G1"X3/4"	4	226	8.90
SSM005	G1"X3/4"	5	276	10.87
SSM006	G1"X3/4"	6	326	12.83
SSM007	G1"X3/4"	7	376	14.80
SSM008	G1"X3/4"	8	426	16.77
SSM009	G1"X3/4"	9	476	18.74
SSM010	G1"X3/4"	10	526	20.71
SSM011	G1"X3/4"	11	576	22.68
SSM012	G1"X3/4"	12	626	24.65

Materials	Manifold Body	Stainless Steel
	Port Connection	Brass
	Seal	EPDM
Working Performance	Permissible Maximum Continuous Working Temperature: 100 C at 8bar	
Working Media	Media 1	Water
	Media 2	Water/Ethylene Glycol 50/50%
	Media 3	Water/Propylene Glycol 50/50%
Flow	Indication Scale	0-5L/min(0-1.32G/min)
	Indication Tolerance	±10%
	Kvs	<p>pressure drop [mbar]</p> <p>flow rate [l/h]</p> <p>outlets</p> <p>1,000</p> <p>100</p> <p>10</p> <p>1</p> <p>12</p> <p>6</p> <p>5</p> <p>4</p> <p>3</p> <p>2</p> <p>1</p> <p>11</p> <p>10</p> <p>9</p> <p>8</p> <p>7</p> <p>1,000</p> <p>10,000</p> <p>100</p> <p>10,000</p> <p>Subject to technical modifications</p>
Connection	Supply/Return	G1" female
	Circuit Connection	G3/4" male
	Flowmeter Connection	G1/2" male

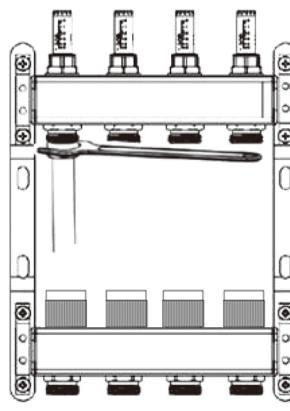
Technical Data

1



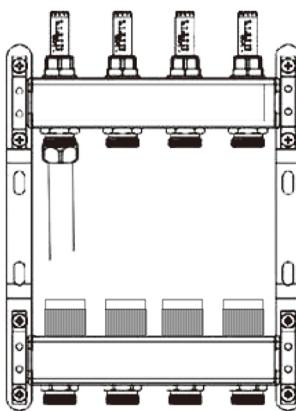
Connect the pipe to the manifold using the compression connectors provided

2



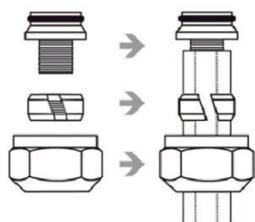
Tighten the compression nut connected to the manifold using a suitable spanner

3



Repeat steps 1 and 2 on each loop to complete your installation

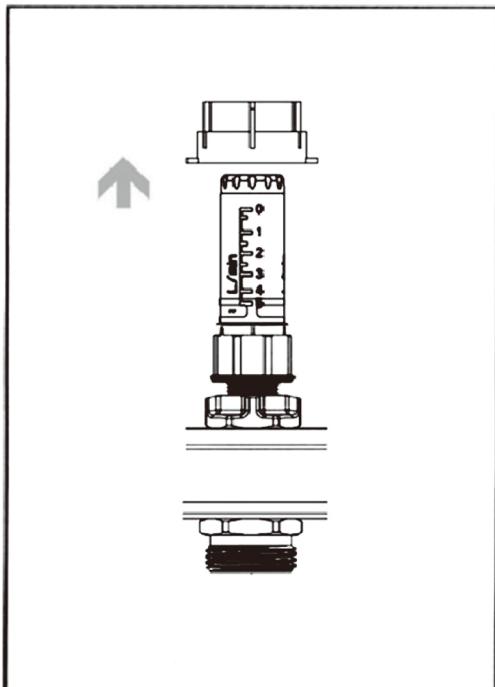
Advice For Installation



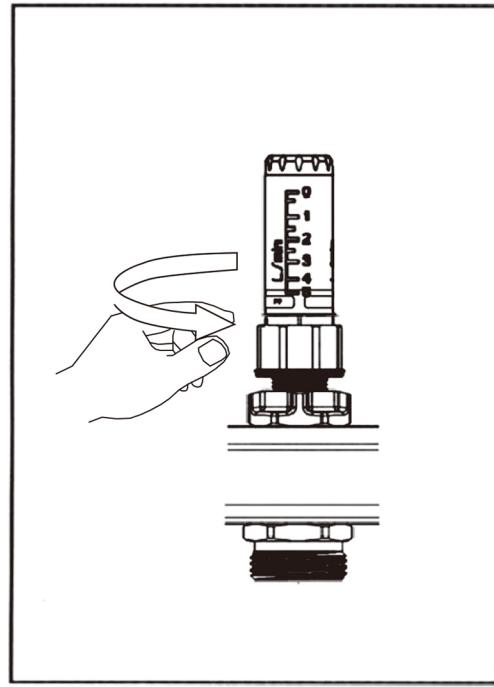
Make sure the pipe is cut at a clean, perpendicular angle, and that the pipe is installed on the manifold as straight as possible. This will ensure a leak-proof seal.

The compression connectors should be used in conjunction with the pipe as shown in the image above

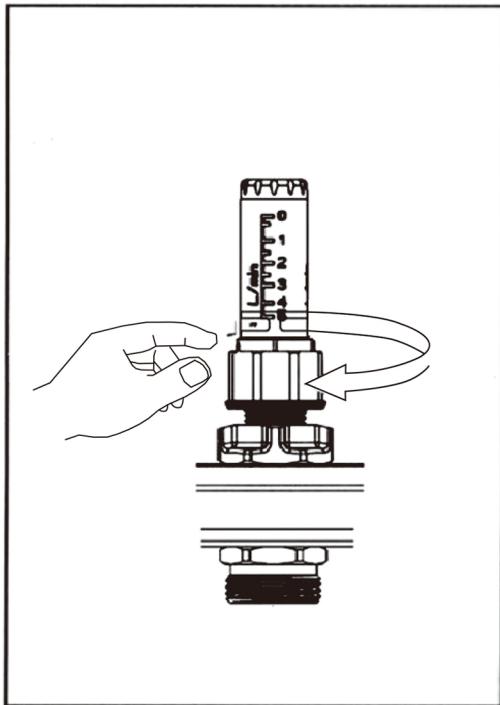
Operating The Flow Meters



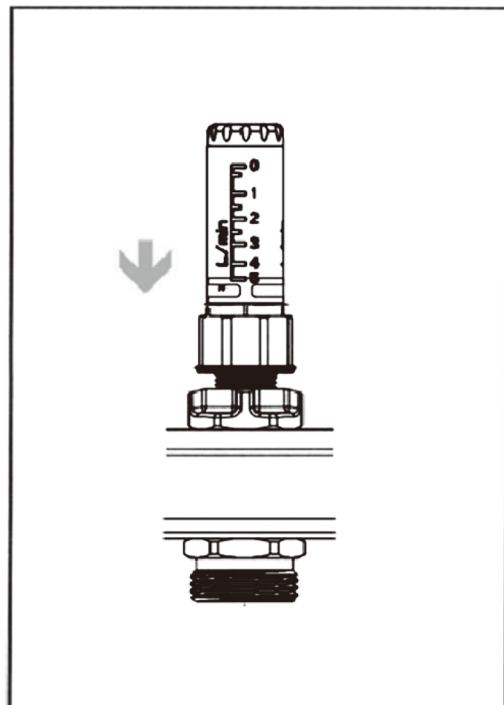
Remove the red flow meter cap



Rotate the flow meter counterclockwise
in order to increase the flow rate



Turn the flow meter clockwise to
decrease the flow rate

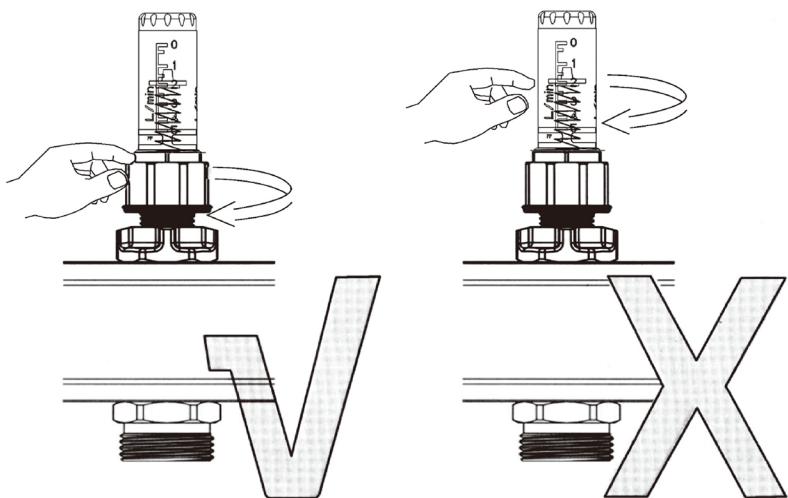


Replace the red cap on the flow meter to
the locked position

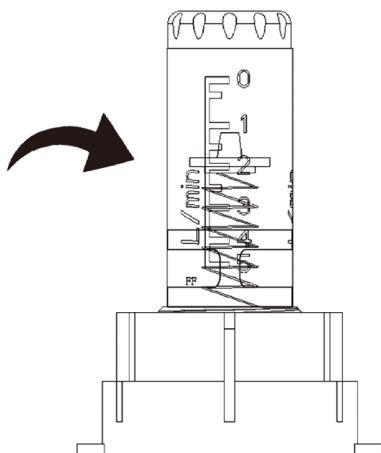
Understanding The Flow Meter Readings

Warning

- Do not hold the flow meter by the clear top part when turning to adjust flow rate.
- It is recommended that you do not rotate the knob anti-clockwise more than 3 full rotations, or else the red indicator disk will be out of range when the system is pressurized.



The flow rate is determined by the placement of the red indicator disk. As demonstrated in the image alongside, the corresponding loop has a flow rate of 2 L/min.

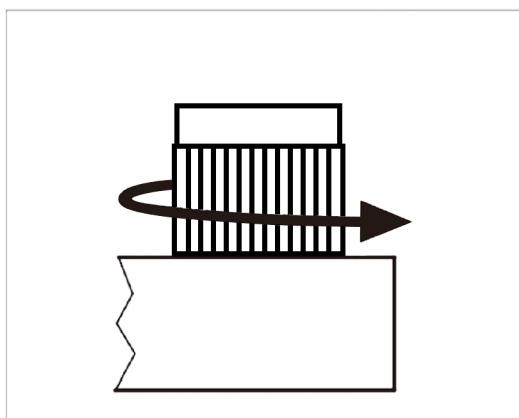


Testing The System Pressure

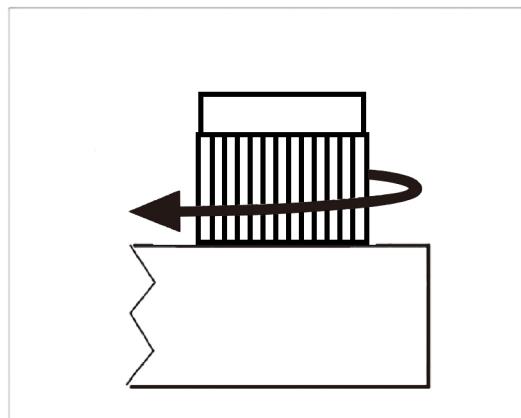
To pressure test your assembled manifold, please follow the steps below:

1. Make sure all the pipe loops are connected and tightened.
2. Check that the air purge valve and the pressure gauge set are closed and hooked up.
3. Connect the Pressure Test Kit to the Supply side, where the air purge valve normally connects into.
4. Apply water to the Pressure Test Kit from the Schrader valve on the side of the gauge.
5. Pressurize your system to 3-5.5BAR.
6. If possible, allow the system to sit overnight but for no less than a recommended 2 hours.
7. Check for any possible pressure drop in the system. The pressure gauge may fluctuate between 0.3-0.6 BAR due to atmospheric changes.
8. However, if the pressure reaches 0 BAR, this would indicate that there is a leak somewhere within your system.

Gate Valve Adjustments and Actuators



Rotate the gate valve counter-clockwise to open the valve



Rotate the gate valve clockwise to close the valve

Installing Actuators:

To remove the valve cap simply rotate the base of the valve anti-clockwise. Once the valve cap is removed, you are then able to attach a Thermostatic Actuator in order to automate your valves and the system.

