

Manifolds & spares

JGUFHMAN2E: JG Underfloor Stainless Steel 2 Port UFH Manifold

JGUFHMAN3E: JG Underfloor Stainless Steel 3 Port UFH Manifold

JGUFHMAN4E: JG Underfloor Stainless Steel 4 Port UFH Manifold

JGUFHMAN5E: JG Underfloor Stainless Steel 5 Port UFH Manifold

JGUFHMAN6E: JG Underfloor Stainless Steel 6 Port UFH Manifold

JGUFHMAN7E: JG Underfloor Stainless Steel 7 Port UFH Manifold

JGUFHMAN8E: JG Underfloor Stainless Steel 8 Port UFH Manifold

JGUFHMAN9E: JG Underfloor Stainless Steel 9 Port UFH Manifold

JGUFHMAN10E: JG Underfloor Stainless Steel 10 Port UFH Manifold

JGUFHMAN11E: JG Underfloor Stainless Steel 11 Port UFH Manifold

JGUFHMAN12E: JG Underfloor Stainless Steel 12 Port UFH Manifold

MKIT12: JG Underfloor Euroconus Fitting 16 x 2.0mm

MKIT07: JG Underfloor Manifold Ball Valves - Red and Blue (pair)

MKIT08: JG Underfloor Manifold Ball Valves Temperature Gauges (pair)

MKIT13: JG Underfloor Pressure Gauge & Bush

MKIT16: JG Underfloor Euroconus Fitting 15 x 2.0mm

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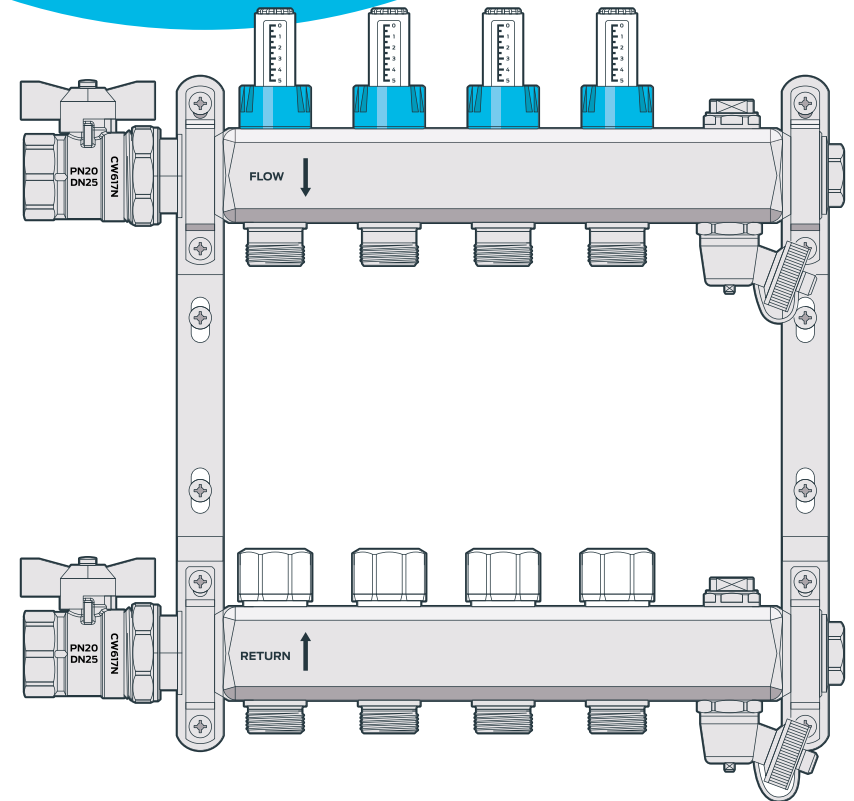
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ZINS453003/0425



Underfloor Heating Manifold Kits

Installation and maintenance instructions



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John Guest

The John Guest Group has a long established reputation as a world leading manufacturer of push-fit fittings, tube and other fluid control products. A reputation built on producing consistently high quality products with an ongoing commitment to value engineering and product development.

General information

The JG UFH manifold kit includes flow and return manifold bars that come pre-assembled to installation brackets are supplied with ball valves, manual or automatic air vents, filling/drain points, wall mounting plugs, screws, and identity labels for each zone.

Materials & specifications

Usual working temperature:	82°C
Maximum working pressure:	6 Bar
Maximum working temperature:	95°C (short term malfunction at 120°C)
Maximum test pressure:	10 Bar
Media:	Water with corrosion inhibitors
Manifold body:	304 stainless steel
Isolating valve body:	Nickel plated brass
Drain valve/air vent:	Nickel plated brass
Internal seals:	EPDM
Bracket:	Zinc plated mild steel

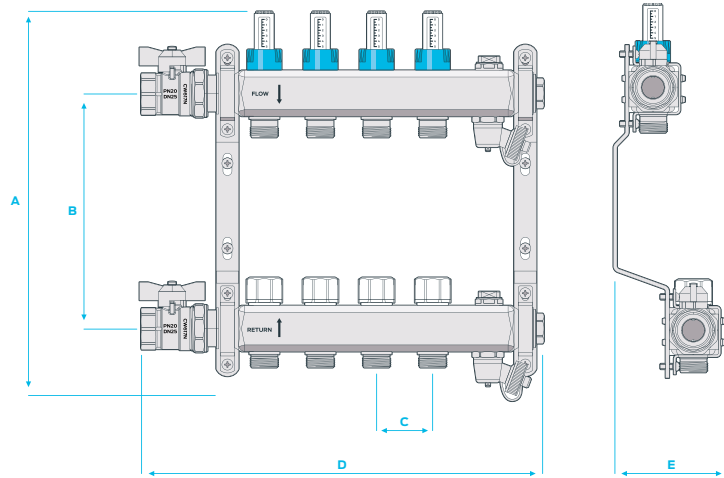
Flow meters with isolation

Maximum static pressure:	6 Bar
Maximum temperature:	105°C (malfunction at 120°C)
Media:	Water with corrosion inhibitors
Flow rate range:	0-5 LPM
Connection fitting:	Nickel plated brass
O-Ring seals:	EPDM
Spring:	Stainless steel
Cover cap:	ABS
Regulator window:	PA

Circuit control valve

Maximum static pressure:	10 Bar
Maximum temperature:	95°C (short term malfunction at 120°C)
Stroke:	3mm
Media:	Water with corrosion inhibitors
Connection fitting:	Nickel plated brass
O-Ring seals:	EPDM
Washer:	EPDM
Spindle:	Stainless steel
Spring:	Stainless steel
Cover cap:	PA

Dimensions



No. of circuits	A	B	C	D	E
2	346	210	50	262	99
3	346	210	50	312	99
4	346	210	50	362	99
5	346	210	50	412	99
6	346	210	50	462	99
7	346	210	50	512	99
8	346	210	50	562	99
9	346	210	50	612	99
10	346	210	50	662	99
11	346	210	50	712	99
12	346	210	50	762	99

All dimensions are shown in mm unless otherwise stated.

Pack contents

Before commencing the installation, please check that all the UFH manifold kit components are in the box.

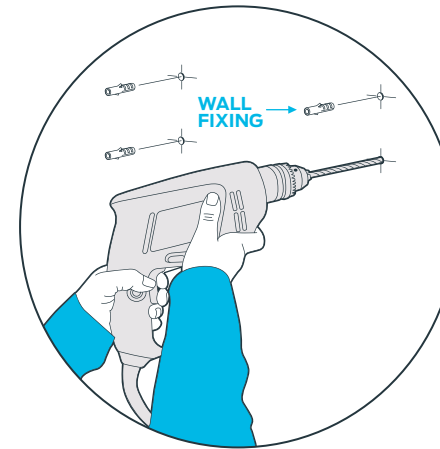
The kit should include:

- One flow and one return manifold with euroconus connections pre-installed on wall mounting brackets.
- One 1" red union type isolating ball valve
- One 1" blue union type isolating ball valve
- One 1" end connection with integral manual air vent
- Four fibre seals
- One 1" end connection with manual/automatic air vent and blue handle filling point.
- Two manual vent keys
- One sheet of identity stickers
- Wall plugs & screws
- Instruction booklet

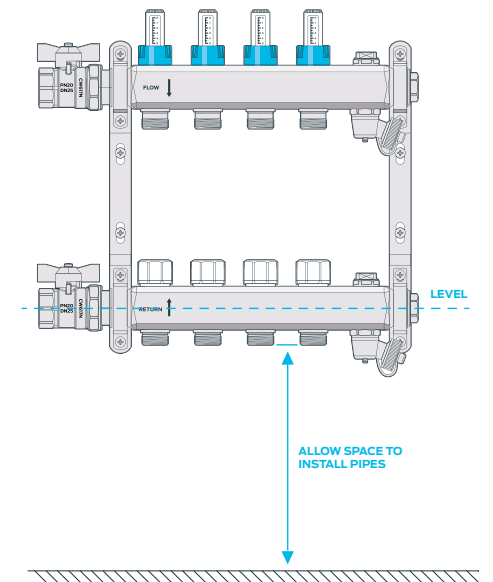
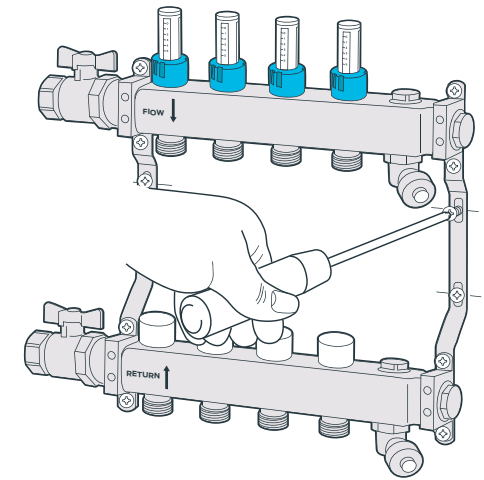
Note: Euroconus fittings are not supplied, and therefore should be obtained separately. See page 8 for further details on these fittings, along with spares and other accessories.

Installation

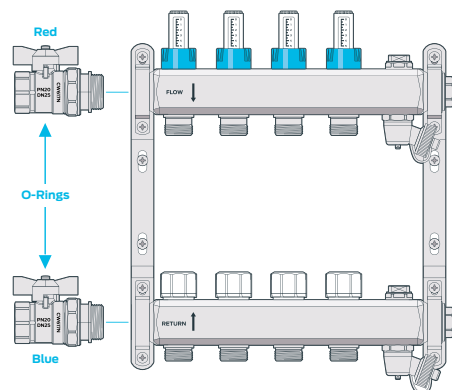
- 1 Use the screws and plugs provided to mount the pre-assembled flow and return manifold assembly to the wall (please ensure that the screws and plugs provided are appropriate for your wall construction, if not alternative suitable fixings should be used).



- 2 Make sure the manifold is level and high enough so that the pipes can be installed easily.

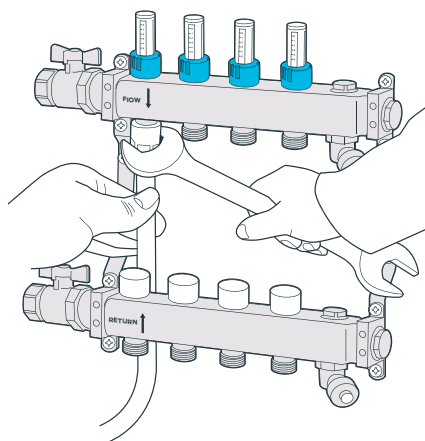


- 3 Fit the blue handled 1" union ball valve to the return manifold and the red handled 1" union ball valve to the flow manifold using the fibre seals provided.

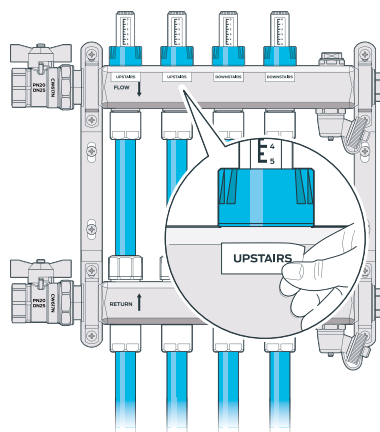


Note: the blanking plugs should be fitted on the drain/filling valve. The manifold is now ready to have the flow and return pipes and the UFHC temperature control unit attached.

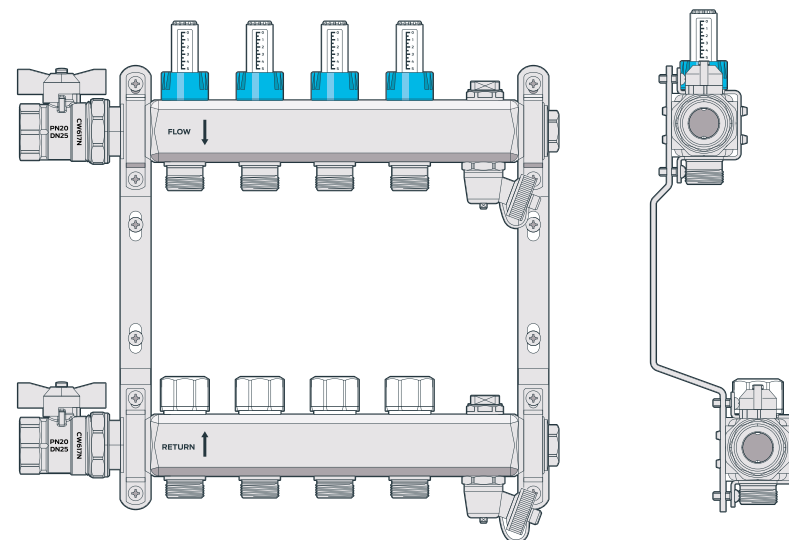
- 4 Ensure the UFH tube is cut squarely and is not damaged.



- 5 After the installation is complete the identity stickers can be used (if desired), to identify which zone each loop of pipe serves.



Commissioning



When initially filling the UFH heating system it is important to remove the air in the pipework. In order to do this a hose should be connected to the upperfill valve and the bottom valve should be opened to allow the water to be flushed into a bucket or drain.

First isolate all but one of the heating circuits by turning off the relevant decorators caps. Next flush out the open circuit with clean water until it runs freely from the bottom valve. Isolate this circuit and open the next one.

Repeat this until all circuits have been filled. Introduce any inhibitor or anti-freeze at this stage.

Note: The manifold flow meters are delivered in the closed position, these need to be opened for water to flow through the loops.

Flow rates should be set to correspond with the system design. This is achieved (with the pump running) by lifting the locking collars at the base of the flow indicators and twisting the indicator base until the desired flow is indicated, then re-fit the locking collars.

Do not twist the glass as this will completely remove the gauge, this is designed only to be removed for cleaning purposes, and when the flow has been isolated.

