

Compact thermoplastic manifold TP01

Description

The article TP01 is the Icma single molded manifold studied and produced for underfloor heating and cooling systems. The supply segment is equipped with a flow meter regulator valve.

By means of this regulator valve, every circuit flow rates can be regulated at the desired value with precision.

When necessary, this valve allows hermetic closing of single circuits. The return segment is equipped with built-in shut-off valves. Valves have been designed for application with electro-thermal control.

The manifold is full of a special inlet group including ball valve, thermometer and drain valve.

The manifold is easy to install in small spaces (box with 80 mm. depth) thanks to its extremely size.



Product line

Art.	Size	Outlets	Code
TP01	1"	2	87TP01PG05
TP01	1"	3	87TP01PH05
TP01	1"	4	87TP01PJ05
TP01	1"	5	87TP01PQ05
TP01	1"	6	87TP01PK05
TP01	1"	7	87TP01PR05
TP01	1"	8	87TP01PL05
TP01	1"	9	87TP01PS05
TP01	1"	10	87TP01PM05
TP01	1"	11	87TP01PT05
TP01	1"	12	87TP01PU05

Technical data

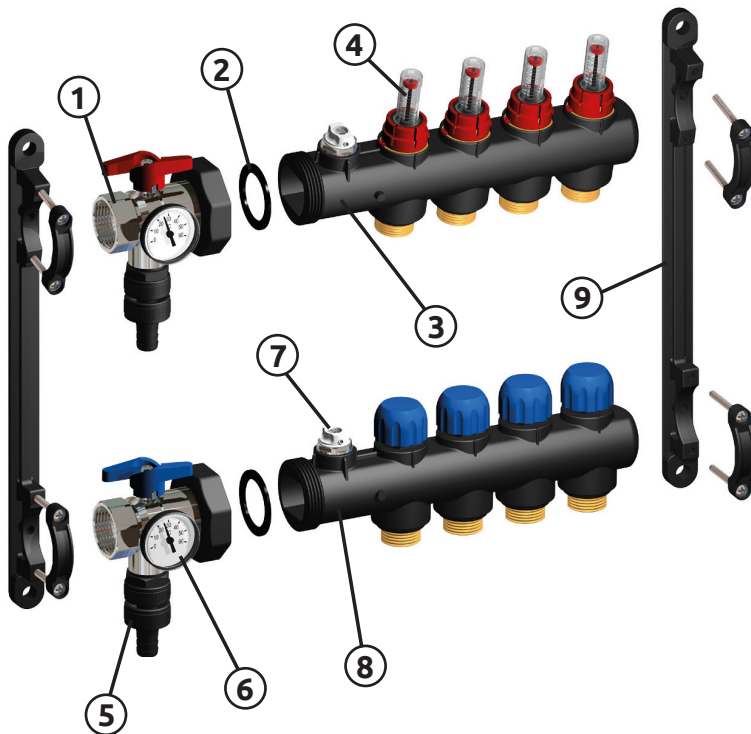
Max glycol percentage:	50%
Standard working pressure:	1,5 ÷ 2,5 bar
Max working pressure:	6 bar
Test pressure:	8 bar
Temperature range:	4 ÷ 70°C
Manifold connection:	1" F
Actuator connection:	M30x1,5 mm. only compatible with art. 977, art. 980 (normally open version).
Outlets connection:	3/4" M Euroconus
Centers distance:	45 mm.
Box depth:	80 mm.
Flowmeter range:	0 - 5 L/min

Main advantages

- Anti-condensation
- Resistant to chemical agent, UV rays, ozone, etc.
- Extremely low charge loss
- Instant visualization of the return circuit flow and relative regulation

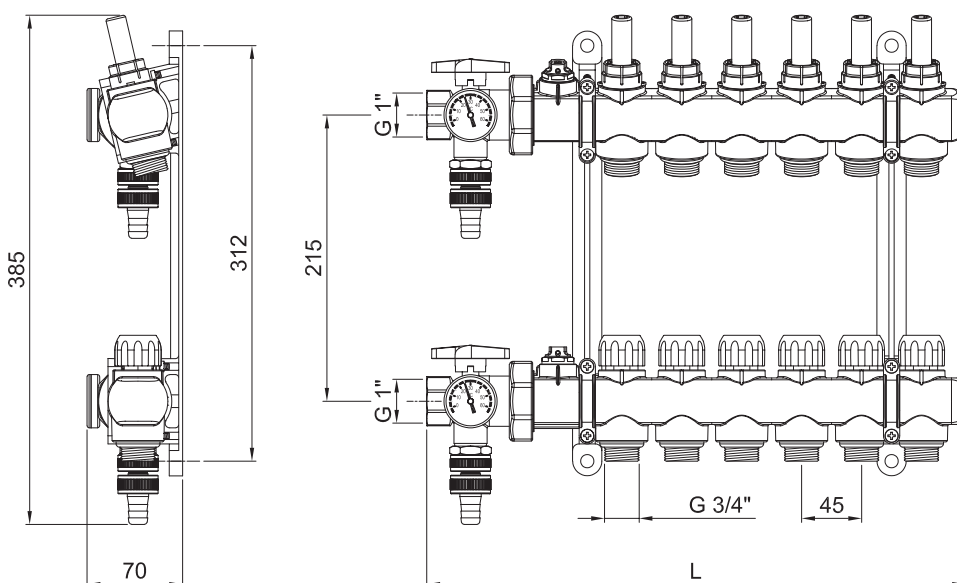
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Components



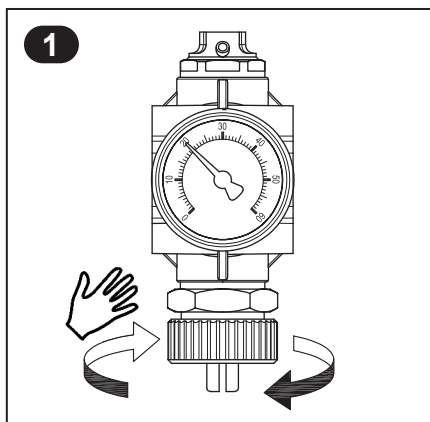
1. 1" Ball valve
2. Gasket
3. Supply segment
4. Flow meter
5. Drain valve
6. Thermometer
7. Air vent
8. Return segment
9. Bracket

Dimensions

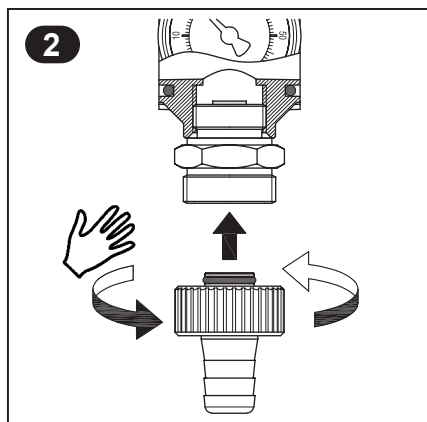


Outlets	L
2	225
3	270
4	315
5	360
6	405
7	450
8	495
9	540
10	585
11	630
12	675

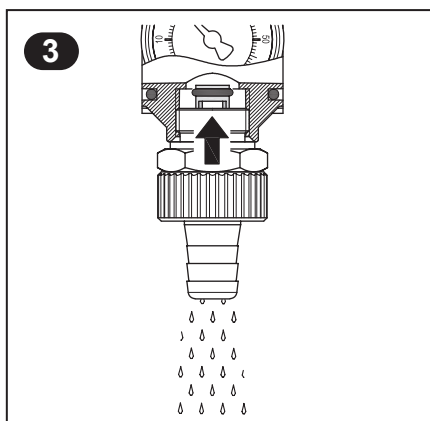
/ Use of loading/unloading tap



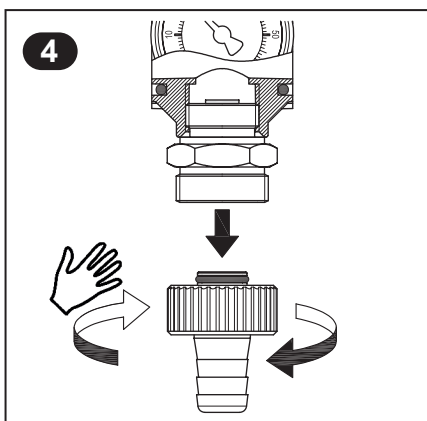
Unscrew the nut.



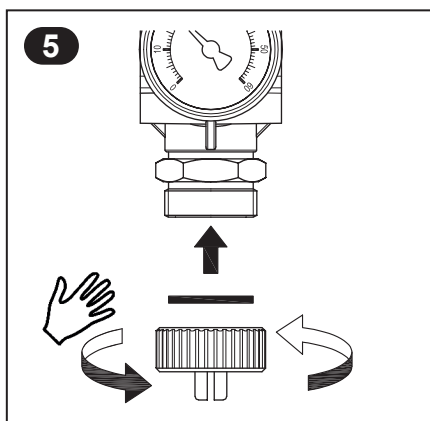
Screw the hose holder.



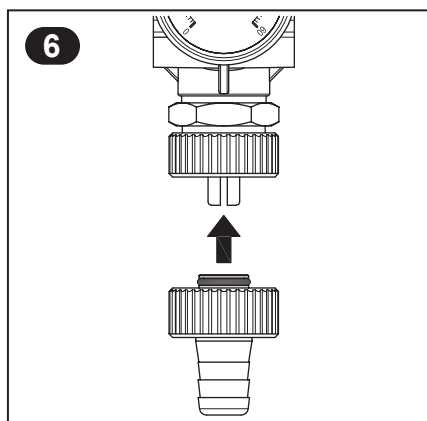
By screwing the hose holder, the interception shutter will open allowing loading/unloading.



Once loading/unloading operations are completed, the tap will close by unscrewing the hose holder.



Screw the nut back on, making sure that the flat gasket is on the inside.



Fasten the hose holder on the nut for future use.



ONLY USE THE SUPPLIED HOSE HOLDER FOR THESE OPERATIONS.

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/ Spare parts

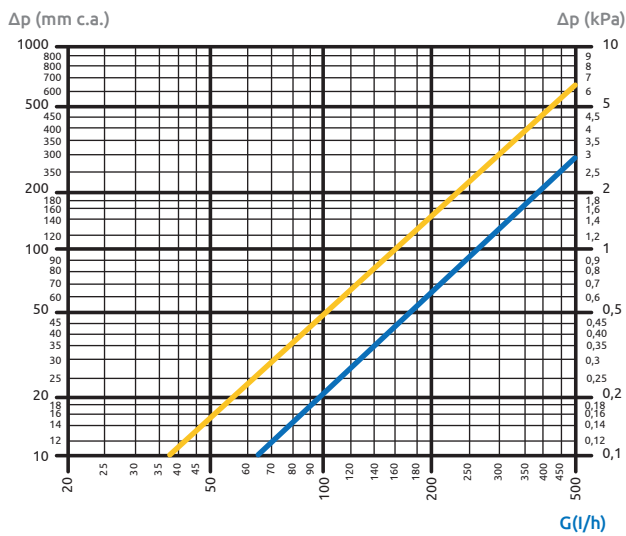


Flowmeter

Code	Size	Measuring range
RG1TP01AE06	1"	0-5 l/min

/ Pressure loss diagrams

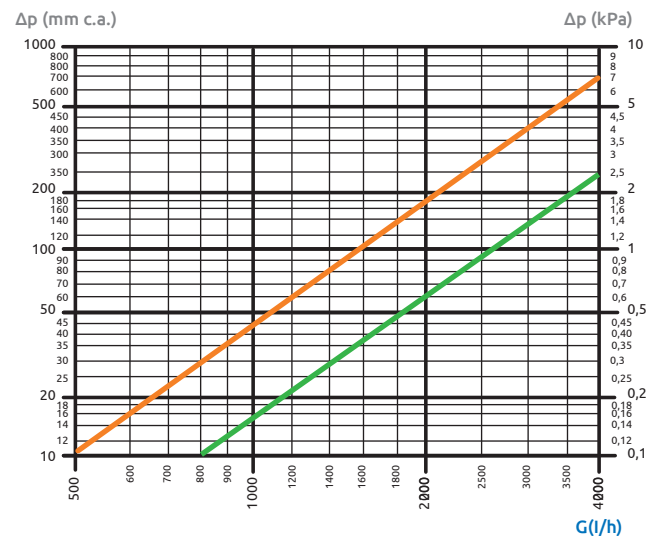
CONNECTION DIAGRAM



$K_v = m^3/h \text{ flow} / 1 \text{ bar loss of charge}$

	K_v
● SUPPLY LOOP TOTALLY OPEN	1,8
● RETURN LOOP TOTALLY OPEN	2,6

MANIFOLD DIAGRAM



$K_v = m^3/h \text{ flow} / 1 \text{ bar loss of charge}$

	K_v
● 3÷6 MANIFOLD LOOPS TOTALLY OPEN	18
● 7÷12 MANIFOLD LOOPS TOTALLY OPEN	14,5