



DESCRIPTION

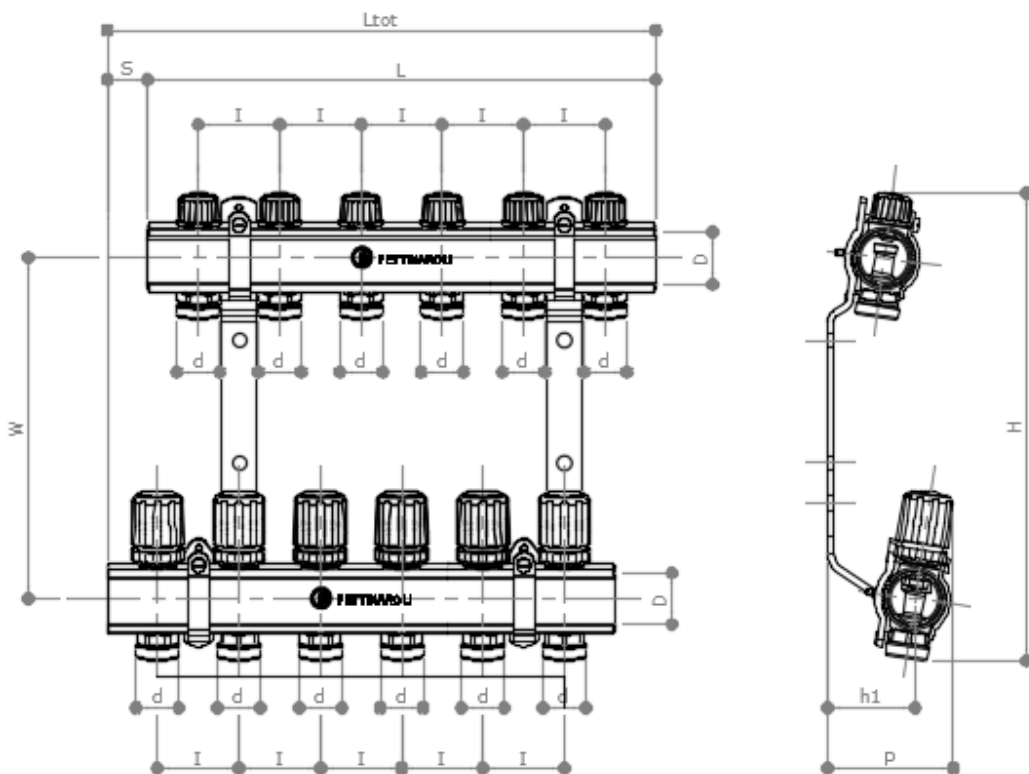
7035TDM

Pre-assembled brass manifold for underfloor heating systems and radiators systems. It is made by:

- Flow manifold with micrometric lockshield valves
- Return manifold with thermostatic valves
- Galvanized steel brackets
- Self-sticking labels for circuits identification

Fittings are not included and they have to be purchased according to pipe types.

DIMENSIONS



d = (3/4"x18mm)

I = 50 mm

S = 25 mm

W = 210 mm

D x d		1" x (3/4" x 18)		
N° exit	L (mm)	L _{tot} (mm)	Weight (kg)	Water content (l)
2	112	137	1,65	0,143
3	162	187	2,59	0,206
4	212	237	3,26	0,270
5	262	287	3,90	0,333
6	312	337	4,56	0,397
7	362	387	5,22	0,461
8	412	437	5,88	0,524
9	462	487	6,59	0,588
10	512	537	7,25	0,651
11	562	587	7,91	0,715
12	612	637	8,54	0,779
		H = 288 mm		
		h1 = 54 mm		
		P = 77 mm		

D x d		1 1/4" x (3/4" x 18)		
N° exit	L (mm)	L _{tot} (mm)	Weight (kg)	Water content (l)
2	117	142	1,65	0,241
3	167	192	2,59	0,348
4	217	242	3,26	0,456
5	267	292	3,90	0,563
6	317	342	4,56	0,671
7	367	392	5,22	0,778
8	417	442	5,88	0,886
9	467	492	6,59	0,993
10	517	542	7,25	1,101
11	567	592	7,91	1,208
12	617	642	8,54	1,316
		H = 296 mm		
		h1 = 59 mm		
		P = 85 mm		

COMPONENTS

Manifolds	CW614N (UNI EN 12164) CuZn39Pb3
Brackets	Galvanized steel
Handwheels	ABS
O-ring	EPDM – NBR
Springs	Stainless steel
Stems	AISI 303
Stuffing-box	CW614N (UNI EN 12164) CuZn39Pb3
Headwork	CW614N (UNI EN 12164) CuZn39Pb3
Shutter	CW614N (UNI EN 12164) CuZn39Pb3
Connections	CW614N (UNI EN 12164) CuZn39Pb3
Memory stop	CW614N (UNI EN 12164) CuZn39Pb3
Lockshield	CW614N (UNI EN 12164) CuZn39Pb3

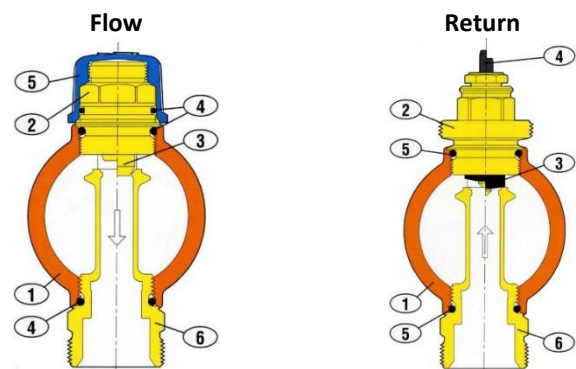
TECHNICAL SPECIFICATION

Max water temperature	90°C
Max pressure	10 bars
Max ambient temperature	50°C
Max differential pressure	0.8 bar

CONSTRUCTION DETAILS

The flow manifold has lockshield valves for the circuits balancing. These valves have a device, called “Memory stop”, which saves the opening degree of the lockshield valve. In case of maintenance, the device does not miss the first lockshield position closing and opening the shutter.

The return manifold is equipped with thermostatic headworks; by default, plastic handwheels control them. Also thermo-electric actuators can drive thermostatic valves.

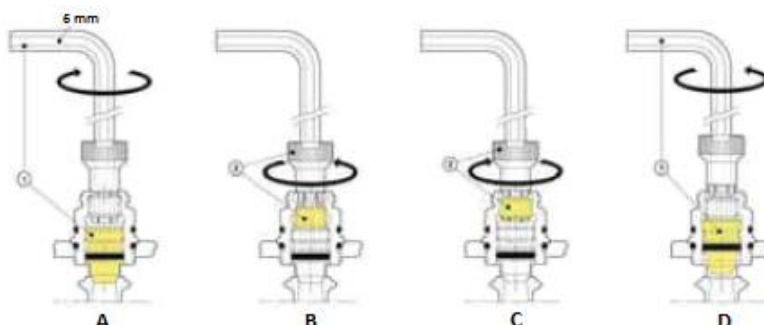


- | | |
|---------------|---------------|
| 1. Manifold | 1. Manifold |
| 2. Lockshield | 2. Headwork |
| 3. Shutter | 3. Shutter |
| 4. O-Rings | 4. Stem |
| 5. Cap | 5. O-Rings |
| 6. Connection | 6. Connection |

“MEMORY STOP” DEVICE OPERATION

The following operation has to be fulfilled by means of the key **0991B** shown beside. The key is not included in the packaging.

- Close the shutter throughout the 6 mm hexagonal key.
- Close the Memory Stop device tightening counterclockwise the socket wrench (left thread). Hold the shutter using the hexagonal key.
- According to the pressure drop diagram, tighten clockwise the socket wrench as many rounds as it is necessary to get suitable fluid-dynamic conditions (the thread of Memory Stop device has the same pitch of the shutter thread).
- Unscrew the shutter all the way up.



APPLICATION FIELD

The distribution manifold Pettinaroli **7035TDM** is widely used for both underfloor heating and radiator systems installation.

The thermostatic headworks placed on the return manifold can fit 230 V thermo-electric actuators (for example **A54202** or **A54204**) or 24 V ones (for example **A54402** or **A54404**). Those devices can managed the room temperature if room thermostats control them.

PRESSURE DROP DIAGRAM

The pressure drop diagram beside has been got keeping the thermostatic valves completely open. The flow rate and the pressure drop has been calculated according to the setting of the micrometric lockshield valve. The table below summarizes the Kv values in function of lockshield valve turns starting from the **TOTAL OPEN** position.

Turns	0.25	0.5	0.75	1	1.5	2	3	T.O.
Kv	0.1	0.26	0.37	0.57	0.9	1.2	1.45	1.52

T.O.: TOTAL OPEN

