



R553D

Description

The R553D preassembled manifold consists of:

- 1 delivery manifold with balancing lockshield valves with mechanical memory.
- 1 return manifold with interception valves with manual handwheel, suitable for electro-thermal command.
- R588 metal supports.
- Set of adhesive labels for identifying the various circuits.
- 1 spanner R558.

Delivery manifold with balancing lockshield valves

The delivery manifold consists of a drawn brass bar in a special alloy, containing a balancing lockshield valve with mechanical memory for each circuit so that the calibration position in each one can be identified and maintained, even in the case of total interception. The mechanical memory takes the form of a specific ring which, when regulated with the R558 spanner, limits the maximum opening of the lockshield valve to the value selected during the balancing phase.

To make the correct adjustment, fully open the metal ring using the screwdriver part of the R558 spanner, then close the lockshield valve fully down using the hexagonal part of the spanner. Open the valve by the number of rotations determined via the calibration diagrams, then tighten the memory ring as far as it will go on the valve.

Return manifold with interception valves with manual handwheel

The return manifold is equipped with interception valves with a manual handwheel, suitable for electro-thermal command via the electro-thermal actuators R478, R478M (normally open) and R473, R473M (normally closed). The actuators are assembled by releasing the handwheel on the manifolds and thereby freeing the valve connection.

Technical data

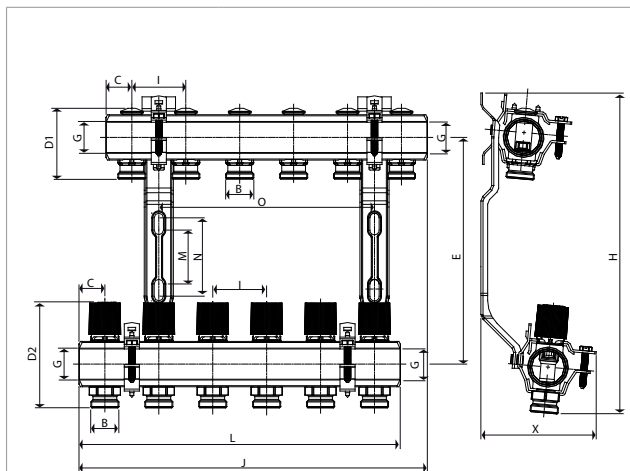
- Temperature range 5÷110 °C
- Max. working pressure 10 bar.
- EPDM seals
- Centre distance between the outflow points 50 mm

Installation

The rules of good practice for manifold installation include the use of ball valves with a pipe union for disconnecting the system, along with any devices that may be needed for system management (zone valves, air vent valves, drain taps, thermostats) or assembly (reduction units, caps and boxes).

The R553D preassembled manifolds are usually combined with R554D intermediate fittings for measuring the water temperature, automatically purging the air, and emptying the manifold. The drain taps on the fittings are also used to fill the systems and perform pressurised seal tests. To measure the delivery and return temperature of the individual circuits, you can use the specific R531 fittings (on which R540 3/8" thermometers are assembled). This solution is particularly suitable in the case of radiant panel applications.

Dimensions



R553D	1" x 18	1 1/4" x 18
G	1" F	1 1/4" F
B	18	18
I [mm]	50	50
C [mm]	24	24
D1 [mm]	66	75
D2 [mm]	96-101	110-115
E [mm]	213	213
M [mm]	50	50
N [mm]	73	73
X [mm]	108	108
H [mm]	297	297

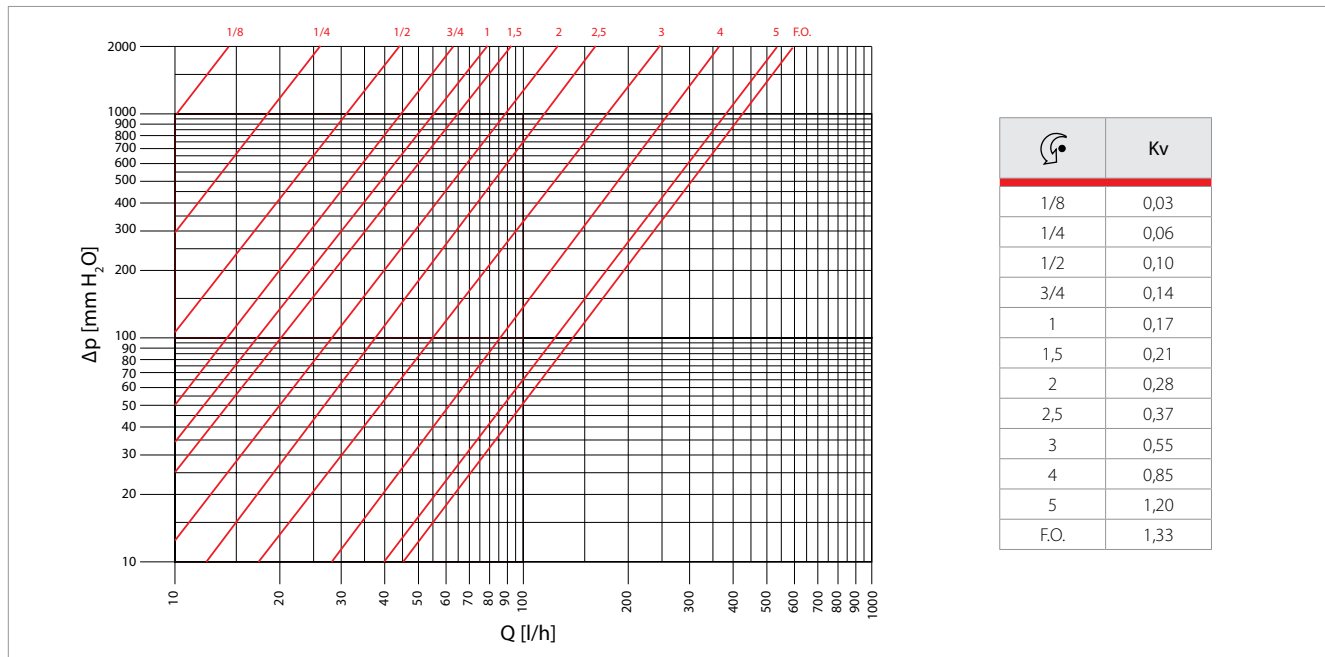
Outlets	2	3	4	5	6	7	8	9	10	11	12
L [mm]	98	148	198	248	298	348	398	448	498	548	598
O [mm]	/	/	100	150	200	250	300	350	400	450	500
J [mm]	123	173	223	273	323	373	423	473	523	573	623
Cabinet R500, R501, R502, R509 recommended (*)	Type A	Type A	Type B	Type B	Type B	Type B	Type C	Type C	Type C	Type D	Type D

* taking into account the dimensions due to the R554D intermediate fitting and the R259D ball valve

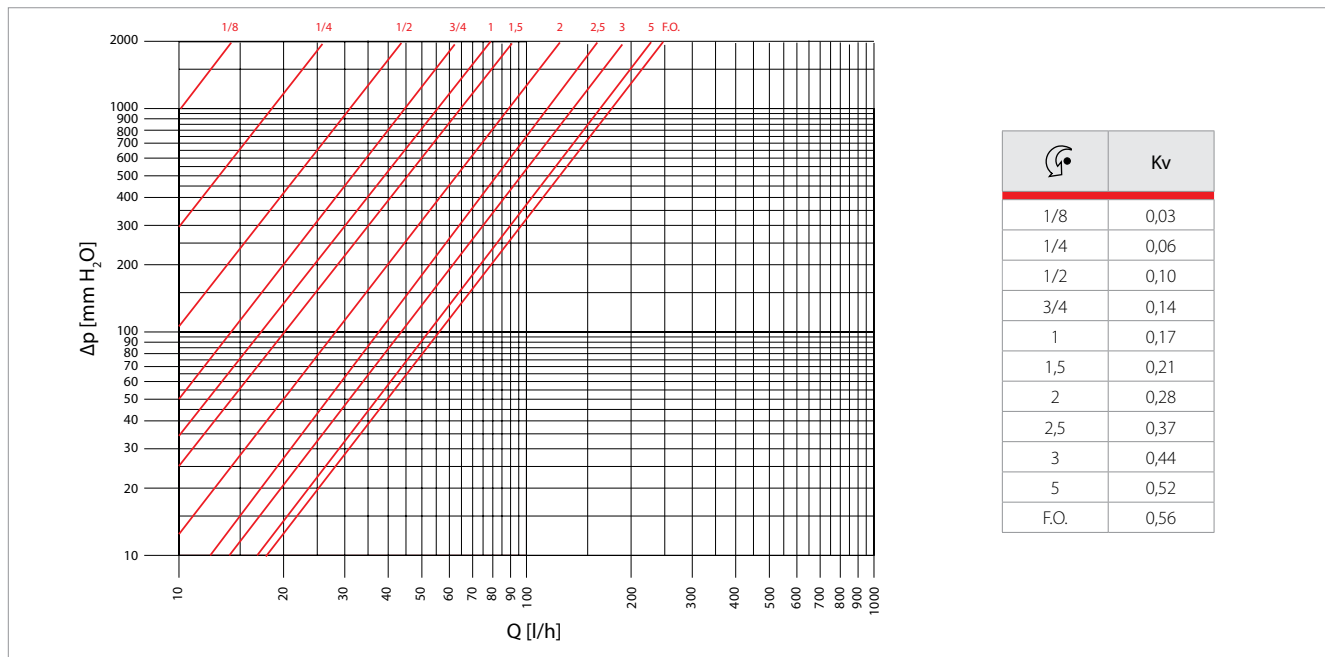


Losses of pressure

Balancing on the lockshield valve of the delivery manifold in the manual versions (with the return manifold handwheel fully open) or with electro-thermal actuators (R473, R473M, R478, R478M range) assembled.



Balancing on the lockshield of the delivery manifold in the thermostat-controlled version with R463 thermostat-controlled actuators assembled, in opening conditions corresponding to $\Delta T = 2$ K.



Product specifications

R553D

Preassembled manifold for air-conditioning systems - made of brass. Centre distance between the outflow points 50 mm. Temperature range 5-110 °C. Max. working pressure 10 bar. Consisting of: 1 delivery manifold with balancing lockshield valves with mechanical memory. 1 return manifold with interception valves with manual handwheel, suitable for electro-thermal command. EPDM seals. R588 metal supports. Set of adhesive labels for identifying the various circuits. 1 spanner R558. Available with connection for base 18 adapters R178, R179, R179AM.

Additional information

For further information, visit the website www.giacomini.com or contact the technical service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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