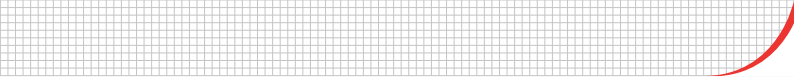


**PRE-ASSEMBLED MANIFOLD WITH FLOW INDICATOR  
AND SOPHISTICATED ADJUSTMENT**

**R553F**

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- ▶ 1. USE

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  - ▶ 1. WORKING

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  - ▶ 2. TECHNICAL DATA

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  - ▶ 3. DIMENSIONS

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  - ▶ 4. ACCESSORIES

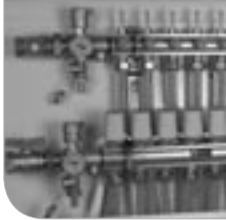
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  - ▶ 5. HYDRAULIC DATA

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  - ▶ 5. PRODUCT SPECIFICATIONS

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## R553F

## PRE-ASSEMBLED MANIFOLD WITH FLOW INDICATOR AND SOPHISTICATED ADJUSTMENT

### ► Use

Balancing circuits correctly to provide comfort is a problem that can arise in a house both with a Radiant Panel System or a Radiator System. It's really important that the installer proceeds with the balancing of every circuit based on the project requirements, so that every circuit has the correct flow.

In these cases the Giacomini Manifold **R553F** represents a very simple and extremely useful way to balance a system because it has flow indicators and sophisticated adjustment.

With the recently introduced Manifold **R553F** is really easy for the installer to SEE if he is balancing correctly, so the possibility of making mistakes is far less than when using other manifolds.



### ► Working

The manifold **R553F** comprises of:

- a return manifold **R553V** which has micrometric balancing valves with thermostatic option
- a flow manifold **R553M** which has flow indicators (0,5-5 l/min) and mechanical memory
- two metal brackets **R588**
- a set of labels for indicating the location of the circuits

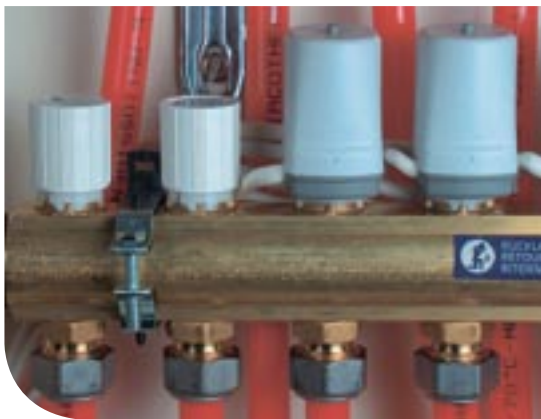
The **R553M** manifold is made from drawn brass bar and has a balancing lockshield valve with mechanical memory inside for setting and retaining the calibration of every circuit. The mechanical memory is an adjustable ring that can be regulated (by using key **R558**) to set the maximum opening of the lockshield to the project balancing value. To make the reading of the results easier there is a flow indicator that is graduated 0,5-5 l/h (30-300 l/h).



To make the adjustment the first step is the complete opening of the mechanical memory with the screwdriver part of the key **R558**. Then with the hexagonal part of the same key **R558** you must open the lockshield until the required value. After this you must close the mechanical memory with the screwdriver part of the key **R558**.

The return manifold **R553V** has micrometric balancing valves with thermostatic option to adjust and close the circuits by hand. Automatic temperature control for every room is possible by installing electrical actuator normally closed (**R473/R473M** series) or normally open (**R478/R478M** series) or thermostatic heads **R463** with remote sensor:

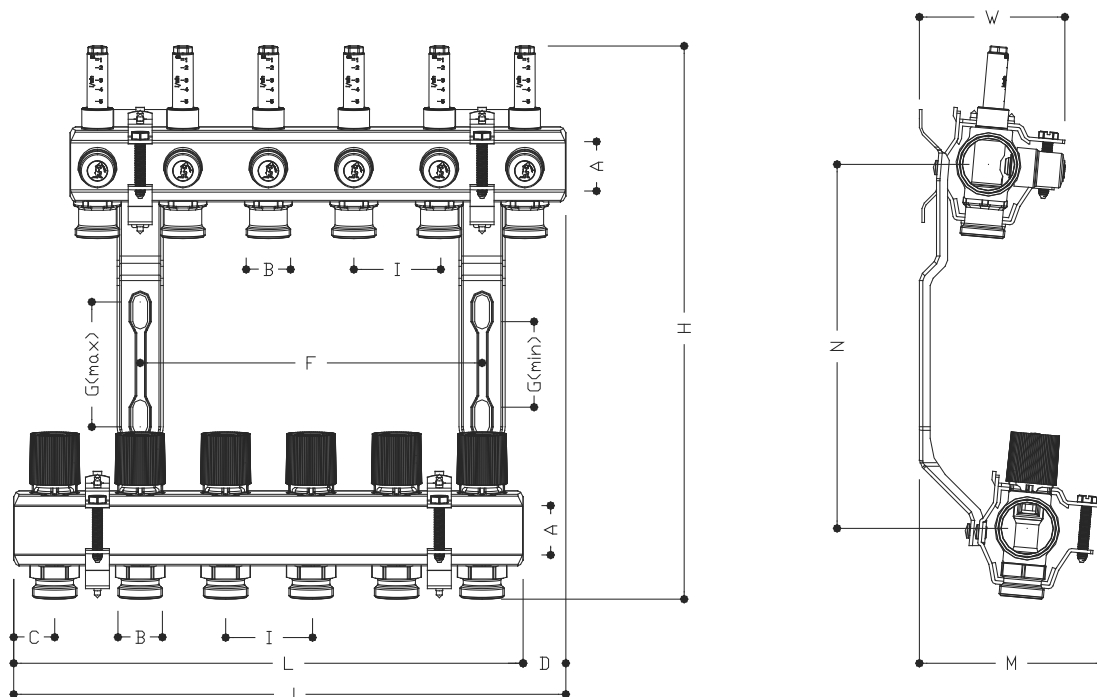
To install the electrical actuator you have to remove the micrometric valve by the manifold.



#### TECHNICAL DATA

Maximum water temperature	90°C
Maximum system pressure	1 MPa (10 bar)



**R553F****PRE-ASSEMBLED MANIFOLD WITH FLOW INDICATOR  
AND SOPHISTICATED ADJUSTMENT****- Dimensions**

A	B	C	D	E	G <sub>MIN</sub>	G <sub>MAX</sub>	H	I	M	N	W
1"	18	24	25	213	50	73	318	50	106	213	84

R553F	outlet numbers	F	L	J	Cabinet R500 or R502 or R509 (*)
R553FY002	2	-	98	123	type A
R553FY003	3	-	148	173	type A
R553FY004	4	96	198	223	type B
R553FY005	5	146	248	273	type B
R553FY006	6	196	298	323	type B
R553FY007	7	246	348	373	type B
R553FY008	8	296	398	423	type C
R553FY009	9	346	448	473	type C
R553FY010	10	396	498	523	type C
R553FY011	11	446	548	573	type D
R553FY012	12	496	598	623	type D

(\*) considering the dimensions due to the R554D intermediate fitting and R559D or R919 ball valves

► Accessories



**R553F** intermediate fittings can be combined with **R553F** pre-assembled manifolds, for measuring the water temperature, the automatic air discharge and manifold emptying, or **R554B** end fittings



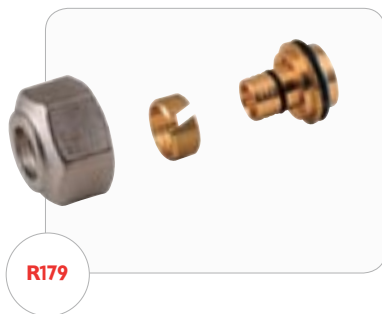
fitted with automatic air discharge and drain cock for the manifold discharge. The drain cocks are used also to fill the installations and effect tests of pressure tightness. In order to measure the delivery and return temperature of the single circuits, it is possible to use the appropriate **R531** fittings, where **R540** thermometer size 3/8" are assembled.

This solution is extremely convenient especially for radiant panel applications, where it's important to keep the water temperature under control.

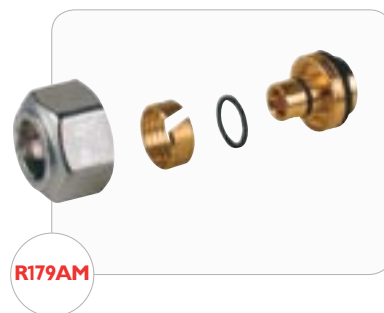
It's possible to combine manifold **R553F** with a wide range of components, such as ball valves, zone valves, plugs, reducers, cabinets, etc. To connect the pipes of the circuits there are various adaptors depending by the pipe's material.



**R178**

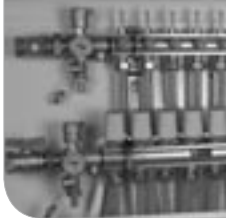


**R179**

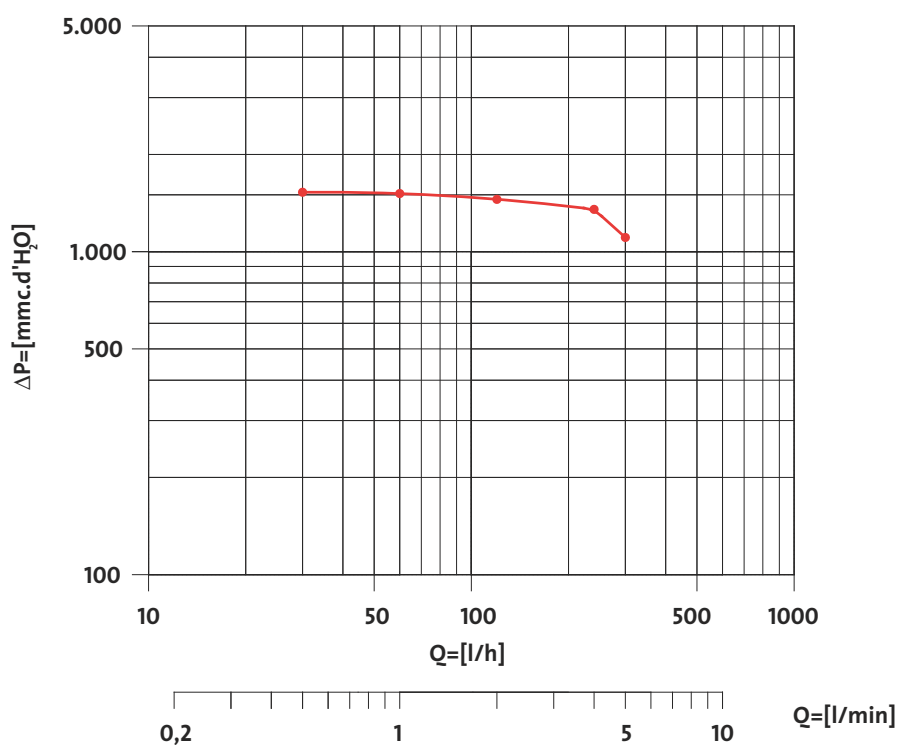


**R179AM**

For copper pipes use adaptors **R178**, for PE-X or Pb ones use adaptors **R179** and for PE-X/Al/PE-X multilayer pipes use adaptors **R179AM**.

**R553F**
**PRE-ASSEMBLED MANIFOLD WITH FLOW INDICATOR  
AND SOPHISTICATED ADJUSTMENT**
**► Hydraulic data**

Flow (l/min)	0,5	1	2	3	4	5
Flow (l/h)	30	60	120	180	240	300
Kv	0,08	0,15	0,33	0,48	0,66	0,90


**► Product specifications**

Pre-assembled manifold with flow indicators and possibility of circuit balancing. Able to connect from 2 to 12 circuits. Designed to connect electrical actuator normally closed or normally open or thermostatic heads. Outlets made for adaptors to connect copper, plastic or multilayer pipes. Maximum water temperature: 90°C. Maximum system pressure: 10 bar.



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