



R150M

Description

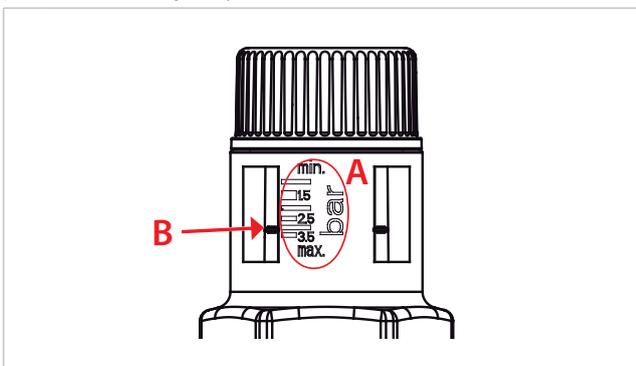
The R150M unit is a device to be installed on the water adduction piping of closed-circuit heating/cooling systems with automatic filling function.

Versions and product codes

Product code	Size	Version
R150MY003	1/2"M x 1/2"F	with pressure gauge
R150MY013	1/2"M x 1/2"F	without pressure gauge

Main features

• The R150M unit **optimizes operational times** enabling to preset the fluid pressure before filling the system.



Legend

A	Bar-graduated scale
B	Calibration indicator

- **Removable cartridge and filter** for easy cleaning and maintenance.
- **Anti-limestone function:** the stopper seal housing is made with a low friction coefficient synthetic material and stainless steel adjustment rod.
- **Pressure adjustment** with compensated housing.

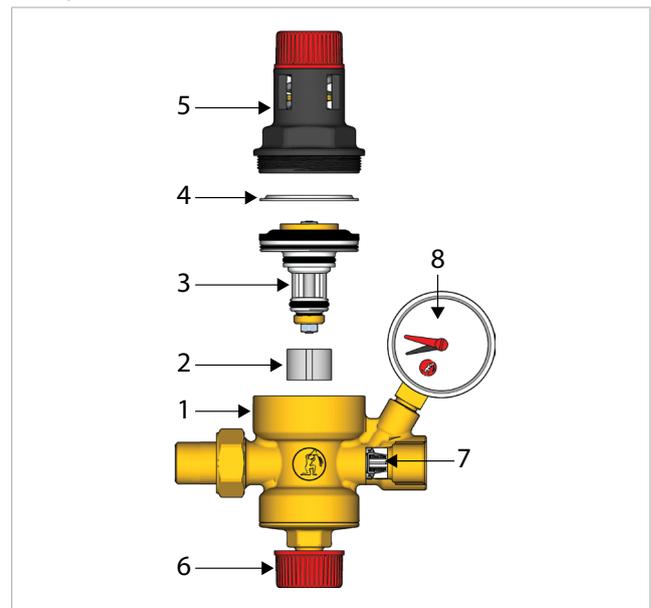
Technical data

- Fluid: water
- Temperature range: 5÷70 °C
- Inlet max. pressure: 16 bar
- Adjustment range: 0,3÷4 bar (preset calibration: 1,5 bar)
- Accuracy: ± 0,2 bar
- Filtering capacity: 300 µm
- Pressure gauge scale (only for R150MY003): 0÷4 bar
- Connections:
 - Inlet: 1/2"M with tail piece
 - Outlet: 1/2"F
 - Pressure gauge: 1/4"F

Materials

- Body: CW617N - UNI EN12165 brass
- Upper bonnet and red knobs: PA66 GF 20
- Adjustment stem: AISI304 stainless steel
- Gaskets: EPDM
- Cartridge: POM
- Filter: stainless steel

Components



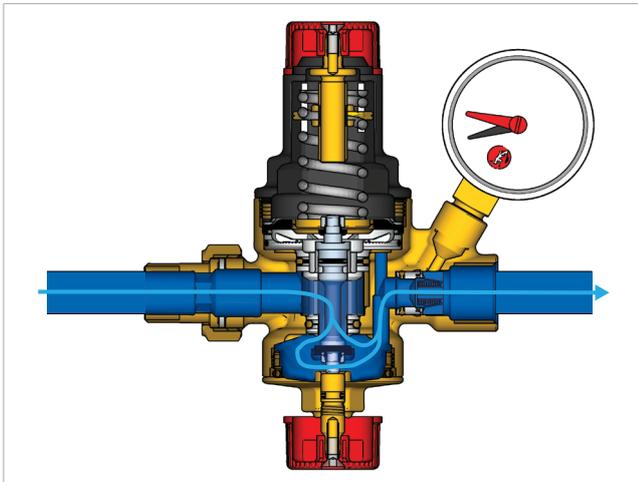
Legend

1	Filling group body
2	Filter
3	Cartridge
4	Anti-loosening ring
5	Upper bonnet with presetting scale
6	Shut-off valve
7	Check valve
8	Pressure gauge (only for R150MY003; plug for R150MY013)

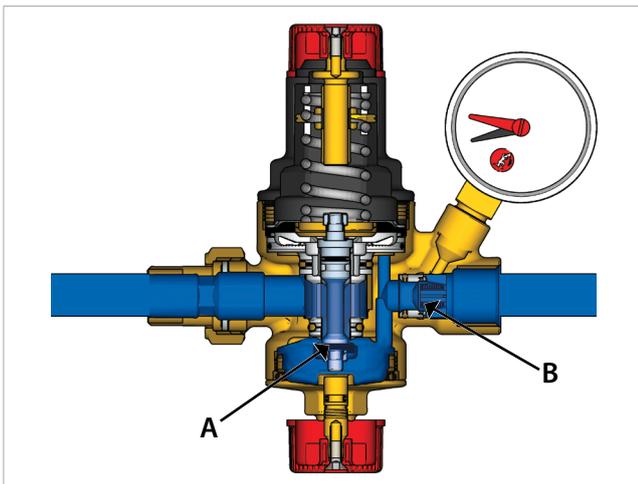


Operation

The water duct fluid enters the R150M filling unit and loads it up to the required pressure (calibration pressure).

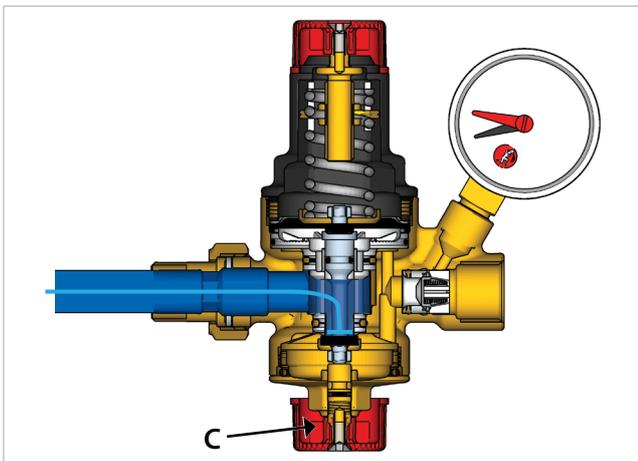


When the system reaches the desired pressure, the stopper (A) closes without letting in any fluid. The check valve (B) prevents the system water from flowing back to the main water ducts.



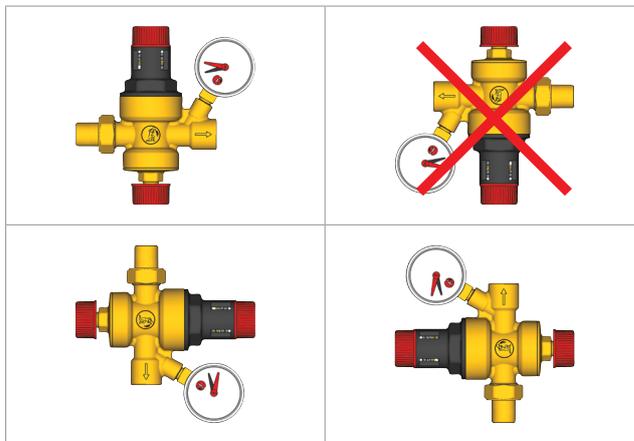
The R150M filling unit automatically reintegrates the installation water when the pressure drops below the calibration value, up to restoring the desired pressure.

The automatic filling function can be deactivated by closing the shut-off valve (C) completely.



Installation

The R150M filling unit can be installed both on vertical and horizontal pipes. The product cannot be installed upside down (pressure gauge connection downwards).



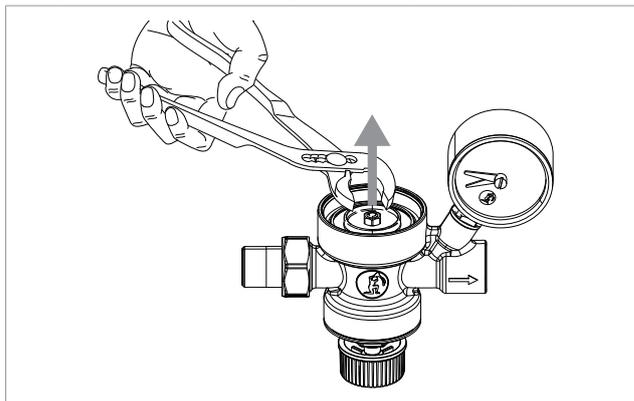
Warning.

We recommend installing an interception valve before the filling group to clean and service of the cartridge and filter.

Maintenance

To periodically clean and inspect or replace the entire cartridge carry out the steps described below:

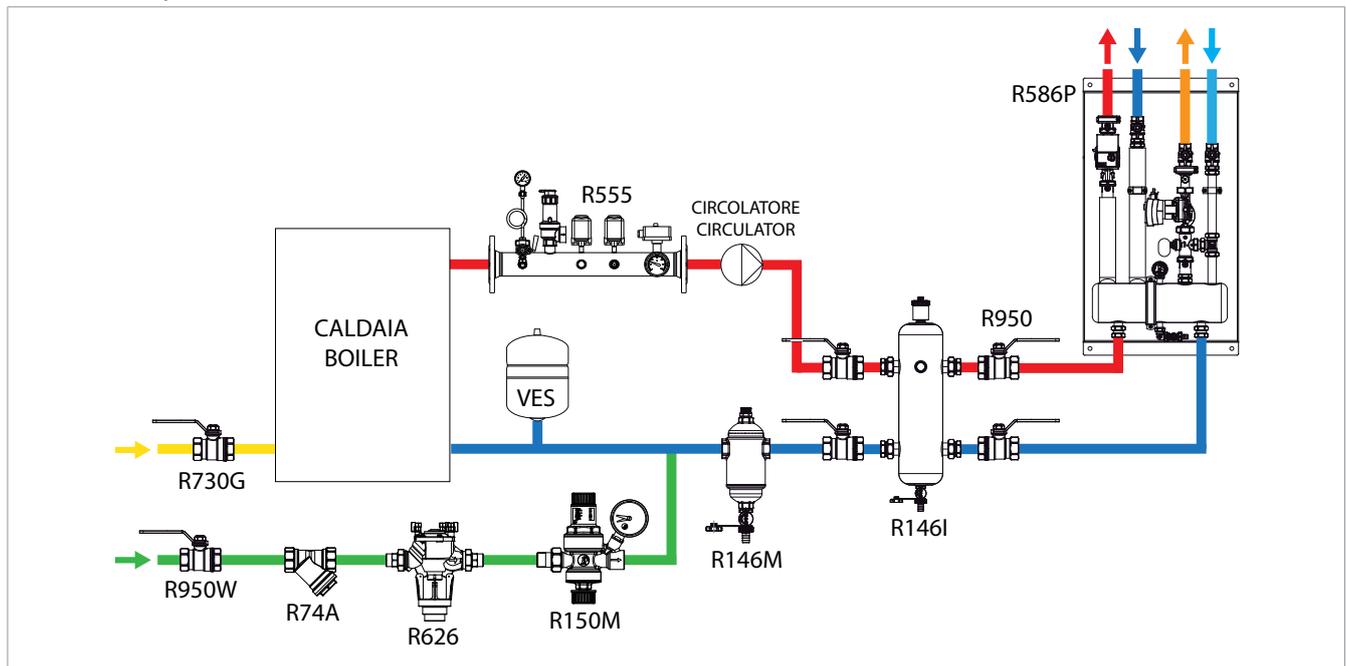
- 1) Intercept the unit (install an interception valve before the unit).
- 2) Set the calibration pressure on the minimum value (turn the adjustment knob in anti-clockwise direction).
- 3) Remove the upper bonnet with a 40 mm hexagonal wrench, making sure the spring and anti-loosening ring do not come out.
- 4) Close the shut-off valve all the way through to easily remove the cartridge.
- 5) Use pliers to remove the cartridge from the top to clean/replace it.



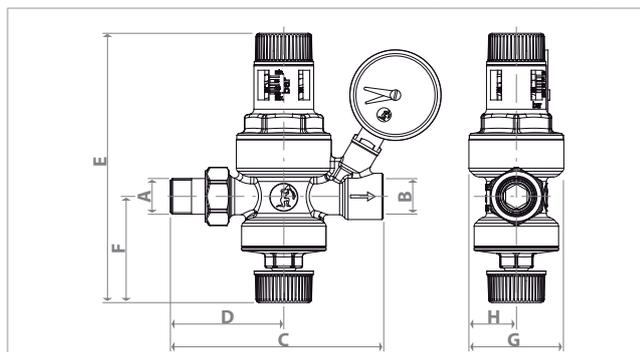
- 6) Remove the filter to clean/replace it.
- 7) Fully open the shut-off valve and reassemble the components in reverse order.
- 8) Re-calibrate the unit to the desired calibrated pressure.



Installation example



Dimensions

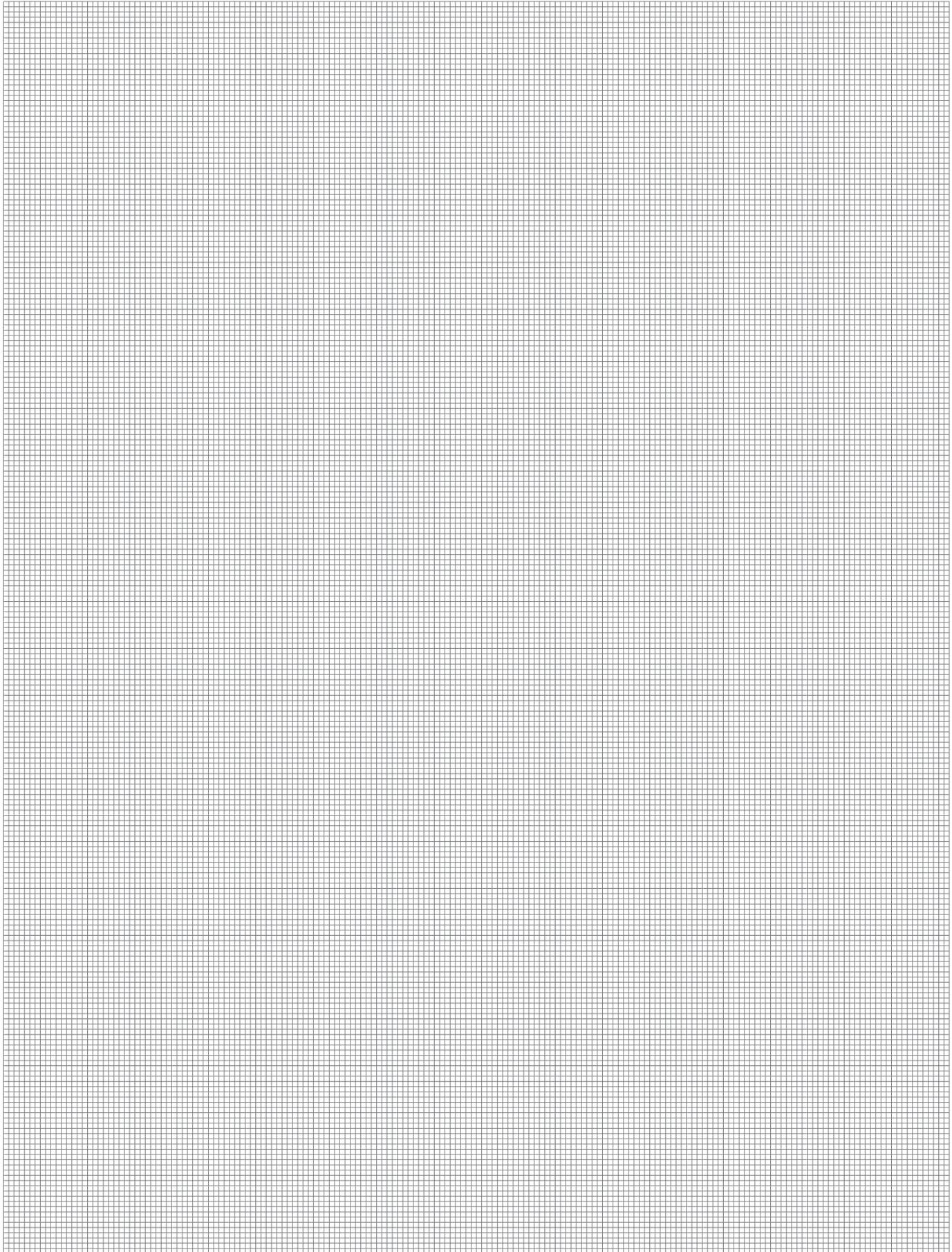


Product code	Version	A x B	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]
R150MY003	with pressure gauge	1/2"M x 1/2"F	121	64,5	154	61	54	27
R150MY013	without pressure gauge	1/2"M x 1/2"F	121	64,5	154	61	54	27

Product specifications

R150M

Automatic filling unit for installation on water adduction pipes of closed-circuit heating/cooling systems. UNI EN12165 - CW617N brass body. PA66 GF 20 upper bonnet. AISI304 stainless steel adjustment stem. EPDM gaskets. POM cartridge. Stainless steel filter. Possibility to preset the system fluid pressure. Removable cartridge and filter for easy cleaning and maintenance. Antilimestone function and compensated housing pressure adjustment. Fluid: water. Temperature range: 5÷70 °C. Inlet max. pressure: 16 bar. Adjustment range: 0,3÷4 bar (preset calibration: 1,5 bar). Accuracy: ± 0,2 bar. Pressure gauge scale (only for R150MY003): 0÷4 bar. Filtering capacity: 300 µm. Connections: inlet: 1/2"M with tail piece; outlet: 1/2"F; pressure gauge: 1/4"F.



Additional information

For additional information please check the website www.giacomini.com or contact the technical service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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Giacomini S.p.A. Via per Alzo, 39 - 28017 San Maurizio d'Opaglio (NO) Italy