



# R 150

**Filling valve  
for closed circuit heating system**

# GIACOMINI

Registered Firm BS 5750 Quality System Reg. n° FM 625

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## R 150 Giacomini filling valve

In the closed system, it is necessary to install a pressure reducing valve, which connects the heating system to the water supply and would allow the filling up to the pre-selected working pressure. Particularly important is the action of the group during the first stage of the starting of the system.

In this case, leaving the check valve open, it supplies automatically water into the system little by little while air is vented through the separation and vent group and through the air vent valves installed on the high points of the system or on the heating elements. When the system is working, the valve has to remain shut.

The manometer installed on one of the two connections will report any loss of pressure into the system and will permit

a quick location of possible leakages. By closing the valve built into the base of the unit a full flow shut-off is achieved, the valve may be used on hot or cold temperature system with inlet pressures up to 200 P.S.I.

### IMPORTANT NOTE

As with any pressure reducing device, actual system static pressure is poited out only when is no flow into the system. For this reason it is recommended that another shut-off valve besides the one built into the valve is added to carry out proper setting of the device.

After setting of the valve is completed both valves should be left open.

This should be done to ensure proper hydrodynamical setting of the system pressure.

### Description



Inlet pressure up to 10 bar.

Water supply connection: 1/2" Gas Female (R 150) with tail-piece of 1/2" Gas Male (R 150/1).

System connection: 1/2" Gas Female. There are also available 2 exact opposite connections of 1/4" Gas for the manometer which takes the

system-pressure.

The connection, which is not used for the manometer is furnished with cap. Instead of the cap it is possible to install a drain-cock which makes easier the setting control of the pressure-reducing.

### Features

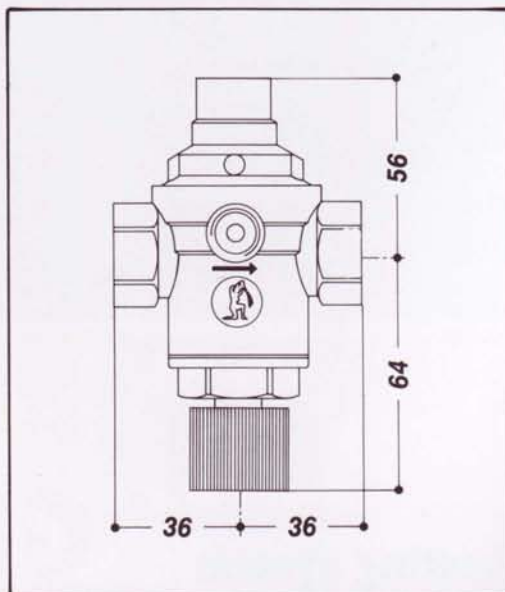
Body, bonnets and all the setting travelling gear are in forged brass OT 58 UNI 5705-65.

The parts in touch with water are in stainless steel to avoid corrosion or crusts.

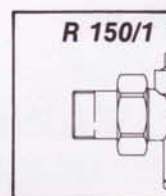
### Materials



R 150



### Dimensions

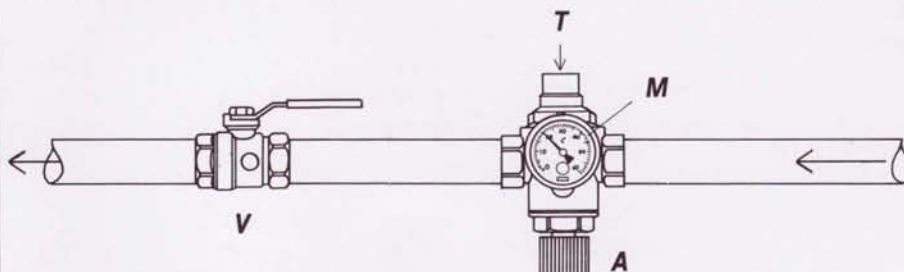


R 150/1

## R 150 Giacomini filling valve



System



Installation  
and setting

For pressure setting, a shut off valve must be fitted after the pressure reducing valve.

Once the installation has been carried out in accordance with the diagram, setting operations are as follows:

- Close A and open completely the setting swivel T (minimum pressure).
- Close the valve V and open A.

— Turn, using a screwdriver, the setting swivel T until the manometer M shows the required pressure.

— Open the valve V without altering the setting. Do not worry about the pressure reading indicated by the manometer.

Once the system is full, the pressure will stop at the required value.

Our R 150, filling valve, has a check valve, which is completely protected by a stainless steel filter, and a handwheel operated non return valve.

It is possible to inspect the entire valve by unscrewing the lower part.

This operation can be easily executed also by hand.

Using a screwdriver it is possible to turn the screw and adjust the supply-pressure.

Turning clockwise pressure increases. Turning anti-clockwise pressure reduces.

The progress of the pressure into the system, during the filling up, is visible on the manometer connected to the body of the valve.

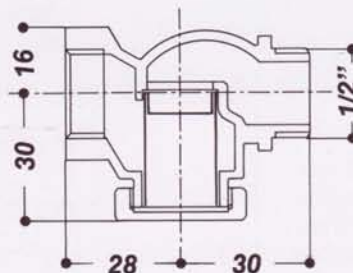
To control possible water-leakages from the system, the non-return valve can be shut after the system is in operation.

It is recommended to install our filter art. R 151 in front of the filling valve to ensure pre-filtration of the water-supply.

Working

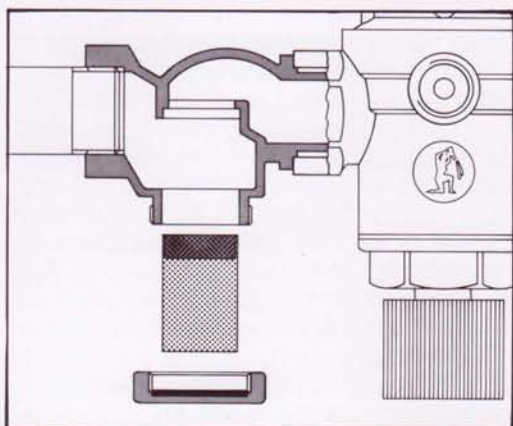
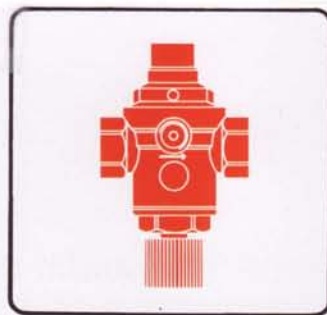


R 151



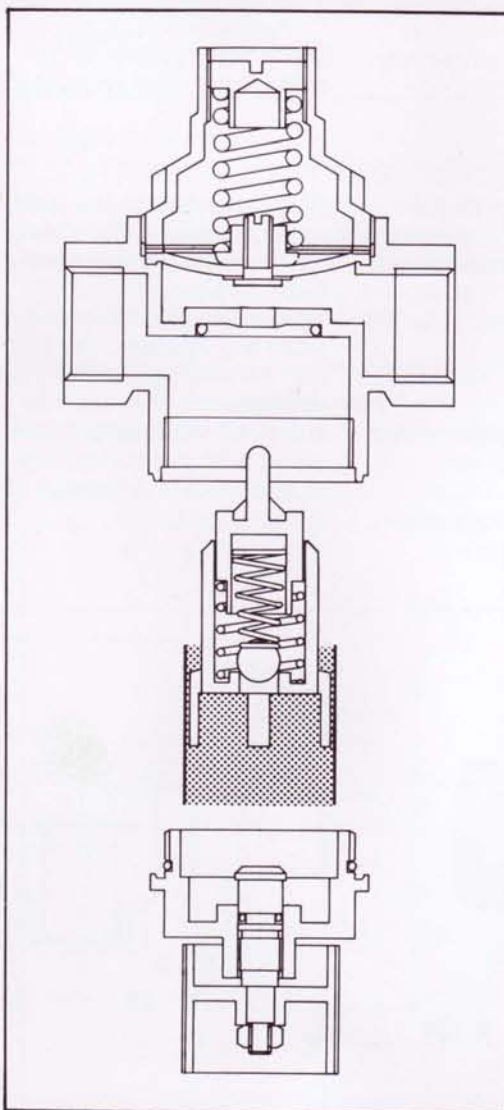
R 151

## R 150 Giacomini filling valve



Filter art. R 151 installed on the filling valve art. R 150.

### Maintenance



It is necessary to look over filter and check-valve after the first working of the system: afterwards are enough periodic inspections.

Possible impurities into the filter have to be taken away by mechanical means (brushes, pliers and needles), the filter the check-pressure containing member and the spring have to be washed with pure water.

To avoid washing with chemical-substance which damage the washers.

Unscrewing the valve bonnet it is possible the inspection of the pressure containing member, the filter and the non-return valve.