

AUTOMATIC FEEDERS "ALCAR-REG" WITH INCORPORATED CHECK VALVE, FILTER AND SHUT OFF VALVE

CONNECTIONS: DISMANTLING FITTING MALE-FEMALE



HYDRAULIC FEATURES

The Alcar-Reg automatic feeder installed on the feeder piping of a closed circuit heating system assures a constant preset pressure for the heat-transfer fluid in the system, by restoring automatically any missing water (e.g., after purging). During the loading or restoring phase of the system, the valve will block the flow once the preset pressure is obtained and will keep the pressure steady. The micro-stretched mesh filter in the lower part of the automatic feeder enables the distribution of clean water, free of solid impurities, that might otherwise compromise the device's operation. The device's downstream check cartridge prevents backflow of the water from the heating circuit into the conduit. Finally, the Alcar-Reg assembly contains two pressure connections where a gauge can be installed in order to monitor the system's pressure and a manual shut off valve to isolate the water present in the heating plant from the water in the feeding pipe, by simply tightening the upper knurled handwheel, which is particularly useful for maintenance or in case of emergency.

TECHNICAL FEATURES

Pressure:	
Maximum allowable inlet pressure (PN)	10 bar
Setting range (PS)	0.5 - 4 bar
PS value set during testing	1.5 bar
PS tolerance set when varying the inlet pressure	±5 %
Temperature:	
maximum working temperature (TS)	0°C (excluding ice) 110 °C
Compatible fluids:	
Heat transfer fluids in compliance with Italian national standards (UNI 8065 § 6)	
Glycolate solutions (glycol)	50%
Filtration Rating:	
Reference micron rating (S)	< 400 µm
Threading:	
Pipeline connection	Threads according to ISO 228/1
Gauge connection	Threads according to EN 10226- Rp1/4" (ex ISO 7/1)
Requirements and tests as per:	
Pressure reducing device	EN 1567
Shut off valve seat tightness	Test P12 - EN 12266-1
Check cartridge	EN 13959 Family E, Type A
Acoustic group	Class I - Lmax (dBA) < 20

DESIGN

Body and bonnet in brass EN 12165 - CW617N
 Other components in brass EN 12164 - CW614N
 Internal check seat in pure PTFE (Teflon)
 EPDM rubber diaphragm, nylon reinforced to 70 Sh
 Static O-ring washers and seat gaskets in NBR RUBBER
 Dynamic O-ring washers in EPDM RUBBER (peroxide-cured)
 SM GALVANIZED STEEL setting spring - EN 10270-1
 Other springs in STAINLESS STEEL EN 10088-14310 (AISI 302)
 Handwheel in ACETAL RESIN (POM)
 MICROSTRETCHED STAINLESS STEEL mesh filter EN 10088-1.4301 (AISI 304)

PRODUCT CODES

0514.015 dismantling male/female 1/2" with gauge

0514.115 dismantling male/female 1/2" without gauge



OFFICINE RIGAMONTI S.p.A.
 via Circonvallazione, 9
 13018 Valduggia (VC), ITALY
 TEL +39 0163.48165
 FAX +39 0163.47254
 www.officinerigamonti.it
 export@officinerigamonti.it

0514 • 1/2"

AUTOMATIC FEEDERS "ALCAR-REG" WITH INCORPORATED CHECK VALVE, FILTER AND SHUT OFF VALVE

CONNECTIONS: DISMANTLING FITTING MALE-FEMALE

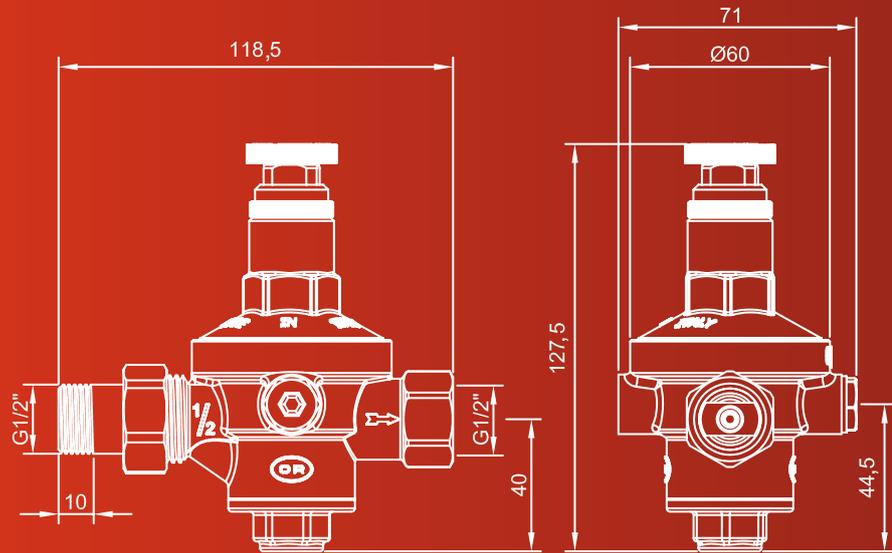


DIAGRAM FLOW

