

0524 • 1/2"

0525 • 1/2"

0526 • 1/2"

AUTOMATIC FEEDER "RIAL" WITH INCORPORATED CHECK VALVE, FILTER AND SHUT OFF VALVE

CONNECTIONS:

DISMANTLING FITTING MALE-DISMANTLING FITTING MALE
DISMANTLING FITTING MALE-FEMALE
FEMALE-FEMALE



0524



0525



0526

HYDRAULIC FEATURES

The Rial 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 Rial assembly contains two pressure connections where a gauge can be put 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 lower knurled handwheel, which is particularly useful for maintenance or in case of emergency.

TECHNICAL FEATURES

Pressure:	
Maximum allowable working 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 connections	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
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 gasket in SILICONE 40 Sh
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 calibration spring - EN 10270-1
Handwheel in NYLON 66
MICROSTRETCHED STAINLESS STEEL mesh filter EN 10088-1.4301 (AISI 304)

PRODUCT CODES

0524.015	dismantling male/ dismantling male	1/2" with gauge	0525.115	dismantling male/female	1/2" without gauge
0524.115	dismantling male/ dismantling male	1/2" without gauge	0526.015	female/female	1/2" with gauge
0525.015	dismantling male/female	1/2" with gauge	0526.115	female/female	1/2" without gauge



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