

# Radiator plug with automatic air vent valve. AERCAL

series 507



cert. n° 0003  
ISO 9001

01032/04 GB



## Function

The function of the radiator plugs fitted with air vent valve is to automatically release air blocked in heater units both when the system is filled and during normal operation. This prevents undesirable effects such as noise and inefficient performance of the heater units themselves. All the series 507 models come complete with hygroscopic safety plug.

## Models deposited

## Product range

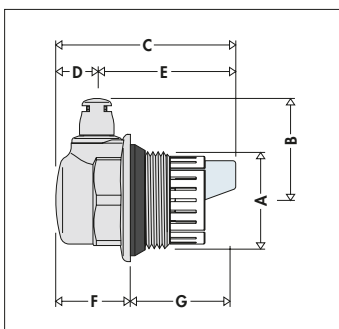
|               |                                   |                     |
|---------------|-----------------------------------|---------------------|
| Series 507611 | Radiator plug with air vent valve | size 1" M right     |
| Series 507621 | Radiator plug with air vent valve | size 1" M left      |
| Series 507711 | Radiator plug with air vent valve | size 1 1/4" M right |
| Series 507721 | Radiator plug with air vent valve | size 1 1/4" M left  |

## Technical specification

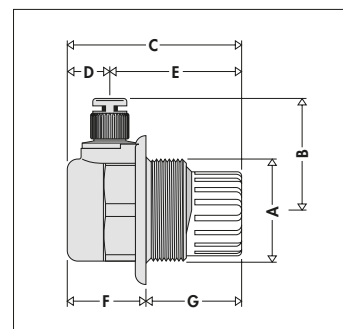
|                   |                                     |
|-------------------|-------------------------------------|
| Materials:        |                                     |
| Body:             | brass EN 12165 CW617N chrome plated |
| Float:            | high strength polymer               |
| Obturator:        | silicon rubber                      |
| Spring:           | stainless steel                     |
| Protective cage:  | POM                                 |
| Air vent seal:    | silicon rubber                      |
| Heater unit seal: | EPDM                                |
| - size 1":        |                                     |
| - size 1 1/4":    | fibre without asbestos              |

|                            |                            |
|----------------------------|----------------------------|
| Performance:               |                            |
| Medium:                    | Water and glycol solutions |
| Max. percentage of glycol: | 30%                        |
| Max. working pressure:     | 10 bar                     |
| Max. discharge pressure:   | 6 bar                      |
| Max. working temperature:  | 100°C                      |

## Dimensions



| Code   | A   | B  | C    | D  | E    | F    | G  | Weight (kg) |
|--------|-----|----|------|----|------|------|----|-------------|
| 507611 | 1"D | 35 | 61,5 | 14 | 47,5 | 25,5 | 36 | 0,13        |
| 507621 | 1"S | 35 | 61,5 | 14 | 47,5 | 25,5 | 36 | 0,13        |

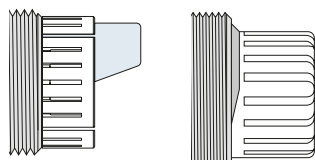


| Code   | A       | B  | C    | D    | E  | F    | G  | Weight (kg) |
|--------|---------|----|------|------|----|------|----|-------------|
| 507711 | 1 1/4"D | 38 | 54,5 | 13,5 | 41 | 24,5 | 30 | 0,17        |
| 507721 | 1 1/4"S | 38 | 54,5 | 13,5 | 41 | 24,5 | 30 | 0,17        |

## Constructional details

### Protective cage

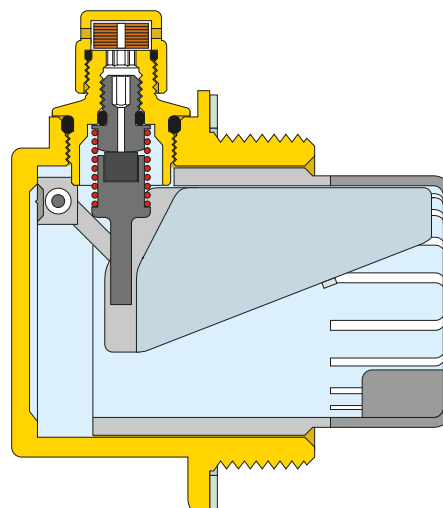
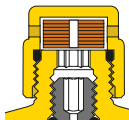
The function of the cage in acetal resin is to protect the float from shock when the plug is screwed into the heater unit.



### Hygroscopic safety plug

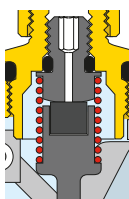
All models are supplied with a hygroscopic safety plug.

The principle by which they function is based on the property of the cellulose fibre disks of which the sealing cartridge is formed. These disks increase in volume by 50% as soon as they are bathed in water and close the valve.



### “Dry” obturator

The float and the other internal parts are positioned in such a way that water never reaches the valve obturator. This limits the dangers caused by the infiltration of impurities contained in the fluid.



### Leverage system

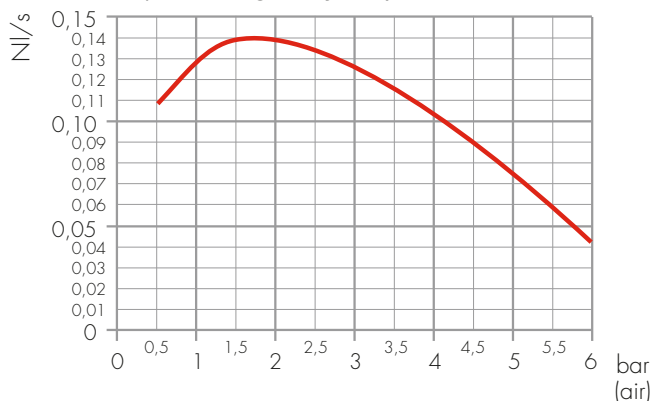
The float is moved by a rod made from machined stainless steel which turns on a thin sheet steel support which minimises friction in the presence of scaling.

This system ensures proper functioning of the device over time.



## Fluid dynamic characteristics

### Air flow rate (when filling the system)



## Installation

The plug shall be fitted with the air vent valve in a vertical position to function properly.

The small hygroscopic plug shall be fully screwed in (as supplied from the factory) to function properly. It is also recommended that it is replaced periodically.

## Accessories

Spare hygroscopic plugs:

- For 1" size series 507, code R59720



- For 1 1/4" size series 507, code R59478



## SPECIFICATION SUMMARIES

### 5076..

Radiator plug with automatic air vent valve. Threaded connection, 1" M right (or left). Brass body. Chrome plated. Maximum working temperature: 100°C. Maximum working pressure: 10 bar. Maximum discharge pressure: 6 bar. Heater unit seal in EPDM. Supplied with hygroscopic safety valve and protective cage.

### 5077..

Radiator plug with automatic air vent valve. Threaded connection, 1 1/4" M right (or left). Brass body. Chrome plated. Maximum working temperature: 100°C. Maximum working pressure: 10 bar. Maximum discharge pressure: 6 bar. Heater unit seal in fibre without asbestos. Supplied with hygroscopic safety valve and protective cage.

We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice.

