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## Pressure gauge cock AMC

### NOTE!

The product may only be used if you have fully read and understood these operating instructions. The manual is also available on the AFRISO websites in the Internet.

### WARNING!



The product may only be installed, commissioned, and dismantled by trained personnel.

Changes and modifications carried out by unauthorised persons may cause danger and are prohibited for safety reasons.

Risk of scalding by hot medium! Perform all installation and maintenance work after the system has cooled down.

### APPLICATION

AMC pressure gauge cocks are used to isolate measuring devices from the system for control or replacement purposes. AMC cocks can also be used to vent the pressure gauge and check the zero point indication. In addition, the 3-way version of the AMC pressure cock allows the correctness of the indications to be checked using a portable measuring device. The valve can be used in installations where the working medium is water or water-glycol mix with a glycol concentration not exceeding 50%.

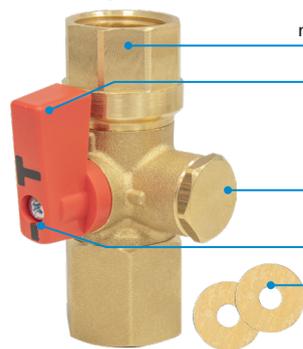
### PREDICTABLE INCORRECT APPLICATION

Do not use pressure gauge cocks AMC in the following cases:

- when operating conditions exceed the maximum allowable pressure or temperature of the medium,
- with the following liquids and gases: with the following liquids and gases: a mix of water and glycol with a glycol concentration of more than 50%, water vapour, oil, petrol, other media that damage the valve components or interfere with its operation.

### CONSTRUCTION AND SCOPE OF DELIVERY

#### AMC 2-way cock



Connections depending on version:  
nut, female or male thread, type G, size 1/2"

Handle

Thread cover for test connection

Test connection

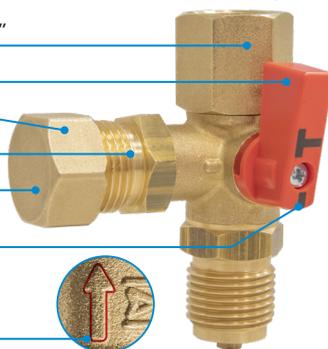
Air vent plug

Flow direction indication depending  
on the position of the handle

Gaskets

Direction of medium flow from  
the system to the measuring device

#### AMC 3-way cock



### MOUNTING

1. Check that the proper AMC cock has been selected for the type of pressure gauge and thread in the installation. (Table 1).
2. The tap should be installed in accordance with the arrow on the valve body.
3. Use the proper sealant for the type of threads:
  - G1/2" pressure gauge according to PN-EN 837-1 – gasket,
  - G1/2" pressure gauge, other (e.g. RF/HZ AFRISO heating) – sealant,
  - thread on the system side, female G or male G – seal (or sealant),
  - thread on the system side female Rp or male R – sealant.

### TABLE 1. SELECTION OF THE PROPER AMC COCK

| AMC cock | G1/2" pressure gauge according to PN-EN 837-1 | G1/2" pressure gauge, other (e.g. heating HZ/RF) | System thread         |
|----------|---|--|-----------------------|
| AMC 416  | ✓   | ✓  | female G or Rp        |
| AMC 466  | ✓   | ✓  | male G or R           |
| AMC 413  | ✓   | -  | female G or Rp        |
| AMC 463  | ✓   | -  | male G or R           |
| AMC 433  | ✓   | -  | male G (min. 17,5 mm) |
| AMC 513  | ✓   | -  | female G or Rp        |

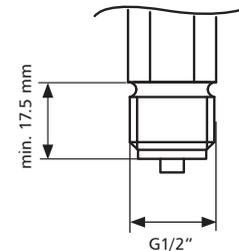


Fig. 1. Male thread G1/2" according to PN-EN 837-1

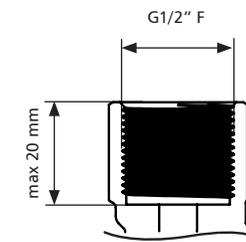


Fig. 2. G1/2" female thread with flat face for gasket

We recommend connecting AMC pressure cocks to the system via a siphon tube, which will protect the pressure gauge against excessive temperatures and neutralise pressure peaks in the system.

### OPERATION, 2- AND 3-WAY COCKS

Fig. 3



The pressure from the system is transmitted directly to the pressure gauge and the air vent plug/test connection.

Fig. 4



The pressure gauge is isolated from the system pressure. After unscrewing the air vent plug and relieving the pressure gauge, it is possible to check the zero indication.

Fig. 5



The pressure from the system is transmitted directly to the pressure gauge by disconnecting the air vent/test connection.

Fig. 6



The pressure from the system is transmitted directly to the air vent plug/test connection. The pressure gauge is isolated from the system pressure.

## EXAMPLE APPLICATION SCHEMES

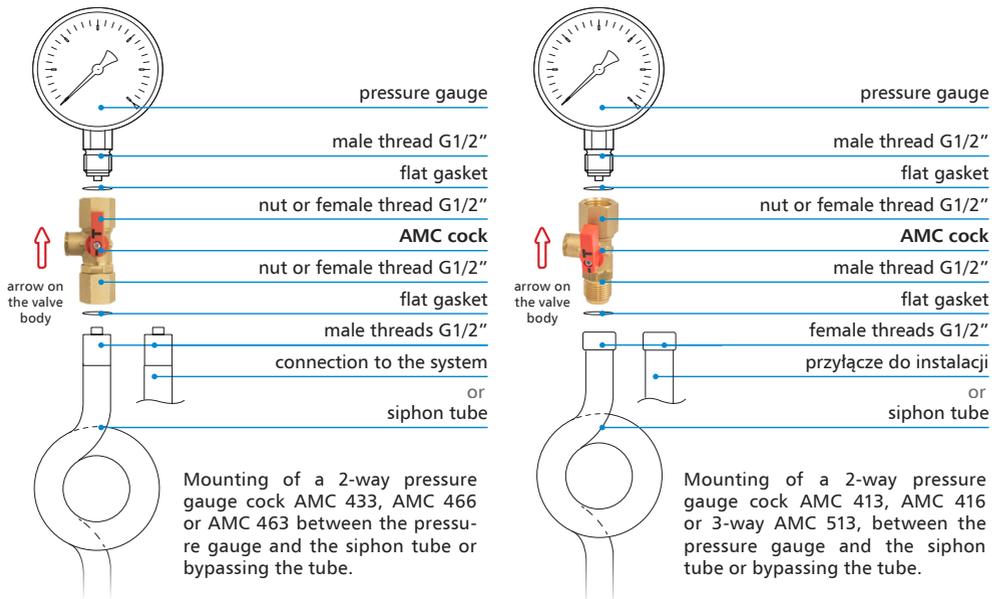


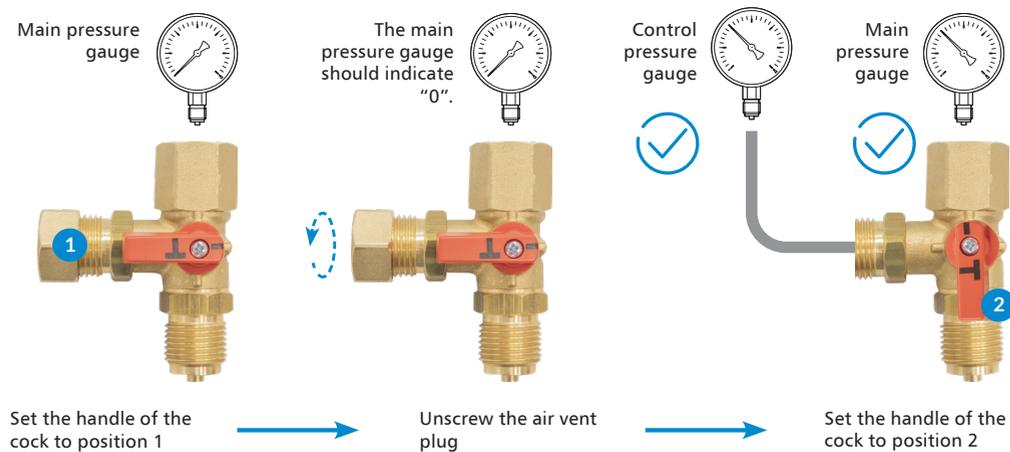
Fig. 7. Siphon tube or male thread on the system side

Fig. 8. Siphon tube or female thread on the system side

## AIR VENTING OF THE SECTION FROM THE SYSTEM TO THE PRESSURE GAUGE

Set the handle to the position shown in Fig. 3. Unscrew the air vent plug. Unscrewing the air vent plug leads to controlled venting through the thread.

## CHECKING THE ACCURACY OF PRESSURE GAUGE INDICATIONS – AMC 513 3-WAY COCK



3

## MAINTENANCE

Periodically (at least once a year), check the tightness of the connections and turn the cock handle fully.

## APPROVALS AND CERTIFICATES

AMC pressure gauge cocks are subject to the Pressure Directive 2014/68/EU and are not CE marked in accordance with Article 4.3 (recognised engineering practice). The products have been marked with the B construction mark, in accordance with the regulations in force in Poland. They are hygienically certified by the National Institute of Public Health NIH in Poland.

## TECHNICAL DATA

| Parameter                    | Value / description |
|------------------------------|---------------------|
| Nominal pressure class       | PN25                |
| Medium temperature           | 0-120°C             |
| Ambient temperature          | 5-60°C              |
| Vacuum                       | max. 100 kPa        |
| Glycol content in the system | max. 50%            |
| Nominal diameter             | DN7                 |
| Body material                | CW617N brass        |
| Sealing materials            | PTFE, EPDM          |

## DECOMMISSIONING, DISPOSAL

1. Dismount the product.
2. Dispose of the product according to local directives and guidelines.

The product is built from recyclable materials.

If you have any questions or problems with disposal, please contact the appropriate distributor or manufacturer's point.

## WARRANTY

Product guarantee in accordance with the general conditions of sale and delivery.

## CUSTOMER SATISFACTION

For AFRISO customer satisfaction is paramount. If you have any questions, suggestions or product problems, please contact us.

4