

R179AM

Multilayer and plastic pipe adaptors



Water
Management



Energy
Management

Datasheet
0253EN  03/2022



Adaptors for plastic or multilayer pipes for use in plumbing systems.

Compliant with EN 1254-3 Standard.

Black O-Ring compliant with EN 681-1.

Versions and product codes

PRODUCT CODE	CONNECTIONS
R179MX012	B.16 x 14x2
R179MX014	B.16 x 16x2
R179MX013	B.16 x 16x2,2
R179MX016	B.16 x 16,2x2,6
R179MX019	B.16 x 17x2
R179MX015	B.16 x 18x2
R179MX020	B.16 x 20x2
R179MX036	B.16 x 20x2,25
R179MX021	B.16 x 20x2,5
R179MX037	B.16 x 20x2,9
R179MX022	B.18 x 14x2

PRODUCT CODE	CONNECTIONS
R179MX024	B.18 x 16x2
R179MX023	B.18 x 16x2,2
R179MX028	B.18 x 16,2x2,6
R179MX034	B.18 x 17x2
R179MX025	B.18 x 18x2
R179MX026	B.18 x 20x2
R179MX035	B.18 x 20x2,25
R179MX027	B.18 x 20x2,5
R179MX041	B.22 x 20x2
R179MX040	B.22 x 26x3
R179MX045	B.28 x 32x3

 **NOTE.** It is advisable to refer to the current price list catalog or contact the Giacomini technical service, to locate the suitable adaptor intended use.

Technical data

- Fluids of use: water, glycol solutions (max. 50 % of glycol)
- Temperature range: 5÷110 °C
- Max. working pressure: 10 bar

Materials

- Nut, ferrule and hose connection: brass
- Separation ring: plastic material
- Black O-Ring for hydraulic seal: EPDM complying with EN 681-1 Standard

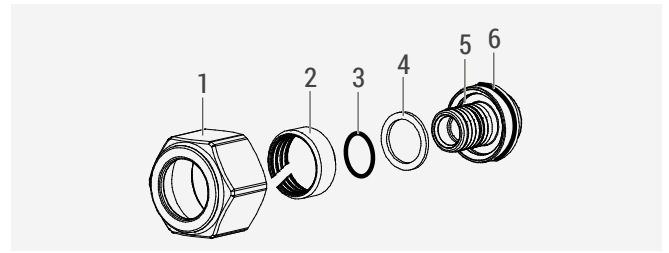
Installation

- 1) The pipe must be cut perpendicularly to its axis using the R990 pipe cutter for plastic pipes or the R990M pipe cutter for multilayer pipes (to make the cut easier and limit the ovality, rotate slightly the pipe cutter during the operation).
- 2) Deburr the pipe inlet with RP205 tool.
- 3) Calibrate the pipe with RP209 tool (only in case of multilayer pipes).
- 4) Lubricate either the hydraulic sealing elements or the internal surface of the pipe in contact with the internal o-ring with lubricants suitable for use with the system material and the intended application of the system.
- 5) Fit the nut on the pipe.
- 6) Fit the ferrule on the pipe.
- 7) Fit the separation ring (only in case of multilayer pipes).
- 8) Insert the hose connection into the pipe, till the end.
- 9) Fit the adaptor in the terminal of the thermo-hydraulic distribution/regulation system (i.e.: manifold's outlets).
- 10) Proceed with the tightening of the nut to the terminal of the thermo-hydraulic distribution/regulation system.

▲ WARNING. In the joint of the multilayer pipes to the thermo-hydraulic distribution/regulation systems, the interposition of the plastic separation ring between the uncovered surface of the metallic pipe layer and the adaptor body, prevents the arising of electro-corrosive phenomenon that could compromise the joint reliability.

An excessive torque value to the terminal of the thermo-hydraulic distribution/regulation system risks to compromise either the mechanical or the hydraulic behaviour of the fitting.

Components



- | | |
|---|--|
| 1 | Nut |
| 2 | Ferrule for mechanical seal |
| 3 | Internal O-Ring |
| 4 | Separating ring (to be used only for multilayer pipes) |
| 5 | Adaptor and hose connection |
| 6 | External O-Ring |

Reference Standards

- **EN 1254-3:** copper and copper alloys - Hydraulic fittings - Fittings for plastic pipes with compression terminals.
- **EN 681-1:** elastomer sealing elements - Material requirements for sealing joints in pipes used for water supply and discharge.

Product specifications

R179AM

Adaptors for plastic or multilayer pipes for use in plumbing systems. Fluids of use: water, glycol solutions (max. 50 % of glycol). Temperature range: 5÷110 °C. Max. working pressure: 10 bar. Brass nut, ferrule and hose connection. Separation ring in plastic material. Black O-Ring for hydraulic seal in EPDM complying with EN 681-1 Standard. Compliant with EN 1254-3 Standard.

▲ Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

♻️ Package Disposal. Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

ℹ️ Additional information. For more information, go to giacomini.com or contact our technical assistance service. This document provides only general indications. Giacomini S.p.A. may change at any time, without notice and for technical or commercial reasons, the items included herewith. The information included in this technical sheet do not exempt the user from strictly complying with the rules and good practice standards in force.

♻️ Product Disposal. Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.