

# Product Data Sheet

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Seals & Fittings

## Cleverfit uni smart fitting

Romania - Purmo



- Easy installation.
- High compatibility.
- Durability.
- Visual inspection holes.
- Corrosion resistance.

## Description

CLEVERFIT Uni Smart Fitting is designed for easy and efficient installation across multiple applications, including central heating, water distribution, and underfloor heating. Crafted with a brass body, nylon sleeve ring, and a stainless-steel sleeve, the fitting includes sight holes for visual inspection and ensures corrosion resistance with dielectric connectors. Compatible with PEX and multi-layer pipes, the fittings support consistent performance at high pressures and temperatures. The use of specialized pressing tools ensures long-lasting, leak-resistant connections.

## Area of Application

CLEVERFIT Uni Smart Fitting is perfect for central heating, water distribution, underfloor heating, compressed air systems, and rainwater handling. It ensures reliable connections in new installations and renovations. The fitting is suitable for use with PEX and multi-layer pipes in diameters ranging from 16 mm to 32 mm, adhering to maximum working parameters of 95°C and 10 bar.

## Selection Criteria

Selection criteria depend on the pipe diameter and application type. For quick selection, use our brochure or design service for customized solutions.

## Basic User Instructions

To use CLEVERFIT Uni Smart Fitting, ensure that the pipe is cut perpendicularly using proper tools. Calibrate the pipe to achieve a circular shape, then insert it fully into the fitting. Use a pressing tool compatible with the fitting size and profile. This guarantees a secure and leak-proof installation. Visual inspection of the fitting through the built-in sight holes ensures correct assembly.

## Prescription text specifiers

CLEVERFIT Uni Smart Fitting features a brass CW617N body, dielectric nylon sleeve ring, and AISI 304 stainless steel sleeve. It's designed for central heating, water, underfloor heating, compressed air systems, and rainwater installations. Compatible with PEX and multi-layer pipes of 16-32 mm in diameter, it ensures durability up to 95°C and 10 bar pressure. The fitting includes sight holes for visual inspection and requires proper calibration and pressing tools for installation. Ideal for both new installations and renovations, offering reliable, leak-proof connections with high corrosion resistance.

## Warranty

Purmo radiators are warranted for a period of 10 years\* from date of purchase against all manufacturing defects when they are used in normal conditions and for a heating system with hot water. The warranty does not apply to defects caused by installation or handling errors, misuse or factors external to the radiators, such as water quality or oxygen-permeable pipes.

Underfloor heating products and piping systems elements are warranted for a period of 10 years\*\*.

\* 6 years for galvanized radiators and 2 years for all electronic and electric components and spare parts sold separately (side covers, top grilles, plastic clips, plugs, air vents, fixing parts)

\*\* 30 years for PexPenta pipes

# Specification

| Feature  | Unit             | Value                                 |
|--|------------------|---------------------------------------|
| Etim Class   |                  | EC003024 - Fitting with 2 connections |
| Depth  | Millimetre (mm)  | 30, 35                                |
| Weight   | Kilogram (kg)    | 0.0552, 0.64, 1.7, 15, 7.4            |
| Height   | Millimetre (mm)  | 20, 21, 40                            |
| Model  |                  | 1-part, 2-part                        |
| Shape  |                  | Straight                              |
| Wrench width                                       | Millimetre (mm)  | 27                                    |
| Connection 1                                       |                  | Internal thread metric                |
| Connection 2                                       |                  | Internal thread metric                |
| Length   | Millimetre (mm)  | 30, 35                                |
| Tightening torque                                  | Newtonmetre (Nm) | 25, 35                                |
| Surface protection connection 1                    |                  | Nickel-plated                         |
| Surface treatment connection 1                     |                  | Pickled                               |
| Surface protection connection 2                    |                  | Nickel-plated                         |
| Surface treatment connection 2                     |                  | Pickled                               |
| Contour code connection 1                          |                  | Several                               |
| Contour code connection 2                          |                  | Several                               |
| Max. operating pressure at max. medium temperature | Bar (bar)        | 10                                    |
| Main colour fitting                                |                  | Other                                 |
| Wall thickness connecting pipe, connection 1       | Millimetre (mm)  | 2                                     |
| With connection indicator                          |                  | Yes                                   |
| Zeta value   |                  | 5.4                                   |
| Capped   |                  | No                                    |
| With sealing rings/gaskets                         |                  | Yes                                   |
| Nominal diameter connection 2                      |                  | 3/4 inch (20)                         |
| Eccentric  |                  | No                                    |
| With drain valve                                   |                  | No                                    |
| With de-aerator                                    |                  | No                                    |
| Outer pipe diameter connection 1                   | Millimetre (mm)  | 14, 16, 17, 20                        |
| Outer pipe diameter connection 2                   | Millimetre (mm)  | 20                                    |
| Flange compression class                           |                  | PN 10                                 |
| With buffer stud                                   |                  | No                                    |
| Wall thickness, connection 1                       | Millimetre (mm)  | 2                                     |
| Flange standard                                    |                  | ANSI                                  |
| FM quality mark                                    |                  | No                                    |
| UL quality mark                                    |                  | No                                    |

| Feature                          | Unit                 | Value  |
|----------------------------------|----------------------|--|
| ULC quality mark                 |                      | No   |
| LPCB quality mark                |                      | No   |
| Material sealing                 |                      | Ethylene-propylene diene monomer rubber (EPDM) |
| Reducing                         |                      | No, Yes  |
| Max. operating pressure at 20 °C | Bar (bar)            | 10   |
| Medium temperature (continuous)  | Degrees celsius (°C) | 5, 70, 90, 95                                  |
| Nominal diameter connection 1    |                      | Other  |
| With thermal insulation          |                      | No   |
| High tensile strength            |                      | Yes  |
| System specific                  |                      | Yes  |
| Material connection 1            |                      | Brass  |
| Material connection 2            |                      | Brass  |
| Material quality connection 1    |                      | CuZn39Pb3 (CW617N)                             |
| Material quality connection 2    |                      | CuZn39Pb3 (CW617N)                             |

# Resources

| Document Description | Document Type                                   | Link |
|----------------------|---|------|
| <b>Items</b>         |   |      |
| Global Item Code     | <b>Item Description</b>                         |      |
| FBWAMFNE14000SR0     | PURMO clamp fitting Cleverfit uni smart 14x2 mm |      |
| FBWAMFNE16000SR0     | Cleverfit uni smart 16x2 mm                     |      |
| FBWAMFNE17000SR0     | PURMO clamp fitting Cleverfit uni smart 17x2 mm |      |
| FBWAMFNE17E000PO     | Coupling pipe-man. 17x2 3/4"                    |      |
| FBWAMFNE20000SR0     | PURMO clamp fitting Cleverfit uni smart 20x2 mm |      |