

Product Data Sheet

4/19/2025

Seals & Fittings

CLEVERFIT Radial Elbow

Romania - Purmo



- Leak Before Press Feature
- High Durability
- Dual O-Ring Seal
- Multiprofile Compatibility
- Certified for Use in Potable Water Systems

Description

The CLEVERFIT Radial Elbow is a key component in modern plumbing systems, designed to ensure robust and secure connections. Constructed from high-performance PPSU material, it offers excellent resistance to high temperatures and aggressive water properties. The unique design includes dual o-rings and a 'Leak Before Press' feature that ensures any incomplete pressing is evident through visible leakage, avoiding the risk of hidden faults. This product facilitates installations in both heating and potable water systems, certified to meet stringent health standards.

Area of Application

CLEVERFIT Radial Elbow is suitable for heating and water supply systems. It's ideal for both cold and hot water installations, with a temperature range up to 90°C and project pressure up to 10 bar. Certified for drinking water systems in compliance with DIN EN 21003, DVGW and local standards.

Selection Criteria

For product selection, use our design service or refer to our brochure for a quick selection guide. Ensure compatibility with pipe diameter and pressure requirements.

Basic User Instructions

Ensure the pipe is cut cleanly and deburred. Insert the pipe fully into the CLEVERFIT Radial Elbow until it is clearly visible in the control window. Use suitable pressing tools with appropriate profiles (TH or U). Perform a pressure test after installation to verify the connection. Do not use under extreme temperatures without consulting the guidelines.

Prescription text specifiers

CLEVERFIT Radial Elbow constructed from PPSU provides reliable, leak-proof connections in heating and potable water installations. It supports pipe diameters of 16-32 mm, operates under a maximum pressure of 10 bar, and temperatures up to 90°C. The integrated 'Leak Before Press' feature ensures any incomplete pressing is immediately evident through visible leakage, ensuring the reliability of the installation. Certified for potable water use, it meets stringent health standards, ensuring safety and performance in all applications. Suitable for commercial and residential systems, making it versatile and high-performing.

Warranty

Specification

Feature	Unit	Value
Etim Class		EC003024 - Fitting with 2 connections
Depth	Millimetre (mm)	23.3, 23.4, 26.3, 27.3, 27.4 ... 39.3, 39.7, 47.4, 57.4, 70
Weight	Kilogram (kg)	0.0225, 0.0263, 0.0351, 0.058, 0.0708 ... 0.2473, 0.2742, 0.4436, 0.6435, 0.9184
Height	Millimetre (mm)	23.3, 27.3, 33.3, 34, 35.15 ... 54.65, 56, 57.4, 57.65, 70
Model		2-part
Shape		Elbow (fitting)
Connection 1		Press sleeve
Connection 2		Internal thread metric, Press sleeve
Length	Millimetre (mm)	113.5, 52, 54, 55.2, 57.15 ... 75.5, 75.85, 76.35, 86, 99.5
Bend angle	Degrees (°)	90
Surface protection connection 1		Nickel-plated, Untreated
Surface treatment connection 1		Pickled, Untreated
Surface protection connection 2		Galvanic/electrolytic zinc plated, Nickel-plated, Untreated
Surface treatment connection 2		Other, Pickled, Untreated
Contour code connection 1		Several, TH, TH/U
Contour code connection 2		Several, TH, TH/U
Max. operating pressure at max. medium temperature	Bar (bar)	10
Main colour fitting		Other
With connection indicator		Yes
Zeta value		1.1, 1.5, 11.5, 2.73, 3.1, 4.3, 5.2, 5.97
Capped		No
With sealing rings/gaskets		Yes
Nominal diameter connection 2		1 inch (25), 1/2 inch (15), 3/4 inch (20), 7/8 inch, DN 12, DN 15, DN 20, DN 25, DN 32, DN 40, DN 50
Eccentric		No
With drain valve		No
With de-aerator		No
Outer pipe diameter connection 1	Millimetre (mm)	16, 20, 26, 32, 40, 50, 63
Outer pipe diameter connection 2	Millimetre (mm)	15, 16, 20, 25, 26, 32, 40, 50, 63
With buffer stud		No
Wall thickness, connection 1	Millimetre (mm)	2, 3, 3.5, 4, 4.5

Feature	Unit	Value
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)	70, 95
Nominal diameter connection 1		DN 12, DN 15, DN 20, DN 25, DN 32, DN 40, DN 50
With thermal insulation		No
High tensile strength		Yes
System specific		Yes
Material connection 1		Brass, Polyphenylsulfone (PPSU)
Material connection 2		Brass, Polyphenylsulfone (PPSU)
Material quality connection 1		CuZn39Pb3 (CW617N), Other
Material quality connection 2		CuZn39Pb2 (CW612N), Other

Resources

Document Description	Document Type	Link
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Items

Global Item Code	Item Description
FAZ4E12F16A000E0	Elbow CFpress F 16x1/2"
FAZ4E12F20A000E0	Elbow CFpress F 20x1/2"
FAZ4E12M16A000E0	Elbow CFpress M 16x1/2"
FAZ4E12M20A000E0	Elbow CFpress M 20x1/2"
FAZ4E16A16A000E0	Elbow CFpress 16x16
FAZ4E20A20A000E0	Elbow CFpress 20x20
FAZ4E26A26A000E0	Elbow CFpress 26x26
FAZ4E32A32A000E0	Elbow CFpress 32x32
FAZ4E34F20A000E0	Elbow CFpress F 20x3/4"
FAZ4E34F26A000E0	Elbow CFpress F 26x3/4"
FAZ4E34M20A000E0	Elbow CFpress M 20x3/4"
FAZ4E34M26A000E0	Elbow CFpress M 26x3/4"
FAZ4E40A40A000E0	Elbow CFpress 40x40
FAZ4E44F32A000E0	Elbow CFpress F 32x1"
FAZ4E44M26A000E0	Elbow CFpress M 26x1"
FAZ4E44M32A000E0	Elbow CFpress M 32x1"
FAZ4E50A50A000E0	Elbow CFpress 50x50
FAZ4E63A63A000E0	Elbow CFpress 63x63
FAZ8E12M16A000E0	Elbow PPSU CFpress M16x1/2"
FAZ8E16A16A000E0	Elbow PPSU CFpress 16x16
FAZ8E20A20A000E0	Elbow PPSU CFpress 20x20
FAZ8E26A26A000E0	Elbow PPSU CFpress 26x26
FAZ8E32A32A000E0	Elbow PPSU CFpress 32x32