

Tender text

PE100 QUICK-TWIST dismantling joint

General preliminary remark

The fittings to be offered must be manufactured from material in compliance with the PE100+ Association and according to DIN EN 12201 with respect to dimensions, tolerances and quality requirements. The fittings must be designed both in the flange-flange version and in the optionally available flange-spigot end version with a coarse thread for +/- 15 mm adjustability of the dismantling joint.

The bodies of the PE fittings must be manufactured from a piece of homogeneous semi-finished material in each case. Semi-finished materials manufactured from wound rods are not permitted.

The flanges must be drilled following the hole pattern stipulated by DIN EN 1092-1 PN 10 or PN 16. The stub and flange must interlock in a positive fit at their connecting surfaces and the flange must provide additional support to the stub from outside so as to counteract deformation. As a result, the flange connection is fully pressure-resistant according to the pipe dimensioning. The backing flange on the fixed flange side must be fitted with a plate spring function that maintains the preload after the bolts have been tightened. The stub of the fixed flange side as well as the thread seal are to be fitted with an O-ring seal appropriate to the dimension and application (TW → EPDM | AW → NBR). The backing flanges must be manufactured from corrosion-free, fibre-reinforced, high-strength plastic.

Proof must be provided that they were manufactured on the basis of a quality assurance system in accordance with DIN EN ISO 9001. For all fittings a certificate in accordance with DIN EN 10204 must be submitted by the manufacturer.

The spigot end, which is optionally available instead of the fixed flange, is to be designed in a long shape in order to enable both heated element butt welding (HS) and heated coil welding (HM).

Optionally available versions:

- Spigot end for welding instead of the fixed flange side
- With longer adjustment path
- Different flange dimensions per side

Standards/guidelines

DIN EN 12201, DIN EN 1092-1, DIN EN 681-1, DVS 2207, DVS 2210, DIN EN 10204, DIN EN ISO 9001, DIN EN ISO 50001, DVGW W 400-2, DVGW GW 335

Permits/certificates

DVGW: flanges DV-8606BT0423 and DV-8611BT0424

Acceptance test certificate 3.1 according to DIN EN ISO 10204 for the semi-finished material from the processed raw material with indication of MFR and OIT; only PE100 material in compliance with PE100+ Association

Manufacturer certified according to ISO 9001:2015 and ISO 50001:2011

Manufacturer:

Reinert-Ritz GmbH or equivalent

Performance specification:

PE100 QUICK-TWIST PAS-FF dismantling joint flange-flange version, with both a loose flange side and a fixed flange side with backing flanges manufactured from corrosion-free, fibre-reinforced, high-strength plastic, with EPDM [alternatively NBR] O-ring on fixed flange side, designed for full pressure load capacity, drilled according to DIN EN 1092-1,

DN ...

PN ...

Designed according to SDR ...



PE 100 QUICK-TWIST PAS-FF dismantling joint, **reduced**, with two loose flanges, with backing flanges manufactured from corrosion-free, fibre-reinforced, high-strength plastic designed for full pressure load capacity, drilled according to DIN EN 1092-1,

DN₁ ...

PN₁ ...

DN₂ ...

PN₂ ...



Designed according to SDR ...

PE100 QUICK-TWIST PAS-FS dismantling joint flange-spigot end version, with a loose flange side with a backing flange manufactured from corrosion-free, fibre-reinforced, high-strength plastic, and a spigot end side corresponding to the pipe dimension, designed for full pressure load capacity, drilled according to DIN EN 1092-1,

DN ...

PN ...

DN/OD ...

SDR ...

**Proof of delivery:**

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