Tender text

PE100 special flange VP (valve performance flange)

General preliminary remark

The fittings to be offered must be delivered as a set consisting of a welding stub and a backing flange adapted to the dimension. The welding stubs must be manufactured from material in compliance with the PE100+ Association and according to DIN EN 12201 and DIN EN 1555 with respect to dimensions, tolerances and quality requirements. The backing flanges must be manufactured from corrosion-free, fibre-reinforced 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 body of the PE fitting must be manufactured in the injection moulding process or alternatively from a piece of homogeneous semi-finished material. Semi-finished materials manufactured from wound rods are not permitted.

The stub must be drilled following the hole pattern stipulated by DIN EN 1092-1 PN 10 or PN 16. This way the bolt holes are closer to the outer pipe diameter. The backing flange must exhibit the same hole pattern. This enables transition with the same nominal diameter, e.g. to accessories or steel flanges.

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 must be fitted with a plate spring function that maintains the preload after the bolts have been tightened. The bolt holes in the PE stub must have a long shape to ensure perfect alignment of the flanges or the accessories.

The stub must be fitted with an [EPDM | NBR] O-ring seal appropriate to the dimension.

The spigots must have a long shape to enable both butt welding (HS) and electrofusion welding (HM).

Optionally available versions: flat-sealing without groove and O-ring, NBR o-ring

Standards/guidelines

DIN EN 12201, DIN EN 1092-1, 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: 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 special flange VP with a backing flange made of corrosion-free, fibre-reinforced plastic for connection with the same nominal diameter to accessories, with pretensioning and aligning function, with [EPDM | NBR] O-ring, designed for full pressure resistance, drilled in accordance with DIN EN 1092-1, with long welding end for electrofusion welding (HM).
DN/OD… SDR…
DN… PN ...

Proof of delivery:

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