

Tender text

## **PE100 HP flange (high performance flange)**

### **General preliminary remark**

The fittings to be offered must be delivered as a set consisting of a welding stub and a loose flange-type 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 or from steel with a plastic coating in accordance with DIN EN 10310. 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, in the case of larger dimensions, from a piece of homogeneous semi-finished material. Semi-finished materials manufactured from wound rods or the subsequent application of other forms of reinforcing are not permitted.

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 is permanently connected to the welding stub.

Use of a profile gasket is recommended.

The spigots must have a long shape to enable both HE butt welding and HW welding.

The hole pattern corresponds to DIN EN 1092-1 PN 10 or PN 16.

Optionally available versions: Design according to DIN EN 1092-1 PN 25, stainless steel backing flange

### **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-4508BO0259 bis DN 200

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:**

HP flange consisting of a PE100 welding stub and a permanently fitted backing flange made either of corrosion-free, fibre-reinforced plastic or steel with a plastic coating according to DIN EN 10310, designed for full pressure resistance, drilled in accordance with DIN EN 1092-1, long welding end for HW welding,

d1 ...

DN ...

SDR ...

PN ...

**Proof of delivery:**

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