

## General



### Material

The used PE material complies with the requirements of the:

EN 1555 plastic pipe system for gas supply.  
EN 12201 plastic pipe system for drinking water supply.

The PE materials are classified according to the minimum long-term-strength (MRS) PE 100.

### Joining

Welded joining

Butt welding with heating unit according to the DVS regulations 2207, Part 1, section 4.1.

Electrofusion socket welding according to DVS regulations 2207, part 1, section 5.1.

Apparatus and devices for butt welding with heating unit according to DVS regulations 2208, part 1, section 4.1.

Apparatus and devices for electrofusion socket welding according to DVS regulations 2208, part 1, section 6.1.

**B-R** fittings made of PE 100 can be welded in the MFR range (0,3 – 1,3) g/10 min. with all pipes that comply to the standards EN 1555 and EN 12201. If the MFR value is outside the above specified MFR range the welding is to be redone according to the DVS 2203-4.

### Technical data

Density	according to ISO 1183	≥930 kg/m <sup>3</sup>
Melt-flow index	according to ISO 1133	0,3 – 0,5 g/10 min.
Longitudinal expansion coefficient	according to DIN 53752	0,13 mm/m.k.
Colour		black

### Geometric properties and nominal pressures

Outside diameter and wall thickness according to EN 1555 and EN 12201 and DIN 16963.

Comments to:

Outside diameter/relationship towards wall thickness SDR to the nominal pressure PN.

PE 100	SDR 11	nominal pressure PN 16
PE 100	SDR 17	nominal pressure PN 10

Nominal wall thickness is specified in the dimension table under SDR 17. The actual wall thickness of the fittings fulfil SDR 17, 6 and SDR 17.

Nominal pressure PN is calculated with safety factor SF 1,25.

Data does not apply to component part combination according to DIN 16963

(For example: flange joints, screw connections).

For gas purposes:

Max working pressure is not equivalent to nominal pressure.

See DVGW certification VP 608 or regulation of the respective countries.

### Dimensions

z-dimensions

± 3 mm to d = 160 mm

± 10 mm up d = 180 mm

### Chemical resistance

Detailed information about chem. resistance are contained in DIN 8075, regulations 1.

The comments on page 1 of the supplement must be taken into account.

Basically it is to be considered that the specified chemical resistance is not to be assigned to all operating conditions. In case of doubt we recommend queries or to undertake trials by installation of pipes and fittings under the actual operating conditions.

### Quality / certification / DVGW certification

**B-R** fittings are subject to ongoing quality controls, which are part of our comprehensive quality-management system certified according to DIN EN ISO 9001.

The fittings fulfil the requirements of EN 1555-3 and 12201-3 and DIN 16963.

The DVGW certification according to VP 607 is available.

### Working pressure

The allowed operating pressures are defined according to the DVGW certification VP 608.

### Orders

At ordering besides the name of the part the dimension and the order-no should always be specified.

Example: PE 100, elbow 90°, d 110, No. 25.10.01.103

### Identification

The fittings are provided with following identification:

**B-R**, d, PE 100, SDR 11, 1/03

### Legend

d = Nominal outside diameter of the pipe in mm

DN = Nominal diameter

SDR = Standard Dimension Ratio

R = Taper male thread

Rp = parallel female thread

Rc = taper female thread

G = parallel male thread

Stp = standard pack

® = incorporated trade mark

AL = number of bolt holes