PE100 injection-moulded large-diameter pipe fittings

NEW: More than 100 additional articles with large nominal diameters for gas/water/industrial fluids/chemicals and wastewater



PE 100

www.baenninger.de

B-R Bänninger

PE100 injection-moulded large-diameter pipe fittings offering you seven extraordinary benefits

Bänninger has extended its range of PE100 large-diameter long fittings – now available with diameters of up to 500 mm. Such fittings are equally suitable for electrofusion as well as for butt welding. They are proof of Bänninger's competence in manufacturing injection-moulded components with large nominal diameters.

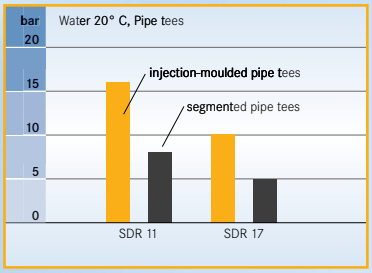
These products are a perfect substitute for

- pressed pipe elbows,
- segmented elbows,
- short elbows with pipe extensions
- and lathed elbows.

Injection-moulded large-diameter fittings made of PE100 offer many convincing benefits in terms of planning, installation, handling, transport and operation:

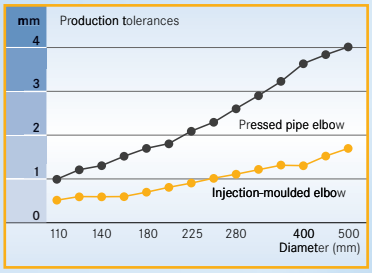
1. Compliant with two SDRs

Injection-moulded fittings are available with Standard Dimension Ratio (SDR) 11 and 17 (according to DIN 8074 and DIN EN ISO 12162). They are approved without any pressure-reduction factor for the same pressure class as the pipes they are connecting. This ensures full utilisation of the pipework along its entire length.



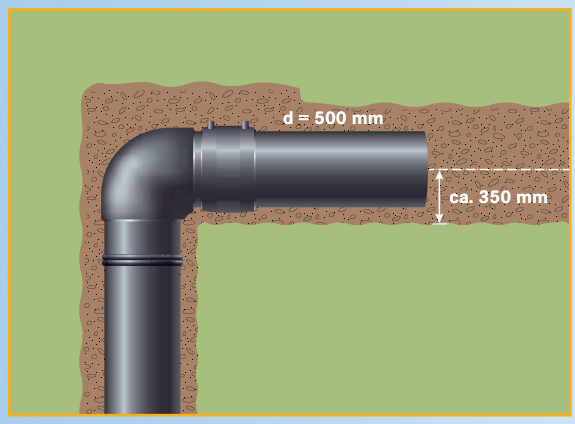
2. Dimensional stability

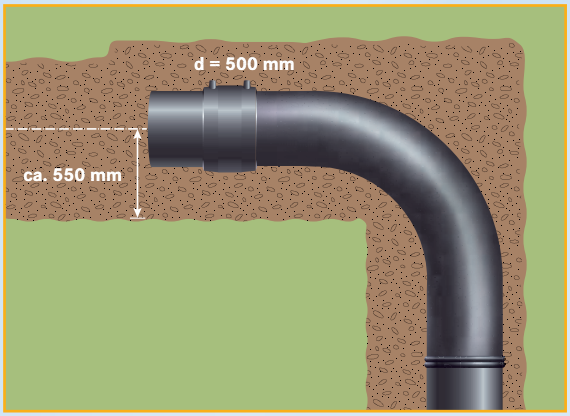
Uniform gap dimensions between fitting and sleeve are a prerequisite for reliable electrofusion. Consistent weld joints across the entire surface can only be achieved if the fittings are perfectly round and have tight tolerances. Injection-moulded fittings made by Bänninger guarantee this high level of reliability.



3. Compact installation dimensions

Bänninger injection-moulded elbow fittings are often the better choice: Thanks to their compact geometry, piping can be installed very close to other structures or lines. When laying pipes underground, less material must be excavated in the corners.





Gas



Water

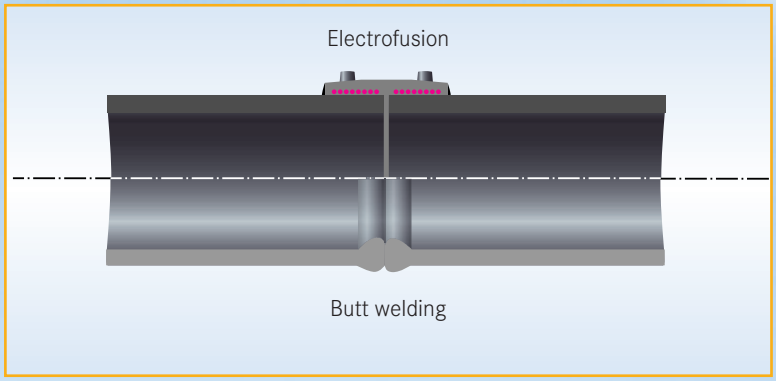


Chemicals



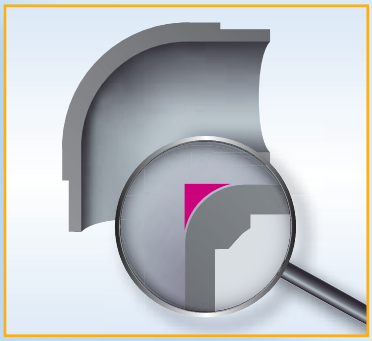
4. Choice of welding method

Injection-moulded large-diameter long fittings made of PE100 can be joined by either welding method. The long pipe sections accept electrofusion as well as butt-welding tools.



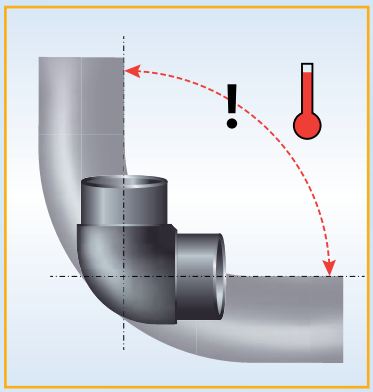
5. Rounded inner radius

90°-elbows from Bänninger with diameters larger than 355 mm are rounded at their inner radius. Flow characteristics are enhanced by optimised production equipment.



6. Suitable for storage

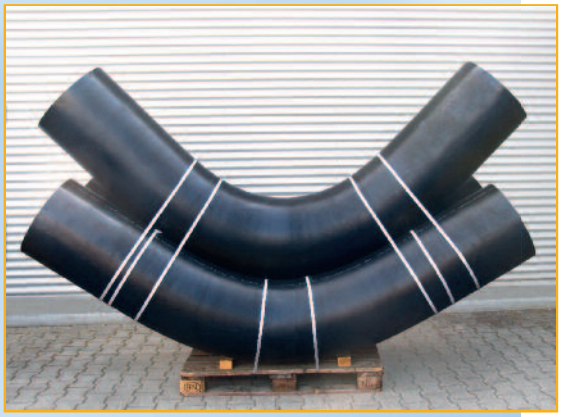
Injection-moulded parts are free of any inherent material stress, thereby retaining their shape even when stored over extended periods and when subject to heat.



7. Space and cost savings

Injection-moulded components made by Bänninger are lighter and smaller. Weight and space requirements for transport and storage are 50% lower, thereby saving transport costs, storage space and handling effort on site.





Industrial fluids



Wastewater



B·R Bänninger

Bänninger long fittings made of PE100

Injection-moulded large-diameter fittings are Bänninger's speciality. The extensive product range featuring numerous types and sizes is more than proof. Just recently another 100 large-diameter fittings have been added to the portfolio. Particularly the range of long variants has been extended as this design can be used universally – for electrofusion as well as for butt welding. Bänninger fittings comply with all requirements for gas and water supply, chemicals, industrial fluids and wastewater.

- Bänninger is a multi-facetted manufacturer of injection-moulded fittings of up to 500 mm in diameter.
- All products are made in Germany, using high-performance injection-moulding equipment.
- Certificates in accordance with DVGW directive VP 608 exist for pressure levels SDR 11 (16 bar) and SDR 17 (10 bar). Further international certificates are available.
- PE materials, product outer diameters and wall thicknesses comply with the following standards:
  EN 1555 "Plastic piping systems for the supply of gaseous fuels" and
  EN 12201 "Plastics piping systems for water supply, and for drainage and sewerage under pressure".
- Certified materials are classified for their long-term stability as PE100 material (MRS).
- Bänninger fittings are subject to continuous quality checks by the Bänninger quality management system.

		25-180	63-180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000
Electrofusion socket	SDR 11	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	SDR 17		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

NEW

		25-180	63-180	200	225	250	280	315	355	400	450	500
Elbow 90°	SDR 11	●		●	●	●	●	●	●	●	●	●
	SDR 17		●	●	●	●	●	●	●	●	●	●
Elbow 45°	SDR 11	●		●	●	●	●	●	●	●	●	●
	SDR 17		●	●	●	●	●	●	●	●	●	●
Elbow 30°	SDR 11	●		●	●							
	SDR 17		●	●	●							

Bänninger offers up to d = 500

● Existing range ● NEW product



The full range of large-diameter products



		25-180	63-180	200	225	250	280	315	355	400	450	500	560	630
Tee 90°	SDR 11	●		●	●	●	●	●	●	●	●	●		
	SDR 17		●	●	●	●	●	●	●	●	●	●		
Tee 90° reduced	SDR 11	●		●	●	●	●	●	●	●	●	●		
	SDR 17		●	●	●			●	●	●	●	●		
Tee 45°	SDR 11	●		●	●									
	SDR 17		●	●	●									
Cap	SDR 11	●		●	●	●	●	●	●	●	●	●		
	SDR 17		●	●	●	●	●	●	●	●	●			
Flanges adaptor	SDR 11	●		●	●	●	●	●	●	●	●	●	●	●
	SDR 17		●	●	●	●	●	●	●	●	●	●	●	●
Reducing bush	SDR 11	●		●	●	●	●	●	●	●		●		
	SDR 17		●	●	●	●	●	●	●	●		●		

NEW

NEW

● Existing range ● NEW product



Accessories for large-diameter fittings

Bänninger offers a comprehensive range of piping accessories with a special focus on large-diameter components. This includes flanges, seals and couplers with diameters of up to 1,000 mm. Bänninger is your one-stop shop for all the piping components you need.
Products include:



PP flange with steel insert, PN 10, drilled

25-180	200	225	250	280	315	355	400	450	500	560	630
●	●	●	●	●	●	●	●	●	●	●	●

Steel flange, coated, PN 10, drilled

710	800	900	1000
●	●	●	●





Flange, PN 16, drilled

	200	225	250	280	315	355	400	450	500	560	630
PP with steel insert	●	●	●	●	●	●	●				
SG iron, coated								●	●	●	●

PP blind flange with steel insert

25-180	200/225	250/280	315	355	400
●	●	●	●	●	●





Flat seal for welding neck

200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Customized flange joint

160-180	200	225	250	280	315	355	400	450	500	560
●	●	●	●	●	●	●	●	●	●	●





Electrofusion device for fittings

Universal electrofusion devices for fittings of any diameter, with and without welding record memory. Options according to specifications: Manual or bar-code data input, data output via USB interface, welding record memory and traceability coding according to ISO 12176-3/4. Just ask us.

Electrofusion plants for butt welding

Bänninger supplies the welding equipment to match: Heater elements, pipe clamps and stripping devices, even for large diameters. Just ask us.



Further long-fitting types with large diameters

In addition to the wide range of injection-moulded large-diameter long fittings, Bänninger also manufactures short variants and pressed elbows. Creating smart solutions for any requirement is our passion.

PE100 fittings from 25 mm in diameter

Bänninger not only offers large-diameter fittings made of PE100. Our portfolio also includes nominal diameters starting from 25 mm for injection-moulded fittings and 90 mm for elbows.

PE100 large-diameter fittings (injection-moulded, short variant)

with smooth ends for butt welding

		25-180	63-180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000
Elbow 90°	SDR 11	●		●	●	●	●	●										
	SDR 17		●	●	●	●	●	●										
Elbow 90°	SDR 11	●		●	●	●	●	●										
	SDR 17		●	●	●	●	●	●										
Elbow 45°	SDR 11	●		●	●	●	●	●										
	SDR 17		●	●	●	●	●	●										
Tee 90°	SDR 11	●		●	●	●	●	●										
	SDR 17		●	●	●	●	●	●										
Tee 90° reduced	SDR 11	●		●	●													
	SDR 17		●	●	●													
Flanges adaptor	SDR 11	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	SDR 17		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Reducing bush	SDR 11	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	SDR 17		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

NEW

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PE100 elbows (seamless, pressed, long variant)

shaped from a pipe section in accordance with DIN 16 963 part 3, for electrofusion and butt welding

		90-180	200	225	250	280	315	355	400	450	500	560	630	710	800
Elbow 90°	SDR 11	●	●	●	●	●	●	●	●	●	●				
	SDR 17	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Elbow 60°	SDR 11	●	●	●	●	●	●	●	●	●	●	●			
	SDR 17	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Elbow 45°	SDR 11	●	●	●	●	●	●	●	●	●	●	●			
	SDR 17	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Elbow 30°	SDR 11	●	●	●	●	●	●	●	●	●	●	●			
	SDR 17	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Elbow 22°	SDR 11	●	●	●	●	●	●	●	●	●	●	●			
	SDR 17	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Elbow 11°	SDR 11	●	●	●	●	●	●	●	●	●	●	●			
	SDR 17	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Existing range ● NEW product

NEW



Made in Germany

Excellent supply reliability

All PE-, PP- and PVC-U fittings are manufactured in Reiskirchen in the German state of Hesse which is also home to the headquarters and central parts store of Bänninger Kunststoff-Produkte GmbH. 10,000 m^2 of high racks and 20,000 m^2 of outdoor storage provide enough room to stock the entire product portfolio. Flexible manufacturing combined with extensive stock space and professional logistics ensure short delivery times.

Large dealer network

A tight network of specialist dealers provides the support and assistance needed on site. Numerous partners around the world ensure prompt delivery and international market presence.

Service for proper utilisation

Planning, processing and installing pipework made of PE100 is a technical challenge. Supported by our consulting services, presentations, on-site training sessions and instructions, your project is destined for success. If you have any questions, please do not hesitate to contact us.

Comprehensive information material

Catalogues, product brochures and other information material are available as hardcopy and also in electronic form from our website. 3D-data is also available for standard formats. This is the basis for any detailed planning and the use of our products in piping projects.

Comprehensive certification

Bänninger is certified in accordance with DIN EN ISO 9001:2008. Bänninger products are tested and approved and certified for all relevant areas of application around the world. Just ask us.







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