

# Pipe Systems

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## Plastic Piping Systems

Do you know the advantages?



### Advantages of PE

Plastic pipes have a good hydraulic behavior due to their smooth surface and therefore, in contrast to, for example, metal pipes, significantly lower pressure losses. Compared to conventional materials, PE is characterized by its low weight. This ensures easy handling during installation.

Due to the flexible production of individual radii and angles, even demanding construction projects can be realized comfortably. The installation by means of coupler-, butt- and electrofusion welding is also extremely efficient and ensures a fully welded pipeline system with a service life > 50 years.

### Advantages of PE 100 RC

In addition to the benefits of PE 100, PE 100 RC has the following features:

- particularly high resistance to crack
- high resistance to point loads (e.g. stones)
- increased resistance to slow crack growth

PE 100 RC is the further development of the material PE 100. Due to its structure, PE 100 RC has a particularly high resistance to crack. The high chemical resistance against crack-inducing media amongst others adds to the overall crack resistance.

## Product overview



- highly durable
- chemically resistant
- cost-effective
- resistant to UV and weather
- physiologically safe
- ecologically friendly
- wide range of applications
- high flexibility

also applies to PE 100 RC

### Industrial pipe

PE100  
SDR 17 d 63 – 1400  
SDR 11 d 20 – 1000  
SDR 7,4 d 20 – 355

PE100 RC  
SDR 17 d 63 – 1400  
SDR 11 d 20 – 1000  
SDR 7,4 d 20 – 355

### Drinking water pipe

Coex, PE100 RC  
SDR 17 d 63 – 630  
SDR 11 d 20 – 630  
SDR 7,4 d 20 – 355

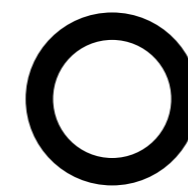
with strips, PE100 RC  
SDR 17 d 63 – 1400  
SDR 11 d 20 – 1000  
SDR 7,4 d 20 – 355

### Gas pipe

Coex, PE100 RC  
SDR 17 d 63 – 630  
SDR 11 d 32 – 630

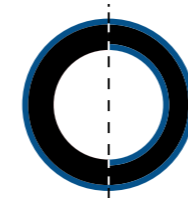
with strips, PE100 RC  
SDR 17 d 63 – 630  
SDR 11 d 32 – 630

## Technical Details



### What are single-layer pipes?

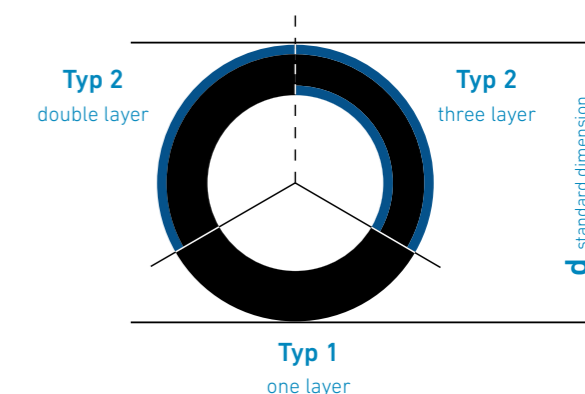
Single-layer pipes are solid wall pipes whose wall consists of only one material and color. Optionally these tubes are available with blue, red, orange or brown stripes.



### What are multi-layer pipes?

By using the co-extrusion process, the outer and/or inner layer are usually given a coloring, while maintaining the standard dimension. The outer diameter as well as the wall thickness of the pipe remain unchanged.

### Overview conform to PAS 1075



### Waste-water pressure pipe

PE100 RC  
SDR 17 d 63 – 1400  
SDR 11 d 20 – 1000



### Sewage pipe

PE80  
SDR 17,6 d 160 – 630



### Cable protection pipe

on request

## Ratings for pressure pipe PE 100 & PE 100 RC:

SDR Diameter- wall thickness ratio	S pipe series	PN pipe	
		Water max. operating pressure in bar [C = 1,25]	Gas max. operating pressure in bar[C = 2]
41	20	4	-
33	16	5	-
26	12,5	6	-
21	10	8	-
17	8	10	5*
13,6	6,3	12,5	-
11	5	16	10
9	4	20	12,5**
7,4	3,2	25	-

The indicated operating pressures apply for an operating temperature of 20°C.

\* Operating pressure according to DVGW: 4 bar  
\*\* only valid for the Russian market



We provide you with high-quality and efficient solutions for applications in supply and disposal.

In addition to our high-quality standard and special fittings, seamless bends, electrofusion fittings, pipes and hollow bars and solid rods, we also offer suitable welding equipment for joining and welding technique.

Our extensive product range gives you the possibility to obtain every-thing from a single source and for almost every building project.

See for yourself.

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