

## Water-bearing pipe 12x1,3mm RIVIERA System

Flexible pipe (PB 12 x 1,3 mm) according to DIN 16968 as thermal regulation device for the RIVIERA system

Oxygen impermeability acc. to DIN 4726

### Characteristics

Flexible pipe as thermal regulation device for installation in the RIVIERA System, PB 12 x 1,3 mm.

### Material

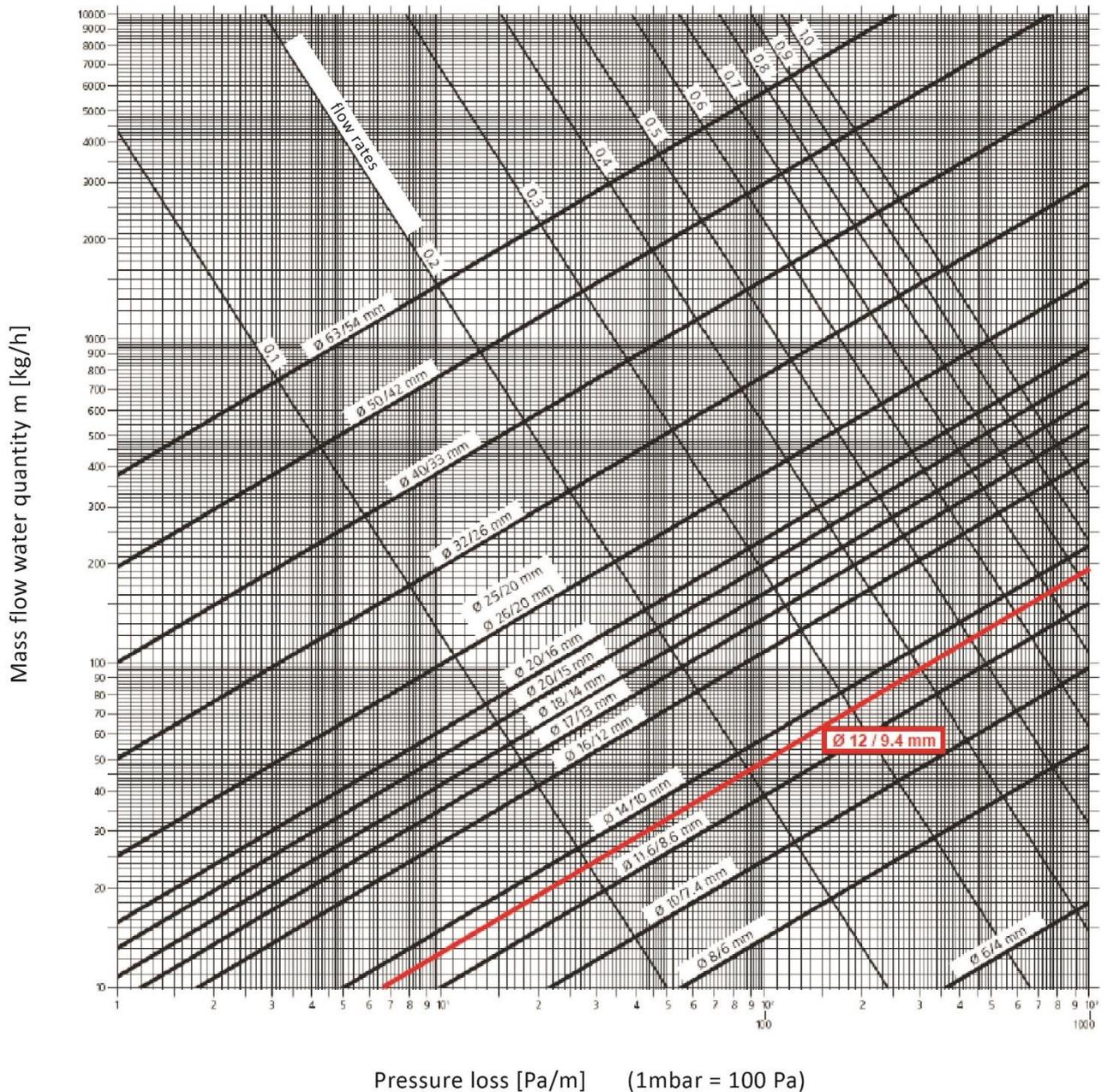
Three-layered polybutene.

### Key figures (According to DIN required values in brackets)

Outer pipe diameter	12 mm
Pipe wall thickness	1,3 mm
Rohrinnendurchmesser	9,4 mm
Smallest bend radius without bending aid	60 mm
Density	0,920 g/cm <sup>3</sup>
Weight per meter	42 g/m
Water content	0,069 l/m
Linear expansion coefficient	0,13 mm/(mK)
Thermal admission resistance	0,0059 m <sup>2</sup> K/W
Thermal conductivity at 20°C acc. to DIN 52612	0,22 W/mK
Maximum operative temperature, over 50 years	70 °C
Maximum operative temperature, max. 1 year	90 °C
Fail-safe temperature, max. 100 hours	100 °C
Maximum operating pressure, Application grade 4/5	8 bar
Inner surface roughness	0,007 mm
Oxygen impermeability acc. to DIN 4726	< 0,1 g/m <sup>3</sup> d
Tensile stress at yield acc. to ISO 527	17-20 N/mm <sup>2</sup>
Tensile strength acc. to DIN 527	40 n/mm <sup>2</sup>
Ultimate elongation acc. to DIN 527	320 %
Young's modulus at 20°C acc. to DIN 53328	450 N/m <sup>2</sup>
Tolerance inner diameter	+ 0,3 / - 0 mm
Tolerance outer diameter	+ 0,3 / - 0 mm
Tolerance wall thickness	+ 0,2 / - 0 mm
Ovality	max. 0,35 mm



Pressure drop chart (T = 40 °C, wall roughness  $\epsilon = 0.007$  mm)



Forms of delivery

Length in m	area m <sup>2</sup> in the RIVIERA System	Article number
250	ca. 21,19	WHR1213250

Storage

Material is indefinitely storable with dry and UV-protected storage.



### Yield

Given lengths relate to the narrowest possible installation for the RIVIERA system. In practice the installation is based on the calculated length of the pipe and local conditions. For a low heating load installation is possible into every second or third groove to achieve an even heat emission.

### Application

Flexible pipe for installation into the ArgillaTherm RIVIERA system panel. Install into the continuous groove in a meandering shape. Caution! Should incorrect handling cause a kink, pipe must be replaced! Press the pipe into the inversion in opposite installation direction at every turn. Subsequently coat with the ArgillaTherm clay final plaster.

Please refer to the RIVIERA system instruction manual for more precise processing directions.

### System products

#### *ArgillaTherm clay- dry construction board RIVIERA System*

Dry construction board as mounting aid for flexible water-bearing pipe.

#### *ArgillaTherm clay final plaster No. 1-2*

Machinable clay plaster ready-mix acc. to DIN 18947.

#### *ArgillaTherm clay finish plaster No. 2-2*

Ready-mix for preparation of white thin layer coating according to DVL TM 06.

#### *ArgillaTherm clay paint No. 3-2*

Sprayable and brushable clay paint.

#### *Thermostat AT-3R*

Thermostat according to DIN EN 60730, protection class II, for finery or flush mounting.