



# FibreFlex<sup>®</sup> Pro 16

Pre-insulated, flexible pipe system with fiber-reinforced medium pipe for use up to 115°C and 16 bar.

Thanks to the finer-meshed high-temperature fiber mesh made of aramid, the FibreFlex Pro 16 pipe system can be used up to a maximum operating temperature of 115 °C and a pressure of up to 16 bar.

The FibreFlex Pro pipe system thus combines the advantages of a flexible pipe system with the operating properties of KMR steel pipe systems and therefore represents an innovative, cost-effective alternative.

Type	Dimension	Casing	Max. Coil length	Weight/Meter	Bending-radius
<b>UNO/IS1</b>	[mm]	[mm]	[m]	kg	r in m
50/111	47.6x3.6	111	410	2.00	0.90
63/126	58.5x4.0	126	300	2.40	1.00
75/142	69.5x4.6	142	220 (*440)	2.90	1.10
90/162	84.0x6.0	162	150 (*300)	4.00	1.20
110/162	101.0x6.5	162	150 (*300)	4.30	1.20
<b>UNO/IS2</b>	[mm]	[mm]	[m]	kg	r in m
50/126	47.6x3.6	126	300	2.20	1.00
63/142	58.5x4.0	142	220 (*440)	2.70	1.10
75/162	69.5x4.6	162	150 (*300)	3.50	1.20
90/182	84.0x6.0	182	86 (*170)	4.70	1.30
110/182	101.0x6.5	182	86 (*170)	5.00	1.20
<b>DUO/IS1</b>	[mm]	[mm]	[m]	kg	r in m
50+50/162	2x47.6x3.6	162	150 (*300)	3.60	1.20
63+63/182	2x58.5x4.0	182	86 (*170)	4.50	1.30
75+75/202	2x69.5x4.6	202	80 (*160)	5.70	1.40
90+90/225	2x84.0x6.0	225	75 (*150)	7.30	1.60
<b>DUO/IS2</b>	[mm]	[mm]	[m]	kg	r in m
50+50/182	2x47.6x3.6	182	86 (*170)	4.30	1.30
63+63/202	2x58.5x4.0	202	80 (*160)	5.30	1.40
75+75/225	2x69.5x4.6	225	75 (*150)	6.60	1.60

The specified maximum Coil lengths refer to the standard maxi-coil dimensions of (height x width) 2950x1200 mm. Project Coil lengths are available up to (\*) = (height x width) 2950x2400mm.



1. PE-Xa service pipe
2. Temperature-resistant adhesive layer
3. Fine mesh, high temperature aramid fibre mesh
4. Temperature-resistant adhesive layer including oxygen diffusion barrier
5. Service pipe outer layer
6. Flexible Polyurethane-Foam (PUR)
7. Casing

## Technical data:

**Max. continuous operating temperature:** +95°C (seasonal)

**Max. operating temperature:** +115°C (variable\*)

**Thermal conductivity:** 0.021 W/mK

**Operating pressure:** 16 bar

**Service pipe:** PE-Xa with aramid reinforcement

**Thermal insulation:** PUR, CFC-free cyclopentane-based

**Casing:** corrugated PE-LLD

FibreFlex Pro pipe systems are designed for a service life of at least 30 years with the following temperature profile:

**\*29 years at 90°C + 1 year at 100°C + 100h at 115°C**  
**or**  
**Winter heating season 95°C + Summer heating season 85°C**

Further temp./time profiles can be used in accordance with ISO 13760 (Miners rule). The maximum operating temperature must not exceed 115°C.