Page 5

1. PE-Xa service pipe 2. Adhesive layer
3. Aramid fibre mesh 4. Adhesive layer including oxygen diffusion barrier
5. Service pipe outer layer 6. Flexible Polyurethane-Foam (PUR) 7. Casing

Pre-insulated, flexible pipe system, with a service pipe made of fibrereinforced, crosslinked polyethylene and PUR thermal insulation.

Thanks to the aramid fiber mesh, the pipe wall thicknesses could also be reduced and, due to the resulting smaller outside diameter, the insulation could be improved.

Compared to conventional flexible pipe systems, media can be transported at a pressure of 10 bar at a continuous operating temperature of + 80 ° C.

FibreFlex

®

Technical data:

Max. continuous
operating temperature:

Thermal conductivity:

Operating pressure:

Service pipe:

Thermal insulation:

Casing:

+80°C

0.021 W/mK

10 bar

PE-Xa with aramid
reinforcement

PUR, CFC-free
cyclopenthane-based

corrugated PE-LLD

Max. operating
temperature:

+95°C (variable*)

Pipe systems, based on EN 15632-2, are designed for a service life of 50 years.
Other temp./time profiles are applicable according to ISO 13760 (Miners rule).

For example:
*29 years at 80°C + 1 year at 90°C + 100h at 95°C
or

Winter heating season 85°C + Summer heating season 75°C

The maximum operating temperature must not exceed 95°C.

Type Dimension Casing

Max. Coil
length

Weight/
Meter

Bending-
radius
UNO/IS1 [mm] [mm] [m] kg r in m
25/76 25.0x2.2 76 570 1.10 0.70
32/76 32.0x2.5 76 570 1.10 0.70
40/91 40.0x2.8 91 570 1.90 0.90
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
125/182 116.0x6.8 182 86 (*170) 5.10 1.30
140/202 127.0x7.1 202 80 (*160) 6.30 1.60
160/225 144.0x7.5 225 75 (*150) 7.70 1.60
UNO/IS2 [mm] [mm] [m] kg r in m
25/91 25.0x2.2 91 570 1.30 0.90
32/91 32.0x2.5 91 570 1.30 0.90
40/111 40.0x2.8 111 410 1.90 0.90 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 1.30
125/202 116.0x6.8 202 80 (*160) 6.00 1.40
140/225 127.0x7.1 225 75 (*150) 7.50 1.60
DUO/IS1 [mm] [mm] [m] kg r in m
25+25/91 2x25.0x2.2 91 570 1.40 0.70
32+32/111 2x32.0x2.5 111 410 1.90 0.90
40+40/126 2x40.0x2.8 126 300 2.60 0.90
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
DUO/IS2 [mm] [mm] [m] kg r in m
25+25/111 2x25.0x2.2 111 410 1.80 0.90
32+32/126 2x32.0x2.5 126 300 2.30 0.90
40+40/142 2x40.0x2.8 142 220 (*440) 2.90 1.00
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.