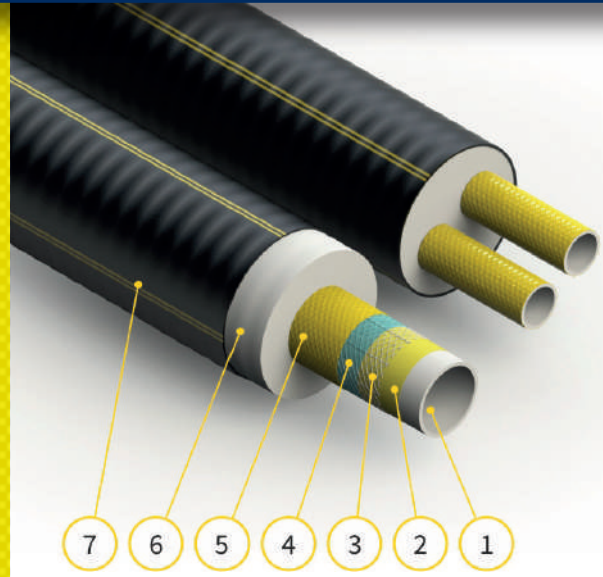


Pre-insulated, flexible pipe system, with a service pipe made of fibre-reinforced, crosslinked polyethylene and PUR thermal insulation.

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.



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

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

Technical data:

Max. continuous operating temperature: +80°C

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

Thermal conductivity: 0.021 W/mK

Operating pressure: 10 bar

Service pipe: PE-Xa with aramid reinforcement

Thermal insulation: PUR, CFC-free cyclopentane-based

Casing: corrugated PE-LLD

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.