

HEAT FLEX

Pre-insulated PEX-a flexible pipe system for heating applications

Technical Specification

Max continuous operating temperature: +176°F (+80°C)

Max variable operating temperature: +203°F (+95°C)

Max operating pressure: 87 psi at +176°F

Insulation thermal conductivity: ≤ 0.146 Btu·in/ft²·°F

Service pipe: PEX-a

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

Jacket pipe: corrugated PE-HD

Applications:

Heating networks, local district heating networks.

Description:

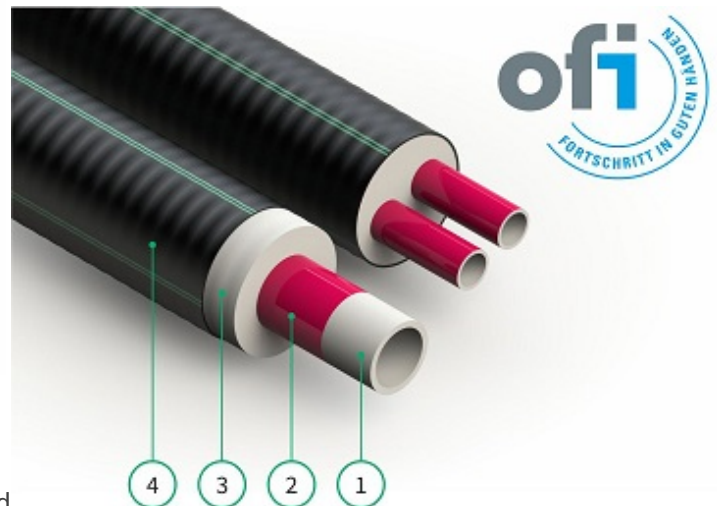
Cross-linked (by peroxide method) polyethylene PEX-a SDR 11 service pipe is used for HEAT FLEX pipes with maximum 87 psi operating pressure at 176°F continuous operating temperature (application temperature profile according to EN 15632-2:2015).

EVOH barrier layer for service pipe prevents oxygen penetration into heating network.

Highly efficient cyclopentane-based PUR foam insulation gives a very low thermal conductivity value of ≤ 0.146 Btu·in/ft²·°F.

To accommodate the varying heat loss requirements of the pipe network, HEAT FLEX pipes are available with a range of insulation thickness options to suit the required system insulation class (only standard insulation series S1 is mentioned).

HEAT FLEX pipe system is manufactured in full accordance with EN 15632:2015 and OFI CERT ZG 200-1 Technical Specification.



1. PEX-a service pipe
2. Oxygen diffusion barrier
3. Semi-flexible polyurethane foam
4. Jacket pipe



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HEAT FLEX

Container Delivery

Pipe coil dimensions for 40' HC container deliveries

| HEATFLEX UNO | | | Standard coils | | | | Maxi coils | | | | |
|-------------------------------|-------|------|-----------------|------|------|-------------------------|-----------------|------|------------------------------|----------------|--|
| Pipe diameters core/jacket | | | Coil dimensions | | | Pipe length | Coil dimensions | | | Pipe length | |
| | | | ID | OD | Wide | | ID | OD | Wide | | |
| mm/mm | Inch | Inch | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | |
| 25 / 76 | 1" | 3" | 5.3 | 8.3 | 2.3 | 919 | 5.3 | 8.3 | 3.4 | 1345 | |
| 32 / 76 | 1.25" | 3" | 5.3 | 8.3 | 2.3 | 919 | 5.3 | 8.3 | 3.4 | 1345 | |
| 25 / 91 | 1" | 3.5" | 5.3 | 8.3 | 2.3 | 558 | 5.3 | 8.3 | 3.4 | 886 | |
| 32 / 91 | 1.25" | 3.5" | 5.3 | 8.3 | 2.3 | 558 | 5.3 | 8.3 | 3.4 | 886 | |
| 40 / 91 | 1.5" | 3.5" | 5.3 | 8.3 | 2.3 | 558 | 5.3 | 8.3 | 3.4 | 886 | |
| 40 / 111 | 1.5" | 4" | 5.3 | 8.3 | 2.3 | 492 | 5.3 | 8.3 | 3.4 | 755 | |
| 50 / 111 | 2" | 4" | 5.3 | 8.3 | 2.3 | 492 | 5.3 | 8.3 | 3.4 | 755 | |
| 50 / 126 | 2" | 5" | 5.3 | 8.3 | 2.3 | 295 | 5.3 | 8.3 | 3.4 | 492 | |
| 63 / 126 | 2.5" | 5" | 5.3 | 8.3 | 2.3 | 295 | 5.3 | 8.3 | 3.4 | 492 | |
| 63 / 142 | 2.5" | 5.5" | 5.9 | 8.3 | 2.3 | 197 | 5.9 | 8.3 | 3.4 | 295 | |
| 75 / 142 | 3" | 5.5" | 5.9 | 8.3 | 2.3 | 197 | 5.9 | 8.3 | 3.4 | 295 | |
| 75 / 162 | 3" | 6" | 6.1 | 8.3 | 2.3 | 164 | 6.1 | 8.3 | 3.4 | 262 | |
| 90 / 162 | 3.5" | 6" | 5.9 | 8.3 | 2.3 | 164 | 5.9 | 8.3 | 3.4 | 262 | |
| 110 / 162 | 4" | 6" | 5.9 | 8.3 | 2.3 | 164 | 5.9 | 8.3 | 3.4 | 262 | |
| | | | | | | Maxi coils HC container | | | Tall Maxi coils OT container | | |
| 110 / 182 | 4" | 7" | 6.5 | 8.3 | 3.4 | 98 | 6.5 | 9.4 | 3.4 | 262 | |
| 125 / 182 | 5" | 7" | 6.5 | 8.3 | 3.4 | 98 | 6.5 | 9.4 | 3.4 | 262 | |
| 110 / 202 | 4" | 8" | 6.5 | 8.3 | 3.4 | 98 | 6.5 | 9.4 | 3.4 | 262 | |
| 125 / 202 | 5" | 8" | 6.5 | 8.3 | 3.4 | 98 | 6.5 | 9.4 | 3.4 | 262 | |



Delivered vertically

Pipe coil dimensions for 40' HC container deliveries

| HEATFLEX DUO | | | Standard coils | | | | Maxi coils | | | | |
|-------------------------------|--------------|------|-----------------|------|------|-------------------------|-----------------|------|------------------------------|----------------|--|
| Pipe diameters core/jacket | | | Coil dimensions | | | Pipe length | Coil dimensions | | | Pipe length | |
| | | | ID | OD | Wide | | ID | OD | Wide | | |
| mm/mm | Inch | Inch | Feet | Feet | Feet | Feet | Feet | Feet | Feet | Feet | |
| 25+25 / 91 | 1"+1" | 3.5" | 5.3 | 8.3 | 2.3 | 558 | 5.3 | 8.3 | 3.4 | 886 | |
| 32+32 / 111 | 1.25" +1.25" | 4" | 5.3 | 8.3 | 2.3 | 492 | 5.3 | 8.3 | 3.4 | 755 | |
| 40+40 / 126 | 1.5"+1.5" | 5" | 5.3 | 8.3 | 2.3 | 295 | 5.3 | 8.3 | 3.4 | 492 | |
| 50+50 / 162 | 2"+2" | 6" | 6.1 | 8.3 | 2.3 | 164 | 6.1 | 8.3 | 3.4 | 262 | |
| | | | | | | Maxi coils HC container | | | Tall Maxi coils OT container | | |
| 63+63 / 182 | 2.5"+2.5" | 7" | 6.5 | 8.3 | 3.4 | 98 | 6.5 | 9.4 | 3.4 | 262 | |
| 75+75 / 202 | 3"+3" | 8" | 6.5 | 8.3 | 3.4 | 98 | 6.5 | 9.4 | 3.4 | 262 | |



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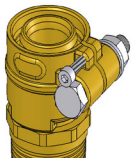
HEAT FLEX

Fittings and Accessories



HEAT FLEX pipes are connected using press or clamp connectors of different configurations (weld adaptors, couplers, elbows, tees).

The installation of the press connector requires pipe end to be expanded before placing the metal insert into the pipe; this is followed by the compression of the outer sleeve onto the pipe's outer surface with use of industry standard PEX press tool.

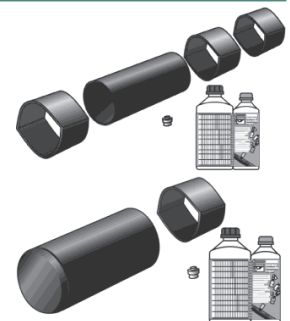


To install NPT thread or weld end clamp connectors, expansion of pipe end is not required. Compression of outer sleeve is done with use of conventional nut driver without need of any special tooling.

HEAT FLEX Sleeve Heat Shrinks and Dead End Sleeve Heat Shrinks

A range of PE-HD shrink sleeves, double sealed with adhesive
Incl. 3 pc. shrink collar, PUR-foam components, vent plug and PE closure plug.

PE-HD end caps, incl. adhesive, shrink collar and PUR-foam components for insulation of pipe ends.



Insulation Shells for HEAT FLEX

Insulation Shells of different configurations are available for HEAT FLEX pipes joints (Straight, T-Branch, Elbow 90 Degree). Combined with special design Sealing Rings they provide reliable insulation for all types of connectors, these insulation shells are quick and easy to install without the requirement for special tooling.

HEAT FLEX Pre-insulated fittings

A range of insulated pre-fabricated steel fittings complete with press fitting adapters are available for HEAT FLEX pipe systems.

When insulating the joints, a heat-shrink insulated casing joint is used.



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