

Instruction Manual

INSULATED PIPES



EN
v. 1.2

Regulus

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1 PRE-INSULATED SINGLE PIPE

1.1 Technical description

Flexible stainless steel pipe for easier connection to a solar collector, solar pump station, storage water heater etc.



SINGLE STAINLESS STEEL PIPE	Size	Length	Code
DN16 Stainless steel pipe, 10m long, incl. 13mm insulation, 4 union nuts G 3/4", with lock rings, gaskets and a nipple	DN16	10 m	12899
DN16 Stainless steel pipe, 30m long, incl. 13mm insulation, 4 union nuts G 3/4", with lock rings, gaskets and a nipple	DN16	30 m	12901
DN16 Stainless steel pipe, 50m long, incl. 13mm insulation	DN16	50 m	12902
DN20 Stainless steel pipe, 10m long, incl. 13mm insulation, 4 union nuts G 1", with lock rings, gaskets and a nipple	DN20	10 m	12903
DN20 Stainless steel pipe, 30m long, incl. 13mm insulation, 4 union nuts G 1", with lock rings, gaskets and a nipple	DN20	30 m	12905
DN20 Stainless steel pipe, 50m long, incl. 13mm insulation	DN20	50 m	12906
DN16 Stainless steel pipe, 10m long, incl. 19mm insulation, 4 union nuts G 3/4", with lock rings, gaskets and a nipple	DN16	10 m	12911
DN16 Stainless steel pipe, 50m long, incl. 19mm insulation	DN16	50 m	12914
Two G 3/4" nipples for DN16 stainless steel pipe - kit	DN16	-	9644
Two G 1" nipples for DN20 stainless steel pipe - kit	DN20	-	9645
Wall mounted pipe clamps for DN16 and DN20 single stainless steel pipes – kit of 4	DN16+ DN20	-	12932



12932



9644 and 9645

1.2 Integrated piping system composition

- stainless steel corrugated pipes
- insulation, made of EPDM
- black PE surface, UV resistant

1.3 Thermal insulation for single pipes

Thermal insulation is made of EPDM, light, flexible, closed-cell, synthetic rubber; PVC and CFC-free. It is soft and flexible.

It features long-term thermal stability up to +175 °C; short-term up to +230 °C (stagnation temperature of collectors).

2 TWIN STAINLESS STEEL PIPES

2.1 Technical description

Two stainless steel corrugated tubes, splittable for easier connection to a solar collector, solar pump station, storage water heater etc.



DOUBLE STAINLESS STEEL PIPE	Size	Length	Code
DN16 Twin stainless steel pipe, 10m long, incl. 13mm insulation and cable, 4 union nuts G 3/4", with lock rings, gaskets and a nipple	DN16	10 m	9916
DN16 Twin stainless steel pipe, 15m long, incl. 13mm insulation and cable, 4 union nuts G 3/4", with lock rings, gaskets and a nipple	DN16	15 m	9619
DN16 Twin stainless steel pipe, 50m long, incl. 13mm insulation and cable	DN16	50 m	10564
DN20 Twin stainless steel pipe, 10m long, incl. 13mm insulation and cable, 4 union nuts G 1", with lock rings, gaskets and a nipple	DN20	10 m	9917
DN20 Twin stainless steel pipe, 15m long, incl. 13mm insulation and cable, 4 union nuts G 1", with lock rings, gaskets and a nipple	DN20	15 m	9620
DN20 Twin stainless steel pipe, 50m long, incl. 13mm insulation and cable	DN20	50 m	10565
Kit of four G 3/4" union nuts with lock rings, gaskets and a nipple for a DN16 stainless steel pipe	DN16	-	9644
Kit of four G 1" union nuts with lock rings, gaskets and a nipple for a DN20 stainless steel pipe	DN20	-	9645
Wall mounted pipe clamps for DN16 twin stainless steel pipes – kit	DN16	-	9641
Wall mounted pipe clamps for DN20 twin stainless steel pipes – kit	DN20	-	9646



9641 and 9646



9644 and 9645

2.2 Integrated piping system composition

- 2 stainless steel corrugated pipes
- insulation, made of EPDM
- black PE surface, UV resistant
- sensor cable 2 x 0.75 mm², silicone insulation

2.3 Thermal insulation for twin pipes

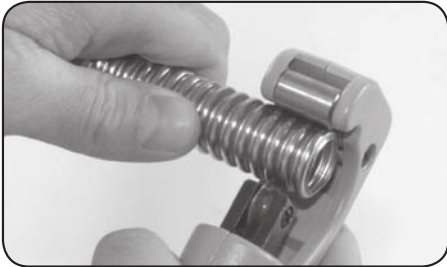
Thermal insulation is made of EPDM, light, flexible, closed-cell, synthetic rubber, PVC and CFC-free. It is soft and flexible.

It features long-term thermal stability up to +175 °C; short-term up to +230 °C (stagnation temperature of collectors).

The tubes are marked in order to avoid any confusion between feed/return.

2.4 Assembly instructions

1. Cut the pipe



Cut the corrugated pipe at the desired place with a pipe cutter.

2. Is the cut piece free of burrs?



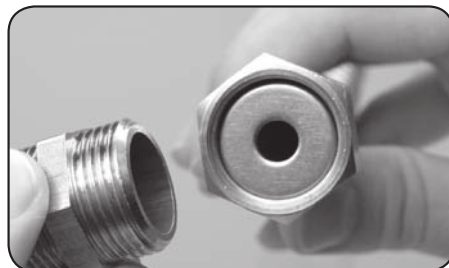
Check the cut pipe and remove any possible burrs.

3. Fit the lock ring



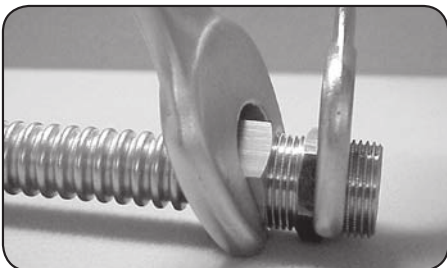
Put the union nut onto the corrugated pipe, insert the lock ring in the first trough and push together.

4. Insert the large diameter washer



Hold the union nut with tongs or hold lightly in a vice. Insert the large diameter washer into the union nut.

5. Tighten the double nipple



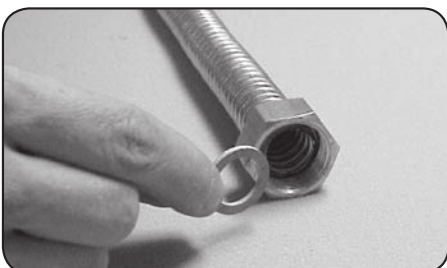
Tighten the double nipple to close up the existing trough to an evenly sealed position.

6. Remove the double nipple and large diameter washer



Take the double nipple and large diameter washer out again.

7. Insert the flat seal



Insert the gasket and check for proper position of the lock ring.

8. Turning in the appropriate fitting

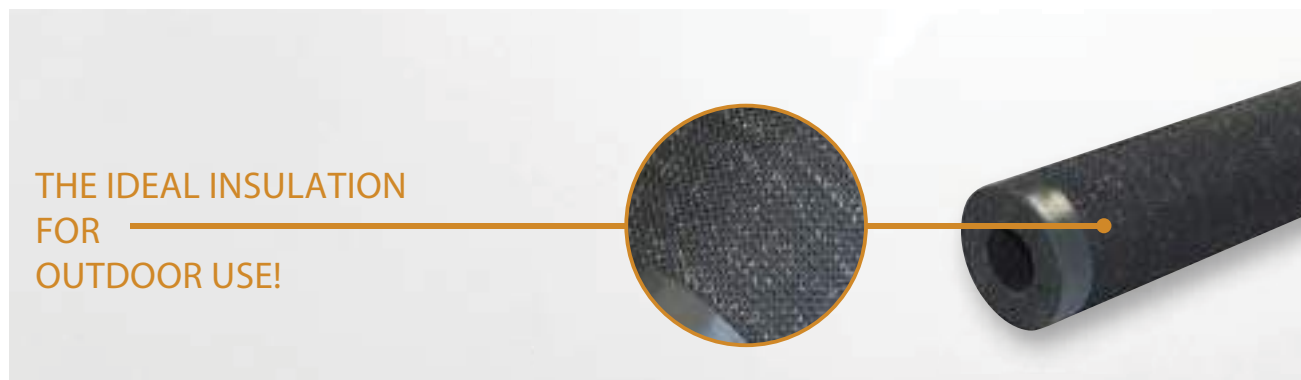


Turn in the appropriate fitting into the connecting nut (for example: fitting with external thread x compression fitting).

3 Insulation with surface protection

3.1 Technical description

Thermal insulation covered with polyester wire mesh. Its surface is highly UV-resistant and weatherproof. It is usually used as insulation exposed to weather. It is gnaw-resistant.



	Size	Length	Code
Insulation diam. 18 - insulation thickness 26 mm, surface protection	inner diam. 18 mm, 26 mm thick	2m	9648
Insulation diam. 22 - insulation thickness 26 mm, surface protection	inner diam. 22 mm, 26 mm thick	2m	9649
Insulation diam. 28 - insulation thickness 25 mm, surface protection	inner diam. 28 mm, 25 mm thick	2m	9650

3.2 Thermal insulation

Thermal insulation is made of EPDM, light, flexible, closed-cell, synthetic rubber, PVC and CFC-free.

It features long-term thermal stability up to +150 °C; short-term up to +175 °C (stagnation temperature of collectors). Very good ozone resistance, UV-resistant, weatherproof.

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