Flexible stainless steel insulated piping SolarFlex

NA3500











Function

SolarFlex is a system solution with pre-insulated flow and return pipes for solar hot water heating systems used to connect the solar collector with the storage tank in an easy, quick and professional way. It optimizes thermal efficiency of the entire system. The pre-insulation solution of two flexible stainless steel pipes inside two EPDM closed cell insulation and the integrated sensor cable, saves time and reduces cost of installation. SolarFlex is packaged in a 50-foot continuous coil with a complete range of accessories to ensure a smoothand secure installation.

General

- Easy to install, enabling pipes to be run without using a torch in confined spaces or on the roof.
- · Ensures a leak-free installation.
- Easy to separate, without damaging the tubes.
- External copolymer foil protects against UV radiation and mechanical strain.
- · Identification mark for flow and return.
- Meets highest requirements for modern solar heating systems.
- Pre-insulated feed and return pipes can be joined easily without special tools.

Product range

NA3520-15
NA3540-15
NA3540-B
NA3560-15
NA3560-15
NA3540-B
NA3560-15

1" - 0.0509 gallons (0.19 liters)

ASTM C 177

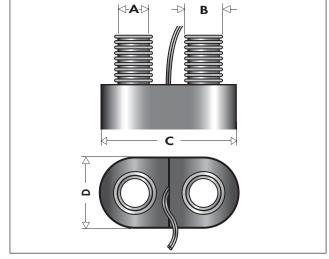
Technical specifications

Materials:

- pipe: two corrugated stainless steel 316L two closed cell elastomer UV resistance EPDM - insulation: UV resistant polyolefin copolymer foil - outer cover: Insulation thickness: 5/8 inch (16mm) 0.215 BTU-in/hr-ft²-°F (0.031 W/mK) Thermal conductivity: R-4.2 Thermal resistance: Max. working pressure: 150 psi (10 bar) Max. fluid temperature: 350°F (175°C) -60°F (-50°C) Min. surface temperature: 50 feet (15m) Length per coil: 1/2" - 0.0219 gallons (0.08 liters) Fluid capacity per foot: 3/4" - 0.0346 gallons (0.13 liters)

Min. bending radius: 5 inch (130mm)
Pessure loss: Approx. 25% more than in a comparable smooth pipe
Flammability: Class VO
Flame spread/smoke density 25/50
Agency approvals: ASTM D 635

Dimensions



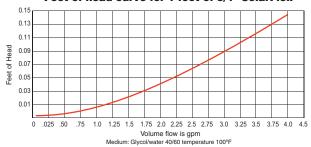
Code	Α	В	С	D	Weight (lb/f)
NA3520-15	1/2"	11/16"	4"	2"	0.4
NA3540-15	3/4"	15/16"	4 - 3/8"	2 - 1/8"	0.5
NA3560-15	1"	1-1/4"	4 - 7/16"	2 - 1/2"	0.7



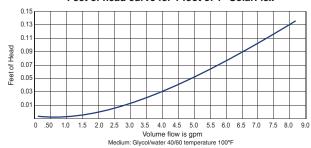
Hydraulic characteristics

Feet of head curve for 1 foot of 1/2" SolarFlex 0.15 0.13 0.11 0.07 0.09 0.09 0.05 0.03 0.01 0.125 25 325 50 625 75 875 1.0 125 1.375 1.5 1.625 1.75 1.875 2.0 2.25 2.5 Volume flow is gpm Medium: Glycol/water 40/60 temperature 100°F

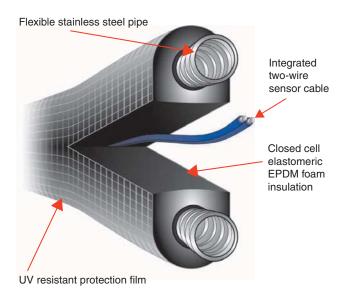
Feet of head curve for 1 foot of 3/4" SolarFlex



Feet of head curve for 1 foot of 1" SolarFlex



Construction details







Flow and return pipes are easy to separate without damaging the insulation or sensor cable.

Item	Code	Description			
SolarFlex pipe hangers					
	NA12132	Pipe hangers 1/2" pack of 4 hanger for 1/2" SolarFlex			
	NA12133	Pipe hangers 3/4" pack of 4 hangers for 3/4" SolarFlex			
	NA12134	Pipe hangers 1" pack of 4 hangers for 1" SolarFlex			
SolarFlex extra connection kits					
33 00	NA12102	Connection Kit for 1/2" SolarFlex with 4 nuts, 4 segment rings and 4 flat sealing washers			
	NA12103	Connection Kit for 3/4" SolarFlex with 4 nuts, 4 segment rings and 4 flat sealing washers			
	NA12104	Connection Kit for 1" SolarFlex with 4 nuts, 4 segment rings and 4 flat sealing washers			
SolarFlex insulating tape					
	NA35001	Insulating EPDM foam tape (UV resistant) to wrap exposed piping, 50 ft roll x 2" wide x 1/8" thick			
	NA35002	Black film tape (UV resistant) to wrap foam tape, 50 ft roll x 2" wide			
6	NA35007	Black braid sleeve (UV & Vermin resistant), to protect exposed split piping outside, (2) 4' braid with (1) 30 ft roll x 2" wide black film tape			

