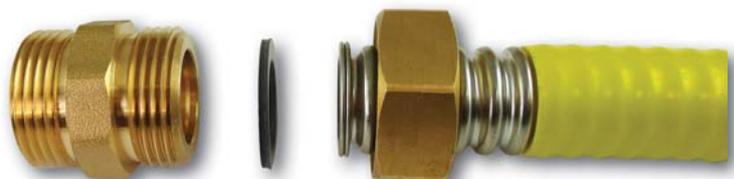




# PIPES AND INSULATION



**Flexible  
stainless-steel pipes**

## GAS PIPES



### SICURFLEX Stainless Steel Pipes

Easily shapeable stainless steel pipes with yellow PE coating. The pipes are intended for indoor gas piping, overpressure 0.5 bar max.

They are supposed to be cut to the desired length on site. They are easily flexible, with bends replacing pipe elbows.

**Certified to EN 15266:2008.**

### TECHNICAL DATA

|                           |                    |
|---------------------------|--------------------|
| PIPE MATERIAL             | AISI 316L (1.4404) |
| NUT MATERIAL              | brass              |
| GASKET                    | NBR                |
| PIPE WALL THICKNESS       | 0.3mm              |
| COATING THICKNESS         | 0.5mm              |
| WORKING TEMPERATURE       | 0 °C to +60 °C     |
| MAX. WORKING OVERPRESSURE | 0.5 bar            |

### DIMENSIONS AND TYPES

|                     | Inner diam. [mm] | Outer diam. [mm] | Min. bend diam. [mm] | Union nut size | Tightening torque [nm] | Pipe code 1 pc - 4 m | Pipe code - by meter | Nut+ gasket code | Gasket code |
|---------------------|------------------|------------------|----------------------|----------------|------------------------|----------------------|----------------------|------------------|-------------|
| <b>Trubka DN 12</b> | 12.0             | 15.8             | 25                   | 1/2"           | 40                     | 13459                | 13460                | 13634            | 14090       |
| <b>Trubka DN 15</b> | 15.7             | 20.0             | 25                   | 3/4"           | 50                     | 13461                | 13462                | 13635            | 14091       |
| <b>Trubka DN 20</b> | 19.7             | 25.0             | 30                   | 1"             | 50                     | 13463                | 13464                | 13636            | 14092       |

### ACCESSORIES

#### Protective Yellow Duct Tape - code: 13940

Intended for protection of uninsulated pipe sections, nuts and fittings against chemical and electrical corrosion and mechanical damage.



**Gas pipe installation shall be done by qualified staff only.**

# WATER AND SOLAR PIPES



## KOMBIFLEX Stainless Steel Pipes

Easily shapeable pipes made of stainless steel are intended for fixed pressure connections for domestic and drinking water. Kombiflex is suitable for connections of storage water heaters, boilers, radiators, water outlets, dishwashers and wherever quick installation and flexibility is an advantage. When used for hot water distribution or run in a wall, or for solar thermal systems, it is advisable to add insulation or use pre-insulated pipes. The pipes are cut to the desired length on the spot, elbows are replaced by pipe bends.

### TECHNICAL DATA

|                           |   |
|---------------------------|---|
| PIPE MATERIAL             | AISI 304                                |
| NUT MATERIAL              | nickel plated brass                     |
| PIPE WALL THICKNESS       | 0.22                                    |
| WORKING TEMPERATURE       | -20 °C to +120 °C                       |
| MAX. WORKING OVERPRESSURE | 16 bar (up to DN 20)<br>/ 6 bar (DN 25) |

**Certified for drinking water.**

### DIMENSIONS AND TYPES

|              | Inner diam. [mm] | Outer diam. [mm] | Min. bend diam. [mm] | Union nut size | Code |      |       |       | Nut+ gasket code | Gasket code | Teflon gasket code | Suitable insulation DN <sub>a</sub> * |                    |
|--------------|------------------|------------------|----------------------|----------------|------|------|-------|-------|------------------|-------------|--------------------|---------------------------------------|--------------------|
|              |                  |                  |                      |                | 2 m  | 4 m  | 20 m  | 30 m  |                  |             |                    |                                       | by meter           |
| <b>DN 8</b>  | 8.1              | 11.7             | 24                   | 3/8"           | 3713 |      |       |       |                  | 769         | 5667               | 9976                                  | DN <sub>a</sub> 13 |
| <b>DN 12</b> | 13               | 16.8             | 34                   | 1/2"           |      | 3093 |       | 16959 | 4654             | 770         | 5553               | 9977                                  | DN <sub>a</sub> 18 |
| <b>DN 16</b> | 15.7             | 20               | 40                   | 3/4"           |      | 3094 |       | 16960 | 4655             | 771         | 5554               | 9978                                  | DN <sub>a</sub> 22 |
| <b>DN 20</b> | 19.7             | 25               | 50                   | 1"             |      | 3267 |       | 16961 | 4656             | 3343        | 5668               | 9980                                  | DN <sub>a</sub> 28 |
| <b>DN 25</b> | 26.5             | 33               | 66                   | 5/4"           |      |      | 16962 |       | 3379             | 3344        | 6799               | 9981                                  | DN <sub>a</sub> 35 |

\* DN<sub>a</sub> means the insulation hole diameter

## ACCESSORIES FOR PREPARING KOMBIFLEX AND SICURFLEX PIPES

|  |   | CODE         |
|--|---|--------------|
|   | Pipe cutter for DN 8 to DN 20 pipes   | <b>713</b>   |
|   | Tube template rammer, DN 8 to DN 20   | <b>3430</b>  |
|  | Tube template rammer, DN 25   | <b>7596</b>  |
|   | Kombiflex clamp, 1/2", 3/4"   | <b>720</b>   |
|  | Kombiflex clamp, 3/8", 1"   | <b>3659</b>  |
|  | Kombiflex clamp, 5/4"   | <b>7597</b>  |
|  | Sicurflex clamp, 1/2", 3/4"   | <b>13939</b> |
|  | Sicurflex clamp, 1/2", 1"   | <b>14088</b> |
|  | Sicurflex clamps are different from Kombiflex ones and are marked GAS.  |              |
|  | Tool Case -<br>contains a pipe cutter, two twin Kombiflex clamps, tube template rammer and 4x 10 nickel-plated union nuts with gaskets. | <b>3834</b>  |

### Nipples with enlarged sealing surface area

In order to secure good tightness, the pipes shall be connected to nipples with sufficient sealing surface area (wall thickness) only.



#### NIPPLES WITH ENLARGED SEALING SURFACE AREA

|        | Code |
|--------|------|
| 3/8" M | 6972 |
| 1/2" M | 6971 |
| 3/4" M | 6970 |
| 1" M   | 6969 |
| 5/4" M | 6973 |



#### REDUCING NIPPLES WITH ENLARGED SEALING SURFACE AREA

|               | Code |
|---------------|------|
| 1/2" x 3/8" M | 6968 |
| 3/4" x 1/2" M | 6965 |
| 1" x 3/4" M   | 6967 |
| 5/4" x 3/4" M | 8270 |
| 5/4" x 1" M   | 6966 |
| 6/4" x 1" M   | 8766 |
| 6/4" x 5/4" M | 8767 |

### Wall Mount Pipe Clamps, M8 screw, screw and dowel included

| PIPE       | Code  |
|------------|-------|
| DN 12 pipe | 14160 |
| DN 20 pipe | 14162 |



# SOLAR PIPES



## SOLARFLEX A-MONO Stainless Steel Flexible Pipes

Single stainless steel pipe in EPDM thermal insulation with PE coating (enhanced protection against UV radiation), intended for easy connection of solar collectors, pump stations, solar cylinders etc.

The insulation consists of sealed cells, without addition of PVC or substances dangerous to the ozone layer. It is soft and flexible. It withstands temperatures up to 175°C in long term, and up to 230°C in short term (stagnation).

### TECHNICAL DATA

|                           |  |
|---------------------------|--|
| PIPE MATERIAL             | AISI 316 L   |
| NUT MATERIAL              | brass  |
| PIPE WALL THICKNESS       | 0.18   |
| WORKING TEMPERATURE       | - 57 °C to +175 °C<br>(up to +230°C in short term) |
| MAX. WORKING OVERPRESSURE | 10 bar   |

### DIMENSIONS AND TYPES



12932 (DN 16-20)



9644 (DN 16)  
and 9645 (DN 20)

#### SOLARFLEX A - MONO - 13 mm Insulation

|  | Dimension | Length | Code  |
|--|-----------|--------|-------|
| DN 16 Stainless steel pipe, 10m, incl. insulation, 4 nuts with lock rings and nipple | DN 16     | 10 m   | 12899 |
| DN 16 Stainless steel pipe, 20m, incl. insulation, 4 nuts with lock rings and nipple | DN 16     | 20 m   | 12900 |
| DN 16 Stainless steel pipe, 30m, incl. insulation, 4 nuts with lock rings and nipple | DN 16     | 30 m   | 12901 |
| DN 16 Stainless steel pipe, 50m, incl. insulation                                    | DN 16     | 50 m   | 12902 |
| DN 20 Stainless steel pipe, 10m, incl. insulation, 4 nuts with lock rings and nipple | DN 20     | 10 m   | 12903 |
| DN 20 Stainless steel pipe, 20m, incl. insulation, 4 nuts with lock rings and nipple | DN 20     | 20 m   | 12904 |
| DN 20 Stainless steel pipe, 30m, incl. insulation, 4 nuts with lock rings and nipple | DN 20     | 30 m   | 12905 |
| DN 20 Stainless steel pipe, 50m, incl. insulation                                    | DN 20     | 50 m   | 12906 |

#### SOLARFLEX A - MONO - 19 mm Insulation

|  | Dimension | Length | Code  |
|--|-----------|--------|-------|
| DN 16 Stainless steel pipe, 10m, incl. insulation, 4 nuts with lock rings and nipple | DN 16     | 10 m   | 12911 |
| DN 16 Stainless steel pipe, 20m, incl. insulation, 4 nuts with lock rings and nipple | DN 16     | 20 m   | 12912 |
| DN 16 Stainless steel pipe, 30m, incl. insulation, 4 nuts with lock rings and nipple | DN 16     | 30 m   | 12913 |
| DN 16 Stainless steel pipe, 50m, incl. insulation                                    | DN 16     | 50 m   | 12914 |
| DN 20 Stainless steel pipe, 10m, incl. insulation, 4 nuts with lock rings and nipple | DN 20     | 10 m   | 12915 |
| DN 20 Stainless steel pipe, 20m, incl. insulation, 4 nuts with lock rings and nipple | DN 20     | 20 m   | 12916 |
| DN 20 Stainless steel pipe, 30m, incl. insulation, 4 nuts with lock rings and nipple | DN 20     | 30 m   | 12917 |
| DN 20 Stainless steel pipe, 50m, incl. insulation                                    | DN 20     | 50 m   | 12918 |

# SOLAR PIPES

## SOLARFLEX A-DUO Stainless Steel Flexible Pipes

Two stainless steel pipes with silicone sensor cable (2x0.75mm<sup>2</sup>) in a double EPDM thermal insulation with PE coating that ensures enhanced protection against UV radiation. The pipes can be separated easily. They are marked to avoid interchanging the flow and return lines.

The insulation consists of sealed cells, without addition of PVC or substances dangerous to the ozone layer. It is soft and flexible. It withstands temperatures up to 175°C in long term, and up to 230°C in short term (stagnation).

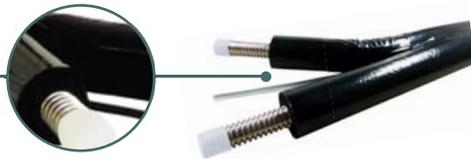


### TECHNICAL DATA

|                           |  |
|---------------------------|--|
| PIPE MATERIAL             | AISI 316 L   |
| NUT MATERIAL              | brass  |
| PIPE WALL THICKNESS       | 0.18   |
| WORKING TEMPERATURE       | - 57 °C to +175 °C<br>(up to +230°C in short term) |
| MAX. WORKING OVERPRESSURE | 10 bar   |

### DIMENSIONS AND TYPES

EASY TO SPLIT,  
E.G. AT  
A COLLECTOR



9641 (DN 16-20)



9644 (DN 16)  
and 9645 (DN 20)

#### SOLARFLEX A - DUO

|   | Dimension | Length | Code  |
|---|-----------|--------|-------|
| DN 16 Twin stainless steel pipe, 10m, incl. insulation, 4 nuts with lock rings and nipple | DN 16     | 10m    | 9916  |
| DN 16 Twin stainless steel pipe, 15m, incl. insulation, 4 nuts with lock rings and nipple | DN 16     | 15m    | 9619  |
| DN 16 Twin stainless steel pipe, 50m, incl. insulation                                    | DN 16     | 50m    | 10564 |
| DN 20 Twin stainless steel pipe, 10m, incl. insulation, 4 nuts with lock rings and nipple | DN 20     | 10m    | 9917  |
| DN 20 Twin stainless steel pipe, 15m, incl. insulation, 4 nuts with lock rings and nipple | DN 20     | 15m    | 9620  |
| DN 20 Twin stainless steel pipe, 50m, incl. insulation                                    | DN 20     | 50m    | 10565 |

## PIPE INSULATION

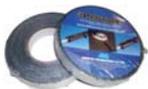
### Standard insulation



SOLARFLEX A-DUO Stainless Steel Pipes The insulation consists of sealed cells, without addition of PVC or substances dangerous to the ozone layer. It is soft and flexible. It withstands temperatures up to 175°C in long term, and up to 230°C in short term (stagnation).

| Standard insulation                              | Insulation thickness | Code  |
|--|----------------------|-------|
| DN <sub>a</sub> 10                               | 13 mm                | 6442  |
| DN <sub>a</sub> 13                               | 13 mm                | 6443  |
| DN <sub>a</sub> 16                               | 13 mm                | 6444  |
| DN <sub>a</sub> 18 by meter                      | 13 mm                | 7426  |
| DN <sub>a</sub> 22 by meter                      | 13 mm                | 7473  |
| DN <sub>a</sub> 28                               | 13 mm                | 6447  |
| DN <sub>a</sub> 35                               | 13 mm                | 7187  |
| DN <sub>a</sub> 15                               | 19 mm                | 7053  |
| DN <sub>a</sub> 18 by meter                      | 19 mm                | 7346  |
| DN <sub>a</sub> 18 self-adhesive, cut lengthwise | 19 mm                | 7189  |
| DN <sub>a</sub> 22 by meter                      | 19 mm                | 7347  |
| DN <sub>a</sub> 22 self-adhesive, cut lengthwise | 19 mm                | 7190  |
| DN <sub>a</sub> 28 by meter                      | 19 mm                | 12155 |
| DN <sub>a</sub> 28 self-adhesive, cut lengthwise | 19 mm                | 9391  |
| DN <sub>a</sub> 35                               | 19 mm                | 7188  |
| DN <sub>a</sub> 35 self-adhesive, cut lengthwise | 19 mm                | 9392  |

## ACCESSORIES

|   |   | CODE         |
|---|---|--------------|
|  | Aerotape insulation tape, 50 mm x 10 m - insulation 3 mm thick  | <b>6450</b>  |
|  | Protape insulation tape, 50 mm x 25 m - insulation 0.6 mm thick | <b>7252</b>  |
|  | Flat sheet insulation, 1m wide, 13mm thick, 11m roll            | <b>7418</b>  |
|  | Glue, 250 g, with a brush - 150°C                               | <b>6452</b>  |
|  | Glue, 1200 g - 150°C  | <b>19252</b> |

