






# Spiral plastic tubing

**FESTO**



## Product range overview

| Design   | Type  | ∅<br>[mm]               | Colour |       |            | Operating medium |        |       |
|--|---|-------------------------|--------|-------|------------|------------------|--------|-------|
|  |   |                         | Blue   | Black | Blue/black | Compressed air   | Vacuum | Water |
| <b>Spiral tubing</b>   |   | <b>Outside ∅</b>        |        |       |            |                  |        |       |
|  | <b>PUN-S</b><br>Polyurethane                      | 4<br>6<br>8<br>10<br>12 | ■      | ■     | –          | ■                | ■      | –     |
|  | <b>PUN-S-DUO</b><br>Polyurethane<br>Paired tubing | 4<br>6<br>8<br>10<br>12 | –      | –     | ■          | ■                | ■      | –     |
| <b>Spiral tubing, pre-assembled</b>  |   | <b>Inside ∅</b>         |        |       |            |                  |        |       |
|  | <b>PUN-SG</b><br>Polyurethane                     | 6.4<br>7.9              | ■      | –     | –          | ■                | ■      | ■     |
|  | <b>PPS</b><br>Polyamide                           | 4.75<br>6.35            | ■      | –     | –          | ■                | ■      | ■     |

 **Note**

The term 'water' used here should be understood to mean liquid mains water that is free of ice. The suitability of the products for water modified in any way, such as demineralised water, salt water or water with additives, as well as water in the vapour phase, must be enquired about separately.

The suitability of the products for water should not be understood as approval for e.g. drinking water applications.

## Product range overview

| Type                                | Halogen-free | PWIS-free to<br>FN 942 010 | Suitable for<br>energy<br>chains | Approved by<br>the German<br>Technical<br>Control<br>Board (TÜV) | Resistance |          |                  |            |                  | Shore<br>hardness <sup>2)</sup> | → Page/<br>Internet |
|-------------------------------------|--------------|----------------------------|----------------------------------|--|------------|----------|------------------|------------|------------------|---------------------------------|---------------------|
|                                     |              |                            |                                  |  | Chemicals  | Microbes | UV radiation     | Hydrolysis | Stress<br>cracks |                                 |                     |
| <b>Spiral tubing</b>                |              |                            |                                  |  |            |          |                  |            |                  |                                 |                     |
| PUN-S                               | ■            | ■                          | ■                                | ■  | -          | -        | ++ <sup>1)</sup> | +          | ++               | D 52 ±3                         | 6                   |
| PUN-S-DUO                           | ■            | ■                          | ■                                | ■  | -          | -        | +                | +          | +                | D 52 ±3                         | 8                   |
| <b>Spiral tubing, pre-assembled</b> |              |                            |                                  |  |            |          |                  |            |                  |                                 |                     |
| PUN-SG                              | ■            | ■                          | -                                | -  | +          | ++       | +                | ++         | +                | A 87 ±3                         | 11                  |
| PPS                                 | ■            | ■                          | ■                                | -  | +          | ++       | +                | +          | +                | -                               | 13                  |

++ Very suitable

+ Limited suitability (on request)

- Not suitable

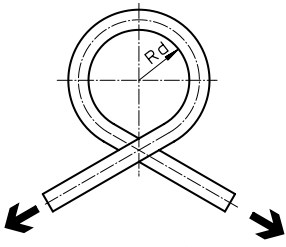
1) Applies to black colour

2) Values are determined using test boards. Derived values using tubing may vary.

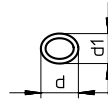
## Technical data

### Measurement method

#### Flow-relevant bending radius $R_d$



The tube is bent in the direction of its own curve until the tubing outer diameter is flattened by 5%.  $R_d$  is then calculated mathematically. The flow rate is not reduced until  $R_d$  is reached.

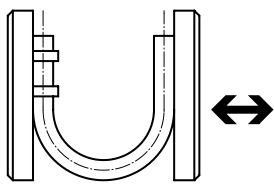


Cross section flattened by bending the tube.

$d$  = non-deformed tubing O.D.

$d_1$  = deformed tubing O.D.

#### Minimum bending radius $R_{min}$



The tube fixed to the base plate is bent until the deformation results in a kink. The measured value is the minimum bending radius  $R_{min}$ . This  $R_{min}$  results in significant reductions in flow rate.

### Length specifications

|  |                |  |
|--|----------------|--|
|  | Working length | With tensile load, 80% of the maximum section length |
|  | Block length   | Without tensile load                                 |

#### Note

The working length represents 80% of the maximum permissible expansion. This maximum expansion is the limit value before permanent deformation takes place.

## Type codes – PUN-S, PUN-S-DUO

| 001 | Series                       |
|-----|------------------------------|
| PUN | Plastic tubing, polyurethane |

| 002    | Tubing O.D. x wall thickness |
|--------|------------------------------|
| 4x0,75 | 4x0.75 mm                    |
| 6x1    | 6x1 mm                       |
| 8x1,25 | 8x1.25 mm                    |
| 10x1,5 | 10x1.5 mm                    |
| 12x2   | 12x2 mm                      |

| 003 | Design |
|-----|--------|
| S   | Spiral |

| 004 | Working length [m] |
|-----|--------------------|
| 0,5 | 0.5                |
| 1   | 1                  |
| 1,5 | 1.5                |
| 2   | 2                  |
| 6   | 6                  |

| 005 | Number of tubes |
|-----|-----------------|
|     | Single tubing   |
| DUO | Paired tubing   |

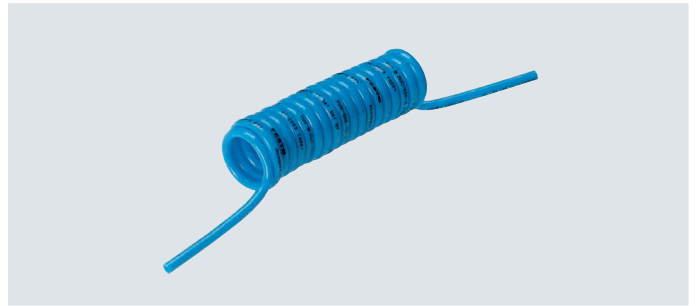
| 006 | Colour     |
|-----|------------|
| SW  | Black      |
| BL  | Blue       |
| BS  | Blue/black |

# Spiral plastic tubing

## Data sheet – PUN-S

### Spiral plastic tubing PUN-S

Highly flexible plastic tubing



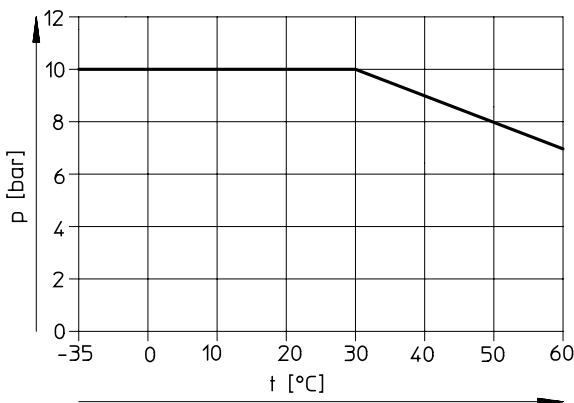
#### General technical data

| Type                 | PUN-4x0.75-S                                     | PUN-6x1-S  | PUN-8x1.25-S                                     | PUN-10x1.5-S                        | PUN-12x2-S                          |
|----------------------|--|--|--|-------------------------------------|-------------------------------------|
| Pneumatic connection | For push-in connector<br>O.D. 4 mm               | For push-in connector<br>O.D. 6 mm               | For push-in connector<br>O.D. 8 mm               | For push-in connector<br>O.D. 10 mm | For push-in connector<br>O.D. 12 mm |
|                      | For barbed connector I.D.<br>3 mm with union nut | For barbed connector I.D.<br>4 mm with union nut | For barbed connector I.D.<br>6 mm with union nut | –                                   | –                                   |
|                      | For barbed connector I.D.<br>3 mm                | For barbed connector I.D.<br>4 mm                | For barbed connector I.D.<br>6 mm                | –                                   | –                                   |

#### Operating and environmental conditions

|  |   |
|--|---|
| Temperature-dependent operating pressure [bar] | –0.95 ... +10 → graph                     |
| Operating medium                               | Compressed air to ISO 8573-1:2010 [7:-:-] |
| PWIS conformity                                | VDMA24364-B2-L                            |
| Ambient temperature [°C]                       | –35 ... +60                               |
| Certification                                  | German Technical Control Board (TÜV)      |
| Certificate issuing authority                  | B 013277 0506 00                          |

#### Operating pressure p as a function of temperature t



1) Recommended fitting

#### Possible fittings



Push-in fitting QS,  
Quick Star<sup>1)</sup>  
→ Internet: qs



Push-in fitting QS-B,  
Quick Star<sup>1)</sup>  
→ Internet: qs-b



Push-in fitting CRQS, Quick Star,  
stainless steel  
→ Internet: crqs



Push-in fitting NPQM  
→ Internet: npqm



Quick connector CK  
→ Internet: ck



Barbed fitting CN  
→ Internet: cn

#### Note

Greater force is required when assembling the fittings CK/CN. Expanding the tube ends using a tapered mandrel makes pushing them on easier.

## Data sheet – PUN-S

| Materials         |                         |
|-------------------|-------------------------|
| Shore hardness    | D 52 ±3                 |
| Tubing            | TPE-U(PU)               |
| Note on materials | RoHS-compliant          |
|                   | Free of copper and PTFE |

| Dimensions and ordering data |                  |                   |                       |                       |                     |               |          |                     |
|------------------------------|------------------|-------------------|-----------------------|-----------------------|---------------------|---------------|----------|---------------------|
| Outside ø<br>[mm]            | Inside ø<br>[mm] | Winding ø<br>[mm] | Number of<br>windings | Working length<br>[m] | Block length<br>[m] | Weight<br>[g] | Part no. | Type                |
| <b>Colour: blue</b>          |                  |                   |                       |                       |                     |               |          |                     |
| 4                            | 2.6              | 25                | 20                    | 0.5                   | 0.184               | 13            | 197587   | PUN-4x0.75-S-0.5-BL |
|                              |                  |                   | 45                    | 1                     | 0.284               | 27            | 197588   | PUN-4x0.75-S-1-BL   |
|                              |                  |                   | 70                    | 1.5                   | 0.384               | 42            | 197589   | PUN-4x0.75-S-1.5-BL |
| 6                            | 4                | 46                | 23                    | 1                     | 0.344               | 51            | 197590   | PUN-6x1-S-1-BL      |
|                              |                  |                   | 52                    | 2                     | 0.518               | 110           | 197591   | PUN-6x1-S-2-BL      |
|                              |                  |                   | 168                   | 6                     | 1.214               | 350           | 197592   | PUN-6x1-S-6-BL      |
| 8                            | 5.7              | 60                | 12                    | 1                     | 0.304               | 65            | 197593   | PUN-8x1.25-S-1-BL   |
|                              |                  |                   | 27                    | 2                     | 0.424               | 140           | 197594   | PUN-8x1.25-S-2-BL   |
|                              |                  |                   | 87                    | 6                     | 0.904               | 440           | 197595   | PUN-8x1.25-S-6-BL   |
| 10                           | 7                | 80                | 9.5                   | 1                     | 0.305               | 110           | 197596   | PUN-10x1.5-S-1-BL   |
|                              |                  |                   | 22                    | 2                     | 0.43                | 250           | 197597   | PUN-10x1.5-S-2-BL   |
|                              |                  |                   | 70                    | 6                     | 0.91                | 760           | 197598   | PUN-10x1.5-S-6-BL   |
| 12                           | 8                | 95                | 9                     | 1                     | 0.32                | 200           | 197599   | PUN-12x2-S-1-BL     |
|                              |                  |                   | 20                    | 2                     | 0.452               | 420           | 197600   | PUN-12x2-S-2-BL     |
|                              |                  |                   | 64                    | 6                     | 0.98                | 1300          | 197601   | PUN-12x2-S-6-BL     |
| <b>Colour: black</b>         |                  |                   |                       |                       |                     |               |          |                     |
| 4                            | 2.6              | 25                | 20                    | 0.5                   | 0.184               | 13            | 197602   | PUN-4x0.75-S-0.5-SW |
|                              |                  |                   | 45                    | 1                     | 0.284               | 27            | 197603   | PUN-4x0.75-S-1-SW   |
|                              |                  |                   | 70                    | 1.5                   | 0.384               | 42            | 197604   | PUN-4x0.75-S-1.5-SW |
| 6                            | 4                | 46                | 23                    | 1                     | 0.344               | 51            | 197605   | PUN-6x1-S-1-SW      |
|                              |                  |                   | 52                    | 2                     | 0.518               | 110           | 197606   | PUN-6x1-S-2-SW      |
|                              |                  |                   | 168                   | 6                     | 1.214               | 350           | 197607   | PUN-6x1-S-6-SW      |
| 8                            | 5.7              | 60                | 12                    | 1                     | 0.304               | 65            | 197608   | PUN-8x1.25-S-1-SW   |
|                              |                  |                   | 27                    | 2                     | 0.424               | 140           | 197609   | PUN-8x1.25-S-2-SW   |
|                              |                  |                   | 87                    | 6                     | 0.904               | 440           | 197610   | PUN-8x1.25-S-6-SW   |
| 10                           | 7                | 80                | 9.5                   | 1                     | 0.305               | 110           | 197611   | PUN-10x1.5-S-1-SW   |
|                              |                  |                   | 22                    | 2                     | 0.43                | 250           | 197612   | PUN-10x1.5-S-2-SW   |
|                              |                  |                   | 70                    | 6                     | 0.91                | 760           | 197613   | PUN-10x1.5-S-6-SW   |
| 12                           | 8                | 95                | 9                     | 1                     | 0.32                | 200           | 197614   | PUN-12x2-S-1-SW     |
|                              |                  |                   | 20                    | 2                     | 0.452               | 420           | 197615   | PUN-12x2-S-2-SW     |
|                              |                  |                   | 64                    | 6                     | 0.98                | 1300          | 197616   | PUN-12x2-S-6-SW     |

# Spiral plastic tubing

## Data sheet – PUN-S-DUO

### DUO spiral plastic tubing PUN-S-DUO

Highly flexible paired plastic tubing.  
Two lengths of tubing are fused together into a tubing pair.

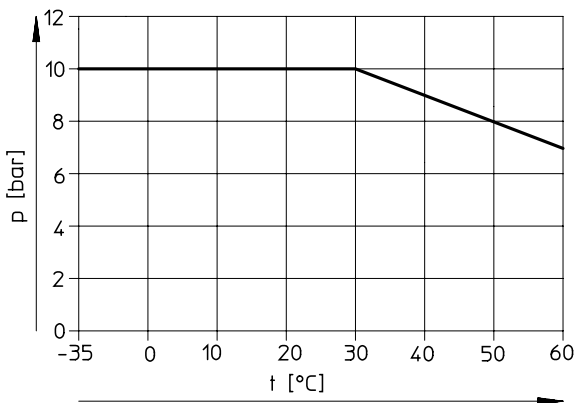
For fitting, the paired tubing is separated as required at both ends.



| General technical data |  |  |  |                                     |                                     |
|------------------------|--|--|--|-------------------------------------|-------------------------------------|
| Type                   | PUN-4x0.75-S                                     | PUN-6x1-S  | PUN-8x1.25-S                                     | PUN-10x1.5-S                        | PUN-12x2-S                          |
| Pneumatic connection   | For push-in connector<br>O.D. 4 mm               | For push-in connector<br>O.D. 6 mm               | For push-in connector<br>O.D. 8 mm               | For push-in connector<br>O.D. 10 mm | For push-in connector<br>O.D. 12 mm |
|                        | For barbed connector I.D.<br>3 mm with union nut | For barbed connector I.D.<br>4 mm with union nut | For barbed connector I.D.<br>6 mm with union nut | –                                   | –                                   |
|                        | For barbed connector I.D.<br>3 mm                | For barbed connector I.D.<br>4 mm                | For barbed connector I.D.<br>6 mm                | –                                   | –                                   |

| Operating and environmental conditions         |   |
|--|---|
| Temperature-dependent operating pressure [bar] | –0.95 ... +10 → graph                     |
| Operating medium                               | Compressed air to ISO 8573-1:2010 [7:-:-] |
| PWIS conformity                                | VDMA24364-B2-L                            |
| Ambient temperature [°C]                       | –35 ... +60                               |
| Certification                                  | German Technical Control Board (TÜV)      |
| Certificate issuing authority                  | B 013277 0506 00                          |

### Operating pressure p as a function of temperature t



1) Recommended fitting

### Possible fittings



Push-in fitting QS, Quick Star<sup>1)</sup>  
→ Internet: qs



Push-in fitting QS-B, Quick Star<sup>1)</sup>  
→ Internet: qs-b



Push-in fitting CRQS, Quick Star, stainless steel  
→ Internet: crqs



Push-in fitting NPQM  
→ Internet: npqm



Quick connector CK  
→ Internet: ck



Barbed fitting CN  
→ Internet: cn

### Note

Greater force is required when assembling the fittings CK/CN. Expanding the tube ends using a tapered mandrel makes pushing them on easier.



## Data sheet – PUN-S-DUO

| Materials         |                         |
|-------------------|-------------------------|
| Shore hardness    | D 52 ±3                 |
| Tubing            | TPE-U(PU)               |
| Note on materials | RoHS-compliant          |
|                   | Free of copper and PTFE |

| Dimensions and ordering data |                  |                   |                       |                       |                     |               |          |                         |
|------------------------------|------------------|-------------------|-----------------------|-----------------------|---------------------|---------------|----------|-------------------------|
| Outside ø<br>[mm]            | Inside ø<br>[mm] | Winding ø<br>[mm] | Number of<br>windings | Working length<br>[m] | Block length<br>[m] | Weight<br>[g] | Part no. | Type                    |
| <b>Colour: blue/black</b>    |                  |                   |                       |                       |                     |               |          |                         |
| 4                            | 2.6              | 25                | 20                    | 0.5                   | 0.268               | 25            | 197617   | PUN-4x0.75-S-0.5-DUO-BS |
|                              |                  |                   | 45                    | 1                     | 0.468               | 55            | 197618   | PUN-4x0.75-S-1-DUO-BS   |
|                              |                  |                   | 70                    | 1.5                   | 0.668               | 84            | 197619   | PUN-4x0.75-S-1.5-DUO-BS |
| 6                            | 4                | 46                | 23                    | 1                     | 0.488               | 102           | 197620   | PUN-6x1-S-1-DUO-BS      |
|                              |                  |                   | 52                    | 2                     | 0.836               | 230           | 197621   | PUN-6x1-S-2-DUO-BS      |
|                              |                  |                   | 168                   | 6                     | 2.228               | 700           | 197622   | PUN-6x1-S-6-DUO-BS      |
| 8                            | 5.7              | 60                | 12                    | 1                     | 0.408               | 130           | 197623   | PUN-8x1.25-S-1-DUO-BS   |
|                              |                  |                   | 27                    | 2                     | 0.648               | 280           | 197624   | PUN-8x1.25-S-2-DUO-BS   |
|                              |                  |                   | 87                    | 6                     | 1.608               | 870           | 197625   | PUN-8x1.25-S-6-DUO-BS   |
| 10                           | 7                | 80                | 9.5                   | 1                     | 0.41                | 220           | 197626   | PUN-10x1.5-S-1-DUO-BS   |
|                              |                  |                   | 22                    | 2                     | 0.66                | 490           | 197627   | PUN-10x1.5-S-2-DUO-BS   |
|                              |                  |                   | 70                    | 6                     | 1.62                | 1520          | 197628   | PUN-10x1.5-S-6-DUO-BS   |
| 12                           | 8                | 95                | 9                     | 1                     | 0.44                | 390           | 197629   | PUN-12x2-S-1-DUO-BS     |
|                              |                  |                   | 20                    | 2                     | 0.704               | 830           | 197630   | PUN-12x2-S-2-DUO-BS     |
|                              |                  |                   | 64                    | 6                     | 1.76                | 2600          | 197631   | PUN-12x2-S-6-DUO-BS     |

## Spiral plastic tubing

### Type codes – PUN-SG, pre-assembled

| 001 | Series                       |
|-----|------------------------------|
| PUN | Plastic tubing, polyurethane |

| 002    | Tubing O.D. x wall thickness |
|--------|------------------------------|
| 10x1,5 | 10x1.5 mm                    |
| 12x2   | 12x2 mm                      |

| 003 | Design             |
|-----|--------------------|
| SG  | Spiral with fabric |

| 004 | Working length [m] |
|-----|--------------------|
| 2,4 | 2.4                |
| 4,8 | 4.8                |
| 6   | 6                  |

| 005 | Colour |
|-----|--------|
| BL  | Blue   |

| 006 | Pneumatic connection |
|-----|----------------------|
| 1/4 | Male thread G1/4     |
| 3/8 | Male thread G3/8     |

## Data sheet – PUN-SG, pre-assembled

## Spiral plastic tubing PUN-SG

Highly flexible and hydrolysis-resistant pneumatic tubing with fibre reinforcement and captive rotatable fittings.



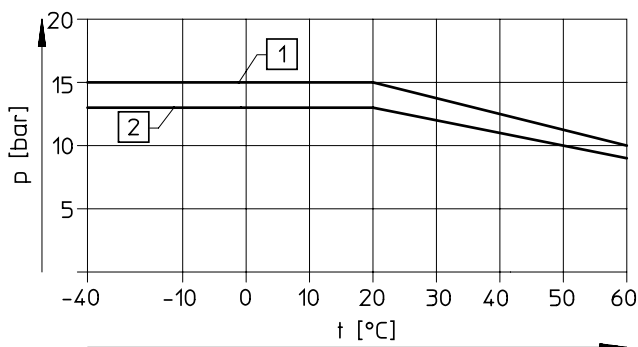
| General technical data    |      | PUN-10x1.5-SG    | PUN-12x2-SG      |
|---------------------------|------|------------------|------------------|
| Type                      |      | PUN-10x1.5-SG    | PUN-12x2-SG      |
| Pneumatic connection 1, 2 |      | Male thread G1/4 | Male thread G3/8 |
| Nominal tightening torque | [Nm] | 11 ±20%          | 12.5 ±20%        |

| Operating and environmental conditions       |       | PUN-10x1.5-SG                             | PUN-12x2-SG           |
|--|-------|---|-----------------------|
| Temperature-dependent operating pressure     | [bar] | -0.95 ... +15 → graph                     | -0.95 ... +13 → graph |
| Operating medium                             |       | Compressed air to ISO 8573-1:2010 [7:-:-] |                       |
| Ambient temperature                          | [°C]  | -40 ... +60                               |                       |
| Corrosion resistance class CRC <sup>1)</sup> |       | 1   |                       |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

## Operating pressure p as a function of temperature t



[1] PUN-10x1.5-SG

[2] PUN-12x2-SG

| Materials                  |   |
|----------------------------|---|
| Shore hardness             | A 87 ±3                                   |
| Tubing                     | TPE-U(PU)                                 |
| Connecting thread          | Nickel-plated brass                       |
| Protection against kinking | POM                                       |
| Note on materials          | RoHS-compliant<br>Free of copper and PTFE |

| Dimensions and ordering data |          |                              |           |                    |                |              |        |          |                          |
|------------------------------|----------|------------------------------|-----------|--------------------|----------------|--------------|--------|----------|--------------------------|
| Outside ø                    | Inside ø | Flow-relevant bending radius | Winding ø | Number of windings | Working length | Block length | Weight | Part no. | Type                     |
| [mm]                         | [mm]     | [mm]                         | [mm]      |                    | [m]            | [m]          | [g]    |          |                          |
| <b>Colour: blue</b>          |          |                              |           |                    |                |              |        |          |                          |
| 9.5                          | 6.4      | 50                           | 42        | 21                 | 2.4            | 0.889        | 180    | 533463   | PUN-10x1.5-SG-2.4-BL-1/4 |
|                              |          |                              |           | 50                 | 4.8            | 1.165        | 340    | 533464   | PUN-10x1.5-SG-4.8-BL-1/4 |
|                              |          |                              |           | 66                 | 6              | 1.317        | 430    | 533465   | PUN-10x1.5-SG-6-BL-1/4   |
| 11.7                         | 7.9      | 65                           | 51        | 41                 | 4.8            | 1.172        | 480    | 533466   | PUN-12x2-SG-4.8-BL-3/8   |
|                              |          |                              |           | 53                 | 6              | 1.312        | 560    | 533467   | PUN-12x2-SG-6-BL-3/8     |

## Spiral plastic tubing

### Type codes – PPS, pre-assembled

| 001 | Series                           |
|-----|----------------------------------|
| PPS | Spiral plastic tubing, polyamide |

| 002 | Pipe/tubing I.D. [mm] |
|-----|-----------------------|
| 4   | 4.7                   |
| 6   | 6.2                   |

| 003 | Working length [m] |
|-----|--------------------|
| 7,5 | 7.5                |
| 15  | 15                 |

| 004 | Pneumatic connection |
|-----|----------------------|
| 1/4 | Male thread G1/4     |

| 005 | Colour |
|-----|--------|
| BL  | Blue   |

## Data sheet – PPS, pre-assembled

## Spiral plastic tubing PPS

This hydrolysis-resistant plastic tubing has high thermal and mechanical load capacities. Each tubing length is delivered ready for installation with 2 rotatable connectors and

captive sealing rings OL. Kinks at the tubing ends are prevented by the anti-kinking springs.



## General technical data

|                                |                  |
|--------------------------------|------------------|
| Pneumatic connection 1, 2      | Male thread G1/4 |
| Nominal tightening torque [Nm] | 11 ±20%          |

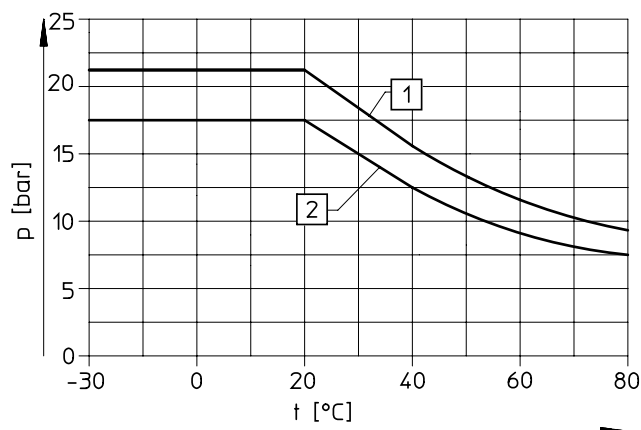
## Operating and environmental conditions

| Type   | PPS-4                                     | PPS-6                   |
|--|---|-------------------------|
| Temperature-dependent operating pressure [bar] | -0.95 ... +21.2 → graph                   | -0.95 ... +17.2 → graph |
| Operating medium                               | Compressed air to ISO 8573-1:2010 [7:-:-] |                         |
| Ambient temperature [°C]                       | -30 ... +80                               |                         |
| Corrosion resistance class CRC <sup>1)</sup>   | 1   |                         |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

## Operating pressure p as a function of temperature t



[1] PPS-4

[2] PPS-6

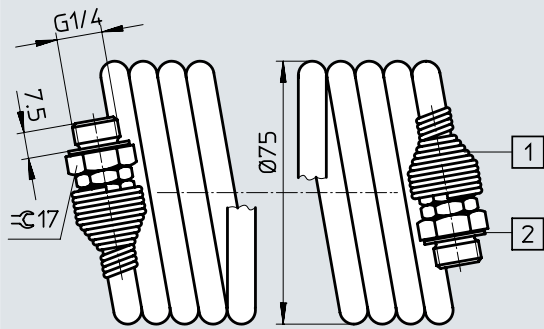
## Materials

|                            |                  |
|----------------------------|------------------|
| Tubing                     | PA12-P           |
| Connecting thread          | Brass            |
| Protection against kinking | Galvanised steel |
| Note on materials          | RoHS-compliant   |

Data sheet – PPS, pre-assembled

Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



[1] Anti-kinking spring

[2] Captive seal

Ordering data

| Outside ø<br>[mm]   | Inside ø<br>[mm] | Winding ø<br>[mm] | Number of<br>windings | Working length<br>[m] | Block length<br>[m] | Weight<br>[g] | Part no. | Type             |
|---------------------|------------------|-------------------|-----------------------|-----------------------|---------------------|---------------|----------|------------------|
| <b>Colour: blue</b> |                  |                   |                       |                       |                     |               |          |                  |
| 6.3                 | 4.7              | 75                | 44                    | 7.5                   | 0.34                | 249           | 19798    | PPS-4-7.5-1/4-BL |
|                     |                  |                   | 90                    | 15                    | 0.67                | 367           | 19799    | PPS-4-15-1/4-BL  |
| 7.8                 | 6.2              | 75                | 43                    | 7.5                   | 0.43                | 298           | 19796    | PPS-6-7.5-1/4-BL |
|                     |                  |                   | 86                    | 15                    | 0.80                | 500           | 19797    | PPS-6-15-1/4-BL  |

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