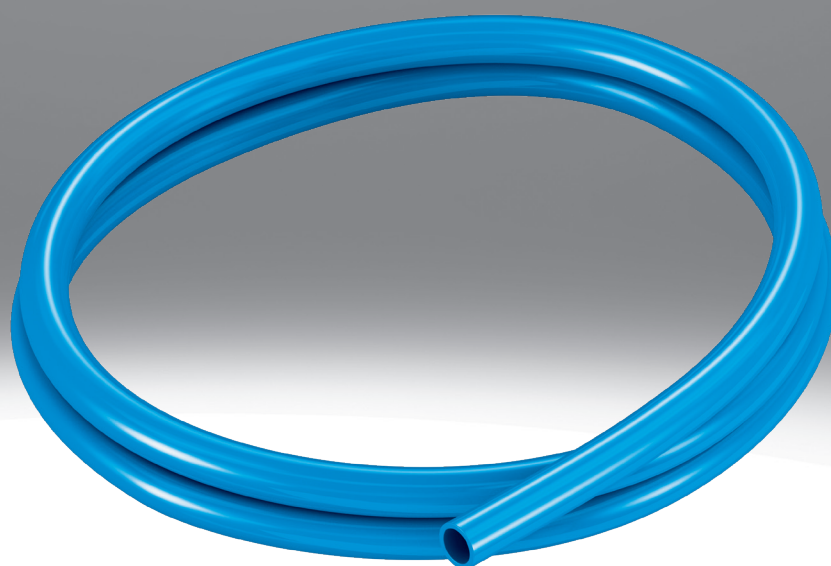


Plastic tubing PUN-H-F

**FESTO**



## Characteristics

### At a glance

Flexible and hydrolysis-resistant tubing with standard O.D. in various colours

- Polyurethane
- Highly resistant to microbes and hydrolysis
- Suitable for contact with food.
- Food grade see [www.festo.com/certificates/PUN\\_H](http://www.festo.com/certificates/PUN_H)
- Suitable for energy chains
- Operating medium: compressed air, vacuum, water
- Very easy installation thanks to “one-click” principle

### Diagrams

Further information → [pun-h-f](#)



The diagrams shown in this document are also available online. These can be used to display precise values.

### Alternative material characteristic

[H] Hydrolysis-resistant

Hydrolysis-resistant and suitable for water applications.

### Additional features

Further information → [pun-h-f](#)

[F] Food-safe



Suitable for contact with food.

Declaration of conformity to EU Regulation EC 1935/2004.

### Pipe/tubing O.D. x wall thickness

For standard O.D. tubing, the outside diameter of the tube and the wall thickness are given as the tube size.

## Type code

001	Series
<b>PUN</b>	Plastic tubing, polyurethane
002	Alternative material characteristic
<b>H</b>	Hydrolysis-resistant
003	Additional features
<b>F</b>	Food-safe

004	Pipe/tubing O.D. x wall thickness
<b>4x0,75</b>	4x0.75 mm
<b>6x1</b>	6x1 mm
<b>8x1,25</b>	8x1.25 mm
<b>10x1,5</b>	10x1.5 mm
<b>12x2</b>	12x2 mm
<b>14x2</b>	14x2 mm
<b>16x2,5</b>	16x2.5 mm

005	Colour
<b>BL</b>	Blue
<b>GE</b>	Yellow
<b>GN</b>	Green
<b>NT</b>	Natural
<b>RT</b>	Red
<b>SW</b>	Black
<b>TBL</b>	Translucent blue

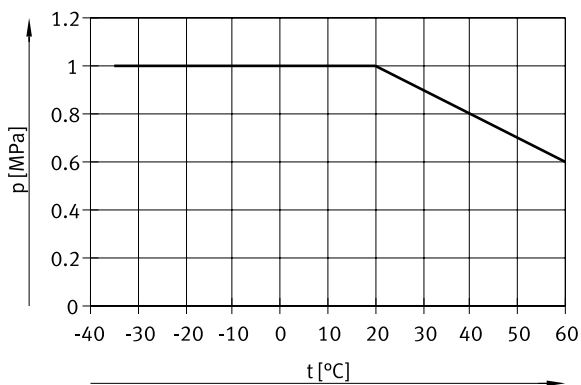
## Datasheet

Operating and environmental conditions							
Outside diameter	4 mm	6 mm	8 mm	10 mm	12 mm	14 mm	16 mm
Inside diameter	2.6 mm	4 mm	5.7 mm	7 mm	8 mm	9.8 mm	11 mm
Pneumatic connection	For push-in connector O.D. 4 mm For barbed fitting I.D. 3 mm with union nut	For push-in connector O.D. 6 mm For barbed fitting I.D. 4 mm with union nut	For push-in connector O.D. 8 mm For barbed fitting inside diameter of 6 mm with union nut	For push-in connector O.D. 10 mm	For push-in connector outside diameter of 12 mm	For push-in connector outer diameter of 14 mm	For push-in connector O.D. 16 mm
Flow-relevant bending radius	16 mm	26 mm	37 mm	52 mm	62 mm	78 mm	88 mm
Min. bending radius	8 mm	10 mm	21 mm	28 mm	33 mm	38 ... 39 mm	38 mm
Temperature-dependent operating pressure	-0.095 ... 1 MPa						
Temperature-dependent operating pressure	-0.95 ... 10 bar						
Temperature-dependent operating pressure	-13.775 ... 145 psi						
Operating pressure complete temperature range	-0.095 ... 0.6 MPa						
Operating pressure complete temperature range	-0.95 ... 6 bar						
Operating pressure complete temperature range	-13.775 ... 87 psi						
Note on operating pressure	Water: temperature-dependent operating pressure, see diagram, max. 0.3 MPa at 0 - 60°C						
Operating medium <sup>1)</sup>	Compressed air to ISO 8573-1:2010 [7:-], Oxygen, Water (liquid, ice-free)						
Suitable for use with food <sup>2)</sup>	See declaration of conformity						
Ambient temperature	-35 ... 60°C						
Fire test material	UL94 HB						
Tubing characteristics	Suitable for energy chains						

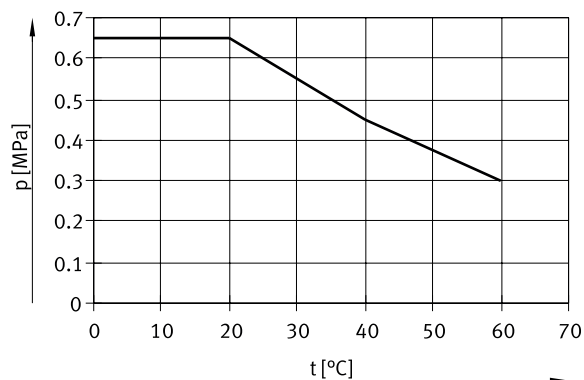
1) Oxygen: Applies only to NT variants (colour: natural). More information [www.festo.com/catalogue/pun-h-f](http://www.festo.com/catalogue/pun-h-f) → Support/Downloads.

2) More information [www.festo.com/catalogue/pun-h-f](http://www.festo.com/catalogue/pun-h-f) → Support/Downloads.

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



## Datasheet

Operating pressure  $p$  as a function of temperature  $t$  (medium: water)


Deviating maximum operating pressures apply to the medium water, with a safety factor of  $s=4$ .

## Materials

Shore hardness	D 52 +/-3
Material tubing <sup>1)</sup>	TPE-U(PU)
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom class	Element installed statically, no meaningful evaluation possible according to ISO 14644-1

1) TPE-U Ether-based, tube without printing

## Ordering data

Ordering data						
	Outside diameter	Packaging unit [m] <sup>1)</sup>	Product weight according to length	Colour	Part no.	Type
	4 mm	Standard	0.008 kg/m	Blue	8153381	PUN-H-F-4X0,75-BL
				Yellow	8153384	PUN-H-F-4X0,75-GE
				Green	8153383	PUN-H-F-4X0,75-GN
				Natural	8153378	PUN-H-F-4X0,75-NT
				Red	8153379	PUN-H-F-4X0,75-RT
				Black	8153385	PUN-H-F-4X0,75-SW
				Translucent blue	8153382	PUN-H-F-4X0,75-TBL
	6 mm	0.018 kg/m	Blue	8153388	PUN-H-F-6X1-BL	
			Yellow	8153391	PUN-H-F-6X1-GE	
			Green	8153390	PUN-H-F-6X1-GN	
			Natural	8153428	PUN-H-F-6X1-NT	
			Red	8153386	PUN-H-F-6X1-RT	
			Black	8153392	PUN-H-F-6X1-SW	
			Translucent blue	8153389	PUN-H-F-6X1-TBL	
	8 mm	0.029 kg/m	Blue	8153395	PUN-H-F-8X1,25-BL	
			Yellow	8153398	PUN-H-F-8X1,25-GE	
			Green	8153397	PUN-H-F-8X1,25-GN	
			Natural	8153429	PUN-H-F-8X1,25-NT	
			Red	8153393	PUN-H-F-8X1,25-RT	
			Black	8153399	PUN-H-F-8X1,25-SW	
			Translucent blue	8153396	PUN-H-F-8X1,25-TBL	
	10 mm	0.046 kg/m	Blue	8153402	PUN-H-F-10X1,5-BL	
			Yellow	8153405	PUN-H-F-10X1,5-GE	
			Green	8153404	PUN-H-F-10X1,5-GN	
			Natural	8153430	PUN-H-F-10X1,5-NT	
			Red	8153400	PUN-H-F-10X1,5-RT	
			Black	8153406	PUN-H-F-10X1,5-SW	
			Translucent blue	8153403	PUN-H-F-10X1,5-TBL	
	12 mm	0.072 kg/m	Blue	8153410	PUN-H-F-12X2-BL	
			Yellow	8153413	PUN-H-F-12X2-GE	
			Green	8153412	PUN-H-F-12X2-GN	
			Natural	8153407	PUN-H-F-12X2-NT	
			Red	8153408	PUN-H-F-12X2-RT	
			Black	8153414	PUN-H-F-12X2-SW	
			Translucent blue	8153411	PUN-H-F-12X2-TBL	
	14 mm	0.091 kg/m	Blue	8153417	PUN-H-F-14X2-BL	
			Natural	8153415	PUN-H-F-14X2-NT	
			Red	8153416	PUN-H-F-14X2-RT	
			Black	8153418	PUN-H-F-14X2-SW	
	16 mm	0.122 kg/m	Blue	8153422	PUN-H-F-16X2,5-BL	
			Yellow	8153425	PUN-H-F-16X2,5-GE	
			Green	8153424	PUN-H-F-16X2,5-GN	
Natural			8153419	PUN-H-F-16X2,5-NT		
Red			8153420	PUN-H-F-16X2,5-RT		
Black			8153426	PUN-H-F-16X2,5-SW		
Translucent blue			8153423	PUN-H-F-16X2,5-TBL		

1) Standard: 50 m