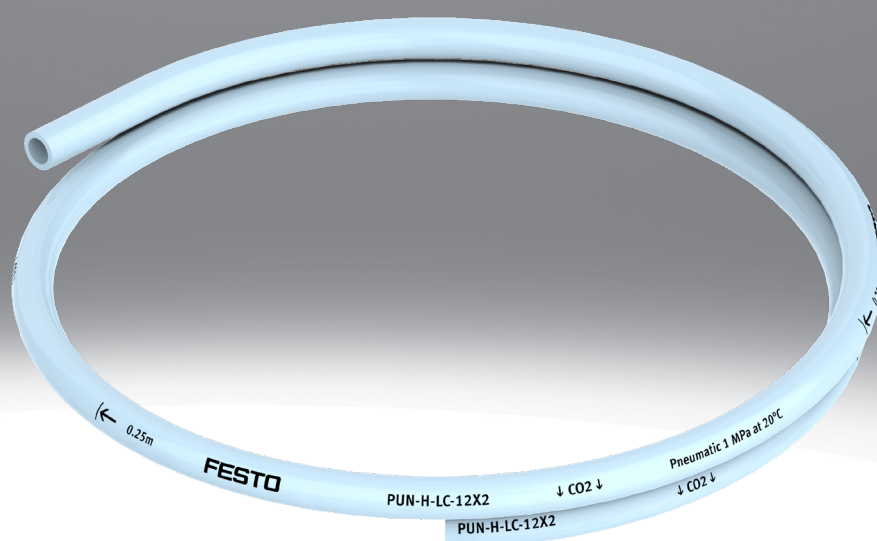


Plastic tubing PUN-H-LC

FESTO



Characteristics

At a glance

- Highly resistant to microbes and hydrolysis
- Suitable for energy chains
- Operating medium: compressed air, vacuum, water
- Very easy installation thanks to “one-click” principle

Recommended tubing/fitting combinations (further information at www.festo.com/catalogue/pun-h → Support/Downloads):

Additional documents

Link [pun-h-lc](#)



The additional document TUBING-ADD contains further information on application details, such as tubing/fitting combinations, installation instructions and measurement procedures.

Engineering tools

Link [engineering tools](#)



Save time with engineering tools: Smart engineering for the optimal solution. Our goal is to increase your productivity. Our engineering tools play an integral part in achieving this goal. They help you size your system correctly, tap into unimagined productivity reserves and generate additional productivity along the entire value chain. In every phase of your project, from the initial contact to the modernisation of your machine, you will come across a number of different tools that will be of use to you.

- Flow calculation: Determine the nominal flow rate by entering parameters such as input pressure, output pressure, tube length and internal diameter (www.festo.com/x/flowrate-calculation).
- Media resistance: Evaluate the resistance of various types of materials and tubing from Festo to different chemicals and media (www.festo.com/x/media-resistance).
- Sizing: The CO₂ and TCO Guide is an online tool that allows you to compare the performance and efficiency of pneumatic and electric drive solutions. By entering specific parameters, you can view your CO₂ footprint (www.festo.com/x/co2-tco).

Diagrams

Link [pun-h-lc](#)



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 characteristics

[LC] Low carbon

Biomass is used as an energy source in the tubing manufacturing process instead of crude oil. The use of biogas results in a reduction in CO₂ of up to 100%. This reduces the carbon footprint (PCF value) by up to 66%.

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	
PUN	Plastic tubing, polyurethane	
002	Alternative material characteristic	
H	Hydrolysis-resistant	
003	Additional characteristics	
LC	Low carbon	

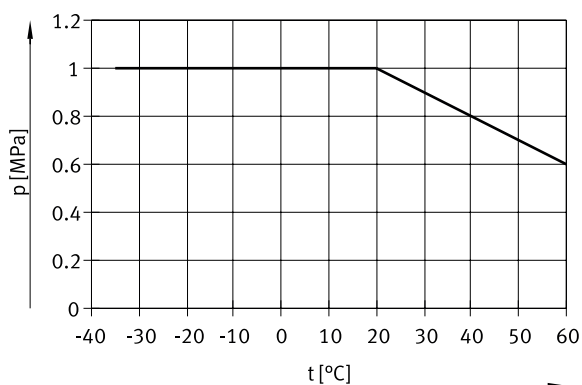
004	Tubing outside diameter	
4x0,75	4 mm	
6x1	6 mm	
8x1,25	8 mm	
10x1,5	10 mm	
12x2	12 mm	
005	Tube colour	
BL	Blue	
HBL	Light blue	

Datasheet

Operating and environmental conditions					
Outside diameter	4 mm	6 mm	8 mm	10 mm	12 mm
Inside diameter	2.6 mm	4 mm	5.7 mm	7 mm	8 mm
Pneumatic connection	For push-in connector O.D. 4 mm For push-in connector outside diameter of 5/32" 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 push-in connector outside diameter of 5/16" 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
Flow-relevant bending radius	16 mm	26 mm	37 mm	52 mm	62 mm
Min. bending radius	8 mm	10 mm	21 mm	28 mm	33 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	Compressed air to ISO 8573-1:2010 [7:::] Water (liquid, ice-free)				
Suitable for use with food ¹⁾	See supplementary material information				
Ambient temperature	-35 ... 60°C				
Fire test material	UL94 HB				
Tubing characteristics	Suitable for energy chains				

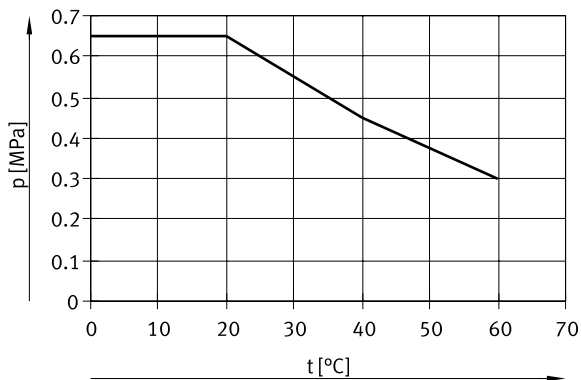
1) For more information, visit: www.festo.com/catalogue/npck → Support/Downloads.

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 $s=4$.

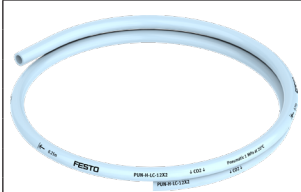
Materials

Shore hardness	D 52 +/- 3
Material tubing	TPE-U(PU)
Instructions on use	TPE-U, ether-based
Note on materials	RoHS compliant
LABS (PWIS) conformity ¹⁾	VDMA24364-B2-L
Suitability for the production of Li-ion batteries ²⁾	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Element installed statically, no meaningful evaluation possible according to ISO 14644-1

1) Applies to PUN-H with O.D. 3 ... 16 mm and PUN-H-DUO

2) Applies to PUN-H with O.D. 3 ... 16 mm and PUN-H-DUO

Ordering data

Ordering data					
	Outside diameter	Product weight according to length	Colour	Part no.	Type
	4 mm	0.009 kg/m	Blue	8244548	PUN-H-LC-4X0,75-BL
			Light blue	8244549	PUN-H-LC-4X0,75-HBL
	6 mm	0.018 kg/m	Blue	8244550	PUN-H-LC-6X1-BL
			Light blue	8244551	PUN-H-LC-6X1-HBL
	8 mm	0.029 kg/m	Blue	8244552	PUN-H-LC-8X1,25-BL
			Light blue	8244553	PUN-H-LC-8X1,25-HBL
	10 mm	0.046 kg/m	Blue	8244554	PUN-H-LC-10X1,5-BL
			Light blue	8244555	PUN-H-LC-10X1,5-HBL
	12 mm	0.073 kg/m	Blue	8244556	PUN-H-LC-12X2-BL
			Light blue	8244557	PUN-H-LC-12X2-HBL