

Plastic tubing PLN

FESTO



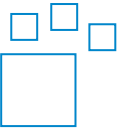
Characteristics

At a glance

Resistant to common cleaning agents and lubricants and FDA-compliant.

- Polyethylene
- High resistance to chemicals, microbes and hydrolysis
- For food-safe grade, see www.festo.com/certificates/PLN
- Resistant to most cleaning agents and lubricants
- Operating medium: compressed air, vacuum, water

Ordering data - modular system



Configurable product

This product and all its product options can be ordered online via the configurator.

Diagrams

[Further information → pln](#)



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

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.

Packaging unit [m]

Standard: 50 m

Type code

001	Series
PLN	Plastic tubing, polyethylene, standard O.D.
002	Pipe/tubing O.D. x wall thickness
4x0,75	4x0.75 mm
6x1	6x1 mm
8x1,25	8x1.25 mm
10x1,5	10x1.5 mm
12x1,75	12x1.75 mm
14x2	14x2 mm
16x2	16x2 mm

003	Colour
NT	Natural
SW	Black
BL	Blue
SI	Silver
RT	Red

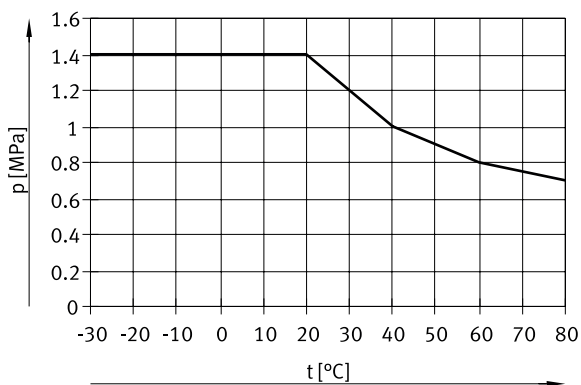
Datasheet

Operating and environmental conditions

Outside diameter	4 mm	6 mm	8 mm	10 mm	12 mm	14 mm	16 mm	
Inside diameter	2.9 mm	4 mm	5.9 mm	7 mm	8.4 mm	10 mm	12 mm	
Pneumatic connection	For push-in connector O.D. 4 mm For barbed fitting I.D. 3 mm with union nut For barbed fitting I.D. 3 mm	For push-in connector O.D. 6 mm For barbed fitting I.D. 4 mm with union nut For barbed fitting I.D. 4 mm	For push-in connector O.D. 8 mm For barbed fitting inside diameter of 6 mm with union nut For barbed fitting inside diameter of 6 mm	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	25 mm	32 mm	50 mm	57 mm	65 mm	80 mm	95 mm	
Min. bending radius	12 mm	11 mm	23 mm	22 mm	23 mm	40 mm	55 mm	
Temperature-dependent operating pressure	-0.095 ... 1.4 MPa							
Temperature-dependent operating pressure	-0.95 ... 14 bar							
Temperature-dependent operating pressure	-13.775 ... 203 psi							
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:] Water as per manufacturer's declaration at www.festo.com Water (liquid, ice-free)	Compressed air to ISO 8573-1:2010 [7:-:] Water (liquid, ice-free)					Compressed air to ISO 8573-1:2010 [7:-:] Water as per manufacturer's declaration at www.festo.com Water (liquid, ice-free)	
Suitable for use with food ¹⁾	See supplementary material information							
Ambient temperature	-30 ... 80°C							
Approval	German Technical Control Board (TÜV)							
Certificate issuing authority	B 013277 0506 00							

1) Further information www.festo.com/catalogue/pln → Support/Downloads.


Operating pressure p as a function of temperature t



Materials

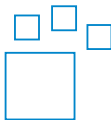
Material tubing	PE
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom class	Element installed statically, no meaningful evaluation possible according to ISO 14644-1

Ordering data

Ordering data							
	Outside diameter	Packaging unit [m] ¹⁾	Product weight according to length	Colour	Part no.	Type	
	4 mm	50 m	0.006 kg/m	Blue	558205	PLN-4X0,75-BL	
				Natural	193403	PLN-4X0,75-NT	
				Red	558217	PLN-4X0,75-RT	
				Black	195280	PLN-4X0,75-SW	
				Silver	558211	PLN-4X0,75-SI	
	6 mm		Standard	0.015 kg/m	Blue	558206	PLN-6X1-BL
					Natural	193404	PLN-6X1-NT
					Red	558218	PLN-6X1-RT
					Black	195281	PLN-6X1-SW
					Silver	558212	PLN-6X1-SI
	8 mm	Standard		0.021 kg/m	Blue	558207	PLN-8X1,25-BL
					Natural	193405	PLN-8X1,25-NT
					Red	558219	PLN-8X1,25-RT
					Black	195282	PLN-8X1,25-SW
					Silver	558213	PLN-8X1,25-SI
	10 mm		Standard	0.037 kg/m	Blue	558208	PLN-10X1,5-BL
					Natural	193406	PLN-10X1,5-NT
					Red	558220	PLN-10X1,5-RT
					Black	195283	PLN-10X1,5-SW
					Silver	558214	PLN-10X1,5-SI
	12 mm	Standard		0.054 kg/m	Blue	558209	PLN-12X1,75-BL
					Natural	193407	PLN-12X1,75-NT
					Red	558221	PLN-12X1,75-RT
					Black	195284	PLN-12X1,75-SW
					Silver	558215	PLN-12X1,75-SI
	14 mm		Standard	0.07 kg/m	Natural	570424	PLN-14X2-NT
					Black	570423	PLN-14X2-SW
	16 mm			Standard	0.082 kg/m	Blue	558210
Natural						539064	PLN-16X2-NT
Red						558222	PLN-16X2-RT
Black		539065				PLN-16X2-SW	
Silver		558216				PLN-16X2-SI	

1) Standard: 50 m

Ordering data – Modular product system

	Short type code	Part no.	Type
	PLN	553850	PLN