

Plastic tubing PFAN

FESTO



Characteristics

At a glance



Particularly resistant to chemicals, cleaning processes, extreme temperatures and pressure. Perfect for use in the food industry, e.g. in meat processing.

- Perfluoroalkoxyalkane
- Pneumatic tubing with resistance to high temperatures and chemicals
- For food-safe grade, see www.festo.com/certificates/PFAN
- High resistance to chemicals, microbes, UV radiation, hydrolysis and stress cracks
- Operating medium: compressed air, vacuum, water

Additional documents

[Link](#) [pfan](#)



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).

Diagrams

[Link](#) [pfan](#)



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	
PFAN	Plastic tubing	

002	Pipe/tubing O.D. x wall thickness	
3x0,5	3x0.5 mm	
4x0,75	4x0.75 mm	
6x1	6x1 mm	
8x1,25	8x1.25 mm	
10x1,5	10x1.5 mm	
12x1,75	12x1.75 mm	

003	Colour	
NT	Natural	

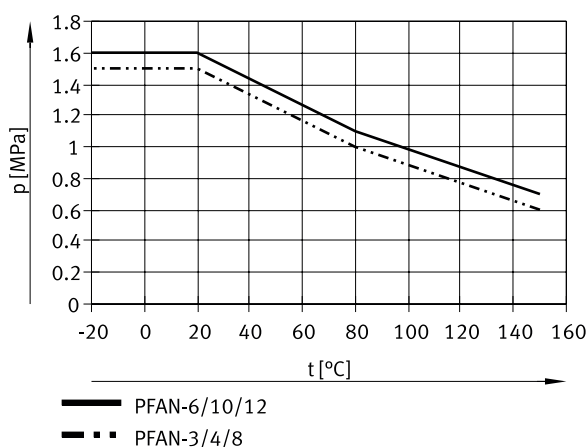
Datasheet

Operating and environmental conditions						
Outside diameter	3 mm	4 mm	6 mm	8 mm	10 mm	12 mm
Inside diameter	2.3 mm	2.9 mm	4 mm	5.9 mm	7 mm	8.4 mm
Pneumatic connection	For push-in connector outside diameter of 3 mm For barbed fitting inside diameter of 2 mm	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
Flow-relevant bending radius	30 mm	37 mm	50 mm	110 mm	140 mm	165 mm
Min. bending radius	10 mm	11 mm	12 mm	25 mm	22 mm	29 mm
Temperature-dependent operating pressure	-0.095 ... 1.5 MPa		-0.095 ... 1.6 MPa	-0.095 ... 1.5 MPa	-0.095 ... 1.6 MPa	
Temperature-dependent operating pressure	-0.95 ... 15 bar		-0.95 ... 16 bar	-0.95 ... 15 bar	-0.95 ... 16 bar	
Temperature-dependent operating pressure	-13.775 ... 217.5 psi		-13.775 ... 232 psi	-13.775 ... 217.5 psi	-13.775 ... 232 psi	
Operating pressure complete temperature range	-0.095 ... 0.6 MPa		-0.095 ... 0.7 MPa	-0.095 ... 0.6 MPa	-0.095 ... 0.7 MPa	
Operating pressure complete temperature range	-0.95 ... 6 bar		-0.95 ... 7 bar	-0.95 ... 6 bar	-0.95 ... 7 bar	
Operating pressure complete temperature range	-13.775 ... 87 psi		-13.775 ... 101.5 psi	-13.775 ... 87 psi	-13.775 ... 101.5 psi	
Note on operating pressure	Water: max. 0.6 MPa at 0 - 85°C Water vapour: 0 – 0.15 MPa, 0 – 1.5 bar, 0 – 22 psi					
Operating medium ¹⁾	Compressed air to ISO 8573-1:2010 [7:::] Water (liquid, ice-free) Water vapour					
Note on temperature of medium	Steam: max. 120°C					
Suitable for use with food ²⁾	See declaration of conformity					
Ambient temperature	-20 ... 150°C					
Fire test material	UL94 V-0					

1) More information www.festo.com/catalogue/pfan → Support/Downloads.

2) More information www.festo.com/catalogue/pfan → Support/Downloads.

Operating pressure p as a function of temperature t



Datasheet

Materials

Shore hardness	D 60 +5
Material tubing	PFA
Note on materials ¹⁾	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom suitability, measured according to ISO 14644-14	Element installed statically, no meaningful evaluation possible according to ISO 14644-1
Instructions on use	Tubing without printing

1) Tubing without printing

Ordering data

Ordering data						
	Outside diameter	Packaging unit [m] ¹⁾	Product weight according to length	Colour	Part no.	Type
	3 mm	Standard	0.007 kg/m	Natural	8061167	PFAN-3X0,5-NT
	4 mm		0.012 kg/m		197061	PFAN-4X0,75-NT
	6 mm		0.034 kg/m		197062	PFAN-6X1-NT
	8 mm		0.049 kg/m		197063	PFAN-8X1,25-NT
	10 mm		0.087 kg/m		197064	PFAN-10X1,5-NT
	12 mm		0.125 kg/m		197065	PFAN-12X1,75-NT

1) Standard: 50 m