## Plastic tubing, inch PEN

# **FESTO**



### Characteristics

#### At a glance

Very flexible with high abrasion resistance as well as an attractive price for a wide range of applications.

- Polyethylene
- High resistance to chemicals and very high resistance to hydrolysis
- · Resistant to most cleaning agents and lubricants
- Suitable for energy chains
- Operating medium: compressed air, vacuum, water

Additional documents

Link & pen-inch



The additional document OD-TUBING-NPT-ADD contains further information on tubing/fitting combinations, assembly instructions and measuring procedures.

#### Ordering data - modular system

Link & pen-inch



Configurable product

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

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 rate calculation: Determine the nominal flow rate by entering parameters such as input pressure, output pressure, tube length and inside diameter.
- Media resistance: Evaluate the resistance of different material types and tubing from Festo to different chemicals and media.

### **Tubing outside diameter**

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

### Type code

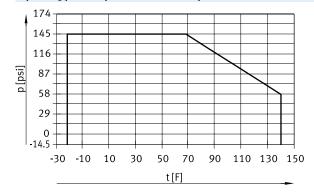
001	Series					
PEN	Plastic tubing					
002	Tubing outside diameter					
3/16	3/16"					
1/4	1/4"					
5/16	5/16"					
3/8	3/8"					
1/2	1/2"					
5/8	5/8"					

003	Colour	
BL	Blue	
SW	Black	
1	1	
004	Packaging unit [ft]	
150	150 ft	
005	Packaging	
СВ	Cardboard box	

### Datasheet

Operating and environmental conditions						
Pneumatic connection	For push-in connector outside diameter of 3/16"	For push-in connector O.D. 1/4"	For push-in connector O.D. 8 mm For push-in connector outside diameter of 5/16"	For push-in connector O.D 3/8"	For push-in connector O.D 1/2"	For push-in connector outside diameter of 5/8"
Outside diameter inch	3/16	1/4	5/16	3/8	1/2	5/8
Flow-relevant bending radius	0.075 Feet	0.085 Feet	0.114 Feet	0.131 Feet	0.196 Feet	0.41 Feet
Min. bending radius	0.039 Feet	0.041 Feet	0.073 Feet	0.088 Feet	0.108 Feet	0.196 Feet
Operating pressure complete temperature range	-0.095 0.4 MPa					
Operating pressure complete temperature range	-0.95 4 bar					
Operating pressure complete temperature range	-13.775 58 psi					
Temperature-dependent operating pressure	-0.095 1 MPa					
Temperature-dependent operating pressure	-0.95 10 bar					
Temperature-dependent operating pressure	-13.775 145 psi					
Note on operating pressure	Water: max. 0.6 MPa at 0 - 50°C					
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-] Water (liquid, ice-free)					
Ambient temperature	-22 140°F					
Tubing characteristics	Suitable for energy chains					

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



### Materials

Shore hardness	D 52 +/-3
Material tubing	PE
Note on materials	RoHS-compliant 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

### Ordering data

Pneumatic con- nection	Packaging unit [ft]	Product weight according to length	Colour	Part no.	Туре
For push-in con-	150 ft	0.25 oz/ft	Blue	569892	PEN-5/16-BL-150-CB
nector O.D. 8 mm, For push-in connector out- side diameter of 5/16"			Black	569884	PEN-5/16-SW-150-CB
For push-in con- nector outside diameter of 3/16"		0.1 oz/ft		569882	PEN-3/16-SW-150-CB
For push-in con-		0.186 oz/ft	Blue	569891	PEN-1/4-BL-150-CB
nector O.D. 1/4"			Black	569883	PEN-1/4-SW-150-CB
For push-in con-		0.376 oz/ft	Blue	569893	PEN-3/8-BL-150-CB
nector O.D 3/8"			Black	569885	PEN-3/8-SW-150-CB
For push-in con-		0.848 oz/ft	Blue	569894	PEN-1/2-BL-150-CB
nector O.D 1/2"	]		Black	569886	PEN-1/2-SW-150-CB
For push-in con- nector outside diameter of 5/8"		1.158 oz/ft	Blue	569895	PEN-5/8-BL-150-CB

Ordering data – Modular product system					
	Short type code	Part no.	Туре		
	PEN	567448	PENU		