

Customised tubing, inches PEN, PLN, PUN

**FESTO**



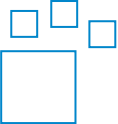
## Characteristics

### At a glance

Customised tubing PUN, PEN, PLN for different requirements for pressure, temperature, flexibility and environmental influences.

- PEN: polyethylene tube; highly resistant to chemicals and extremely resistant to hydrolysis; largely resistant to common cleaning agents and lubricants; suitable for energy chains; operating media: compressed air, vacuum, water (for water, see manufacturer's declaration at [www.festo.com/certificates/PEN\\_S](http://www.festo.com/certificates/PEN_S))
- PLN: polyethylene tube; highly resistant to chemicals, microbes and hydrolysis; for suitability in the food industry, see [www.festo.com/certificates/PLN](http://www.festo.com/certificates/PLN); operating media: compressed air, vacuum, water (for water according to manufacturer's declaration, see [www.festo.com/certificates/PLN](http://www.festo.com/certificates/PLN))
- PUN: polyurethane tubing; very resistant to stress cracks; suitable for energy chains; operating media: compressed air, vacuum

### Ordering data - modular system



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

- Customised lengths: delivery in packs of 150, 500, 1000, 1500 ft
- Customised design: specific printing possible
- Individual colour selection for easier recognition and handling
- Select, size and order quickly, easily and reliably with the configurator

## Type code

001	Series
<b>PLN</b>	Plastic tubing, polyethylene, standard O.D.
<b>PEN</b>	Plastic tubing
<b>PUN</b>	Plastic tubing, polyurethane

002	Tubing outside diameter
<b>1/8</b>	1/8"
<b>5/32</b>	5/32"
<b>3/16</b>	3/16"
<b>1/4</b>	1/4"
<b>5/16</b>	5/16"
<b>3/8</b>	3/8"
<b>1/2</b>	1/2"
<b>5/8</b>	5/8"

003	Tube colour
<b>BK</b>	Black
<b>BL</b>	Blue
<b>BN</b>	Brown
<b>GN</b>	Green
<b>NT</b>	Natural
<b>RD</b>	Red
<b>SR</b>	Silver
<b>WH</b>	White
<b>YE</b>	Yellow

004	Packaging unit [ft]
<b>150</b>	150 ft
<b>500</b>	500 ft
<b>1000</b>	1000 ft
<b>1500</b>	1500 ft

## Datasheet

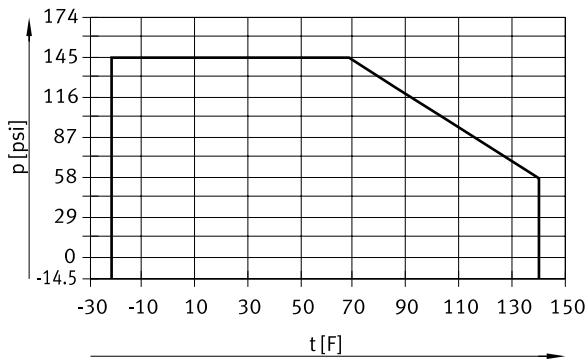
### Operating and environmental conditions

Short type code	PEN	PLN	PUN-
Temperature-dependent operating pressure	-0.95 ... 10 bar	-0.95 ... 14 bar	–
Operating medium	Compressed air to ISO 8573-1:2010 [7:-], Water (liquid, ice-free)		Compressed air to ISO 8573-1:2010 [7:-]
Ambient temperature	-22 ... 140°F	-22 ... 177.8°F	-31 ... 140°F
Fire test material	–		UL94 HB
Tubing characteristics	Suitable for energy chains	–	Suitable for energy chains

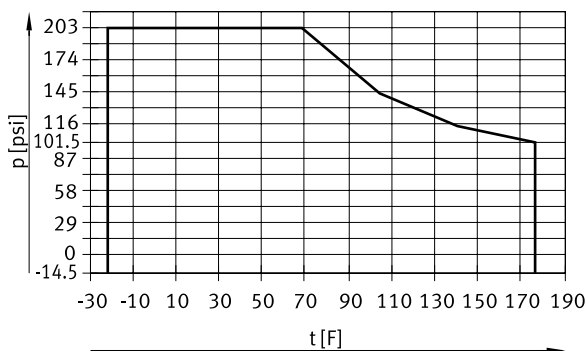
### Materials

Short type code	PEN	PLN	PUN-
Material tubing	PE		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	–	Element installed statically, no meaningful evaluation possible according to ISO 14644-1

### Operating pressure p as a function of temperature t (PEN; NPT)



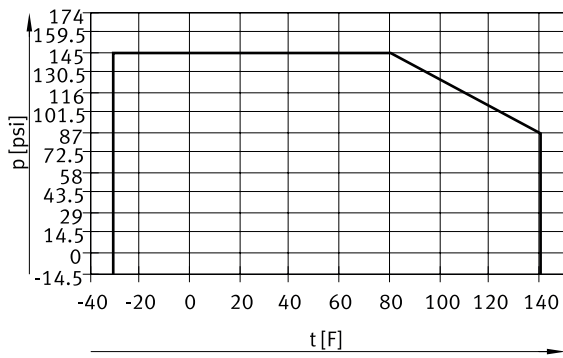
### Operating pressure p as a function of temperature t (PLN; NPT)



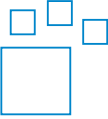
Deviating maximum operating pressures apply to the medium water, with a safety factor of  $s=4$ .

## Datasheet

Operating pressure  $p$  as a function of temperature  $t$  (PUN-H; NPT)



## Ordering data

Ordering information – Modular product system			
	Short type code	Part no.	Type
	PEN	567448	PEN-.-U
	PLN	567449	PLN-.-U
	PUN-	567446	PUN-U