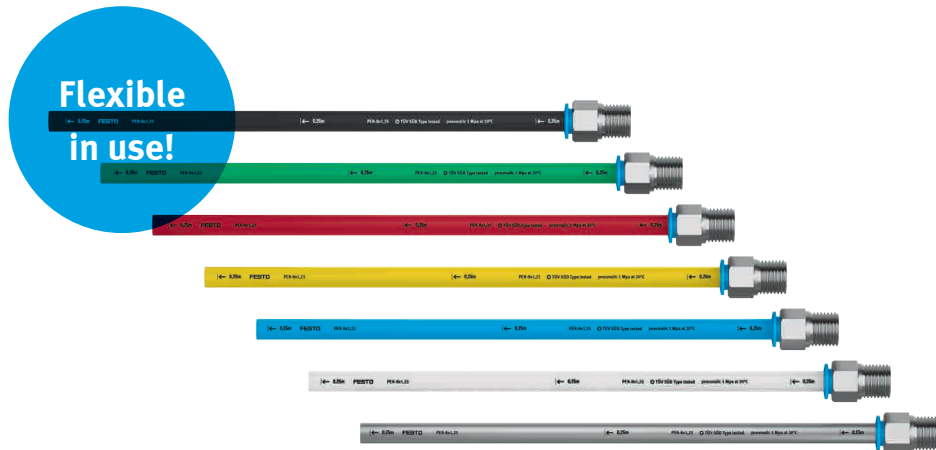


Plastic tubing PEN

FESTO



Attractively priced!

Highlights

- Attractively priced
- Flexible and highly resistant
- Good creep behaviour
- High abrasion resistance
- Resistant to hydrolysis
- Resistant to chemicals
- Low CO₂ footprint in manufacturing

The tubing for your standard applications:

Together with the fittings QS, PEN offers the optimal complete solution. This combination offers a versatile range of applications and is optimally designed for continuous operation of your systems.

Versatile and attractively priced:

The cost-effective tubing PEN is ideal for your standard pneumatic applications. When combined with the QS range of fittings, it offers a complete technical and cost-effective package.

Reliable compressed air supply:

PEN doesn't suffer from cracking caused by hydrolysis, whether it is used in standard applications or in contact with water at up to 50 °C.

High abrasion resistance in areas with a high friction ratio:

In applications with higher friction conditions, such as cable chains, the tubing PEN demonstrates excellent abrasion behaviour. When correctly installed, with the minimum allowable radius in the installation space, the tubing PEN is very durable even with highly dynamic motions.

Short installation time thanks to proven plug and work

Connecting and disconnecting is made really quick and easy with the fittings QS in the standard Festo quality thanks to their proven sealing and release principle.

Plastic tubing PEN

Technical data

Feature	Tube PEN	Push-in fitting QS/QSM ★	Push-in fitting NPQM
Material	Polyethylene (cross-linked)	Housing: PBT/brass, nickel-plated Sealing ring: NBR Releasing ring: POM Tubing retainer mechanism: stainless steel	Housing: brass, nickel-plated Sealing ring: NBR Releasing ring: brass, nickel-plated Tubing retainer mechanism: stainless steel
Version			
Tubing OD [mm]	4, 6, 8, 10, 12, 14, 16	2, 3, 4, 6, 8, 10, 12, 16, 22	3, 4, 6, 8, 10, 12, 14
Connecting thread	–	Male thread M3, M5, M7; G1/8 ... G3/4; R1/8 ... R3/4	Male thread M5, M7; G1/8 ... G1/2
Colour	Blue, black, silver, green, red, yellow, natural	–	–
Area of application			
Operating pressure [MPa]	–0.095 ... +1.0	–0.095 ... +1.4	–0.095 ... +1.6
Operating temperature [°C]	–30 ... +60	–10 ... +80	–20 ... +70
Resistance and suitability¹⁾			
Chemical resistance	++	+	+
Hydrolysis resistance	+++	+++	+++
Operating media	Compressed air, vacuum, water ²⁾	Compressed air, vacuum, water ²⁾	Compressed air

1) +++ Highly suitable ++ Suitable + Moderately suitable – Not suitable

2) As per the manufacturer's declaration

Note:

The manufacturing process for the tubing PEN is sustainable: production requires less energy compared to similar plastic tubing. This results in a small CO₂ footprint.

Application example:

Assembly line with low bending cycles

