

# Tubing/fitting combination PUN-H-SF/NPQR

FESTO



## For high pressure ranges!

### Highlights

- Also suitable for high operating pressures
- Hydrolysis-resistant
- Extremely flexible, very resistant to kinking
- Resistant to microbes
- For operating temperatures up to 80 °C
- Large variety of diameters up to 25 mm

**PUN-H-SF is the best combination for you when you require flexible and kink-resistant installation and high pressure ranges at the same time. Together with the fittings NPQR, PUN-H-SF is the perfect solution for diameters up to 16 mm. Tube fitting concepts are ideal for the sizes 18 to 25 mm of the tubing series PUN-H-SF.**

### Strong, even at high temperatures

The design of the PUN-H-SF makes it the ideal tube for use in areas with a higher working pressure. The wall thickness and material properties of the tube are perfectly matched so that you can apply a high operating pressure of up to 1.3 MPa at an operating temperature of up to 25 °C. The PUN-H-SF can also easily withstand high operating temperatures of up to 80 °C, depending on the corresponding maximum permissible operating pressure.

### Highly flexible and kink-resistant

The kink-resistant PUN-H-SF is easy to install in your system. This is also the case for the larger variants with a diameter of up to 25 mm; they still allow a small bending radius thanks to their increased wall thicknesses.

### Reliable

The black version of the tubing is UV-resistant and can thus also be used outdoors. A further benefit is its resistance to hydrolysis and microbes. This makes it excellent for use in standard applications, even in the high pressure range, as well as in wet areas with water, as the material is immune to hydrolysis-induced cracking.

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## Technical data

Feature	Tubing PUN-H-SF	Stainless-steel fitting NPQR	Metal fitting NPQH***
<b>Material</b>	Polyurethane	Housing: stainless steel	Housing: brass, chemically nickel-plated
	Calibration: external	Sealing ring: FPM	Sealing ring: FPM
		Releasing ring: stainless steel	Releasing ring: brass, chemically nickel-plated
		Tubing clip mechanism: stainless steel	Tubing clip mechanism: stainless steel
<b>Version</b>			
Tubing O.D. [mm]	4, 6, 8, 10, 12, 14, 16, 18, 22, 25	4, 6, 8, 10, 12, 14, 16	4, 6, 8, 10, 12, 14
PUN-H-SF colours	Blue/black		
Thread		M and G threads M5, M7, 1/8 ... 1/2	M and G threads M5, M7, 1/8 ... 1/2
<b>Application area</b>			
Operating pressure [MPa]	-0.095 ... +1.3	-0.095 ... +1.6	-0.095 ... +2
Operating temperature [°C]	-35 ... +80	-20 ... +150	0 ... +150
<b>Resistance and suitability*</b>			
Chemical-resistant	+	+++	
Hydrolysis-resistant	++	+++	
Food-safe	FDA and EU listed materials		
Media	Compressed air, vacuum, water**		

\* +++ Highly suitable ++ Suitable + Moderately suitable – Not suitable

\*\* As per the manufacturer's declaration

\*\*\* As a low-cost alternative to the stainless steel fitting NPQR in application areas where stainless steel is not recommended.

### PUN-H-SF:

for highly flexible use in areas where safety-oriented load capacity at high operating pressures is required.



Can also be used as an alternative to metallic cables, depending on the application area