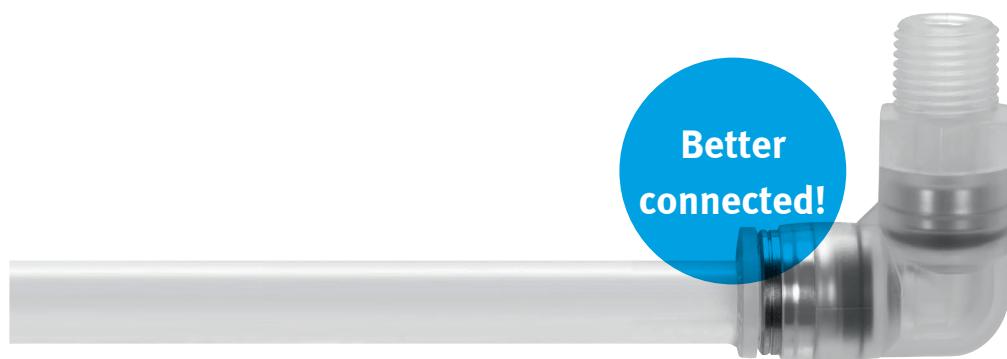


# Tubing/fitting combinations

**FESTO**



## From a single source

### Highlights

- Everything from a single source – the ideal combination for every task
- Extremely easy selection with the product finder
- Individual solutions thanks to a wide range of variants and the modular tubing system

**Variety is standard at Festo. Our range of tubing and fittings covers every conceivable task. Regardless of whether your selection is determined by standard requirements or extreme conditions such as heat, welding spatter, high pH values or resistance to hydrolysis.**

**Easy selection, large assortment**  
The product finder helps you arrive at a tailored combination quickly and easily. Your selection is simply transferred to the online shop. Purchasing is made convenient and reliable. Try it out – we really do make work easier for you.

**Customised tubing from the modular tubing system**  
Your wish is our command: if you want individualised tubing, our modular tubing system is just what you're looking for.

### Reliability as standard from Festo

Fit and forget: our matching tubing/fitting combinations are durable, dependable and functionally reliable. And they help save energy by reducing the risk of leaks.

### Optimally matched!

Our tubing/fitting combinations, our new range of one-way flow control valves and our proximity sensors complement each other perfectly when it comes to the systematically reliable operation of your actuators.

# Tubing/fitting combinations

## Our top combinations for you:

### Standard

|     |   |    |   |                 |         |   |
|-----|---|----|---|-----------------|---------|---|
| PEN | + | QS |  | 60 °C<br>-10 °C | 1 MPa   | Suitable for a wide range of tasks and attractively priced. Flexible and highly resistant to abrasion |
| PUN | + | QS |  | 60 °C<br>-10 °C | 1 MPa   | Maximum flexibility in standard applications thanks to the great number of possible combinations      |
| PAN | + | QS |  | 80 °C<br>-10 °C | 1,4 MPa | For standard applications with increased pressure and temperature ranges                              |

### High pressures

|        |      |   |                 |         |   |
|--------|------|---|-----------------|---------|---|
| PAN-MF | NPQM |  | 70 °C<br>-20 °C | 1,6 MPa | Complies with DIN 73378: ideal for use in mobile pneumatics |
| PAN-R  | NPQH |  | 80 °C<br>0 °C   | 2 MPa   | High-performance in pressure ranges up to 2 MPa             |

### Resistant to chemicals, food-safe\* and hydrolysis-resistant

|       |      |   |                  |         |   |
|-------|------|---|------------------|---------|---|
| PLN   | NPQP |  | 60 °C<br>-20 °C  | 1 MPa   | Resistant to cleaning agents, FDA compliant and economical  |
| PUN-H | NPKA |  | 60 °C<br>-10 °C  | 1 MPa   | Hydrolysis resistant and suitable for water applications. Very easy to install thanks to the "one click principle"  |
| PFAN  | NPQH |  | 150 °C<br>0 °C   | 1,6 MPa | For high temperatures up to 150°C. Food-safe*, FDA-compliant and resistant to cleaning agents   |
| PFAN  | NPQR |  | 150 °C<br>-20 °C | 1,6 MPa | Optimised design, fewer edges where dirt can collect. For high temperatures up to 150°C. Pressure range up to 1,6 MPa. Highest level of corrosion resistance (CRC 4). |
| PFAN  | NPCK |  | 120 °C<br>-20 °C | 1,2 MPa | Easy to clean. Maximum resistance to corrosion (CRC 4) and FDA-compliant.   |

### Antistatic

|        |      |   |                 |       |   |
|--------|------|---|-----------------|-------|---|
| PUN-CM | NPQM |  | 60 °C<br>-20 °C | 1 MPa | Maximum protection for electrical and electronic components |
|--------|------|---|-----------------|-------|---|

### Flame-retardant

|        |      |   |                 |       |  |
|--------|------|---|-----------------|-------|--|
| PUN-VO | NPQM |  | 60 °C<br>-20 °C | 1 MPa | For areas with high risk of fire, tested in accordance with DIN 5510-2 |
|--------|------|---|-----------------|-------|--|

### Resistant to welding spatter

|          |       |   |               |       |   |
|----------|-------|---|---------------|-------|---|
| PUN-VO-C | NPQH  |  | 60 °C<br>0 °C | 1 MPa | Tubing wall thicknesses from 2 mm for all diameters |
| PAN-VO   | QS-V0 |  | 60 °C<br>0 °C | 1 MPa | Double wall tubing with special fitting             |

### Information on media resistance

[www.festo.com/media\\_resistance](http://www.festo.com/media_resistance)



Tip:

Use our tools, for example for physical units for calculating the flow rate:

→ [www.festo.com/CalculationTools](http://www.festo.com/CalculationTools)

**Reliable selection has never been this easy: the free product finder for tubing and fittings.**

Just open the product finder in the Online Shop. Enter your application-specific requirements and let our system guide you quickly and reliably to an appropriate solution. Searching is made extremely convenient!

Get started by following these links:

[www.festo.com/productfinder/tubing](http://www.festo.com/productfinder/tubing)

[www.festo.com/productfinder/fittings](http://www.festo.com/productfinder/fittings)

### Customised tubing from the modular tubing system

The modular system allows you to:

- Specify individualised lengths and packaging units,
- Order customised printing and labelling,
- Select from 7 basic colours with others available on request.

\* Suitable for use with food in accordance with supplementary material information/declaration of conformity

→ [www.festo.com/supportportal](http://www.festo.com/supportportal)