

Fluidic push-in fitting NLFA

FESTO



A perfect connection for fluids

Highlights

- 2-in-1 pre-assembled module: easy to manage, select and order
- Perfect fit with needles VAVN and tubing PUN-H or PFAN
- Clamped and plugged version
- Developed to ISO 13485
- Connection without dead space
- FDA-listed materials for aggressive chemicals

You can use the fluidic push-in fittings NLFA to create perfect fluidic connections between different components, without any dead spaces. You can easily connect different tubing and dosing needles to the push-in fittings, making them ideal for laboratory automation.

2-in-1 pre-assembled: slot and ferrule

The innovative technology simplifies the installation of the fluidic connections: the two separate parts of the push-in fitting are already fitted together and do not need to be ordered separately or mounted.

Perfect fit with needles VAVN

You can easily put your own dispense head together, e.g. with valves VYKA and a sub-base VABS.

Clamped and plugged version

Flexible and adapted for your requirements thanks to a range of different types of tubing or needles that you can use.

Plug without dead space

The push-in fittings NLFA are very easy to clean and they significantly reduce your consumption of expensive media.

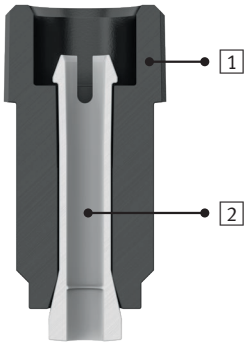
FDA-listed materials for aggressive chemicals

The material in contact with media is polypropylene. You can also use the push-in fittings with aggressive media. Time and effort spent on testing will be reduced too.

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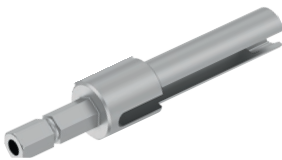
At a glance

Benefits



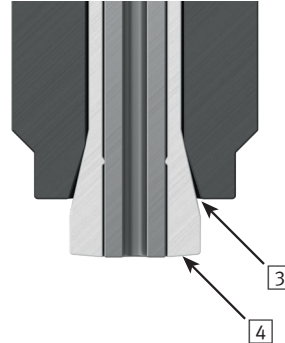
- Slot [1] and ferrule [2] are integrated into one product
- Pre-assembled module that is easy to manage, select and order
- Greater stability of the tubing and needle thanks to extended ferrule

Additional assembly tool NPAT



- For easy assembly with defined torque

Clamping and sealing



- Optimised clamping with differently tapered slot and ferrule [3]
- Defined sealing edge as the front edge close to the tubing is curved outwards [4]

Dosing needle VAVN



- For dispensing and aspiration applications
- 10 different needles available
- Dosing needles VAVN fit perfectly with push-in fitting NLFA

Technical data

Fluidic push-in fitting NLFA	
Pack size	10 pieces
Sealing principle	Hard
Medium	Gaseous or liquid media
Operating pressure	-0.075 ... 0.6 MPa (NLFA-...-K...) -0.075 ... 0.4 MPa (NLFA-...-B...)
Ambient temperature	0 ... 50 °C (NLFA-...-K...) 0 ... 35 °C (NLFA-...-B...)
Temperature of medium	0 ... 50 °C (NLFA-...-K...) 0 ... 35 °C (NLFA-...-B...)
Product weight	0.4 ... 1.4 g
Design	Straight
Fluid connection 1	UNF 1/4-28
Fluid connection 2	OD: 1.6; 3.0; 3.2 mm (NLFA-...-K...) ID: 1.2; 2.1mm (NLFA-...-B...)
Material in contact with the medium	PP
Material of the slot	PA10 GF50
Special features	FDA-listed materials (parts in contact with media)

Dosing element VAVN	
Pack size	10 pieces
Dosing needle outside diameter	1.6 mm
Length of dosing needle	30, 60 mm
Nominal width of dosing needle	0.3; 0.6; 1.2 mm
Design of dosing needle	With chamfer, with taper
Operating pressure	0 ... 0.4 MPa
Ambient temperature	5 ... 60 °C
Temperature of medium	5 ... 60 °C
Material of dosing needle	High-alloy stainless steel, 1.4404
Corrosion resistance class ¹⁾	CRC3

1) Corrosion resistance class CRC 3 in accordance with Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderately corrosive conditions.
Externally visible parts with primarily functional surface requirements that are in direct contact with a normal industrial environment.