



FLUIDLINE
YOUR BEST CONNECTION

Stainless Steel Push-In Fittings

For leak-free connections



FLUIDLINE offers push-to-connect fittings in full Stainless Steel.

Quick and easy to connect and remove, these fittings save time on pneumatic soft tube systems and can be used with Dekabon, Poly and Nylon tube.

316 Stainless Steel Push-In fittings are made from forged or machined bar stock 316 Stainless Steel, and are suitable for applications where corrosion resistance is important.

Application:

FLUIDLINE Stainless Steel Push-in-Fittings are resistant to aggressive environments and corrosive fluids etc., which are generally used in Chemical, Food, Printing, Packaging, Marine and Pharmaceutical Industries.

FLUIDLINE Stainless Steel Push-in-Fittings are compatible with:

- Semi-rigid nylon tube
- Flexible polyurethane tube
- Low density polyethylene tube
- Fluoropolymer FEP140 tube
- Stainless Steel and copper tube when grooved.

Design:

FLUIDLINE Stainless Steel Push-in-Fittings consist of six precision components such as Body, Releasing Sleeve, Washer, Gripping Collet, Guide Ring and 'O' Ring.

These components have been carefully designed and manufactured to very stringent tolerances under rigid quality control procedures approved to ISO 9001:2000 to provide a zero leak at all tubing connections in instrumentation and process tubing.

Advantages:

FLUIDLINE Stainless Steel Push-in-Fittings are:

- Easy for manual connection and disconnection
- No tools required for connection and disconnection
- Full flow without pressure drop
- Automatic tube sealing with 'O' Ring and locking with gripping collet.

Surface Treatment:

Each and every Stainless Steel component of FLUIDLINE Push-in-fittings are electropolished to ensure a corrosion resistant surface layer of chromium oxide which is passivated.

Operating parameters:

Pressure: up to 290 PSI (20 bar)

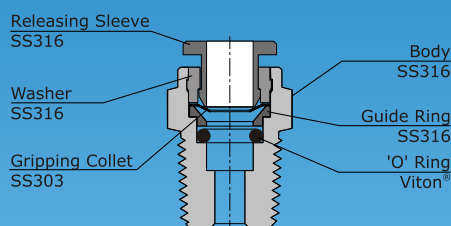
Temperature: upto 1500 C

Available Sizes:

Metric size ranges from:
4mm through 16mm Tube OD
Fractional size ranges from:
3/16" through 5/8" Tube OD.

Recommended tolerance on tube ± 0.05 mm

Material of Construction:



Note: 'O' Ring EPDM is available on request

The Stainless Steel 316 raw material meets the following specifications.

- SS-316 BAR STOCK: ASTM A-479
- SS-316 FORGING: ASTM A-182

Identifications:

FLUIDLINE metric and fractional size Stainless Steel Push-in-Fittings are similar in appearance. The significant difference is in the internal diameter of the Push-in-Fittings components, hence for easy identification between metric and fractional sizes. FLUIDLINE provides 'V' Groove on Fractional size Push-in-Fittings as shown here.

Installation Instructions:

- 1) **For Tube:** Semi-rigid Nylon Tube, Flexible polyurethane tube, Low density polyethylene tube, Fluoropolymer FEP140 tube

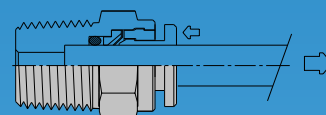
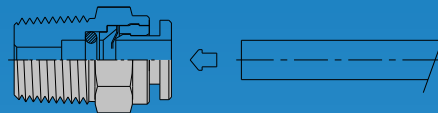
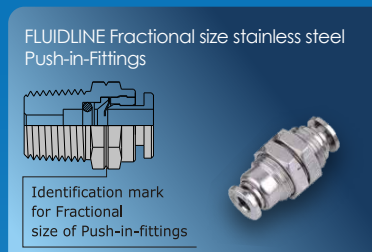
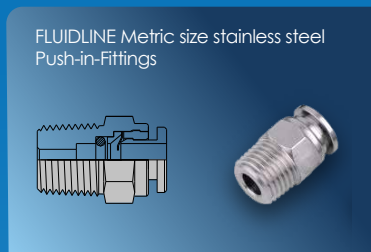
Ensure that the end of tube is cut square (90°) and free from burrs and sharp edges.

For Tube: Stainless steel and copper tube

Ensure that the end of the tube is cut square (90°) and chamfer the outer corner of the tube, remove the burrs and sharp edges to prevent damage of 'O' Ring. Provide groove for tube gripping and locking.

- 2) Insert the tube by hand into the fitting assembly, resting it firmly against the internal shoulder of the fittings. The Gripping collet holds the tube firmly in place, without deforming the tube or restricting flow.

- 3) To release the Tube: press the releasing sleeve and pull out the tube from the fitting.



Ordering Instructions:

The part number describes complete assembly of FLUIDLINE Push-in Fittings.

Example: For Metric size : PIFTMC-6-250RT-EV

| PIFTMC | 6 | 250 | RT | E | V |
|----------------------|---------|-------------|---------------------|----------|----------|
| Type of Fitting | Tube OD | Pipe Thread | Type of Pipe Thread | Material | 'O' RING |
| Taper Male Connector | 6mm | 1/4" | BSPT | SS 316 | VITON® |

Example: For Fractional size : PIFTMC-250-250N-EV

| PIFTMC | 250 | 250 | N | E | V |
|----------------------|---------|-------------|---------------------|----------|----------|
| Type of Fitting | Tube OD | Pipe Thread | Type of Pipe Thread | Material | 'O' RING |
| Taper Male Connector | 1/4" | 1/4" | NPT | SS 316 | VITON® |

SIZE CODE DESCRIPTION:

| Metric | | Fractional | |
|--------|------|------------|------|
| Size | Code | Size | Code |
| 4mm | 4 | 3/16 | 187 |
| 6mm | 6 | 1/4 | 250 |
| 8mm | 8 | 5/16 | 312 |
| 10mm | 10 | 3/8 | 375 |
| 12mm | 12 | 1/2 | 500 |
| 14mm | 14 | 5/8 | 625 |
| 16mm | 16 | | |

THREAD CODE DESCRIPTION:

| Thread Type | Code |
|---|------|
| NPT Thread | N |
| ISO Tapered Thread (BSPT) | RT |
| ISO Parallel Thread (BSP) with Elastomeric 'O' Ring | EO |
| Metric Thread with Elastomeric 'O' Ring | MEO |

MATERIAL CODE DESCRIPTION:

| Description of Material | Code |
|-------------------------|------|
| SS316 | E |
| 'O' Ring Viton® | V |
| 'O' Ring EPDM | P |

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