



Overview

Why Choose Push-To-Connect Fittings?

Assembly is simple, efficient and reliable. Simply cut the tubing square with a tubing cutter, and push the tubing into the fitting until it locks.

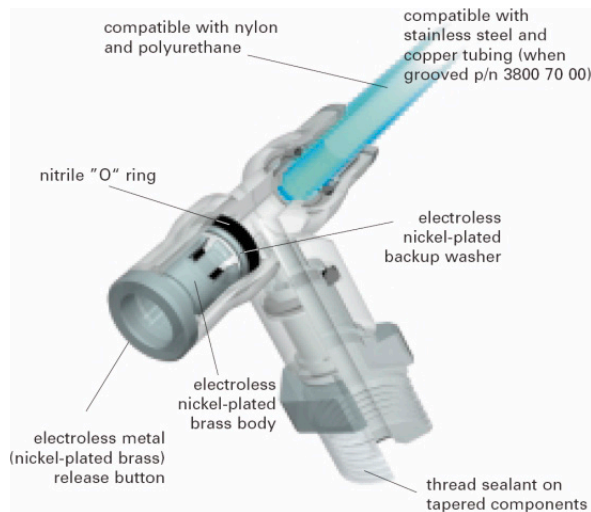
Push-to-connect fittings can be used in temperatures from 5°F to 180°F (-15°C to 82°C) with working pressures up to 290 PSI.

Why use Nickel-Plated Brass Push-To-Connect Fittings?

Nickel-plated brass push-to-connect fittings have been developed to provide pneumatic connections in aggressive applications and harsh environments.

These fittings are suitable for compressed air (lubricated or non-lubricated). They are designed to perform in particularly harsh (e.g. weld-splatter) or abusive (e.g. steel-toed boot) environments. These fittings are compatible with polyurethane and nylon tubing. Metal tubing may be used with specific preparations.

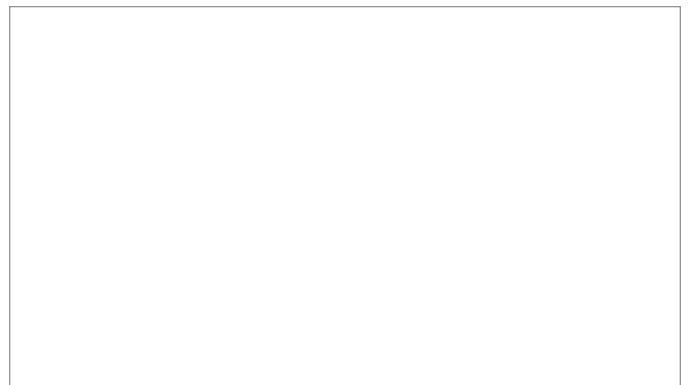
Features/Benefits



- **Full Flow Design** – No flow restrictions by assembled parts
- **Automatic Sealing** – The 'D' seal provides a positive seal on the O.D. of the tubing in static and dynamic positions
- **Internal Hex** – Allows ease of assembly in tight places
- **Sealed Threads** – Pre-applied thread sealant for tapered thread fittings, and a captive o-ring seal for parallel threads
- **Reusable**
- **Compact and Appealing** – Optimized dimensions satisfy the ergonomics and aesthetics of pneumatic installations
- **Positionable at Base** – Eases assembly and eliminates over/under torquing of fittings
- **Instant Assembly** – One-piece assembly – no tools needed
- **Mechanical Coating** – Plated by a mechanical process which provides a heavy coating – other plated fittings are electro-plated to a minimal thickness which offers little protection

Applications

- Valves
- Motors
- Grippers
- CNC equipment
- Cylinders
- Manifolds
- FRLs (filters, regulators, lubricators)
- Robotics



Specifications


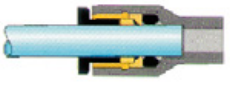


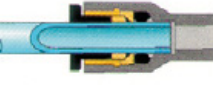

- Suitable media:** Compressed air
- Working pressure:** 290 PSI (2 MPa) max.
- Working temperature:** 5°F to 180°F (-15°C to +82°C)
- Construction Materials:** Body: Nickel-plated brass
 O-ring seal: Nitrile
 Backup washer: Nickel-plated brass
 Base: Nickel-plated brass with thread sealant on tapered threads

Installation Recommendations/ Instructions

Recommended Installation Torque

10-32 UNF	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT
13 lb.-in.	70 lb.-in.	100 lb.-in.	250 lb.-in.	308 lb.-in.

Industrial Push-to-Connect Fittings Quick Assembly

Connection	Disconnection
<p>1 Achieve a square cut edge with a tube cutter.</p> 	<p>1 Make sure there is no air flow.</p> 
<p>2 Simply push the tubing until it can go no further. Holding and sealing is accomplished instantaneously.</p> 	<p>2 Depress the manual push button, then pull the tube out.</p> 
<p>3 Pull on the tubing to verify gripping action.</p> 	<p>3 Keep Push Button Depressed, then pull the tube out.</p> 

Industrial Push-to-Connect Fittings Quick List

Do's	Don'ts
<p>1 Tighten by hand. Make final adjustment with wrench at the hex.</p> 	<p>1 Avoid using wrench on push-to-connect end.</p> 
<p>2 Achieve a square cut and clean edge.</p> 	<p>2 Avoid drastic angle cutting which can lead to an improper seal.</p> 
<p>3 Use Lawson Tube Cutter (p/n 87666)</p> 	<p>3 Avoid using a knife or a dull tool to cut the tubing. Avoid burrs, dirt, and anything that can hinder full flow.</p> 
<p>4 Allow adequate bend radius of tube.</p> 	<p>4 Avoid kinking the tubing and side load against the collet or gripping ring which can cause leaks.</p> 
<p>5 Simply push the tubing until it can go no further. Holding and sealing is accomplished instantaneously.</p> 	<p>5 Avoid contaminating substances in fittings and cartridges.</p> 