



Warning: Be aware of the pressure levels of your system. Connecting or disconnecting fittings while the system is pressurized can be very dangerous.



Push-in Fittings Installation Procedure

A. Installation of Pipe Fittings:

- Tighten fitting by hand, then turn approximately 2-3 turns with a wrench until reaching the desired torque. If the fitting is not pre-coated with sealant, or has been used and the sealant is not in good condition, apply Teflon sealant tape to the threads.

B. Installation of Tubing into Fitting:

- Slowly push a clean and perpendicularly cut tube into the fitting until it comes to a dead stop.
- Pull the tubing back gently until the grip ring or collet of the fitting grips onto the tubing and provides a good seal.
- Use Polyethylene, Polypropylene, Polyurethane or Nylon tubing designed for instant fittings.
- Hard metal tubing can be used for all metal Stainless Steel and all Brass fittings if the tubing is pre-grooved.

C. Removal of Tubing from Fitting:

- Push in evenly on the two long oval sides of the Release Button.
- Pull out the tube while depressing the Release Button.
- To reuse tubing, cut off the lodged portion of the previously used tubing in an even and perpendicular fashion.

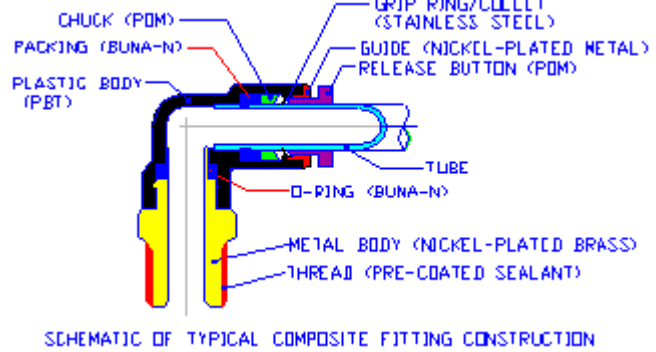
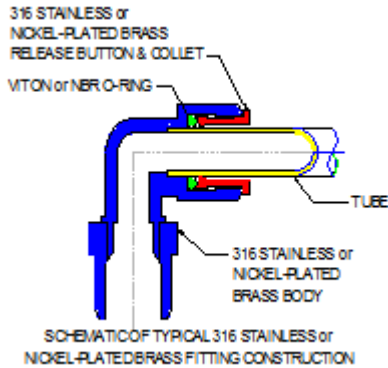
Recommendation of Torque for Tightening Fittings

Fitting Thread Size	Torque [lb-ft]	Torque [kgf/cm]
10-32, M5-M6	1.0-1.5	14-21
NPT 1/8, R 1/8	5.0-6.5	70-90
NPT 1/4, R 1/4	8.5-10.0	120-140
NPT 3/8, R 3/8	16.0-17.5	220-240
NPT 1/2, R 1/2	20.0-21.5	280-300

Recommended Tubing Material

Tubing Material	Specified Size	Hardness (Durometer)
Polyurethane	± 0.006" (± 0.15mm)	Shore A 85 or Higher
Polyethylene	± 0.004" (± 0.1mm)	Shore D 44 or Higher
Polypropylene	± 0.004" (± 0.1mm)	Shore D 44 or Higher
Nylon	± 0.004" (± 0.1mm)	Shore D 44 or Higher
Pre-grooved Metal Tubing	± 0.004" (± 0.1mm)	

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Specifications & Typical Materials of Construction

Specifications	Composite Push-In Air Fittings		Stainless Steel Fittings	Nickel-Plated Brass Fittings
	Standard (Purple Button)	K Series (Black Button)		
Maximum Operating Pressure	150psi @ 72°F	180psi @ 72°F	250psi @ 72°F	250psi @ 72°F
Vacuum	0-29.5 inHg (750 mmHg)		0-30 inHg (760 mmHg)	0-30 inHg (760 mmHg)
Operating Temperature	32-140°F (0-60°C)		5-230°F (-15 to 110°C)	5-230°F (-15 to 110°C)
Recommended Tubing Material	Polyurethane, Nylon, Polyethylene, Polypropylene		Polyurethane, Nylon, Polyethylene, Polypropylene, Hard Metal Tubing (must be pre-grooved)	
Metal Body	Brass, Nickel-Plated		316 Stainless Steel	Nickel-Plated Brass
Plastic Body	PBT (Polybutylene terephthalate)		None	None
Release Button	POM (Poly oxy methylene copolymer)		316 Stainless Steel	Nickel-Plated Brass
Grip Ring of Collet	300 Series Stainless Steel Grip Ring		316 Stainless Steel Collet	Nickel-Plated Brass Collet
O-Ring	NBR (Buna-N)		Viton	NBR (Buna-N)
Thread Sealant	Teflon		None	Teflon
Service	AIR ONLY		Air, Liquid	Air, Liquid