

Composite Push-In Fittings Union Elbow Series 7550

Tube Diameter OD : 4, 6, 8, 10, 12, 16 mm

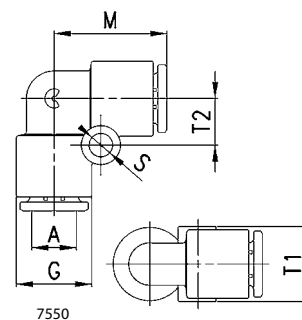
PUSH-IN FITTINGS

| METRIC Tube Fittings | | | | | | | |
|----------------------|----|------|------|---|------|-----|------------|
| DIMENSIONS (in mm) | | | | | | | |
| Model | A | G | M | S | T1 | T2 | Weight (g) |
| 7550 4 | 4 | 9.4 | 16.5 | 4 | 9.2 | 6.5 | 4 |
| 7550 6 | 6 | 11.6 | 18.5 | 4 | 11.4 | 7.5 | 6 |
| 7550 8 | 8 | 13.9 | 20.5 | 4 | 13.7 | 8.5 | 9 |
| 7550 10 | 10 | 16.1 | 24 | 4 | 15.8 | 8 | 12 |
| 7550 12 | 12 | 20.2 | 28 | 4 | 9 | 9.6 | 20 |
| 7550 16 | 16 | 27 | 33.5 | - | - | - | 42 * |

* = model without mounting holes



7550



7550

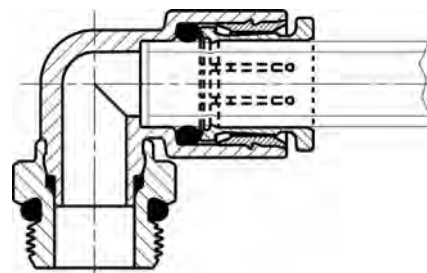
Series 7000 push-in composite fittings are compact and lightweight. They offer easy maintenance of the collet and internal o-ring seal. All materials can be easily recycled.

The nickel-plated brass collect maintains the same technical characteristics as the other nickel-plated brass fittings. It provides a uniform grip around the entire surface of the plastic tube. This ensures high reliability and long service life, especially after several connections and disconnections of the tubing.

GENERAL DATA

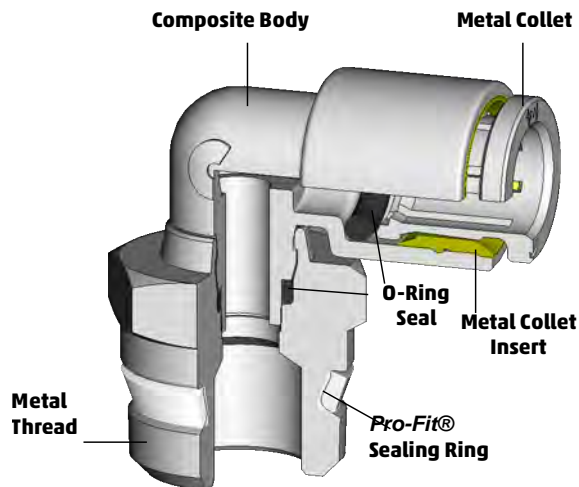
| | |
|--------------------|---|
| Material | body: technopolymer (glass-reinforced Nylon 66 resin); insert: brass, collet: nickel-plated brass; seals: NBR |
| Threads | 1/8", 1/4", 3/8", 1/2" NPTF with Pro-Fit® (reusable PTFE/Teflon thread seal) GAS cylindrical ISO-228 (BSP) |
| Operating pressure | min. -0.9 bar, max. 16 bar, (28" Hg vacuum to 250 PSI) (See data for tubing used) |
| Tube to connect | Nylon 6, 11 or 12, polyethylene, PU (polyurethane recommended 90A durometer and above) Hytrel Polyester |
| Diameters | Tube Diameter OD: 5/32", 1/4", 5/16", 3/8", 1/2", 4 - 6 - 8 - 10 - 12 - 16 mm |
| Fluid | Compressed air |
| Temperature | -20° - 60°C (-4°F to 140°F) |

Fitting with connecting tube



Composite Fittings: Threads with Pro-Fit®, Sprint® or Spot-Face O-Ring Seal

The technical solution: Camozzi has maintained the technically advanced and world-renowned collet solution by further optimizing the dimensions and the design from Series 6000 Fittings and Flow Control Valves.



Features

Collet

- Nickel-Plated, All-metal Collet and Release ring
- Brass insert for collet support and tube grip strength
- Collet design offers greater grip strength under higher pressure or tubing tension
- Collet release mechanism based on relaxed slope of grip teeth, as opposed to disengaging "bite-rings" from partially cut tubes
- Removable Collet and tube o-rings

Body

- Glass-fiber reinforced, thermoplastic compact injection-molded body
- All-Metal, Nickel-Plated Threads
- Standard Buna-N or Specialized O-ring choices for High-Temp, Low-Temp, Special Fluids, Food-Grade compatibility
- Broad Range of shapes and configurations
- Crimp design on Swivels maintains Full ID Flow path
- Swivels offer Mechanical crimping lock based on brass design

Pro-Fit® and Sprint® Thread Design

- Multiple Thread sealant systems: **Pro-Fit®**/NPTF or BSP/**Sprint®**
- Full ID Flow for Swivels with high relief on larger sizes
- Eliminates exposed threads and fits into tight spaces, making them ideal for food processing and hygienic applications.
- Eliminates the need for Teflon® tape or pipe dope. Shorter thread length requires fewer turns to tighten.
- The captured Teflon® sealing ring provides a dependable and reusable shoulder seal without the risk of thread sealant contamination.

Durable Metal Collet: Nickel-Plated brass collet provides superior resistance to shock, wear and fatigue compared to inferior plastic collets. Proven metal design offers a higher holding force with easier tube release that won't scratch tubing like plastic "bite-ring" designs. Tube OD size is stamped on collet face.

Composite Body: Glass-fiber reinforced, thermoplastic material is incredibly strong and lightweight with improved resistance to UV exposure, abrasion and other chemical substances. Molded composite material allows for integral mounting holes and a broader range of complex shapes.

Pro-Fit® Thread Seal-Ring Design: Reusable Teflon seal reduces assembly time by up to 45% and eliminates exposed threads, making it ideal for food processing, robotics, packaging & manifold assemblies. Eliminates risk of pneumatic system contamination from thread sealants' residue.

Spot-Face O-Ring Thread Seal Design: Reusable Buna-N seal reduces assembly time by up to 45% and eliminates exposed threads, making it ideal for food processing, robotics, packaging & manifold assemblies. Eliminates risk of pneumatic system contamination from sealants' residue.

Benefits

Collet

- Won't break like plastic release rings, More Durable design
- Brass insert maintains collet stability, tube grip strength and consistent tube-release performance
- Higher holding force, with easier release
- Won't scratch tubes like "bite-ring" designs
- Less chance of micro-leakage and bubble-leaks over time due to damaged tubing
- Higher pressures actually offer greater grip-strength with high-pressure Nylon tubing
- OD Tube Size stamped on Collet face

Body

- Thermoplastic Nylon composite more resistant to UV exposure
- Better resistance to stress-cracking, abrasion, solvents, detergents & hydrocarbons
- 15% Reduction in overall Body size, (24% in Assembly height/ 8% in Tube Radius), compared to recently reduced-size Brass line

Thread Design

- Reduced assembly time without taping of fitting threads
- Re-usable seal design, with no exposed threads
- Simplified manifold circuits with broader variety of fitting combinations and shapes to select
- Lighter weight for End-of-Arm tooling & Robotic handling
- Compact design reduces overall dimensions for valve assemblies, packaging applications and control cabinets