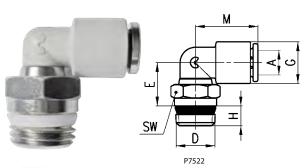
## Composite Push-In Fittings Pro-Fit Swivel Elbow Series P7524 & 7522

Tube Diameter OD: 5/32", 1/4", 5/16", 3/8"

Thread Type: 10-32 UNF

NPTF 1/8", 1/4", 3/8", 1/2" with Pro-Fit® reusable PTFE seal

INCH Tube Fittings											
DIMENSIONS (in inches)											
Model	A	D	E	G	Н	М	SW				
	OD	UNF									
7522 53-32	5/32	10-32	0.335	0.354	0.138	0.669	0.354				
7522 04-32	1/4	10-32	0.374	0.453	0.138	0.728	0.354				
	OD	NPTF									
P7524 53-02	5/32	1/8	0.433	0.354	0.197	0.669	0.472				
P7524 53-04	5/32	1/4	0.453	0.354	0.256	0.669	0.551				
P7524 04-02	1/4	1/8	0.472	0.453	0.197	0.728	0.472				
P7524 04-04	1/4	1/4	0.492	0.453	0.256	0.728	0.551				
P7524 04-06	1/4	3/8	0.512	0.453	0.295	0.728	0.748				
P7524 05-02	5/16	1/8	0.531	0.531	0.197	0.807	0.472				
P7524 05-04	5/16	1/4	0.531	0.531	0.256	0.807	0.551				
P7524 06-02	3/8	1/8	0.551	0.630	0.197	0.945	0.551				
P7524 06-04	3/8	1/4	0.591	0.630	0.256	0.945	0.551				
P7524 06-06	3/8	3/8	0.591	0.630	0.295	0.945	0.748				
P7524 06-08	3/8	1/2	0.610	0.630	0.335	0.945	0.866				
P7524 08-04	1/2	1/4	0.630	0.768	0.256	1.102	0.591				
P7524 08-06	1/2	3/8	0.650	0.768	0.295	1.102	0.748				
P7524 08-08	1/2	1/2	0.669	0.768	0.335	1.102	0.866				



P7522

• 10-32 UNF thread seal with O-Ring

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 maitains the same technical characteristics as the other nickelplated brass fittings. It provides a uniform grip around the entire surface of the plastic tube. This ensures high reliability and long service life, espcially after several connections and disconnections of the tubing.

Pro-Fit® Torque S <sub>l</sub>	pecifications
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	Minim	Minimum Torque		num Torque
Thread Size	N-m	lb-ft	N-m	lb-ft
M5 [10-32 UNF]	0.200	0.148	2.000	1.475
1/8 NPTF or BSP	2.000	1.475	10.000	7.376
1/4 NPTF or BSP	4.000	2.950	20.000	14.751
3/8 NPTF or BSP	5.000	3.688	20.000	14.751
1/2 NPTF or BSP	8.000	5.900	40.000	29.502

Fitting with connecting tube

#### **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)

min. -0.9 bar, max. 16 bar, (28" Hg vacuum to 250 PSI) (See data for tubing used) Operating pressure Nylon 6, 11 or 12, polyethylene, PU (polyurethane recommended 90A Tube to connect

durometer and above) Hytrel Polyester

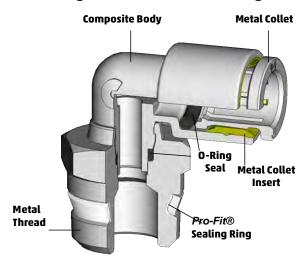
Diameters Tube Diameter OD: 5/32", 1/4", 5/16", 3/8", 1/2", 4 - 6 - 8 - 10 - 12 - 16 mm

Compressed air

Temperature -20° - 60°C (-4°F to 140°F)

# 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 highpressure 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