Nickel-Plated Brass Push-In Fittings - NPTF/INCH

Thread Connections 10-32 UNF, 1/8", 1/4", 3/8", 1/2" NPTF
Reusable thread seal, PTFE seal ring (Teflon®) - Pro-Fit®

Standard NPTF - Camozzi’s all metal fittings are 100% electroless nickel-plated brass. Full ID tube flow is always maintained for maximum Cv ratings and quick cycle times. “Push-in” and lock the tube quickly and effortlessly.

Pro-Fit® thread design allows assembly with all female thread NPT forms. The new model is interchangeable with tapered thread fittings. The special sealing method has a locking effect similar to that of the taper model. Since the sealing ring is made of PTFE (Teflon®), it is not subject to wear and can be used repeatedly. Thread tape and thread sealants of other materials can be replaced, eliminating the need for full-length NPTF thread, thus reducing the fitting size. Sealing is achieved on inclined, concave and convex surfaces.

Fittings also available in coated thread sealant, Loctite Vibra-Seal 516

Connection and disconnection of the tube can be repeated several times and can be performed using one hand and without the use of tools.

### Technical Specifications

<table>
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<tr>
<th>Material</th>
<th>Brass OT58 UNI 5705, nickel plated, PTFE seal ring (Teflon®), Vibra-Seal 516 (Loctite)</th>
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<td>*O-ring</td>
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<td>Threads</td>
<td>10-32 UNF, 1/8&quot;, 1/4&quot;, 3/8&quot;, 1/2&quot; NPTF</td>
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<td>Operating pressure</td>
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<td>Tube to connect</td>
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<td>Fluid</td>
<td>Compressed air</td>
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<td>Operating temperature</td>
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Nickel-Plated Brass Fittings: 
**Pro-Fit®, Standard NPTF & Coated Threads**

**FEATURES**

**Collet**
- Nickel-Plated, All-metal Collet and Release ring
- 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**
- All-Metal, Nickel-Plated body and Threads
- Compact Brass bodies from Brass forgings
- 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 cold-forged brass and not spin-swaged or “thinned” brass
- Full ID Flow for Swivels and Straights, with high relief on larger sizes
- Internal Hex on Straight fittings

**Pro-Fit® Thread Design**
- Low Profile Fit
- Fast Installation
- Perfect Reusable Seal

**BENEFITS**

**Collet**
- Won’t break like plastic release rings and bodies; More Durable design
- 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

**Body**
- Resistant to UV exposure
- Better resistance to stress-cracking, abrasion, solvents, detergents, hydrocarbons and other fluid media
- FDA/NSF approved materials, (Including customized Nickel-Plating and o-ring options)
- 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
- 12% Reduction in overall Body size, compared to previous Brass line
- Full ID Flow and high relief undercuts offers greatest flow without restriction to circuit design flow calculations

**Pro-Fit® Thread Design**
- 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.
### Fittings Mod. P6510...

**Pro-Fit**® Male Connector

**DIMENSIONS**

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Fittings Mod. 6512 and Mod. 6510...

**Male Connector**

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### Fittings Mod. C6510...

**Male Connector with Coated Threads**

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**Pro-Fit® Male Elbow Swivel**

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The company reserves the right to vary models and dimensions without notice. These products are designed for industrial applications and are not suitable for sale to the general public.
# Fitting Mod. 6522 and Mod. 6520...

Male Elbow Swivel

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## Fittings Mod. C6520...

**Male Elbow Swivel with Coated Threads**

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**Pro-Fit® Male Branch Tee Swivel**

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**Male Branch Tee Swivel**

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"T" Male Branch Tee with Coated Threads

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**Fittings Mod. P6440...**

*Pro-Fit®* Male Run Tee Swivel

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Fittings Mod. P6450...

**Pro-Fit® Male “Y” Swivel**

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Fittings Mod. 6451 and Mod. 6450

Male “Y” Swivel

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*No swivel male

Fittings Mod. C6450

Male “Y” Swivel with Coated Threads

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The company reserves the right to vary models and dimensions without notice. These products are designed for industrial applications and are not suitable for sale to the general public.
**Fittings Mod. P6525...**

*Pro-Fit*® Fluid Swivel

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**Fittings Mod. 6500...**

Male Elbow Non-Swivel

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**Fittings Mod. C6500...**

Male Elbow with Coated Threads Non-Swivel

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### Fittings Mod. 6463...

**Female Connector**

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### Fittings Mod. 6640...

**Union Tee**

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### Fittings Mod. 6550...

**Union Elbow**

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Fittings Mod. 6555...

Plug-In Elbow

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Fittings Mod. 6560...

Union "Y"

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Fittings Mod. 6590...

Bulkhead Union

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</table>

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Fittings Mod. 6700...

Cartridge

**Insertion Force - KG**

![Diagram of cartridge fitting](image)

**Gland Width “S” Tolerances**

<table>
<thead>
<tr>
<th>Mod.</th>
<th>OD</th>
<th>A</th>
<th>G</th>
<th>L</th>
<th>S</th>
<th>H</th>
<th>B</th>
<th>Kg. Min</th>
<th>Kg. Max</th>
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<th>H2</th>
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<td>439</td>
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<td>0.346</td>
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<td>0.347</td>
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**Dimension ‘H2’** for the press-tool should be noted and followed, which creates a specific mechanical stop. This serves the purpose of avoiding, in case of any excessive insertion force used, damage to the collet body, shape or design. Without which, could lead to some damage or distortion of the collet bite/release ring.

**All Dimensions in millimeters. Surface Finish of the gland seat required: Ra < 0.8 microns.**

**Final Fit and Finish requires that the top most ridge/bite-ring of the cartridge body be at least 1 mm below the surface of the gland chamfer.**

---

Fittings Mod. 6800...

Reducer

**DIMENSIONS**

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<thead>
<tr>
<th>Mod.</th>
<th>OD A</th>
<th>G</th>
<th>C</th>
<th>F</th>
<th>L</th>
<th>T</th>
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<td>6800 02-04</td>
<td>1/8</td>
<td>1/4</td>
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<td>0.354</td>
<td>1.161</td>
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<td>1/4</td>
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<td>0.354</td>
<td>1.161</td>
<td>0.709</td>
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Fittings Mod. 6810...
Stem Adapter

DIMENSIONS

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<th>H</th>
<th>T</th>
<th>L</th>
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Fittings Mod. 6900...
Plug (Nylon™)

DIMENSIONS

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Fittings Mod. 6950...
Double Union

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Fittings Mod. 1631-01...
Stud Manifold

DIMENSIONS

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*NPTF 2520 Adapters included

Fittings Mod. 1631-02...
Stud Manifold

DIMENSIONS

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*NPTF 2520 Adapters included

Stem Adapter Plug (Nylon™) Double Union

DIMENSIONS

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### Fittings Mod. 1631-03...

**Stud Manifolds**

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*NPTF 2520 Adapters included

### Fittings Mod. 6610...

**Banjo**

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<th>F</th>
<th>M</th>
<th>O</th>
<th>V</th>
<th>W</th>
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### Fittings Mod. 6620...

**Double Banjo**

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<th>L</th>
<th>O</th>
<th>V</th>
<th>W</th>
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Fittings Mod. 2023...

Female Banjo

**DIMENSIONS**

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<th>O (mm)</th>
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<td>1.102</td>
<td>.827</td>
</tr>
</tbody>
</table>

Example assembly of stud manifold with various banjos

"Hybrid" Torque Specifications - (Pro-Fit - NPTF Fittings assembled into female BSP ports)

**Caution**: Mating material and female ports may be too soft for high torque values. Check material hardness to avoid stripping, galling or cross-threading. This table is ONLY a guide for “hybrid” situations that require interchanging thread types to accommodate tubing requirements.

<table>
<thead>
<tr>
<th>Thread Size</th>
<th>Minimum Torque Value</th>
<th>Maximum Torque Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nm</td>
<td>Ft-Lbs</td>
</tr>
<tr>
<td></td>
<td>Nm</td>
<td>Ft-Lbs</td>
</tr>
<tr>
<td>Pro-Fit*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/8&quot; *</td>
<td>1.0</td>
<td>0.7</td>
</tr>
<tr>
<td>1/4&quot; *</td>
<td>4.0</td>
<td>2.9</td>
</tr>
<tr>
<td>3/8&quot; *</td>
<td>5.0</td>
<td>3.7</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>27.0</td>
<td>20.0</td>
</tr>
</tbody>
</table>

* - NOTE: Value is the same as standard value for equal thread types, (NPTF to NPTF)