

# Insertion type (brass)

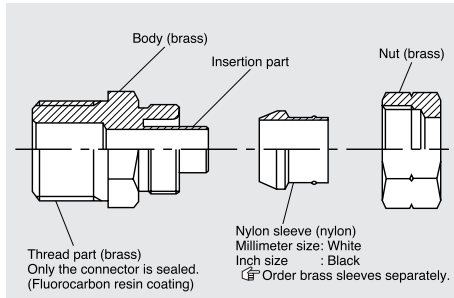
## Screw-in type for multi-purpose piping

### Features

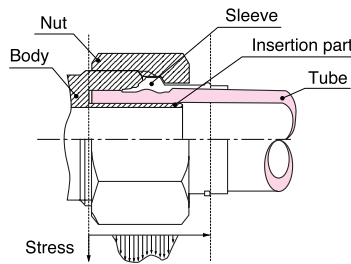
- **Screw-in type**  
Consisting of three parts: fitting body, nut and sleeve
- **High sealing performance**  
The insertion part is integrated with a fitting body with high negative-pressure performance.
- **Only the connector is sealed.**  
Sealing tape is not required.
- **JIS B 8381-1995 (fittings for pneumatic flexible pipes) compliant**



### Cross-sectional structure diagram



### Sealing mechanism



### Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	Nylon sleeve: -40°C~+80°C
	Brass sleeve: -40°C~+100°C
Water	Nylon sleeve: 0°C~+70°C
	Brass sleeve: 0°C~+100°C
General operating oil	Nylon sleeve: -40°C~+80°C
	Brass sleeve: -40°C~+100°C

Contact us for various chemical liquids.  
See "Combination List of Tube and Fitting" on page 8.

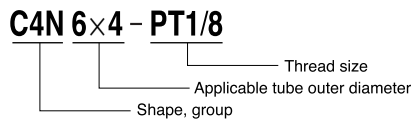
### Pressure condition

**Maximum working pressure: 5.0MPa**  
**Negative pressure performance: -101.294kPa**

### Handling instructions

- ⚠ **Caution** When the working conditions of tubes and fittings differ, use them under the lower specified conditions.
  - ⚠ **Caution** For use at a high temperature within the working temperature range, tighten nut periodically. If the nut cannot be tightened further, cut the tube end and insert the tube again with a new sleeve.
  - ⚠ **Caution** When water is used as the operating fluid, do not allow it to freeze.
  - ⚠ **Caution** Do not bend the pipe sharply near the tube insertion port (sleeve end) of the fitting. Keep the tube straight for twice as long as the tube diameter from the insertion port.
  - ⚠ **Caution** The brass sleeve cannot be used for a fluorocarbon resin TP tube. Choose the nylon sleeve instead.
  - ⚠ **Caution** The outer and the inner diameters of the fitting have to be the same as those of the tube used.
- See page 34 for the common handling instructions for tube fittings.

### Product number example







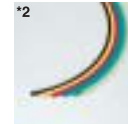
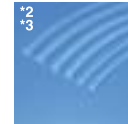



### Distinction of millimeter/inch sizes



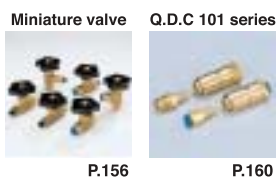
The inch size type has a black sleeve.  
The millimeter size type has a cut at the hexagonal nut.

### Applicable tube

Polyurethane tube	Nylon tube	Flexible fluorocarbon resin bilayer tube	Polybutene tube	Flame-resistant tube	Antistatic tube	Polyolefine resin tube	Fluorocarbon resin tube	Polyurethane processed tube
 U2***P.12 U1***P.13 U5***P.14	 N2***P.15 N5***P.16 N1***P.17	 TES***P.18	 PB***P.25	 FS***P.20 FW***P.21 FWU***P.22	 UE***P.23	 PL***P.26 PN***P.27	 TA***P.28 TP***P.29	 UC***P.30 USC***P.30 UMC***P.30 UML***P.31

(\*1) When QuickSeal series fittings are used on a spatter-resistant line, replace the nylon sleeve with the brass one.  
 (\*2) Combinatory use of PL, PN, TA or TP tube and QuickSeal series of insertion type (brass) mixes general and clean type performances.  
 When using them in a clean environment, pay attention to the clean level that could be lowered.  
 (\*3) The brass sleeve cannot be used for a fluorocarbon resin TP tube. Choose the nylon sleeve instead.

### Allied products and product introduction



### Reference

- Instruction manual.....P.180
- Chemical resistance specification table.....P.207
- Effective cross-sectional area .....P.176
- Negative-pressure performance list.....P.177