

PushOne® A Series

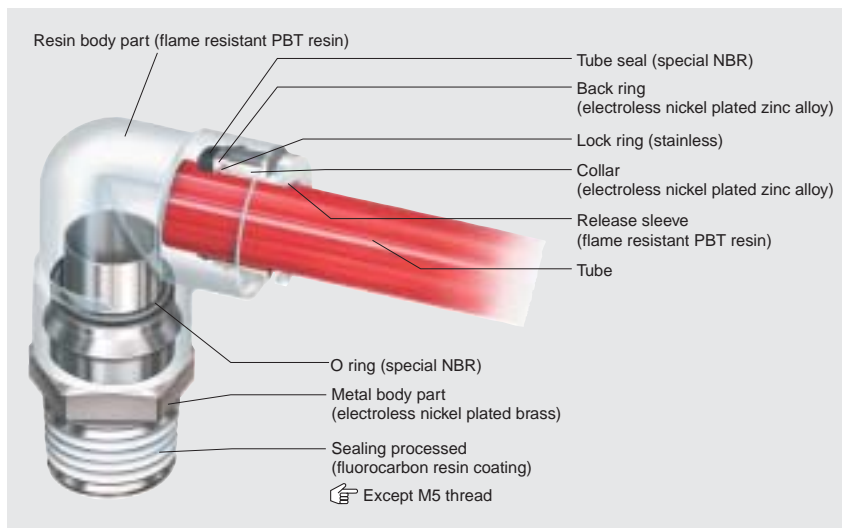
PushOne® fittings for general air pressure (flame resistant)

Features

- PushOne® connection of tube
The tubes can be connected without using a jig or tools
- Electroless nickel plated
Preventing degradation of surface and dissolution of copper ions in fluid
- White body illuminative to working environment
- Flame-resistant resin (compliant V-0 of UL94 standard)
Made of flame-resistant resin PBT. High self-extinction performance with compliant V-0 of UL94 standard. Usable under an environment with sputters.
- Sealing-processed R thread.
Sealing tape is not required.



Cross-sectional structure diagram



Operating fluid, working temperature range

| Operating fluid | Working temperature range |
|-----------------|---------------------------|
| Air | -20°C~+80°C |
| Water | 0°C~+40°C |

See "Combination List of Tube and Fitting" on page 8.

Pressure condition

Maximum working pressure: 1.0MPa
Negative pressure performance: -99.975kPa

Handling instructions

- ⚠ **Caution** When the working conditions of tubes and fittings differ, use them under the lower specified conditions.
- ⚠ **Caution** When water is used as the operating fluid, confirm that there is no water leakage damage to equipment and instruments due to construction failure.
- ⚠ **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 of the fitting. Keep the tube straight for twice as long as the tube diameter from the insertion port.






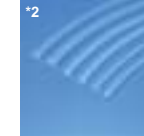
See page 34 for the common handling instructions for tube fittings.

Product number example

AL 6 - R1/8

Shape Applicable tube outer diameter Thread size

Applicable tube

| Polyurethane tube | Nylon tube | Flame-resistant tube | Antistatic tube | Polyolefine resin tube | Fluorocarbon resin tube |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| U2...P.12 U1...P.13 U5...P.14 | N2...P.15 N5...P.16 N1...P.17 | FS...P.20 FW...P.21 FWU...P.22 | UE...P.23 | PL...P.26 PN...P.27 | TA...P.28 TP...P.29 |


(*1) When the PushOne A series is used with a UE tube, choose a metal body type including a connector and a hexagonal socket to maintain conductivity between the tube and the fittings.

(*2) Combinatory use of PL, PN, TA or TP tube and PushOne A series mixes general and clean type performances. When using them in a clean environment, pay attention to the clean level that could be lowered.

Reference

Instruction manualP.180
UL-94 standard flame testP.206
Effective cross-sectional areaP.178
Negative-pressure performance listP.179

Allied products and product introduction

| Speed controller | Ball valve | Miniature valve | Valve built-in connector | Q.D.C 101 series | Sputter cap |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| P.144 | P.151 | P.156 | P.159 | P.160 | P.169 |

Shape list

