

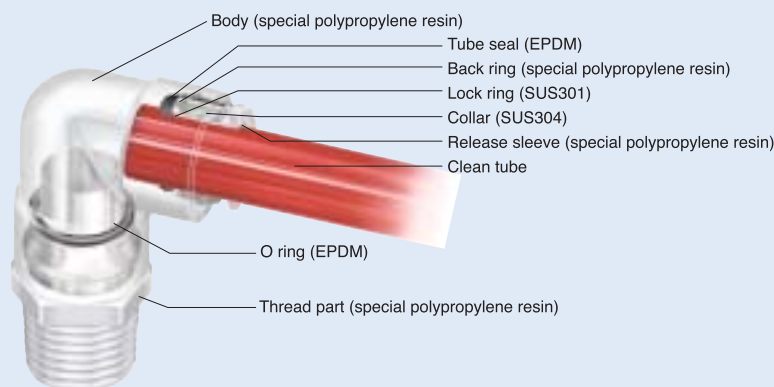
Chemifit® C1 Series

PushOne® fitting for clean air, pure water and chemical liquids

Features

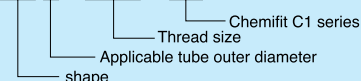
- **No-oil processed**
Assembled after cleaning each part in a clean room. No oil or fat is used in the sealing materials.
- **PushOne® connection of tube**
The tubes can be connected without using a jig or tools.
- **Nonmetal liquid-contact surface**
No contact of liquid and metal, preventing the metal ions from dissolving.
- **High dust-free, uncontaminated performance**
Made of special polypropylene resin.
- **Highly smooth inner surface**
Smooth inner surface due to ejection forming.
- **Double clean package**
Each fitting is packed in a clean room and put in a zipper sealed bag.
- **Easy directional setting of tube**
The body can rotate freely even after tightening up the thread part. Good for piping of Elbow and Tee.
- **Compliant with the MHLW Ministerial Notification No.201(2006), MHW Ministerial Notification No.370(1959), Japan**

Cross-sectional structure diagram



Product number example

EL 6 - R1/8 - C1



Distinction of millimeter/inch sizes

- The tube size is shown on the release sleeve.



Operating fluid, working temperature range

Operating fluid	Working temperature range
Air (clean air)	-20°C~+80°C
Water (pure water)	0°C~+80°C

☞ Contact us for various chemical liquids.

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

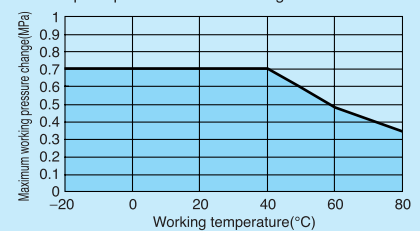
Pressure condition

Maximum working pressure: 0.7MPa(at20°C)

Negative pressure performance: -99.975kPa

Relation between the working temperature and the maximum working pressure

The maximum working pressure varies with the working temperature (environmental temperature). For use at an abnormal temperature, always check the maximum working pressure change in the graph below and keep the pressure within the range.

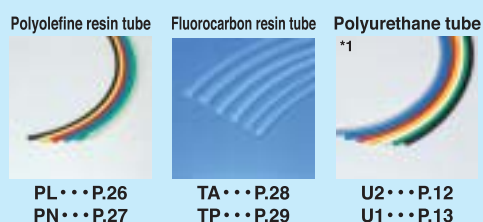


Handling instructions

- ⚠ **Caution** When the working conditions of tubes and fittings differ, use them under the lower specified conditions.
- ⚠ **Caution** Stress relaxation occurs more readily with resin thread than with metal thread. The relaxation is prominent at a high temperature. Tighten the thread periodically.
- ⚠ **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 (sleeve end) of the fitting. Keep the tube straight for twice as long as the tube diameter from the insertion port.

☞ See page34 for the common handling instructions for tube fittings.

Applicable tube



PL...P.26
PN...P.27

TA...P.28
TP...P.29

U2...P.12
U1...P.13

Allied products and product introduction



P.146

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Reference

Instruction manual.....P.182
Chemical resistance specification table.....P.207
Effective cross-sectional areaP.176
Negative-pressure performance list.....P.177

(*1) Combinatory use of U2 or U1 tube and Chemifit C1 series mixes general and clean type performances. When using them in a clean environment, pay attention to the clean level that could be lowered.