

Chemifit® C1S Series

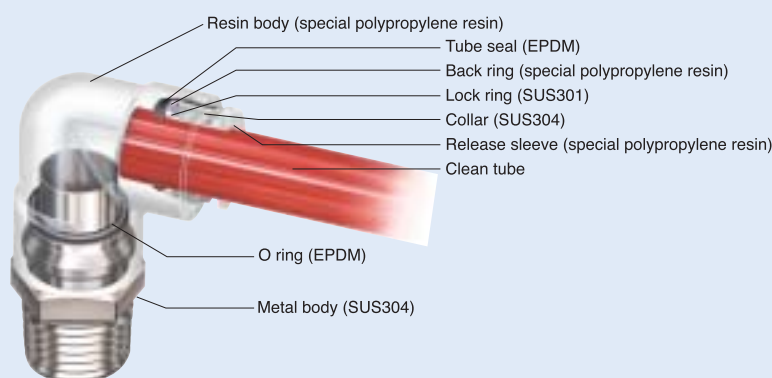
PushOne® fitting for clean air, pure water and chemical liquids

Features

- **No-oil processed**
Assembled after cleaning each part in a clean room. No oil or fat are used in the sealing materials.
- **PushOne® connection of tube**
The tubes can be connected without using a jig or tools.
- **SUS304 thread**
High thread strength
- **Double clean package**
Each fitting is packed in a clean room and put in a zipper sealed bag.
- **Easy directional setting of tube.**



Cross-sectional structure diagram



Product number example

EL 6 - R1/4 - C1S

Chemifit C1S series
Thread size
Applicable tube outer diameter
shape

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.

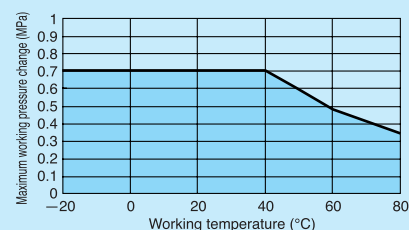
☞ See "Combination List of Tube and Fitting" on page 8.

Pressure condition

Maximum working pressure: 0.7MPa(at20°C)
Negative pressure performance: -99.975kPa

Relation between the working temperature and the maximum working pressure

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


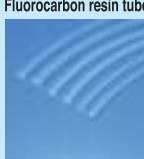
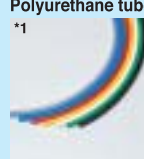


Handling instructions

- ⚠ **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, 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

Polyolefine resin tube	Fluorocarbon resin tube	Polyurethane tube
		
PL...P.26 PN...P.27	TA...P.28 TP...P.29	U2...P.12 U1...P.13

(*1) Combinatory use of U2 or U1 tube and Chemifit C1S series mixes general and clean type performances. When using them in a clean environment, pay attention to the clean level that could be lowered.

Allied products and product introduction

Chemifit C1 speed controller	Off tool
	
P.146	P.169

Reference

Instruction manual.....P.184
Chemical resistance specification table.....P.207
Effective cross-sectional area.....P.176
Negative-pressure performance list.....P.177