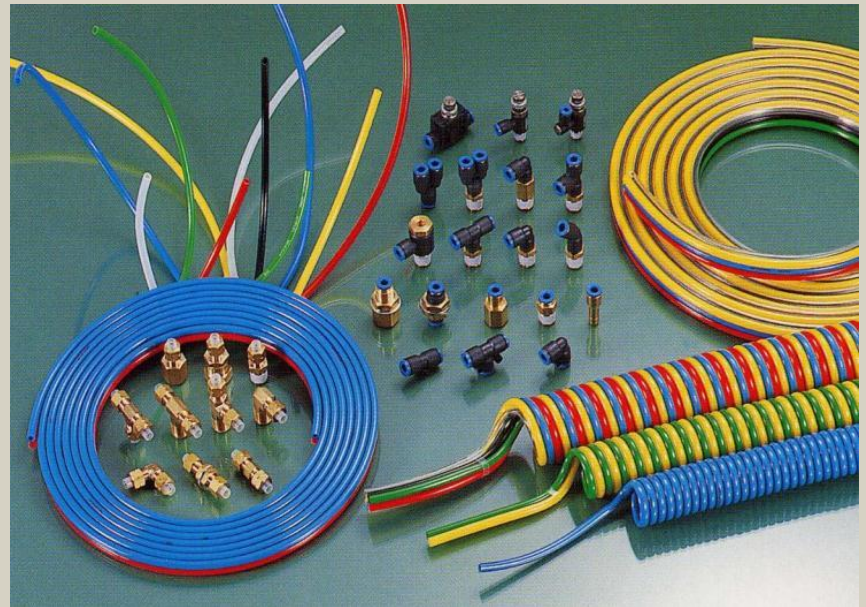


Tubing and fitting



Polyurethane tube

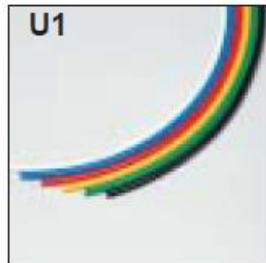


U2

For general air pressure

- Well balanced between flexibility and pressure-resistance performance

P.12

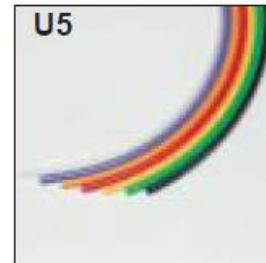


U1

For general air pressure

- Usable in higher air-pressure range than U2

P.13



U5

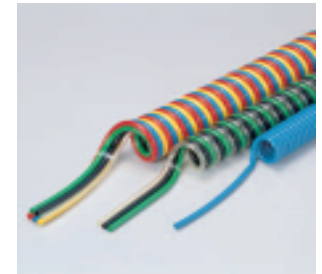
For general air pressure (Ultra flexible)

- High workability with small bending stress

P.14

Features

- Well balanced between flexibility and pressure-resistant performance, and high workability. Most suitable for general air pressure piping usage.
- Ether polyurethane resin is used to prevent degradation by water or mold under high temperature and high humidity.
- Coil processing and welding can be performed on request.



Creating soft tube that not using a additive. (Plasticizer)

It has a more soft segments than hard segments.

【Beneficial】

1. It does not contain plasticizer.
2. It is safety for using food machine, and sanitary environment.

Elastic tube

Tear strength is high.

Wear resistance.

Oil-Proof.

Weather resistance.

Ether Polyurethane - It is not easy to hydrolyzed.

【Defects】

Acid

Alkali

Hot temperature

Boiling water

Water vapor

It occurs crack on surface of tube

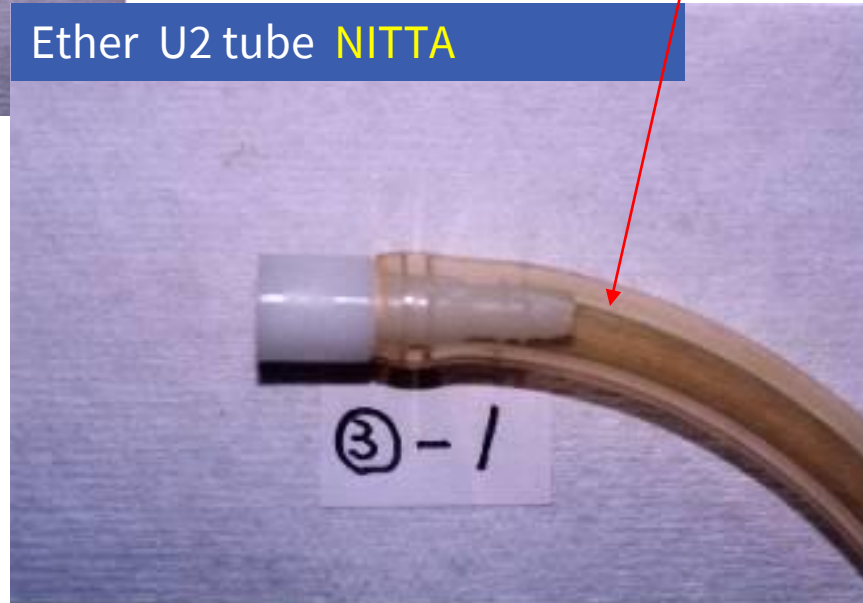
Ester Competitor



To deteriorate when the high temperature.

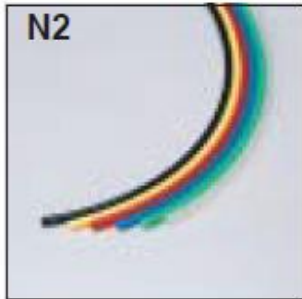
There is no change.

Ether U2 tube NITTA



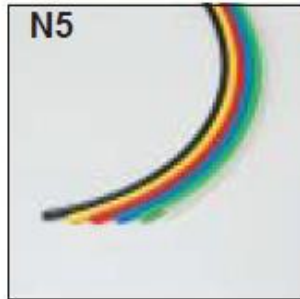
High abrasion resistance

Nylon tube



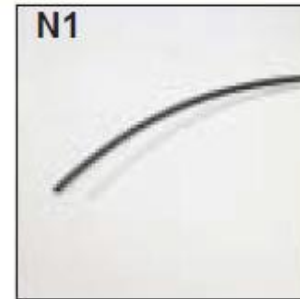
N2
For multi purpose piping
● High oil resistance and chemical resistance

P.15



N5
Soft nylon
● High workability with small bending stress

P.16



N1
Hard (unplasticized) nylon
● Unplasticized nylon

P.17

【Beneficial】

High oil and chemical resistance.

Highly toughened material.

Less dimensional change cause's water absorption.

Durability is higher than urethane.

【Defects】

Once it kinks, and it reduce the strength.

It contains plasticizer to inbreed out sometimes.

★ Necessary information to choose tubing

1. Size

O.D. x I.D. , Length

2. Type

Nylon, Urethane...

3. Fluid (chemical resistance)

water, hydraulic oil, air

4. Temperature

Working temperature

Environmental temperature

5. Pressure

Compare with the catalog

Relation between temperature and pressure

6. Situation of piping

Fixed or Movable

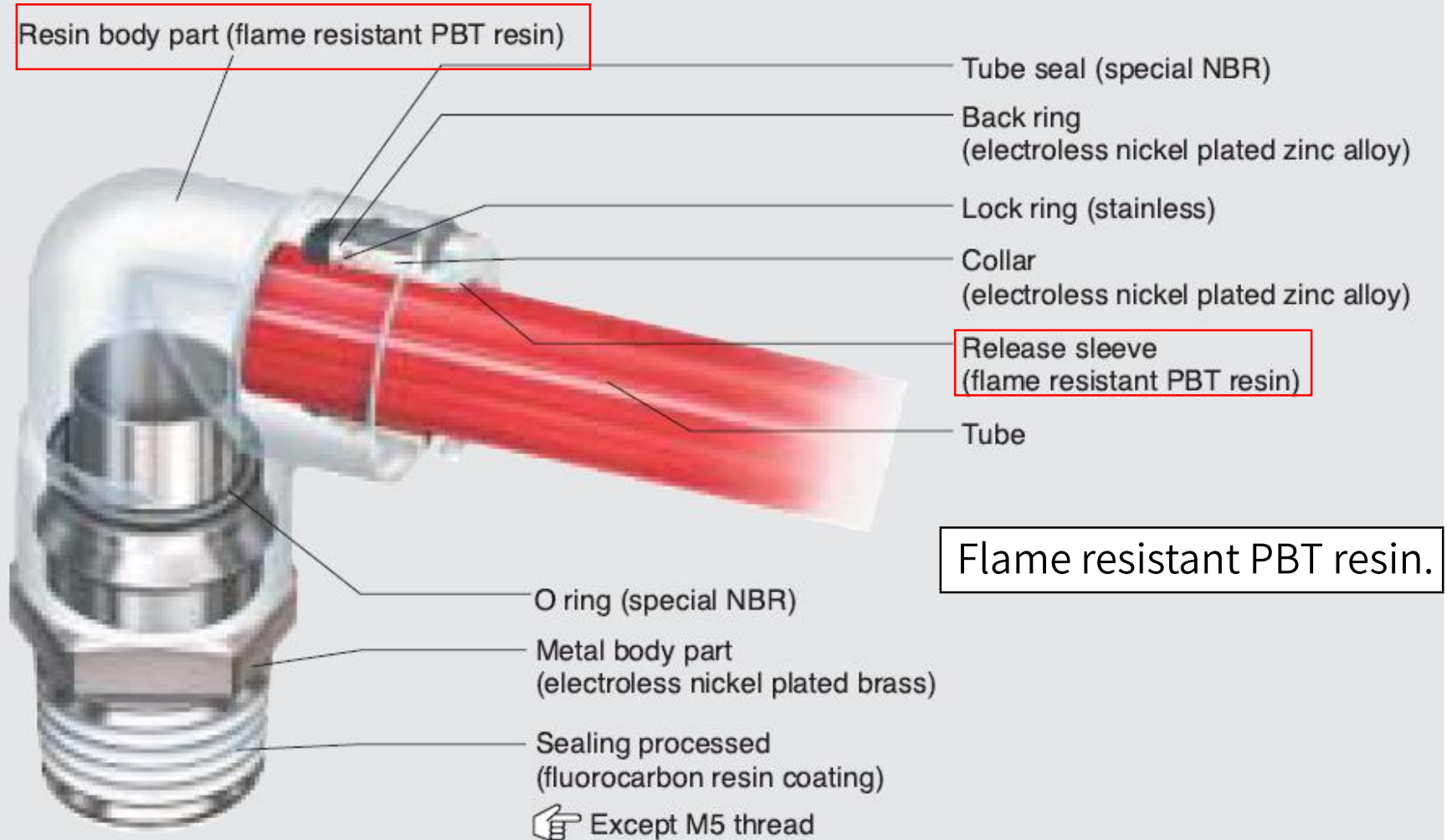
Inside or Outside

7. Others

Clean or not

..etc

Cross-sectional structure diagram



PushOne® A series



For general air pressure

- PushOne® connection
- High flame resistance (Compliant V-0 of UL94 standard)
- Electroless nickel plated

PushOne® E series



For general air pressure

- PushOne® connection
- High flame resistance (Compliant V-0 of UL94 standard)
- Electroless nickel plated



QuickSeal series

Insertion type (brass)



For multi-purpose piping

- Screw-in type
- High sealing performance
- Only connector is sealed.

P.76

Insertion type (stainless)



For multi-purpose piping

- Screw-in type
- High sealing performance
- Made of SUS304

P.88

Insertless type



For general air pressure

- Screw-in type
- For large flow volume

P.94

Chemifit® C1 series



For clean air, pure water, chemical liquid piping

- No-oil processed
- PushOne® connection
- Nonmetal liquid-contact surface
- High dust-free, uncontaminated performance
- Double clean package

Chemifit® C1S series

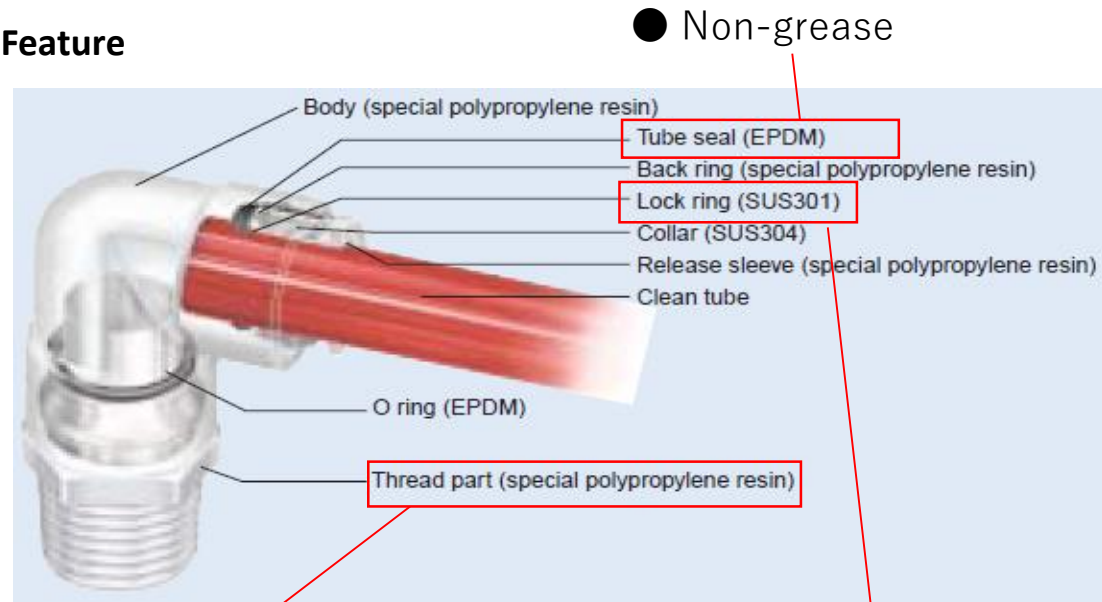


For clean air, pure water, chemical liquid piping

- No-oil processed
- PushOne® connection
- SUS304 screw
- Double clean package
- High dust-free, uncontaminated performance

Working fluid : Air (Clean air), Water (Pure water)

Feature



- Thread part of C1S fitting is made for SUS304

- quick mounting/dismounting operation

Comparing SUS fitting

Be effective to use Sodium Hydroxide

Light weight.

- Threaded fitting made polypropylene resin.
- No-oil processed.
- High dust-free, uncontaminated performance.

Target the food manufacturing application.



★ Necessary information to choose fitting

1. Tubing size (O.D.)

For Push One Series

2. Tubing size (O.D. x I.D.)

For Quick Seal Fittings

3. Fluid (Chemical Resistance)

Water, Oil, Air

※Steel (or Stemless) or Resin

4. Thread Size

Type of Thread (PT, R, M)
Size

5. Working Pressure

Compared with the
value of catalog

※When the working conditions of
tubing and fittings differ, use them
under the lower specified conditions.

【General industrial machine】

- Food processing machinery
- Package machinery
- Welding machinery
- Laborsaving machinery
- Printing machinery
- Painting machinery
- Semiconductor
- Medical equipment
- Household appliance
- Water supply machinery



- **Packaging Machine.**
- **Food bagging and sealing package.**





THANK YOU.