

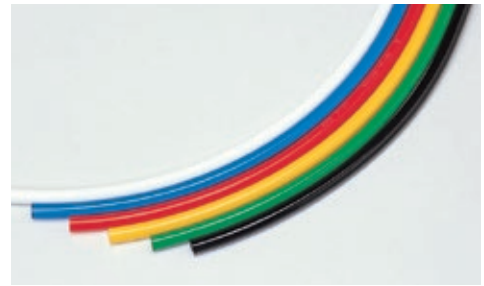
Polyurethane Tubing

U1

For general air pressure (high pressure type)

Features

- Usable in higher air-pressure range than U2 tubing.
- 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.



Product number table

● Millimeter size type (Group 4)

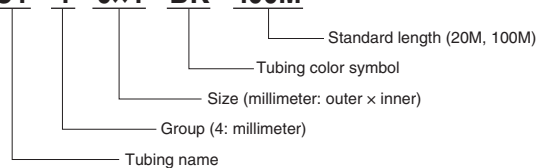
Type	Outer diameter × Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)					
					Black	White	Yellow	Blue	Green	Red
					BK	WH	YL	BU	GN	RE
U1-4-4×2.5	4×2.5	(Air) 1.2	10	9	●	○	●	●	●	●
U1-4-6×4	6×4		15	19	●	○	●	●	●	●
U1-4-8×5	8×5		23	36	●	○	●	●	●	●
U1-4-10×6.5	10×6.5	(Water) 0.9	30	53	●	—	—	—	—	—
U1-4-12×8	12×8		35	73	●	—	—	—	—	—

Standard length

20M, 100M

Product number example

U1 - 4 - 6x4 - BK - 100M



Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	-40°C~+80°C
Water	0°C~+50°C

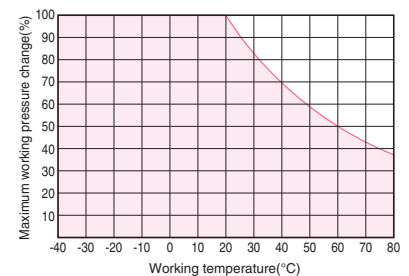
Negative pressure performance

-101.294kPa

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 indicated range.

⚠ Caution: Using tubes at a pressure outside the range may cause accidents or damage, for which Nitta is not liable.



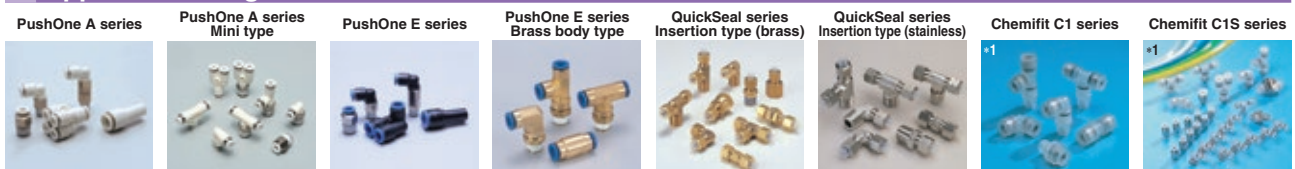
Handling instructions

⚠ Caution: When water is used as the operating fluid, the tubing material might degrade depending on the additive. Contact us for details.

⚠ Caution: When water is used as the operating fluid, keep the surge pressure below the maximum working pressure. Also, do not allow the water to freeze.

📖 See page 10 for common instructions for tubing products.

Applicable fittings

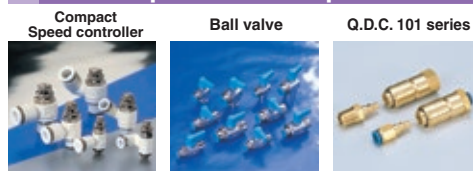


Applicable fittings

Chemifit CSE series



Related products and product introduction



Reference

Chemical resistance specification tableP.198
Effective sectional area ...P.168
Negative-pressure performance listP.169

(*1) Combinatory use of U1 tubing and Chemifit series mixes general and clean type performances. When using them together in a clean environment, be aware of how this could lower the cleanliness level.