

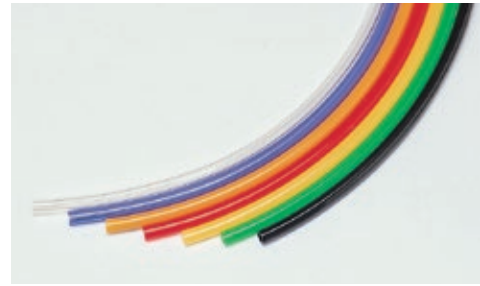
Polyurethane Tubing

U5

For general air pressure (ultra flexible)

Features

- The lowest bending stress among polyurethane tubes ensures high workability.
- Ether polyurethane resin is used to prevent degradation by water or mold under high temperature and high humidity.
- Usable for barb fittings (bamboo-shoot fittings).



Product number table

● Millimeter size type (Group 4)

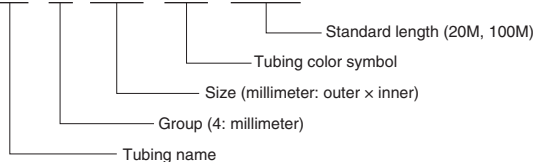
Type	Outer diameter × Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)						
					Black	Yellow brown	Clear	Clear blue	Clear green	Clear red	Clear yellow
					BK	BYL	CL	CBU	CGN	CRE	CYL
U5-4-3.5×2	3.5×2	0.4	7	8	●	●	○	○	○	○	○
U5-4-4×2.5	4×2.5		10	9	●	●	○	○	○	○	○
U5-4-6×4	6×4		15	19	●	●	○	○	○	○	○

Standard length

20M, 100M

Product number example

U5 - 4 - 6×4 - BK - 100M



Operating fluid, working temperature range

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

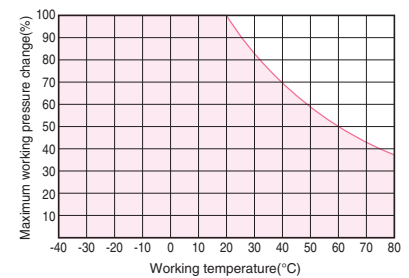
Negative pressure performance

-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: Water should not be used for operating fluid because of possible hydrolysis.

📖 See page 10 for common instructions for tubing products.

Applicable fittings

Bamboo-shoot fitting series Barb type



PushOne A series



PushOne E series



PushOne E series Brass body type



QuickSeal series Insertion type (brass)



QuickSeal series Insertion type (stainless)



Chemifit CSE series



(*1) Combinatory use of U5 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.

Related products and product introduction

Compact Speed controller



Ball valve



Q.D.C. 101 series



Reference

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