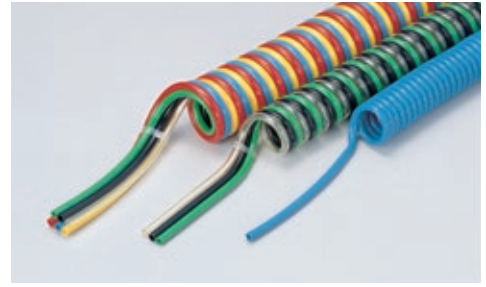


Polyurethane Coil Tubing

UC/USC/UMC

Features

- Polyurethane tubes of type U2 in coiled form.
- USC has a smaller coil diameter than UC.
- UMC is a coil tubing with multiple tubes welded for multi piping.



Standard products

UC

Product number	Outer diameter × Inner diameter (mm)	Coil size (mm)			Max. working pressure (MPa at 20°C)	Max. stretchable length (m)	Weight (g/m)	Coiling direction	Standard color Blue
		A	B	C					
UC-6	6×4	240		35	0.8	2.5	80	Right	●
UC-8	8×5	300	200	42					
UC-10	10×6.5			52					

☞ Other tubing colors are available on request.

USC (small coil diameter type)

Product number	Outer diameter × Inner diameter (mm)	Coil size (mm)			Max. working pressure (MPa at 20°C)	Max. stretchable length (m)	Weight (g/m)	Coiling direction	Standard color Blue
		A	B	C					
USC-4	4×2.5	230		18	0.8	1.5	24	Left	●
USC-6	6×4	360	100	24					
USC-8	8×5			31					
USC-10	10×6.5			40					

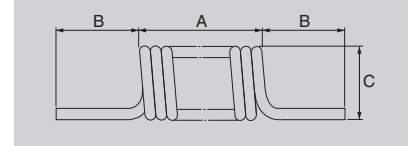
☞ Other tubing colors are available on request.

UMC (multi-coil type)

Product number	Number of tubes	Outer diameter × Inner diameter (mm)	Coil size (mm)			Max. working pressure (MPa at 20°C)	Max. stretchable length (m)	Weight (g/m)	Standard color combination	
			A	B	C					
UMC602	A B	6×4	350	100	40	0.8	1.5	114	●●	
UMC603	A B								3	●●●
UMC604	A B								4	●●●●
UMC606	A B	8×5	350	100	56	0.8	1.0	270	●●●●	
UMC802	A B								2	●●●●
UMC803	A B								3	●●●●●

☞ Other tubing colors are available on request.

Nominal lengths



- A: Total length of coiled part
- B: Length of straight part
- C: Outer coil diameter

Operating fluid, working temperature range

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

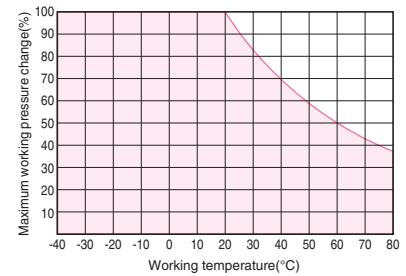
Negative pressure performance

-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.



☞ See page 10 for common instructions for tubing products.

Applicable fittings



(*1) Combinatory use of polyurethane coil 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

Tool balancer



Tubing

Clean tubing

Processed tubing

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

Jig/Tool/ Accessory

Technical information

Reference