Polyurethane Tubing

For general air pressure

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.

Product number table

Millimeter size type (Group 4)

Туре	Outer diameter x 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	Clear	Clear
					вк	wн	YL	BU	GN	RE	CL	CBL
U2-4-3×2	3×2	(Air) 0.8 (Water) 0.6	10	5	•	-	-	-	-	-	-	-
U2-4-4×2.5	4×2.5		10	9	•	0	0	•	•	•	0	0
U2-4-6×4	6×4		15	19	•	0	0	•	•	•	0	0
U2-4-8×5	8×5		23	35	•	0	0	•	•	•	0	0
U2-4-10×6.5	10×6.5		30	52	•	0	0	•	•	•	0	0
U2-4-12×8	12×8		35	72	•	0	0	•	•	•	0	0
U2-4-16×12	16×12		50	103	•	-	-	-	-	-	-	-

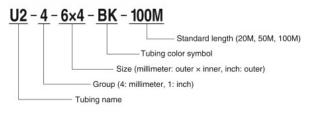
Inch size type (Group 1)

Туре	Outer diameter × Inner diameter (mm)	Max.	Min. bending radius (mm)		Standard color (color symbol)						
		working pressure		Weight (g/m)	Black BK			-	Red RE		
		(MPa at 20°C)		(9/11)							
U2-1-3/16	4.76×3.48		13	10	•	0	•	•	•	0	
U2-1-1/4	6.35×4.57	(Air) 0.6 (Water) 0.4	20	18	•	0	•	•	•	0	
U2-1-5/16	7.94×5.90		27	26	•	0	•	•	•	0	
U2-1-3/8	9.53×6.99		28	39	•	0	•	•	•	0	
U2-1-1/2	12.70×9.56		35	65	•	0	•	•	•	0	

Standard length

20M, 100M @U2-4-16×12: 50M only

Product number example



Operating fluid, working temperature range

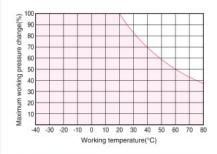
Operating fluid	Working temperature range					
Air	-40°C~+80°C					
Water	0°C~+50°C					

Negative pressure performance

-101.294kPa

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.

F See page 10 for common instructions for tubing products.

Applicable fittings

PushOne A series















Applicable fittings

Chemifit CSE series











Reference

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

^(*1) Combinatory use of U2 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.