

Polyurethane Tube

U2

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)

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	Clear	Clear blue	
					BK	WH	YL	BU	GN	RE	CL	CBU	
U2-4-3×2	3×2	(Air) 0.8	10	5	●	—	—	—	—	—	—	—	—
U2-4-4×2.5	4×2.5		10	9	●	○	●	●	●	●	○	○	
U2-4-6×4	6×4		15	19	●	○	●	●	●	●	○	○	
U2-4-8×5	8×5		23	35	●	○	●	●	●	●	○	○	
U2-4-10×6.5	10×6.5	(Water) 0.6	30	52	●	○	●	●	●	●	○	○	
U2-4-12×8	12×8		35	72	●	○	●	●	●	●	○	○	
U2-4-16×12	16×12		50	103	●	—	—	—	—	—	—	—	

● Inch size type (Group 1)

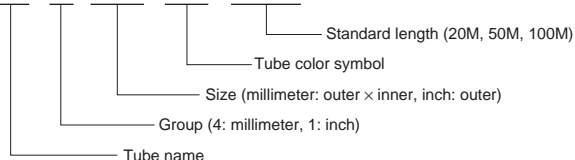
Type	Outer diameter × Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)					
					Black	Yellow	Blue	Green	Red	Clear
					BK	YL	BU	GN	RE	CL
U2-1-3/16	4.76×3.48	(Air) 0.6	13	10	●	●	●	●	●	○
U2-1-1/4	6.35×4.57		20	18	●	●	●	●	●	○
U2-1-5/16	7.94×5.90		27	26	●	●	●	●	●	○
U2-1-3/8	9.53×6.99	(Water) 0.4	28	39	●	●	●	●	●	○
U2-1-1/2	12.70×9.56		35	65	●	●	●	●	●	○

Standard length

20M, 100M ☞ U2-4-16×12: 50M only

Product number example

U2 - 4 - 6×4 - BK - 100M



Operating fluid, working temperature range

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

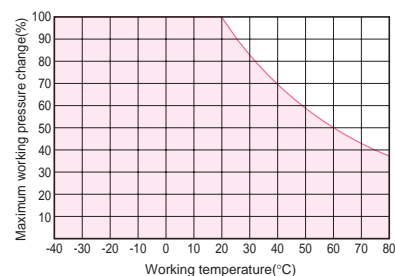
Negative pressure performance

-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 pressure, 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 Moore is not liable.



Handling instructions

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

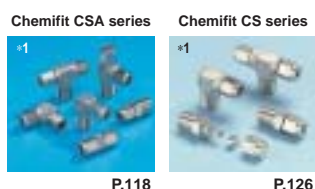
⚠ Caution When water is used as the operating fluid, keep the surge pressure under the maximum working pressure. Also, do not allow the water to freeze.

☞ See page 10 for common instructions for tube products.

Applicable fittings



Applicable fittings



Allied products and product introduction



Reference

Chemical resistance specification table ……P.209
Effective cross-sectional area ……P.178
Negative-pressure performance list ……P.179

(*1) Combinatory use of U2 tube and Chemifit series mixes general and clean type performances. When using them in a clean environment, pay attention to the clean level that could be lowered.