

FWU

For spot welding piping (flexible)

Features

- Flame resistant outer cover with high self extinction performance with compliant V-0 of UL94 standard
- Bilayer structure with flame-resistant resin outer layer and polyurethane inner layer with higher flexibility than FW
- Ether polyurethane resin is used for the inner layer to prevent degradation by water or mold under high temperature and high humidity.
- Marking along the tube as an insertion length indicator

Product number table

● Millimeter size type (Group 4)

Type	Inner tube Outer diameter × Inner diameter (mm)	Outer cover Cover thickness	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)								
						Inner tube	Outer cover							
							Black	Red	Blue	Green	Yellow	Light green	Pink	Greenish white
						BK	RE	BU	GN	YL	LGN	PK	GWH	
FWU-4-6×4	6×4	1.0	0.9	14	50	●	—	—	—	—	—	—	—	—
FWU-4-8×5	8×5	1.0		20	73	●	—	—	—	—	—	—	—	—
FWU-4-10×6.5	10×6.5	1.0	0.6	30	98	●	●	●	—	—	●	●	●	●
FWU-4-12×8	12×8	1.0		35	126	●	●	●	●	●	●	●	●	●

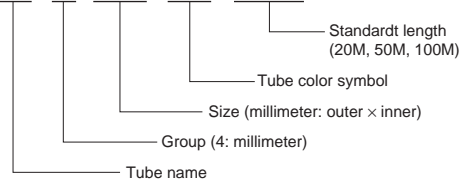
⚠ Caution Before using FWU tubes, peel off outer covers.
Use Nitta Moore's special cutter (TC02, TC03) to peel off covers.

Standard length

20M, 100M 📏 FW-4-16x12: 50M only

Product number example

FWU - 4 - 6×4 - BK - 100M



Insertion length marking

Marking along the tube as an insertion length indicator



Operating fluid, working temperature range

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

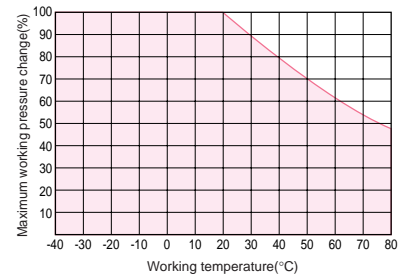
Negative pressure performance

-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 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 below the maximum working pressure. Also, do not allow the water to freeze.

📖 See page 10 for common instructions for tube products.

Applicable fittings



(*1) When QuickSeal series fittings are used on a sputter-resistant line, replace the nylon sleeve with a brass sleeve.

Allied products and product introduction



Reference

UL-94 standard flame testP.206
Effective cross-sectional areaP.178
Negative-pressure performance listP.179

