# FWU

### For spot welding piping (flexible)

#### Features

- Tubes with higher flexibility than FW, with a double-layer structure which utilizes a flame-retardant resin for the outer layer and an ether-based polyurethane resin for the inner layer.
- Markings along the tubing as an insertion length indicator.

#### Product number table

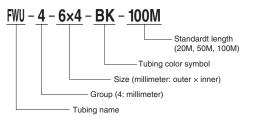
Millimeter :	size type	(Group 4)												
	Inner tubing	Outer cover	Max.	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)								
Turne	Outer diameter		working pressure (MPa at20°C)			ping	Outer cover							
Туре	Inner diameter (mm)	Cover thickness				Inner tubing	Black	Red	Blue	Green	Yellow	Light green	Pink	Greenish white
										GN				
FWU-4-6×4	6×4	1.0		14	50		•	-	-	—	—	—	—	—
FWU-4-8×5	8×5	1.0	0.9	20	73	×	•	-	—	—	_	—	—	—
FWU-4-10×6.5	10×6.5	1.0	0.6	30	98	Black	•	•	•	—	—	0	•	0
FWU-4-12×8	12×8	1.0		35	126		•		•	ightarrow	0	0	•	0

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

#### Standard length

20M, 100M G FWU-4-12x8: 50M only

#### Product number example



#### Insertion length markings

Markings along the tubing 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

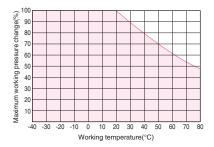
#### Negative pressure performance

#### -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 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.
- See page 10 for common instructions for tubing products.

Tubing

# Applicable fittings PushOne A series PushOne E series Brass body type PushOne E series Brass body t





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QuickSeal series Insertion type (brass)

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

#### Related products and product introduction

#### Outer cover peeling cutter Spatter cap



### Reference

UL-94 standard
flame test ·····P.195
Effective sectional area····P.168
Negative-pressure
performance list ······P.169