

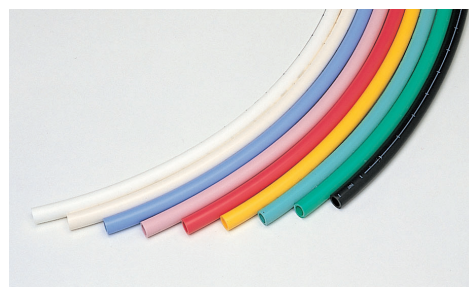
Flame-resistant Tubing

FS

For spot welding piping

Features

- Tubes which utilize a flame-retardant resin.
- Our line-up of products with increased inner diameters contributes to the increase in flow volume.
- Markings along the tubing as an insertion length indicator.



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	Light cream	Light green	Pink	
					BK	WH	YL	BU	GN	RE	LC	LG	PK	
FS-4-4×2.5	4×2.5	1.0	10	10	●	○	●	●	●	●	—	—	—	
FS-4-6×4	6×4		15	21	●	○	●	●	●	●	●	—	—	
FS-4-8×5	8×5	1.2	15	40	●	○	●	●	●	●	—	—	—	
*1 FS-4-8×5.5	8×5.5	0.9	20	36	●	○	●	●	●	●	●	—	—	
FS-4-10×6.5	10×6.5	1.0	20	60	●	○	●	●	●	●	—	—	—	
*1 FS-4-10×7	10×7	0.9	25	55	●	○	●	●	●	●	●	●	●	
FS-4-12×8	12×8	1.0	30	82	●	○	●	●	●	●	—	—	—	
*1 FS-4-12×8.5	12×8.5	0.9	30	77	●	○	●	●	●	●	●	●	●	
FS-4-16×12	16×12	0.7	80	106	—	—	—	●	—	—	—	—	—	

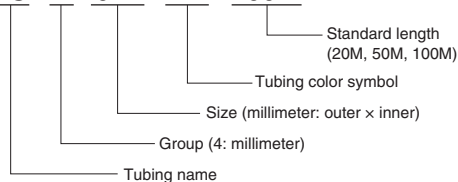
*1 Insertion type fittings of QuickSeal series cannot be used for FS tubing because of different inner diameters.
*2 Made to Order

Standard length

20M, 100M FS-4-16x12: 50M only

Product number example

FS - 4 - 6x4 - BK - 100M



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~+100°C
Water	0°C~+70°C

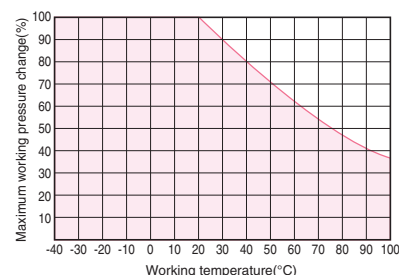
Negative pressure performance

-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.

Applicable fittings



(*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

Spatter cap



Reference

Flame test of UL-94 standardP.195
Effective sectional area ...P.168
Negative-pressure performance listP.169