

Fluorocarbon Resin Tubing

TA

For clean, heat-resistant, cold-resistant, chemical-resistant use

Features

- PFA (copolymer of tetrafluoroethylene – perfluoroalkyl vinyl ether) resin tubing with high chemical resistance.
- Produced, end-sealed, heat-sealed for shipping in a cleanroom.
- Easy cleaning with little remaining fluid inside.
- Less aged deterioration and high weather resistance.
- Usable in ozone environment.
- Usable for clean fittings of Chemifit CSE series.
- Compliant with the MHLW Ministerial Notification No.201(2006), MHW Ministerial Notification No.370(1959), Japan.

Product number table

● Millimeter size type (Group 4)

Type	Outer diameter x Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)	
					Translucent	CWH
TA-4-3x2	3x2	1.5	20	8.5	○	○
TA-4-4x2	4x2	2.5	25	20	○	○
TA-4-4x3	4x3	0.9	30	12	○	○
TA-4-6x4	6x4	1.6	30	34	○	○
TA-4-8x6	8x6	1.1	50	47	○	○
TA-4-10x8	10x8	0.8	70	61	○	○
TA-4-12x9	12x9	1.1	70	106	○	○
TA-4-12x10	12x10	0.7	100	74	○	○
* TA-4-14x12	14x12	0.6	150	89	○	○
* TA-4-17x14	17x14	0.7	300	159	○	○
TA-4-19x16	19x16	0.6	400	179	○	○
* TA-4-24x20	24x20		500	300	○	○
* TA-4-25x22	25x22	0.5	600	240	○	○

*Made to Order

● Inch size type (Group 1)

Type	Outer diameter x Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)	
					Translucent	CWH
TA-1-1/4	6.35x4.57	1.1	30	33	○	○
TA-1-3/8	9.53x6.99	1.1	50	71	○	○
TA-1-1/2	12.70x9.56	1.1	60	118	○	○

● Inch size type (Group 5) Different inner diameter from Group 1

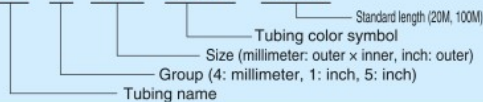
Type	Outer diameter x Inner diameter (mm)	Outer diameter	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)	
						Translucent	CWH
TA-5-3.18x2	3.18x2	1/8	1.5	7	10	○	○
TA-5-6.35x3.96	6.35x3.96	1/4	1.7	45	42	○	○
TA-5-9.53x6.35	9.53x6.35	3/8	1.5	60	86	○	○
TA-5-12.7x9.53	12.70x9.53	1/2	1.1	90	120	○	○
* TA-5-19.1x15.9	19.10x15.9	3/4	0.6	400	186	○	○
* TA-5-25.4x22.2	25.40x22.2	1	0.5	600	240	○	○

☞ Applicable fittings for Group 5 are Chemifit C1 series and Chemifit C1S series with the same outer diameter.

*Made to Order

Product number example

TA - 4 - 6x4 - CWH - 100M



Standard length

20M, 100M

- ☞ TA-4- 14x12, 17x14, 19x16, 24x20, 25x22 and
- TA-5- 19.1x15.9, 25.4x22.2: 20M only



Operating fluid, working temperature range

Operating fluid	Working temperature range
Air (clean air)	-65°C~+260°C
Water (pure water)	0°C~+100°C

☞ Contact us for various chemical liquids.

☞ See "Combination List of Tubing and Fitting" on page 8.

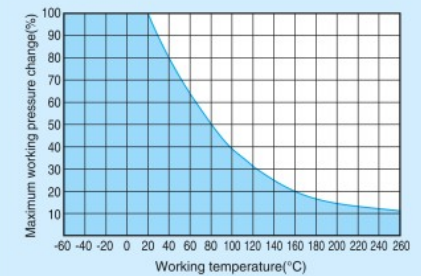
Negative pressure performance

-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, 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

Chemifit C1 series 	Chemifit C1S series 	Chemifit CSE series 	Chemifit CP series 	PushOne A series 	PushOne A series Mini type 	PushOne E series 	PushOne E series Brass body type
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Applicable fittings

QuickSeal series Insertion type (brass) 	QuickSeal series Insertion type (stainless)
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Related products and product introduction

Chemifit C1 Speed controller 	Various bending processing
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Products with high-graded PFA material are available on request. Contact us for details.

Reference

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

(*1) Combinatory use of TA tubing and PushOne series / QuickSeal 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.

(*2) Contact us for specifications.

Tubing

Clean tubing

Processed tubing

PushOne fitting

QuickSeal fitting

Clean fitting/ Chemifit

Bamboo-shoot fitting

Control switch/ Detachable series

Jig/Tool/ Accessory

Technical information

Reference