RoHS)

Compatible with Japan Food Sanitation Law

Polyurethane Tubing

Compatible with Japan Food Sanitation Law

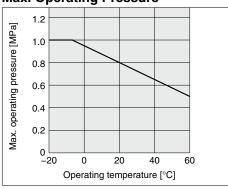
Compatible with the test conforming to Japan Food Sanitation Law based on the 370th notice given by the Ministry of Health and Welfare in 1959.

Color variations: Black, White, Blue, Clear

●Size variations (O.D./mm): Ø4, Ø6, Ø8, Ø10, Ø12

Length per roll: 20 m

Max. Operating Pressure



Precautions

Be sure to read this before handling. For Safety Instructions and Fittings & Tubing Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on SMC I website, http://www.smcworld.com

⚠ Caution

- Applicable for general industrial water. Please consult with SMC if using for the other kind of fluid. Also, the surge pressure must not exceed the maximum operating pressure. If the surge pressure exceeds the maximum operating pressure, it will result in damage to fittings and tubes.
- 2. Abnormal temperature rises caused by adiabatic compression may result in the tube bursting.
- 3. The value of the minimum bending radius is measured at the temperature of 20°C as shown in the figure below.



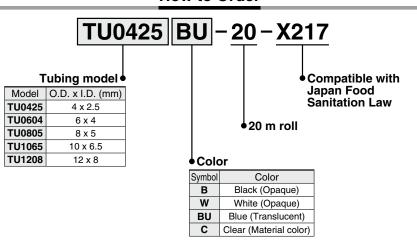
Bend the tube into a U shape at a temperature of 20°C. Fix one end and bend the loop gradually. Measure 2R when the tube breaks or is crushed.

Madal

		Tubi	ng size (Metric	size)	
Model	TU0425	TU0604	TU0805	TU1065	TU1208
O.D. (mm)	4	6	8	10	12
I.D. (mm)	2.5	4	5	6.5	8
Black (B)	\neg	—	<u> </u>	<u> </u>	-
White (W)	—				
Blue (BU)	—	•	•	•	
Clear (C)	—	-	-	<u> </u>	─

Fluid		Air, Water						
Max. operating 20°C			0.8					
pressure	40°C		0.65					
[MPa]	.0.5 0.5							
Applicable fittin	gs	One-touch fittings, Insert fittings, Miniature fittings						
Min. bending radiu	s [mm]	n] 10 15 20 27			3	5		
Operating tempe	rature	e −20 to +60°C, Water: 0 to 40°C (No freezing)						
Material		Polyurethane						

How to Order



* Note that the model number is not printed on the tube body.

Food-related laws and regulations compliant products

Compatible with Japan Food Sanitation Law

Compatible with the test conforming to Japan Food Sanitation Law based on the 370th notice given by the Ministry of Health and Welfare in 1959.

Compatible with FDA (U.S. Food and Drug Administration)

- Compatible with the §177.1550 elution test approved by the United States FDA (U.S. Food and Drug Administration).
- Compatible with the §177.2600 elution test approved by the United States FDA (U.S. Food and Drug Administration).

Se	eries	Compatible with Japan Food Sanitation Law	Compatible with FDA (U.S. Food and Drug Administration)
	TU-X217	•	_
	TL/TIL	•	●*1
Tubina	TLM/TILM	•	●*1
Tubing	TH/TIH	•	●*1
	TD/TID	•	●*1
	TU-X214	_	●* ²

lubina

High Purity Fluoropolymer Tubing TL/TIL

Compatible with Japan Food Sanitation Law Compatible with FDA (U.S. Food and Drug Administration)

- Material: Super PFA
- Max. operating pressure: 1.0 MPa or less (at 20°C)*
- Max. operating temperature: 260°C (This can vary according to operating pressure.)
- * This can vary according to size.

Tubin	Color	
Metric size	Inch size	Color
ø4, ø6, ø8, ø10 ø12, ø19	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2", ø3/4", ø1"	Translucent

Fluoropolymer Tubing (PFA) *TLM/TILM*

Compatible with Japan Food Sanitation Law Compatible with FDA (U.S. Food and Drug Administration)

- Material: PFA
- Max. operating pressure: 2.3 MPa or less (at 20°C)*
- Max. operating temperature: 260°C (This can vary according to operating pressure.)
- * This can vary according to size.



	Tubin	Color	
	Metric size	Inch size	Color
)	ø2, ø3, ø4, ø6, ø8, ø10 ø12, ø16, ø19, ø25	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2", ø3/4" ø1", ø1 1/4"	Translucent, Black, Blue, Red

FEP Tubing (Fluoropolymer) TH/TIH

Material: FEP

 Max. operating pressure: 2.3 MPa or less (at 20°C)*

 Max. operating temperature: 200°C (This can vary according to operating pressure.)

* This can vary according to size.



Tubin	Color	
Metric size	Inch size	Color
ø4, ø6, ø8, ø10, ø12	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2", ø3/4"	Translucent, Black, Red, Blue

Compatible with Japan Food Sanitation Law Compatible with FDA (U.S. Food and Drug Administration)

Soft Fluoropolymer Tubing *TD/TID*

Compatible with Japan Food Sanitation Law Compatible with FDA (U.S. Food and Drug Administration)

Compatible with FDA (U.S. Food and Drug Administration)

- Material: Modified PTFE
- Max. operating pressure: 1.6 MPa or less (at 20°C)*
- Max. operating temperature: 260°C (This can vary according to operating pressure.)
- * This can vary according to size.

Tubin	Color	
Metric size	Inch size	Color
ø4, ø6, ø8, ø10, ø12	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2"	Translucent

Polyurethane Tubing *TU-X214*

 Color variations: Black, White, Red, Blue, Yellow, Green, Clear, Orange

- Size variations: ø4, ø6, ø8, ø10, ø12
- * Please contact SMC for details.
- * Note that the model number is not printed on the tube body.



Se	eries	Compatible with Japan Food Sanitation Law	Compatible with FDA (U.S. Food and Drug Administration)
	KQG2	•	_
Fittings	KFG2	•	_
	KP	•	_



Stainless Steel 316 One-touch Fittings KQG2

Compatible with Japan Food Sanitation Law

Material: Metal parts/Stainless steel 316
Seal parts/Special FKM

Fluid temperature: −5 to 150°C

• Grease-free, Can be used with steam.



	Applicable tubing O.D.	Connection thread
Metric size	ø3.2, ø4, ø6, ø8, ø10, ø12, ø16	M5 R·Rc 1/8, 1/4, 3/8, 1/2
Inch size	ø1/8", ø5/32", ø1/4" ø5/16", ø3/8", ø1/2"	UNF10-32 NPT1/8, 1/4, 3/8, 1/2

Stainless Steel 316 Insert Fittings *KFG2*

Compatible with Japan Food Sanitation Law

- Material: Stainless steel 316, Rubber material is not used. (Except swivel elbow)
- Fluid temperature: -65 to 260°C (Swivel elbow: -5 to 150°C)
- Grease-free, Can be used with steam.



Applicable tubing O.D.		Connection thread
Metric size	ø4, ø6, ø8, ø10, ø12, ø16	R·Rc 1/8, 1/4, 3/8, 1/2
Inch size	ø1/8", ø5/32", ø1/4" ø5/16", ø3/8", ø1/2"	NPT1/8, 1/4, 3/8, 1/2

Clean One-touch Fittings For Blowing KP

Compatible with Japan Food Sanitation Law

- Liquid-contact areas are non-metallic
- Completely oil-free (Rubber parts are fluorine-coated.)
- Parts cleaning, assembly and double packaging in a clean room
- Can be used for vacuum (-100 kPa)



Applicable tubing O.D.	Connection thread
ø4, ø6, ø8, ø10, ø12	R 1/8, 1/4, 3/8, 1/2

⚠Warning

Avoid installing and using fittings and tubing inside a food zone.

• Not installable Food zone : An environment where food which will be sold as merchandize, directly touches the fittings and tubing.

• Installable Splash zone : An environment where food which will not be sold as merchandize, directly touches the fittings and tubing. Non-food zone: An environment where there is no contact with food.



