

13

13 Years' focus on fluid system

18

18 Years' R&amp;D Experience

100

Business covers more than 100 countries &amp; regions

12,000

more than 12,000 well-known enterprise customers

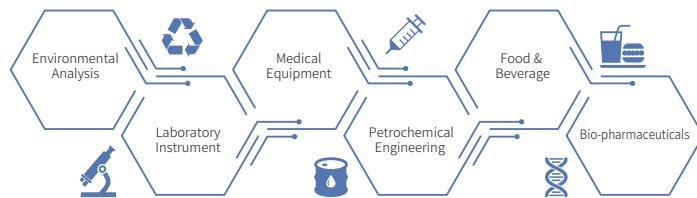


## 公司简介 COMPANY PROFILE

Nanjing Runze Fluid Control Equipment Co., Ltd is a high-tech enterprise who devote ourselves to research and develop high precision analytical parts such as syringe pumps, multiport valves, plastic fittings, peristaltic pumps, gas-tight syringes, customized dispensing systems that play an important role in medical analysis instruments, environmental on-line analyzers, industrial production line, laboratory and biological analyzers.

RUNZE possess solid technical foundation, relative professional R&D team, high-tech production equipment, skillful inspection procedures that help to establish its key position on the market. In coming future, we will persevere in higher level analytical technologies to provide customers with most satisfactory application experience, microfluidic solutions and services.

### Industrial Applications



## 企业荣誉 ENTERPRISE HONOR

RUNZE attracted experienced talents with strong capability on integrating software and hardware at electronic research, mechanical design, mold manufacturing. In past years, we have accumulated rich technical and practical experience that bring us honors of ISO9001, National High-tech Enterprise, Jiangsu Province Private Science and Technology Enterprise, 5A Bank Credit Assessment, 49 technical patents and software copyright including 2 invention patents, 33 utility model patents, 13 design patents, 2 software copyright.

In order to provide our customers with the best quality and service, our syringe pumps, switching valves, peristaltic pumps, pump tubings, joints and other accessories have applied for various international certifications, such as ISO 9001, ROHS, CE, SGS, etc.



- 01 Quality Management System Certificate
- 02 Computer Software Copyright Registration Certificate
- 03 Design Patent Certificate
- 04 Utility Model Patent Certificate
- 05 Certificate for Inventor's Patent Right
- 06 China's High-tech Enterprise
- 07 Private Technology Enterprise in Jiangsu Province
- 08 Innovate and Develop Advanced Units



PRODUCT CATEGORY  
**RUNZE PRODUCTS**

Syringe Pump

Gastight Syringe

Multiport Valve

Peristaltic Pump

Stepper Motor Driver

Accessories

Above information please refer to  
*RUNZE FLUID PUMPS AND VALVES SERIES CATALOGUE*

Fittings & Connectors

Tubing

Above information please refer to  
*RUNZE FLUID PLASTIC FITTINGS & TUBE CATALOGUE*

WELCOME TO RUNZE

## A SMARTER FLUIDIC ACCESSORY SYSTEM

Runze fluid is dedicated to your success through thousands of solutions for our customers and fierce global competition with other companies. Productivity ensurement, downtime reduction, and safety increasement is our innovative approaches to enhance your competitive advantages. We will cooperate closely with you and share our experience in fluid systems with you. All of our knowledge and experience is available through design consultation, technical support, product selection and field commissioning.

Each employee in Runze willing to listen to your needs in order to provide you with the most suitable solution.

# contents



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<b>09</b>	<b>PEEK Fitting</b>	
	PEEK Flanged Fitting Two-piece set	09
	PEEK Flangeless Fitting Two-piece set	11
	PEEK Flangeless Fitting Three-piece set	13
	PEEK One-piece Hand Tightening Fitting	15
	PEEK Two-piece Hand Tightening Fitting	16
	Ultra Mini PEEK Flanged Fittings - two-piece set	17
	Ultra Mini PEEK Flangeless Fittings - three-piece set	18
	PEEK Big Bore Flangeless Fitting - two-piece set	19
	PEEK Female Thread Straight Adapter	21
	PEEK Female Thread Elbow Adapter	22
	PEEK Female Thread T Adapter	23
	PEEK Female Thread Y Adapter	24
	PEEK Female Thread Cross Adapter	25
	PEEK Female Thread Luer Adapter	26
	PEEK Female Thread Bulkhead Union	27

---

<b>31</b>	<b>Threaded Fitting</b>	
	Flanged Fitting Two-piece set	31
	Flangeless Fitting Two-piece set	33
	Pre-torque Flangeless Fitting Two-piece set	37
	Color Flangeless Fitting Two-piece set	39
	Coned Plug	42
	Female Thread Adapter	43
	Low Pressure Male Union	44
	Bulkhead Two-piece Union	45
	Bulkhead Three-piece Union	46

---

<b>49</b>	<b>Barb-to-Thread Adapter</b>	
	Barb-to-Female Adapter	49
	Barb-to-Male Adapter	50
	Anti-twist Barb Adapter	51

---

<b>53</b>	<b>Barbed Connector</b>	
	Barbed Union	53
	Elbow Barbed Connector	54
	Barbed T/Y Connector	55
	Barbed Sink Head	56
	Barbed Bulkhead Union Two piece set	57
	Barbed Check Valve	59
	Luer Adapter	63

---

<b>67</b>	<b>Tubing</b>	
	Saint-Gobain Rubber Tube	67
	MasterFlex Viton Tube	68
	Silicone Tube	69
	PEEK Capillary Tube	70
	FEP tube	71
	PTFE tube	72
	Tube chemical resistance	73

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## Overview

- **Thread Fittings:** fittings with male threads and ferrule (clip) bring tight connections for PTFE, FEP and other tubing applications. The fittings types can be classified as flangeless fittings and flanged fittings (flanged, flat).
  - ☆ Flangeless fittings are standard fittings with straight threads, which can be used without additional tools and are economical and durable. Just put the flangeless nut and ferrule on the tube and screw it into the tubing interface; it needs to be used with ferrule.
  - ☆ Flanged fittings: The fitting requires a flat flanged end and a washer located between the flanged end and the flat fittings. Tightened by the flangeless nut for the sealing, the wetted part of this kind of fitting is the tube itself; matching washer is required.
- **Barb-to-Thread Fittings:** These fittings have both threads and barbed ends, and the thread parts are convenient for tubing arrangement, convergence and fixing.
  - ☆ 1. Female thread to barbed end: for hose and rigid tube conversion connection
  - ☆ 2. Bottom sealing: The threads are left with a step plane, and face-to-face contact is sealed by thread extrusion.
- **Barbed Fittings:** fittings with barbed head, insert the fitting into the inner diameter of the tube, the barbed end makes the hose expand by internal pressure, pipe expansion ratio of about 20% ~ 50%, so that it seals, sealing pressure  $\leq 200\text{kPa}$  (29psi), test conditions for rubber hose, hardness of 64 (Shore A), room temperature. Used for silicone tube, rubber tube, viton tube and other flexible tubes.
  - ☆ Hose fittings: types can be divided into straight, L-type, T-type, Y-type and Barbed Bulkhead Union, etc. It can also be divided into the same tube size connectors (equal connector) and different tube size connectors (reducer connector), such as equal union, reducer union, reducer L-type, etc.
  - ☆ Luer adapters: plug-in type, easy to connect the hose, Luer connector consists of male Luer and female Luer, male Luer is equipped with a 6% (Luer) male cone locking adapters with female threaded circlip, female Luer is equipped with a 6% (Luer) female thread locking adapter with male thread.

## NOTES

1.Regarding the data provided by *Runze Comprehensive Performance Test Report*, the following notes

**Pull-off strength:** Refers to the force that the pipe falls off when it is connected to the mouth

Test method: Install and tighten the sample assembly and torque fixture, Turn the handle until the tube comes off, Record the torque when it fall off.

**Rapture value:** Refers to the pressure value recorded when air leakage begins to occur in the air tightness testing on tube or joint.

**Pressure values:** The pressure values we provide are all safety pressures, which is 70% of the critical pressure at which the pipe or joint is about to leak under the pressure test.

Test method: Connect the sample to the tooling of fitting pressure test, fill the tank with water, and observed for bubble formation in the water tank under pressure, Rotate the pressure regulating valve and increase the pressure step by step until leakage occurred, then record the value. At this time, the pressure is the withstand pressure, The pressure can be reduced to 70% to conduct pressure holding test for the observation of leakage

2.Unless specified otherwise, all tests involved in fittings are done with water at room temperature. Results may vary depending on receiving port and tube material, actual tube diameter (standard tolerance), temperature and solvent used, and data is for reference only.

More detailed information can be obtained by contacting Runze sales engineer (+86 138-5195-4068).

## Material Characteristic

PP	Polypropylene is a polymer made by the polymerization of propylene, transparent and light in appearance, resistant to acids, alkalis, salts and many organic solvents below 80°. FDA and UL approved material, applicable temperature range 13°C ~66°C <b>REACH and ROHS Certified, Biocompatibility reports available</b>
PTFE	Polytetrafluoroethylene, with typical excellent properties of gas plastic resin, good tensile properties, chemical resistance, low friction. Applicable temperature range -50°C ~100°C <b>REACH and ROHS Certified</b>
PFA	Copolymer of a small amount of Heptafluoropropyltrifluorovinylether and polytetrafluoroethylene. Melt bonding is enhanced while the viscosity of the solution is reduced, and there is no change in performance compared with polytetrafluoroethylene. Applicable temperature range -50°C ~100°C <b>REACH and ROHS Certified</b>
PEEK	High performance thermoplastic material, 30% carbon fiber reinforced polyacrylate ketone (PEEK), meets FDA food contact standards for higher strength and stiffness applications in static or dynamic systems. Good wear resistance, low coefficient of friction, low coefficient of thermal expansion, and chemical resistance to corrosive environments. Applicable temperature range -100°C~ 250°C <b>REACH and ROHS Certified, Biocompatibility reports available</b>
ETFE	a fluoropolymer, is chemically inert and has excellent chemical resistance, making it more suitable for high pressure applications than PTFE, FEP and PFA. Temperature range -80°C to 220°C <b>REACH Certified</b>
POM	A polyoxymethylene (POM) copolymer product that meets UL certification and maintains considerable chemical stability, excellent abrasion resistance and rigidity at high temperatures. Applicable temperature range -20°C ~ 60°C
PPS	Fortron@1140L4 is a polyphenylene sulfide PPS filled with 40% glass reinforcement, which has high strength, high toughness, excellent heat and chemical resistance, good electrical properties and inherent flame retardancy, high strength and rigidity at high temperatures allowing for good load bearing properties. Applicable temperature range -50°C-150°C
PVDF	Kvna@ resin is a vaporized thermoplastic homopolymer, FDA, USP Class V standard material. It can be sterilized by gamma radiation, but there will be some degree of color change at higher doses. Applicable temperature range -27°C-108°C

## Application Note 6mm

### What are the specifications of our threads?

Place your fitting on the outline of the male thread in the picture below to identify the corresponding thread specification

USS threads: UNF fine thread series	USS thread
6-40UNF	M6*1
10-32UNF	M8*1
1/4-28UNF	M8*1.25
5/16-24UNF	M10*1
1/2-20UNF	M10*1.5
	M12*1

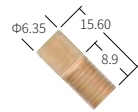
## PEEK Flanged Fitting

### —two-piece set

- ◆ A traditional flat-bottomed fitting. By deforming the bottom of the tube, the bottom of the tube then compressed to form an airtight rigid tube connection system.
- ◆ No change in tube diameter, no effect on flow rate, more stable flow rate
- ◆ Can be disassembled repeatedly without affecting its sealing
- ◆ Long-term working temperature range -50°C~+150°C
- ◆ Used for standard rigid tubing OD 1.6/2.0/2.5/3.0/3.2mm, easy and fast installation.

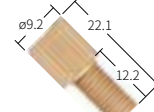
◆ Thread: 1/4-28UNF, M6

### Flangeless Nut (mm)



**WF01B**  
For 1.6/2.0mm OD tube

**WD01B**  
For 2.5/3.0/3.2mm OD tube



**WF06B**  
For 1.6/2.0mm OD tube

**WD06B**  
For 2.5/3.0/3.2mm OD tube

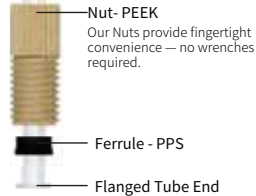
### Ferrule (mm)



**KCF-016S**  
For 1.6mm OD tube  
**KCF-020S**  
For 2.0mm OD tube



**KCF-025S**  
For 2.5mm OD tube  
**KCF-030/032S**  
For 3.0/3.2mm OD tube



#### Nut - PEEK

Our Nuts provide fingertight convenience — no wrenches required.

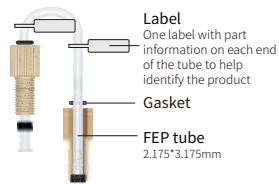
#### Ferrule - PPS

#### Flanged Tube End

※ Make sure the ferrule is oriented correctly! The narrow end of the ferrule should towards the nut.

※ Flange the tubing with exclusive flange tools, flanged Tube End  $\leq \phi 5\text{mm}$

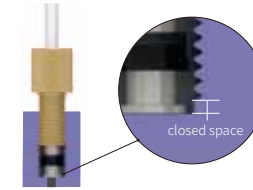
※ M6 threaded fittings support customization



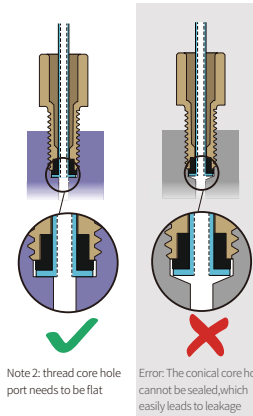
**Label**  
One label with part information on each end of the tube to help identify the product

#### Gasket

**FEP tube**  
2.175\*3.175mm



Note: Height of perforated closed space  $\leq 0.5\text{mm}$



Note2: thread core hole port needs to be flat

Error: The conical core hole cannot be sealed, which easily leads to leakage

### Related Products

▶ Please refer to page 69-70 FEP/PTFE Tube to achieve connection with rigid tube

SKU	Model (ID*OD)	Note
1005040001	TFLG00001 (0.8*1.6)	FEP Transparent
1005040002	TFLG00002 (1*2)	FEP Transparent
1005040003	TFLG00003 (1.5*2.5)	FEP Transparent
1005040004	TFLG00004 (2*3)	FEP Transparent
1005040005	TFLG00005 (2.175*3.175)	FEP Transparent

▶ It is recommended to purchase the handtightening tooling. The handle is designed to be longer and larger. with a larger force area, it is easier to tighten fittings in tight spaces.



SKU	Model No.	Note
1011010062	SNGZ-2	Uitable for WF06B/WD06B PEEK flangeless fittings

SKU	Model No.	Thread	Tube OD	Pull-off Strength	Rapture pressure	Pressure Rating	Material
<b>WF01B/WD01B</b>							
1011140001	WF01B-28K * KCF-016S	1/4-28UNF	1.6mm OD	1.49 kgf	3.25 Mpa	1.75 Mpa	PEEK natural * PPS black
1011140002	WF01B-28K * KCF-020S	1/4-28UNF	2.0mm OD	1.89 kgf	4.59 Mpa	2.71 Mpa	PEEK natural * PPS black
1011140005	WD01B-28K * KCF-025S	1/4-28UNF	2.5mm OD	2.11 kgf	3.22 Mpa	2.08 Mpa	PEEK natural * PPS black
1011140006	WD01B-28K * KCF-030/032S	1/4-28UNF	3.0mm/3.2mm OD	2.60 kgf	4.19 Mpa	2.78 Mpa	PEEK natural * PPS black
1011140019	WF01B-M6K * KCF-016S	M6	1.6mm OD	1.59 kgf	5.63 Mpa	3.58 Mpa	PEEK natural * PPS black
1011140020	WF01B-M6K * KCF-020S	M6	2.0mm OD	1.68 kgf	5.53 Mpa	3.72 Mpa	PEEK natural * PPS black
<b>WF06B/WD06B</b>							
1011140003	WF06B-28K * KCF-016S	1/4-28UNF	1.6mm OD	1.34 kgf	5.11 Mpa	3.41 Mpa	PEEK natural * PPS black
1011140004	WF06B-28K * KCF-020S	1/4-28UNF	2.0mm OD	1.39 kgf	3.92 Mpa	2.28 Mpa	PEEK natural * PPS black
1011140007	WD06B-28K * KCF-025S	1/4-28UNF	2.5mm OD	2.45 kgf	5.27 Mpa	3.60 Mpa	PEEK natural * PPS black
1011140008	WD06B-28K * KCF-030/032S	1/4-28UNF	3.0mm/3.2mm OD	2.33 kgf	5.32 Mpa	3.48 Mpa	PEEK natural * PPS black
1011140021	WF06B-M6K * KCF-016S	M6	1.6mm OD	1.66 kgf	5.42 Mpa	3.58 Mpa	PEEK natural * PPS black
1011140022	WF06B-M6K * KCF-020S	M6	2.0mm OD	1.66 kgf	5.42 Mpa	3.58 Mpa	PEEK natural * PPS black

SKU	Model No.	Thread	Model (ID*OD)	FEP tube length	Material
<b>With flanged tube</b>					
1011150001	WD06B-28K * KCF-030/032S * TFLG05	/0.2	1/4-28UNF	2.175*3.175mm	0.2 m
1011150002	WD06B-28K * KCF-030/032S * TFLG05	/0.3	1/4-28UNF	2.175*3.175mm	0.3 m
1011150003	WD06B-28K * KCF-030/032S * TFLG05	/0.5	1/4-28UNF	2.175*3.175mm	0.5 m
1011150004	WD06B-28K * KCF-030/032S * TFLG05	/1	1/4-28UNF	2.175*3.175mm	1 m
1011150005	WD06B-28K * KCF-030/032S * TFLG05	/2	1/4-28UNF	2.175*3.175mm	2 m
1011150006	WD01B-28K * KCF-030/032S * TFLG06	/0.2	1/4-28UNF	1.6*3.175mm	0.2 m
1011150007	WD01B-28K * KCF-030/032S * TFLG06	/0.3	1/4-28UNF	1.6*3.175mm	0.3 m
1011150008	WD01B-28K * KCF-030/032S * TFLG06	/0.5	1/4-28UNF	1.6*3.175mm	0.5 m
1011150009	WD01B-28K * KCF-030/032S * TFLG06	/1	1/4-28UNF	1.6*3.175mm	1 m
1011150010	WD01B-28K * KCF-030/032S * TFLG06	/2	1/4-28UNF	1.6*3.175mm	2 m

Note: If you need specific model other than above specification, please contact us for customization.



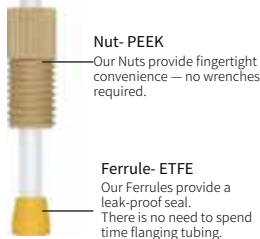
# PEEK Flangeless Fitting

## —two-piece set

- ◆ Standard fittings with straight threads, which are tool-free and durable. Simply slip the nut and ferrule on the tube, screwing them into the tube. Need to use with ETFE ferrule.
- ◆ CUT (Continuous Use Temperature): -80°C~+220°C
- ◆ Used for standard rigid tubing OD 1.6/2.0/2.5/3.0/3.2mm, easy and fast installation.
- ◆ Thread: 1/4-28UNF, M6

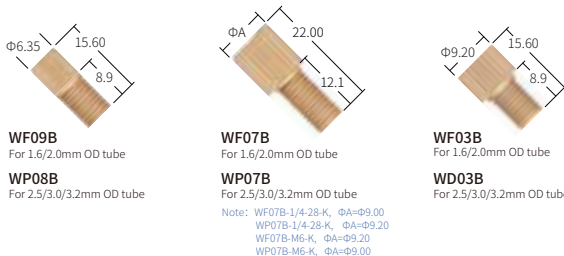
### Application Note

- Step 1.** Slide the PEEK nut, followed by the ETFE ferrule, at least 3/16" (4.7625mm) from the end of clean cut tubing
- Step 2.** Insert the assembly into the receiving port, pushing the tubing into the port until it bottoms out
- Step 3.** Finger tighten the fittings into the port until snug
- Step 4.** After several uses (especially at high pressure) the ferrules should be replaced

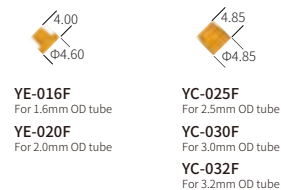


※ Make sure the ferrule is oriented correctly! The narrow end of the ferrule should towards the nut.  
 ※ M6 threaded fittings support customization

### Flangeless Nut (mm)



### Ferrule (mm)



### Related Products

▶ Please refer to page 51 FEP/PTFE Tube to achieve connection with rigid tube

SKU	Model (ID*OD)	Note
1005040001	TFLG00001 (0.8*1.6)	FEP Transparent
1005040002	TFLG00002 (1*2)	FEP Transparent
1005040003	TFLG00003 (1.5*2.5)	FEP Transparent
1005040004	TFLG00004 (2*3)	FEP Transparent
1005040005	TFLG00005 (2.175*3.175)	FEP Transparent

▶ It is recommended to purchase the handtightening tooling. The handle is designed to be longer and larger, with a larger force area, it is easier to tighten fittings in tight spaces.



SKU	Model No.	Note
1011010061	SGZ-1	Uitable for WF09B/WP08B WK11A PEEK fitting

SKU	Model No.	Thread	Tube OD	Pull-off Strength	Rapture pressure	Pressure Rating	Material
<b>WF09B/WP08B</b>							
1011010018	WF09B-28K * YE-016F	1/4-28UNF	1.6mm OD	1.69 kgf	5.47 Mpa	3.51 Mpa	PEEK natural * ETFE yellow
1011010017	WF09B-28K * YE-020F	1/4-28UNF	2.0mm OD	1.74 kgf	5.62 Mpa	3.53 Mpa	PEEK natural * ETFE yellow
1011010016	WP08B-28K * YC-025F	1/4-28UNF	2.5mm OD	2.35 kgf	5.52 Mpa	3.60 Mpa	PEEK natural * ETFE yellow
1011010015	WP08B-28K * YC-030F	1/4-28UNF	3.0mm OD	2.31 kgf	5.35 Mpa	3.37 Mpa	PEEK natural * ETFE yellow
1011010014	WP08B-28K * YC-032F	1/4-28UNF	3.2mm OD	2.33 kgf	5.59 Mpa	3.77 Mpa	PEEK natural * ETFE yellow
1011010050	WF09B-M6K * YE-016F	M6	1.6mm OD	1.68 kgf	5.69 Mpa	3.75 Mpa	PEEK natural * ETFE yellow
1011010051	WF09B-M6K * YE-020F	M6	2.0mm OD	1.68 kgf	5.87 Mpa	3.83 Mpa	PEEK natural * ETFE yellow
1011010052	WP08B-M6K * YC-025F	M6	2.5mm OD	1.66 kgf	5.59 Mpa	3.62 Mpa	PEEK natural * ETFE yellow
1011010053	WP08B-M6K * YC-030F	M6	3.0mm OD	1.85 kgf	5.43 Mpa	3.55 Mpa	PEEK natural * ETFE yellow
1011010054	WP08B-M6K * YC-032F	M6	3.2mm OD	1.65 kgf	5.55 Mpa	3.51 Mpa	PEEK natural * ETFE yellow
<b>WF07B/WP07B</b>							
1011010066	WF07B-28K * YE-016F	1/4-28UNF	1.6mm OD	1.97 kgf	5.72 Mpa	3.72 Mpa	PEEK natural * ETFE yellow
1011010067	WF07B-28K * YE-020F	1/4-28UNF	2.0mm OD	2.05 kgf	5.59 Mpa	3.67 Mpa	PEEK natural * ETFE yellow
1011010041	WP07B-28K * YC-025F	1/4-28UNF	2.5mm OD	2.75 kgf	6.33 Mpa	4.15 Mpa	PEEK natural * ETFE yellow
1011010042	WP07B-28K * YC-030F	1/4-28UNF	3.0mm OD	2.81 kgf	6.33 Mpa	4.23 Mpa	PEEK natural * ETFE yellow
1011010043	WP07B-28K * YC-032F	1/4-28UNF	3.2mm OD	2.73 kgf	6.47 Mpa	4.22 Mpa	PEEK natural * ETFE yellow
1011010039	WF07B-M6K * YE-016F	M6	1.6mm OD	1.86 kgf	6.42 Mpa	4.32 Mpa	PEEK natural * ETFE yellow
1011010040	WF07B-M6K * YE-020F	M6	2.0mm OD	2.61 kgf	6.51 Mpa	4.35 Mpa	PEEK natural * ETFE yellow
1011010063	WP07B-M6K * YC-025F	M6	2.5mm OD	2.69 kgf	5.69 Mpa	3.67 Mpa	PEEK natural * ETFE yellow
1011010064	WP07B-M6K * YC-030F	M6	3.0mm OD	2.73 kgf	5.78 Mpa	3.63 Mpa	PEEK natural * ETFE yellow
1011010065	WP07B-M6K * YC-032F	M6	3.2mm OD	2.62 kgf	5.70 Mpa	3.66 Mpa	PEEK natural * ETFE yellow
<b>WF03B/WD03B</b>							
1011010068	WF03B-28K * YE-016F	1/4-28UNF	1.6mm OD	1.97 kgf	5.59 Mpa	3.55 Mpa	PEEK natural * ETFE yellow
1011010069	WF03B-28K * YE-020F	1/4-28UNF	2.0mm OD	2.39 kgf	5.58 Mpa	3.67 Mpa	PEEK natural * ETFE yellow
1011010055	WD03B-28K * YC-025F	1/4-28UNF	2.5mm OD	2.38 kgf	5.63 Mpa	3.72 Mpa	PEEK natural * ETFE yellow
1011010056	WD03B-28K * YC-030F	1/4-28UNF	3.0mm OD	2.29 kgf	5.67 Mpa	3.66 Mpa	PEEK natural * ETFE yellow
1011010057	WD03B-28K * YC-032F	1/4-28UNF	3.2mm OD	2.34 kgf	5.62 Mpa	3.81 Mpa	PEEK natural * ETFE yellow
1011010078	WF03B-M6K * YE-016F	M6	1.6mm OD	1.84 kgf	5.51 Mpa	3.60 Mpa	PEEK natural * ETFE yellow
1011010079	WF03B-M6K * YE-020F	M6	2.0mm OD	1.81 kgf	5.72 Mpa	3.67 Mpa	PEEK natural * ETFE yellow
1011010058	WD03B-M6K * YC-025F	M6	2.5mm OD	2.31 kgf	5.52 Mpa	3.62 Mpa	PEEK natural * ETFE yellow
1011010059	WD03B-M6K * YC-030F	M6	3.0mm OD	2.28 kgf	5.52 Mpa	3.58 Mpa	PEEK natural * ETFE yellow
1011010060	WD03B-M6K * YC-032F	M6	3.2mm OD	2.29 kgf	5.47 Mpa	3.68 Mpa	PEEK natural * ETFE yellow

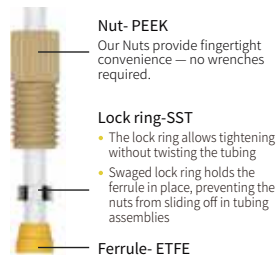


## Application Note

**Step 1.** Slide the PEEK nut, followed by the 316 SST sleeve and ETFE ferrule, at least 3/16" (4.7625mm) from the end of clean cut tubing

**Step 2.** Insert the assembly into the receiving port, pushing the tubing into the port until it bottoms out

**Step 3.** Finger tighten the fittings into the port until snug

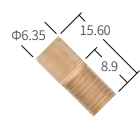


※ Make sure the locking ring is oriented correctly! The flattened end of the ring should face towards the nut with the narrow end of the ferrule towards the ring.

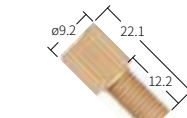
## PEEK Flangeless Fitting —three-piece set

- ◆ Standard fittings with straight threads, which are tool-free and durable. Simply slide the nut and ferrule on the tube, screwing them into the tube. Need to use with ETFE ferrule.
- ◆ With stainless steel sleeve, the rigid pipe does not follow the rotation during screwing flangeless nut. Effective elimination of loose fittings in the tube caused by twisting, can be tighten even when vibrating.
- ◆ High pressure fittings, ideal for pre-assembled tubing and where disconnections are often required
- ◆ Long-term working temperature range -80°C~+220°C
- ◆ Used for standard rigid tubing OD 1.6/2.0/2.5/3.0/3.2mm, easy and fast installation.
- ◆ Thread: 1/4-28UNF, M6

### Nut(mm)



**WF01B**  
For 1.6/2.0mm OD tube  
**WD01B**  
For 2.5/3.0/3.2mm OD tube



**WF06B**  
For 1.6/2.0mm OD tube  
**WD06B**  
For 2.5/3.0/3.2mm OD tube

### Lock Ring(mm)



**KCF-038SUS316**  
For 1.6/2.0mm OD tube



**KCF-045SUS316**  
For 2.5/3.0/3.2mm OD tube

### Ferrule(mm)



**YE-016F**  
For 1.6mm OD tube  
**YE-020F**  
For 2.0mm OD tube



**YK-025F**  
For 2.5mm OD tube  
**YK-030F**  
For 3.0mm OD tube  
**YK-032F**  
For 3.2mm OD tube

### Related Products

▶ Please refer to page 51 FEP/PTFE Tube to achieve connection with rigid tube

SKU	Model (ID*OD)	Note
1005040001	TFLG00001 (0.8*1.6)	FEP transparent
1005040002	TFLG00002 (1*2)	FEP transparent
1005040003	TFLG00003 (1.5*2.5)	FEP transparent
1005040004	TFLG00004 (2*3)	FEP transparent
1005040005	TFLG00005 (2.175*3.175)	FEP transparent

▶ It is recommended to purchase the handtighten tooling. The handle is designed to be longer and larger, with a larger force area, it is easier to tighten fittings in tight spaces.



SKU	Model No.	Note
1011010062	SNGZ-2	Uitable for WF06B/WD06B PEEK flangeless fittings

SKU	Model No.	Thread	Tube OD	Pull-off Strength	Rapture pressure	Pressure Rating	Material
<b>WF01B/WD01B</b>							
1011010009	WF01B-28K * YE-016F * KCF-038SUS316	1/4-28UNF	1.6mm OD	2.03 kgf	5.58 Mpa	3.65 Mpa	PEEK natural * ETFE yellow* SUS316
1011010010	WF01B-28K * YE-020F * KCF-038SUS316	1/4-28UNF	2.0mm OD	1.84 kgf	5.54 Mpa	3.57 Mpa	PEEK natural * ETFE yellow* SUS316
1011010011	WD01B-28K * YK-025F * KCF-045SUS316	1/4-28UNF	2.5mm OD	1.78 kgf	5.67 Mpa	3.68 Mpa	PEEK natural * ETFE yellow* SUS316
1011010012	WD01B-28K * YK-030F * KCF-045SUS316	1/4-28UNF	3.0mm OD	1.94 kgf	5.36 Mpa	3.53 Mpa	PEEK natural * ETFE yellow* SUS316
1011010013	WD01B-28K * YK-032F * KCF-045SUS316	1/4-28UNF	3.2mm OD	2.01 kgf	5.42 Mpa	3.58 Mpa	PEEK natural * ETFE yellow* SUS316
1011010070	WF01B-M6K * YE-016F * KCF-038SUS316	M6	1.6mm OD	1.91 kgf	5.66 Mpa	3.72 Mpa	PEEK natural * ETFE yellow* SUS316
1011010071	WF01B-M6K * YE-020F * KCF-038SUS316	M6	2.0mm OD	1.89 kgf	5.74 Mpa	3.70 Mpa	PEEK natural * ETFE yellow* SUS316
<b>WF06B/WD06B</b>							
1011010031	WF06B-28K * YE-016F * KCF-038SUS316	1/4-28UNF	1.6mm OD	1.78 kgf	5.65 Mpa	3.69 Mpa	PEEK natural * ETFE yellow* SUS316
1011010032	WF06B-28K * YE-020F * KCF-038SUS316	1/4-28UNF	2.0mm OD	1.87 kgf	5.54 Mpa	3.65 Mpa	PEEK natural * ETFE yellow* SUS316
1011010033	WD06B-28K * YK-025F * KCF-045SUS316	1/4-28UNF	2.5mm OD	1.79 kgf	5.61 Mpa	3.68 Mpa	PEEK natural * ETFE yellow* SUS316
1011010034	WD06B-28K * YK-030F * KCF-045SUS316	1/4-28UNF	3.0mm OD	1.81 kgf	5.55 Mpa	3.53 Mpa	PEEK natural * ETFE yellow* SUS316
1011010035	WD06B-28K * YK-032F * KCF-045SUS316	1/4-28UNF	3.2mm OD	1.71 kgf	5.52 Mpa	3.58 Mpa	PEEK natural * ETFE yellow* SUS316
1011010072	WF06B-M6K * YE-016F * KCF-038SUS316	M6	1.6mm OD	1.74 kgf	5.58 Mpa	3.68 Mpa	PEEK natural * ETFE yellow* SUS316
1011010073	WF06B-M6K * YE-020F * KCF-038SUS316	M6	2.0mm OD	2.03 kgf	5.68 Mpa	3.62 Mpa	PEEK natural * ETFE yellow* SUS316

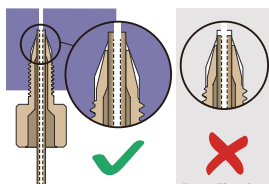
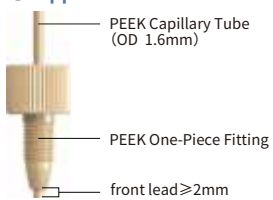


## PEEK One-piece Hand Tightening Fitting

- ◆ Continuous operating temperature: -100°C~+250°C
- ◆ Original one-piece hand tightening fittings
- ◆ 10-32 threaded coned head for HPLC system application
- ◆ Suitable for 1.6 mm OD PEEK/PTFE/ETFE/FEP and other semi-rigid tubes

Unit: mm

### ★ Application Note



Note: Make sure the tube is properly installed to the bottom of the port

Error 1: The tube does not reach the bottom of the port, introducing dead volume

### 🔗 Related Products

► It is recommended to purchase the hand tighten tooling. The handle is designed to be longer and larger, with a larger force area, it is easier to tighten fittings in tight spaces.



SKU	Model No.	Note
1011010061	SNGZ-1	Uitable for WK11E-10-32-K PEEK one-piece fitting
1011010081	SNGZ-4	Uitable for WF09B/WP08B WK11A PEEK fitting

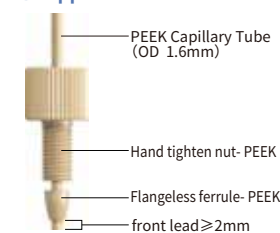
SKU	Model No.	Thread	Tube OD	Pull-off Strength	Rapture pressure	Pressure Rating	Material
1011010005	WK11A-10-32-K	10-32UNF Coned	1.6mm OD	10.52 kgf	—	—	PEEK natural
1011010006	WK11E-10-32-K	10-32UNF Coned	1.6mm OD	3.86 kgf	13.07 Mpa	9.10 Mpa	PEEK natural
1011010007	WK11C-10-32-K	10-32UNF Coned	1.6mm OD	4.47 kgf	—	8.53 Mpa	PEEK natural
1011010008	WK11G-10-32-K	10-32UNF Coned	1.6mm OD	—	—	—	PEEK natural



## PEEK Two-piece Hand Tightening Fitting

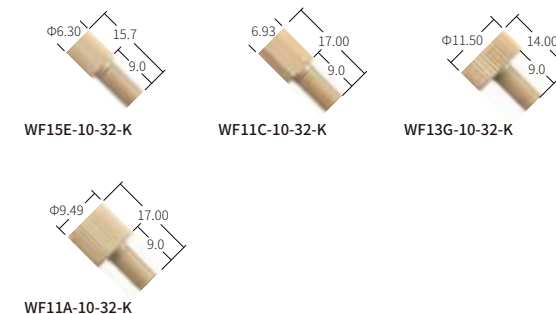
- ◆ Two-piece design, economical and practical, only need to replace the flangeless nut
- ◆ Continuous operating temperature: -100°C~+250°C
- ◆ 10-32UNF threaded coned head for HPLC system application
- ◆ Suitable for 1.6 mm OD PEEK/PTFE/ETFE/FEP and other semi-rigid tubes

### ★ Application Note

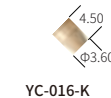


※ Other installation considerations are the same as for PEEK one-piece fittings

### Hand tighten nut(mm)



### Flangeless ferrule(mm)



YC-016-K

### 🔗 Related Products

► Please refer to page 68 for PEEK capillary tubing that fits these fittings

SKU	Model (ID*OD)	Note
1005050007	0.1*1.6	PEEK natural
1005050006	0.13*1.6	PEEK natural
1005050013	0.18*1.6	PEEK natural
1005050005	0.25*1.6	PEEK natural
1005050004	0.38*1.6	PEEK natural
1005050003	0.5*1.6	PEEK natural
1005050002	0.75*1.6	PEEK natural
1005050001	1*1.6	PEEK natural

SKU	Model No.	Thread	Tube OD	Pull-off Strength	Rapture pressure	Pressure Rating	Material
1011010082	WF15E-32K * YC-016K	10-32UNF Coned	1.6mm OD	2.03 kgf	10.16 Mpa	7.10Mpa	PEEK natural
1011010084	WF11C-32K * YC-016K	10-32UNF Coned	1.6mm OD	1.98 kgf	10.57 Mpa	7.40 Mpa	PEEK natural
1011010086	WF13G-32K * YC-016K	10-32UNF Coned	1.6mm OD	11.76 kgf	—	—	PEEK natural
1011010088	WF11A-32K * YC-016K	10-32UNF Coned	1.6mm OD	—	9.07 Mpa	6.30 Mpa	PEEK natural





## Ultra Mini PEEK Flanged Fittings — two-piece set

- ◆ A traditional flat-bottomed fitting. By deforming the bottom of the tube, the bottom of the tube then compressed to form an airtight rigid tube connection system.
- ◆ No change in tube diameter, no effect on flow rate, more stable flow rate
- ◆ Can be disassembled repeatedly without affecting its sealing
- ◆ Long-term working temperature range -80°C~+220°C
- ◆ Used for standard rigid tubing OD 1.6mm, easy and fast installation.
- ◆ Thread: 6-40UNF

### Application Note

**Step 1.** Flange the tubing with exclusive flange tools, tubing can be flanged one end or both two ends, depending on specific application requirements

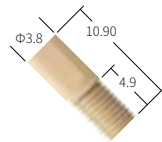
**Step 2.** When tubing flanged in two ends, 2 pieces clips and 2 pieces nuts need to be slid into the tubing before both ends flanged; when tubing flanged in one end, 1 piece clip and 1 piece nut can be slid into tubing before or after the one end flanged.

**Step 3.** Insert the assembly into the receiving port, pushing the tubing into the port until it bottoms out

**Step 4.** Finger tighten the fittings into the port until snug

**Step 5.** After several uses (especially at high pressure) the flanged tube should be replace

### Flangeless Nut (mm)

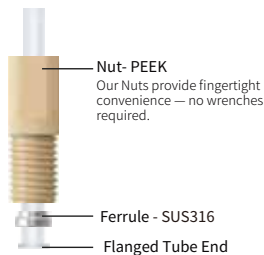


**WF10C-40K**  
For 1.60D tube

### Ferrule(mm)



**KCF-016-SUS316**  
For 1.6mm OD tube



※ Make sure the ferrule is oriented correctly! The narrow end of the ferrule should towards the nut.

※ Flange the tubing with exclusive flange tools, flanged Tube End ≤ Φ2.5mm

※ Tube flanging service is available

### Related Products

▶ Please refer to page 69-70 FEP/PTFE Tube to achieve connection with rigid tube

SKU	Model (ID*OD)	Note
1005040001	TFLG00001 (0.8*1.6)	FEP Transparent

SKU	Model No.	Thread	Tube OD	Pull-off Strength	Rapture pressure	Pressure Rating	Material
WF10C							
1011140023	WF10C-40K * KCF-016SUS316	6-40UNF	1.6mm OD	1.72 kgf	8.27 Mpa	5.79 Mpa	PEEK natural SUS316 stainless steel



## Ultra Mini PEEK Flangeless Fitting — three-piece set

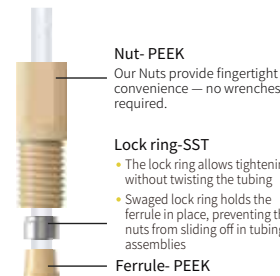
- ◆ Standard fittings with straight threads, which are tool-free and durable. Simply slide the nut and ferrule on the tube, screwing them into the tube. Need to use with PEEK ferrule.
- ◆ With stainless steel sleeve, the rigid pipe does not follow the rotation during screwing flangeless nut. Effective elimination of loose fittings in the tube caused by twisting, can be tighten even when vibrating.
- ◆ High pressure fittings, ideal for pre-assembled tubing and where disconnections are often required
- ◆ Long-term working temperature range -80°C~+220°C
- ◆ Used for standard rigid tubing OD 1.6mm, easy and fast installation.
- ◆ Thread: 6-40UNF

### Application Note

**Step 1.** Slide the PEEK nut, followed by the 316 SST sleeve and ETFE ferrule, at least 3/16" (4.7625mm) from the end of clean cut tubing

**Step 2.** Insert the assembly into the receiving port, pushing the tubing into the port until it bottoms out

**Step 3.** Finger tighten the fittings into the port until snug



※ Make sure the locking ring is oriented correctly! The flattened end of the ring should face towards the nut with the narrow end of the ferrule towards the ring.

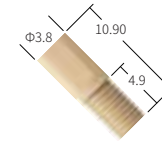
### Related Products

▶ Please refer to page 69-70 FEP/PTFE Tube to achieve connection with rigid tube

SKU	Model (ID*OD)	Note
1005040001	TFLG00001 (0.8*1.6)	FEP Transparent

SKU	Model No.	Thread	Tube OD	Pull-off Strength	Rapture pressure	Pressure Rating	Material
WF10C							
1011010091	WF10C-40K * YES-016K * KCF-023SUS316	6-40UNF	1.6mm OD	2.75kgf	7.70 Mpa	4.79 Mpa	PEEK natural*PEEK natural*SUS316 stainless steel

### Nut(mm)



**WF10C-40K**  
For 1.60D tube

### Lock Ring(mm)

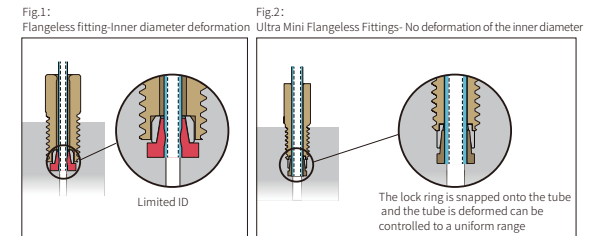


**KCF-023-SUS316**  
For 1.6mm OD tube

### Ferrule(mm)



**YES-016K**  
For 1.6mm OD tube





## PEEK Big Bore Flangeless Fitting — two-piece set

- ◆ Standard fittings with straight threads, which are tool-free and durable. Simply slip the nut and ferrule on the tube, screwing them into the tube. Need to use with ETFE ferrule.
- ◆ CUT (Continuous Use Temperature): -80°C~+220°C
- ◆ Used for standard rigid tubing OD 4.8/6.4 mm, easy and fast installation.
- ◆ Thread: 5/16-24UNF、1/2-20UNF

### ★ Application Note

**Step 1.** Slide the PEEK nut, followed by the ETFE ferrule, at least 3/16"(4.7625mm) from the end of clean cut tubing

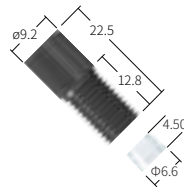
**Step 2.** Insert the assembly into the receiving port, pushing the tubing into the port until it bottoms out

**Step 3.** Finger tighten the fittings into the port until snug

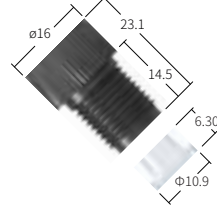
**Step 4.** After several uses (especially at high pressure) the ferrules should be replaced



※ Make sure the ferrule is oriented correctly! The narrow end of the ferrule should towards the nut.



**WD06B-5/16-24-K-black**  
PEEK Flangeless Nut  
**YK-048-F**  
ETFE Ferrule  
For 4.8mm O tube



**WD06B-1/2-20-K-black**  
PEEK Flangeless Nut  
**YK-064-F**  
ETFE Ferrule  
For 6.4mm OD tube

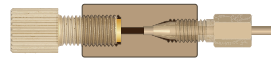
SKU	Model No.	Thread	Tube OD	Pull-off Strength	Rapture pressure	Pressure Rating	Material
PEEK Big Bore Flangeless Fitting							
1011010093	WD06B-24K-black * YK-048F	5/16-24UNF	4.8mm OD	7.27 kgf	5.65 Mpa	3.96 Mpa	PEEK black*ETFE natural
1011010094	WD06B-20K-black * YK-064F	1/2-20UNF	6.4mm OD	11.89 kgf	4.37 Mpa	3.06 Mpa	PEEK black*ETFE natural



## PEEK Female Thread Straight Adapter

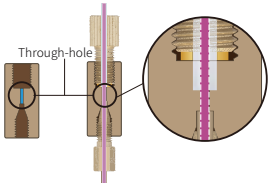
- ◆ Connecting fittings with the same or different threads together with rigid tube connection system, connection without leakage can be achieved
- ◆ Long-term working temperature range -100°C~+250°C
- ◆ Suitable for standard 10-32UNF conical fittings or 1/4-28UNF flat bottom threaded fittings

### ★ Application Note



※ 8mm 1/4-28UNF female thread  
6.5mm 10-32UNF female thread

※ No dead volume docking can be achieved when the diameter of the flow path is the same as the inner diameter of the tube

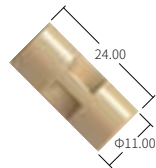


※ The wetted liquid volume is shown in the figure for the volume of the threaded port connection channel

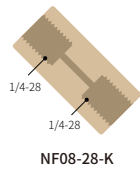
### 🔗 Related Products

▶ Please refer to this table for matching PEEK fittings and tubes

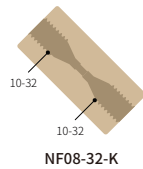
	thread	Page
PEEK flanged fittings- two pieces	1/4-28UNF	09
PEEK flangeless fittings- two pieces	1/4-28UNF	11
PEEK flangeless fittings- three pieces	1/4-28UNF	13
PEEK one-piece hand tightening fittings	10-32UNF	15
PEEK hand tightening fittings - two pieces	10-32UNF	16
PEEK capillary tube		68
FEP tube		69
PTFE tube		70



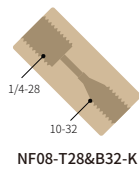
Unit: mm



NF08-28-K



NF08-32-K



NF08-T28&B32-K

SKU	Model No	Thread	Flow Passage Diameter	Wetted liquid volume	Pull-off Strength	Rapture pressure	Pressure Rating	Material
<b>NF08-28-K</b>								
101110001	NF08-28-K(0.8)	1/4-28UNF	0.8 mm	4.02 mm <sup>3</sup>	1.75 kgf	5.46 Mpa	3.80 Mpa	PEEK natural
101110002	NF08-28-K(1.25)	1/4-28UNF	1.25 mm	9.81 mm <sup>3</sup>	1.79 kgf	5.41 Mpa	3.62 Mpa	PEEK natural
101110003	NF08-28-K(2.0)	1/4-28UNF	2.0 mm	25.13 mm <sup>3</sup>	1.97 kgf	5.46 Mpa	3.49 Mpa	PEEK natural
<b>NF08-32-K</b>								
101110004	NF08-32-K(0.8)	10-32UNF	0.8 mm	6.97 mm <sup>3</sup>	5.49 kgf	12.11 Mpa	8.50 Mpa	PEEK natural
101110005	NF08-32-K(1.25)	10-32UNF	1.25 mm	8.33 mm <sup>3</sup>	5.29 kgf	11.47 Mpa	8.00 Mpa	PEEK natural
<b>NF08-T28&amp;B32-K</b>								
101110001	NF08-T28&B32-K(0.8)	1/4-28UNF & 10-32UNF	0.8 mm	5.5 mm <sup>3</sup>	1.86 kgf	5.67 Mpa	3.66 Mpa	PEEK natural
101110002	NF08-T28&B32-K(1.25)	1/4-28UNF & 10-32UNF	1.25 mm	9.08 mm <sup>3</sup>	1.79 kgf	5.54 Mpa	3.90 Mpa	PEEK natural

Note: If you need specific model other than above specification, please contact us for customization.

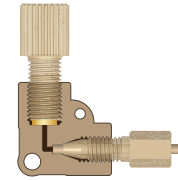


## PEEK Female Thread Elbow Adapter

- ◆ Connecting fittings with the same or different threads together with rigid tube connection system, connection without leakage can be achieved
- ◆ Long-term working temperature range -100°C~+250°C
- ◆ Suitable for standard 10-32UNF conical fittings or 1/4-28UNF flat bottom threaded fittings

### ★ Application Note

※ 8mm 1/4-28UNF female thread  
6.5mm 10-32UNF female thread



### 🔗 Related Products

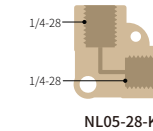
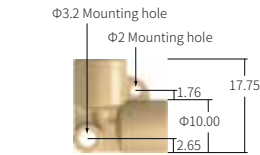
▶ Please refer to this table for matching PEEK fittings and tubes

	thread	Page
PEEK flanged fittings- two pieces	1/4-28UNF	09
PEEK flangeless fittings- two pieces	1/4-28UNF	11
PEEK flangeless fittings- three pieces	1/4-28UNF	13
PEEK one-piece hand tightening fittings	10-32UNF	15
PEEK hand tightening fittings - two pieces	10-32UNF	16
PEEK capillary tube		68
FEP tube		69
PTFE tube		70

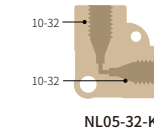
SKU	Model No	Thread	Flow Passage Diameter	Wetted liquid volume	Material
<b>NL05-28-K</b>					
1011060001	NL05-28-K(0.8)	1/4-28UNF	0.8 mm	4.7 mm <sup>3</sup>	PEEK natural
1011060002	NL05-28-K(1.25)	1/4-28UNF	1.25 mm	11.3 mm <sup>3</sup>	PEEK natural
1011060003	NL05-28-K(2.0)	1/4-28UNF	2.0 mm	28.5 mm <sup>3</sup>	PEEK natural
<b>NL05-32-K</b>					
1011060004	NL05-32-K(0.8)	10-32UNF	0.8 mm	7.65 mm <sup>3</sup>	PEEK natural
1011060005	NL05-32-K(1.25)	10-32UNF	1.25 mm	9.85 mm <sup>3</sup>	PEEK natural
<b>NL05-T28&amp;B32-K</b>					
1011060006	NL05-T28&B32-K(0.8)	1/4-28UNF & 10-32UNF	0.8 mm	6.17 mm <sup>3</sup>	PEEK natural
1011060007	NL05-T28&B32-K(1.25)	1/4-28UNF & 10-32UNF	1.25 mm	10.6 mm <sup>3</sup>	PEEK natural

Note: If you need specific model other than above specification, please contact us for customization.

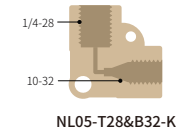
Unit: mm



NL05-28-K



NL05-32-K



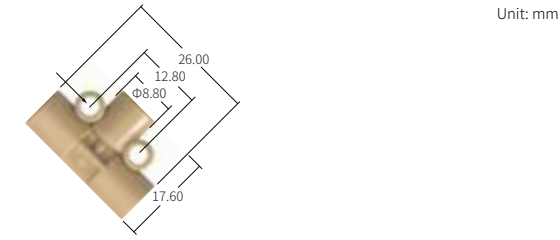
NL05-T28&B32-K

## PEEK Female Thread T Adapter

- ◆ Designed to divide or gather two fluids together; ideal for pre-assembled tubing
- ◆ Effective elimination of loose fittings in the tube caused by twisting, can be tighten even when vibrating.
- ◆ Long-term working temperature range -100°C~+250°C
- ◆ Suitable for standard 10-32UNF conical fittings or 1/4-28UNF flat bottom threaded fittings

### Application Note

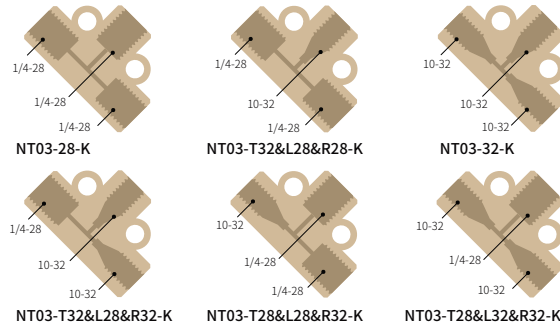
※ 8mm 1/4-28UNF female thread  
6.5mm 10-32UNF female thread



### Related Products

▶ Please refer to this table for matching PEEK fittings and tubes

	thread	Page
PEEK flanged fittings- two pieces	1/4-28UNF	09
PEEK flangeless fittings- two pieces	1/4-28UNF	11
PEEK flangeless fittings- three pieces	1/4-28UNF	13
PEEK one-piece hand tightening fittings	10-32UNF	15
PEEK hand tightening fittings- two pieces	10-32UNF	16
PEEK capillary tube		68
FEP tube		69
PTFE tube		70



SKU	Model No	Thread	Flow Passage Diameter	Wetted liquid volume	Material
<b>NT03-28-K</b>					
1011120001	NT03-28-K(0.8)	1/4-28UNF(*3)	0.8 mm	7.47 mm <sup>3</sup>	PEEK natural
1011120002	NT03-28-K(1.25)	1/4-28UNF(*3)	1.25 mm	18 mm <sup>3</sup>	PEEK natural
1011120003	NT03-28-K(2.0)	1/4-28UNF(*3)	2.0 mm	45.1 mm <sup>3</sup>	PEEK natural
<b>NT03-T32&amp;L28&amp;R28-K</b>					
1011120004	NT03-T32&L28&R28-K(0.8)	1/4-28UNF(*2) & 10-32UNF	0.8 mm	8.95 mm <sup>3</sup>	PEEK natural
1011120005	NT03-T32&L28&R28-K(1.25)	1/4-28UNF(*2) & 10-32UNF	1.25 mm	17.3 mm <sup>3</sup>	PEEK natural
<b>NT03-32-K</b>					
1011120006	NT03-32-K(0.8)	10-32UNF(*3)	0.8 mm	12.18mm <sup>3</sup>	PEEK natural
1011120007	NT03-32-K(1.25)	10-32UNF(*3)	1.25 mm	16.38mm <sup>3</sup>	PEEK natural
<b>NT03-T32&amp;L28&amp;R32-K</b>					
1011120008	NT03-T32&L28&R32-K(0.8)	1/4-28UNF & 10-32UNF(*2)	0.8 mm	8.95 mm <sup>3</sup>	PEEK natural
1011120009	NT03-T32&L28&R32-K(1.25)	1/4-28UNF & 10-32UNF(*2)	1.25 mm	17.3 mm <sup>3</sup>	PEEK natural
<b>NT03-T28&amp;L28&amp;R32-K</b>					
1011120010	NT03-T28&L28&R32-K(0.8)	1/4-28UNF(*2) & 10-32UNF	0.8 mm	10.58mm <sup>3</sup>	PEEK natural
1011120011	NT03-T28&L28&R32-K(1.25)	1/4-28UNF(*2) & 10-32UNF	1.25 mm	16.84mm <sup>3</sup>	PEEK natural
<b>NT03-T28&amp;L32&amp;R32-K</b>					
1011120012	NT03-T28&L32&R32-K(0.8)	1/4-28UNF & 10-32UNF(*2)	0.8 mm	10.4 mm <sup>3</sup>	PEEK natural
1011120013	NT03-T28&L32&R32-K(1.25)	1/4-28UNF & 10-32UNF(*2)	1.25 mm	16.6 mm <sup>3</sup>	PEEK natural

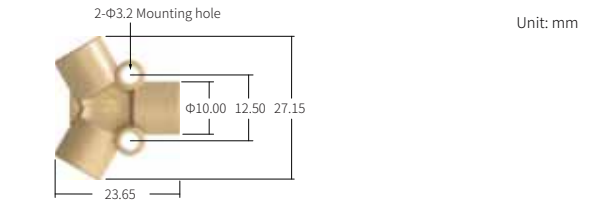
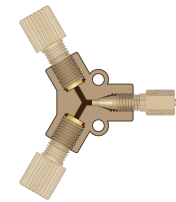
Note: If you need specific model other than above specification, please contact us for customization.

## PEEK Female Thread Y Adapter

- ◆ Designed to divide or gather two fluids together; ideal for pre-assembled tubing
- ◆ Y-connection geometry reduces turbulence, reduces baseline noise, increases sensitivity, and improves analysis results
- ◆ Long-term working temperature range -100°C~+250°C
- ◆ Suitable for standard 10-32UNF conical fittings or 1/4-28UNF flat bottom threaded fittings

### Application Note

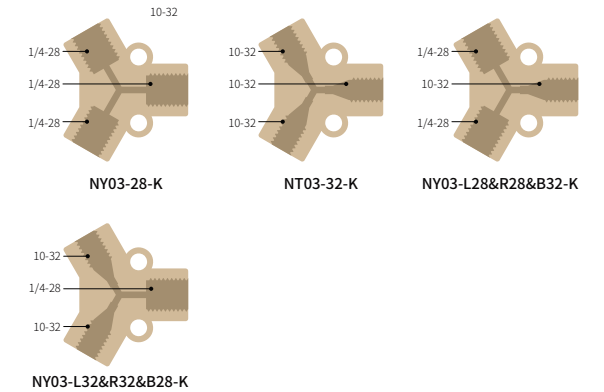
※ 8mm 1/4-28UNF female thread  
6.5mm 10-32UNF female thread



### Related Products

▶ Please refer to this table for matching PEEK fittings and tubes

	thread	Page
PEEK flanged fittings- two pieces	1/4-28UNF	09
PEEK flangeless fittings- two pieces	1/4-28UNF	11
PEEK flangeless fittings- three pieces	1/4-28UNF	13
PEEK one-piece hand tightening fittings	10-32UNF	15
PEEK hand tightening fittings- two pieces	10-32UNF	16
PEEK capillary tube		68
FEP tube		69
PTFE tube		70



SKU	Model No	Thread	Flow Passage Diameter	Wetted liquid volume	Material
<b>NY03-28-K</b>					
1011080001	NY03-28-K(0.8)	1/4-28UNF(*3)	0.8 mm	7.39 mm <sup>3</sup>	PEEK natural
1011080002	NY03-28-K(1.25)	1/4-28UNF(*3)	1.25 mm	17.84mm <sup>3</sup>	PEEK natural
1011080003	NY03-28-K(2.0)	1/4-28UNF(*3)	2.0 mm	44.81mm <sup>3</sup>	PEEK natural
<b>NT03-32-K</b>					
1011080004	NT03-32-K(0.8)	10-32UNF(*3)	0.8 mm	11.89mm <sup>3</sup>	PEEK natural
1011080005	NT03-32-K(1.25)	10-32UNF(*3)	1.25 mm	15.69mm <sup>3</sup>	PEEK natural
<b>NY03-L28&amp;R28&amp;B32-K</b>					
1011080006	NY03-L28&R28&B32-K(0.8)	1/4-28UNF(*2) & 10-32UNF	0.8 mm	8.89 mm <sup>3</sup>	PEEK natural
1011080007	NY03-L28&R28&B32-K(1.25)	1/4-28UNF(*2) & 10-32UNF	1.25 mm	17.13mm <sup>3</sup>	PEEK natural
<b>NY03-L32&amp;R32&amp;B28-K</b>					
1011080008	NY03-L32&R32&B28-K(0.8)	1/4-28UNF & 10-32UNF(*2)	0.8 mm	10.39mm <sup>3</sup>	PEEK natural
1011080009	NY03-L32&R32&B28-K(1.25)	1/4-28UNF & 10-32UNF(*2)	1.25 mm	16.41mm <sup>3</sup>	PEEK natural

Note: If you need specific model other than above specification, please contact us for customization.

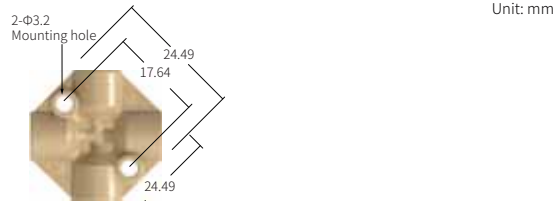
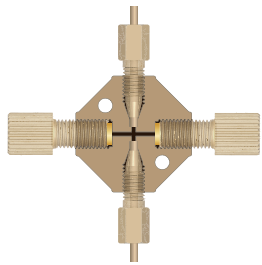


## PEEK Female Thread Cross Adapter

- ◆ Designed to divide or gather two fluids together; ideal for pre-assembled tubing
- ◆ Y-connection geometry reduces turbulence, reduces baseline noise, increases sensitivity, and improves analysis results
- ◆ Long-term working temperature range -100°C~+250°C
- ◆ Suitable for standard 10-32UNF conical fittings or 1/4-28UNF flat bottom threaded fittings

### Application Note

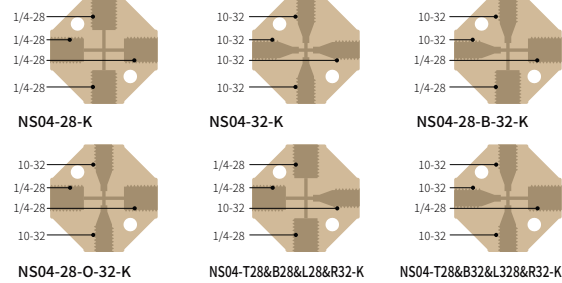
※ 8mm 1/4-28UNF female thread  
6.5mm 10-32UNF female thread



### Related Products

▶ Please refer to this table for matching PEEK fittings and tubes

	thread	Page
PEEK flanged fittings- two pieces	1/4-28UNF	09
PEEK flangeless fittings- two pieces	1/4-28UNF	11
PEEK flangeless fittings- three pieces	1/4-28UNF	13
PEEK one-piece hand tightening fittings	10-32UNF	15
PEEK hand tightening fittings - two pieces	10-32UNF	16
PEEK capillary tube		68
FEP tube		69
PTFE tube		70



SKU	Model No	Thread	Flow Passage Diameter	Wetted liquid volume	Material
<b>NS04-28-K</b>					
1011090001	NS04-28-K(0.8)	1/4-28UNF(*4)	0.8 mm	9.21 mm <sup>3</sup>	PEEK natural
1011090002	NS04-28-K(1.25)	1/4-28UNF(*4)	1.25 mm	22.01 mm <sup>3</sup>	PEEK natural
1011090003	NS04-28-K(2.0)	1/4-28UNF(*4)	2.0 mm	54.36 mm <sup>3</sup>	PEEK natural
<b>NS04-32-K</b>					
1011090004	NS04-32-K(0.8)	10-32UNF(*4)	0.8 mm	15.21 mm <sup>3</sup>	PEEK natural
1011090005	NS04-32-K(1.25)	10-32UNF(*4)	1.25 mm	19.14 mm <sup>3</sup>	PEEK natural
<b>NS04-28-B-32-K</b>					
1011090006	NS04-28-B-32-K(0.8)	1/4-28UNF(*2) & 10-32UNF(*2)	0.8 mm	12.21 mm <sup>3</sup>	PEEK natural
1011090007	NS04-28-B-32-K(1.25)	1/4-28UNF(*2) & 10-32UNF(*2)	1.25 mm	20.58 mm <sup>3</sup>	PEEK natural
<b>NS04-28-O-32-K</b>					
1011090008	NS04-28-O-32-K(0.8)	1/4-28UNF(*2) & 10-32UNF(*2)	0.8 mm	23.84 mm <sup>3</sup>	PEEK natural
1011090009	NS04-28-O-32-K(1.25)	1/4-28UNF(*2) & 10-32UNF(*2)	1.25 mm	20.58 mm <sup>3</sup>	PEEK natural
<b>NS04-T28&amp;B28&amp;L28&amp;R32-K</b>					
1011090010	NS04-T28&B28&L28&R32-K(0.8)	1/4-28UNF(*3) & 10-32UNF	0.8 mm	10.71 mm <sup>3</sup>	PEEK natural
1011090011	NS04-T28&B28&L28&R32-K(1.25)	1/4-28UNF(*3) & 10-32UNF	1.25 mm	21.3 mm <sup>3</sup>	PEEK natural
<b>NS04-T28&amp;B32&amp;L328&amp;R32-K</b>					
1011090012	NS04-T28&B32&L328&R32-K(0.8)	1/4-28UNF & 10-32UNF(*3)	0.8 mm	13.71 mm <sup>3</sup>	PEEK natural
1011090013	NS04-T28&B32&L328&R32-K(1.25)	1/4-28UNF & 10-32UNF(*3)	1.25 mm	19.86 mm <sup>3</sup>	PEEK natural

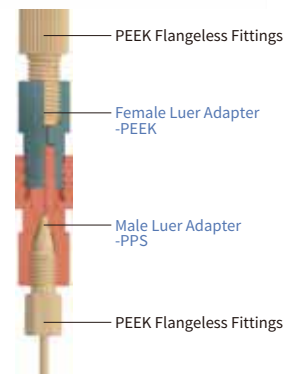
Note: If you need specific model other than above specification, please contact us for customization.

## PEEK Female Thread Luer Adapter

- ◆ Designed to adapt luer adapters to 10-32 UNF or 1/4-28 UNF threaded ports
- ◆ Long-term working temperature range -100°C~+250°C
- ◆ Suitable for standard 10-32UNF conical fittings or 1/4-28UNF flat bottom threaded fittings



### Application Note



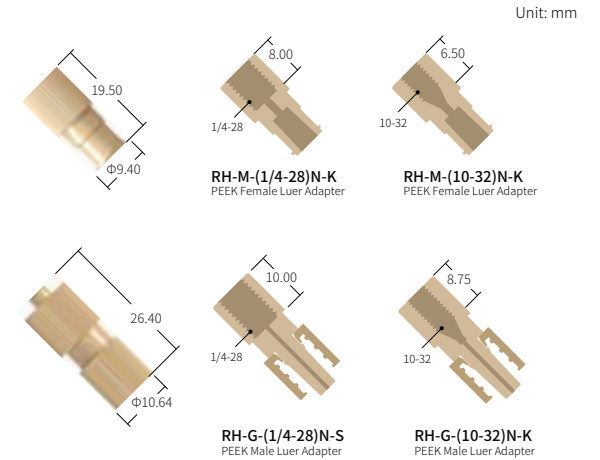
### Related Products

▶ Please refer to this table for matching PEEK fittings and tubes

	thread	Page
PEEK flanged fittings- two pieces	1/4-28UNF	09
PEEK flangeless fittings- two pieces	1/4-28UNF	11
PEEK flangeless fittings- three pieces	1/4-28UNF	13
PEEK one-piece hand tightening fittings	10-32UNF	15
PEEK hand tightening fittings - two pieces	10-32UNF	16
PEEK capillary tube		68
FEP tube		69
PTFE tube		70

SKU	Model No	Thread	Flow Passage Diameter	Pull-off Strength	Rapture pressure	Pressure Rating	Material
<b>RH-M</b>							
1011130001	RH-M-(1/4-28)N-K	1/4-28UNF	—	—	0.62 Mpa	0.40 Mpa	PEEK natural
1011130002	RH-M-(10-32)N-K	10-32UNF	—	—	0.67 Mpa	0.40 Mpa	PEEK natural
<b>RH-G</b>							
1011130003	RH-G-(1/4-28) N-K(0.8)	1/4-28UNF	0.8 mm				PEEK natural
1011130005	RH-G-(1/4-28) N-K(1.2)	1/4-28UNF	1.2mm				PEEK natural
1011130004	RH-G-(10-32) N-K(0.8)	10-32UNF	0.8 mm				PEEK natural
1011130006	RH-G-(10-32) N-K(1.2)	10-32UNF	1.2mm				PEEK natural
1008050033	RH-G-(1/4-28) N-S(0.8)	1/4-28UNF	0.8 mm				PPS black
1008050044	RH-G-(1/4-28) N-S(1.2)	1/4-28UNF	1.2mm				PPS black
1008050034	RH-G-(10-32) N-S(0.8)	10-32UNF	0.8 mm				PPS black
1008050045	RH-G-(10-32) N-S(1.2)	10-32UNF	1.2mm				PPS black

Note: If you need specific model other than above specification, please contact us for customization.

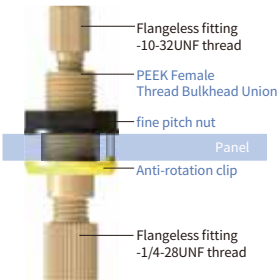




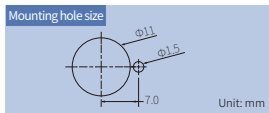
## PEEK Female Thread Bulkhead Union

- ◆ Designed to pass through the equipment housing and connect the internal tubing to the outside
- ◆ Through-panel union with male thread M10\*1, with PPS nut and PP anti-rotation clip to tighten the fittings, installation requires advance drilling of the panel; multi-color anti-rotation clip is for easy distinguishments of the flow path
- ◆ Long-term working temperature range -100°C~+250°C
- ◆ Suitable for standard 10-32UNF conical fittings or 1/4-28UNF flat bottom threaded fittings

### ★ Application Note



※ 8mm 1/4-28UNF female thread  
6.5mm 10-32UNF female thread  
※ Panel thickness ≤ 12.5mm



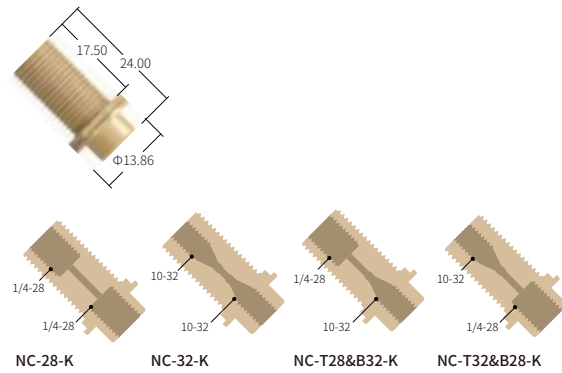
### Related Products

► It is recommended to purchase a wrench (PPS material) to tighten the hexagonal nut.

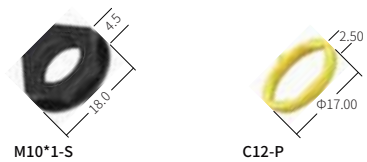


SKU	Model	Note
1006090016	15mm-S	Bulkhead nut wrench

### PEEK Female Thread Bulkhead Union(mm)



### fine pitch nut (mm) Anti-rotation clip(mm)



SKU	Model No.	Thread	Flow Passage Diameter	Wetted liquid volume	Material
<b>NC-28-K</b>					
1011070010	NC-28-K(0.8)	* M10*1-S * C12-P red	0.8mm	4mm <sup>3</sup>	PEEK natural/PPS black/PP red
1011070011	NC-28-K(0.8)	* M10*1-S * C12-P deep dark	0.8mm	4mm <sup>3</sup>	PEEK natural/PPS black/PP deep dark
1011070012	NC-28-K(0.8)	* M10*1-S * C12-P lemon yellow	0.8mm	4mm <sup>3</sup>	PEEK natural/PPS black/PP lemon yellow
1011070013	NC-28-K(0.8)	* M10*1-S * C12-P grass green	0.8mm	4mm <sup>3</sup>	PEEK natural/PPS black/PP grass green
1011070014	NC-28-K(0.8)	* M10*1-S * C12-P beige blue	0.8mm	4mm <sup>3</sup>	PEEK natural/PPS black/PP beige blue
1011070015	NC-28-K(0.8)	* M10*1-S * C12-P dark blue	0.8mm	4mm <sup>3</sup>	PEEK natural/PPS black/PP dark blue
1011070016	NC-28-K(0.8)	* M10*1-S * C12-P deep purple	0.8mm	4mm <sup>3</sup>	PEEK natural/PPS black/PP deep purple

SKU	Model No.	Thread	Flow Passage Diameter	Wetted liquid volume	Material
<b>NC-28-K</b>					
1011070017	NC-28-K(1.25)	* M10*1-S * C12-P red	1.25mm	9.82 mm <sup>3</sup>	PEEK natural/PPS black/PP red
1011070018	NC-28-K(1.25)	* M10*1-S * C12-P deep dark	1.25mm	9.82 mm <sup>3</sup>	PEEK natural/PPS black/PP deep dark
1011070019	NC-28-K(1.25)	* M10*1-S * C12-P lemon yellow	1.25mm	9.82 mm <sup>3</sup>	PEEK natural/PPS black/PP lemon yellow
1011070020	NC-28-K(1.25)	* M10*1-S * C12-P grass green	1.25mm	9.82 mm <sup>3</sup>	PEEK natural/PPS black/PP grass green
1011070021	NC-28-K(1.25)	* M10*1-S * C12-P beige blue	1.25mm	9.82 mm <sup>3</sup>	PEEK natural/PPS black/PP beige blue
1011070022	NC-28-K(1.25)	* M10*1-S * C12-P dark blue	1.25mm	9.82 mm <sup>3</sup>	PEEK natural/PPS black/PP dark blue
1011070023	NC-28-K(1.25)	* M10*1-S * C12-P deep purple	1.25mm	9.82 mm <sup>3</sup>	PEEK natural/PPS black/PP deep purple
1011070024	NC-28-K(2.0)	* M10*1-S * C12-P red	2.0mm	25.13mm <sup>3</sup>	PEEK natural/PPS black/PP red
1011070025	NC-28-K(2.0)	* M10*1-S * C12-P deep dark	2.0mm	25.13mm <sup>3</sup>	PEEK natural/PPS black/PP deep dark
1011070026	NC-28-K(2.0)	* M10*1-S * C12-P lemon yellow	2.0mm	25.13mm <sup>3</sup>	PEEK natural/PPS black/PP lemon yellow
1011070027	NC-28-K(2.0)	* M10*1-S * C12-P grass green	2.0mm	25.13mm <sup>3</sup>	PEEK natural/PPS black/PP grass green
1011070028	NC-28-K(2.0)	* M10*1-S * C12-P beige blue	2.0mm	25.13mm <sup>3</sup>	PEEK natural/PPS black/PP beige blue
1011070029	NC-28-K(2.0)	* M10*1-S * C12-P dark blue	2.0mm	25.13mm <sup>3</sup>	PEEK natural/PPS black/PP dark blue
1011070030	NC-28-K(2.0)	* M10*1-S * C12-P deep purple	2.0mm	25.13mm <sup>3</sup>	PEEK natural/PPS black/PP deep purple
<b>NC-32-K</b>					
1011070031	NC-32-K(0.8)	* M10*1-S * C12-P red	0.8mm	6.97mm <sup>3</sup>	PEEK natural/PPS black/PP red
1011070032	NC-32-K(0.8)	* M10*1-S * C12-P deep dark	0.8mm	6.97mm <sup>3</sup>	PEEK natural/PPS black/PP deep dark
1011070033	NC-32-K(0.8)	* M10*1-S * C12-P lemon yellow	0.8mm	6.97mm <sup>3</sup>	PEEK natural/PPS black/PP lemon yellow
1011070034	NC-32-K(0.8)	* M10*1-S * C12-P grass green	0.8mm	6.97mm <sup>3</sup>	PEEK natural/PPS black/PP grass green
1011070035	NC-32-K(0.8)	* M10*1-S * C12-P beige blue	0.8mm	6.97mm <sup>3</sup>	PEEK natural/PPS black/PP beige blue
1011070036	NC-32-K(0.8)	* M10*1-S * C12-P dark blue	0.8mm	6.97mm <sup>3</sup>	PEEK natural/PPS black/PP dark blue
1011070037	NC-32-K(0.8)	* M10*1-S * C12-P deep purple	0.8mm	6.97mm <sup>3</sup>	PEEK natural/PPS black/PP deep purple
1011070038	NC-32-K(1.25)	* M10*1-S * C12-P red	1.25mm	8.33mm <sup>3</sup>	PEEK natural/PPS black/PP red
1011070039	NC-32-K(1.25)	* M10*1-S * C12-P deep dark	1.25mm	8.33mm <sup>3</sup>	PEEK natural/PPS black/PP deep dark
1011070040	NC-32-K(1.25)	* M10*1-S * C12-P lemon yellow	1.25mm	8.33mm <sup>3</sup>	PEEK natural/PPS black/PP lemon yellow
1011070041	NC-32-K(1.25)	* M10*1-S * C12-P grass green	1.25mm	8.33mm <sup>3</sup>	PEEK natural/PPS black/PP grass green
1011070042	NC-32-K(1.25)	* M10*1-S * C12-P beige blue	1.25mm	8.33mm <sup>3</sup>	PEEK natural/PPS black/PP beige blue
1011070043	NC-32-K(1.25)	* M10*1-S * C12-P dark blue	1.25mm	8.33mm <sup>3</sup>	PEEK natural/PPS black/PP dark blue
1011070044	NC-32-K(1.25)	* M10*1-S * C12-P deep purple	1.25mm	8.33mm <sup>3</sup>	PEEK natural/PPS black/PP deep purple
<b>NC-T28&amp;B32-K</b>					
1011070045	NC-T28&B32-K(0.8)	* M10*1-S * C12-P red	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP red
1011070046	NC-T28&B32-K(0.8)	* M10*1-S * C12-P deep dark	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP deep dark
1011070047	NC-T28&B32-K(0.8)	* M10*1-S * C12-P lemon yellow	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP lemon yellow
1011070048	NC-T28&B32-K(0.8)	* M10*1-S * C12-P grass green	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP grass green
1011070049	NC-T28&B32-K(0.8)	* M10*1-S * C12-P beige blue	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP beige blue
1011070050	NC-T28&B32-K(0.8)	* M10*1-S * C12-P dark blue	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP dark blue
1011070051	NC-T28&B32-K(0.8)	* M10*1-S * C12-P deep purple	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP deep purple
1011070052	NC-T28&B32-K(1.25)	* M10*1-S * C12-P red	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP red
1011070053	NC-T28&B32-K(1.25)	* M10*1-S * C12-P deep dark	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP deep dark
1011070054	NC-T28&B32-K(1.25)	* M10*1-S * C12-P lemon yellow	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP lemon yellow
1011070055	NC-T28&B32-K(1.25)	* M10*1-S * C12-P grass green	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP grass green
1011070056	NC-T28&B32-K(1.25)	* M10*1-S * C12-P beige blue	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP beige blue
1011070057	NC-T28&B32-K(1.25)	* M10*1-S * C12-P dark blue	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP dark blue
1011070058	NC-T28&B32-K(1.25)	* M10*1-S * C12-P deep purple	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP deep purple
<b>NC-T28&amp;B32-K</b>					
1011070059	NC-T32&B28-K(0.8)	* M10*1-S * C12-P red	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP red
1011070060	NC-T32&B28-K(0.8)	* M10*1-S * C12-P deep dark	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP deep dark
1011070061	NC-T32&B28-K(0.8)	* M10*1-S * C12-P lemon yellow	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP lemon yellow
1011070062	NC-T32&B28-K(0.8)	* M10*1-S * C12-P grass green	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP grass green
1011070063	NC-T32&B28-K(0.8)	* M10*1-S * C12-P beige blue	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP beige blue
1011070064	NC-T32&B28-K(0.8)	* M10*1-S * C12-P dark blue	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP dark blue
1011070065	NC-T32&B28-K(0.8)	* M10*1-S * C12-P deep purple	0.8mm	5.5 mm <sup>3</sup>	PEEK natural/PPS black/PP deep purple
1011070066	NC-T32&B28-K(1.25)	* M10*1-S * C12-P red	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP red
1011070067	NC-T32&B28-K(1.25)	* M10*1-S * C12-P deep dark	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP deep dark
1011070068	NC-T32&B28-K(1.25)	* M10*1-S * C12-P lemon yellow	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP lemon yellow
1011070069	NC-T32&B28-K(1.25)	* M10*1-S * C12-P grass green	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP grass green
1011070070	NC-T32&B28-K(1.25)	* M10*1-S * C12-P beige blue	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP beige blue
1011070071	NC-T32&B28-K(1.25)	* M10*1-S * C12-P dark blue	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP dark blue
1011070072	NC-T32&B28-K(1.25)	* M10*1-S * C12-P deep purple	1.25mm	9.08mm <sup>3</sup>	PEEK natural/PPS black/PP deep purple

Note: If you need specific model other than above specification, please contact us for customization.

PEEK Fitting

Threaded Fitting

Barb-to-Thread Adapter

Barbed Connector

Tubing

PEEK Fitting

Threaded Fitting

Barb-to-Thread Adapter

Barbed Connector

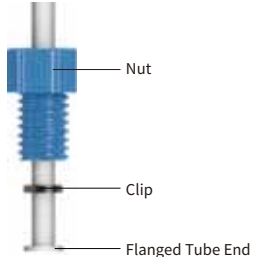
Tubing





Application Note

- Step 1.** Flange the tubing with exclusive flange tools, tubing can be flanged one end or both two ends, depending on specific application requirements
- Step 2.** When tubing flanged in two ends, 2 pieces clips and 2 pieces nuts need to be slid into the tubing before both ends flanged; when tubing flanged in one end, 1 piece clip and 1 piece nut can be slid into tubing before or after the one end flanged.
- Step 3.** Insert the assembly into the receiving port, pushing the tubing into the port until it bottoms out
- Step 4.** Finger tighten the fittings into the port until snug
- Step 5.** After several uses (especially at high pressure) the flanged tube should be replaced



※ Flange the tubing with exclusive flange tools, flanged Tube End ≤ Φ5mm  
 ※ Runze can provide you with tube flanging services

Related Products

▶ Please refer to page 51-52 FEP/PTFE Tube to achieve connection with rigid tube

SKU	Model (ID*OD)	Note
1005040001	TFLG00001 (0.8*1.6)	FEP Transparent
1005040002	TFLG00002 (1*2)	FEP Transparent
1005040003	TFLG00003 (1.5*2.5)	FEP Transparent
1005040004	TFLG00004 (2*3)	FEP Transparent
1005040005	TFLG00005 (2.175*3.175)	FEP Transparent

▶ It is recommended to purchase the handtighten tooling. The handle is designed to be longer and larger, with a larger force area, it is easier to tighten fittings in tight spaces



SKU	Model No.	Note
1006010256	SNZGYX	Usable for WF10A, WD10A flangeless fittings

Flanged Fitting —two-piece set

- ◆ The fitting requires a flat flanged end and a gasket/clip located between the flanged tube and the flat bottom fitting. Sealing achieved through tightening the nut, by deforming the bottom of the tube, the bottom of the tube then compressed to form an airtight rigid tube connection system. The wetted part is the tubing itself: a matching washer(gasket) is required.
- ◆ Resistant to chemicals and organics, including PP, PTFE, PPS and other materials
- ◆ Used for standard rigid tubing OD 1.6/2.0/2.5/3.0/3.2mm, easy and fast installation.
- ◆ Thread: 1/4-28UNF, M6

Nut(mm)

**WF10A** For 1.6/2.0mm OD tube  
**WD10A** For 2.5/3.0/3.2mm OD tube  
**WF03G** For 1.6/2.0mm OD tube  
**WD03G** For 2.5/3.0/3.2mm OD tube

**WF08BL** For 1.6/2.0mm OD tube  
**WD08BL** For 2.5/3.0/3.2mm OD tube  
**WF08B** For 1.6/2.0mm OD tube  
**WD08B** For 2.5/3.0/3.2mm OD tube

**WF05EL** For 1.6/2.0mm OD tube  
**WD05EL** For 2.5/3.0/3.2mm OD tube  
**WF05E** For 1.6/2.0mm OD tube  
**WD05E** For 2.5/3.0/3.2mm OD tube

**WF06CL** For 1.6/2.0mm OD tube  
**WD06CL** For 2.5/3.0/3.2mm OD tube  
**WF06C** For 1.6/2.0mm OD tube  
**WD06C** For 2.5/3.0/3.2mm OD tube

**WF07Y** For 2.5/3.0/3.2mm OD tube  
**WD020A** For 4.0mm OD tube  
**WD06G** For 4.0mm OD tube  
 Note: WF07Y, WD020A and WD06G fitting can be used without ferrule

Clip(mm)

**KC-016-S** 1.6mm OD tube  
**KC-020-S** 2.0mm OD tube  
**KC-025-S** 2.5mm OD tube  
**KC-030-S** 3.0mm OD tube  
**KC-032-S** 3.2mm OD tube

SKU	Model No.	Thread	Tube OD	Material
<b>Nut</b>				
1006010001	WF10A-1/4-28-P	1/4-28UNF	1.6mm/2.0mm OD tube	PP natural
1006010065	WD10A-1/4-28-P	1/4-28UNF	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010009	WF03G-1/4-28-P	1/4-28UNF	1.6mm/2.0mm OD tube	PP natural
1006010073	WD03G-1/4-28-P	1/4-28UNF	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010017	WF08BL-1/4-28-P	1/4-28UNF	1.6mm/2.0mm OD tube	PP natural
1006010081	WD08BL-1/4-28-P	1/4-28UNF	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010025	WF08B-1/4-28-P	1/4-28UNF	1.6mm/2.0mm OD tube	PP natural
1006010089	WD08B-1/4-28-P	1/4-28UNF	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010033	WF05EL-1/4-28-P	1/4-28UNF	1.6mm/2.0mm OD tube	PP natural
1006010097	WD05EL-1/4-28-P	1/4-28UNF	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010041	WF05E-1/4-28-P	1/4-28UNF	1.6mm/2.0mm OD tube	PP natural
1006010105	WD05E-1/4-28-P	1/4-28UNF	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010049	WF06CL-1/4-28-P	1/4-28UNF	1.6mm/2.0mm OD tube	PP natural
1006010113	WD06CL-1/4-28-P	1/4-28UNF	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010057	WF06C-1/4-28-P	1/4-28UNF	1.6mm/2.0mm OD tube	PP natural
1006010121	WD06C-1/4-28-P	1/4-28UNF	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006030001	WF07Y-1/4-28-P	1/4-28UNF	2.5mm/3.0mm/3.2mm OD tube	PP blue
1006010154	WD020A-1/4-28-P	1/4-28UNF	4.0mm OD tube	PP blue
1006010162	WD06G-1/4-28-P	1/4-28UNF	4.0mm OD tube	PP blue
1006010013	WF10A-06-P	M6	1.6mm/2.0mm OD tube	PP natural
1006010061	WD10A-06-P	M6	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010013	WF03G-06-P	M6	1.6mm/2.0mm OD tube	PP natural
1006010021	WD03G-06-P	M6	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010029	WF08BL-06-P	M6	1.6mm/2.0mm OD tube	PP natural
1006010037	WD08BL-06-P	M6	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010045	WF08B-06-P	M6	1.6mm/2.0mm OD tube	PP natural
1006010053	WD08B-06-P	M6	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010061	WF05EL-06-P	M6	1.6mm/2.0mm OD tube	PP natural
1006010077	WD05EL-06-P	M6	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010085	WF05E-06-P	M6	1.6mm/2.0mm OD tube	PP natural
1006010093	WD05E-06-P	M6	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010101	WF06CL-06-P	M6	1.6mm/2.0mm OD tube	PP natural
1006010109	WD06CL-06-P	M6	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010117	WF06C-06-P	M6	1.6mm/2.0mm OD tube	PP natural
1006010125	WD06C-06-P	M6	2.5mm/3.0mm/3.2mm OD tube	PP natural
1006010156	WD020A-06-P	M6	4.0mm OD tube	PP blue
<b>Clip</b>				
1006130001	KC-016-S		1.6mm OD tube	PPS black
1006130002	KC-020-S		2.0mm OD tube	PPS black
1006130003	KC-025-S		2.5mm OD tube	PPS black
1006130004	KC-030-S		3.0mm OD tube	PPS black
1006130005	KC-032-S		3.2mm OD tube	PPS black

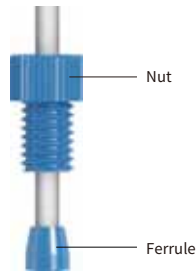
※ Flangeless nuts are also available in PTFE, PPS and POM;





### Application Note

- Step 1.** Slide the nut, followed by the ferrule, at least 3/16" (4.7625mm) from the end of clean cut tubing
- Step 2.** Insert the assembly into the receiving port, pushing the tubing into the port until it bottoms out
- Step 3.** Finger tighten the fittings into the port until snug
- Step 4.** After disassembling, the ferrules should be replaced in next assembly and connection



※ Make sure the ferrule is oriented correctly! The narrow end of the ferrule should towards the nut.

### Related Products

▶ Please refer to page 51-52 FEP/PTFE Tube to achieve connection with rigid tube

SKU	Model (ID*OD)	Note
1005040001	TFLG00001 (0.8*1.6)	FEP Transparent
1005040002	TFLG00002 (1*2)	FEP Transparent
1005040003	TFLG00003 (1.5*2.5)	FEP Transparent
1005040004	TFLG00004 (2*3)	FEP Transparent
1005040005	TFLG00005 (2.175*3.175)	FEP Transparent

▶ It is recommended to purchase the hand-tighten tooling. The handle is designed to be longer and larger, with a larger force area, it is easier to tighten fittings in tight spaces

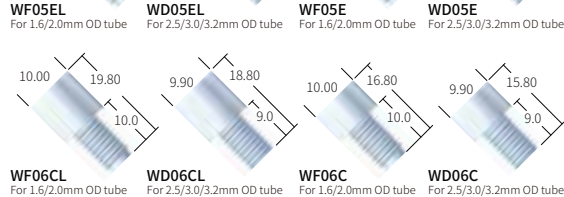
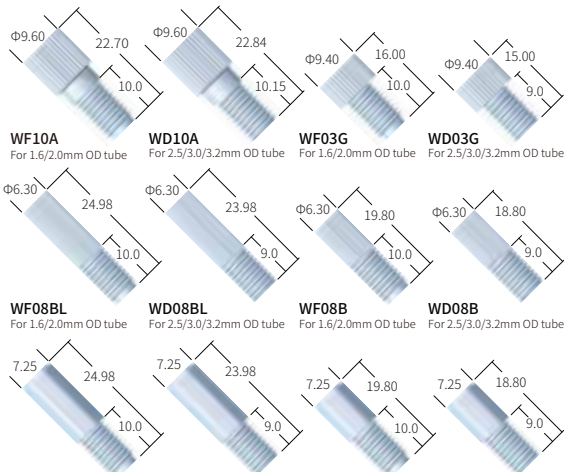


SKU	Model No.	Note
1006010256	SNGZ-YX	Uitable for WF10A/WD10A flangeless fittings

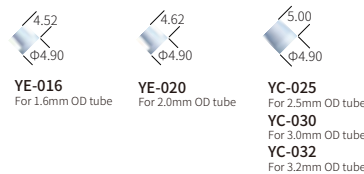
## Flangeless Fitting —two-piece set

- ◆ Standard fittings with straight threads, which are tool-free and durable. Simply slide the nut and ferrule on the tube, screwing them into the tube. The fittings need to use with ferrule.
- ◆ Resistant to chemicals and organics, including PP, PTFE, PPS, POM and other materials
- ◆ Used for standard rigid tubing OD 1.6/2.0/2.5/3.0/3.2mm, easy and fast installation.
- ◆ Thread: 1/4-28UNF, M6

### Nut(mm)



### Ferrule(mm)



<b>YE-016</b> For 1.6mm OD tube	<b>YE-020</b> For 2.0mm OD tube	<b>YC-025</b> For 2.5mm OD tube
		<b>YC-030</b> For 3.0mm OD tube
		<b>YC-032</b> For 3.2mm OD tube

SKU	Model No.	Thread	Tube OD	Material
<b>WF10A/WD10A</b>				
1006010170	WF10A-28P * YE-016P	1/4-28UNF	1.6mm OD	PP natural*PP natural
1006010169	WF10A-28P * YE-020P	1/4-28UNF	2.0mm OD	PP natural*PP natural
1006010168	WD10A-28P * YC-025P	1/4-28UNF	2.5mm OD	PP natural*PP natural
1006010167	WD10A-28P * YC-030P	1/4-28UNF	3.0mm OD	PP natural*PP natural
1006010166	WD10A-28P * YC-032P	1/4-28UNF	3.2mm OD	PP natural*PP natural
1006010175	WF10A-28E * YE-016A	1/4-28UNF	1.6mm OD	PTFE natural*PFA natural
1006010174	WF10A-28E * YE-020A	1/4-28UNF	2.0mm OD	PTFE natural*PFA natural
1006010173	WD10A-28E * YC-025A	1/4-28UNF	2.5mm OD	PTFE natural*PFA natural
1006010172	WD10A-28E * YC-030A	1/4-28UNF	3.0mm OD	PTFE natural*PFA natural
1006010171	WD10A-28E * YC-032A	1/4-28UNF	3.2mm OD	PTFE natural*PFA natural
1006010246	WF10A-M6P * YE-016P	M6	1.6mm OD	PP natural*PP natural
1006010247	WF10A-M6P * YE-020P	M6	2.0mm OD	PP natural*PP natural
1006010248	WD10A-M6P * YC-025P	M6	2.5mm OD	PP natural*PP natural
1006010249	WD10A-M6P * YC-030P	M6	3.0mm OD	PP natural*PP natural
1006010238	WD10A-M6P * YC-032P	M6	3.2mm OD	PP natural*PP natural
1006010241	WF10A-M6E * YE-016A	M6	1.6mm OD	PTFE natural*PFA natural
1006010242	WF10A-M6E * YE-020A	M6	2.0mm OD	PTFE natural*PFA natural
1006010243	WD10A-M6E * YC-025A	M6	2.5mm OD	PTFE natural*PFA natural
1006010244	WD10A-M6E * YC-030A	M6	3.0mm OD	PTFE natural*PFA natural
1006010245	WD10A-M6E * YC-032A	M6	3.2mm OD	PTFE natural*PFA natural
1006010455	WD10A-28-M * YC-016P	1/4-28UNF	1.6mm OD	POM natural*PP natural
1006010456	WD10A-28-M * YC-020P	1/4-28UNF	2.0mm OD	POM natural*PP natural
1006010457	WD10A-28-M * YC-025P	1/4-28UNF	2.5mm OD	POM natural*PP natural
1006010458	WD10A-28-M * YC-030P	1/4-28UNF	3.0mm OD	POM natural*PP natural
1006010459	WD10A-28-M * YC-032P	1/4-28UNF	3.2mm OD	POM natural*PP natural
1006010460	WD10A-M6M * YC-016P	M6	1.6mm OD	POM natural*PP natural
1006010461	WD10A-M6M * YC-020P	M6	2.0mm OD	POM natural*PP natural
1006010462	WD10A-M6M * YC-025P	M6	2.5mm OD	POM natural*PP natural
1006010463	WD10A-M6M * YC-030P	M6	3.0mm OD	POM natural*PP natural
1006010464	WD10A-M6M * YC-032P	M6	3.2mm OD	POM natural*PP natural
<b>WF03A/WD03G</b>				
1006010254	WF03G-28P * YE-016P	1/4-28UNF	1.6mm OD	PP natural*PP natural
1006010255	WF03G-28P * YE-020P	1/4-28UNF	2.0mm OD	PP natural*PP natural
1006010335	WD03G-28P * YC-025P	1/4-28UNF	2.5mm OD	PP natural*PP natural
1006010336	WD03G-28P * YC-030P	1/4-28UNF	3.0mm OD	PP natural*PP natural
1006010337	WD03G-28P * YC-032P	1/4-28UNF	3.2mm OD	PP natural*PP natural
1006010329	WF03G-28E * YE-016A	1/4-28UNF	1.6mm OD	PTFE natural*PFA natural
1006010330	WF03G-28E * YE-020A	1/4-28UNF	2.0mm OD	PTFE natural*PFA natural
1006010338	WD03G-28E * YC-025A	1/4-28UNF	2.5mm OD	PTFE natural*PFA natural
1006010339	WD03G-28E * YC-030A	1/4-28UNF	3.0mm OD	PTFE natural*PFA natural
1006010340	WD03G-28E * YC-032A	1/4-28UNF	3.2mm OD	PTFE natural*PFA natural
1006010331	WF03G-M6P * YE-016P	M6	1.6mm OD	PP natural*PP natural
1006010332	WF03G-M6P * YE-020P	M6	2.0mm OD	PP natural*PP natural
1006010341	WD03G-M6P * YC-025P	M6	2.5mm OD	PP natural*PP natural
1006010342	WD03G-M6P * YC-030P	M6	3.0mm OD	PP natural*PP natural
1006010343	WD03G-M6P * YC-032P	M6	3.2mm OD	PP natural*PP natural
1006010333	WF03G-M6E * YE-016A	M6	1.6mm OD	PTFE natural*PFA natural
1006010334	WF03G-M6E * YE-020A	M6	2.0mm OD	PTFE natural*PFA natural
1006010344	WD03G-M6E * YC-025A	M6	2.5mm OD	PTFE natural*PFA natural
1006010345	WD03G-M6E * YC-030A	M6	3.0mm OD	PTFE natural*PFA natural
1006010346	WD03G-M6E * YC-032A	M6	3.2mm OD	PTFE natural*PFA natural

SKU	Model No.	Thread	Tube OD	Material
<b>WF08BL/WD08BL</b>				
1006010292	WF08BL-28P * YE-016P	1/4-28UNF	1.6mm OD	PP natural*PP natural
1006010293	WF08BL-28P * YE-020P	1/4-28UNF	2.0mm OD	PP natural*PP natural
1006010300	WD08BL-28P * YC-025P	1/4-28UNF	2.5mm OD	PP natural*PP natural
1006010301	WD08BL-28P * YC-030P	1/4-28UNF	3.0mm OD	PP natural*PP natural
1006010302	WD08BL-28P * YC-032P	1/4-28UNF	3.2mm OD	PP natural*PP natural
1006010294	WF08BL-28E * YE-016A	1/4-28UNF	1.6mm OD	PTFE natural*PFA natural
1006010295	WF08BL-28E * YE-020A	1/4-28UNF	2.0mm OD	PTFE natural*PFA natural
1006010303	WD08BL-28E * YC-025A	1/4-28UNF	2.5mm OD	PTFE natural*PFA natural
1006010304	WD08BL-28E * YC-030A	1/4-28UNF	3.0mm OD	PTFE natural*PFA natural
1006010305	WD08BL-28E * YC-032A	1/4-28UNF	3.2mm OD	PTFE natural*PFA natural
1006010296	WF08BL-M6P * YE-016P	M6	1.6mm OD	PP natural*PP natural
1006010297	WF08BL-M6P * YE-020P	M6	2.0mm OD	PP natural*PP natural
1006010306	WD08BL-M6P * YC-025P	M6	2.5mm OD	PP natural*PP natural
1006010307	WD08BL-M6P * YC-030P	M6	3.0mm OD	PP natural*PP natural
1006010308	WD08BL-M6P * YC-032P	M6	3.2mm OD	PP natural*PP natural
1006010298	WF08BL-M6E * YE-016A	M6	1.6mm OD	PTFE natural*PFA natural
1006010299	WF08BL-M6E * YE-020A	M6	2.0mm OD	PTFE natural*PFA natural
1006010309	WD08BL-M6E * YC-025A	M6	2.5mm OD	PTFE natural*PFA natural
1006010310	WD08BL-M6E * YC-030A	M6	3.0mm OD	PTFE natural*PFA natural
1006010311	WD08BL-M6E * YC-032A	M6	3.2mm OD	PTFE natural*PFA natural
<b>WF08B/WD08B</b>				
1006010252	WF08B-28P * YE-016P	1/4-28UNF	1.6mm OD	PP natural*PP natural
1006010253	WF08B-28P * YE-020P	1/4-28UNF	2.0mm OD	PP natural*PP natural
1006010318	WD08B-28P * YC-025P	1/4-28UNF	2.5mm OD	PP natural*PP natural
1006010319	WD08B-28P * YC-030P	1/4-28UNF	3.0mm OD	PP natural*PP natural
1006010239	WD08B-28P+YC-032P	1/4-28UNF	3.2mm OD	PP natural*PP natural
1006010312	WF08B-28E * YE-016A	1/4-28UNF	1.6mm OD	PTFE natural*PFA natural
1006010313	WF08B-28E * YE-020A	1/4-28UNF	2.0mm OD	PTFE natural*PFA natural
1006010320	WD08B-28E * YC-025A	1/4-28UNF	2.5mm OD	PTFE natural*PFA natural
1006010321	WD08B-28E * YC-030A	1/4-28UNF	3.0mm OD	PTFE natural*PFA natural
1006010322	WD08B-28E * YC-032A	1/4-28UNF	3.2mm OD	PTFE natural*PFA natural
1006010314	WF08B-M6P * YE-016P	M6	1.6mm OD	PP natural*PP natural
1006010315	WF08B-M6P * YE-020P	M6	2.0mm OD	PP natural*PP natural
1006010323	WD08B-M6P * YC-025P	M6	2.5mm OD	PP natural*PP natural
1006010324	WD08B-M6P * YC-030P	M6	3.0mm OD	PP natural*PP natural
1006010325	WD08B-M6P * YC-032P	M6	3.2mm OD	PP natural*PP natural
1006010316	WF08B-M6E * YE-016A	M6	1.6mm OD	PTFE natural*PFA natural
1006010317	WF08B-M6E * YE-020A	M6	2.0mm OD	PTFE natural*PFA natural
1006010326	WD08B-M6E * YC-025A	M6	2.5mm OD	PTFE natural*PFA natural
1006010327	WD08B-M6E * YC-030A	M6	3.0mm OD	PTFE natural*PFA natural
1006010328	WD08B-M6E * YC-032A	M6	3.2mm OD	PTFE natural*PFA natural
<b>WF05EL/WD05EL</b>				
1006010258	WF05EL-28P * YE-016P	1/4-28UNF	1.6mm OD	PP natural*PP natural
1006010259	WF05EL-28P * YE-020P	1/4-28UNF	2.0mm OD	PP natural*PP natural
1006010260	WD05EL-28P * YC-025P	1/4-28UNF	2.5mm OD	PP natural*PP natural
1006010261	WD05EL-28P * YC-030P	1/4-28UNF	3.0mm OD	PP natural*PP natural
1006010262	WD05EL-28P * YC-032P	1/4-28UNF	3.2mm OD	PP natural*PP natural
1006010263	WD05EL-28E * YC-025A	1/4-28UNF	2.5mm OD	PTFE natural*PFA natural
1006010264	WD05EL-28E * YC-030A	1/4-28UNF	3.0mm OD	PTFE natural*PFA natural
1006010265	WD05EL-28E * YC-032A	1/4-28UNF	3.2mm OD	PTFE natural*PFA natural
1006010266	WD05EL-M6P * YC-025P	M6	2.5mm OD	PP natural*PP natural
1006010267	WD05EL-M6P * YC-030P	M6	3.0mm OD	PP natural*PP natural
1006010268	WD05EL-M6P * YC-032P	M6	3.2mm OD	PP natural*PP natural
1006010269	WD05EL-M6E * YC-025A	M6	2.5mm OD	PTFE natural*PFA natural
1006010270	WD05EL-M6E * YC-030A	M6	3.0mm OD	PTFE natural*PFA natural
1006010271	WD05EL-M6E * YC-032A	M6	3.2mm OD	PTFE natural*PFA natural

SKU	Model No.	Thread	Tube OD	Material
<b>WF05E/WD05E</b>				
1006010272	WF05E-28P * YE-016P	1/4-28UNF	1.6mm OD	PP natural*PP natural
1006010273	WF05E-28P * YE-020P	1/4-28UNF	2.0mm OD	PP natural*PP natural
1006010280	WD05E-28P * YC-025P	1/4-28UNF	2.5mm OD	PP natural*PP natural
1006010281	WD05E-28P * YC-030P	1/4-28UNF	3.0mm OD	PP natural*PP natural
1006010282	WD05E-28P * YC-032P	1/4-28UNF	3.2mm OD	PP natural*PP natural
1006010274	WF05E-28E * YE-016A	1/4-28UNF	1.6mm OD	PTFE natural*PFA natural
1006010275	WF05E-28E * YE-020A	1/4-28UNF	2.0mm OD	PTFE natural*PFA natural
1006010283	WD05E-28E * YC-025A	1/4-28UNF	2.5mm OD	PTFE natural*PFA natural
1006010284	WD05E-28E * YC-030A	1/4-28UNF	3.0mm OD	PTFE natural*PFA natural
1006010285	WD05E-28E * YC-032A	1/4-28UNF	3.2mm OD	PTFE natural*PFA natural
1006010276	WF05E-M6P * YE-016P	M6	1.6mm OD	PP natural*PP natural
1006010277	WF05E-M6P * YE-020P	M6	2.0mm OD	PP natural*PP natural
1006010286	WD05E-M6P * YC-025P	M6	2.5mm OD	PP natural*PP natural
1006010287	WD05E-M6P * YC-030P	M6	3.0mm OD	PP natural*PP natural
1006010288	WD05E-M6P * YC-032P	M6	3.2mm OD	PP natural*PP natural
1006010278	WF05E-M6E * YE-016A	M6	1.6mm OD	PTFE natural*PFA natural
1006010279	WF05E-M6E * YE-020A	M6	2.0mm OD	PTFE natural*PFA natural
1006010289	WD05E-M6E * YC-025A	M6	2.5mm OD	PTFE natural*PFA natural
1006010290	WD05E-M6E * YC-030A	M6	3.0mm OD	PTFE natural*PFA natural
1006010291	WD05E-M6E * YC-032A	M6	3.2mm OD	PTFE natural*PFA natural
<b>WF06CL/WD06CL</b>				
1006010347	WF06CL-28P * YE-016P	1/4-28UNF	1.6mm OD	PP natural*PP natural
1006010348	WF06CL-28P * YE-020P	1/4-28UNF	2.0mm OD	PP natural*PP natural
1006010353	WD06CL-28P * YC-025P	1/4-28UNF	2.5mm OD	PP natural*PP natural
1006010354	WD06CL-28P * YC-030P	1/4-28UNF	3.0mm OD	PP natural*PP natural
1006010355	WD06CL-28P * YC-032P	1/4-28UNF	3.2mm OD	PP natural*PP natural
1006010349	WF06CL-28E * YE-016A	1/4-28UNF	1.6mm OD	PTFE natural*PFA natural
1006010350	WF06CL-28E * YE-020A	1/4-28UNF	2.0mm OD	PTFE natural*PFA natural
1006010356	WD06CL-28E * YC-025A	1/4-28UNF	2.5mm OD	PTFE natural*PFA natural
1006010357	WD06CL-28E * YC-030A	1/4-28UNF	3.0mm OD	PTFE natural*PFA natural
1006010358	WD06CL-28E * YC-032A	1/4-28UNF	3.2mm OD	PTFE natural*PFA natural
1006010351	WF06CL-M6P * YE-016P	M6	1.6mm OD	PP natural*PP natural
1006010352	WF06CL-M6P * YE-020P	M6	2.0mm OD	PP natural*PP natural
1006010359	WD06CL-M6P * YC-025P	M6	2.5mm OD	PP natural*PP natural
1006010360	WD06CL-M6P * YC-030P	M6	3.0mm OD	PP natural*PP natural
1006010361	WD06CL-M6P * YC-032P	M6	3.2mm OD	PP natural*PP natural
<b>WF06C/WD06C</b>				
1006010362	WF06C-28P * YE-016P	1/4-28UNF	1.6mm OD	PP natural*PP natural
1006010363	WF06C-28P * YE-020P	1/4-28UNF	2.0mm OD	PP natural*PP natural
1006010366	WD06C-28P * YC-025P	1/4-28UNF	2.5mm OD	PP natural*PP natural
1006010367	WD06C-28P * YC-030P	1/4-28UNF	3.0mm OD	PP natural*PP natural
1006010368	WD06C-28P * YC-032P	1/4-28UNF	3.2mm OD	PP natural*PP natural
1006010369	WD06C-28E * YC-025A	1/4-28UNF	2.5mm OD	PTFE natural*PFA natural
1006010370	WD06C-28E * YC-030A	1/4-28UNF	3.0mm OD	PTFE natural*PFA natural
1006010371	WD06C-28E * YC-032A	M6	3.2mm OD	PTFE natural*PFA natural
1006010364	WF06C-M6P * YE-016P	M6	1.6mm OD	PP natural*PP natural
1006010365	WF06C-M6P * YE-020P	M6	2.0mm OD	PP natural*PP natural
1006010372	WD06C-M6P * YC-025P	M6	2.5mm OD	PP natural*PP natural
1006010373	WD06C-M6P * YC-030P	M6	3.0mm OD	PP natural*PP natural
1006010374	WD06C-M6P * YC-032P	M6	3.2mm OD	PP natural*PP natural

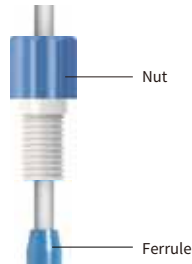


## Pre-torque Flangeless Fitting —two-piece set

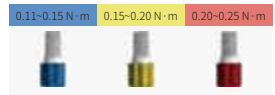
- ◆ Pre-torque flangeless fittings offers a unique system for hand-tight fittings. As the fitting is tightened, the resistance of the cap increases until the correct torque is reached at which point the cap clicks. The user is able to hand-tighten the fittings without tools or guesswork and be confident that the fitting is properly seated, creating a secure seal without damaging the port through over-tightening. The fitting can be unscrewed and reused dozens of times.
- ◆ Resistant to chemical corrosion and various organic substances, including PTFE and PP materials
- ◆ Used for standard rigid tubing OD 1.6/2.0/2.5/3.0/3.2mm, easy and fast installation.
- ◆ Thread: 1/4-28UNF, M6

### Application Note

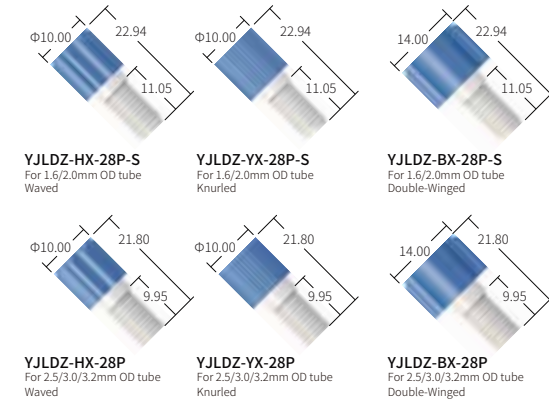
- Step 1.** Slide the nut, followed by the ferrule, at least 3/16" (4.7625mm) from the end of clean cut tubing
- Step 2.** Insert the assembly into the receiving port, pushing the tubing into the port until it bottoms out
- Step 3.** Finger tighten the fittings into the port until snug
- Step 4.** After disassembling, the ferrules should be replaced in next assembly and connection



※ Make sure the ferrule is oriented correctly! The narrow end of the ferrule should towards the nut.  
 ※ Please choose the correct nut model, so that no under-torque or over-torque will occur to affect tube sealing or squeeze tube.  
 ※ Use environment :  
 0.11~0.15 N·m — WT ≤0.5mm at room temperature  
 0.15~0.20 N·m — WT >0.5mm at room temperature  
 0.20~0.25 N·m — Use temperature >100°C, or pressure >8kg



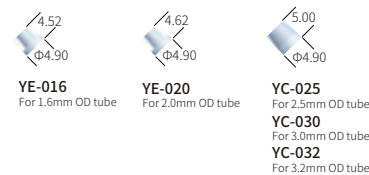
### Nut(mm)



Waved	Knurled	Double-Winged
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### Ferrule(mm)



**YE-016** For 1.6mm OD tube  
**YE-020** For 2.0mm OD tube  
**YC-025** For 2.5mm OD tube  
**YC-030** For 3.0mm OD tube  
**YC-032** For 3.2mm OD tube

### Related Products

▶ It is recommended to purchase the handtighten tooling. The handle is designed to be longer and larger, with a larger force area, it is easier to tighten fittings in tight spaces.



SKU	Model No.	Note
1006020073	SGNZ-HX	For Waved nut head pre-torque flangeless nut
1006020074	SGNZ-YJLDZ-YX	For Knurled nut head pre-torque flangeless nut

SKU	Model No.	Thread	Tube OD	Torque Range	Material
WF10A/WD10A					
1006020075	YJLDZ-HX-28P-S (011/015) * YE-016P	1/4-28UNF	1.6mm OD	0.11~0.15 N·m	PP natural (blue handle) *PP natural
1006020076	YJLDZ-HX-28P-S (011/015) * YE-020P	1/4-28UNF	2.0mm OD	0.11~0.15 N·m	PP natural (blue handle) *PP natural
1006020077	YJLDZ-HX-28P (011/015) * YC-025P	1/4-28UNF	2.5mm OD	0.11~0.15 N·m	PP natural (blue handle) *PP natural
1006020078	YJLDZ-HX-28P (011/015) * YC-030P	1/4-28UNF	3.0mm OD	0.11~0.15 N·m	PP natural (blue handle) *PP natural
1006020079	YJLDZ-HX-28P (011/015) * YC-032P	1/4-28UNF	3.2mm OD	0.11~0.15 N·m	PP natural (blue handle) *PP natural
1006020080	YJLDZ-HX-28E-S (011/015) * YE-016A	1/4-28UNF	1.6mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural
1006020081	YJLDZ-HX-28E-S (011/015) * YE-020A	1/4-28UNF	2.0mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural
1006020082	YJLDZ-HX-28E (011/015) * YC-025A	1/4-28UNF	2.5mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural
1006020083	YJLDZ-HX-28E (011/015) * YC-030A	1/4-28UNF	3.0mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural
1006020084	YJLDZ-HX-28E (011/015) * YC-032A	1/4-28UNF	3.2mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural
1006020085	YJLDZ-HX-06E-S (011/015) * YE-016A	M6	1.6mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural
1006020086	YJLDZ-HX-06E-S (011/015) * YE-020A	M6	2.0mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural
1006020087	YJLDZ-HX-06E (011/015) * YC-025A	M6	2.5mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural
1006020088	YJLDZ-HX-06E (011/015) * YC-030A	M6	3.0mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural
1006020089	YJLDZ-HX-06E (011/015) * YC-032A	M6	3.2mm OD	0.11~0.15 N·m	PTFE natural (blue handle) *PFA natural

Note: If the above specification does not have the connector combination you need, please contact us for customisation



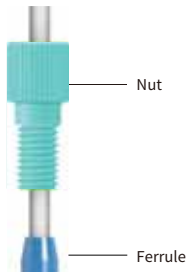
## Color Flangeless Fitting

### —two-piece set

- ◆ Standard fittings with straight threads, which are tool-free and durable. Simply slide the nut and ferrule on the tube, screwing them into the tube. The fittings need to use with ferrule.
- ◆ Resistant to chemicals and organics, PP
- ◆ Used for standard rigid tubing OD 1.6/2.0/2.5/3.0/3.2mm, easy and fast installation.
- ◆ Different fitting colors for easy differentiation of flow paths
- ◆ Thread: 1/4-28UNF, M6

### Application Note

Installation steps same as flangeless fittings



※ Make sure the ferrule is oriented correctly! The narrow end of the ferrule should towards the nut.

※ Flangeless nut is available in PTFE

### Related Products

▶ Please refer to page 51-52 FEP/PTFE Tube to achieve connection with rigid tube

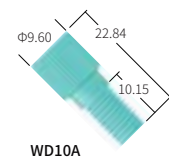
SKU	Model (ID*OD)	Note
100504001	TFLG00001 (0.8*1.6)	FEP Transparent
100504002	TFLG00002 (1*2)	FEP Transparent
100504003	TFLG00003 (1.5*2.5)	FEP Transparent
100504004	TFLG00004 (2*3)	FEP Transparent
100504005	TFLG00005 (2.115*3.115)	FEP Transparent

▶ It is recommended to purchase the handtighten tooling. The handle is designed to be longer and larger, with a larger force area, it is easier to tighten fittings in tight spaces



SKU	Model No.	Note
1006010256	SNZG-YX	Uitabte for WF10A/WD10A flangeless fittings

### Nut(mm)



WD10A

### Ferrule(mm)



YE-016

For 1.6mm OD tube

YC-025

For 2.5mm OD tube

YC-030

For 3.0mm OD tube

YC-032

For 3.2mm OD tube

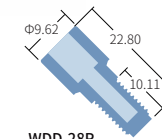
SKU	Model No.	Thread	Tube OD	Material
<b>Red</b>				
1006010375	WD10A-28P-Red * YC-016P	1/4-28UNF	1.6mm OD	PP red* PP natural
1006010376	WD10A-28P-Red * YC-020P	1/4-28UNF	2.0mm OD	PP red* PP natural
1006010377	WD10A-28P-Red * YC-025P	1/4-28UNF	2.5mm OD	PP red* PP natural
1006010378	WD10A-28P-Red * YC-030P	1/4-28UNF	3.0mm OD	PP red* PP natural
1006010379	WD10A-28P-Red * YC-032P	1/4-28UNF	3.2mm OD	PP red* PP natural
1006010415	WD10A-M6P-Red * YC-016P	M6	1.6mm OD	PP red* PP natural
1006010416	WD10A-M6P-Red * YC-020P	M6	2.0mm OD	PP red* PP natural
1006010417	WD10A-M6P-Red * YC-025P	M6	2.5mm OD	PP red* PP natural
1006010418	WD10A-M6P-Red * YC-030P	M6	3.0mm OD	PP red* PP natural
1006010419	WD10A-M6P-Red * YC-032P	M6	3.2mm OD	PP red* PP natural
<b>Deep Purple</b>				
1006010380	WD10A-28P-Deep Purple * YC-016P	1/4-28UNF	1.6mm OD	PP deep purple* PP natural
1006010381	WD10A-28P-Deep Purple * YC-020P	1/4-28UNF	2.0mm OD	PP deep purple* PP natural
1006010382	WD10A-28P-Deep Purple * YC-025P	1/4-28UNF	2.5mm OD	PP deep purple* PP natural
1006010383	WD10A-28P-Deep Purple * YC-030P	1/4-28UNF	3.0mm OD	PP deep purple* PP natural
1006010384	WD10A-28P-Deep Purple * YC-032P	1/4-28UNF	3.2mm OD	PP deep purple* PP natural
1006010420	WD10A-M6P-Deep Purple * YC-016P	M6	1.6mm OD	PP deep purple* PP natural
1006010421	WD10A-M6P-Deep Purple * YC-020P	M6	2.0mm OD	PP deep purple* PP natural
1006010422	WD10A-M6P-Deep Purple * YC-025P	M6	2.5mm OD	PP deep purple* PP natural
1006010423	WD10A-M6P-Deep Purple * YC-030P	M6	3.0mm OD	PP deep purple* PP natural
1006010424	WD10A-M6P-Deep Purple * YC-032P	M6	3.2mm OD	PP deep purple* PP natural
<b>Dark Blue</b>				
1006010385	WD10A-28P-Dark Blue * YC-016P	1/4-28UNF	1.6mm OD	PP dark blue* PP natural
1006010386	WD10A-28P-Dark Blue * YC-020P	1/4-28UNF	2.0mm OD	PP dark blue* PP natural
1006010387	WD10A-28P-Dark Blue * YC-025P	1/4-28UNF	2.5mm OD	PP dark blue* PP natural
1006010388	WD10A-28P-Dark Blue * YC-030P	1/4-28UNF	3.0mm OD	PP dark blue* PP natural
1006010389	WD10A-28P-Dark Blue * YC-032P	1/4-28UNF	3.2mm OD	PP dark blue* PP natural
1006010425	WD10A-M6P-Dark Blue * YC-016P	M6	1.6mm OD	PP dark blue* PP natural
1006010426	WD10A-M6P-Dark Blue * YC-020P	M6	2.0mm OD	PP dark blue* PP natural
1006010427	WD10A-M6P-Dark Blue * YC-025P	M6	2.5mm OD	PP dark blue* PP natural
1006010428	WD10A-M6P-Dark Blue * YC-030P	M6	3.0mm OD	PP dark blue* PP natural
1006010429	WD10A-M6P-Dark Blue * YC-032P	M6	3.2mm OD	PP dark blue* PP natural
<b>Beige Blue</b>				
1006010390	WD10A-28P-Beige Blue * YC-016P	1/4-28UNF	1.6mm OD	PP beige blue* PP natural
1006010391	WD10A-28P-Beige Blue * YC-020P	1/4-28UNF	2.0mm OD	PP beige blue* PP natural
1006010392	WD10A-28P-Beige Blue * YC-025P	1/4-28UNF	2.5mm OD	PP beige blue* PP natural
1006010393	WD10A-28P-Beige Blue * YC-030P	1/4-28UNF	3.0mm OD	PP beige blue* PP natural
1006010394	WD10A-28P-Beige Blue * YC-032P	1/4-28UNF	3.2mm OD	PP beige blue* PP natural
1006010430	WD10A-M6P-Beige Blue * YC-016P	M6	1.6mm OD	PP beige blue* PP natural
1006010431	WD10A-M6P-Beige Blue * YC-020P	M6	2.0mm OD	PP beige blue* PP natural
1006010432	WD10A-M6P-Beige Blue * YC-025P	M6	2.5mm OD	PP beige blue* PP natural
1006010443	WD10A-M6P-Beige Blue * YC-030P	M6	3.0mm OD	PP beige blue* PP natural
1006010444	WD10A-M6P-Beige Blue * YC-032P	M6	3.2mm OD	PP beige blue* PP natural
<b>Grass Green</b>				
1006010395	WD10A-28P-Grass Green * YC-016P	1/4-28UNF	1.6mm OD	PP grass green* PP natural
1006010396	WD10A-28P-Grass Green * YC-020P	1/4-28UNF	2.0mm OD	PP grass green* PP natural
1006010397	WD10A-28P-Grass Green * YC-025P	1/4-28UNF	2.5mm OD	PP grass green* PP natural
1006010398	WD10A-28P-Grass Green * YC-030P	1/4-28UNF	3.0mm OD	PP grass green* PP natural
1006010399	WD10A-28P-Grass Green * YC-032P	1/4-28UNF	3.2mm OD	PP grass green* PP natural
1006010445	WD10A-M6P-Grass Green * YC-016P	M6	1.6mm OD	PP grass green* PP natural
1006010446	WD10A-M6P-Grass Green * YC-020P	M6	2.0mm OD	PP grass green* PP natural
1006010447	WD10A-M6P-Grass Green * YC-025P	M6	2.5mm OD	PP grass green* PP natural
1006010448	WD10A-M6P-Grass Green * YC-030P	M6	3.0mm OD	PP grass green* PP natural
1006010449	WD10A-M6P-Grass Green * YC-032P	M6	3.2mm OD	PP grass green* PP natural

## Coned Plug

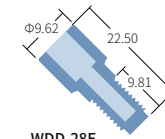


- ◆ For blocking the flow of liquids and gases
- ◆ Fittings available in PP and PTFE, non-toxic, odourless, heat resistant, resistant to chemicals and organic substances
- ◆ Suitable for standard 1/4-28UNF flat bottom threaded fittings

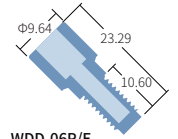
Unit: mm



WDD-28P



WDD-28E



WDD-06P/E

SKU	Model No.	Thread	Tube OD	Material
<b>Lemon Yellow</b>				
1006010400	WD10A-28P- Lemon Yellow * YC-016P	1/4-28UNF	1.6mm OD	PP lemon yellow* PP natural
1006010401	WD10A-28P- Lemon Yellow * YC-020P	1/4-28UNF	2.0mm OD	PP lemon yellow* PP natural
1006010402	WD10A-28P- Lemon Yellow * YC-025P	1/4-28UNF	2.5mm OD	PP lemon yellow* PP natural
1006010403	WD10A-28P- Lemon Yellow * YC-030P	1/4-28UNF	3.0mm OD	PP lemon yellow* PP natural
1006010404	WD10A-28P- Lemon Yellow * YC-032P	1/4-28UNF	3.2mm OD	PP lemon yellow* PP natural
1006010450	WD10A-M6P- Lemon Yellow * YC-016P	M6	1.6mm OD	PP lemon yellow* PP natural
1006010451	WD10A-M6P- Lemon Yellow * YC-020P	M6	2.0mm OD	PP lemon yellow* PP natural
1006010452	WD10A-M6P- Lemon Yellow * YC-025P	M6	2.5mm OD	PP lemon yellow* PP natural
1006010433	WD10A-M6P- Lemon Yellow * YC-030P	M6	3.0mm OD	PP lemon yellow* PP natural
1006010434	WD10A-M6P- Lemon Yellow * YC-032P	M6	3.2mm OD	PP lemon yellow* PP natural
<b>Deep Black</b>				
1006010405	WD10A-28P-Deep Black * YC-016P	1/4-28UNF	1.6mm OD	PP deep black* PP natural
1006010406	WD10A-28P-Deep Black * YC-020P	1/4-28UNF	2.0mm OD	PP deep black* PP natural
1006010407	WD10A-28P-Deep Black * YC-025P	1/4-28UNF	2.5mm OD	PP deep black* PP natural
1006010408	WD10A-28P-Deep Black * YC-030P	1/4-28UNF	3.0mm OD	PP deep black* PP natural
1006010409	WD10A-28P-Deep Black * YC-032P	1/4-28UNF	3.2mm OD	PP deep black* PP natural
1006010435	WD10A-M6P-Deep Black * YC-016P	M6	1.6mm OD	PP deep black* PP natural
1006010436	WD10A-M6P-Deep Black * YC-020P	M6	2.0mm OD	PP deep black* PP natural
1006010437	WD10A-M6P-Deep Black * YC-025P	M6	2.5mm OD	PP deep black* PP natural
1006010438	WD10A-M6P-Deep Black * YC-030P	M6	3.0mm OD	PP deep black* PP natural
1006010439	WD10A-M6P-Deep Black * YC-032P	M6	3.2mm OD	PP deep black* PP natural
<b>Dark Brown</b>				
1006010410	WD10A-28P-Dark Brown * YC-016P	1/4-28UNF	1.6mm OD	PP dark brown* PP natural
1006010411	WD10A-28P-Dark Brown * YC-020P	1/4-28UNF	2.0mm OD	PP dark brown* PP natural
1006010412	WD10A-28P-Dark Brown * YC-025P	1/4-28UNF	2.5mm OD	PP dark brown* PP natural
1006010413	WD10A-28P-Dark Brown * YC-030P	1/4-28UNF	3.0mm OD	PP dark brown* PP natural
1006010414	WD10A-28P-Dark Brown * YC-032P	1/4-28UNF	3.2mm OD	PP dark brown* PP natural
1006010440	WD10A-M6P-Dark Brown * YC-016P	M6	1.6mm OD	PP dark brown* PP natural
1006010441	WD10A-M6P-Dark Brown * YC-020P	M6	2.0mm OD	PP dark brown* PP natural
1006010442	WD10A-M6P-Dark Brown * YC-025P	M6	2.5mm OD	PP dark brown* PP natural
1006010453	WD10A-M6P-Dark Brown * YC-030P	M6	3.0mm OD	PP dark brown* PP natural
1006010454	WD10A-M6P-Dark Brown * YC-032P	M6	3.2mm OD	PP dark brown* PP natural

SKU	Model No.	Thread	Material
<b>Coned Plug</b>			
1006040001	WDD-28P	1/4-28UNF	PP natural
1006040002	WDD-28E	1/4-28UNF	PTFE natural
1006040003	WDD-06P	M6	PP natural
1006040004	WDD-06E	M6	PTFE natural

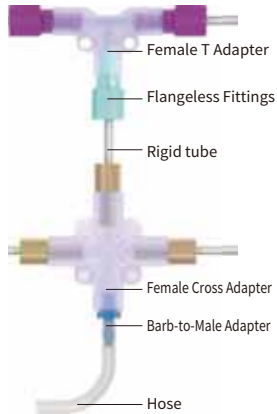


## Female Thread Adapter

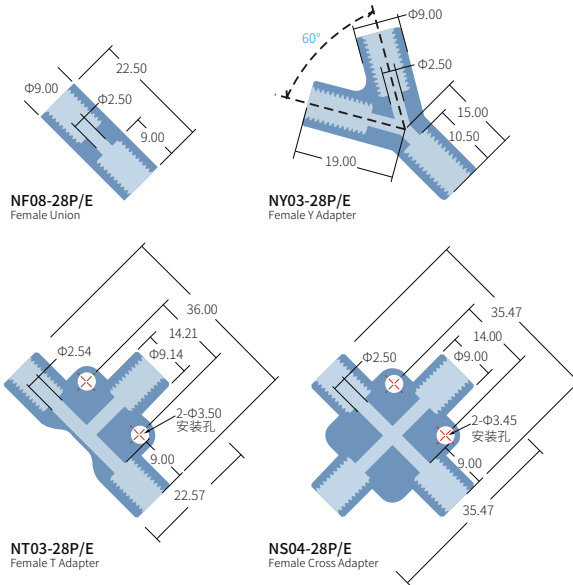
- ◆ Standard threads and curvature, no gap, no wobble and good sealing with the corresponding threads
- ◆ Imported raw material, non-toxic, tasteless, heat and corrosion resistant. PP material is widely used in biomedical, environmental protection and food industries; PTFE material is also suitable for chemical industry and other fields
- ◆ Fittings available in PP and PTFE, non-toxic, odourless, heat resistant, resistant to chemicals and organic substances
- ◆ Suitable for standard 1/4-28UNF flat bottom threaded fittings

Unit: mm

### ★ Application Note



※ Can be connected to 1/4-28 UNF male threaded fittings to allow for any connection between rigid tube and rigid tube, rigid tube and hose, hose and hose of the same or



SKU	Model No.	Thread	Material
<b>Female Union</b>			
1006050001	NF08-28P	1/4-28UNF female thread	PP natural
1006050002	NF08-28E	1/4-28UNF female thread	PTFE natural
<b>Female Y Adapter</b>			
1006070001	NY03-28P	1/4-28UNF female thread	PP natural
1006070002	NY03-28E	1/4-28UNF female thread	PTFE natural
<b>Female T Adapter</b>			
1006060001	NT03-28P	1/4-28UNF female thread	PP natural
1006060002	NT03-28E	1/4-28UNF female thread	PTFE natural
<b>Female Cross Adapter</b>			
1006080001	NS04-28P	1/4-28UNF female thread	PP natural
1006080002	NS04-28E	1/4-28UNF female thread	PTFE natural

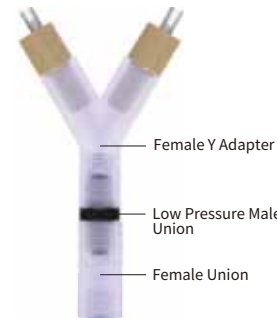


## Low Pressure Male Union

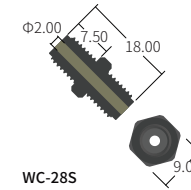
- ◆ Standard threads and curvature, no gap, no wobble and good sealing with the corresponding threads
- ◆ The PPS material has high strength, high toughness, excellent heat and chemical resistance,
- ◆ Suitable temperature range -50°C~150°C
- ◆ Thread: 1/4-28 UNF

Unit: mm

### ★ Application Note



※ Can be used with RUNZE female threaded fittings and threaded bulkhead union to achieve connection of different tubes.



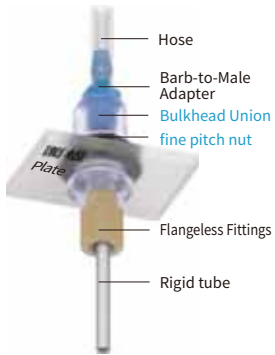
SKU	Model No.	Thread	Material
<b>Low Pressure Male Union</b>			
1006090015	WC-28S	1/4-28UNF	PPS black



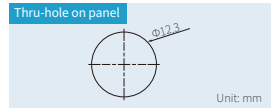
## Bulkhead Two-piece Union

- ◆ Designed to connect internal tubing to the outside through the equipment enclosure; the installation requires the panel to be pre-drilled
- ◆ Interchangeable internal and external threads for leak-free connection with flexible and rigid pipe connection system
- ◆ Fittings are available in PP and PTFE materials, non-toxic, odourless, heat resistant, resistant to chemical corrosion and various organic substances; thin fine pitch nut is available in PPS and PTFE materials
- ◆ Suitable for standard 1/4-28UNF flat bottom threaded fittings

### Application Note



※ Panel thickness ≤14mm



### Related Products

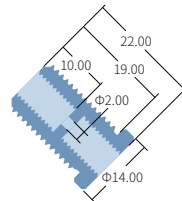
▶ It is recommended to purchase a wrench (PPS material) to tighten the hexagonal nut.



SKU	Model No.	Note
1006090016	15mm-S	Bulkhead nut wrench

SKU	Model No.	Thread	Material
<b>Bulkhead Two-piece Union</b>			
1006090041	NC-28P * M12*1-S	1/4-28UNF female thread	PP natural * PPS black
1006090042	NC-28P * M12*1-E	1/4-28UNF female thread	PP natura * PTFE natural
1006090043	NC-28E * M12*1-S	1/4-28UNF female thread	PTFE natural * PPS black
1006090044	NC-28E * M12*1-E	1/4-28UNF female thread	PTFE natural * PTFE natural

Unit: mm



NC-28



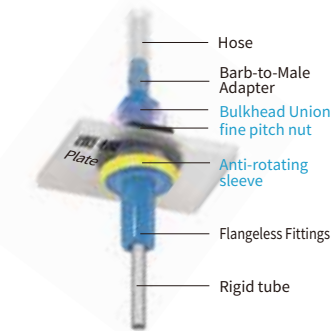
M12\*1



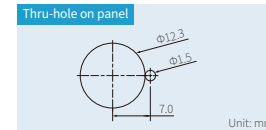
## Bulkhead Three-piece Union

- ◆ Anti-rotation sleeve has been added to prevent fitting from rotation
- ◆ Designed to connect internal tubing to the outside through the equipment enclosure; the installation requires the panel to be pre-drilled
- ◆ Interchangeable internal and external threads for leak-free connection with flexible and rigid pipe connection system
- ◆ Fittings are available in PP and PTFE materials, non-toxic, odourless, heat resistant, resistant to chemical corrosion and various organic substances; thin fine pitch nut is available in PPS and PTFE materials
- ◆ Suitable for standard 1/4-28UNF flat bottom threaded fittings

### Application Note



※ Panel thickness ≤9mm



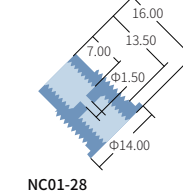
### Related Products

▶ It is recommended to purchase a wrench (PPS material) to tighten the hexagonal nut.

SKU	Model No.	Note
1006090016	15mm-S	Bulkhead nut wrench

SKU	Model No.	Thread	Material
<b>Bulkhead Union</b>			
1006090023	NC01-28P * M12*1-S * C12-P- Red	1/4-28UNF female thread	PP natural*PPS black*PP Red
1006090024	NC01-28P * M12*1-S * C12-P- Deep Black	1/4-28UNF female thread	PP natural*PPS black*PP Black
1006090025	NC01-28P * M12*1-S * C12-P- Lemon Yellow	1/4-28UNF female thread	PP natural*PPS black*PP Lemon Yellow
1006090026	NC01-28P * M12*1-S * C12-P- Grass Green	1/4-28UNF female thread	PP natural*PPS black*PP Grass Green
1006090027	NC01-28P * M12*1-S * C12-P- Beige Blue	1/4-28UNF female thread	PP natural*PPS black*PP Beige Blue
1006090028	NC01-28P * M12*1-S * C12-P- Dark Blue	1/4-28UNF female thread	PP natural*PPS black*PP Dark Blue
1006090029	NC01-28P * M12*1-S * C12-P- Deep Purple	1/4-28UNF female thread	PP natural*PPS black*PP Deep Purple
1006090030	NC01-28E * M12*1-E * C12-P- Red	1/4-28UNF female thread	PTFE natural*PTFE natural*PP Red
1006090031	NC01-28E * M12*1-E * C12-P- Deep Black	1/4-28UNF female thread	PTFE natural*PTFE natural*PP Black
1006090032	NC01-28E * M12*1-E * C12-P- Lemon Yellow	1/4-28UNF female thread	PTFE natural*PTFE natural*PP Lemon Yellow
1006090033	NC01-28E * M12*1-E * C12-P- Grass Green	1/4-28UNF female thread	PTFE natural*PTFE natural*PP Grass Green
1006090034	NC01-28E * M12*1-E * C12-P- Beige Blue	1/4-28UNF female thread	PTFE natural*PTFE natural*PP Beige Blue
1006090035	NC01-28E * M12*1-E * C12-P- Dark Blue	1/4-28UNF female thread	PTFE natural*PTFE natural*PP Dark Blue
1006090036	NC01-28E * M12*1-E * C12-P- Deep Purple	1/4-28UNF female thread	PTFE natural*PTFE natural*PP Deep Purple

Unit: mm



NC01-28



M12\*1



C12-P



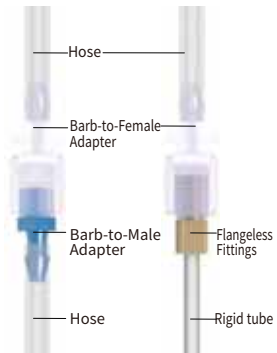


## Barb-to-Female Adapter

- ◆ For adapter between male thread and hose, for connection between hose and rigid tube.
- ◆ Fittings available in PP and PTFE, non-toxic, odourless, heat resistant, resistant to chemicals and organic substances
- ◆ Suitable for standard 1/4-28UNF flat bottom threaded fittings

Unit: mm

### Application Note



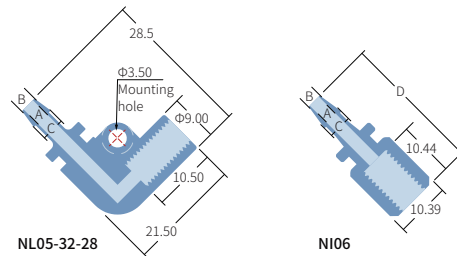
※ Can be used with RUNZE flangeless fitting, flanged fitting and barb-to-male adapter to allow for any connection between rigid tube and rigid tube, rigid tube and hose, hose and hose of the same or different tube diameters

### Related Products

► For suitable hose tubing, please refer to pages 65 to 67

- Rubber tube — page 65
- Viton rubber tube — page 66
- Silicone hoses — page 67

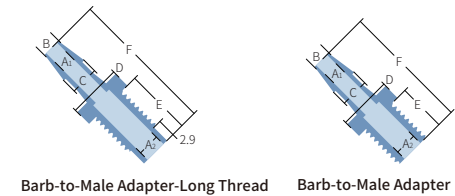
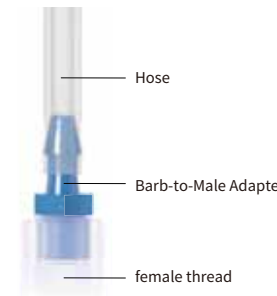
SKU	Model No.	Tubing ID	Thread	Dimension (mm)				Material
<b>Elbow Barb-to-Female Adapter</b>								
1007010001	NL05-32-28P	2.4~3.2 mm	1/4-28UNF	A=Φ2.50	B=Φ3.50	C=Φ4.50	PP natural	
1007010002	NL05-32-28E	2.4~3.2 mm	1/4-28UNF	A=Φ2.50	B=Φ3.50	C=Φ4.50	PTFE natura	
<b>Straight Barb-to-Female Adapter</b>								
1007020001	NI06-16-28P	1.0~1.6mm	1/4-28UNF	A=Φ0.99	B=Φ1.60	C=Φ2.90	D=27.60	PP natural
1007020002	NI06-16-28E	1.0~1.6mm	1/4-28UNF	A=Φ0.99	B=Φ1.60	C=Φ2.90	D=27.60	PTFE natural
1007020003	NI06-24-28P	1.6~2.4mm	1/4-28UNF	A=Φ1.59	B=Φ2.40	C=Φ3.80	D=27.60	PP natural
1007020004	NI06-24-28E	1.6~2.4mm	1/4-28UNF	A=Φ1.59	B=Φ2.40	C=Φ3.80	D=27.60	PTFE natural
1007020005	NI06-32-28P	2.4~3.2mm	1/4-28UNF	A=Φ1.97	B=Φ3.50	C=Φ4.50	D=27.60	PP natural
1007020006	NI06-32-28E	2.4~3.2mm	1/4-28UNF	A=Φ1.97	B=Φ3.50	C=Φ4.50	D=27.60	PTFE natural
1007020019	NI06-40-28P	3.2~4.0mm	1/4-28UNF	A=Φ2.80	B=Φ4.00	C=Φ5.50	D=26.40	PP natural
1007020021	NI06-40-28E	3.2~4.0mm	1/4-28UNF	A=Φ2.80	B=Φ4.00	C=Φ5.50	D=26.40	PTFE natural



## Barb-to-Male Adapter

- ◆ The hose can be connected to any threaded flat bottom receiving port. Simply screw the fitting into the receiving port and slip the hose over the pagoda end to create a reliable low pressure connection
- ◆ Fittings available in PP, PTFE, non-toxic, odourless, heat resistant, resistant to chemicals and various organic substances
- ◆ Thread : 1/4-28UNF, M8, M10

Unit: mm



### Related Products

► For suitable hose tubing, please refer to pages 65 to 67

- Rubber tube — page 65
- Viton rubber tube — page 66
- Silicone hoses — page 67

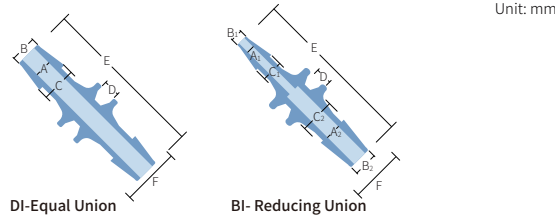
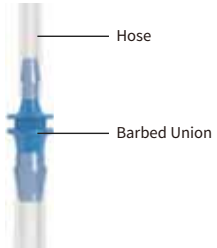
SKU	Model No.	Tubing ID	Thread	Dimension (mm)							Material
<b>Barb-to-Male Adapter-Long Thread</b>											
1007030008	WZ-016L-PP	1.0~1.6 mm	1/4-28UNF	A1=Φ0.99	A2=Φ3.50	B=Φ1.60	C=Φ2.90	D=8.49	E=10.5	F=23.16	PP natural
1007030009	WZ-024L-PP	1.6~2.4 mm	1/4-28UNF	A1=Φ1.60	A2=Φ3.50	B=Φ2.40	C=Φ3.80	D=8.49	E=10.5	F=23.16	PP natural
1007030010	WZ-032L-PP	2.4~3.2 mm	1/4-28UNF	A1=Φ2.40	A2=Φ3.50	B=Φ3.20	C=Φ4.50	D=8.49	E=10.5	F=23.16	PP natural
1007030011	WZ-040L-PP	3.2~4.0 mm	1/4-28UNF	A1=Φ3.50	A2=Φ3.50	B=Φ4.20	C=Φ6.00	D=8.49	E=10.5	F=26.76	PP natural
1007030012	WZ-048L-PP	4.0~4.8 mm	1/4-28UNF	A1=Φ4.00	A2=Φ4.00	B=Φ4.80	C=Φ6.80	D=8.49	E=10.5	F=27.06	PP natural
1007030013	WZ-016L-PTFE	1.0~1.6 mm	1/4-28UNF	A1=Φ0.99	A2=Φ3.50	B=Φ1.60	C=Φ2.90	D=8.49	E=10.5	F=23.16	PTFE natural
1007030014	WZ-024L-PTFE	1.6~2.4 mm	1/4-28UNF	A1=Φ1.60	A2=Φ3.50	B=Φ2.40	C=Φ3.80	D=8.49	E=10.5	F=23.16	PTFE natural
1007030015	WZ-032L-PTFE	2.4~3.2 mm	1/4-28UNF	A1=Φ2.40	A2=Φ3.50	B=Φ3.20	C=Φ4.50	D=8.49	E=10.5	F=23.16	PTFE natural
1007030016	WZ-040L-PTFE	3.2~4.0 mm	1/4-28UNF	A1=Φ3.50	A2=Φ3.50	B=Φ4.20	C=Φ6.00	D=8.49	E=10.5	F=26.76	PTFE natural
1007030017	WZ-048L-PTFE	4.0~4.8 mm	1/4-28UNF	A1=Φ4.00	A2=Φ4.00	B=Φ4.80	C=Φ6.80	D=8.49	E=10.5	F=27.06	PTFE natural
<b>Barb-to-Male Adapter</b>											
1007030001	WZ-016-PP	1.0~1.6 mm	1/4-28UNF	A1=Φ1.00	A2=Φ4.00	B=Φ1.60	C=Φ2.90	D=7.35	E=6	F=18.6	PP natural
1007030003	WZ-024-PP	1.6~2.4 mm	1/4-28UNF	A1=Φ1.57	A2=Φ4.00	B=Φ2.50	C=Φ3.80	D=8.49	E=6.2	F=18.8	PP natural
1007030004	WZ-032-PP	2.4~3.2 mm	1/4-28UNF	A1=Φ2.36	A2=Φ4.00	B=Φ3.20	C=Φ4.20	D=8.49	E=6.2	F=18.8	PP natural
1007030018	WZ-040-PP	3.2~4.0 mm	1/4-28UNF	A1=Φ2.96	A2=Φ3.94	B=Φ4.00	C=Φ6.00	D=8.49	E=6.09	F=19.8	PP natural
1007030005	WZ-048-PP	4.0~4.8 mm	1/4-28UNF	A1=Φ3.94	A2=Φ4.50	B=Φ4.80	C=Φ6.80	D=8.00	E=6	F=22.5	PP natural
1007030006	M8-064-PP	4.8~6.4 mm	M8	A1=Φ5.42	A2=Φ5.42	B=Φ6.40	C=Φ8.40	D=11.32	E=8	F=30.1	PP natural
1007030007	M10-087-PP	6.4~8.7 mm	M10	A1=Φ7.39	A2=Φ7.88	B=Φ8.50	C=Φ10.70	D=13.63	E=10	F=32.6	PP natural





## Barbed Union

- ◆ Plug-in hose connectors for easy and convenient hose connection
- ◆ PP material, non-toxic, odourless, heat resistant, resistant to chemical corrosion and various organic substances
- ◆ Radiation sterilisation available



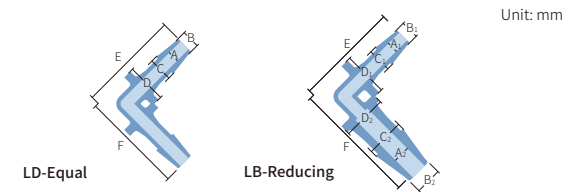
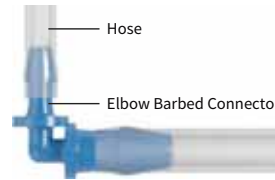
Unit: mm

SKU	Model No.	Tubing ID	Dimension (mm)						Material
<b>Equal Union</b>									
1008020001	DI-016	1.0-1.6 mm	A=Φ0.99	B=Φ1.60	C=Φ2.80	D=2.0	E=18	F=Φ7	PP natural
1008020002	DI-024	1.6-2.4 mm	A=Φ1.58	B=Φ2.40	C=Φ3.40	D=2.0	E=20	F=Φ7	PP natural
1008020003	DI-032	2.4-3.2 mm	A=Φ1.97	B=Φ3.20	C=Φ4.20	D=2.0	E=20	F=Φ7	PP natural
1008020004	DI-040	3.2-4.0 mm	A=Φ2.46	B=Φ4.00	C=Φ6.00	D=2.5	E=33.2	F=Φ10	PP natural
1008020005	DI-048	4.0-4.8 mm	A=Φ2.96	B=Φ4.80	C=Φ6.80	D=1.8	E=33.2	F=Φ10	PP natural
1008020006	DI-064	4.8-6.4 mm	A=Φ4.93	B=Φ6.40	C=Φ8.40	D=3.0	E=40	F=Φ14	PP natural
1008020007	DI-087	6.4-8.7 mm	A=Φ6.40	B=Φ8.70	C=Φ10.70	D=3.0	E=40	F=Φ14	PP natural
1008020031	DI-095	8.7-9.5 mm	A=Φ7.00	B=Φ9.50	C=Φ11.60	D=1.6	E=45.40	F=Φ13.2	PP natural
1008020032	DI-127	9.5-12.7 mm	A=Φ9.50	B=Φ12.7	C=Φ14.50	D=1.6	E=54.40	F=Φ15.9	PP natural
<b>Reducing Union</b>									
1008020008	BI-016/024	(1.0-1.6) / (1.6-2.4) mm	A <sub>1</sub> =Φ0.99 A <sub>2</sub> =Φ1.70	B <sub>1</sub> =Φ1.60 B <sub>2</sub> =Φ2.40	C <sub>1</sub> =Φ2.80 C <sub>2</sub> =Φ3.40	D=2.0	E=19.5	F=Φ7	PP natural
1008020009	BI-016/032	(1.0-1.6) / (2.4-3.2) mm	A <sub>1</sub> =Φ0.99 A <sub>2</sub> =Φ1.97	B <sub>1</sub> =Φ1.60 B <sub>2</sub> =Φ3.20	C <sub>1</sub> =Φ2.80 C <sub>2</sub> =Φ4.20	D=2.0	E=21.5	F=Φ7	PP natural
1008020010	BI-024/032	(1.6-2.4) / (2.4-3.2) mm	A <sub>1</sub> =Φ1.58 A <sub>2</sub> =Φ1.97	B <sub>1</sub> =Φ2.40 B <sub>2</sub> =Φ3.20	C <sub>1</sub> =Φ3.40 C <sub>2</sub> =Φ4.20	D=2.0	E=21.5	F=Φ7	PP natural
1008020011	BI-024/040	(1.6-2.4) / (3.2-4.0) mm	A <sub>1</sub> =Φ1.58 A <sub>2</sub> =Φ2.46	B <sub>1</sub> =Φ2.40 B <sub>2</sub> =Φ4.00	C <sub>1</sub> =Φ3.40 C <sub>2</sub> =Φ6.00	D=2.0	E=27.9	F=Φ10	PP natural
1008020012	BI-032/040	(2.4-3.2) / (3.2-4.0) mm	A <sub>1</sub> =Φ1.97 A <sub>2</sub> =Φ2.46	B <sub>1</sub> =Φ3.20 B <sub>2</sub> =Φ4.00	C <sub>1</sub> =Φ4.20 C <sub>2</sub> =Φ6.00	D=2.0	E=28.9	F=Φ10	PP natural
1008020013	BI-032/048	(2.4-3.2) / (4.0-4.8) mm	A <sub>1</sub> =Φ1.97 A <sub>2</sub> =Φ3.45	B <sub>1</sub> =Φ3.20 B <sub>2</sub> =Φ4.80	C <sub>1</sub> =Φ4.20 C <sub>2</sub> =Φ6.80	D=2.0	E=30.7	F=Φ10	PP natural
1008020014	BI-040/048	(3.2-4.0) / (4.0-4.8) mm	A <sub>1</sub> =Φ2.96 A <sub>2</sub> =Φ3.45	B <sub>1</sub> =Φ4.00 B <sub>2</sub> =Φ4.80	C <sub>1</sub> =Φ6.00 C <sub>2</sub> =Φ6.80	D=2.0	E=33.1	F=Φ10	PP natural
1008020015	BI-040/064	(3.2-4.0) / (4.8-6.4) mm	A <sub>1</sub> =Φ2.96 A <sub>2</sub> =Φ5.42	B <sub>1</sub> =Φ4.00 B <sub>2</sub> =Φ6.35	C <sub>1</sub> =Φ6.00 C <sub>2</sub> =Φ8.35	D=2.5	E=36.75	F=Φ14	PP natural
1008020016	BI-048/064	(4.0-4.8) / (4.8-6.4) mm	A <sub>1</sub> =Φ3.94 A <sub>2</sub> =Φ5.42	B <sub>1</sub> =Φ4.80 B <sub>2</sub> =Φ6.35	C <sub>1</sub> =Φ6.80 C <sub>2</sub> =Φ8.35	D=2.5	E=36.85	F=Φ14	PP natural
1008020017	BI-048/087	(4.0-4.8) / (6.4-8.7) mm	A <sub>1</sub> =Φ3.45 A <sub>2</sub> =Φ6.90	B <sub>1</sub> =Φ4.80 B <sub>2</sub> =Φ8.70	C <sub>1</sub> =Φ6.80 C <sub>2</sub> =Φ10.70	D=2.5	E=36.85	F=Φ14	PP natural
1008020018	BI-064/087	(4.8-6.4) / (6.4-8.7) mm	A <sub>1</sub> =Φ4.93 A <sub>2</sub> =Φ6.90	B <sub>1</sub> =Φ6.35 B <sub>2</sub> =Φ8.70	C <sub>1</sub> =Φ8.35 C <sub>2</sub> =Φ10.70	D=2.5	E=40	F=Φ14	PP natural
1008020033	BI-095/127	(8.7-9.5) / (9.5-12.7) mm	A <sub>1</sub> =Φ7.00 A <sub>2</sub> =Φ9.50	B <sub>1</sub> =Φ9.50 B <sub>2</sub> =Φ12.70	C <sub>1</sub> =Φ11.60 C <sub>2</sub> =Φ14.50	D=1.6	E=49.9	F=Φ16.85	PP natural



## Elbow Barbed Connector

- ◆ Plug-in hose connectors for easy and convenient hose connection to meet elbow flow path design requirements
- ◆ PP material, non-toxic, odourless, heat resistant, resistant to chemical corrosion and various organic substances
- ◆ Radiation sterilisation available



Unit: mm

SKU	Model No.	Tubing ID	Dimension (mm)						Material
<b>Equal</b>									
1008060001	LD-016	1.0-1.6 mm	A=Φ0.79	B=Φ1.60	C=Φ2.80	D=Φ5	E=14.9	F=14.9	PP natural
1008060002	LD-024	1.6-2.4 mm	A=Φ1.58	B=Φ2.40	C=Φ3.60	D=Φ5	E=14.7	F=14.7	PP natural
1008060003	LD-032	2.4-3.2 mm	A=Φ1.97	B=Φ3.20	C=Φ4.20	D=Φ7	E=18	F=18	PP natural
1008060004	LD-040	3.2-4.0 mm	A=Φ2.46	B=Φ4.00	C=Φ6.00	D=Φ8	E=22.9	F=22.9	PP natural
1008060005	LD-048	4.0-4.8 mm	A=Φ2.96	B=Φ4.80	C=Φ6.80	D=Φ9	E=23.9	F=23.9	PP natural
1008060006	LD-064	4.8-6.4 mm	A=Φ4.93	B=Φ6.40	C=Φ8.40	D=Φ12	E=32.5	F=32.5	PP natural
1008060007	LD-087	6.4-8.7 mm	A=Φ6.40	B=Φ8.70	C=Φ10.70	D=Φ14	E=33.8	F=35	PP natural
1008060008	LD-095	8.7-9.5 mm	A=Φ7.39	B=Φ9.50	C=Φ11.50	D=Φ15	E=38	F=38	PP natural
1008060024	LD-127	9.5-12.7 mm	A=Φ9.80	B=Φ11.8	C=Φ13.90	D=Φ13.7	E=33	F=33	PP natural
<b>Reducing</b>									
1008060009	LB-016/024	(1.0-1.6) / (1.6-2.4) mm	A <sub>1</sub> =Φ0.79 A <sub>2</sub> =Φ1.58	B <sub>1</sub> =Φ1.60 B <sub>2</sub> =Φ2.40	C <sub>1</sub> =Φ2.80 C <sub>2</sub> =Φ3.60	D <sub>1</sub> =Φ5 D <sub>2</sub> =Φ5.5	E=14.7	F=14.9	PP natural
1008060010	LB-016/032	(1.0-1.6) / (2.4-3.2) mm	A <sub>1</sub> =Φ0.79 A <sub>2</sub> =Φ1.97	B <sub>1</sub> =Φ1.60 B <sub>2</sub> =Φ3.20	C <sub>1</sub> =Φ2.80 C <sub>2</sub> =Φ4.20	D <sub>1</sub> =Φ5 D <sub>2</sub> =Φ5.5	E=14.7	F=15.7	PP natural
1008060011	LB-024/032	(1.6-2.4) / (2.4-3.2) mm	A <sub>1</sub> =Φ1.58 A <sub>2</sub> =Φ1.97	B <sub>1</sub> =Φ2.40 B <sub>2</sub> =Φ3.20	C <sub>1</sub> =Φ3.60 C <sub>2</sub> =Φ4.20	D <sub>1</sub> =Φ5 D <sub>2</sub> =Φ6	E=15.7	F=16.7	PP natural
1008060012	LB-024/040	(1.6-2.4) / (3.2-4.0) mm	A <sub>1</sub> =Φ1.58 A <sub>2</sub> =Φ2.46	B <sub>1</sub> =Φ2.40 B <sub>2</sub> =Φ4.00	C <sub>1</sub> =Φ3.60 C <sub>2</sub> =Φ6.00	D <sub>1</sub> =Φ6 D <sub>2</sub> =Φ6	E=15.7	F=20.6	PP natural
1008060013	LB-032/040	(2.4-3.2) / (3.2-4.0) mm	A <sub>1</sub> =Φ1.97 A <sub>2</sub> =Φ2.46	B <sub>1</sub> =Φ3.20 B <sub>2</sub> =Φ4.00	C <sub>1</sub> =Φ4.20 C <sub>2</sub> =Φ6.00	D <sub>1</sub> =Φ7 D <sub>2</sub> =Φ7	E=18	F=21.9	PP natural
1008060014	LB-032/048	(2.4-3.2) / (4.0-4.8) mm	A <sub>1</sub> =Φ1.97 A <sub>2</sub> =Φ2.96	B <sub>1</sub> =Φ3.20 B <sub>2</sub> =Φ4.80	C <sub>1</sub> =Φ4.20 C <sub>2</sub> =Φ6.80	D <sub>1</sub> =Φ8 D <sub>2</sub> =Φ8	E=19	F=22.9	PP natural
1008060015	LB-040/048	(3.2-4.0) / (4.0-4.8) mm	A <sub>1</sub> =Φ2.46 A <sub>2</sub> =Φ2.96	B <sub>1</sub> =Φ4.00 B <sub>2</sub> =Φ4.80	C <sub>1</sub> =Φ6.00 C <sub>2</sub> =Φ6.80	D <sub>1</sub> =Φ8 D <sub>2</sub> =Φ8	E=22.9	F=22.9	PP natural
1008060016	LB-040/064	(3.2-4.0) / (4.8-6.4) mm	A <sub>1</sub> =Φ2.46 A <sub>2</sub> =Φ4.93	B <sub>1</sub> =Φ4.00 B <sub>2</sub> =Φ6.40	C <sub>1</sub> =Φ6.00 C <sub>2</sub> =Φ8.40	D <sub>1</sub> =Φ10 D <sub>2</sub> =Φ10	E=24.9	F=31	PP natural
1008060017	LB-048/064	(4.0-4.8) / (4.8-6.4) mm	A <sub>1</sub> =Φ2.96 A <sub>2</sub> =Φ4.93	B <sub>1</sub> =Φ4.80 B <sub>2</sub> =Φ6.40	C <sub>1</sub> =Φ6.80 C <sub>2</sub> =Φ8.40	D <sub>1</sub> =Φ12 D <sub>2</sub> =Φ12	E=26.9	F=33	PP natural
1008060018	LB-048/087	(4.0-4.8) / (6.4-8.7) mm	A <sub>1</sub> =Φ2.96 A <sub>2</sub> =Φ6.40	B <sub>1</sub> =Φ4.80 B <sub>2</sub> =Φ8.70	C <sub>1</sub> =Φ6.80 C <sub>2</sub> =Φ10.70	D <sub>1</sub> =Φ12 D <sub>2</sub> =Φ12	E=26.9	F=33	PP natural
1008060019	LB-064/087	(4.8-6.4) / (6.4-8.7) mm	A <sub>1</sub> =Φ4.93 A <sub>2</sub> =Φ6.40	B <sub>1</sub> =Φ6.40 B <sub>2</sub> =Φ8.70	C <sub>1</sub> =Φ8.40 C <sub>2</sub> =Φ10.70	D <sub>1</sub> =Φ15 D <sub>2</sub> =Φ15	E=35.5	F=36	PP natural
1008060020	LB-064/095	(4.8-6.4) / (8.7-9.5) mm	A <sub>1</sub> =Φ4.93 A <sub>2</sub> =Φ7.39	B <sub>1</sub> =Φ6.40 B <sub>2</sub> =Φ9.50	C <sub>1</sub> =Φ8.40 C <sub>2</sub> =Φ11.50	D <sub>1</sub> =Φ15 D <sub>2</sub> =Φ15	E=35.5	F=38	PP natural
1008060021	LB-087/095	(6.4-8.7) / (8.7-9.5) mm	A <sub>1</sub> =Φ6.40 A <sub>2</sub> =Φ7.39	B <sub>1</sub> =Φ8.70 B <sub>2</sub> =Φ9.50	C <sub>1</sub> =Φ10.70 C <sub>2</sub> =Φ11.50	D <sub>1</sub> =Φ14 D <sub>2</sub> =Φ14	E=35	F=37	PP natural
1008060025	LB-095/127	(8.7-9.5) / (9.5-12.7) mm	A <sub>1</sub> =Φ7.80 A <sub>2</sub> =Φ9.80	B <sub>1</sub> =Φ10.0 B <sub>2</sub> =Φ12.0	C <sub>1</sub> =Φ11.10 C <sub>2</sub> =Φ13.15	D <sub>1</sub> =Φ11.70 D <sub>2</sub> =Φ13.75	E=29.8	F=28	PP natural

PEEK Fitting

Threaded Fitting

Barb-to-Thread Adapter

Barbed Connector

Tubing

PEEK Fitting

Threaded Fitting

Barb-to-Thread Adapter

Barbed Connector

Tubing



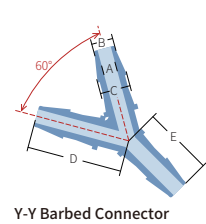
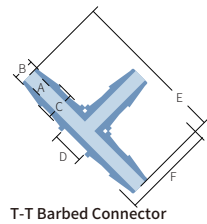
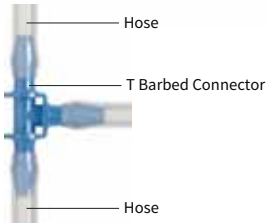
## T Barbed Connector

- ◆ Plug-in hose connectors for easy and convenient application, three hoses of the same inner diameter can be connected together
- ◆ PP material, non-toxic, odourless, heat resistant, resistant to chemical corrosion and various organic substances
- ◆ Radiation sterilisation available



## Y Barbed Connector

- ◆ Plug-in hose connectors for easy and convenient application, three hoses of the same inner diameter can be connected together
- ◆ Y-connection geometry reduces turbulence and increases sensitivity
- ◆ PP material, non-toxic, odourless, heat resistant, resistant to chemical corrosion and various organic substances
- ◆ Radiation sterilisation available



Unit: mm

### Related Products

► For suitable hose tubing, please refer to pages 65 to 67

- Rubber tube — page 65
- Viton rubber tube — page 66
- Silicone hoses — page 67

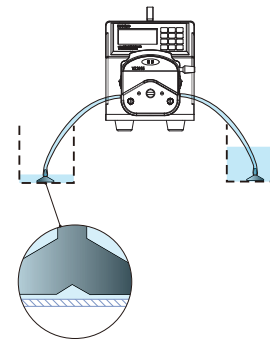
SKU	Model No.	Tubing ID	Dimension (mm)						Material
<b>T Barbed Connector</b>									
1008010001	T-016	0.8-1.6mm	A=Φ1.08	B=Φ1.82	C=Φ2.45	D=2.2	E=12.8	F=7.73	PP natural
1008010002	T-020	1.6-2.0 mm	A=Φ1.08	B=Φ2.00	C=Φ3.00	D=3.5	E=17.7	F=10.9	PP natural
1008010003	T-024	2.0-2.4 mm	A=Φ1.58	B=Φ2.50	C=Φ3.50	D=3.8	E=18.6	F=11.3	PP natural
1008010005	T-032	2.4-3.2 mm	A=Φ2.36	B=Φ3.30	C=Φ4.80	D=5.2	E=26	F=15.65	PP natural
1008010006	T-040	3.2-4.0 mm	A=Φ2.96	B=Φ4.00	C=Φ6.00	D=8.8	E=39	F=24.5	PP natural
1008010007	T-048	4.0-4.8 mm	A=Φ3.94	B=Φ4.80	C=Φ6.80	D=8.8	E=39	F=24.5	PP natural
1008010008	T-064	4.8-6.4 mm	A=Φ5.42	B=Φ6.40	C=Φ8.70	D=11	E=52.4	F=32.2	PP natural
1008010009	T-087	6.4-8.7 mm	A=Φ7.78	B=Φ8.70	C=Φ10.70	D=13	E=55	F=34.5	PP natural
1008010020	T-095	8.7-9.5 mm	A=Φ7.95	B=Φ9.00	C=Φ11.95	D=12.9	E=65.7	F=41.9	PP natural
1008010021	T-127	9.5-12.7 mm	A=Φ10.70	B=Φ12.7	C=Φ14.95	D=17.7	E=74.2	F=47.1	PP natural
<b>Y Barbed Connector</b>									
1008010010	Y-016	0.8-1.6mm	A=Φ1.18	B=Φ1.82	C=Φ2.45	D=7.12	E=6.15		PP natural
1008010011	Y-020	1.6-2.0 mm	A=Φ1.08	B=Φ2.00	C=Φ2.80	D=8.00	E=7.00		PP natural
1008010012	Y-024	2.0-2.4 mm	A=Φ1.58	B=Φ2.50	C=Φ3.50	D=10.98	E=8.04		PP natural
1008010013	Y-032	2.4-3.2 mm	A=Φ2.36	B=Φ3.30	C=Φ4.80	D=13.80	E=11.30		PP natural
1008010014	Y-040	3.2-4.0 mm	A=Φ2.96	B=Φ4.00	C=Φ6.00	D=20.90	E=18.90		PP natural
1008010015	Y-048	4.0-4.8 mm	A=Φ4.00	B=Φ4.87	C=Φ6.90	D=21.30	E=19.30		PP natural
1008010016	Y-064	4.8-6.4 mm	A=Φ5.50	B=Φ6.45	C=Φ8.48	D=28.93	E=25.88		PP natural
1008010017	Y-087	6.4-8.7 mm	A=Φ7.50	B=Φ8.63	C=Φ10.86	D=31.68	E=26.30		PP natural
1008010022	Y-095	8.7-9.5 mm	A=Φ8.25	B=Φ9.50	C=Φ11.85	D=40.0	E=29.00		PP natural
1008010023	Y-127	9.5-12.7 mm	A=Φ10.0	B=Φ12.6	C=Φ14.40	D=40.60	E=27.20		PP natural



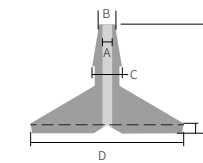
## Barbed Sink Head

- ◆ Sink the hose. Commonly used to connect the external tube of the peristaltic pump to prevent the tubing from twisting, floating and the liquid splashing
- ◆ Plug-in type, simple & convenient to use. Anti-slip and catch-edge design for no leakage
- ◆ SUS304 stainless steel material, safe and hygienic, featured with high strength, excellent heat resistance, anti-corrosion and no magnetic

### Application Note



The bottom of the barbed sink head is designed with a 120° groove, which enables the liquid to flow out stably in time while maintaining its own stability.



Unit: mm

### Related Products

► For suitable hose tubing, please refer to pages 65 to 67

- Rubber tube — page 65
- Viton rubber tube — page 66
- Silicone hoses — page 67

SKU	Model No.	Tubing ID	Dimension (mm)						Material
<b>Barbed Sink Head</b>									
1008020021	CT-016	1.0-1.6 mm	A=Φ0.99	B=Φ1.60	C=Φ2.80	D=Φ15	E=1	F=10.7	SUS304
1008020022	CT-024	1.6-2.4 mm	A=Φ1.58	B=Φ2.40	C=Φ3.40	D=Φ25	E=2	F=14	SUS304
1008020023	CT-032	2.4-3.2 mm	A=Φ1.97	B=Φ3.20	C=Φ4.20	D=Φ25.7	E=2.5	F=15.2	SUS304
1008020024	CT-040	3.2-4.0 mm	A=Φ2.96	B=Φ4.00	C=Φ6.00	D=Φ27.3	E=3	F=20	SUS304
1008020025	CT-048	4.0-4.8 mm	A=Φ3.45	B=Φ4.80	C=Φ6.80	D=Φ35.6	E=3.5	F=23	SUS304
1008020026	CT-064	4.8-6.4 mm	A=Φ4.93	B=Φ6.40	C=Φ8.40	D=Φ40.7	E=4	F=25.8	SUS304
1008020027	CT-087	6.4-8.7 mm	A=Φ6.40	B=Φ8.700	C=Φ10.70	D=Φ45.2	E=5	F=27	SUS304



**Application Note**

**Step 1.** Drill the hole for connector and mounting in the panel as required, the location and size of the holes are as shown in the diagram below.

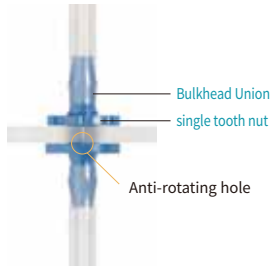
**Step 2.** Insert connector on one end of the panel, the mounting holes under

the connector Barb1 port correspond to the position of the mounting holes on the panel.

**Step 3.** The other end is screwed into the matching single thread flower nut and tightened. The fitting is completed.

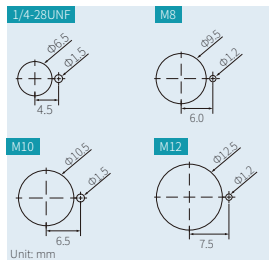
**Step 4.** Cut the hose as required with the special hose cutter

**Step 5.** Insert the barbed head at both ends of the fitting into the hose. (pressure) the ferrules should be replaced



※ Panel thickness ≤ 3mm

※ The panel needs to be drilled before the connection is made, and the size of the hole is marked as follows.



**Related Products**

► For suitable hose tubing, please refer to pages 65 to 66

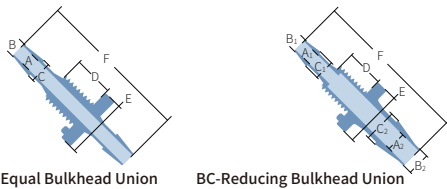
- Rubber tube — page 65
- Viton rubber tube — page 66
- Silicone hoses — page 67

# Barbed Bulkhead Union

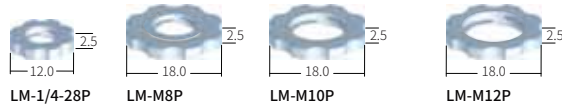
## —two piece set

- ◆ Plug-in hose connector that goes through the housing of the unit to connect the internal hose to the outside; anti-rotation holes prevent the connector from rotation .Easy and convenient to use.
- ◆ PP material, non-toxic, odourless, heat resistant, resistant to chemical corrosion and various organic substances
- ◆ Radiation sterilisation available

**Nut(mm)**



**single tooth nut(mm)**



**Related Products**

► For M10 and M12, PPS thin pitch nuts can be purchased for use with a Bulkhead Nut Wrench to make tightening the joint easier.



SKU	Model No.	Note
1006090016	15mm-S	Bulkhead nut spanner
1006090022	M10*1-S	M10 thin pitch nuts
1006090005	M12*1-S	M10 thin pitch nuts

► For suitable hose tubing, please refer to pages 65 to 67

- Rubber tube — page 65
- Viton rubber tube — page 66
- Silicone hoses — page 67

SKU	Model No.	Thread	Tubing ID	Dimension (mm)						Material
<b>Equal Bulkhead Union</b>										
1008030046	DC-016-1/4-28-016P * LM-1/4-28P	1/4-28UNF	1.0-1.6 mm	A=Φ0.99	B=Φ1.60	C=Φ2.80	D=7.6	E=12	F=27.7	PP natural
1008030047	DC-024-1/4-28-024P * LM-1/4-28P	1/4-28UNF	1.6-2.4 mm	A=Φ1.58	B=Φ2.40	C=Φ3.40	D=7.7	E=12	F=27.7	PP natural
1008030048	DC-032-1/4-28-032P * LM-1/4-28P	1/4-28UNF	2.4-3.2 mm	A=Φ2.46	B=Φ3.20	C=Φ4.20	D=7.7	E=12	F=29.7	PP natural
1008030049	DC-040-M8-040P * LM-M8P	M8	3.2-4.0 mm	A=Φ2.46	B=Φ4.00	C=Φ6.00	D=8.0	E=18	F=36.51	PP natural
1008030050	DC-048-M8-048P * LM-M8P	M8	4.0-4.8 mm	A=Φ3.94	B=Φ4.80	C=Φ6.80	D=8.0	E=18	F=37.3	PP natural
1008030051	DC-064-M10-064P * LM-M10P	M10	4.8-6.4 mm	A=Φ5.42	B=Φ6.40	C=Φ8.40	D=8.0	E=18	F=48.7	PP natural
1008030061	DC-087-M12-087P * LM-M12P	M12	6.4-8.7 mm	A=Φ7.39	B=Φ8.70	C=Φ10.70	D=8.0	E=18	F=49.7	PP natural
<b>Reducing Bulkhead Union</b>										
1008030052	BC-016-1/4-28-024P * LM-1/4-28P	1/4-28UNF	1.0-1.6 mm 1.6-2.4 mm	A <sub>1</sub> =Φ0.99 A <sub>2</sub> =Φ1.58	B <sub>1</sub> =Φ1.60 B <sub>2</sub> =Φ2.40	C <sub>1</sub> =Φ2.80 C <sub>2</sub> =Φ3.40	D=7.7	E=12	F=27.7	PP natural
1008030053	BC-016-1/4-28-032P * LM-1/4-28P	1/4-28UNF	1.0-1.6 mm 2.4-3.2 mm	A <sub>1</sub> =Φ0.99 A <sub>2</sub> =Φ2.46	B <sub>1</sub> =Φ1.60 B <sub>2</sub> =Φ3.20	C <sub>1</sub> =Φ2.80 C <sub>2</sub> =Φ4.20	D=7.6	E=12	F=27.7	PP natural
1008030054	BC-024-1/4-28-032P * LM-1/4-28P	1/4-28UNF	1.6-2.4 mm 2.4-3.2 mm	A <sub>1</sub> =Φ1.58 A <sub>2</sub> =Φ2.46	B <sub>1</sub> =Φ2.40 B <sub>2</sub> =Φ3.20	C <sub>1</sub> =Φ3.40 C <sub>2</sub> =Φ4.20	D=7.6	E=12	F=28.5	PP natural
1008030056	BC-024-1/4-28-048P * LM-1/4-28P	1/4-28UNF	1.6-2.4 mm 4.0-4.8 mm	A <sub>1</sub> =Φ1.58 A <sub>2</sub> =Φ3.94	B <sub>1</sub> =Φ2.40 B <sub>2</sub> =Φ4.80	C <sub>1</sub> =Φ3.40 C <sub>2</sub> =Φ6.80	D=7.7	E=12	F=32.4	PP natural
1008030055	BC-032-1/4-28-048P * LM-1/4-28P	1/4-28UNF	2.4-3.2 mm 4.0-4.8 mm	A <sub>1</sub> =Φ2.46 A <sub>2</sub> =Φ3.94	B <sub>1</sub> =Φ3.20 B <sub>2</sub> =Φ4.80	C <sub>1</sub> =Φ4.20 C <sub>2</sub> =Φ6.80	D=7.7	E=12	F=32.4	PP natural
1008030057	BC-032-1/4-28-064P * LM-1/4-28P	1/4-28UNF	2.4-3.2 mm 4.8-6.4 mm	A <sub>1</sub> =Φ2.46 A <sub>2</sub> =Φ5.42	B <sub>1</sub> =Φ3.20 B <sub>2</sub> =Φ6.40	C <sub>1</sub> =Φ4.20 C <sub>2</sub> =Φ8.40	D=7.7	E=12	F=33.5	PP natural
1008030058	BC-048-M8-064P * LM-M8P	M8	3.2-4.8 mm 4.8-6.4 mm	A <sub>1</sub> =Φ3.94 A <sub>2</sub> =Φ5.42	B <sub>1</sub> =Φ4.80 B <sub>2</sub> =Φ6.40	C <sub>1</sub> =Φ6.80 C <sub>2</sub> =Φ8.40	D=8.0	E=18	F=39.9	PP natural
1008030059	BC-064-M10-087P * LM-M10P	M10	4.8-6.4 mm 6.4-8.7 mm	A <sub>1</sub> =Φ5.42 A <sub>2</sub> =Φ7.93	B <sub>1</sub> =Φ6.40 B <sub>2</sub> =Φ8.70	C <sub>1</sub> =Φ8.40 C <sub>2</sub> =Φ10.70	D=8.0	E=18	F=49.2	PP natural
1008030060	BC-064-M10-127P * LM-M10P	M10	4.8-6.4 mm 8.7-12.7 mm	A <sub>1</sub> =Φ4.93 A <sub>2</sub> =Φ10.34	B <sub>1</sub> =Φ6.40 B <sub>2</sub> =Φ12.70	C <sub>1</sub> =Φ8.40 C <sub>2</sub> =Φ14.70	D=8.0	E=18	F=48.5	PP natural
1008030062	BC-087-M12-127P * LM-M12P	M12	6.4-8.7 mm 8.7-12.7 mm	A <sub>1</sub> =Φ7.39 A <sub>2</sub> =Φ10.34	B <sub>1</sub> =Φ8.70 B <sub>2</sub> =Φ12.70	C <sub>1</sub> =Φ10.70 C <sub>2</sub> =Φ14.70	D=8.0	E=18	F=52.7	PP natural



## Barbed Check Valve

- The opening and closing parts rely on the medium flow and force to open or close themselves to prevent the backflow of the medium valve, mainly used for one-way flow of the medium on the tube, allowing the medium to flow in one direction only, to prevent reverse flow
- Coned check valve, spring check valve and diaphragm check valve for your choice
- Plug-in hose connectors for easy and convenient application.

### tips

#### Diaphragm check valve



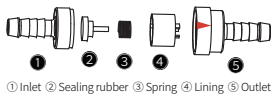
Unlock pressure > 2kPa  
Back pressure < 300kPa

#### Coned check valve



Unlock pressure > 2kPa  
Back pressure < 300kPa

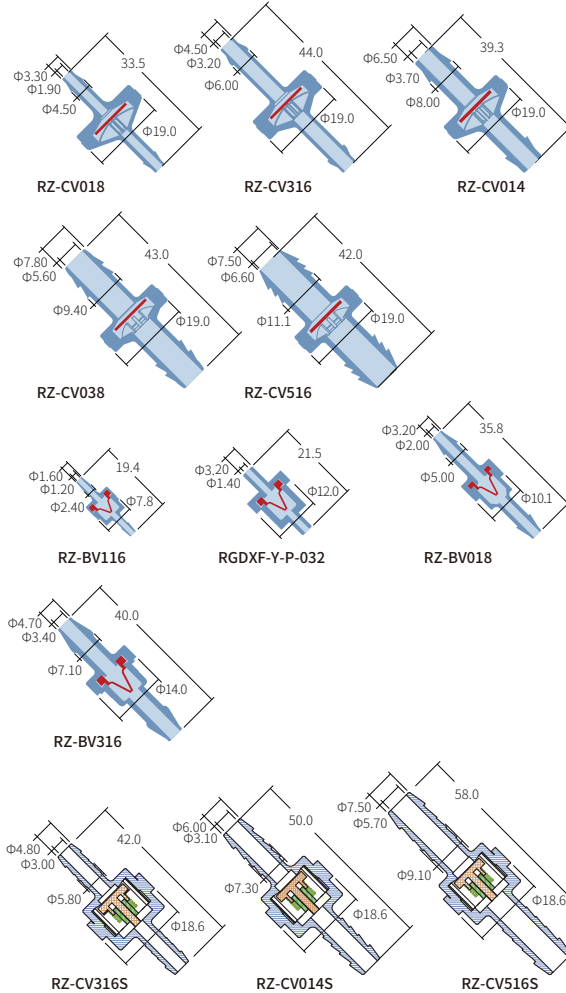
#### Fuel spring check valve



Unlock pressure > 5kPa  
Back pressure < 300kPa

Note: the ratio of the physical connector to the picture is 4:3

Unit: mm



### Spring check valve

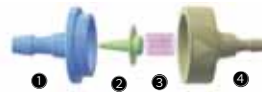
#### ① Equal Spring Check Valve



① Inlet ② O sealing ring ③ Steel ball ④ Spring ⑤ Outlet

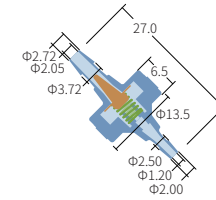
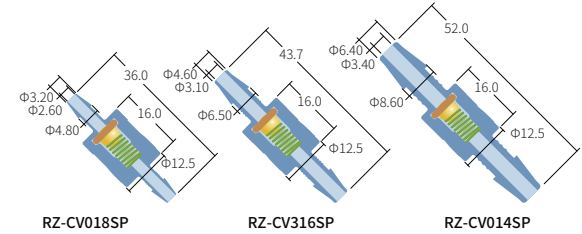
Unlock pressure > 5kPa  
Back pressure < 300kPa

#### ② Reducing Spring Check Valve



① Inlet ② Silicone gasket ③ Spring ④ Outlet

Unlock pressure < 3kPa  
Back pressure > 100kPa



SKU	Model No.	Barbed End	Tubing ID	Diaphragm Material	Valve Material
<b>Diaphragm check valve</b>					
1008040138	RZ-CV018PAF	1/8	2.5-4.0 mm	Viton	Nylon(two color)
1008040142	RZ-CV018ABS	1/8	2.5-4.0 mm	Silicone	ABS(two color)
1008040147	RZ-CV018PPF	1/8	2.5-4.0 mm	Viton	PP
1008040150	RZ-CV018PPE	1/8	2.5-4.0 mm	EPDM	PP
1008040151	RZ-CV018PDF	1/8	2.5-4.0 mm	Viton	PVDF
1008040152	RZ-CV018PCF	1/8	2.5-4.0 mm	Viton	PC(transparent)
1008040153	RZ-CV316PAF	3/16	4.0-5.5 mm	Viton	Nylon(two color)
1008040154	RZ-CV316ABS	3/16	4.0-5.5 mm	Silicone	ABS(two color)
1008040156	RZ-CV316PPF	3/16	4.0-5.5 mm	Viton	PP
1008040157	RZ-CV316PDF	3/16	4.0-5.5 mm	Viton	PVDF
1008040158	RZ-CV316PCF	3/16	4.0-5.5 mm	Viton	PC(transparent)
1008040143	RZ-CV014PAF	1/4	6.0-7.5 mm	Viton	Nylon(two color)
1008040160	RZ-CV014ABS	1/4	6.0-7.5 mm	Silicone	ABS
1008040161	RZ-CV014PPF	1/4	6.0-7.5 mm	Viton	PP
1008040162	RZ-CV014PDF	1/4	6.0-7.5 mm	Viton	PVDF
1008040163	RZ-CV014PCF	1/4	6.0-7.5 mm	Viton	PC(transparent)
1008040146	RZ-CV516PAF	5/16	7.0-9.0 mm	Viton	Nylon(two color)
1008040164	RZ-CV516ABS	5/16	7.0-9.0 mm	Silicone	ABS(two color)
1008040165	RZ-CV516PPF	5/16	7.0-9.0 mm	Viton	PP
1008040166	RZ-CV516PDF	5/16	7.0-9.0 mm	Viton	PVDF
1008040167	RZ-CV516PCF	5/16	7.0-9.0 mm	Viton	PC(transparent)
1008040144	RZ-CV038PAF	3/8	8.5-10.5 mm	Viton	Nylon(two color)
1008040168	RZ-CV038ABS	3/8	8.5-10.5 mm	Silicone	ABS(two color)
1008040170	RZ-CV038PPF	3/8	8.5-10.5 mm	Viton	PP
1008040172	RZ-CV038PDF	3/8	8.5-10.5 mm	Viton	PVDF
1008040173	RZ-CV038PCF	3/8	8.5-10.5 mm	Viton	PC(transparent)

Coned check valve							
SKU	Model No.	Barbed End	Tubing ID	Sealing Material	Valve Material		
1008040183	RZ-BV116PDE	1/16	1.0-1.6 mm	EPDM	PVDF		
1008040188	RZ-BV116PPS	1/16	1.0-1.6 mm	Silicone	PP		
1008040002	RZ-BV018PPFVMQ	1/8	1.6-2.4 mm	Viton Silicone	PP		
1008040176	RZ-BV018PPF	1/8	2.5-4.0 mm	Viton	PP		
1008040177	RZ-BV018PPS	1/8	2.5-4.0 mm	Silicone	PP		
1008040178	RZ-BV316PPFVMQ	3/16	4.5-6.0 mm	Viton Silicone	PP		
1008040179	RZ-BV316PDFVMQ	3/16	4.5-6.0 mm	Viton Silicone	PVDF		
Equal Spring Check Valve							
SKU	Model No.	Barbed End	Tubing ID	Valve Material	Diaphragm Material	Valve Material	
1008040139	RZ-CV018SPPOF	1/8	2.5-4.0 mm	SUS316L	Viton	PP	
1008040145	RZ-CV018SPDOF	1/8	2.5-4.0 mm	SUS316L	Viton	PVDF	
1008040174	RZ-CV316SPPOF	3/16	4.5-6.0 mm	SUS316L	Viton	PP	
1008040140	RZ-CV316SPDOF	3/16	4.5-6.0 mm	SUS316L	Viton	PVDF	
1008040141	RZ-CV014SPPOF	1/4	6.0-7.5 mm	SUS316L	Viton	PP	
1008040175	RZ-CV014SPDOF	1/4	6.0-7.5 mm	SUS316L	Viton	PVDF	
1008040180	RZ-CV316SPAF	3/16	4.5-5.5 mm	SUS316L	Viton	nylon	
1008040181	RZ-CV014SPAF	1/4	6.0-7.0 mm	SUS316L	Viton	nylon	
1008040182	RZ-CV516SPAF	5/16	7.0-8.5 mm	SUS316L	Viton	nylon	
Reducing Spring Check Valve							
SKU	Model No.	Inlet End	Outlet End	Tubing ID	Gasket Material	Diaphragm Material	Valve Material
1066070001	RZ-CV332-116SGPS	3/32	1/16	(1.6-2.5) / (1.0-1.6) mm	SUS316L	Silicone	PP





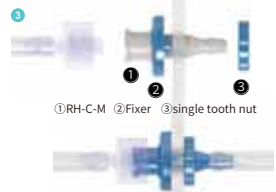
## Luer Adapter

- ◆ Luer adapter is standardized micro-permeation-free adapters that are usually connected by male and female luer part
- ◆ Simplifies the management of liquid or gaseous medical fluids and allows multiple compatible fluids to be managed using the same tube.
- ◆ PP material, non-toxic, odourless, heat resistant, resistant to chemical corrosion and various organic substances
- ◆ Radiation sterilisation available

### ★ Application Note

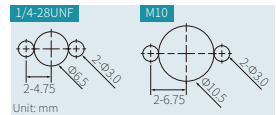


※ Hose connection available through male luer adapter + female luer adapter

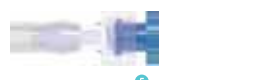


① RH-C-M ② Fixer ③ single tooth nut

※ Panel thickness must be ≤ 3mm  
 ※ The panel is to be pre-drilled prior to connection, with the following hole sizes as indicated:



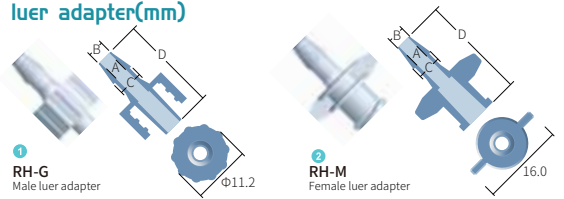
※ Luer Straight Adapter



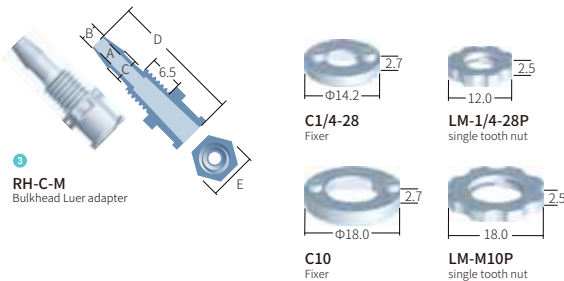
※ Luer plug, used with Luer adapters, for blocking the flow of liquid and gas

### luer adapter(mm)

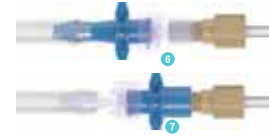
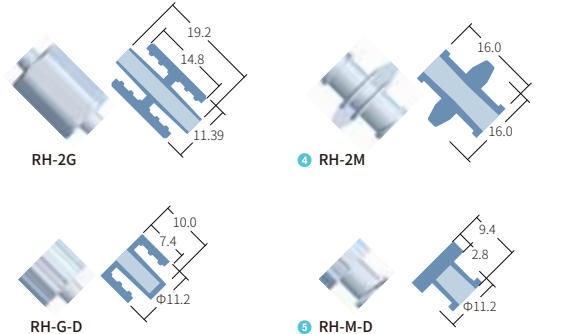
Unit: mm



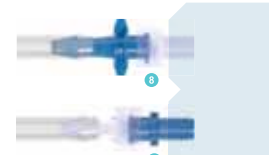
### Female luer bulkhead adapter(mm)



### Luer adapter(mm)



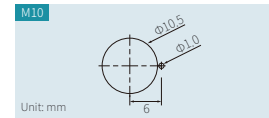
※ Female Luer adapter can be connected to 1/4-28UNF male fitting and the other end to Luer fitting



※ Male Luer adapter can be connected to 1/4-28UNF female thread, and the other end can be connected to Luer fitting



※ Panel thickness must be ≤ 7mm  
 ※ RH-M-M10W can be connected to 1/4-28UNF male thread adapter, and the other end is connected to a Luer adapter through a plate.



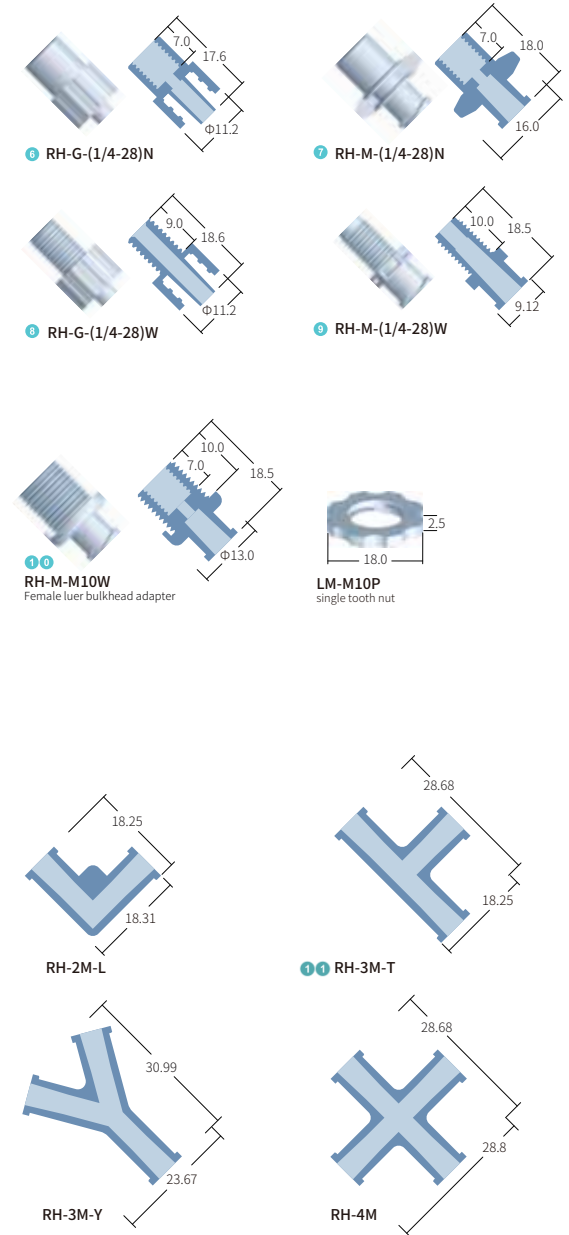
### Related Products

▶ For M10 and M12, PPS thin pitch nuts can be purchased for use with a Bulkhead Nut Wrench to make tightening the joint easier.



SKU	Model No.	Note
1006090016	15mm-S	Bulkhead nut spanner
1006090022	M10*1-S	M10 thin pitch nuts
1006090005	M12*1-S	M10 thin pitch nuts

### Luer adapter(mm)





### Related Products

► For suitable hose tubing, please refer to pages 65 to 67

- Rubber tube — page 65
- Viton rubber tube — page 66
- Silicone hoses — page 67

SKU	Model No.	Tubing ID	Dimension (mm)				Material		
<b>Male luer adapter</b>									
1008050006	RH-G016	1.0-1.6 mm	A=Φ0.99	B=Φ1.60	C=Φ2.80	D=18.6	PP natural		
1008050005	RH-G024	1.6-2.4 mm	A=Φ1.58	B=Φ2.40	C=Φ3.40	D=18.6	PP natural		
1008050004	RH-G032	2.4-3.2 mm	A=Φ2.46	B=Φ3.20	C=Φ4.20	D=19.6	PP natural		
1008050003	RH-G040	3.2-4.0 mm	A=Φ2.96	B=Φ4.00	C=Φ6.00	D=25	PP natural		
1008050002	RH-G048	4.0-4.8 mm	A=Φ3.94	B=Φ4.80	C=Φ6.80	D=25	PP natural		
1008050001	RH-G064	4.8-6.4 mm	A=Φ5.42	B=Φ6.35	C=Φ8.40	D=27.1	PP natural		
<b>Female luer adapter</b>									
1008050032	RH-M016	1.0-1.6 mm	A=Φ0.99	B=Φ1.60	C=Φ2.80	D=20	PP natural		
1008050031	RH-M024	1.6-2.4 mm	A=Φ1.58	B=Φ2.40	C=Φ3.40	D=20	PP natural		
1008050030	RH-M032	2.4-3.2 mm	A=Φ2.46	B=Φ3.20	C=Φ4.20	D=20	PP natural		
1008050029	RH-M040	3.2-4.0 mm	A=Φ2.46	B=Φ4.00	C=Φ6.00	D=27.5	PP natural		
1008050028	RH-M048	4.0-4.8 mm	A=Φ2.96	B=Φ4.80	C=Φ6.80	D=27.5	PP natural		
1008050027	RH-M064	4.8-6.4 mm	A=Φ4.43	B=Φ6.35	C=Φ8.40	D=27.5	PP natural		
<b>Bulkhead Luer adapter</b>									
SKU	Model No.	Tubing ID	Thread	Dimension (mm)			Material		
1008050037	RH-C-M016 * C1/4-28 * LM-1/4-28P	1.0-1.6 mm	1/4-28UNF	A=Φ0.99	B=Φ1.60	C=Φ2.40	D=25	E=9.12	PP natural
1008050038	RH-C-M024 * C1/4-28 * LM-1/4-28P	1.6-2.4 mm	1/4-28UNF	A=Φ1.58	B=Φ2.40	C=Φ3.40	D=25	E=9.12	PP natural
1008050039	RH-C-M032 * C1/4-28 * LM-1/4-28P	2.4-3.2 mm	1/4-28UNF	A=Φ2.46	B=Φ3.20	C=Φ4.20	D=25	E=9.12	PP natural
1008050040	RH-C-M040 * C10 * LM-M10P	3.2-4.0 mm	M10	A=Φ2.96	B=Φ4.00	C=Φ6.00	D=32.5	E=13.74	PP natural
1008050041	RH-C-M048 * C10 * LM-M10P	4.0-4.8 mm	M10	A=Φ3.94	B=Φ4.80	C=Φ6.80	D=32.5	E=13.74	PP natural
1008050042	RH-C-M064 * C10 * LM-M10P	4.8-6.4 mm	M10	A=Φ5.42	B=Φ6.35	C=Φ8.40	D=32.5	E=13.74	PP natural
<b>Female luer bulkhead adapter</b>									
1008050043	RH-M-M10W * LM-M10P		1/4 28UNF female thread/M10 male thread						PP natural
<b>Luer adapter</b>									
SKU	Model No.	Thread		Material					
1008050022	RH-G-(1/4-28)N	1/4-28UNF female thread		PP natural					
1008050023	RH-M-(1/4-28)N	1/4-28UNF female thread		PP natural					
1008050024	RH-G-(1/4-28)W	1/4-28UNF male thread		PP natural					
1008050026	RH-M-(1/4-28)W	1/4-28UNF male thread		PP natural					
1008050016	RH-2G			PP natural					
1008050017	RH-2M			PP natural					
1008050035	RH-G-D			PP natural					
1008050036	RH-M-D			PP natural					
1008050021	RH-2M-L			PP natural					
1008050018	RH-3M-T			PP natural					
1008050020	RH-3M-Y			PP natural					
1008050019	RH-4M			PP natural					

## Saint-Gobain Rubber Tube

Saint-Gobain tubing is standard choice for peristaltic pumps

- Excellent mechanical strength, autoclavable, stretchable, non-toxic, nonhemolytic
- Continuous operating temperature: -60°C to + 135°C
- Hardness: 64 A
- Compatible with most CIP solutions and SIP
- Breathability: 80 (for nitrogen test, the higher the value, the better the tube breathability, and vice versa).
- UV resistance: A
- Ozone resistance: B
- Resistance to acids and alkalis: average
- Pump tube service life: 1000 hours (this value is provided by Saint-Gobain and is for reference only)\*
- Certification: USP Class VI, FDA, NSF, ISO 10993
- ROHS Certified

Test conditions for pump tube service life : 17 tubes (6.4\*9.6\*1.6), at room temperature 23 degrees, with U.S. MasterFlex peristaltic pump and 3 roller Easy-Load pump head, at 600rpm, displacement back pressure: 0psi, media: water, continuous uninterrupted operation until the pump tube cracks ( the data is provided by Saint-Gobain, for reference only)

Model No.	ID	OD	WT (mm)	Colour
Saint-Gobain Rubber Tube				
Pharmed BPT-0038-008	0.38	1.98	0.8	Opaque beige
Pharmed BPT-0064-008	0.64	2.24	0.8	Opaque beige
Pharmed BPT-0076-008	0.76	2.36	0.8	Opaque beige
Pharmed BPT-0089-008	0.89	2.49	0.8	Opaque beige
Pharmed BPT-0102-008	1.02	2.62	0.8	Opaque beige
Pharmed BPT-0114-008	1.14	2.74	0.8	Opaque beige
Pharmed BPT-0130-008	1.30	2.90	0.8	Opaque beige
Pharmed BPT-0142-008	1.42	3.02	0.8	Opaque beige
Pharmed BPT-0152-008	1.52	3.12	0.8	Opaque beige
Pharmed BPT-0165-008	1.65	3.25	0.8	Opaque beige
Pharmed BPT-0185-008	1.85	3.45	0.8	Opaque beige
Pharmed BPT-0206-008	2.06	3.66	0.8	Opaque beige
Pharmed BPT-0229-008	2.29	3.89	0.8	Opaque beige
Pharmed BPT-0254-008	2.54	4.14	0.8	Opaque beige
Pharmed BPT-0279-008	2.79	4.39	0.8	Opaque beige
Pharmed BPT-0200-010	2.00	4.00	1.0	Opaque beige
Pharmed BPT-0300-010	3.00	5.00	1.0	Opaque beige
Pharmed BPT-0400-010	4.00	6.00	1.0	Opaque beige
Pharmed BPT-0080-016 (13#)	0.80	4.00	1.6	Opaque beige
Pharmed BPT-0160-016 (14#)	1.60	4.80	1.6	Opaque beige
Pharmed BPT-0240-016 (19#)	2.40	5.60	1.6	Opaque beige
Pharmed BPT-0320-016 (16#)	3.20	6.40	1.6	Opaque beige
Pharmed BPT-0400-016	4.00	7.20	1.6	Opaque beige
Pharmed BPT-0480-016 (25#)	4.80	8.00	1.6	Opaque beige
Pharmed BPT-0640-016 (17#)	6.40	9.60	1.6	Opaque beige
Pharmed BPT-0800-016 (18#)	8.00	11.20	1.6	Opaque beige
Pharmed BPT-0640-024 (24#)	6.40	11.20	2.4	Opaque beige
Pharmed BPT-0480-025 (15#)	4.80	9.80	2.5	Opaque beige
Pharmed BPT-0127-032 (82#)	12.7	19.10	3.2	Opaque beige
Pharmed BPT-0950-032 (73#)	9.50	15.90	3.2	Opaque beige

## MasterFlex Viton Tube

Viton is strong, resilient and flexible, provides excellent resistance to corrosive liquid such as acids, alkalis and some aggressive chemical solvents

- Continuous operating temperature: -32°C to +204°C
- Hardness: 75 A
- Ultra pure, non-toxic, excellent chemical inertness
- Breathability: low breathability
- UV resistance: A
- Ozone resistance: A
- Resistance to acids and bases: strong acids and bases (e.g. 98% concentrated sulphuric acid), some corrosive organic solvents (e.g. chloroform)
- Pump tube service life: ≥500 hours
- Opaque black color helps protect light sensitive fluid
- Certification: FDA and ADCF compliant



Model No.	ID	OD	WT (mm)	Colour
MasterFlex Viton Tube				
9763228 (1.02*2.62)	1.02	2.62	0.8	Opaque black
9763238 (1.65*3.25)	1.65	3.25	0.8	Opaque black
9763242 (2.06*3.66)	2.06	3.66	0.8	Opaque black
9763246 (2.54*4.14)	2.54	4.14	0.8	Opaque black
96412-13(13#)	0.8	4.00	1.6	Opaque black
96412-14(14#)	1.6	4.80	1.6	Opaque black
96412-16(16#)	3.2	6.40	1.6	Opaque black
96412-25(25#)	4.8	8.00	1.6	Opaque black
96412-17(17#)	6.4	9.60	1.6	Opaque black
96412-18(18#)	7.9	11.10	1.6	Opaque black

## Silicone Tube

A translucent medical/food grade tubing which is odourless, non-toxic, Autoclavable, stretchable

- Continuous operating temperature -50°C to +200°C
- Hardness: 55 A
- Meets FDA standard, high sterility
- Anti-thermal oxidation, ozone Aging, light aging and weather aging
- Platinum cured for reduced residual levels of siloxanes and other volatiles
- Reduced spallation than rubber tube



## PEEK Capillary Tube

- Brand: RUNZE
- Colour: PEEK natural
- Operating temperature: maximum CUT 100°C
- Product hardness: 90 AS
- Applications: bearing, piston, syringe pump, switching valve, etc.
- Features:
  1. 1.6mm OD
  2. Biocompatible, inert and easy to cut
  3. Ideal for high pressure use
  4. PEEK does not react chemically with most solvents and can be used to replace stainless steel tubing in most liquid analysis systems.
  5. The very smooth inner surface of PEEK tubing generates less turbulence than metals of similar size, which helps to improve the resolution of sample bands with minimal permeability of PEEK.

Model No.	ID	OD	WT (mm)	Colour
Silicone Tube				
96421 (1.5*3)	1.50	3.00	0.75	Transparent
96405 (0.5*2.1)	0.50	2.10	0.8	Transparent
96406 (2.4*4)	2.40	4.00	0.8	Transparent
96410 (1*3)	1.00	3.00	1.0	Transparent
96411 (2*4)	2.00	4.00	1.0	Transparent
96413 (3*5)	3.00	5.00	1.0	Transparent
96402-13 (13#)	0.80	4.00	1.6	Transparent
96402-14 (14#)	1.60	4.80	1.6	Transparent
96402-19 (19#)	2.40	5.60	1.6	Transparent
96402-16 (16#)	3.20	6.40	1.6	Transparent
96402-25 (25#)	4.80	8.00	1.6	Transparent
96402-17 (17#)	6.40	9.60	1.6	Transparent
96402-18 (18#)	7.90	11.10	1.6	Transparent
96521 (1.6*6.4)	1.60	6.40	2.4	Transparent
96402-15 (15#)	4.80	9.80	2.5	Transparent
96402-24 (24#)	6.40	11.40	2.5	Transparent
96402-35 (35#)	7.90	12.90	2.5	Transparent
96402-36 (36#)	9.60	14.60	2.5	Transparent
16*22.4	16.00	22.40	3.2	Transparent
6.4*13	6.40	13.00	3.3	Transparent
96402-73 (73#)	9.60	16.60	3.5	Transparent
96402-82 (82#)	12.70	19.70	3.5	Transparent
BS-GJG-Φ10*Φ18	10.00	18.00	4.0	Transparent
12.7*22.3 (88#)	12.70	22.30	4.8	Transparent
25.4*35 (92#)	25.40	35.00	4.8	Transparent
9.5*22.1 (86#)	9.50	22.10	6.3	Transparent
19*31.6 (90#)	19.00	31.60	6.3	Transparent

Model No.	ID	OD	WT (mm)	Colour
PEEK Capillary Tube				
0.75*1.6	0.75	1.6	0.425	PEEK natural
0.5*1.6	0.50	1.6	0.55	PEEK natural
0.38*1.6	0.38	1.6	0.61	PEEK natural
0.25*1.6	0.25	1.6	0.675	PEEK natural
0.18*1.6	0.18	1.6	0.71	PEEK natural
0.13*1.6	0.13	1.6	0.735	PEEK natural
0.1*1.6	0.10	1.6	0.75	PEEK natural

## FEP tube

FEP tube - transparent

- Good optical clarity (96% UV transmission)
- Continuous operating temperature: FEP: -51~50°C / PTFE: -100~150°C  
*Note: The above data were measured at room temperature 20°C, at atmospheric pressure, and the test fluid was a neutral liquid.*
- Very smooth internal surfaces
- Reduced gas diffusion
- Excellent chemical resistance
- Ideal for thermoforming
- Tight dimensional tolerances
- Biocompatible
- FDA & USP Class VI compliant
- Gamma & ETO sterilizable
- ROHS Certified



SKU	Model No.	ID	OD	WT (mm)	Colour
<b>FEP Tube</b>					
1005040028	BS-TFLG-Φ1*Φ1.6	1.0	1.6	0.3	Transparent
1005040001	TFLG00001 (0.8*1.6)	0.8	1.6	0.4	Transparent
1005040002	TFLG00002 (1*2)	1.0	2.0	0.5	Transparent
1005040003	TFLG00003 (1.5*2.5)	1.5	2.5	0.5	Transparent
1005040004	TFLG00004 (2*3)	2.0	3.0	0.5	Transparent
1005040005	TFLG00005 (2.175*3.175)	2.175	3.175	0.5	Transparent
1005040024	TFLG-Φ3*Φ4	3.0	4.0	0.5	Transparent
1005040025	TFLG0025 (0.5*Φ1.6)	0.5	1.6	0.55	Transparent
1005040008	TFLG00008 (2.65*4)	2.65	4.0	0.675	Transparent
1005040006	TFLG00006 (1.6*3.175)	1.6	3.175	0.7875	Transparent
1005040007	TFLG00007 (1.6*3.2)	1.6	3.2	0.8	Transparent
1005040011	TFLG00009 (1.2*3)	1.2	3.0	0.9	Transparent
1005040014	BS-TFLG-Φ2*Φ4	2.0	4.0	1.0	Transparent
1066050002	TFLG-Φ4*Φ6	4.0	6.0	1.0	Transparent
1005040027	BS-TFLG-Φ4.35*Φ6.35	4.35	6.35	1.0	Transparent
1066050001	TFLG-Φ6*Φ8	6.0	8.0	1.0	Transparent

## PTFE tube

PTFE tube - milk white

- Good optical clarity (96% UV transmission)
- Continuous operating temperature: FEP: -51~50°C / PTFE: -100~150°C  
*Note: The above data were measured at room temperature 20°C, at atmospheric pressure, and the test fluid was a neutral liquid.*
- Very smooth internal surfaces
- Reduced gas diffusion
- Excellent chemical resistance
- Ideal for thermoforming
- Tight dimensional tolerances
- Biocompatible
- FDA & USP Class VI compliant
- Gamma & ETO sterilizable
- ROHS Certified



SKU	Model No.	ID	OD	WT (mm)	Colour
<b>PTFE Tube</b>					
1005040013	TFLG00001-E (0.8*1.6)	0.80	1.60	0.4	Milk white
1005040009	BS-TFLG-E-Φ1*Φ2	1.00	2.00	0.5	Milk white
1005040018	TFLG00003-E (1.5*2.5)	1.50	2.50	0.5	Milk white
1005040019	TFLG00004-E (2*3)	2.00	3.00	0.5	Milk white
1005040017	TFLG00005-E (2.175*3.175)	2.175	3.175	0.5	Milk white
1005040010	BS-TFLG-E-Φ3*Φ4	3.00	4.00	0.5	Milk white
1005040012	TFLG00007-E (1.6*3.2)	1.60	3.20	0.8	Milk white
1005040029	BS-TFLG-E-Φ2*Φ4	2.00	4.00	1.0	Milk white
1005040026	BS-TFLG-E-Φ4*Φ6	4.00	6.00	1.0	Milk white
1005040020	BS-TFLG-E-Φ4.35*Φ6.35	4.35	6.35	1.0	Milk white
1005040030	BS-TFLG-E-Φ5*Φ8	5.00	8.00	1.5	Milk white

## Chemical resistance of rubber tube

The evaluation values in the charts on this page have been provided by Saint-Gobain and reflect the relative resistance of various hose formulations to specific chemicals.

Note: The evaluation values in the table do not specifically reflect the extent to which extraction and changes in the physical properties or composition of the media may occur in contact with the hose. No representations or warranties are therefore made regarding the sensitivity of the media to contamination or changes in properties/composition due to possible extraction of the tube components by the transported media.

Prolonged exposure to certain corrosive substances which may have a damaging effect on the tube will still provide satisfactory results as they are rinsed with water after use. All evaluated values were measured at room temperature (23°C). Chemical resistance decreases with increasing temperature.

**E= excellent G= good F= normal X= not recommended**

Notes: 1. w= water solution; % concentration, if concentration is not indicated, it means 100% concentration or maximum percentage solubility in water.

2. The concentration of a fluid at room temperature is expressed as a percentage concentration by volume and the concentration of a solid as a percentage concentration by weight.

Pharmed BPT	Pharmed BPT	Pharmed BPT			
acetaldehyde	X	ASTM No. 3 oil	X	(o, m, p) methylphenol	X
acetamide67%w	G	barium carbonate, 1%w	E	tolyl acid	G
acetate solvent (general)	G	barium hydroxide, 5-10%	E	copper chloride, 40%w	E
acetic acid , 10%w	E	beer	E	copper nitrate, 70%w	E
acetic acid , 50-60%w	G	benzaldehyde	X	copper sulphate, 13%w	E
glacial acetic acid, 100%	G	benzene	X	cyclohexane	X
acetic anhydride	E	benzenesulfonic acid	X	cyclohexanol	X
acetone	X	benzoic acid	G	detergents	G
acetonitrile	G	benzyl alcohol	E	dibutyl phthalate	E
acetyl bromide	F	bleach, 22%w	E	diesel	X
acetyl chloride	F	borax, 6% w	E	diethylamine, 2, 5%w	E
acetylene gas	E	boric acid, 4%w	E	diethylene glycol	E
acrylonitrile	G	liquid bromine	X	dimethyl formamide (DMF)	G
adipic acid, 100%(alcohol solution)	G	butadiene	E	dimethyl sulfoxide	E
air	E	butane	E	dioctyl phthalate	E
common alcohols	E	butyl acetate	G	dioxane	X
aliphatic hydrocarbon	X	butanoll	X	ether	F
allyl alcohol	F	butyric acid	G	acetic acid ethyl ester	G
alum, 5%w	E	calcium carbonate, dilute acid25%	E	alcohol(ethanol)	F
aluminium chloride,, 53%w	E	calcium chloride, 30%w	E	ethyl benzoate	X
aluminium hydroxide, 2%w	E	calcium hydroxide, 10% glycerin solution	E	ethyl chloride	F
potassium aluminium sulphate , 50%w	E	calcium hypochlorite, 20%w	E	ether	F
aluminium salt	E	calcium nitrate, 55%w	E	ethylene bromide	X
amine	F	calcium salt	E	dichloroethanol	E
ammonia	E	calcium sulphate, 1%w	E	dichloroethane	F
liquid ammonia	E	carbon dioxide, dry/wet	E	glycol	E
ammonium acetate, 45%w	E	carbon disulfide	X	ethylene oxide	E
ammonium carbonate, 50%w	E	carbon monoxide	E	atty acids	F
ammonia water, 5-10%	E	tetrachlorocarbon	X	ferric chloride, 43%w	E
ammonia water, 30%w	E	carbonic acid	E	ferric nitrate, 60%w	E
ammonium persulphate, 30%w	E	castor oil	F	ferric sulfate, 5%w	E
ammonium salt	E	methylcellosolve	F	ferrous chloride, 40%w	E
ammonium sulphate, 30%w	E	acetic acid fibrinolytic agent	F	ferrous sulfate, 5%w	E
amyl acetate	G	chlorine, dry	F	fluoroboric acid, 48%w	X
amyl alcohols	X	chlorine, wet	X	fluorine gas	X
amyl chloride	F	chloroacetic acid, 20%w	G	fluorosilicic acid25%w	F
aniline	F	trichlorobenzene, Mono Di	X	formaldehyde, 37%w	X
aniline hydrochloride	F	chloroform	F	formic acid, 25%w	E
antimony salt	E	chlorosulfonic acid	X	formic acid, 40-50%w	G
aqua regia	X	chromic acid, 10-20%w	E	formic acid, 98%w	G
aromatic hydrocarbon	X	chromic acid50%w	F	freon 11	E
arsenic acid, 20%w	F	citric acid , 20%w	E	freon 12	E
arsenite	E	coconut oil	F	freon 22	E
ASTM No. 1 oil	F	corn syrup	E	fruit juices	E
ASTM No. 2 oil	X	cottonseed oil	F	fuel	X

Pharmed BPT	Pharmed BPT	Pharmed BPT			
furfuro	X	methyl bromide	F	pyridine	F
gallic acid 17% (acetone solution)	G	methyl chloride	F	salicylic acid, 1%w	E
motor gasoline	X	methyl ethyl ketone (MEK)	X	silicone oil	F
gelatins	E	milk	E	silver nitrate55%w	E
glucose 50% w	E	mineral oil	X	special hydraulic oil, 500A	X
glycerol(glycerine)	E	solvent oil	X	soapy liquid	G
glycolic acid , 70%w	G	molasses	E	sodium acetate, 55%w	E
heptane	X	Monoethanolamine	F	sodium benzoate, 22%w	E
n-hexane	X	engine oil	X	sodium bicarbonate, 7%w	E
hydrazines	F	naphtha	X	sodium carbonate, 7%w	E
hydrobromic acid, 20%-50%w	X	naphthalene	X	sodium chlorate, 45%w	E
hydrobromic acid, 100%w	X	natural gas	E	sodium chloride, 20%w	E
hydrochloric acid, 10%w	E	nickel chloride, 40%w	E	sodium cyanide, 30%w	E
hydrochloric acid, 37%w	G	nickel nitrate, 75%w	E	sodium fluorate, 3%w	E
hydrocyanic acid	E	nickel salt	E	sodium hydroxide, 10-15%w	E
hydrofluoric acid , 10%w	X	nickel sulfate, 25%w	E	sodium hydroxide, 30-40%w	E
hydrofluoric acid , 25%w	X	nitric acid, 10%w	E	sodium hypochlorite, 5, 5%w	E
hydrofluoric acid , 40-48%w	X	nitric acid, 35%w	E	sodium hypochlorite, 12, 2%w	E
hydrogen	E	acid, 68-71%w	X	sodium nitrate, 3,5% w	E
hydrogen peroxide, 3%w	E	nitrobenzene	X	sodium salt	E
hydrogen peroxide, 10%w	E	nitromethane	X	sodium sulfate, 5% w	E
hydrogen peroxide, 30%w	E	nitrite, 10%w	E	sodium sulfide, 45% w	E
hydrogen peroxide, 90%w	G	nitrous oxide	E	sodium sulfite, 10% w	E
hydrogen sulphide	E	animal oil	F	tin tetrachloride, 50% w	E
hydroquinone , 7%w	G	oil, basic	X	tin dichloride, 45% w	E
potassium hypochlorite, 25%w	E	hydraulic oil (phosphate ester)	X	stearic acid, 5% (alcohol solution)	F
iodine, 50ppm w	E	hydrocarbon oil	X	styrene monomer	X
isobutanol	F	vegetable oil	F	sulfur chloride	X
isocatan	X	oleic acid	F	sulfur dioxide, dry gas	E
isopropyl acetate	G	oleum, 25%w	E	sulfur dioxide, moisture	E
isopropanol	F	o-dichlorobenzene	X	sulfur trioxide, wet	G
Isopropyl ether	F	oxalate, 12%w	E	sulphuric acid, 10%w	E
Jet engine fuel, JP8	X	oxygen	E	sulphuric acid, 30%w	E
kerosene	X	ozone, 300pphm	X	sulphuric acid, 95-98%w	X
ketone	X	palmitic acid, 100% ether	F	sulfite	E
Paint solvent	G	paraffin wax	X	tannic acid, 75%w	G
lactic acid, 3-10%w	E	perchloric acid, 67%w	E	tartaric acid, 56%w	E
lactic acid, 85%w	G	perchloroethylene	F	tetrahydrofuran	E
lard, animal fat	F	phenol, 5-10%	E	thionyl chloride	X
lead acetate, 35%w	E	phenol, 91%w	E	stannic salt	E
lead salt	E	phosphoric acid<10%w	E	titanium salt	E
lemon oil	X	phosphoric acid, 25% w	E	toluene	X
D-lemon essence	X	phosphoric acid, 85%w	E	trichloroacetic acid, 90%w	G
linoleic acid	F	phosphoric acid trichloride	G	trichloroethane	F
linseed oil	F	developer	G	triethanolamine	F
lubricating oil, petroleum	X	phthalate, 9% (alcohol solution)	E	trichloroethylene	X
magnesium carbonate, 1%w	E	phthalate anhydride, 9% (alcohol solution)	E	trichloropropane	F
magnesium chloride, 35%w	E	picric acid, 1% w	X	trimethylbenzene phosphat	E
magnesium hydroxide, (dilute acid solution) 10%	E	electroplating solution	E	trisodium phosphat	E
magnesium nitrate, 50%w	E	potassium carbonate, 55% w	E	turpentine	X
magnesium sulphate, 25%w	E	potassium fluoride, 33% w	E	urea, 20% w	E
maleic acid, 30%w	F	health theory suit 70w	E	uric acid	E
malic acid, 36%w	E	potassium hydroxide, <10%w	E	vinegar	E
manganese salt	E	potassium iodide, 56%w	E	vinyl acetate	G
mercuric chloride, 6%w	E	potassium permanganate, 6%w	E	deionized water	E
mercuric cyanide, 8%w	E	potassium salt	E	distilled water	E
mercury	E	propane	E	xylene	X
mercuric salt	E	propanol	E	zinc chloride, 80% w	E
methane gas	E	propylene glycol	E	zinc salt	E

## Chemical resistance of viton tube

The evaluated values in the charts on this page are provided by MasterFlex, all values were measured at room temperature (20°C) and are for reference only.

**1=excellent 2=good 3=normal X=not recommended**

	Viton	Viton	Viton
accumulator acid (sulphuric acid 30%)	1	amyl borate	1
acetaldehyde	2	amyl chloride	2
acetamide	1 to 2	aniline (aminobenzene)	1 to 2
acetic acid 10%	2	aniline dyes	1
acetic acid 100% (conc.)	x	aniline hydrochloride	x
acetic acid 25%	2	animal fats (oils and greases, adipose)	1
acetic acid 3%	2	anol (cyclohexanol)	1
acetic acid 50%	2	anone (cyclohexanone)	x
acetic acid anhydride 50%	x	anthraquinone sulfonic acid,	1
acetic acid ethyl ester (ethyl acetate)	x	antichlorine (sodium thiosulphate)	1
acetone	x	antimony chloride 50%	1
acetyl salicylic acid (aspirin)	1	antimony chloride, anhydrous	1 to 2
acetylacetone	x	apple acid, (apple juice)	1
acetylene gas	1	aqua fortis (nitric acid 50%)	1 to 2
acids see spec. designation, applicable in general	1-2	aqua regia (nitrohydrochloric acid)	2
acrylic acid ethyl ester (ethyl acrylate)	x	argon gas	1
acrylonitrile	2	aromatics see benzene, toluene, xylene	1-2
adipic acid (hexane diacid)	1	homologues, applicable in general	1
adipic acid diethyl ester	x	arsenic acid	1
adipose (animal grease)	1	ascorbic acid (vitamin C)	1
air, atmospheric, oil-free, to +°C	200	asphalt (pitch)	1
air, oil-saturated, to +°C	200	ASTM fuel A (isooctane, free of aromatics)	1
alcohols see specific designations, applicable in general	1-2	ASTM fuel B	1
aliphatics see gasoline low aromatic, applicable in general	1	ASTM fuel C	1
aldehyde see specific designations, applicable in general	2-x	ATS-brake fluid	1
allyl alcohol (propenol)	3	avgas, aviation gasoline (kerosene)	1
allyl chloride (3-chloropropene)	x	bacon fat	1
alum (potassium aluminium sulphate)	1	baking soda (sodium bicarbonate, )	1
aluminium acetate, (basic aluminium acetate)	x	barium chloride,	1
aluminium chloride,	1	barium hydroxide	1
aluminium fluoride	1	barium sulphate (barite)	1
aluminium hydroxide	1	barium sulphide	1
aluminium nitrate,	1	barm (yeast),	1
aluminium phosphate,	1	bases (lyes) see exact designation, applicable in general	2
aluminium sulphate,	1	beer	1
amines see specific designations, applicable in general	2-3	benzaldehyde (oil of bitter almonds, benzoic aldehyde)	2 to 3
amino acetic acid (glycine)	1	benzene see also gasoline	2-3
ammonia nitrate,	3	benzoic acid,	1
ammonia, 25% (ammonia water)	1	benzyl alcohol	1
ammonia, gaseous 20°C	1	benzyl benzoate	1
ammonia, liquid 100%	x	benzyl chloride	1
ammonium acetate,	x	bicarb, bicarbonate of soda (sodium bicarbonate)	1
ammonium carbonate,	1	bio-gas clean	1
ammonium chloride, 3%	1	biphenyl (diphenyl)	1
ammonium diphosphate,	1	biphenyls, polychlorinated (pyranols, transformer oils)	1
ammonium fluoride,	1 to 2	bis (2-hydroxyethyl) ether	1
ammonium hydroxide, (ammonia, )	1	bismuth carbonate	1
ammonium metaphosphate	1	bisulphite lye containing SO2	1
ammonium nitrate	1	bitter-salt (magnesium sulphate)	1
ammonium persulphate,	1	bitumen 20°C (see also hot bitumen)	1
ammonium phosphate,	1	black lye (cellulose extraction)	1
ammonium sulphate	1	blanc-fixe (barium sulphate)	1
ammonium thiocyanate	1	bleaching lye (javelle-lye, potassium hypochlorite)	1
amyl acetate (acetic acid pentyl ester, banana oil)	x	bone oil	1
amyl alcohols (pentanols)	2	borax (sodium borate)	1
		boric acid,	1
		brake fluid, ATS	1
		brandy, all kinds	1
		brine (table or common salt solution)*1	1
		bromine	1
		bromine water	1
		bromobenzene	1
		butadiene	2
		butan diols (butylene glycols)	2
		butane diacid	1
		butane gas	1
		butane, liquid	1
		butanol (butyl alcohol)	2 to 3
		butanone (methyl ethyl ketone MEK)	x
		butyne diol	3
		butter milk	1
		butter	1
		butyl acetate (acetic acid butyl ester)	x
		butyl benzoate	1
		butyl carbitol	1
		butyl ether	x
		butyl glycol	1
		butyl oleate	1
		butyl phenols	3
		butyl stearate	1
		butylamine	x
		butylene, liquid (butene)	1
		butyraldehyde	x
		butyric acid,	2
		calcium acetate	x
		calcium bisulphate,	1
		calcium bisulphite,	1
		calcium carbonate	1
		calcium chloride,	1
		calcium hydroxide, (slaked lime)	1
		calcium hypochlorite,	1
		calcium nitrate	1
		calcium oxide = calcinated lime	1
		calcium sulphate (gypsum),	1
		calcium sulphide	1
		camphor (camphor oil)	3-x
		cane sugar (sugar),	1
		carbamide, urea,	1
		carbitol (diethylene glycol monoethyl ether)	2
		carbolic acid (phenol)	1
		carbolineum,	1
		carbon bisulphide	1
		carbon dioxide, gaseous, wet and dry	1
		carbon monoxide	1
		carbon tetrachloride (tetrachloromethane)	1
		castor oil, ricinus oil	1
		caustic lime (calcium oxide)	1
		cellulube (hydraulic oil, phosphate ester based)	1
		ceolithe	1
		chile salpêtre (sodium nitrate)	1

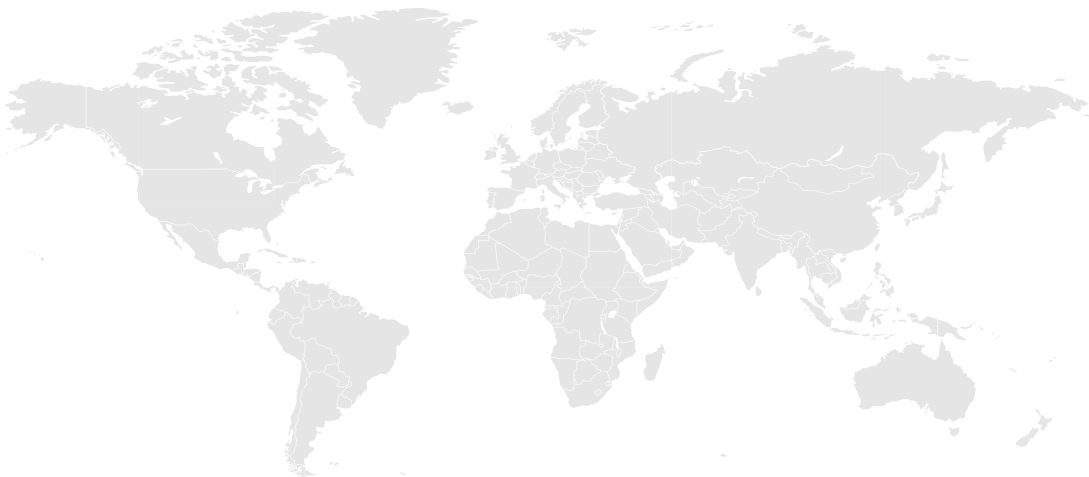
	Viton	Viton	Viton
china wood oil (wood oil)	1	dichloroethylene (dichloroethene)	2
chloral hydrate (trichloroacetaldehyde)	3	dichloro-isopropyl ether	3
chloramine	1	dichloromethane (methylene chloride)	2
chloric acid,	x	diesel oil	1
chlorinated hydrocarbons see specific design, applicable in general	2	diethyl ether (ether)	3-x
chlorinated lime (calcium hypochlorite)	1	diethyl sebacate	2
chlorinated water 3%	1	diethylamine	2
chlorine dioxide	1	diethylbenzene	1
chlorine, dry	1	diethylene glycol monoethyl ether (carbitol)	2
chlorine, wet	1	diethylene glycol (diglycol)	1
chloroacetic acid (monochloroacetic acid)	x	diglycolic acid,	1
chlorobenzene (monochlorobenzene)	1	dilutions for paints and lacquers determine composition	
chlorobiphenyl (clophen)	1	dimethyl ether (methyl ether)	3
chlorobromomethan	1	dimethyl formamide (DMF)	3
chlorocalcium (calcium chloride)	1	dimethyl heptanone (diisobutyl keton)	x
chloroethanol (ethylene chlorhydrine)	x	dimethyl phthalate	2
chloroethyl (ethyl chloride)	1-2	dimethyl sulphoxide (DMSO)	x
chloroform (trichloromethane)	1	dimethylamine	x
chloromethane (methyl chloride)	2	dimethylaniline (xylylidine)	1
chloroprene (chlorinated butadiene)	1	dioctyl phthalate (DOP)	1 to 2
chlorosulfonic acid	x	diocetyl sebacate	2
chlorothene (trichloroethane)	1	dioxane (diethylene dioxide)	x
chromic acid 10%	2	dipentene (limonene)	1
chromic acid 25%	1	diphenyl	1
chromic acid 50%	1	diphenyl oxid (diphenyl ether)	2 to 3
citric acid	1	dipropylene glycol	1
clophen (chlorobiphenyl)	1	dodecyl alcohol (lauryl alcohol)	1
coal tar (see also hot tar, creosote)	1	Eau de Javelle (potassium hypochlorite)	1
coconut grease and oil	1	epichlorohydrin, liquid	x
cod-liver oil	1	epsom salt (magnesium sulphate)	1
common salt (sodium chloride)	1	esters see specific designations, applicable in general	3-x
compressed air, oil-saturated, to +°C	200	ethane (gas)	1
copper acetate	x	ethanol (ethyl alcohol)	1
copper chloride,	1	ethanolamine (2-aminoethanol)	3
copper cyanide	1	ethene (ethylene)	1
copper fluoride	1	ethers see specific designations, applicable in general	3-x
copper nitrate,	1	ether (ethyl ether, diethyl ether)	3-x
copper sulphate, (blue vitriol)	1	etheric oils *1	1
corn oil	2	ethyl acetate	x
corn sugar (glucose, dextrose, grape sugar)	1	ethyl acrylate (acryl acid ethyl ester)	x
creosoteed oil	1	ethyl alcohol (denatured = spirits)*1	2 to 3
cow suet	1	ethyl benzene	2
creosote	1	ethyl bromide (bromomethane)	1
creosols, cresylic acids	1	ethyl chloride (chloroethane)	1 to 2
crotonaldehyde (2-butenal)	1	ethyl dichloride (dichloroethylene)	2
crude oil, high aromatic	1	ethyl ether (ether)	3-x
cumene (isopropylbenzene)	1	ethyl glycol acetate	1
cyankali (potassium cyanide)	2	ethylene chloride (dichloroethylene)	2
cyclohexane (hexahydrobenzene)	1	ethylene chlorhydrine (chloroethanol)	x
cyclohexanol (hexaline)	1	ethylene diamine	1
cyclohexanone	x	ethylene (gas) (ethene)	1
cyclohexylamine	x	ethylene glycol (glycol, ethane-1,2-diol)	x
decalin (decahydronaphthalene)	1	ethylene oxid (1,2-epoxy methane), liquid	x
detergents, synth. 20°C	1	fats in general see oils and greases	1
diacetone alcohol	x	fatty acids, with >7 C-atoms, in general	1
diethyl ether	1	fatty acids, with 1-7 C-atoms, in general	2
dibutyl amine	x	fatty alcohols (longchain, aliphatic alcohols)	1
dibutyl phthalate	2	fermented fruit juice* 1	1
dibutyl sebacate	2	ferric chloride (ferri),	1
dichlorobenzene	2 to 3	ferric sulphate, ferric vitriol	1
dichloroethane	2-3	fertilizing salt	1
		fluorhydric acid see hydrofluoric acid	2
		fluorine, liquid	1
		fluorobenzene	2
		fluoroboric acid 65%	1
		fluorosilicic acid,	2 to 3
		with 8 -12 % methyl alcohol additive)	1
		formamide	2 to 3
		formic acid:	
		0,03	2
		0,1	3
		1	x
		fruit juices* 1	1
		fruit pulp* 1	1
		fuming sulphuric acid: (oleum)	1
		fungi (microbes)	1
		furane	x
		furfural alcohol (furfuro)	3
		gallic acid	1
		gasoline in general (see specific designations)	1
		gasoline, lead-free	1
		gasoline, super	1
		gasoline, ASTM fuel A (isooctane, free of aromatics)	1
		gasoline, ASTM fuel B	1
		gasoline, ASTM fuel C	1
		gasoline, diesel, heating oil	1
		gasoline, aviation (kerosene)	1
		gasoline, high aromatic	1
		gasoline, low aromatic	1
		gasoline, test- (heavy g., white spirit, mineral turpentine)	1
		gasoline/benzene (50/50)	1
		gasoline/benzene (60/40)	2
		gasoline/benzene (70/30)	1
		gasoline/benzene (80/20)	1
		gasoline/benzene/ethanol (50/30/20)	x
		gelatins, *1	1
		glacial acetic acid (acetic acid pure)	x
		Glauber's salt (sodium sulphate)	1
		glue, animal	1
		glycerine (glycerine, propane-1,2,3-triol)	1
		glycine (amino acetic acid), 10%	1
		glycolic acid (hydroxy acetic acid), 30%	1
		grape juice unfermented*1	1
		greases in general, see oils and greases	1
		gypsum (calcium sulphate)	x
		halogenes (look at: fluorine, chlorine, bromine, iodine)	1
		halogenated hydrocarbons see spec. design, applicable in general	1-2
		heavy gasoline (white spirit or mineral turpentine)	1
		helium	1
		heptane	1
		hexahydrobenzene (cyclohexane)	1
		hexaldehyde	x
		hexaline (cyclohexanol)	1
		hexane (n-hexane)	1
		hexanol (hexyl alcohol)	2
		hexane-triol	1
		hexene	1
		hot bitumen to °C	180
		hydraulic oils and -liquids:	
		-mineral oil based	1
		-phosphate ester based (pydraul)	1
		hydrazines (diamides)	2 to 3

Viton	Viton	Viton			
hydrazine hydratee,	1	melamine	1	N-methylpyrrolidone (NMP)	3
hydrobromic acid	1	menthol	1	nonyl alcohol (nonanol)	1
hydrocarbons aliphatic general(see spec. designation)	1	mercury	1	octane	1
hydrocarbons aromatic general(see spec. designation)	1-2	mercuric chloride (sublimite)	1	octanol = octyl alcohol	1
hydrocarbons halogenated general (see spec.designation)	1-2	mercurous nitrate	1	oils and greases:	
hydrochloric acid 15%	1	mesityl oxide	x	-animal*1	1
hydrochloric acid 38% (conc.)	1	methane (gas)	1	-ASTM-oil Nr. 1 20°C	1
hydrochloric acid, (hydrochlorous) gaseous	1	methanol (methyl alcohol)	2	-ASTM-oil Nr. 2 20°C	2
hydrofluoric acid 10%	1 to 2	methyl acetate (acetic acid methyl ester)	x	-ASTM-oil Nr. 3 20°C	2
hydrofluoric acid 30%	1 to 2	methyl acrylate	x	-crude oil, high aromatic	1
hydrofluoric acid 75%	2	methyl alcohol	2	-diesel oil	1
hydrofluoriciisilic acid,	2 to 3	methyl bromid (bromomethane)	2	-heating oil	1
hydrogen (gaseous)	1	methyl chloride (chloromethane)	2	-hydraulic oils and -liquids:	
hydrogen peroxide 10%	1 to 2	methyl chloroform (trichloroethane)	1	-mineral oil based	1
hydrogen peroxide 30%	1	methyl ethyl ketone (MEK)	x	-phosphate ester based (pydraul)	1
hydrogen sulphide, dry	1	methyl glycol (methylcellosolve)	x	-mineral, without additives, at 20°C	1
hydrogen sulphide, wet	1	methyl glycol acetate	x	-mineral, without additives, to °C	200
hydroquinone,	2	methyl isobutyl keton	x	-silicon based	1
hydroxylamine sulphate,	1	methyl oxiran (propylene oxide)	x	-transformer oils (pyranols)	1
ink	1	methyl phthalate (dimethyl phthalate)	2	-vegetable oils	1
iodine tincture (5-10% alcohol iodine solution)	1	methylamine,	2 to 3	oil of bitter almonds (benzaldehyde)	2 to 3
isobutanol (isobutyl alcohol)	1	methylated spirits (ethanol denaturated)	1	oleic acid, olein	2
isooctane	1	methylene chloride (dichloromethane)	2	oleum (fuming sulphuric acid)	1
isooctanol (isooctyl alcohol)	1	microbes	1	oleum vapours	3
isophoron	x	milk*1	1	olive oil*1	1
isopropanol (isopropyl alcohol)	1	mixed acid II (sulphuric acid/phosphoric acid)	1	oxalic acid,	1
isopropyl acetate	x	mixed acid I (sulphuric acid/nitric acid/water)	x	oxidant see specific designations, applicable in general	1
isopropyl benzene (cumen)	1	molasses*1	1	oxirane (ethylene oxide)	x
isopropyl chloride	1	monochloroacetic acid	x	oxygen pure to +°C	200
isopropyl ether	3	monochlorobenzene	1	ozone (atmospherial concentrations)	1
Javelle lye (potassium hypochlorite)	1	monochloromethane (methyl chloride)	2	ozone 100%	1
jet fuel DP1-IPS	1	monostyrol (styrol, styrene, monomeric)	2	palm oil, palm pip oil*1	1
kerosene	1	morpholine	2	palmitic acid	2
ketones see specific designations, applicable in general	x	must fermented (fermented fruit juice)	1	paraffin, paraffin oils	1 to 2
lactic acid*1	1	must, unfermented*1	1	paraformaldehyde	2
lanolin (wool grease)	1	mustard	x	pec+K228+J4-J8L54	1
laughing-gas (nitrous oxide)	1	myristyl alcohol, myristic alcohol (tetradecanol)	1	pentane	1
lauryl alcohol (dodecyl alcohol)	1	naphtha	1	pentanols (amyl alcohols)	2
lavender oil*1	1	naphthalene (stone oil)	1	perborate (sodium borate)	1
lead acetate,	1	natron (sodium bicarbonate)	1	perchloric acid,	1
lead nitrate	1	natural gas, wet	1	perchloroethylene (tetrachloroethylene)	1
lead sulphate	1	natural gas, dry	1	permanganate (potassium permanganate) 10 %	1
lignite tar oil (see coal tar)	1	n-hexane	1	petroleum, without additives, at 20°C	1
lime, slaked (calcium hydroxide)	1	nickel acetate	x	petroleum, without additives, to °C	200
limestone (calcium carbonate)	1	nickel chloride,	1	petroleum spirit (white spirit, solvent naphta)	1
linseed oil*1	1	nickel sulphate,	1	phenol (carbolic acid),	1
lithium chloride,	1	nitrate (nitrate of sodium)	1	phenyl ether (diphenyl oxide)	2 to 3
lyes see exact designation, applicable in general	2	nitrating acid (mixed acid I)	x	phenylbenzene (biphenyl)	1
magnesium chloride,	1	nitric acid 10%	1	phorone (diisopropylidene acetone)	x
magnesium hydroxide	1	nitric acid 25%	1 to 2	phosphoric acid 3%	1
magnesium silicate (talc)	1	nitric acid 50% (aqua fortis)	1 to 2	phosphoric acid 50%	1
magnesium sulphates	1	nitric acid 60%	2	phosphoric acid 85%	1
magnesium sulphite,	1	nitro-benzene	2	phosphoric alumina (aluminium phosphates, )	1
maize oil*1	1	nitrogen	1	phosphorus oxychloride	1
maleic acid,	1	nitrogen oxides (nitrous gases)	3	photo-emulsions, in general (see exact chem. esignation)	2
maleic anhydride	3	nitro-glycerin	1	phthalic acid	x
manure	1	nitro-methane	x	phthalic acid anhydride,	x
margarine-greases and oils*1	1	nitro-propane	x	phthalic acid ester (phthalates)	1
marsh gas (mine damp, methane)	1	nitro-toluole	3	picric acid	1 to 2
mash*1	1	nitrous fumes (nitrogen oxides)	3	pine oil*1	1
MEK (methyl ethyl ketone)	x	nitrous oxide (laughing gas)	1	potash (potassium carbonate)	1

Viton	Viton	Viton			
potassium acetate,	2 to 3	silicon oils and -greases	1	sulphuric acid 10%, moist	2
potassium aluminium sulphate (alum)	1	silver nitrate,	1	sulphuric acid 75%, moist	2
potassium bicarbonate (potassium dicarbonate)	1	sklydrol (hydraulic liquids, phosphate ester based)	1	talc (magnesium silicate)	1
potassium bichromate (potassium dichromate)	1	slaked lime (calcium hydroxide )	1	tannic acid (tannin)	1 to 2
potassium bisulphate,	1	soapsuds, -solution, detergents)	1	tar (see also hot tar)	1
potassium borate,	1	(sodium carbonate anhydrous)	1	tartaric acid, *1	1
potassium bromate, , 10%	1	soda salpetre (sodium nitrate)	1	tensides (washing or cleaning agents, synth.)	1
potassium bromide,	1	soda, calcinated (sodium carbonate anhydrous)	1	test gasoline = white spirit	1
potassium carbonate (potash)	1	soda, crystallised (sodium carbonate )	1	tetrachlorocarbon (tetrachloromethane,tetra, carbon tetra chloride)	1
potassium chlorate,	1	sodium bicarbonate (sodium-hydrogencarbonate),	1	tetrachloroethans	2
potassium chloride,	1	sodium bisulphate (sodium-hydrogensulphate)	1	tetrachloroethylene (perchloroethylene)	1
potassium chromate, , 40%	1	sodium bisulphite (sodium-hydrogensulphite),	1	tetrahydrofurane (THF)	x
potassium cyanide (cyanikal),	2	sodium borate (borax)	1	tetraline = tetrahydronaphthalene	1
potassium dichromate,	1	sodium bromide	1	thionyl chloride	3
potassium hydroxide (caustic potash,-lye) 10%	1	sodium carbonate (soda)	1	thiophene	x
potassium hydroxide (caustic potash, lye) 50%	2 to 3	sodium chlorate,	1	tin-ll-chloride,	1
potassium hypochlorite (Javelle)	1	sodium chloride (muriate of soda, common or table salt)*1	1	toluol	1
potassium iodide,	1	sodium chlorite	1	town gas, coal gas, illuminated gas (natural gas see later)	1
potassium nitrate,	1	sodium cyanide	1	train-oil	1
potassium perchlorate,	1	sodium dichromate	1	tributyl phosphate (TBP)	x
potassium permanganate 10%,	1	sodium fluoride	1	trichloro acetic acid (TCA)	3
potassium peroxy disulphate (potassium persulphate)	1	sodium fluoroaluminat 10%	1	trichloroethane (methylchloroform)	1
potassium phosphate (mono and dibasic)	1	sodium hydroxide (sod lye) 25%, 100°C	x	trichloroethylene (ethylene trichloride)	1 to 2
potassium sulphate	1	sodium hydroxide (sod lye) 25%, 20°C	3	trichloromethane (chloroform)	1
potassium sulphite	1	sodium hypochlorite 10%	1	tricesyl phosphate	1 to 2
propane gas	1	sodium hypochlorite 30%	2 to 3	triethanolamine	1
propane, liquid	1	sodium metaphosphate	1	triethylamine	x
propanol (propyl alcohol)	1	sodium nitrate,	1	triethylene glycol (triglycol)	1
propargyl alcohol, 7%	1	sodium nitrite	1	triethyl phosphate	x
propionic acid (propane acid)	1	sodium perborate	1	trisodium phosphate	1
propyl acetates (acetic acid propyl esters)	x	sodium percarbonate (bleaching agent)	1	tung oil	1
propyl alcohol (propanol)	1	sodium peroxide	1 to 2	turpentine (-oil)	1
propylamine	x	sodium phosphate (see also trisodium phosphate)	1	turpentine, surrogate, mineral	1
propylene (propene)	1	sodium silicate,	1	urine	1
propylene glycols (propandiols)	1	sodium sulphide,	x	varnish	1
propylene oxide (methylloxiran)	x	sodium sulphate (Glauber' s salt),	1	vinegar*1	1
prussic acid 20%	1 to 2	sodium sulphite,	1	vinyl acetate (acetic acid vinyl ester)	2
prussic acid 98% (conc.)	1 to 2	sodium thiosulphate (antichlorine)	1	vinyl chloride (chloroethene), monomer	1
pydraul (hydraulic liquids phosphate ester based)	1	solvent naphta (petroleum spirit, white spirit)	1	vitamin C	1
pyranton (diacetone alcohol)	x	solvents see specific designations		vitriol oil (oleum)	1
pyridine	3	soyabeen oil*1	1	vitriol blue (copper sulphate)	1
pyrrol	3	spirits (ethanol, denaturated)	1	washing agent synth. (detergent) 20°C	1
quick lime (calcium oxide)	1	spirits of ammonia (ammonia 25% in water)	1	water:	1
radiation, UV	1	spruce needle oil	1 to 2	-condensed, distilled, desalinated or demineralised	
radioactive radiation: applicable in general	x	starch syrup*1	1	does not effect polymers but polymers effect water	
rapeseed oil*1	1	starch, *1	1	-drinking- or mineral water, without additives*1	150
raw sugar sap	1	steam of water to°C	150	-mineral water CO2 saturated*1	1
redol (aniline)	1 to 2	stearin (stearic acid)	2	-seawater	1
ricinus oil, castor oil*1	1	stone oil (naphthalene, liquid paraffine)	1	weathering	1
rock salt	1	styrene, monomer	2	white spirit (petroleum spirit, solvent naphta)	1
sal ammoniac (ammonium chloride) 3%	1	sublimate (mercury chloride)	1	wines red and white*1	1
salicylic acid (spiric acid),	1	sugar *1 (see also raw sugar juice)	1	wood oil	1
salmiac (ammonium chloride)	1	sulfonic acids, in general	2	wool grease (lanoline)	1
salpetre (potassium nitrate)	1	sulfur trioxide (sulphuric acid anhydride)	1	xylamon (wood protection)	2
salt (table or common salt, sodium chloride)	1	sulfur, molten, 90°C	1	xylene	1 to 2
salted water (brine, sea water)	1	sulphuric acid 10%	1	xylidine (dimethyl aniline)	1
sangajol = turpentine oil substitute, mineral	1	sulphuric acid 30%	1	zinc acetate,	x
seawater	1	sulphuric acid 50%	1	zinc chloride,	1 to 2
sebacic acid ester	3-x	sulphuric acid 75%	1	zinc sulphate,	1
sewage	1	sulphuric acid 90%	1		
silicon dioxideee (silicic acid, chert, silica)	1	sulphuric acid conc. (oleum, fuming sulphuric acid)	1		







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