



## Pre-torque Flangeless Fittings

### 硬管接头

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.

- The only multiuse fingertight fittings that cannot be over-tightened or under-tightened
- PP or PTFE pre-torque flangeless nut come with PP or PFA ferrule
- Compatible with flat bottom receiving port
- Offer three torque ranges from 0.11 to 0.25N/m in wide application possibilities
- Offer three types of caps (Knurled, Double-Winged, Waved) to cover more possible application requirements
- Used for standard rigid tubing OD1/16" (1.6mm), 1/8" (3.175mm), 2.0/2.5/3.0/3.2mm

#### 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 or wrench tighten the fittings until the cap comes out "click" which means properly tightened
- Step 4. After disassembling, the ferrules should be replaced in next assembly and connection

### Model No.

## YJLDZ - YX - 28 P - S (011/015)

<b>Nut Model</b>	<b>Nut Shape</b>	<b>Thread</b>	<b>Material</b>	<b>End Port</b>	<b>Torque Range (N/m)</b>
YJLDZ-YX-28P-E-S(011-015)	YX - Knurled BX - Double-Winged HX - Waved	28 - 1/4-28UNF 06 - M6	P - PP E - PTFE	S $\phi$ 2.49mm - $\phi$ 3.87mm	(011/015) - 0.11-0.15 (015/020) - 0.15-0.20 (020/025) - 0.20-0.25

<b>Ferrule Model</b>	<b>Ferrule ID (Tube OD)</b>	<b>Material</b>
YE YC	016 - 1.6mm 020 - 2.0mm 025 - 2.5mm 030 - 3.0mm 032 - 3.2mm	A - PFA

YJLDZ-HX-06E-(015/020)  
Pre-torque flangeless nut made of waved nut shape, M6 male thread, PTFE material, 3.87mm big port, 0.15-0.20N/m torque range  
YC-030-P  
Flangeless ferrule made of PP material, suit for tubing OD3.0mm

### Connection



## Flangeless Fittings

### 硬管接头

Flangeless fittings benefit a lot for low pressure (up to 0.8Mpa) removable and reusable systems. RUNZE offer a variety of nut designs for wide application requirements both on mounting and functioning.

- PP or PTFE flangeless nut come with PP or PFA ferrule
- Compatible with flat bottom receiving port
- Finger-tight convenience, no wrenches required
- Flangeless ferrules provide a leak-proof seal, users no need to spend time flanging tubing
- Used for standard rigid tubing OD1/16" (1.6mm), 2.0mm, 2.5mm, 3.0mm, 1/8" (3.175mm), 3.2mm

#### 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

### Model No.

## WF10A - 1/4-28 - P YE - 020 - P

<b>Nut Model</b>	<b>Thread</b>	<b>Material</b>	<b>Ferrule</b>	<b>Ferrule ID (Tube OD)</b>	<b>Material</b>
WF10A WF03G WF08BL WF08B WF05EL WF05E WF06CL WF06C	1/4-28 - 1/4-28UNF 06 - M6	P - PP E - PTFE S - PPS (OEM) M - POM (OEM)	YE YC	016 - 1.6mm 020 - 2.0mm 025 - 2.5mm 030 - 3.0mm 032 - 3.2mm	A - PFA

WF05EL-06-S  
WF05EL flangeless nut made of M6 male thread, PPS material  
YE-020-A  
Flangeless ferrule made of PFA material, suit for tubing OD2.0mm

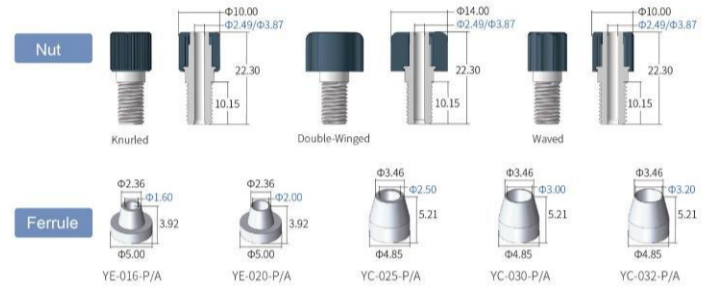
### Connection



### Specification

Nut Model	Thread	Material	Torque Range	Operating Environment	Ferrule Model	Tube OD
YJLDZ-YX-28P-E-S(011-015)	1/4-28UNF	PP/PTFE	0.11-0.15 N/m	Room Temperature Normal Pressure Wall thickness<0.5mm	YE-016 YE-020	1.6mm 2.0mm
YJLDZ-YX-06P-E-S(011-015)	M6	PP/PTFE				
YJLDZ-BX-28P-E-S(011-015)	1/4-28UNF	PP/PTFE				
YJLDZ-HX-28P-E-S(011-015)	1/4-28UNF	PP/PTFE	0.15-0.20 N/m	Room Temperature Normal Pressure Wall thickness>0.5mm		
YJLDZ-BX-06P-E-S(015-020)	M6	PP/PTFE				
YJLDZ-HX-06P-E-S(015-020)	1/4-28UNF	PP/PTFE				
YJLDZ-HX-28P-E-S(015-020)	M6	PP/PTFE	0.20-0.25 N/m	Less than 100°C Pressure >0.8Mpa Wall thickness>0.5mm		
YJLDZ-BX-28P-E-S(020-025)	1/4-28UNF	PP/PTFE				
YJLDZ-BX-06P-E-S(020-025)	M6	PP/PTFE				
YJLDZ-HX-28P-E-S(020-025)	1/4-28UNF	PP/PTFE	0.11-0.15 N/m	Room Temperature Normal Pressure Wall thickness<0.5mm	YC-025 YC-030 YC-032	
YJLDZ-YX-28P-E-S(020-025)	M6	PP/PTFE				
YJLDZ-YX-06P-E-S(011-015)	1/4-28UNF	PP/PTFE				
YJLDZ-HX-28P-E-S(011-015)	1/4-28UNF	PP/PTFE	0.15-0.20 N/m	Room Temperature Normal Pressure Wall thickness>0.5mm		
YJLDZ-HX-06P-E-S(011-015)	M6	PP/PTFE				
YJLDZ-BX-28P-E-S(015-020)	1/4-28UNF	PP/PTFE				
YJLDZ-BX-28P-E-S(015-020)	M6	PP/PTFE	0.20-0.25 N/m	Less than 100°C Pressure >0.8Mpa Wall thickness>0.5mm		
YJLDZ-HX-28P-E-S(020-025)	1/4-28UNF	PP/PTFE				
YJLDZ-HX-06P-E-S(020-025)	M6	PP/PTFE				

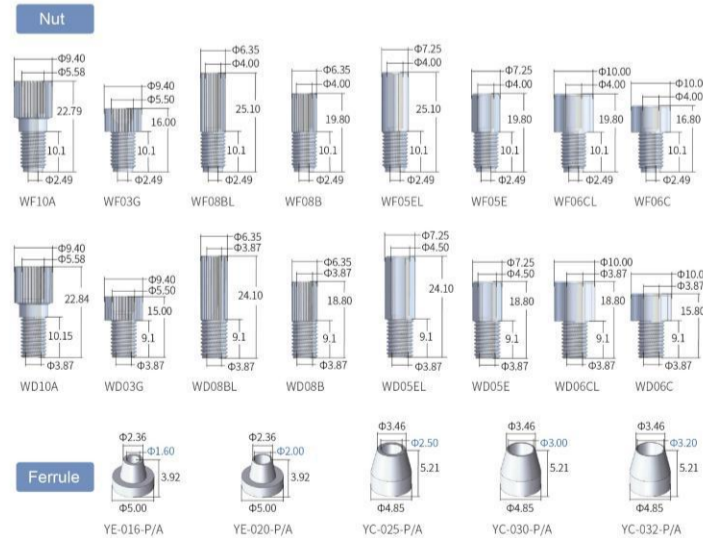
### Dimension (unit: mm)



### Specification

Nut Model	Thread	Material	Ferrule	Tube OD	Nut Model	Thread	Material	Ferrule	Tube OD
WF10A-1/4-28-P/E	1/4-28UNF	PP/PTFE	YE-016 YE-020	1.6mm 2.0mm	WD10A-1/4-28-P/E	1/4-28UNF	PP/PTFE	YC-025 YC-030 YC-032	2.5mm 3.0mm 3.2mm
WF10A-06-P/E	M6	PP/PTFE							
WF03G-1/4-28-P/E	1/4-28UNF	PP/PTFE							
WF03G-06-P/E	M6	PP/PTFE							
WF08BL-1/4-28-P/E	1/4-28UNF	PP/PTFE							
WF08BL-06-P/E	M6	PP/PTFE							
WF08B-1/4-28-P/E	1/4-28UNF	PP/PTFE	PP/PTFE	M6	WD08BL-1/4-28-P/E	1/4-28UNF	PP/PTFE		
WF08B-06-P/E	M6	PP/PTFE							
WF05EL-1/4-28-P/E	1/4-28UNF	PP/PTFE							
WF05EL-06-P/E	M6	PP/PTFE							
WF05E-1/4-28-P/E	1/4-28UNF	PP/PTFE							
WF05E-06-P/E	M6	PP/PTFE							
WF06CL-1/4-28-P/E	1/4-28UNF	PP/PTFE	PP/PTFE	M6	WD06CL-1/4-28-P/E	1/4-28UNF	PP/PTFE		
WF06CL-06-P/E	M6	PP/PTFE							
WF06C-1/4-28-P/E	1/4-28UNF	PP/PTFE							
WF06C-06-P/E	M6	PP/PTFE							
WF06C-1/4-28-P/E	1/4-28UNF	PP/PTFE							
WF06C-06-P/E	M6	PP/PTFE							

### Dimension (unit: mm)





## PEEK Flangeless Fittings

### 硬管接头

PEEK Flangeless Fittings come with PEEK flangeless nut and ETFE ferrule for your convenience. Flangeless fittings are excellent replacements for flanged fittings, they are dependable, easy to use and easy to replace.

PEEK Super Flangeless Fittings eliminates loosening of fittings due to tubing twist and holds tight even through vibration and increase the reusability with the help of 316 SST sleeves.

- PEEK nuts featured with high mechanical strength, solvent resistance (except strong sulphuric acid and strong nitric acid), high temperature resistance, wear resistance with its high friction coefficient, impact resistance
- Yellow Tefzel (ETFE) Ferrules are excellent for connecting most rigid or semi-rigid tubes, including tubing manufactured from fluoropolymers (FEP, PFA, ETFE, ECTFE, etc.). PEEK offers superior chemical resistance. It has a 1/4-28 Flat-Bottom port configuration and is for 1.6/2.0/2.5/3.0/3.175/3.2mm OD tubing.
- Long-time operation temperature from -100°C to +250°C
- Frequent disassembly supported
- Suit for mesolow liquid chromatography, gene detection, high-end bioanalysis

### Application Note (PEEK Flangeless Fittings)

Before connecting fittings, ensure the end of tubing has a clean, square, burr-free cut. This is very important, as the square cut helps the tubing make full contact with the bottom of matching port. Neglecting to properly cut the tubing could lead to dead volume, resulting in peak distortion such as fronting, tailing or broadening.

- 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

### Application Note (PEEK Super Flangeless Fittings)

Before connecting fittings, ensure the end of tubing has a clean, square, burr-free cut. This is very important, as the square cut helps the tubing make full contact with the bottom of matching port. Neglecting to properly cut the tubing could lead to dead volume, resulting in peak distortion such as fronting, tailing or broadening.

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

Model No.		
<b>WF09B - 1/4-28 - K</b>	<b>YE - 020 - F</b>	
Nut Model WF09B WF01B WP08B WD01B	Thread 1/4-28 - 1/4-28UNF 06 - M6	Material K - PEEK
Ferrule Model YE YC YK	Ferrule ID (Tube OD) 016 - 1.6mm 020 - 2.0mm 025 - 2.5mm 030 - 3.0mm 032 - 3.2mm	Material F - ETFE
<b>KCF - 038 - SUS316</b>		
Sleeve Model KCF-038-SUS316	Sleeve OD 038 - 3.8mm 045 - 4.5mm	Material SST316

WP08B-1/4-28-K - WP08B flangeless nut made of 1/4-28UNF male thread and PEEK material  
 YE-020-F - YE ferrule made of 2.0mm ID and ETFE material, suits for 2.0mm OD tubing  
 KCF-045-SUS316 - KCF sleeve made of 4.5mm OD (match with YK ferrules) and SST316 material



## Flanged Fittings

### 硬管接头

Flanged fittings perform well in high pressure (up to 1.5Mpa even higher) and non-movable systems.

- PP or PTFE flanged nut come with or without PPS clamp
- Compatible with flat bottom receiving port
- Finger-tight convenience, no wrenches required
- Used for standard rigid tubing OD 1/16" (1.6), 2.0mm, 2.5mm, 3.0mm, 1/8" (3.175), 3.2mm

### Application Note

Before flange the tubing, ensure the end of tubing has a clean, square, burr-free cut. This is very important, as the square cut helps the tubing make full contact with the bottom of matching port. Neglecting to properly cut the tubing could lead to dead volume, resulting in peak distortion such as fronting, tailing or broadening.

- 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

Note: Diameter of flanged tubing end ≤5mm

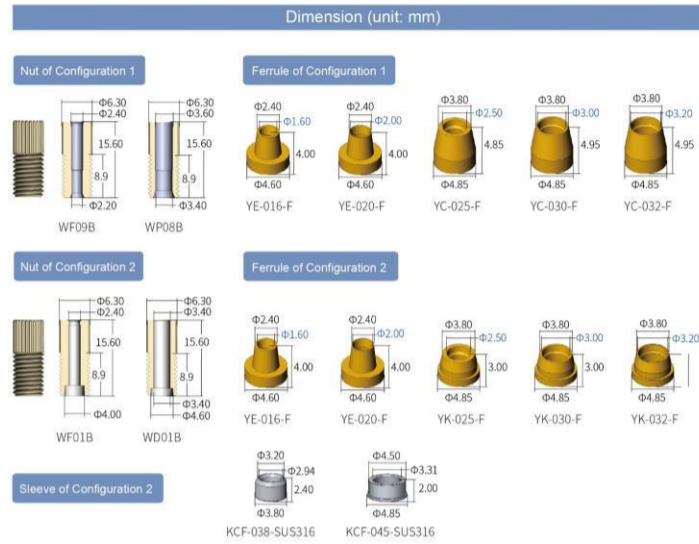
Model No.		
<b>WF10A - 1/4-28 - P</b>	<b>KC - 020 - PPS</b>	
Nut Model WF10A WD10A WF03G WD03G WF08BL WD08BL WF08B WD08B WF05EL WD05EL WF05E WD05E WF06CL WD06CL WF06C WD06C WF07Y WD07A	Thread 1/4-28 - 1/4-28UNF 06 - M6	Material P - PP E - PTFE S - PPS
Clip Model KC-020-PPS	Clip ID (Tube OD) 016 - 1.6mm 020 - 2.0mm 025 - 2.5mm 030 - 3.0mm 032 - 3.2mm	Material PPS - PPS SUS - SST

WF05EL-06-S  
WF05EL flangeless nut made of M6 male thread, PPS material  
 KC-020-PPS  
PPS material clip, suit for tubing 020.0mm

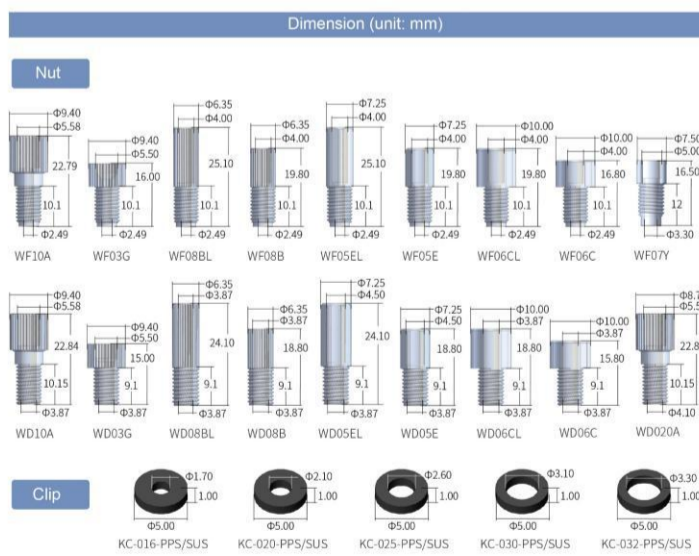
### Connection



Specification 1					Specification 2					
Nut Model	Thread	Material	Ferrule Model	Tubing OD	Nut Model	Thread	Material	Ferrule Model	Sleeve Model	Tubing OD
WF09B-1/4-28-K	1/4-28UNF	PEEK	YE-016-F	1.6mm	WF01B-1/4-28-K	1/4-28UNF	PEEK	YE-016-F	KCF-038-SUS	1.6mm
WF09B-06-K	M6	PEEK	YE-020-F	2.0mm	WF01B-06-K	M6	PEEK	YE-020-F		2.0mm
WP08B-1/4-28-K	1/4-28UNF	PEEK	YC-025-F	2.5mm	WD01B-1/4-28-K	1/4-28UNF	PEEK	YK-025-F	KCF-048-SUS	2.5mm
WP08B-06-K	M6	PEEK	YC-030-F	3.0mm	WD01B-06-K	M6	PEEK	YK-030-F		3.0mm
			YC-032-F	3.2mm				YK-032-F		3.2mm



Specification									
Nut Model	Thread	Material	Ferrule	Tube OD	Nut Model	Thread	Material	Ferrule	Tube OD
WF10A-1/4-28-P/E	1/4-28UNF	PP/PTFE			WD10A-1/4-28-P/E	1/4-28UNF	PP/PTFE		
WF10A-06-P/E	M6	PP/PTFE			WD10A-06-P/E	M6	PP/PTFE		
WF03G-1/4-28-P/E	1/4-28UNF	PP/PTFE			WD03G-1/4-28-P/E	1/4-28UNF	PP/PTFE		
WF03G-06-P/E	M6	PP/PTFE			WD03G-06-P/E	M6	PP/PTFE		
WF08BL-1/4-28-P/E	1/4-28UNF	PP/PTFE			WD08BL-1/4-28-P/E	1/4-28UNF	PP/PTFE		
WF08BL-06-P/E	M6	PP/PTFE			WD08BL-06-P/E	M6	PP/PTFE		
WF08B-1/4-28-P/E	1/4-28UNF	PP/PTFE			WD08B-1/4-28-P/E	1/4-28UNF	PP/PTFE		
WF08B-06-P/E	M6	PP/PTFE			WD08B-06-P/E	M6	PP/PTFE		
WF05EL-1/4-28-P/E	1/4-28UNF	PP/PTFE	KC-016	1.6mm	WD05EL-1/4-28-P/E	1/4-28UNF	PP/PTFE	KC-025	2.5mm
WF05EL-06-P/E	M6	PP/PTFE	KC-020	2.0mm	WD05EL-06-P/E	M6	PP/PTFE	KC-030	3.0mm
WF05E-1/4-28-P/E	1/4-28UNF	PP/PTFE			WD05E-1/4-28-P/E	1/4-28UNF	PP/PTFE	KC-032	3.2mm
WF05E-06-P/E	M6	PP/PTFE			WD05E-06-P/E	M6	PP/PTFE		
WF06CL-1/4-28-P/E	1/4-28UNF	PP/PTFE			WD06CL-1/4-28-P/E	1/4-28UNF	PP/PTFE		
WF06CL-06-P/E	M6	PP/PTFE			WD06CL-06-P/E	M6	PP/PTFE		
WF06C-1/4-28-P/E	1/4-28UNF	PP/PTFE			WD06C-1/4-28-P/E	1/4-28UNF	PP/PTFE		
WF06C-06-P/E	M6	PP/PTFE			WD06C-06-P/E	M6	PP/PTFE		
WF07Y-1/4-28-P/E	1/4-28UNF	PP/PTFE	KC-025	2.5mm	WD07A-1/4-28-P/E	1/4-28UNF	PP/PTFE		
WF07Y-06-P/E	M6	PP/PTFE	KC-030	3.0mm	WD07A-06-P/E	M6	PP/PTFE		
			KC-032	3.2mm	WD020A-06-P/E	M6	PP/PTFE		4.0mm





## Coned Plug 硬管接头

Coned plugs are used to close off unused ports in multiposition valves and multiport connectors

- PP and PTFE material for option
- 1/4-28UNF and M6 thread for option
- Professional injection molding result in accurate screw thread and best sealing performance

### Model No.

**WDD - 28 P**

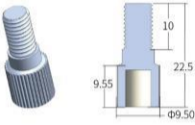
Model No. Thread 28-1/4-28UNF 06-M6 Material P-PP E-PTFE

WDD-28E  
Coned plug made of 1/4-28UNF male thread, PTFE material

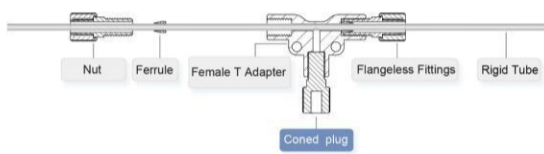
### Specification

Model No.	Thread	Material
WDD-28P	1/4-28UNF	PP
WDD-28E	1/4-28UNF	PTFE
WDD-06P	M6	PP
WDD-06E	M6	PTFE

### Dimension (unit: mm)



### Connection



## Female Adapters 硬管接头

Female adapters play an important role in fluid handling system. Matched with flanged and/or flangeless fittings to realize rigid tubing connection (more popularly used); matched with barb-to-male fittings to realize flexible tubing connection.

- Wide options – Union, T, Y, Cross
- PP and PTFE material for option
- Standard 1/4-28UNF female thread
- T and Cross adapters designed with mounting holes to keep it rightly positioned
- Adapting standard rigid tubing OD1/16"(1.6), 2.0mm, 2.5mm, 3.0mm, 1/8"(3.175mm), 3.2mm

### Model No.

**NF08 - 28 P**

Model No. NF08 - Female Union NT03 - Female T Adapter NY03 - Female Y Adapter NS04 - Female Cross Adapter

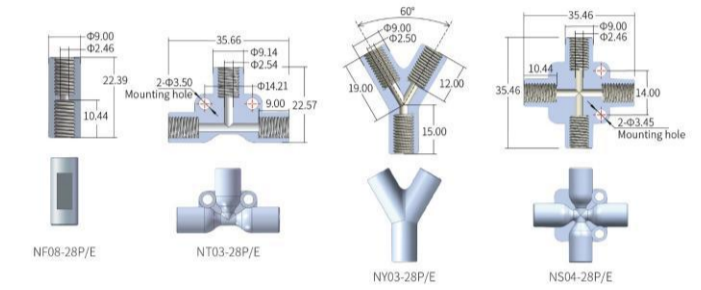
Thread 28-1/4-28UNF Material P-PP E-PTFE

### Specification

Model No.	Product Name	Thread	Material
NF08-28P	Female Union	1/4-28UNF	PP
NF08-28E	Female Union	1/4-28UNF	PTFE
NT03-28P	Female T Adapter	1/4-28UNF	PP
NT03-28E	Female T Adapter	1/4-28UNF	PTFE
NY03-28P	Female Y Adapter	1/4-28UNF	PP
NY03-28E	Female Y Adapter	1/4-28UNF	PTFE
NS04-28P	Female Cross Adapter	1/4-28UNF	PP
NS04-28E	Female Cross Adapter	1/4-28UNF	PTFE

NS04-28E  
Female cross connector made of 1/4-28UNF female thread, PTFE material

### Dimension (unit: mm)



## Threaded Bulkhead Union 硬管接头

Designed for Plumbing Tubing through Equipment Housing  
For use with standard 1/4-28UNF threaded fittings

Threaded Bulkhead Unions directly through your equipment housing to connect internal tubing to the outside. Each unions has M12 external thread and comes with complete with a PPS or PTFE nut to hold it in place. Requires a M12 hole to mount.

Matched with flanged and/or flangeless fittings to realize rigid tubing connection (more popularly used); matched with barb-to-male fittings to realize flexible tubing connection.

### Model No.

**NC - 28 P**

Model No. Thread 28-1/4-28UNF Material P-PP E-PTFE

NC-28E  
Female 1/4-28UNF Bulkhead Union made of PTFE material

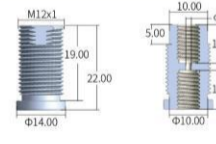
### Specification

Model No.	Female Thread	Material
NC-28P	1/4-28UNF	PP
NC-28E	1/4-28UNF	PTFE

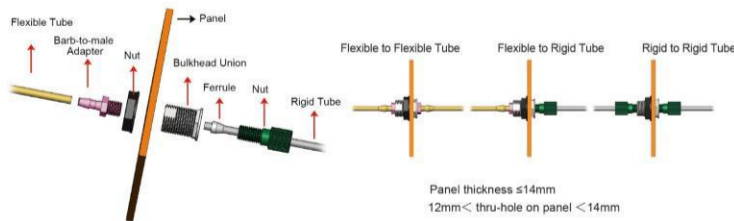
  

Nut Mode	Thread	Nut Material
M12*1-S	M12x1	PPS (black)
M12*1-E	M12x1	PTFE

### Dimension (unit: mm)



### Connection



## Barb-to-Female Adapter 混合接头

Elbow Barb-to-Female Adapters are used to navigate tight corners for flexible tubing transitioned to rigid tubing. One end is for connecting flexible tubing ID2.4-3.2mm, another end is for connecting flanged or flangeless fittings for rigid tubing.

Straight Barb-to-Female Adapters are used to transit flexible tubing into rigid tubing. One end is for connecting flexible tubing ID0.8-3.2mm, another end is for connecting flanged or flangeless fittings for rigid tubing.

### Model No.

**NL05 - 32 - 28 P**

Model No. NL05 - Elbow Barb-to-Female Adapter NI06 - Straight Barb-to-Female Adapter

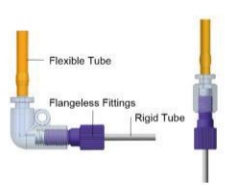
Tubing ID 16-1.0-1.6mm 24-1.6-2.4mm 32-2.4-3.2mm Thread 28-1/4-28UNF Material P-PP E-PTFE

NI06-24-28E  
Barb-to-Female adapter made of 1/4-28UNF female thread, PTFE material, suit for flexible tubing ID1.6-2.4mm

### Specification

Model No.	Product Name	Tubing ID	Thread	Material
NL05-32-28P	Elbow Barb-to-Female Adapter	2.4-3.2mm	1/4-28UNF	PP
NL05-32-28E	Elbow Barb-to-Female Adapter	2.4-3.2mm	1/4-28UNF	PTFE
NI06-16-28P	Straight Barb-to-Female Adapter	1.0-1.6mm	1/4-28UNF	PP
NI06-16-28E	Straight Barb-to-Female Adapter	1.0-1.6mm	1/4-28UNF	PTFE
NI06-24-28P	Straight Barb-to-Female Adapter	1.6-2.4mm	1/4-28UNF	PP
NI06-24-28E	Straight Barb-to-Female Adapter	1.6-2.4mm	1/4-28UNF	PTFE
NI06-32-28P	Straight Barb-to-Female Adapter	2.4-3.2mm	1/4-28UNF	PP
NI06-32-28E	Straight Barb-to-Female Adapter	2.4-3.2mm	1/4-28UNF	PTFE

### Connection



### Dimension (unit: mm)







## Barbed Bulkhead Union

### 软管接头

Designed for Peristaltic-type Flexible Tubing through Equipment Housing

Barbed Bulkhead Unions directly through your equipment housing to connect internal tubing to the outside. Each unions has 1/4"-28, M8 or M10 external thread and comes with complete with a nut to hold it in place. Requires a 1/4"-28, M8 or M10 hole to mount.

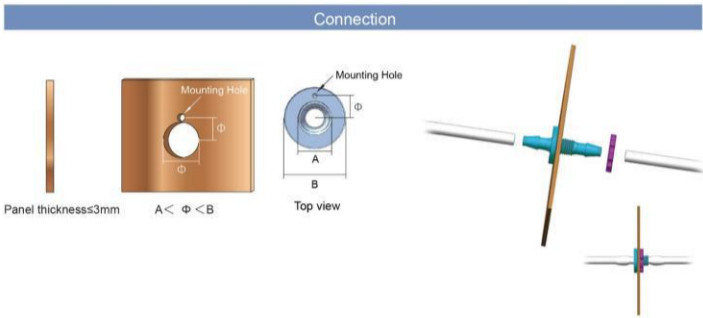
Equal Bulkhead Unions connect two same sizes tubing  
Reducing Bulkhead Union connect two different sizes tube

Model No.		
<b>1.6 - 1/4-28 - 1.6</b>	<b>LM - 1/4-28</b>	<b>P</b>
<b>Tubing ID</b> 1.6 - 1.0-1.6mm 2.4 - 1.6-2.4mm 3.2 - 2.4-3.2mm 4.0 - 3.2-4.0mm 4.8 - 4.0-4.8mm 6.4 - 4.8-6.4mm 8.7 - 6.4-8.7mm	<b>Thread</b> 1/4-28 - 1/4-28UNF M8 - M8 M10 - M10 M12 - M12	<b>Nut Model</b> 1/4-28 - 1/4-28UNF M8 - M8 M10 - M10 M12 - M12
<b>Material</b> P - PP E - PTFE		

4.8-M8-4.8  
Equal Bulkhead Union made of M8 male thread, suit for tubing

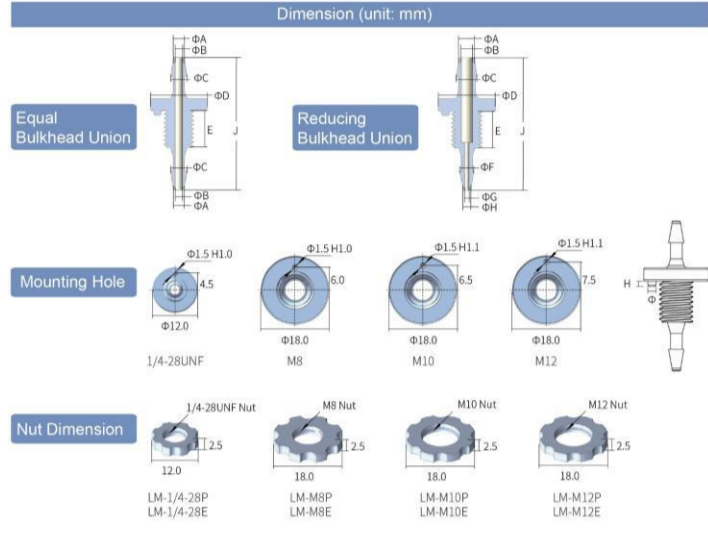
4.8-M8-6.4  
Reducer Bulkhead Union made of M8 male thread, suit for tubing ID4.0-4.8mm to ID4.8-6.4mm

LM-M8E  
Nut made of M8 female thread and PTFE material



### Specification

Model No.	Tubing ID	Material	$\phi$ A	$\phi$ B	$\phi$ C	$\phi$ D	E (Thread Length)	$\phi$ F	$\phi$ G	$\phi$ H	J	Nut
1.6-1/4-28-1.6	1.0-1.6	PP/PTFE	1.60	0.99	2.80	12	7.6	--	--	--	27.7	LM-1/4-28
2.4-1/4-28-2.4	1.6-2.4	PP/PTFE	2.40	1.58	3.40	12	7.6	--	--	--	27.7	LM-1/4-28
3.2-1/4-28-3.2	2.4-3.2	PP/PTFE	3.20	2.46	4.20	12	7.6	--	--	--	29.7	LM-1/4-28
4.0-M8-4.0	3.2-4.0	PP/PTFE	4.00	2.46	6.00	18	8.0	--	--	--	36.51	LM-M8
4.8-M8-4.8	4.0-4.8	PP/PTFE	4.80	3.94	6.80	18	8.0	--	--	--	37.3	LM-M8
6.4-M10-6.4	4.8-6.4	PP/PTFE	6.40	5.42	8.40	18	8.0	--	--	--	48.7	LM-M10
8.7-M12-8.7	6.4-8.7	PP/PTFE	8.70	7.39	10.70	18	8.0	--	--	--	49.7	LM-M12
1.6-1/4-28-2.4	(1.0-1.6)/(1.6-2.4)	PP/PTFE	2.40	1.58	3.40	12	7.7	2.80	0.99	1.60	27.7	LM-1/4-28
1.6-1/4-28-3.2	(1.0-1.6)/(2.4-3.2)	PP/PTFE	3.20	2.46	4.20	12	7.6	2.80	0.99	1.60	27.7	LM-1/4-28
2.4-1/4-28-3.2	(1.6-2.4)/(2.4-3.2)	PP/PTFE	3.20	2.46	4.20	12	7.6	3.40	1.58	2.40	28.5	LM-1/4-28
3.2-1/4-28-4.8	(2.4-3.2)/(4.0-4.8)	PP/PTFE	4.80	3.94	6.80	12	7.7	4.20	2.46	3.20	32.4	LM-1/4-28
3.2-1/4-28-6.4	(2.4-3.2)/(4.8-6.4)	PP/PTFE	6.40	5.42	8.40	12	7.7	4.20	2.46	3.20	33.5	LM-1/4-28
4.8-M8-6.4	(4.0-4.8)/(4.8-6.4)	PP/PTFE	6.40	5.42	8.40	18	8.0	6.80	3.94	4.80	39.9	LM-M8
6.4-M10-8.7	(4.8-6.4)/(6.4-8.7)	PP/PTFE	8.70	7.93	10.70	18	8.0	8.40	5.42	6.40	49.2	LM-M10
6.4-M10-12.7	(4.8-6.4)/(8.7-12.7)	PP/PTFE	12.70	10.34	14.70	18	8.0	8.40	4.93	6.40	48.5	LM-M10
8.7-M12-12.7	(6.4-8.7)/(8.7-12.7)	PP/PTFE	12.70	10.34	14.70	18	8.0	10.70	7.39	8.70	52.7	LM-M12



## Barbed Check Valve

### 软管接头

- Designed for connecting Peristaltic-type Flexible Tubing
- Control flow directions to make it inlet-only or outlet-only (Tell flow direction from the arrow on the valve)
- Once installed, the spring-actuated sealing system eliminates back flow, preventing upstream contamination or damage.

### Specification (unit: mm)

Model No.	Barbed End	Tubing ID	Valve Material	Sealing Material
RZ-CV018PAF	1/8	2.5-4.0	Nylon	Viton
RZ-CV018ABS	1/8	2.5-4.0	ABS	Silicone
RZ-CV018PPF	1/8	2.5-4.0	PP	Viton
RZ-CV018PPS	1/8	2.5-4.0	PP	Silicone
RZ-CV018PP-80mesh	1/8	2.5-4.0	PP	80 mesh diaphragm
RZ-CV018PPE	1/8	2.5-4.0	PP	EPDM
RZ-CV018PDF	1/8	2.5-4.0	PVDF	Viton
RZ-CV018PCF	1/8	2.5-4.0	PC	Viton
RZ-CV316PAF	3/16	4.0-5.5	Nylon	Viton
RZ-CV316ABS	3/16	4.0-5.5	ABS	Silicone
RZ-CV316PPF	3/16	4.0-5.5	PP	Viton
RZ-CV316PP-80mesh	3/16	4.0-5.5	PP	80 mesh diaphragm
RZ-CV316PDF	3/16	4.0-5.5	PVDF	Viton
RZ-CV316PCF	3/16	4.0-5.5	PC	Viton
RZ-CV014PAF	1/4	6.0-7.5	Nylon	Viton
RZ-CV014ABS	1/4	6.0-7.5	ABS	Silicone
RZ-CV014PPF	1/4	6.0-7.5	PP	Viton
RZ-CV014PDF	1/4	6.0-7.5	PVDF	Viton
RZ-CV014PCF	1/4	6.0-7.5	PC	Viton
RZ-CV516PAF	5/16	7.0-9.0	Nylon	Viton
RZ-CV516ABS	5/16	7.0-9.0	ABS	Silicone
RZ-CV516PPF	5/16	7.0-9.0	PP	Viton
RZ-CV516PDF	5/16	7.0-9.0	PVDF	Viton
RZ-CV516PCF	5/16	7.0-9.0	PC	Viton
RZ-CV038PAF	3/8	8.5-10.5	Nylon	Viton
RZ-CV038ABS	3/8	8.5-10.5	ABS	Silicone
RZ-CV038PPF	3/8	8.5-10.5	PP	Viton
RZ-CV038PPS	3/8	8.5-10.5	PP	Silicone
RZ-CV038PDF	3/8	8.5-10.5	PVDF	Viton
RZ-CV038PCF	3/8	8.5-10.5	PC	Viton
RZ-CV038PAF +30% Fiberglass	3/8	8.5-10.5	PA66-GF30%	Viton

Diaphragm check valve  
Unlock pressure < 2Kpa Back pressure > 300Kpa

### Specification (unit: mm)

Model No.	Barbed End	Tubing ID	Valve Material	Sealing Material
RGDXF-Y-V-016	1/16	1.0-1.6	PVDF	EPDM
RGDXF-Y-P-032	1/8	1.6-2.4	PP	Viton Silicone
RZ-BV018PPF	1/8	2.5-4.0	PP	Viton
RZ-BV018PPS	1/8	2.5-4.0	PP	Silicone
RZ-BV316PPFVMQ	3/16	4.5-6.0	PP	Viton Silicone
RZ-BV316PDFVMQ	3/16	4.5-6.0	PVDF	Viton Silicone

Coned check valve  
① Inlet  
② Sealing  
③ Outlet

### Specification (unit: mm)

Model No.	Barbed End	Tubing ID	Valve Material	Diaphragm Material	Spring/Steel ball Material
RZ-CV018SPPOF	1/8	2.5-4.0	PP	Viton	SUS316L
RZ-CV018SPDOF	1/8	2.5-4.0	PVDF	Viton	SUS316L
RZ-CV316SPPOF	3/16	4.5-6.0	PP	Viton	SUS316L
RZ-CV316SPDOF	3/16	4.5-6.0	PVDF	Viton	SUS316L
RZ-CV014SPPOF	1/4	6.0-7.5	PP	Viton	SUS316L
RZ-CV014SPDOF	1/4	6.0-7.5	PVDF	Viton	SUS316L
RZ-CV316SPAF	3/16	4.5-5.5	nylon	Viton	SUS316L
RZ-CV014SPAF	1/4	6.0-7.0	nylon	Viton	SUS316L
RZ-CV516SPAF	5/16	7.0-8.5	nylon	Viton	SUS316L

Spring check valve  
① Inlet  
② O sealing ring  
③ Steel ball  
④ Spring  
⑤ Outlet  
Unlock pressure < 5Kpa Back pressure > 300Kpa



## Luer Adapters

### 软管接头

Luer adapters were designed to work in a variety of applications such as medical and laboratory instruments. You can create your own quick connect union or adapter by connecting any male luer to any female luer.

- Quick disconnect and replacement
- Adapts luers to 1/4"-28 threaded ports
- Medical grade PP version (Other material customize support)
- For Flexible tubing ID 1/16" 3/32" 1/8" 5/32" 3/16" 1/4"
- For Rigid tubing OD 1/16" (1.6), 2.0/2.5/3.0/3.2mm, 1/8" (3.175)

### Model No.

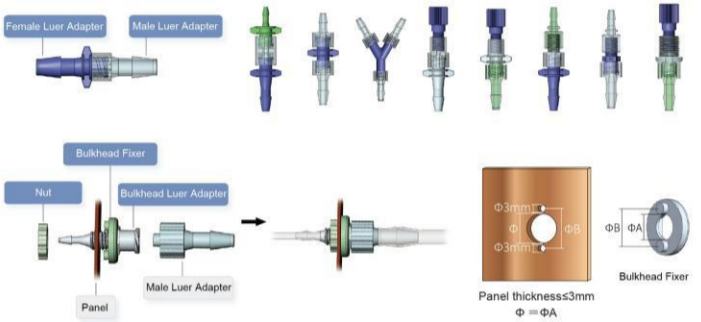
RH - C - M 016		RH - G - (1/4-28) N	
Luer adapter	Bulkhead	Luer adapter	Bulkhead
Model No. G - Male luer M - Female luer	Model No. G - Male luer M - Female luer	Model No. G - Male luer M - Female luer 2G - Male-to-Male luer 2M - Female-to-Female luer 3M - Female-to-Female luer 4M - Cross Female luer	Model No. G - Male luer M - Female luer 2G - Male-to-Male luer 2M - Female-to-Female luer 3M - Female-to-Female luer 4M - Cross Female luer
Tubing ID 016 - 1.0-1.6mm 024 - 1.6-2.4mm 032 - 2.4-3.2mm 040 - 3.2-4.0mm 048 - 4.0-4.8mm 064 - 4.8-6.4mm	Tubing ID 016 - 1.0-1.6mm 024 - 1.6-2.4mm 032 - 2.4-3.2mm 040 - 3.2-4.0mm 048 - 4.0-4.8mm 064 - 4.8-6.4mm	Thread 1/4-28UNF	Thread N - Female W - Male

RH-G032: Male luer adapter suit tubing ID2.4-3.2mm

RH-2M: Female luer-to-luer adapter

RH-M-(1/4-28)W: Female luer-to-male thread 1/4-28UNF

### Connection



### Specification (unit: mm)

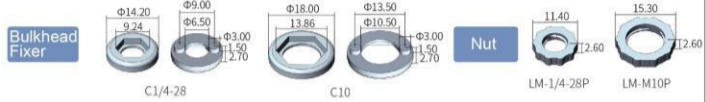
Model No.	Tubing ID	Material	ΦA	ΦB	ΦC	H
RH-G016	1.0-1.6	PP	1.60	0.99	2.80	18.6
RH-G024	1.6-2.4	PP	2.40	1.58	3.40	18.6
RH-G032	2.4-3.2	PP	3.20	2.46	4.20	19.6
RH-G040	3.2-4.0	PP	4.00	2.96	6.00	25
RH-G048	4.0-4.8	PP	4.80	3.94	6.80	25
RH-G064	4.8-6.4	PP	6.35	5.42	8.40	27.1

Model No.	Tubing ID	Material	ΦA	ΦB	ΦC	H
RH-M016	1.0-1.6	PP	1.60	0.99	2.80	19
RH-M024	1.6-2.4	PP	2.80	1.58	3.40	20
RH-M032	2.4-3.2	PP	3.20	2.46	4.20	20
RH-M040	3.2-4.0	PP	4.00	2.46	6.00	27.5
RH-M048	4.0-4.8	PP	4.80	2.96	6.80	27.5
RH-M064	4.8-6.4	PP	6.35	4.43	8.40	27.5

Model No.	Tubing ID	Material	ΦA	ΦB	ΦC	H	Thread	Stator	Nut
RH-C-M016	1.0-1.6	PP	1.60	0.99	2.40	25	1/4-28UNF	C1/4-28	LM-1/4-28P
RH-C-M024	1.6-2.4	PP	2.40	1.58	3.40	25	1/4-28UNF	C1/4-28	LM-1/4-28P
RH-C-M032	2.4-3.2	PP	3.20	2.46	4.20	25	1/4-28UNF	C1/4-28	LM-1/4-28P
RH-C-M040	3.2-4.0	PP	4.00	2.96	6.00	32.5	M10	C10	LM-M10P
RH-C-M048	4.0-4.8	PP	4.80	3.94	6.80	32.5	M10	C10	LM-M10P
RH-C-M064	4.8-6.4	PP	6.35	5.42	8.40	32.5	M10	C10	LM-M10P



### Dimension (unit: mm)

