# THREADED FITTINGS

### **MATERIAL CHARACTERISTICS**

Applicable temperature range: -50°C  $\sim$  100°C

PP	Polypropylene is a polymer made by the polymerization of propylene. It is transparent and light in appearance, resistant to acids, alkalis, salts and many organic solvents below 80°. It is a UL approved material and meets FDA food contact standards. Applicable temperature range: 13°C ~ 66°C	PTFE	Polytetrafluoroethylene, with typical excellent properties of gas plastic resin. It has good tensile properties, chemical resistance and low friction. Applicable temperature range: -50°C ~ 100°C
PPS	It 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 which ensures good load bearing properties.	ETFE	It is a fluoropolymer with hydrolysis stability and weather resistance, excellentwearresistance and chemical resistance. Applicable temperature range: -80°C ~ 150°C
	Applicable temperature range: -50°C~150°C		
PFA	Copolymer made from a small amount of heptafluoropropyl trifluorovinyl ether and polytetrafluoroethylene. Melt bonding is improved while solution viscosity is reduced and there is no change in performance compared to polytetrafluoroethylene.	PVDF	Kynar <sup>®</sup> PVDF is a fluorinated thermoplastic homopolymer that complies with FDA and USP Class VI standard. It can be disinfected by gamma ray; the color will be changed to some extent if disinfected by high-dose gamma ray. Applicable temperature range: -27°C ~ 107°C

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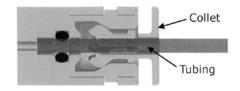


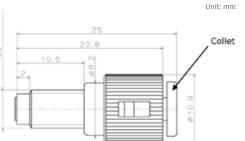
## **PUSH-IN FITTINGS**

For rigid tubing O.D. 2.0 mm



- Push-In Fittings for Life-Science applications.
- Tool-free connection simply push in the tubing onto the connector.
- Easy (re-)connecting the tube without unscrewing the fitting using the push-in connection.
- Used for standard rigid tubing OD 2.0 mm.
- Fluid temperature up to 100°C
- Working pressure up to 7.0 bar at 20°C and 4.5 bar at 100°C.
- Wetted materials: PPS & FPM
- Thread: M6.





Product No.	Thread	Tubing Size O.D.	Color	Material
PFM6-20RF PPS	M6	2.0 mm	Natural	PPS



**THREADED FITTINGS** 

# **ANTI-TWIST FLANGELESS FITTINGS - TWO-PIECE SET**

1/4-28 UNF flat bottom



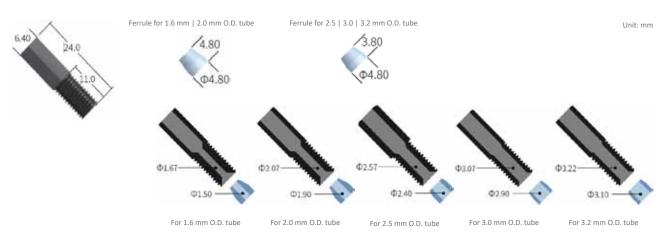
#### **Application Note**

Step 1. Slide the nut, followed by the ferrule, at least 3/16" (4.7625 mm) 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.



Product No.	Thread	Tubing Size O.D.	Pull-off Strength	Pressure Rating	Material
B-RA-106001	1/4-28 UNF	1.6 mm	1.58 kgf	69.7 bar (1010 psi)	PPS+ETFE
B-RA-106002	1/4-28 UNF	2.0 mm	3.06 kgf	75.7 bar (1097 psi)	PPS+ETFE
B-RA-106003	1/4-28 UNF	2.5 mm	2.52 kgf	46 bar (667 psi)	PPS+ETFE
B-RA-106004	1/4-28 UNF	3.0 mm	4.90 kgf	50.8 bar (736 psi)	PPS+ETFE
B-RA-106005	1/4-28 UNF	3.2 mm	6.15 kgf	73.2 bar (1061 psi)	PPS+ETFE



# **FLANGELESS FITTINGS**

For rigid tubing



- Standard fittings with straight threads.
- Tool-free assembly simply slip the nut and ferrule on the tube, screwing them into the tube.
- Need to use with ETFE ferrule.
- Long-term working temperature range: -27°C ~ +107°C (PVDF+ETFE),
  -50°C ~ +150°C (PPS+ETFE).
- Used for standard rigid tubing OD 1.6/2.0/2.5/3.0/3.2 mm, easy and fast installation.
- Thread: 1/4-28 UNF flat bottom.



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.

#### **Application Note**

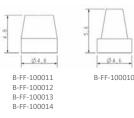
**Step 1.** Slide the PPS | PVDF nut, followed by the ETFE ferrule, at least 3/16" (4.7625 mm) from the end of clean cut tubing.

**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.

Ferrule No.	Tubing Size O.D.	Material
B-FF-100010	1.6 mm	ETFE
B-FF-100011	2.0 mm	ETFE
B-FF-100012	2.5 mm	ETFE
B-FF-100013	3.0 mm	ETFE
B-FF-100014	3.2 mm	ETFE

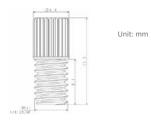




Flangeless Fitting 1/4-28 UNF				Unit: mm
Product No.	Thread	Tubing Size O.D.	Color	Material
B-FF-100001-PV-NA	1/4-28 UNF	1.6 mm	Natural	PVDF
B-FF-100001-PS-BK	1/4-28 UNF	1.6 mm	Black	PPS
B-FF-100002-PV-NA	1/4-28 UNF	2.0 mm   2.5 mm   3.0 mm   3.2 mm	Natural	PVDF
B-FF-100002-PS-BK	1/4-28 UNF	2.0 mm   2.5 mm   3.0 mm   3.2 mm	Black	PPS

## Compact Flangeless Fitting 1/4-28 UNF

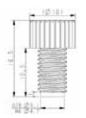




Product No.	Thread	Tubing Size O.D.	Color	Material
B-FF-100004-PV-NA	1/4-28 UNF	1.6 mm	Natural	PVDF
B-FF-100004-PS-BK	1/4-28 UNF	1.6 mm	Black	PPS
B-FF-100003-PV-NA	1/4-28 UNF	2.0 mm   2.5 mm   3.0 mm   3.2 mm	Natural	PVDF
B-FF-100003-PS-BK	1/4-28 UNF	2.0 mm   2.5 mm   3.0 mm   3.2 mm	Black	PPS

## Plug Fitting 1/4-28 UNF, M6









Product No.	Thread	Color	Material
B-FP-100001-PV-NA	1/4-28 UNF	Natural	PVDF
B-FP-100002-PS-BK	1/4-28 UNF	Black	PPS
B-FP-100003-PS-BK	M6	Black	PPS

Unit: mm

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