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Page 4 OMNI-LOK™ TYPE P

Chemically inert flangeless fitting with permanently attached PTFE ferrule. Ideal for repeat connect/disconnect. Our highest pressure rated system.



Page 6 OMNI-LOK™TYPE S

Chemically inert flangeless fitting with permanently attached PEEK™ or ETFE ferrules. Ideal for repeat connect/disconnect.



Page 8 OMNI-LOK™ INVERTED CONE

Removeable and reusable system for quick and convenient low-pressure connections. No tools required for assembly.



Page 10 OMNI-LOK™ FLANGED

Flanged (flared) tubing system for economical low pressure connections.



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Chemically inert flangeless fitting with permanently attached PTFE ferrule. Ideal for repeat connect/disconnect.



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Low-pressure check valves with $\frac{1}{4}$ "-28 UNF threads or Omnifit® "cap-type" connections



Plastics

ETFE = ethylene tetrafluoroethylene PTFE = polytetrafluoroethylene PEEK™ = polyetheretherketone PP = polypropylene

PC = polypropylene PC = polycarbonate Trademarks

PEEK[™] is a registered trademark of Victrex plc.

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Bio-Chem Valve™, Bio-Chek™ are trademarks of Bio-Chem Fluidics Inc.

Click-N-Seal™ is a trademark of Diba Industries Inc.

Fitting Systems Selection Guide

In the table below:

- 1. Locate the outer diameter (OD) of the tubing you wish to connect;
- 2. Choose the maximum pressure rating you require;
- 3. Locate the type of threads your port has;
- 4. Turn to the pages indicated to see full details and ordering information for each system.

Tubing OD Max pre		ressure		Port threads			
Tubing OD	psi	bar	1⁄4"-28 UNF	M6	5√6″-24 UNF		
			Omni-Lok™ Inverted Cone (p8)	Omni-Lok™ Inverted Cone (p8)			
	250 17		Click-N-Seal™ Inverted Cone (p15) Omni-Lok™ Flanged (p10)	Click-N-Seal™ Inverted Cone (p15)			
1/ //	500	2.4	Omni-Lok™ Type S (p6)	Omni-Lok™ Type S (p6)			
1/16"	500	34	Click-N-Seal™Type S (p15)	Click-N-Seal™Type S (p15)	ĺ		
			Omni-Lok™Type P (p4)	Omni-Lok™ Type P (p4)			
	1000	69	Gripper (p12) Click-N-Seal™ Type P (p15)	Click-N-Seal™Type P (p15)			
2.0mm	250	17	Omni-Lok™ Inverted Cone (p8) Click-N-Seal™ Inverted Cone (p15)	· Click-N-Seal™ Inverted Cone (p15)			
2.5mm	250	17	Omni-Lok™ Inverted Cone (p8) Click-N-Seal™ Inverted Cone (p15)	Click-N-Seal™ Inverted Cone (p15)			
3.0mm	250	17	Omni-Lok™ Inverted Cone (p8)	Click-N-Seal™ Inverted Cone (p15)			
3.011111		.,	Click-N-Seal™ Inverted Cone (p15)	chek it sear inverted cone (p13)			
	250		Omni-Lok™ Inverted Cone (p8)	ļ			
		250 17	High Temp Inverted Cone (p9)	Click-N-Seal™ Inverted Cone (p15)			
		250	Omni-Lok™ Flanged (p10)	.50 17			
			Click-N-Seal™ Inverted Cone (p15)				
1/8"	500	34	Omni-Lok™ Type S (p6)	Omni-Lok™Type S (p6)			
, ,		J .	Click-N-Seal™Type S (p15)	Click-N-Seal™Type S (p15)			
			Omni-Lok™Type P (p4)	Omni-Lok™ Type P (p4)			
	1000	69	Gripper (p12)	High Temp Gripper (p13)			
	1000		High Temp Gripper (p13) Click-N-Seal™ Type P (p15)	Click-N-Seal™Type P (p15)			
	30	2	Chek it Sear Type i (p15)		Omni-Lok™ Inverted Cone (p8)		
ŀ					Omni-Lok™ Type S (ETFE) (p6)		
³ /16"	120	8			Omni-Lok™ Type S (PEEK™) (p6)		
İ	200	14			Omni-Lok™ Type P (p4)		

OMNI-LOK™ TYPE P

Chemically inert flangeless fitting with permanently attached PTFE ferrule ideal for repeat connect/disconnect

- Pressure rated up to 1000psi (69 bar)
- For 1/6", 1/8" or 3/16" OD semi-rigid tubing e.g. PTFE, ETFE, FEP
- For flat-bottom 1/4"-28 UNF, M6 or 5/16"-24 UNF ports

The Omni-Lok[™] Type P fitting system uses a one-piece ferrule which fits permanently onto the outside of semi-rigid tubing. Ferrules have an inner PTFE sealing face ensuring that only PTFE is in the fluid path.

The fitting nut can spin freely, eliminating tubing twist. A recess in the fitting houses the ferrule, allowing maximum thread engagement with the port. This ensures the system stays sealed up to 1000psi (69 bar) pressure, even in shallow PTFE ports. Note: Omni-Lok[™] Type P for ¾6" OD tubing and 5/6"-24 UNF flat-bottom ports is pressure rated up to 200 psi (14 bar).

Compact head fitting nuts, in glass-filled polypropylene, are available in a range of different colors for easy line identification. Other options are a longer length nut for applications where accessibility is an issue (1/8" OD tubing only) and standard head nuts in PEEK™ for higher temperatures.

Assembly of Omni-Lok™ type P fittings onto tubing requires the use of simple tooling. See the assembly instructions on our website for full details.

For 1/16" OD Tubing

002122S

FERRULES FOR 1/16" OD TUBING

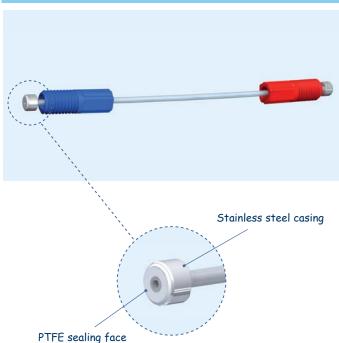
PART NUMBER	DESCRIPTIO	N		
008FT16	One piec and M6 r	e PTFE ferrule outs	for ¼•28	10pk
NUTS FOR 1/16" C	DD TUBING			
PART NUMBER	MATERIAL	COLOR	THREAD	QTY
008NF16-YC5B	PP	Black	1/4•28	10pk
008NF16-YC5U	PP	Blue	1⁄4•28	10pk
008NF16-YC5A	PP	Gray	1/4•28	10pk
008NF16-YC5G	PP	Green	1⁄4•28	10pk
008NF16-YC5N	PP	Orange	1⁄4•28	10pk
008NF16-YC5R	PP	Red	1⁄4•28	10pk
008NF16-YC5H	PP	White	1⁄4•28	10pk
008NF16-YC5Y	PP	Yellow	1/4•28	10pk
008NF16-YC6B	PP	Black	M6	10pk

Natural

1/4•28

ea

SPECIFICATIONS





008NF16-YC5U Nut for 1/16" OD tubing 1/4•28. blue



008NF16-YC6B Nut for 1/16" OD tubing M6, black



008FT16 Type P ferrule for 1/16" OD tubing



0021225 PEEK™ nut for 1/16" OD tubing, 1/4•28

PEEK™

For 1/8" OD Tubing

FERRULES FOR 1/8" OD TUBING PART NUMBER DESCRIPTION One piece PTFE ferrule for 1/4-28 008FT32 10pk and M6 nuts

NUTS FOR 1/8" OD TUBING				
PART NUMBER	MATERIAL	COLOR	THREAD	QTY
008NF32-YC5B	PP	Black	1⁄4•28	10pk
008NF32-YC5U	PP	Blue	1/4•28	10pk
008NF32-YC5A	PP	Gray	1/4•28	10pk
008NF32-YC5G	PP	Green	1/4•28	10pk
008NF32-YC5N	PP	Orange	1/4•28	10pk
008NF32-YC5R	PP	Red	1/4•28	10pk
008NF32-YC5H	PP	White	1/4•28	10pk
008NF32-YC5Y	PP	Yellow	1/4•28	10pk
008NF32-YL5B	PP	Black	1⁄4•28	10pk
008NF32-YC6B	PP	Black	M6	10pk
002222S	PEEK™	Natural	1⁄4•28	ea







008NF32-YC6B Nut for 1/8" OD tubing M6, black



008FT32 Type P ferrule for 1/8" OD tubing



008NF32-YL5B Long nut for 1/8" OD tubing, 1/4•28, black



0022225 PEEK™ nut for 1/8" OD tubing, 1/4.28

For 3/16" OD Tubing

FERRULES FOR %6" OD TUBING					
PART NUMBER	DESCRIPTIO	N			
008FT47	One piece	e PTFE ferru	ule for 5/16•24 nu	ts 10pk	
NUTS FOR 3/6" OD TUBING					
PART NUMBER	MATERIAL	COLOR	THREAD	QTY	
008NF47-YC7B	PP	Black	5/16•24	10pk	



008NF47-YC7B Nut for 3/16" OD tubing 5/16•24, black



008FT47 Type P ferrule for 3/16" OD tubing

Blanking Plugs

ETFE nut with PTFE sealing face designed to seal unused ports. These blanking plugs can be used in any flat-bottom 1/4"-28 UNF port.

BLANKING PLUG FOR 1/4-28 FLAT-BOTTOM PORTS						
PART NUMBER	MATERIAL	COLOR	THREAD	QTY		
002320	ETFE	Natural	1⁄4•28	2pk		



002320 ETFE plug for 1/4•28 ports

TECHTIP:

Some shallow ports, especially those found in solenoid valves, may offer limited thread engagement for most standard fittings. Ports machined from PTFE can also be slippery and difficult to seal, with fittings becoming loose and "backing out". With glassfilled polypropylene and a recessed ferrule, Omni-Lok™ fittings are specifically designed for for use in shallow and PTFE ports to ensure maximum security and a leak-free seal.

OMNI-LOK™ TYPE S

Chemically inert flangeless fitting with permanently attached PEEK™ or ETFE ferrules, ideal for repeated connect/disconnect

- Pressure rated up to 500psi (34 bar)
- For 1/6", 1/8" or 3/16" OD semi-rigid tubing e.g. PTFE, ETFE, FEP
- For flat-bottom 1/4"-28 UNF, M6 or 5/16"-24 UNF ports
- PEEK™ ferrules can be used with rigid tubing, e.g. PEEK™

The Omni-Lok™ Type S fitting system uses a two-piece ferrule which fits permanently to the outside of the tubing. Two-part ferrules consist of an inner PEEK™ or ETFE sealing surface surrounded by a stainless steel lock ring with only the inner portion in the fluid path.

The fitting nut can spin freely against the ferrule, eliminating tubing twist and subsequent loosening of the nut. A recess in the fitting houses the ferrule, allowing maximum thread engagement with the port ensuring the system stays sealed up to 500psi (34 bar) pressure even in shallow PTFE ports. Note: The Omni-Lok™ Type S for 3/16" OD tubing and $\frac{5}{6}$ "-24 UNF flat-bottom ports is pressure rated up to 200 psi (14 bar).

Compact head fitting nuts in glass-filled polypropylene, are available in a range of different colors for easy line identification. Other options are a longer length nut for applications where accessibility is an issue (1/8" OD tubing only) and standard head nuts in PEEK™ for higher temperatures. The Type S PEEK™ ferrule can be used with rigid PEEK™ tubing and a PEEK™ fitting nut to create a robust, high temperature assembly.

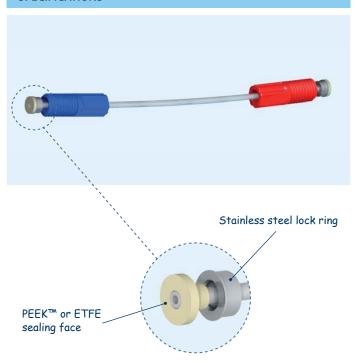
For 1/16" OD Tubing

FERRULES FOR 1/16" OD TUBING				
PART NUMBER	DESCRIPTION			
008FK16	PEEK™ ferrule and SS lock ring	10pk		
008FZ16	ETFE ferrule and SS lock ring	10pk		

008FK16 & 008FZ16 ferrules can be used with all nuts listed and either 1/4-28 and M6 flat-bottom ports.

NUTS FOR 1/16" OD TUBING					
PART NUMBER	MATERIAL	COLOR	THREAD	QTY	
008NF16-YC5B	PP	Black	1⁄4•28	10pk	
008NF16-YC5U	PP	Blue	1⁄4•28	10pk	
008NF16-YC5A	PP	Gray	1⁄4•28	10pk	
008NF16-YC5G	PP	Green	1⁄4•28	10pk	
008NF16-YC5N	PP	Orange	1⁄4•28	10pk	
008NF16-YC5R	PP	Red	1⁄4•28	10pk	
008NF16-YC5H	PP	White	1⁄4•28	10pk	
008NF16-YC5Y	PP	Yellow	1⁄4•28	10pk	
008NF16-YC6B	PP	Black	M6	10pk	
002122S	PEEK™	Natural	1⁄4•28	ea	

SPECIFICATIONS





008NF16-YC5U Nut for 1/16" OD tubing, 1/4•28. blue



008FK16 Two-part ferrule, PEEK™



008FZ16 Two-part ferrule, ETFE



008NF16-YC6B Nut for 1/16" OD tubing M6, black



0021225 PEEK™ nut for 1/16" OD tubing 1/4•28, natural

TECHTIP:

Need a completely PEEK[™] connection?

An all-PEEK™ fitting and tubing system can be obtained using the Omni-Lok™ Type S ferrule in PEEK™, with PEEK™ tubing and the PEEK™ fitting nuts shown. Perfect for higher temperature applications or harsh environments.

For 1/8" OD Tubing

FERRULES FOR 1/8" OD TUBING PART NUMBER DESCRIPTION 008FK32 PEEK™ ferrule and SS lock ring 10pk 008FZ32 ETFE ferrule and SS lock ring 10pk

008FK32 & 008FZ32 ferrules can be used with all nuts listed and either 1/4•28 and M6 flat-bottom ports.

NUTS FOR 1/8" OD TUBING					
PART NUMBER	MATERIAL	COLOR	THREAD	QTY	
008NF32-YC5B	PP	Black	1/4•28	10pk	
008NF32-YC5U	PP	Blue	1/4•28	10pk	
008NF32-YC5A	PP	Gray	1/4•28	10pk	
008NF32-YC5G	PP	Green	1/4•28	10pk	
008NF32-YC5N	PP	Orange	1/4•28	10pk	
008NF32-YC5R	PP	Red	1/4•28	10pk	
008NF32-YC5H	PP	White	1/4•28	10pk	
008NF32-YC5Y	PP	Yellow	1/4•28	10pk	
008NF32-YL5B	PP	Black	1⁄4•28	10pk	
008NF32-YC6B	PP	Black	M6	10pk	
002222S	PEEK™	Natural	1⁄4•28	ea	

008NF32-YC5R Nut for 1/8" OD tubing 1/4•28,red



008FK32 Two-part ferrule, PEEK™



008FZ32 Two-part ferrule, ETFE



008NF32-YC6B Nut for 1/8" OD tubing M6, black



0022225 PEEK™ nut for $\frac{1}{8}$ OD tubing, $\frac{1}{4}$ 28



008NF32-YL5B Long nut for 1/8" OD tubing, 1/4•28, black

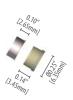
For 3/16" OD Tubing

FERRULES FOR 3/16	"OD TUBING	
PART NUMBER	DESCRIPTION	QTY
008FK47	PEEK™ ferrule and SS lock ring	10pk
008FZ47	ETFE ferrule and SS lock ring	10pk
NUITS EOD 3%2" OD	THRING	

NUTS FOR 3/6" OD TUBING						
PART NUMBER	MATERIAL	COLOR	THREAD	QTY		
008NF47-YC7B	PP	Black	5/16•24	10pk		



008NF47-YC7B Nut for 3/16" OD tubing 5/16•24, black



008FK47 Two-part ferrule, PEEK™

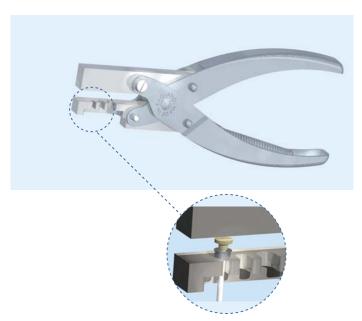


008FZ47 Two-part ferrule, ETFE

Omni-Lok™ Type S Assembly Tool

The Omni-Lok™ Type S two-piece ferrule is easily assembled onto tubing using this tool. Simply cut the tube end square, then fit the Omni-Lok™ ferrule and lock ring onto the squarely cut tube end, load into the assembly tool and squeeze the tool handles together to press the lock ring onto the ferrule. Full instructions are provided with the tool and on our website.

OMNI-LOK™ TYPE S ASSEMBLY TOOL					
PART NUMBER	DESCRIPTION	QΤΥ			
008AT	Assembly tool	ea			



OMNI-LOK™ INVERTED CONE FITTINGS

Removable and reusable system for quick and convenient low-pressure connections

- Pressure rated up to 250psi (17 bar)
- For \(\frac{1}{6}'' \, \frac{1}{8}'' \) or \(\frac{3}{6}'' \) OD and metric sizes 2.0, 2.5 or 3.0mm OD semi-rigid tubing e.g. PTFE, ETFE, FEP
- For flat-bottom 1/4"-28 UNF, M6 or 5/16"-24 UNF ports

Omni-Lok™ inverted cone fittings provide a simple, easy to use lowpressure connection. Only the ETFE cone is in the fluid path.

No tools are required to assemble a flangeless fitting quickly and economically - just slip the fitting nut and the ETFE cone over the tubing and screw into the port. None of the parts are permanently attached to the tubing, so both fittings and inverted cones can easily be removed and re-used. A recess in the fitting houses the inverted cone, allowing maximum thread engagement with the port ensuring the system stays sealed up to 250psi (17 bar) pressure even in shallow PTFE ports. Note: The Omni-Lok™ inverted cone and fitting nut for \%" OD tubing and \%"-24 UNF flat-bottom ports is pressure rated up to 30 psi (2 bar).

Fitting nuts in robust, glass-filled polypropylene are available in a range of different colors for easy line identification. Nuts are also available in PEEK™ with standard and compact head designs or with shorter thread length for shallow ports.

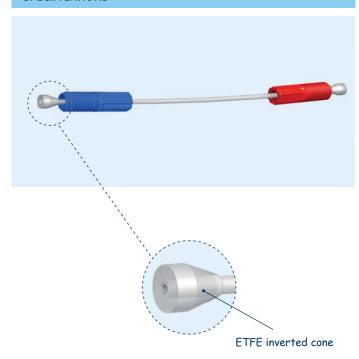
For 1/16" OD Tubing

INVERTED CONES FOR 1/16" OD TUBING					
PART NUMBER	DESCRIPTION	QTY			
008CZ16	ETFE inverted cone	10pk			

008CZ16 inverted cones can be used with all nuts listed below.

NUTS FOR 1/16" O	DTUBING			
008NC16-YC5U	PP	Blue	1/4•28	10pk
008NC16-YC5G	PP	Green	1/4•28	10pk
008NC16-YC6U	PP	Blue	M6	10pk
002144	PEEK™	Natural	1/4•28	ea
002144S	PEEK™	Natural	1/4•28	ea
002145	PEEK™	Natural	1/4•28	ea

SPECIFICATIONS





008NC16-YC5U Nut for 1/16" OD tubing 1/4•28, blue



008NC16-YC6B Nut for 1/16" OD tubing M6, black



008CZ16 Omni-Lok™ inverted cone for 1/16" OD tubing



0021445 PEEK™ nut for 1/16" OD tubing, 1/4•28



002144 PEEK™ nut for 1/16" OD tubing, 1/4.28



002145 Compact PEEK™ nut for 1/16" OD tubing, 1/4•28

For 1/8" OD Tubing

INVERTED CONES FOR 1/8" OD TUBING DESCRIPTION PART NUMBER QTY 001545 ETFE inverted cone 10pk

PEEK™ NUT	S FOR 1/8" O	D TUBING				
PART NUMBER	HEAD	LENGTH	MATERIAL	COLOR	THREAD	QTY
002244	Standard	Standard	PEEK™	Natural	1⁄4•28	ea
002244S	Standard	Short	PEEK™	Natural	1⁄4•28	ea
002245	Compact	Standard	PEEK™	Natural	1⁄4•28	ea



002244 PEEK™ nut for 1/8" OD tubing 1/4•28, natural



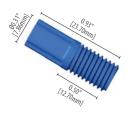
002245 Compact PEEK™ nut for 1/8" OD tubing, 1/4 • 28



001545 ETFE inverted cone for 1/8" OD tubing

For 3/16" OD Tubing

	A				
INVERTED CON	E FOR 3/16" O	DTUBING			
PART NUMBER	DESCRIPTIO	ON		QTY	
008CZ47	ETFE inverted cone			10pk	
NUTS FOR 3/16" OD TUBING					
PART NUMBER	MATERIAL	COLOR	THREAD	QTY	
008NC47-YC7U	PP	Blue	5/16•24	10pk	



008NC47-YC7U Nut for 3/16" OD tubing 5/16•24, blue



008CZ47 Omni-Lok™™ inverted cone for 3/16" OD tubing



0022445 Shorter thread PEEK™ nut for 1/8" OD tubing, 1/4•28

For 1/8", 2.0, 2.5 and 3.0mm OD Tubing

INVERTED COM	NES FOR 1/8", 2.0), 2.5 & 3.0MM OD TU	JBING
PART NUMBER	MATERIAL	TO FIT TUBE OD	QTY
008CZ19	ETFE	1.8 - 2.0mm	10pk
008CZ25	ETFE	2.5mm	10pk
008CZ30	ETFE	3.0mm	10pk
008CZ32	ETFE	1/8" (3.2mm)	10pk

NUTS FOR 1/8", 2.0, 2.5 & 3.0MM OD TUBING				
PART NUMBER	MATERIAL	COLOR	THREAD	QTY
008NC32-YC5U	PP	Blue	1/4•28	10pk
008NC32-YC5G	PP	Green	1/4•28	10pk
008NC32-YC5N	PP	Orange	1/4•28	10pk
008NC32-YC5R	PP	Red	1/4•28	10pk
008NC32-YC5Y	PP	Yellow	1/4•28	10pk
008NC32-YC6U	PP	Blue	M6	10pk
The 008NC32 nuts can be use	d with all tube sizes a	and inverted cones listed	d above	



008NC32-YC5R Nut for 1/8" OD tubing 1/4•28, red



008NC32-YC6U Nut for 1/8" OD tubing M6, blue



008CZ-32 Omni-Lok™ inverted cone for 1/8" OD tubing

TECHTIP:

For applications needing repeated connect / disconnect we recommend a permanently attached ferrule with stainless steel collar. Choose from our Omni-Lok™ Type P and S, or Gripper ranges.

OMNI-LOK™ FLANGED

Flanged (flared) tubing system for economical low-pressure connections

- Pressure rated up to 250psi (17 bar)
- For 1/16", 1/8" or 3/16" OD semi-rigid tubing, e.g. PTFE
- For flat-bottom ¼"-28 UNF ports
- Removeable and reusable

Omni-Lok™ flanged fittings require the end of hardwall tubing to be formed into a flange (flare). A flanging washer is placed between the flange and the fitting nut. When screwed into a flat-bottom, the flange is compressesed against the bottom of the port to produce a seal. Only the tubing is in the fluid path.

Omni-Lok™ flanged fitting nuts and washers permit maximum thread engagement between the port and the robust, glass-filled polypropylene fitting nuts. This ensures that the system stays sealed up to 250psi (17 bar) pressure, even in shallow PTFE ports.

PEEK™ flanging washers and nuts are designed to provide a simple, easy to use low-pressure connection for use in environments where harsh chemicals or higher temperature preclude the use of a polypropylene fitting.

Omni-Lok™ Flanged Fittings requires tubing to be flanged prior to use. We recommend our Flanging Kit for quick and easy heat-free flange forming - see page 11.

For 1/16" OD Tubing

FLANGING WA	ASHER FOR 1/16" OD TUBING	
PART NUMBER	DESCRIPTION	QTY
008FW16	PP flanging washer	10 pk

The 008FW16 flanging washer can be used with all nuts listed and either 1/4•28 or M6 flat-bottom ports.

NUTS FOR 1/16" O	DTUBING			
PART NUMBER	MATERIAL	COLOR	THREAD	QTY
008NF16-YC5B	PP	Black	1⁄4•28	10pk
008NF16-YC5U	PP	Blue	1/4•28	10pk
008NF16-YC5A	PP	Gray	1⁄4•28	10pk
008NF16-YC5G	PP	Green	1⁄4•28	10pk
008NF16-YC5N	PP	Orange	1⁄4•28	10pk
008NF16-YC5R	PP	Red	1⁄4•28	10pk
008NF16-YC5H	PP	White	1⁄4•28	10pk
008NF16-YC5Y	PP	Yellow	1⁄4•28	10pk
008NF16-YC6B	PP	Black	M6	10pk

For 1/16" OD Tubing

Flanged (flared) tubing

SPECIFICATIONS

FLANGING WASHER FOR 1/16" OD TUBING						
PART NUMBER DESCRIPTION QTY						
002123FN	PEEK™ flar	nging washe	r	10pk		
NUTS FOR 1/16" OD TUBING						
NUTS FOR 1/16"	OD TUBING					
NUTS FOR 1/16" PART NUMBER	OD TUBING MATERIAL	COLOR	THREAD	QTY		
110101011710	02.020	COLOR Natural	THREAD 1/4•28	<mark>qтү</mark> 10pk		



008NF16-YC5UNut for 1/16" OD tubing
1/4•28, blue



OO8NF16-YC6B Nut for 1/16" OD tubing M6, black



008FW16 Flanging washer for 1/16" OD tubing



PEEK™ nut for 1/16" OD tubing 1/4•28, natural



002124 Compact PEEK™ nut for 1/16" OD tubing, 1/4•28



Flanging washer

002123FNPEEK™ flanging washer for 1/16" OD tubing

For 1/8" OD Tubing

FLANGING WASHER FOR 1/8" OD TUBING PART NUMBER DESCRIPTION PP flanging washer 008FW32 10pk

The 008FW32 flanging washer can be used with all nuts listed and either 1/4-28 or M6 flat-bottom ports.

NUTS FOR 1/8" OD TUBING				
PART NUMBER	MATERIAL	COLOR	THREAD	QTY
008NF32-YC5B	PP	Black	1⁄4•28	10pk
008NF32-YC5U	PP	Blue	1⁄4•28	10pk
008NF32-YC5A	PP	Gray	1⁄4•28	10pk
008NF32-YC5G	PP	Green	1⁄4•28	10pk
008NF32-YC5N	PP	Orange	1⁄4•28	10pk
008NF32-YC5R	PP	Red	1/4•28	10pk
008NF32-YC5H	PP	White	1⁄4•28	10pk
008NF32-YC5Y	PP	Yellow	1⁄4•28	10pk
008NF32-YL5B	PP	Black	1⁄4•28	10pk
008NF32-YC6B	PP	Black	M6	10pk







008NF32-YC6B Nut for 1/8" OD tubing M6, black



008FW32 Flanging washer for 1/8" OD tubing



008NF32-YL5B Long nut for 1/8" OD tubing, 1/4•28, black

For 1/8" OD Tubing

FLANGING WA	ASHER FOR 1/8	"OD TUBIN	G		
PART NUMBER	DESCRIPTION	I		QTY	
002223FN	PEEK flang	jing washer		10pk	
NUTS FOR 1/8"	OD TUBING				
PART NUMBER	MATERIAL	COLOR	THREAD	QTY	
002223	PEEK	Natural	1⁄4•28	10pk	
002224	PEEK	Natural	1/4•28	10pk	



002223 PEEK™ nut for 1/8" OD tubing 1/4•28, natural



002224 Compact PEEK™ nut for 1/8" OD tubing, 1/4•28



002223FN PEEK™ flanging washer for 1/8" OD tubing

FLANGING KIT

Quick and easy production of perfect flanges every time

The flanging kit includes the flanging tool and tips for 0.5mm, 0.8mm and 1.3mm ID tubing. The flanging tool creates a perfect flange by mechanically forming the flange without heat stressing the tube material. The flanging tool is safe to use being non-electrical and not heated, especially important with organic solvents around. Full instructions are provided with the kit.

FLANGING KI	т	
PART NUMBER	DESCRIPTION	QTY
007003	Flanging kit	ea
007-201536	Flanging disc with 1.3mm polymer pin	ea
007-201537	Flanging disc with 1.3mm titanium pin	ea
007-201541	Flanging disc with 0.8mm polymer pin	ea
007-201554	Flanging disc with 0.8mm titanium pin	ea
007-202235	Flanging disc with 0.5mm SS pin	ea



TECHTIP:

Flanges can distort over time after prolonged use or repeated connect / disconnect. This can cause leaking and may increase dead volume. Omni-Lok™ Type P and Type S offer a robust alternative to flanging with simple assembly and leak-free seals for repeated use.

OMNIFIT® GRIPPER

Chemically inert flangeless fitting with permanently attached PTFE ferrule ideal for repeat connect/disconnect

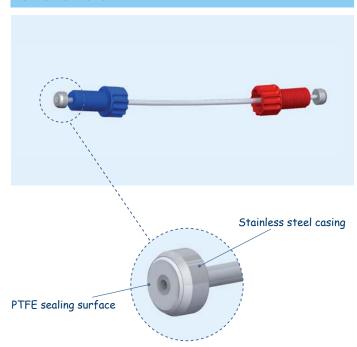
- Pressure rated up to 1000psi (69 bar)
- For 1/16" or 1/8" OD semi-rigid tubing
- For 1/4"-28 UNF or M6 flat-bottom ports

The Omnifit® Gripper fitting system uses a one-piece ferrule which fits permanently onto the outside of semi-rigid tubing. Ferrules have an inner PTFE sealing face ensuring that only PTFE is in the fluid path. The fitting nut can spin freely, eliminating tubing twist and allowing easy repeat connect/disconnect. The system is pressure rated up to 1000psi (69 bar).

A range of different colored polypropylene nuts are available to connect 1/16" or 1/8" OD tubing into 1/4"-28 UNF flat-bottom ports. Mixed color packs include all 10 colors for easy line identification. PEEK™ fitting nuts for use in higher temperatures are available in standard or compact head styles and with 1/4"-28 UNF or M6 threads.

Assembly of the Omnifit® Gripper onto tubing requires the use of simple tooling. See the assembly instructions on our website for full details.

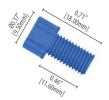
SPECIFICATIONS



For 1/16" OD Tubing

	GRIPPERS F	OR 1/16" OD TUBING		
	PART NUMBER	DESCRIPTION	QTY	
	002310	One piece PTFE ferrule for ¼•28 nuts	10pk	
•	002313	One piece PTFF ferrule for M6 fitting nuts	10pk	

NUTS FOR 1/2	16" OD TUBII	NG		
PART NUMBER	MATERIAL	COLOR	THREAD	QTY
002100	PP	Black	1/4•28	10pk
002101	PP	Brown	1⁄4•28	10pk
002102	PP	Red	1⁄4•28	10pk
002103	PP	Orange	1⁄4•28	10pk
002104	PP	Yellow	1⁄4•28	10pk
002105	PP	Green	1⁄4•28	10pk
002106	PP	Blue	1⁄4•28	10pk
002107	PP	Violet	1⁄4•28	10pk
002108	PP	Gray	1⁄4•28	10pk
002109	PP	White	1⁄4•28	10pk
002110	PP	Mixed	1⁄4•28	10pk
002130	ETFE	Natural	1⁄4•28	10pk
002119	PEEK™	Natural	1⁄4•28	ea
002122	PEEK™	Natural	1⁄4•28	ea
002135	PEEK™	Natural	M6	ea



002106Nut for 1/16" OD tubing 1/4•28, blue



002130 ETFE nut for 1/16" OD tubing 1/4•28, natural



002310Gripper ferrule for 1/16" OD tubing



002119Compact PEEK™ nut
for 1/16" 0D tubing, 1/4•28



002122 PEEK™ nut for 1/16" OD tubing, 1/4•28



002135PEEK™ nut
for ⅓6″ OD tubing, M6

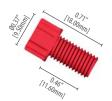


002313Gripper ferrule
for 1/16" OD tubing, M6

For %" OD Tubing

GRIPPERS FOR 1/8" OD TUBING PART NUMBER DESCRIPTION QTY 002312 One piece PTFE ferrule for 1/4•28 fitting nuts 10pk 002314 One piece PTFE ferrule for M6 fitting nuts

NUTS FOR 1/2	NUTS FOR 1/8" OD TUBING					
PART NUMBER	MATERIAL	COLOR	THREAD	QTY		
002200	PP	Black	1⁄4•28	10pk		
002201	PP	Brown	1⁄4•28	10pk		
002202	PP	Red	1/4•28	10pk		
002203	PP	Orange	1⁄4•28	10pk		
002204	PP	Yellow	1⁄4•28	10pk		
002205	PP	Green	1⁄4•28	10pk		
002206	PP	Blue	1⁄4•28	10pk		
002207	PP	Violet	1⁄4•28	10pk		
002208	PP	Gray	1⁄4•28	10pk		
002209	PP	White	1⁄4•28	10pk		
002210	PP	Mixed	1⁄4•28	10pk		
002230	ETFE	Natural	1⁄4•28	10pk		
002219	PEEK™	Natural	1⁄4•28	ea		
002222	PEEK™	Natural	1⁄4•28	ea		



002202 Nut for 1/8" OD tubing 1/4•28, red

002219

Compact PEEK™ nut

for 1/8" OD tubing, 1/4•28



002230 ETFE nut for 1/8" OD tubing 1/4•28, natural



002312 Gripper ferrule for %" OD tubing



002222 PEEK™ nut for 1/8" OD tubing, 1/4.28



This ETFE nut has a PTFE sealing face designed to seal unused ports. These blanking plugs can be used in any flat-bottom 1/4"-28 UNF port.

BLANKING PLUG FOR 1/4-28 FLAT-BOTTOM PORTS						
PART NUMBER	HEAD STYLE	MATERIAL	COLOR	THREAD	QTY	
002320	Standard	ETFE	Natural	1/4•28	2pk	



002320 ETFE plug for 1/4•28 ports

In-line connectors

Compact in-line connectors using the Omnifit™ Gripper are ideal when space is limited. A tubing line is secured into the connector using an Omnifit® Gripper ferrule. The connector then effectively becomes a 1/4"-28 UNF threaded female port that accepts a standard threaded fitting from a second fluid line.

ì						
	IN-LINE CONNECTORS					
	PART NUMBER	MATERIAL	COLOR	TUBE OD	THREAD	QTY
	002333	PEEK™	Natural	1/16"	¹/₄•28 F	ea
	002334	PEEK™	Natural	1/8"	¹/₄•28 F	ea



002333 PEEK™ in-line connector for 1/4•28 F threads, 1/16" OD tube



002334 PEEK™ in-line connector for 1/4•28 F threads, 1/8" OD tube



002235 PEEK™ nut for %" OD tubing, M6



002314 Gripper ferrule for %" OD tubing, M6

TECHTIP:

Some shallow ports, especially those found in solenoid valves, may lack sufficient threading to allow effective use of the Gripper fitting. Ports machined from PTFE can also be slippery and difficult to seal. We recommend Omni-Lok™ fittings for use in shallow and PTFE ports to ensure maximum security and a leak-free seal.

OMNIFIT® FITTING TOOL

Quick, convenient access to your Omnifit® fittings wherever they're located

- Fitting extension to reach nuts in remote locations
- Accessibility for closely packed fittings

The Omnifit® fitting tool gives instant accessibility to large and compact headed nuts, wherever they are located. The tool provides an extension to the fitting, enabling nuts to be hand-tightened remotely. The tool is also ideal for accessing individual nuts when close packing means they are difficult to handle.

Tools are available to fit standard head sizes, such as the Omnifit® Gripper and compact head Omni-Lok™ fittings.

FITTING TOOLS	S		
	TO SUIT FITTINGS:		
PART NUMBER	FITTING TYPE	THREAD	QTY
008FTL-5M	Gripper	1⁄4•28	ea
008FTC-56M	Omni-Lok™	1/4•28 or M6	ea
008FTC-7M	Omni-Lok™	5/16•24	ea



008FTL-5MFitting tool for standard head 1/4-28 fittings



008FTC-56MFitting tool for compact head 1/4.28 or M6 fittings



008FTC-7MFitting tool for compact head 5/6•24 fittings

OMNIFIT® TORQUE TOOL

Ensure your Omni-Lok fittings are connected at the correct torque every time for a reliable, leak-free seal

- · Accessibility for remote or closely packed fittings
- Torque control to ensure nuts are not over-tightened

The Omnifit® Torque Tool provides quick and easy connection of fittings to exactly the right torque required for a leak-free seal. Using a clutch-based mechanism, the tool ensures that connections are leak-free, but not over-tightened.

Tools are available to fit compact or standard head fittings and with torque ratings suitable for PTFE or non-PTFE ports.

TORQUETOOLS					
	TO SUIT FITTINGS AND PORTS:				
PART NUMBER	FITTING TYPE	THREAD	PORT MATERIAL	QTY	
008TTL-5MP	Gripper	1/4•28	PTFE	ea	
008TTL-5M	Gripper	1/4•28	Non-PTFE	ea	
008TTL-56MP	Omni-Lok™	1/4•28 or M6	PTFE	ea	
008TTL-56M	Omni-Lok™	1/4•28 or M6	Non-PTFE	ea	
008TTL-7MP	Omni-Lok™	5/16•24	PTFE	ea	
008TTL-7M	Omni-Lok™	5/16•24	Non-PTFE	ea	



NB. All drawings on this page are 1:2 scale

CLICK-N-SEAL™

Hand-tight fittings without the guesswork

- For Omni-Lok™ Type P & Type S ferrrules or inverted cones
- For 1/16" or 1/8" OD semi-rigid tubing
- Feel and hear when the fitting is properly installed

Click-N-Seal™ 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. The fitting can be unscrewed and reused.

Click-N-Seal™ Fittings for Omni-Lok™ Type P & Type S For 1/16" OD Tubing

FERRULES FOR 1/16" OD TUBING					
PART NUMBER	DESCRIPTION	1		QTY	
008FT16	Omni-Lok	™Type P fe	errule	10pk	
008FK16	Omni-Lok	™Type S fe	rrule, PEEK™	10pk	
008FZ16	Omni-Lok	™Type S fe	rrule, ETFE	10pk	
CLICK-N-SEAL™ FITTINGS FOR 1/16" OD TUBING					
PART NUMBER	MATERIAL	COLOR	THREAD	QTY	
008NF16-CS5R	PC	Red	1/4•28	ea	
008NF16-CS6R	PC	Red	M6	ea	

For 1/8" OD Tubing

FERRULES FOR	1/8" OD TUB	ING				
PART NUMBER	DESCRIPTION	N .		QTY		
008FT32	Omni-Lok	10pk				
008FK32	Omni-Lok	™ Type S feri	ule, PEEK™	10pk		
008FZ32	Omni-Lok	™Type S feri	ule, ETFE	10pk		
CLICK-N-SEAL™ FITTINGS FOR 1/8" OD TUBING						
PART NUMBER	MATERIAL	COLOR	THREAD	QTY		
008NF32-CS5R	PC	Red	1/4•28	ea		

Red



008NF32-CS6R

PC

008NF16-CS5R Click-N-Seal™ Nut for 1/16" OD tubing, 1/4.28, red



M6



008FZ16 Type S ferrule ETFE for 1/16" OD tubing

ea

008FT-32 Type P ferrule for 1/8" OD tubing



008FK32 Type S ferrule, PEEK™



008FZ32 Type S ferrule, ETFE

Click-N-Seal™ fittings for Omni-Lok™ Inverted Cones For 1/16" OD Tubing

INVERTED CONES FOR 1/16" OD TUBING					
PART NUMBER	DESCRIPTION			QTY	
008CZ16	ETFE inver			10pk	
CLICK-N-SEAL™ FITTINGS FOR 1/16" OD TUBING					
CLICK-N-SEAL™	FITTINGS FO	OR 1/16" OD T	UBING		
CLICK-N-SEAL™ PART NUMBER	FITTINGS FO	OR 1/16" OD T	UBING THREAD	QTY	
	MATERIAL			от ү еа	

For 1/8", 2.0, 2.5 & 3.0mm OD Tubing

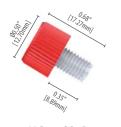
008NF32-CS5R Click-N-Seal™ Nut

for 1/8" OD tubing, 1/4•28, red

	TO FIT TUBE OD 1.8 - 2.0mm	qтү 10pk
		10pk
ETFE	2.5mm	10pk
ETFE	3.0mm	10pk
ETFE	1/8" (3.2mm)	10pk

CLICK-N-SEAL*	CLICK-N-SEAL™ FITTINGS FOR 1/8", 2.0, 2.5 & 3.0MM OD TUBING						
PART NUMBER	MATERIAL	COLOR	THREAD	QTY			
008NC32-CS5R	PC	Red	1⁄4•28	ea			
008NC32-CS6R	PC	Red	M6	ea			

The 008NC32 Click-N-Seal™ nuts can be used with all tube sizes and inverted cones listed above



008NC16-CS5R Click-N-Seal™ Nut for $\frac{1}{6}$ OD tubing, $\frac{1}{4}$ 28, red



008CZ-16 Omni-Lok™ inverted cone for 1/16" OD tubing



008CZ-32 Omni-Lok™ inverted cone for 1/8" OD tubing

FACTORY ASSEMBLED CUSTOM TUBING SETS

Save time and assembly costs and simplify your purchasing and inventory management by choosing pre-assembled tubing sets to your exact specifications

- Assembled with any of our chemically-resistant PTFE, PEEK™ or ETFE Omni-Lok™ ferrules, partnered with our robust Omni-Lok™ nuts
- Kits to plumb complete instruments can be supplied loose or mesh-wrapped in bundles

Omni-Lok™ pre-assembled tubing sets are designed to provide significant improvements over assembly of your own fittings. Our tubing sets are assembled to your specifications by our skilled production staff, ensuring a perfect, leak-free connection every time. You simply specify your choices of fitting nut, ferrule and tubing and whether you require fittings at one or both ends of the tube and we do the rest. With a wide range of ferrule types, fitting nut designs and colors, thread types, tubing sizes and materials, we can deliver an Omni-Lok™ tubing set to suit any application. The options are endless!

Options available:

Ferrule types

Our Omni-Lok™ ferrule options give you a choice of permanently attached ferrules, depending on your requirements for pressure rating and chemical compatibility.

Nuts

Our standard head fitting nut is suitable for most applications, or choose a compact or low profile head for restricted spaces, all in tough glass-filled polypropylene.

Thread types

Fitting nuts are available in $\frac{1}{4}$ "-28 UNF, M6 or $\frac{5}{6}$ "-24 UNF thread types, all designed for flat-bottom ports.

Color

Fitting nuts are available in a range of colors so you can color-code your tubing sets for easy line identification.

Tubing

We offer tubing in PTFE and FEP, with %, % or %6" outer diameters and a range of inner bores.

Multi-tube bundles

We can supply single tubes or sets of multiple tubes bundled and mesh-wrapped to provide a neatly packaged one-piece assembly. This eliminates unmanageable and untidy loose tubing within an instrument making manufacture and servicing easier. We will allocate a single part number to your assembly, simplifying ordering and inventory management.

Bundled tubing sets can be specified with any combination of colored fitting nuts, tubing and ferrule types, specific to your needs.

SPECIFICATIONS



Choose single tubing sets with fittings on one or both ends, or bundle a number of sets together to completely plumb an instrument

- Choose different colored fitting nuts for easy line identification
- Mix tubing sizes and ferrule types to custom configure your ideal tubing connections
- Mesh wrapping simplifies tubing management within an instrument

How to Order

With so many variations possible, we need to quote your tubing sets specifically for you. Please contact the factory to discuss your options with one of our engineers.

For North America, Canada and S.E. Asia contact our US office:

Call: (973) 263 3001 or email: sales.us@biochemfluidics.com

For Europe and all other locations contact our UK office:

Call: +44 (0) 1223 416 612 or email: sales.eu@biochemfluidics.com

TECH TIP:

Not quite what you need?

For other ferrule or nut types offered outside our Omni-Lok™ range, call the factory. We can custom assemble any of our fittings into a tubing set for your needs. For high temperature or aggressive environments, we can make up tubing sets using our PEEK™ nuts and Gripper fittings.

Chemically resistant softwall and semi-rigid tubing for demanding applications

- Semi-rigid PTFE tubing
- Softwall Silicone Select™ and Bio-Chem (C-Flex®) tubing

Semi-rigid PTFE

Almost totally inert, PTFE tubing can be used with virtually all chemicals, solvents and corrosive materials, even at elevated temperatures. It can be sterilised in-line by steam, chemical methods, or autoclaving. PTFE tubing is ideal for use with Gripper, Omni-Lok™ or inverted cone fittings. Available in 1/16″ or 1/8″ outer diameters and a range of inner bore sizes.

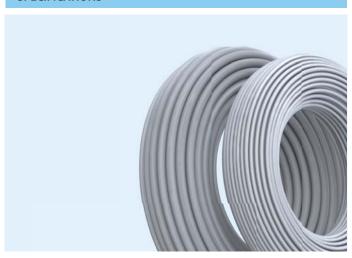
PTFE TUBING				
PART NUMBER	OD	ID	LENGTH	ОТУ
008T16-030-20	1.6mm (1/16")	0.3mm (.012")	20m	ea
008T16-030-200	1.6mm (1/16")	0.3mm (.012")	200m	ea
008T16-050-20	1.6mm (1/16")	0.5mm (.020")	20m	ea
008T16-050-200	1.6mm (1/16")	0.5mm (.020")	200m	ea
008T16-080-20	1.6mm (1/16")	0.8mm (.031")	20m	ea
008T16-080-200	1.6mm (1/16")	0.8mm (.031")	200m	ea
008T16-100-20	1.6mm (1/16")	1.0mm (.039")	20m	ea
008T16-100-200	1.6mm (1/16")	1.0mm (.039")	200m	ea
008T32-150-10	3.2mm (1/8")	1.5mm (.059")	10m	ea
008T32-150-100	3.2mm (1/8")	1.5mm (.059")	100m	ea
008T47-032-10	4.7mm (3/16")	3.2mm (1/8")	10m	ea
008T47-032-100	4.7mm (3/16")	3.2mm (1/8")	100m	ea

Softwall Silicone Select™

Silicone Select™ tubing is platinum cured silicone tubing designed for high-purity medical grade applications. It complies with USP XXII, Class VI, FDA and USDA standards and is FDA master file listed. This tubing has been specially developed to withstand the rigors of usage with pinch valves and is recommended for most pinch valve applications.

SILICONE SELECT™TUBING										
PART NUMBER	OD	ID	LENGTH	QTY						
10025-10S	0.093" (2.36mm)	0.010" (0.25mm)	50ft	ea						
10025-235	0.093" (2.36mm)	0.023" (0.58mm)	50ft	ea						
10025-50S	0.134" (3.40mm)	0.050" (1.27mm)	50ft	ea						
10025-01S	3/32" (2.38mm)	1/32" (0.79mm)	50ft	ea						
10025-02S	1/8" (3.17mm)	1/16" (1.59mm)	50ft	ea						
10025-03S	3/16" (4.76mm)	1/16" (1.59mm)	50ft	ea						
10025-04S	1/4" (6.35mm)	3/16" (4.76mm)	50ft	ea						
10025-05S	1/4" (6.35mm)	1/8" (3.17mm)	50ft	ea						
10025-06S	3/8" (9.52mm)	1/4" (6.35mm)	50ft	ea						
10025-07S	7/16" (11.1mm)	5/16" (7.94mm)	50ft	ea						

SPECIFICATIONS



Softwall Bio-Chem (C-Flex ®) Tubing

Bio-Chem (C-Flex®) tubing is designed for high-purity medical grade applications, complies with USP XXII, Class VI, FDA and USDA standards and is FDA master file listed. This tubing has been specially developed to withstand the rigors of usage with pinch valves and is recommended for pinch valve applications where gas permeability is an issue.

BIO-CHEM (C-FLEX®) TUBING									
PART NUMBER	OD	ID	LENGTH	QTY					
10025-23B	0.093" (2.36mm)	0.023" (0.58mm)	50ft	ea					
10025-01B	3/32" (2.38mm)	1/32" (0.79mm)	50ft	ea					
10025-02B	1/8" (3.17mm)	1/16" (1.59mm)	50ft	ea					
10025-03B	3/16" (4.76mm)	1/16" (1.59mm)	50ft	ea					
10025-05B	1/4" (6.35mm)	1/8" (3.17mm)	50ft	ea					
10025-06B	3/8" (9.52mm)	1/4" (6.35mm)	50ft	ea					
10025-07B	7/16" (11.1mm)	5/16" (7.94mm)	50ft	ea					

TUBING CUTTER						
PART NUMBER	DESCRIPTION	QTY				
003062	Tubing cutter	ea				
003063	Replacement blade	ea				

BARBED ADAPTORS

Thread to barb adaptors to connect softwall tubing to threaded ports or to semi-rigid tubing

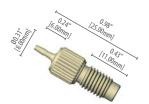
Omnifit® barbed adaptors are designed for use with soft-wall tubing. Machined from chemically resistant PEEK™ they have a superior barb with a crisp edge that retains soft wall tubing more securely than molded adaptors.

To connect softwall tubing into any female $\frac{1}{4}$ "-28 UNF port, use a male $\frac{1}{4}$ "-28 UNF to barb adaptor. The male thread screws into the port and tubing can then be pushed over the barb.

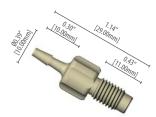
To connect softwall tubing to any male $\frac{1}{4}$ "-28 UNF thread, use a female $\frac{1}{4}$ "-28 UNF to barb adaptor. The barb is inserted into the softwall tubing and the female $\frac{1}{4}$ "-28 UNF port is available to receive any $\frac{1}{4}$ "-28 UNF threaded fitting.

A tight, leak-free connection can be ensured by matching the ID of your tubing to the barb size of the adaptor. If there is not an exact match, always choose the barb size that is just larger than your tubing ID.

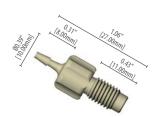
MALE 1/4"-28 UNF TO BARB ADAPTOR MATERIAL COLOR THREAD TUBE ID PEEK™ 001070 Natural 1/4•28 M 1.0 mm ea 001064 PEEK™ Natural 1/4•28 M 1.5 mm ea PEEK™ 1/4•28 M 001065 Natural 2.0 mm ea 001066 PEEK™ Natural 1/4•28 M 2.5 mm ea 001071 PEEK™ Natural 1/4•28 M 3.0 mm ea 001069 PEEK™ Natural 1/4•28 M 3.2 mm ea 001072 PEEK™ Natural 1/4•28 M 4.0 mm ea 001073 PEEK™ Natural 1/4•28 M 6.0 mm ea 001074 PEEK™ 1/4•28 M 8.0 mm Natural ea



001070 ¹/_{4•28} M to 1.0 mm barb



001065 ¹/_{4•28 M to 2.0 mm barb}

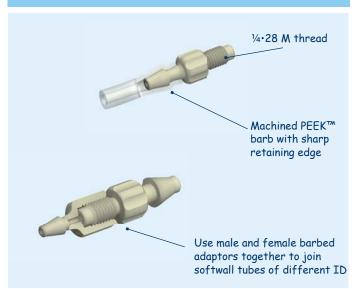


001064¹/4•28 M to 1.5 mm barb



001066 1/4•28 M to 2.5 mm barb

SPECIFICATIONS





001071 ¹/_{4•28} M to 3.0 mm barb



001069 ¹/_{4•28 M} to 3.2 mm barb



001072 ¹/_{4•}28 M to 4.0 mm barb



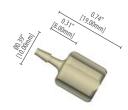
001073 ¹/_{4•}28 M to 6.0 mm barb



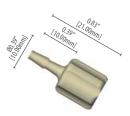
001074 ¹/_{4•28 M to 8.0 mm barb}

FEMALE 1/4"-28 UNF TO BARB ADAPTOR								
PART NUMBER	MATERIAL	COLOR	THREAD	TUBE ID	QTY			
001070F	PEEK™	Natural	¹/₄•28 F	1.0 mm	ea			
0001064F	PEEK™	Natural	¹/₄•28 F	1.5 mm	ea			
001065F	PEEK™	Natural	¹/4•28 F	2.0 mm	ea			
001066F	PEEK™	Natural	¹/₄•28 F	2.5 mm	ea			
001071F	PEEK™	Natural	¹/₄•28 F	3.0 mm	ea			
001069F	PEEK™	Natural	¹/₄•28 F	3.2 mm	ea			

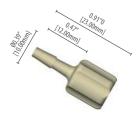
001070F 1/4•28 F to 1.0 mm barb



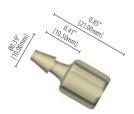
001064F 1/4•28 F to 1.5 mm barb



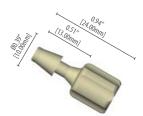
001065F 1/4•28 F to 2.0 mm barb



001066F 1/4•28 F to 2.5 mm barb



001071F 1/4•28 F to 3.0 mm barb



001069F 1/4•28 F to 3.2 mm barb

CLICK-N-SEAL™ BARBED ADAPTORS

Thread to barb connections that can't be overtightened!

- For 1/16, 1/8 or 5/32" ID softwall tubing
- For 1/4"-28 UNF or M6 threaded ports
- Re-useable and reliable

Click-N-Seal™ allows you to feel and hear when the fitting is properly installed, giving an audible click when the correct torque us reached This thread to barb adaptor version enables connection of softwall tubing to a threaded port.

CLICK-N-SEAL™ MALE ¼"-28 UNF TO BARB ADAPTOR									
MATERIAL	COLOR	THREAD	TUBE ID	QTY					
	Red	¹ /4•28 M	1/16" (1.57mm)	ea					
PC	Red	M6 M	1/16" (1.57mm)	ea					
PC	Red	¹ /4•28 M	1/8" (3.18mm)	ea					
	Red	M6 M	½" (3.18mm)	ea					
PC	Red	¹ /4•28 M	5/32" (3.96mm)	ea					
	Red	M6 M	5/32" (3.96mm)	ea					
		MATERIAL COLOR PC Red PC Red PC Red PC Red PC Red PC Red	MATERIAL COLOR THREAD PC Red 1/4•28 M PC Red M6 M PC Red 1/4•28 M PC Red M6 M PC Red 1/4•28 M	MATERIAL COLOR THREAD TUBE ID PC Red 1/4•28 M ½6"(1.57mm) PC Red M6 M ½6"(1.57mm) PC Red 1/4•28 M ½"(3.18mm) PC Red M6 M ½"(3.18mm) PC Red 1/4•28 M ½32"(3.96mm)					



008NB16-CS5R Click-N-Seal™ Thread to Barb for 1/16" ID tubing, 1/4•28, red

Note: Overall dimensions are the same for all part numbers listed. Only barb sizes vary.

Click-N-Seal[™] is a trademark of Diba Industries Inc.

TECH TIP:

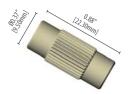
To ensure a tight, leak-free connection, match the ID of your tubing to the barb size of the adaptor. If there is not an exact match, always choose the barb size that is just larger than your tubing ID. Most tubing is flexible enough to be pushed over a barb that is larger than the tube ID.

THREADED ADAPTORS

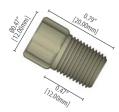
A useful range of "problem-solving" parts to convert thread sizes quickly and easily

Omnifit® threaded adaptors are a useful range of 'problem solving' parts that enable you to convert thread sizes quickly and easily, accepting a ¼"-28 UNF male fitting at one end and a range of male and female thread types at the other.

TWO-WAY ADAPTORS, PEEK™								
PART NUMBER	MATERIAL	COLOR	THREAD 1	THREAD 2	QTY			
002306	PEEK™	Natural	¹/4•28 F	10-32 F	ea			
002352	PEEK™	Natural	¹/₄•28 F	M6 M	ea			
002354	PEEK™	Natural	¹/4•28 F	1/8" NPT M	ea			
002356	PEEK™	Natural	¹/4•28 F	3/8" NPT M	ea			
002357	PEEK™	Natural	¹/₄•28 F	¹/8" BSPT M	ea			



002306 PEEK[™] adaptor for $^{1}/_{4}$ •28 M and 10-32 M threads



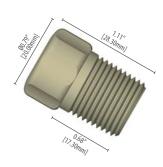
002354 PEEK™ adaptor for 1/4•28 F to 1/8 NPT M threads



002357 PEEK™ coupling for 1/4•28 F to 8/8 BSPT M threads



002352 PEEK™ adaptor for 1/4•28 F to M6 M threads

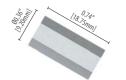


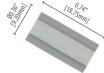
002356 PEEK™ coupling for 1/4•28 F to 3/8 NPT M threads

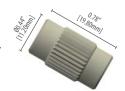
COUPLINGS & CONNECTORS

Couplings to connect two or three fitting lines using the same thread type

TWO-WAY COUPLINGS							
PART NUMBER	MATERIAL	COLOR	THREAD 1	THREAD 2	QTY		
002301	PP	White	¹/4•28 F	¹/4•28 F	ea		
002302	ETFE	Natural	¹/4•28 F	¹/4•28 F	ea		
002307	PEEK™	Natural		¹/₄•28 F	ea		







002301 PP coupling for 1/4•28 M threads

002302 ETFE coupling for 1/4•28 M threads

002307 PEEK™ coupling for 1/4•28 M threads

002334

PEEK™ in-line

connector for 1/4•28 F

threads, 1/8" OD tube

Mountable block connectors

The 3-way and 4-way block connectors have an internal bore of 1.5mm. They are mountable and when used with Omnifit Gripper fittings or Omni-Lok Type P or S fittings, provide an inert fluid path with zero dead volume.

THREE-WAY & FOUR-WAY BLOCK CONNECTORS									
PART NUMBER	MATERIAL	COLOR	CONFIGU	RATION	THREADS	QTY			
001057	PEEK™	Natural	3-way		¹/4•28 F	ea			
001058	PEEK™	Natural	4-way		¹/₄•28 F	ea			
0.50" [12.70mm]		1.06" [27.00mm]							
0			0		001057 3-way PEEK™ block for 1/4•28 F threads				

In-line connectors ideal for where space is limited

A tubing line is connected into the connector using an Omnifit® Gripper ferrule. The connector then effectively becomes a 1/4"-28 UNF threaded female port that accepts a standard threaded fitting from a second fluid line.

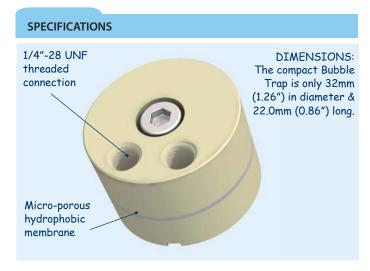
IN-LINE CONNECTORS								
PART NUMBER	MATERIAL	COLOR	TUBE OD	THREAD	QTY			
002333	PEEK™	Natural	¹ / ₁₆ "	¹/₄•28 F	ea			
002334	PEEK™	Natural	1/8"	¹/₄•28 F	ea			



Effective, in-line removal of bubbles

- Pressure rated up to 30 psi
- Effective de-bubbling of aqueous solutions

The Omnifit® Bubble Trap effectively removes bubbles from aqueous solutions. The unit is quickly and easily connected in-line using the $\frac{1}{4}$ "-28 UNF female threaded ports and fittings such as Omni-Lok™. Spare membranes are available.



Operation

When a fluid containing bubbles flows through the unit, the bubbles are forced through a micro-porous, hydrophobic membrane whilst aqueous fluid is retained within the Trap. Because the membrane function depends on its hydrophobicity, the Trap is only suitable for use with aqueous systems and NOT with organic solvents.

Flow

Maximum flow rate is dependent upon the amount of bubbles in the liquid. Typical operating range is 0.5 - 2.0ml/min, but up to 6ml/min can be achieved if few bubbles are present in the liquid.

Pressure

The unit is pressure rated up to 30psi. De-bubbling is effected under positive pressure. It is not possible to pull liquid through the unit under vacuum as this would introduce bubbles into the fluid. If the system back-pressure is insufficient for the unit to function, a length of tube can be fitted on the outlet side to create more back-pressure.

Maintenance

The lifetime of the membranes strongly depends on the kind of fluid being used. For pure water, the lifetime may be several months or years. If buffer solutions are used, the life will be reduced and it is advisable to flush the unit with de-ionized/distilled water after use to prevent salt crystals forming.

INLINE BUI	BBLE TRAP								
PART NUMBER	FILTER MATERIAL	POROSITY	CONNECTION 1	CONNECTION 2	QTY				
006BT	PTFE	25 μm	¹/4•28 M	¹/₄•28 F	ea				
REPLACEM	REPLACEMENT FILTER ELEMENTS								
PART NUMBER	FILTER MATERIAL	POROSITY			QTY				
006BTF	PTFE	25 μm			ea				

IN-LINE FILTERS

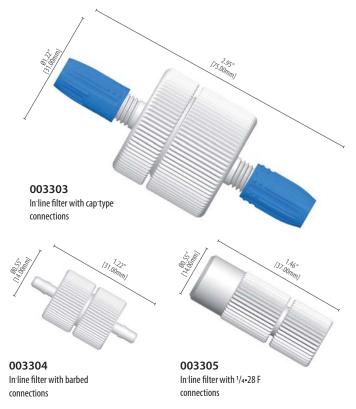
Inert microporous filters remove particulates and protect solenoid valves and sensitive instruments

- Inert flow path with all PTFE wetted parts
- Simple filter replacement
- Fluid distribution pattern for optimum filtration
- · Easy installation in-line

These all-PTFE in-line filter units offer a highly inert flow path suitable to applications involving aggressive and high-purity fluids. The filters ensure that particulates are removed from the medium, protecting downstream instrumentation from particulate damage. PTFE solenoid valves for example, are inherently susceptible to damage from particulates.

Each filter unit comprises an all PTFE housing which holds a removable 100µm PTFE filter. The filter element can be easily and economically replaced, making the filters an excellent investment to ensure the long-term functioning of your solenoid valves and analytical instruments. A distribution pattern machined into the filter housing ensures that liquid is spread across the entire filter surface, giving maximum usage of the filter area. This distribution pattern is present on both sides of the filter housing, meaning that the filters are bi-directional with either port able to act as the inlet. However, once installed, flow direction should not be reversed, as contamination may result.

INLINE FILTERS									
PART NUMBER	FILTER MATERIAL	POROSITY	CONNECTION 1	CONNECTION 2	QTY				
003303	PTFE	100μm	Omnifit® cap	Omnifit® cap	ea				
003304	PTFE	25µm	Barb	Barb	ea				
003305	PTFE	25µm	¹/₄•28 F	¹/4•28 F	ea				



BIO-CHEK™ IN-LINE CHECK VALVES

Inert, low-pressure check valves with ¼"-28 UNF threads for quick, easy connection in-line

- Operating pressure up to 50psi
- Backpressure up to 100psi
- Cracking pressures ≤ 1psi
- · Inert flow path with no metal parts

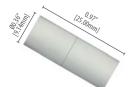
Bio-ChekTM self-sealing in-line check valves offer an inert flow path, no metal components and zero maintenance, ideal for high-purity, low-pressure applications. Unlike spring-actuated check valves that can restrict or impede the flow path causing content (product) damage, the Bio-Chek TM in-line check valve has a smooth flow path to minimize shear and turbulence.

The Bio-Chek ™ valve provides a flow rate equivalent to a 0.030″ orifice, a cracking pressure of 1psi or less and can check against back flow pressure up to 100psi. A choice of housing and check element materials and several flow configurations are available, all offering standard ¼″-28 UNF connections.

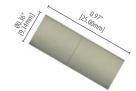
DUAL FEMALE BIO-CHEK™ CHECK VALVE PART CRACKING INTERNAL CHECK HOUSING OUTLET INLET NUMBER ELEMENT PRESSURE VOLUME CF-4C **PPS FFKM** 1/4•28 F 1/4•28 F 0.3psi 49µl ea CF-4E **PPS EPDM** 1/4•28 F 1/4•28 F 1.0psi 49µl ea CF-4V PPS **FKM** 1/4•28 F 1/4•28 F 0.8psi 49µl ea CF-5C PEEK™ **FFKM** 1/4•28 F 49µl 1/4•28 F 0.3psi ea CF-5E PEEK™ **EPDM** 1/4•28 F 1/4•28 F 1.0psi 49µl ea 49µl CF-5V PEEK™ FKM 1/4•28 F 1/4•28 F 0.8psi ea

INLET	INLET TYPE BIO-CHEK™ CHECK VALVE									
CI-4C	PPS	FFKM	1⁄4•28 F	1⁄4•28 M	0.3psi	60µl	ea			
CI-4E	PPS	EPDM	1⁄4•28 F	1⁄4•28 M	1.0psi	60µl	ea			
CI-4V	PPS	FKM	1⁄4•28 F	1⁄4•28 M	0.8psi	60µl	ea			
CI-5C	PEEK™	FFKM	1⁄4•28 F	1⁄4•28 M	0.3psi	60µl	ea			
CI-5E	PEEK™	EPDM	1⁄4•28 F	1⁄4•28 M	1.0psi	60µl	ea			
CI-5V	PEEK™	FKM	1⁄4•28 F	1⁄4•28 M	0.8psi	60µl	ea			

OUTLET TYPE BIO-CHEK™ CHECK VALVE							
CO-4C	PPS	FFKM	1⁄4•28 M	1⁄4•28 F	0.3psi	68µl	ea
CO-4E	PPS	EPDM	1⁄4•28 M	1⁄4•28 F	1.0psi	68µl	ea
CO-4V	PPS	FKM	1⁄4•28 M	1⁄4•28 F	0.8psi	68µl	ea
CO-5C	PEEK™	FFKM	1⁄4•28 M	1⁄4•28 F	0.3psi	68µl	ea
CO-5E	PEEK™	EPDM	1⁄4•28 M	1⁄4•28 F	1.0psi	68µl	ea
CO-5V	PEEK™	FKM	1⁄4•28 M	1⁄4•28 F	0.8psi	68µl	ea



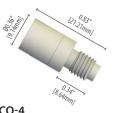
CF-4 BIO-CHEK™ dual female check valve, PPS



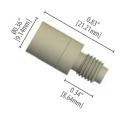
CF-5BIO-CHEK™ dual female check valve, PEEK™



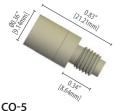
CI-4 BIO-CHEK™ inlet type check valve, PPS



BIO-CHEK™ outlet type check valve, PPS



CI-5
BIO-CHEK™ inlet type check valve, PEEK™



BIO-CHEK™ outlet type check valve, PEEK™

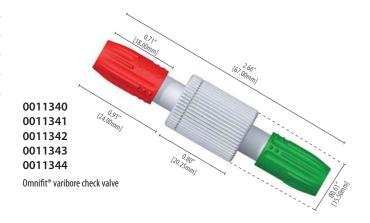
OMNIFIT® VARIBORE CHECK VALVES

Low pressure check valves with versatile "cap" connections for tubing sizes up to 4mm OD

- All PTFE body
- · For use with rigid and semi-rigid tubing
- Cracking pressures up to 10psi

Omnifit® in-line check valves offer a versatile connection method for many tubing sizes and materials, including stainless steel. Integral FKM O-rings, or PTFE cones (available separately) can be used to make a simple compression fitting direct to the OD of the tubing. Alternatively, the internal thread of the colored cap is a standard 1/4″-28 UNF female, enabling connection using any standard 1/4″-28 UNF threaded fitting, such as Omni-Lok™ or Grippers.

OMNIFIT® VARIBORE CHECK VALVE CHECK CRACKING PART NUMBER BODY QTY **ELEMENT PRESSURE** 0011340 **PTFE** FKM 0.1psi 2 **PTFE** FKM 0011341 0.5psi 2 **PTFE** FKM 2 0011342 1.5psi **PTFE** FKM 2 0011343 3.0psi PTFE FKM 2 0011344 10.0psi



THE BIO-CHEM FLUIDICS BRAND FAMILY

Bio-Chem Fluidics is dedicated to providing instrument manufacturers and laboratories with the industry's best choice of inert, miniature fluid handling components.

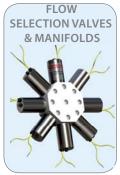
Under our Bio-Chem Valve™ and Omnifit® brands we offer a complete fluid system solution for a wide range of industries including analytical chemistry, clinical diagnostics and medical device manufacturers as well as a world-class labware portfolio for the scientific community.



INERT SOLENOID VALVES, ELECTRIC ROTARY VALVES AND PUMPS















INERT FLUID HANDLING COMPONENTS AND LABWARE













CUSTOMIZED SOLUTIONS

We understand that many applications require customized solutions. Our design and prototyping expertise enables us to offer simple modifications of standard products as well as completely customized designs.

We look forward to working with you to meet your design engineering objectives!