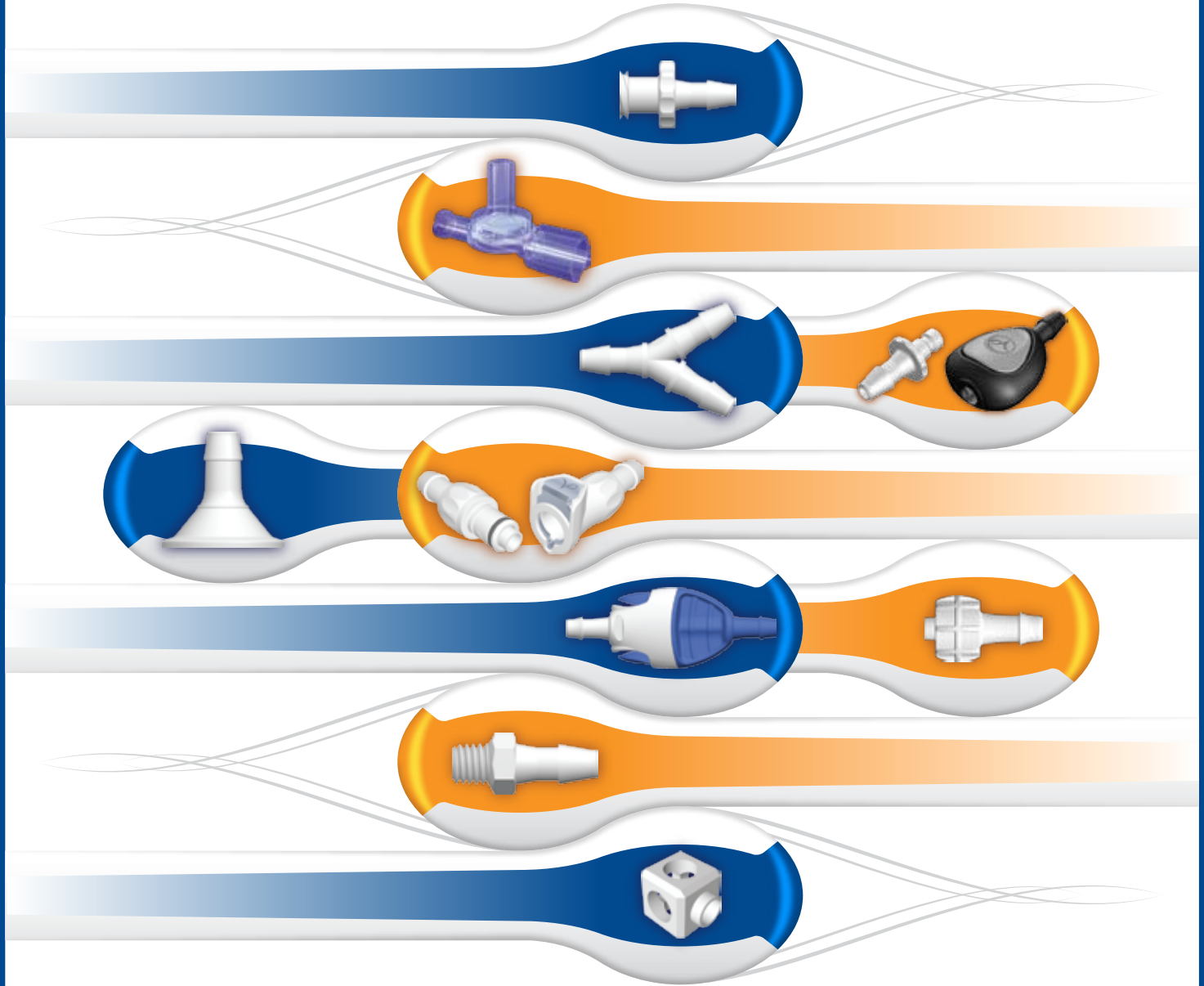




VALUE PLASTICS®, INC.



QUALITY DELIVERY PROVEN PRECISION INNOVATION TRUSTED LEADERSHIP DIRECT SALES CUSTOM PARTS SERVICE
 PERFECT FITTINGS SANITARY FITTINGS LUERS TUBE-TO-TUBE BLOOD PRESSURE THREADED TAPERED SEAL
 DELIVERY PROVEN PRECISION INNOVATION TRUSTED LEADERSHIP DIRECT SALES CUSTOM PARTS SERVICE
 BUILD-A-PART QUICK CONNECT FITTINGS SANITARY FITTINGS LUERSTUBE-TO-TUBE FITTINGS
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 BUILD-A-PART QUICK CONNECT FITTINGS SANITARY FITTINGS LUERSTUBE-TO-TUBE FITTINGS

**SPECIALISTS
 IN FLUID
 CONNECTIONS**

Welcome to Value Plastics!

Thank you for your interest in our products. If you're a current customer, we thank you for your past support and look forward to exceeding your expectations in the future. If you're seeing us for the first time, we welcome the opportunity to earn your trust.

What we do:

Value Plastics designs and manufactures a proprietary line of plastic connectors for low pressure fluid management applications. Products available from stock include over 3,100 different style and material combinations with tubing IDs ranging from 1/16" to 1". We also offer custom component manufacturing, tubing, select medical OEM components and our TUBESETTER® fitting inserters to facilitate device assembly.

Where we come from:

We're located in Fort Collins, Colorado, at the base of the Rocky Mountains, 55 miles north of Denver. Our facility is state-of-the-art and self-contained from in-house product design through tooling, manufacturing, assembly and packaging. Customer support, sales and marketing resources support the world from this single facility.

Our quality commitment to you:

We are dedicated to exceeding your expectations. We operate a quality system registered under the guidelines of ISO 9001:2000 and maintain full traceability for all our manufactured products. We welcome our customers to conduct an on-site supplier audit with the knowledge that our systems have satisfied the most demanding requirements of medical device manufacturers worldwide.

Your assurance of VP quality:

How can you be sure that you're getting a genuine Value Plastics® fitting? Look for our logo. Molded into every component we manufacture, our logo is your assurance you are producing the highest quality items. By relying on our superior tooling and craftsmanship, you can be assured that you will have the best OEM tubing components in your products.

To protect our designs and our customers, it is important to be aware of the patents and trademarks that apply to our products. Look for the Value Plastics logo (VP) to ensure you do not mistakenly use a poor quality counterfeit of a Value Plastics® fitting, thereby jeopardizing the integrity and quality of your product. Many attributes of our components are covered by patent, including but not limited to, barb, grips, function and other design features.

Quality Management System

At Value Plastics, quality is designed in from the outset; it's not an add-on at the end of the process. Our Quality Management System is registered under the auspices of ISO 9001:2000 and passes the most stringent evaluations possible – our customers' audits. We anticipate your needs and modify our systems to exceed your expectations. Our quality and consistency help you save money through your ability to implement dock-to-stock programs.

Design, Engineering and R&D

Value Plastics' staff of product development professionals uses the most modern equipment to design the best fluid management products available anywhere. Whether your need is for new products or custom solutions, our focus on healthcare OEM means we understand your needs and don't need to be coached to your industry requirements. Designs incorporating human factors, finite element analysis, DFMA, rapid prototyping and concurrent engineering are just some of the tools used to bring you the components you require, when you want them.

Manufacturing Consistency

Our all-electric injection molding presses are chosen for shot-to-shot consistency and outfitted with the most up-to-date process monitoring software available. Each operator is responsible for product quality at the press and has every tool at their disposal. All molding, secondary operations and packaging take place in a controlled environment to assure component readiness for your production floor.

Clean Room Manufacturing

All Value Plastics' products are now manufactured and packaged in an environment that meets the requirements of ISO 14644-1 Level 8 (formerly identified as Class 100,000).



Value Plastics supplies the world with precision molded components, which are designed, manufactured and distributed from our facility in Fort Collins, Colorado.

What's new at Value Plastics?

Value Plastics is on the move! This last year has found Value Plastics innovating and growing at a great pace! In this section you can find quick references to our new tubing components and most notable business additions!

Animal-free Polypropylene Resin

Value Plastics has added a number of standard and made-to-order products using polypropylene resin that contains no animal derivatives. Products using this resin are found in the luer, tube-to-tube and large tube-to-tube sections. Products manufactured with animal-free polypropylene are identified with the -6005 material suffix.



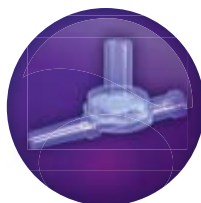
XQC Series Quick Connect Fittings

XQC Series quick connect fittings (quick disconnect couplings) add convenience to your repetitive connect — disconnect requirements. These 24 products, available in acetal and polypropylene, may be found beginning on page 8.



DCV Series Double Check Valves

DCV Series double check valves are now available. These products are designed to enable clean transfer of a fluid from a storage container to a point of use. The 7 SKUs are manufactured from materials that comply with USP Class VI and are gamma stable. These products may be found beginning on page 10.



SF Series Sanitary Fittings

SF Series sanitary fittings (sanitary couplers) mate Value Plastics' 600 Series barb to a sanitary end flange. Two flange sizes, "Mini" (3/4") and "Maxi" (1-1/2") join 5 different tube IDs and are available in both animal-free polypropylene and Kynar® PVDF resins. Find these 20 products beginning on page 14.



BPLF Series Disposable Blood Pressure Cuff Fittings

BPLF Series cuff fittings are designed for use with quarter-turn male cable connectors and available in sizes to fit 1/8" (3.2 mm) and 5/32" (4.0 mm) ID cuff tubing. The 2 products are shown on page 28.



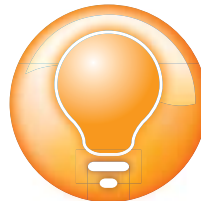
TSC Series Tapered-Seal Connectors

TSC Series connectors offer the convenience and reliability of a cone seal in a form that doesn't interconnect with conventional luer fittings. The 7 new products are listed on page 30.



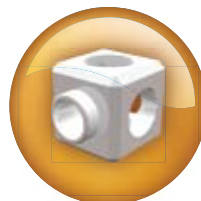
Value Plastics Design Center

Find examples in this section of currently-available made-to-order specialized solutions beginning on page 32.



Build-a-Part™ Bondable Components

The Bondable components found on pp. 64-67 are now known as Build-a-Part components. Overcome the limits of injection molding tooling design and build the exact component you desire, in the exact layout that works best for you!



Formation of Asian Subsidiary

As of January 18, 2008, Value Plastics announces the establishment of Value Plastics (Asia Pacific) Co., Ltd. This company will be the focus of Value Plastics' increasing efforts to develop the rapidly-growing markets for its products in Asia.



Bird Precision Orifices and Filters www.birdprecision.com

Bird Precision's standard ruby orifice and filter inserts will fit a huge variety of Value Plastic Fittings.



Bird Precision Ruby Orifices are scientifically designed to control CD (coefficient of discharge) values to insure repeatable flow. 150 unique orifice sizes are available from .0004" thru .081" ID sizes. Stainless steel wire mesh filtration inserts are available in standard micron rated filtration values of 5, 25, 43 and 140 micron average ratings.

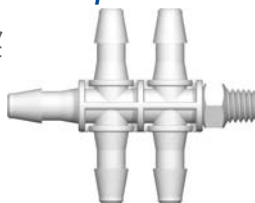
An example is shown in the picture of blue Value Plastics part# XL210-1 (10-32 special tapered thread, elbow, for 1/16" ID flexible tubing.)

This special fitting contains dual inlet and outlet 5 micron stainless mesh filters. The .0040/.0042" ruby orifice is securely sandwiched between the filters. This fitting insures total protection of the orifice while also providing extremely repeatable flow control.

Bird orifices fit most Value Plastics tube to tube, threaded and luer type fittings.

Industrial Specialties - www.industrialspec.com

As their name, SPECIALTIES, indicates, in addition to offering a wide range of Value Plastics fittings, they perform a unique development role. They offer a unique approach to helping their customers with their flow control challenges.



If what they have in their catalog isn't exactly what you need, they'll try to design something that is. That's the essence of SPECIALTIES: customized designs for specific customers.

So, if you don't see it, ask for it. They're often willing to work at smaller volume levels for special products.

The Lee Company - www.theleeco.com

Check valves and orifices from The Lee Company are ideal for critical applications where close pressure and flow tolerances are required. Made entirely of stainless steel, Lee insert valves and restrictors are 100% performance tested and are available standard in USP Class VI gamma-stable polypropylene fittings. Shown is Value Plastics part no. LT787 with Lee Co. features that enable the fitting to precisely control pressure input and, through the top leg, relieve excess pressure.



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Our Single Barb Concept

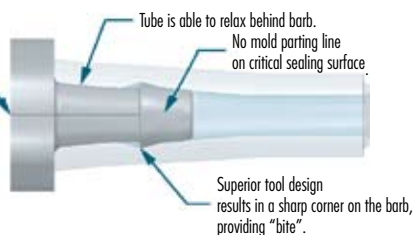
Many designers are not aware of the benefits of using a single barb versus a multi-barb fitting, but the barb design greatly affects the security of your tube connection.

Because of the shape of a barb, it is impossible to injection mold any but the first barb without a parting line. The parting line creates a potential leak path that becomes more pronounced as the tooling wears, increasing the likelihood of failure.

Two other problems exist with multiple barb fittings. First, it is impossible to fabricate tooling that creates a perfectly sharp edge on each barb of a molded multi-barb fitting — a feature critical to the performance of the connection.

SINGLE BARB MOLD PART LINE:

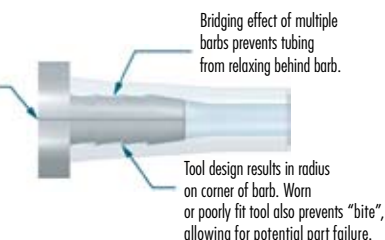
Placed where it can't affect critical sealing surfaces.



Second, multiple barb fittings do not allow the tubing to relax behind the first barb. Because the tubing "bridges" from barb to barb it is not allowed an uninterrupted interface with the fitting. This results in compromised pressure and tensile capacities. Value Plastics® single barb design avoids these shortcomings. Our expert tooling design assures the sharpest edge possible allowing the barb to "bite" into the tubing. Then, the cylindrical surface behind the barb allows the tubing to relax against the fitting. The result is a connection with excellent tensile and pressure performance.

MULTI BARB MOLD PART LINE:

Potential leak path on critical sealing surfaces.



The **CLASSIC SERIES** is characterized by a longer barb that extends the sealing surface of the fitting. Tubing is expanded from 42% to 69% above its nominal ID.



The **200 SERIES** offers outstanding performance characteristics when used with flexible tubing. Tubing is expanded by 50% above its nominal ID, permitting high-pressure capabilities.



The **300 SERIES** offers outstanding performance characteristics when used with flexible tubing. Tubing is expanded by 35% above its nominal ID, permitting high-pressure capabilities in the larger tube sizes.



The **400 Series** provides easy assembly while maintaining excellent pressure and tensile capabilities. Originally created for semi-rigid tubing, this series is preferred for applications where tensile/pressure properties are not highly critical, or when ease of assembly is desired. The 400 Series expands the tubing 25% above its nominal ID.



The **500 SERIES** profile is composed of blended radii, giving it the distinct look. Each barb is designed to accommodate a range of tube sizes and tube types. Consideration should be given to flow restriction, pressure capability, and the force required for assembly of the tube.



The **600 SERIES** barbs are designed for use with silicone, C-Flex® and PVC tubing sizes commonly used in biopharm and other applications. Tubing is expanded from 18% to 34% above its nominal ID to maintain a low profile and ease of assembly, and the straight barb stem facilitates use of recommended cable tie retainers or hose clamps.



The **700 SERIES** barb is designed for use with Value Plastics' XQC Series quick connect fittings. This unique single barb is available in sizes to fit the 1/4" (6.4 mm) and 3/8" (9.5 mm) ID tubing sizes and materials commonly used in disposable and reusable medical equipment. Reinforced PVC, unreinforced PVC and polyurethane tubing materials work well with this barb style.



The **900 SERIES** offers outstanding performance characteristics when used with flexible tubing. Tubing is expanded from 8% to 17% above its nominal ID. This barb provides high flow efficiency and excellent tensile strength. A hose clamp is recommended for this series.

The data presented here is for reference only. It was compiled to provide our customers with a means of comparing the characteristics of components at the time of publication. The particular conditions of your use and application of our products are beyond our control. Thus, it is imperative that you test our products in your specific application to determine their suitability. All information is provided without implied or expressed warranty or guarantee by Value Plastics® or other manufacturers. None of the information provided constitutes a recommendation or endorsement of any kind by Value Plastics®.

QUICK CONNECTS



**FEMALE VALVED STRAIGHT
PG-10**



**FEMALE OPEN FLOW STRAIGHT
PG-10**



**FEMALE VALVED
PANEL MOUNT PG-10**



**FEMALE OPEN FLOW
PANEL MOUNT PG-10**



**MALE VALVED STRAIGHT
PG-10**



**MALE OPEN FLOW STRAIGHT
PG-10**



**MALE VALVED
PANEL MOUNT PG-11**



**MALE OPEN FLOW
PANEL MOUNT PG-11**



**MALE VALVED ELBOW
PG-11**



**MALE OPEN FLOW ELBOW
PG-11**

THE **XQC** SERIES

QUICK CONNECT FITTINGS

The XQC Series quick connect fittings with integral shutoff valves, bring performance, convenience and utility to your tubing applications. Offered in two tubing sizes to fit 1/4" (6.4 mm) and 3/8" (9.5 mm) ID flexible tubing, XQC series products may be used with PVC, polyurethane, silicone and other types of flexible tubing. 700 Series single barbs provide superior pulloff resistance when compared to three-barb styles. For versatility, durable XQC Series couplings interchange with other plastic and metal button-type couplings. Bring performance and service to your tubing applications by specifying XQC Series quick connects.

Available integral shutoff valves

- No need for external clamps
- Convenience

Button

- Ease of use while making connections

Audible connection signal

- Provides feedback signaling a secure connection

Acetyl copolymer resin

- Physical strength
- Chemical resistance

Stainless steel valve springs

- Resistant to corrosion

Ergonomic grip

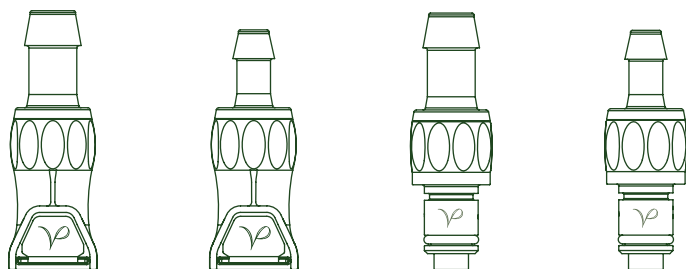
- Easier to use

Buna-N o-ring elastomer seals

- Chemical resistance
- Long cycle life
- Repeatable leak-free connection

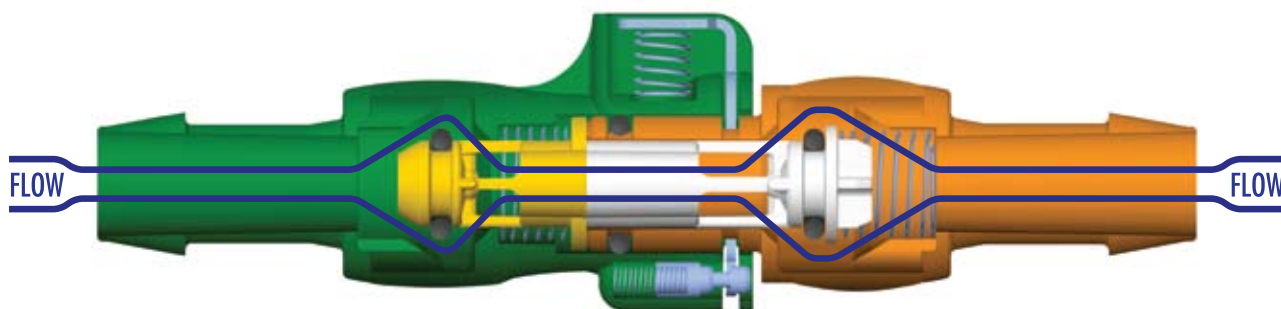
Polypropylene & EPDM Options

- Superior chemical resistance



THE XQC SERIES

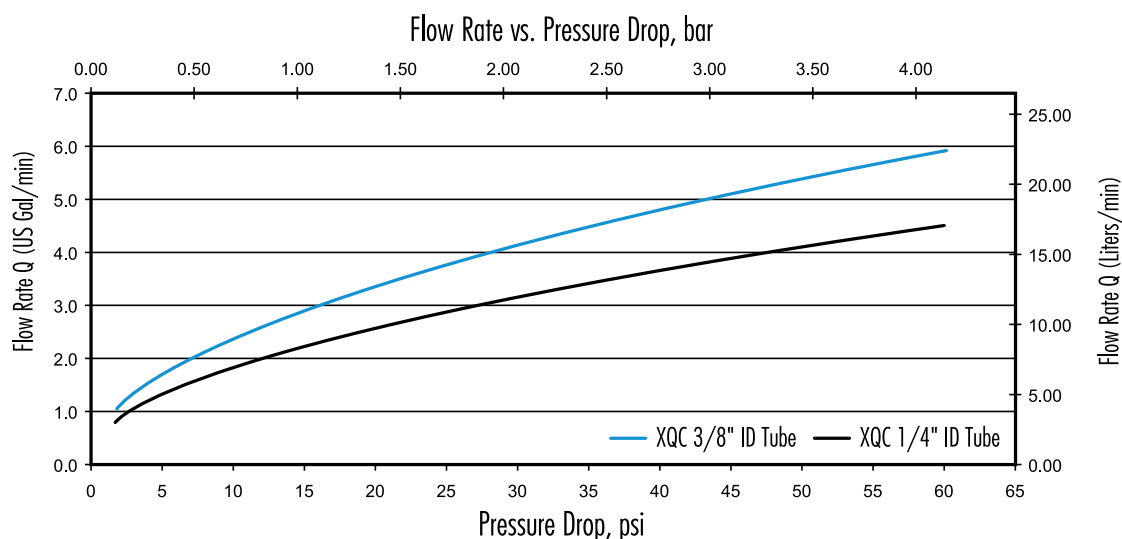
QUICK CONNECT FITTINGS



XQC Series Materials and Design:

Plastic resin	Acetal Copolymer	White Polypropylene
O-ring	Buna-N	EPDM
Valve spring	316 stainless steel	
Button and pin springs	Stainless steel	
Button	Stainless steel	
Barb style	700 Series single barb	

Max. working pressure	120 psi, 8.28 bar
Leak resistance	< .007 psi / 0.05 kPa / sec.
Max. C_v	0.58 - 1/4" (6.4 mm), both sides shutoff 0.76 - 3/8" (9.5 mm), both sides shutoff
Maximum temperature resistance	180° F, (82.2° C) to -40° F, (-40° C)



The data presented here is for reference only. It was compiled primarily from the resin manufacturers' data to provide our customers with a means of comparing the characteristics of components at the time of publication. The particular conditions of your use and application of our products are beyond our control. Thus, it is imperative that you test our products in your specific application to determine their suitability. All information is provided without implied or expressed warranty or guarantee by Value Plastics® or other manufacturers. None of the information provided constitutes a recommendation or endorsement of any kind by Value Plastics®.

XQC SERIES:
Female Open Flow Straight

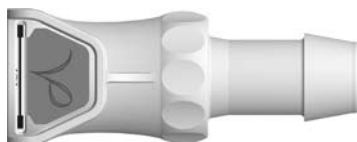
-1006 Natural Acetal

XQCF755 (-1006)

XQC Series Female Open Flow Connector, 700 Series Barb, 1/4" (6.4 mm) ID Tubing

**XQCF770 (-1006)**

XQC Series Female Open Flow Connector, 700 Series Barb, 3/8" (9.5 mm) ID Tubing

**XQC SERIES:***Female Valved Straight***XQCVF755 (-1006-B -6006-EP)**

XQC Series Female Valved Connector, 700 Series Barb, 1/4" (6.4 mm) ID Tubing

**XQCVF770 (-1006-B -6006-EP)**

XQC Series Female Valved Connector, 700 Series Barb, 3/8" (9.5 mm) ID Tubing

**XQC SERIES:***Female Open Flow Panel Mount***XQCBF755 (-1006)**

XQC Series Female Open Flow Panel Mount Connector, 700 Series Barb, 1/4" (6.4 mm) ID Tubing

**XQCBF770 (-1006)**

XQC Series Female Open Flow Panel Mount Connector, 700 Series Barb, 3/8" (9.5 mm) ID Tubing

**XQC SERIES:**
*Female Valved Panel Mount***Material Suffix Key**

-1006-B Natural Acetal, Buna-N O-Ring

-6006-EP White Polypropylene, EPDM O-Ring

XQCVBF755 (-1006-B)

XQC Series Female Valved Panel Mount Connector, 700 Series Barb, 1/4" (6.4 mm) ID Tubing

**XQCVBF770 (-1006-B)**

XQC Series Female Valved Panel Mount Connector, 700 Series Barb, 3/8" (9.6 mm) ID Tubing

**XQC SERIES:***Male Open Flow Straight***XQCM755 (-1006-B)**

XQC Series Male Open Flow Connector, 700 Series Barb, 1/4" (6.4 mm) ID Tubing

**XQCM770 (-1006-B)**

XQC Series Male Open Flow Connector, 700 Series Barb, 3/8" (9.5 mm) ID Tubing

**XQC SERIES:***Male Valved Straight***XQCMV755 (-1006-B -6006-EP)**

XQC Series Male Valved Connector, 700 Series Barb, 1/4" (6.4 mm) ID Tubing

**XQCMV770 (-1006-B -6006-EP)**

XQC Series Male Valved Connector, 700 Series Barb, 3/8" (9.5 mm) ID Tubing



XQC SERIES:
Male Open Flow Panel Mount
XQC SERIES:
Male Open Flow Elbow
Material Suffix Key

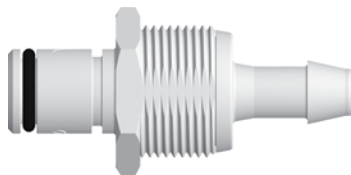
-1006 Natural Acetal

-1006-B Natural Acetal, Buna-N O-Ring

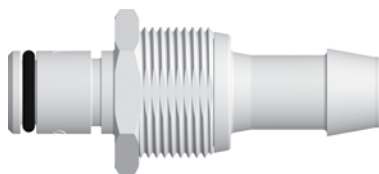
-6006-EP White Polypropylene, EPDM O-Ring

XQCBM755 (-1006-B)

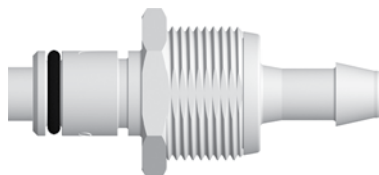
XQC Series Male Open Flow Panel Mount Connector, 700 Series Barb, 1/4" (6.4 mm) ID Tubing


XQCBM770 (-1006-B)

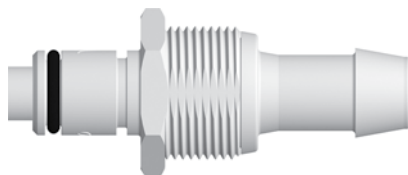
XQC Series Male Open Flow Panel Mount Connector, 700 Series Barb, 3/8" (9.5 mm) ID Tubing


XQC SERIES:
Male Valved Panel Mount
XQCVBM755 (-1006-B)

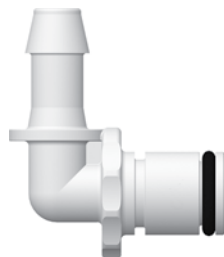
XQC Series Male Valved Panel Mount Connector, 700 Series Barb, 1/4" (6.4 mm) ID Tubing


XQCVBM770 (-1006-B)

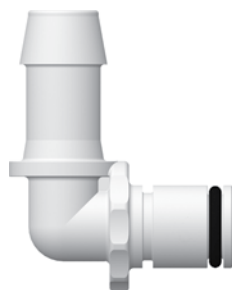
XQC Series Male Valved Panel Mount Connector, 700 Series Barb, 3/8" (9.5 mm) ID Tubing


XQCLM755 (-1006-B)

XQC Series Male Open Flow Elbow Connector, 700 Series Barb, 1/4" (6.4 mm) ID Tubing


XQCLM770 (-1006-B)

XQC Series Male Open Flow Elbow Connector, 700 Series Barb, 3/8" (9.5 mm) ID Tubing


XQC SERIES:
Male Valved Elbow
XQCVLM755 (-1006-B)

XQC Series Elbow Male Valved Connector, 700 Series Barbs, 1/4" (6.4 mm) ID Tubing


XQCVLM770 (-1006-B)

XQC Series Elbow Male Valved Connector, 700 Series Barbs, 3/8" (9.5 mm) ID Tubing



our online ordering for component parts, now
 available 24 hours a day, 7 days a week, with no
 \$ minimums! You can find every catalog part at:

www.valueplastics.com

(Online ordering is not available in countries served by our regional partners)

LINE DRAWINGS

Value Plastics provides line drawings for all its fittings. For
 further information, visit our website at www.valueplastics.com.

DOUBLE CHECK VALVES



THE **DCV** SERIES

DOUBLE CHECK VALVES

The fluid supply vessel is connected to the valve supply port (chimney) using a luer connection or tubing. The fluid is withdrawn from the supply vessel by a syringe or other device connected to the aspiration port. When the syringe is compressed the fluid is then transferred, through the exit port, to the use site without adulterating the fluid.

The system provides high flow. Two inlet cracking pressure ranges, two supply port options and two exit port options are available. All luer tapers comply with the requirements of ISO Standard 594-1. DCV Series double check valves are manufactured entirely from materials that comply with USP Class VI criteria and are compatible with ethylene oxide, gamma and e-beam sterilization procedures.

Typical applications include wound irrigation, interventional cardiology and radiology procedures, admixture and pharmacy operations as well as others.

Bi-Directional Double Check Valve

No need for disconnections to fill syringe

Satisfies USP Class VI criteria

Low cracking pressures

Clean fluid transfer from supply to site

High flow rate

DCV101 (-001)

Double Check Valve, Tubing Pocket Chimney Port, 1-7 PSI Cracking Pressure

DCV114 (-001)

Double Check Valve, Tubing Pocket Chimney Port, 2-5 PSI Cracking Pressure



DCV115 (-001)

Double Check Valve, Tubing Pocket Chimney Port, Rotating Luer Lock Exit Port, 2-5 PSI Cracking Pressure

DCV116 (-001)

Double Check Valve, Tubing Pocket Chimney Port, Rotating Luer Lock Exit Port, 1-7 PSI Cracking Pressure



DCV118 (-001)

Double Check Valve, Female Luer Chimney Port, 2-5 PSI Cracking Pressure

DCV119 (-001)

Double Check Valve, Female Luer Chimney Port, 1-7 PSI Cracking Pressure



DCV125 (-001)

Double Check Valve, Female Luer Chimney Port, Rotating Luer Lock Exit Port, 2-5 PSI Cracking Pressure

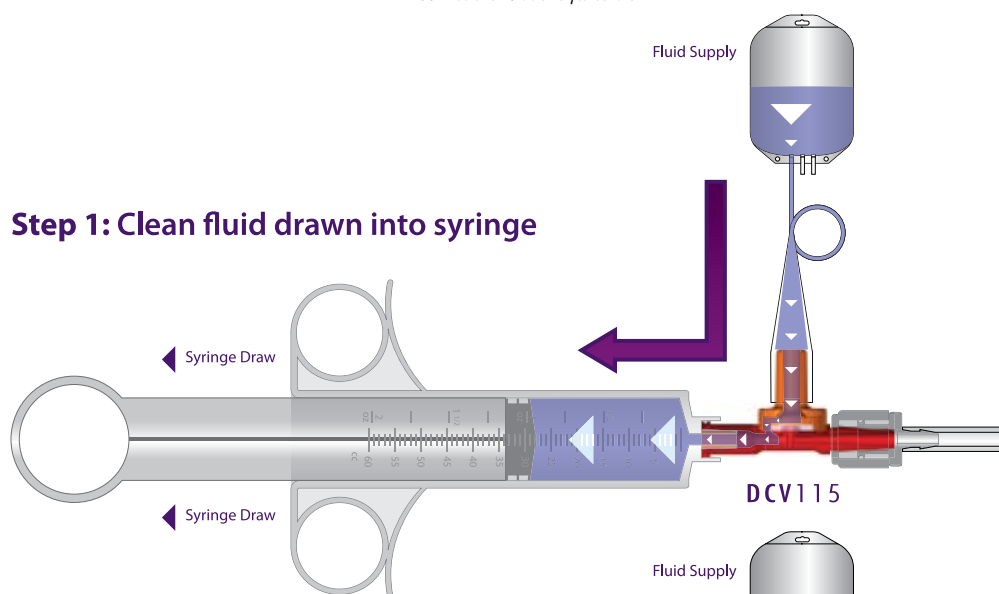


Material Suffix Key

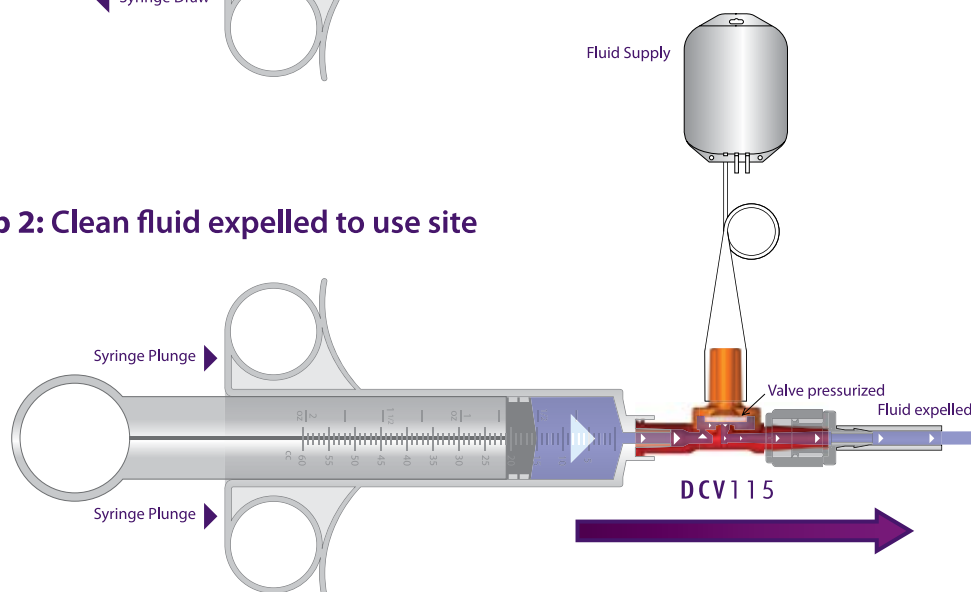
-001 Radiation Stable Polycarbonate

DOUBLE
CHECK VALVES

Step 1: Clean fluid drawn into syringe



Step 2: Clean fluid expelled to use site

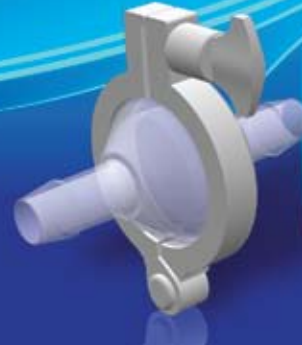


DCV Series Specifications

	DCV101-001	DCV114-001	DCV115-001	DCV116-001	DCV118-001	DCV119-001	DCV125-001
Chimney Port (Fluid Supply)	Tubing Pocket	Tubing Pocket	Tubing Pocket	Tubing Pocket	Female Slip Luer	Female Slip Luer	Female Slip Luer
Aspiration Port (Syringe)	Threaded Female Luer	Threaded Female Luer	Threaded Female Luer	Threaded Female Luer	Threaded Female Luer	Threaded Female Luer	Threaded Female Luer
Fluid Exit Port	Male Luer Taper	Male Luer Taper	Male Luer with Rotating Lock Nut	Male Luer with Rotating Lock Nut	Male Luer Taper	Male Luer Taper	Male Luer with Rotating Lock Nut
Inlet Cracking Pressure	1-7 PSIG Water	2-5 PSIG Water	2-5 PSIG Water	1-7 PSIG Water	2-5 PSIG Water	1-7 PSIG Water	2-5 PSIG Water
Aspiration Port to Exit Port Cracking Pressure	<10 PSIG Water	<10 PSIG Water	<10 PSIG Water	<10 PSIG Water	<10 PSIG Water	<10 PSIG Water	<10 PSIG Water
Resin	Rad. Stable Polycarb.	Rad. Stable Polycarb.	Rad. Stable Polycarb.	Rad. Stable Polycarb.	Rad. Stable Polycarb.	Rad. Stable Polycarb.	Rad. Stable Polycarb.
Rotating Lock Nut			Polycarbonate	Polycarbonate			Polycarbonate
Diaphragm	Biomed. Grade Silicone	Biomed. Grade Silicone	Biomed. Grade Silicone	Biomed. Grade Silicone	Biomed. Grade Silicone	Biomed. Grade Silicone	Biomed. Grade Silicone

The data presented here is for reference only. It was compiled primarily from the resin manufacturers' data to provide our customers with a means of comparing the characteristics of components at the time of publication. The particular conditions of your use and application of our products are beyond our control. Thus, it is imperative that you test our products in your specific application to determine their suitability. All information is provided without implied or expressed warranty or guarantee by Value Plastics® or other manufacturers. None of the information provided constitutes a recommendation or endorsement of any kind by Value Plastics®.

SANITARY FITTINGS



THE SF SERIES

SANITARY FITTINGS

SF Series sanitary fittings from Value Plastics are designed for use in single-use container fluid transport systems, manifolds and wherever sensitive fluids must be transferred. They are offered in two flange sizes, 1-1/2" ("Maxi") to comply with the ISO 2852 specification, and the popular 3/4" ("Mini") size commonly used with small tubing sizes. SF Series sanitary fittings incorporate 600 Series barbs for easy use with silicone, C-Flex® or Tygon® tubing.

Made from animal-free polypropylene

- No BSE documentation required
- Good chemical resistance
- Gamma stable to 50 kGy - Convenience

Radiused flow surfaces

- Smooth uninterrupted flow

No sharp edges in flow path

- Easy to clean

"Mini" and "Maxi" (ISO 2852) sizes

- Easy to retrofit to current components
- Works with commercially available clamps
- Industry accepted standard

Interior surface controlled to 15 micron Ra

- No particulate build-up

600 Series single barb

- Grips tubing securely
- Easy to install

Compatible with Barblock® tubing retainers

SFMN655 (-6005 - J1A)*

Sanitary Fitting, Mini Flange to 600 Series Barb, 1/4" (6.4 mm) Tubing ID



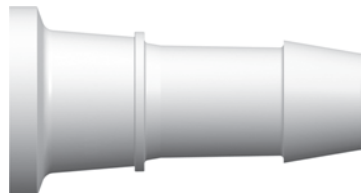
SFMN670 (-6005 - J1A)

Sanitary Fitting, Mini Flange to 600 Series Barb, 3/8" (9.5 mm) Tubing ID



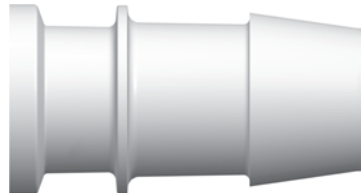
SFMN680 (-6005 - J1A)

Sanitary Fitting, Mini Flange to 600 Series Barb, 1/2" (12.7 mm) Tubing ID



SFMN6100 (-6005 - J1A)*

Sanitary Fitting, Mini Flange to 600 Series Barb, 3/4" (19.0 mm) Tubing ID



GMN450 (-PX)

Molded Gasket for "Mini" Flange



SFMNC (-6005)*

Sanitary Fitting Mini Cap



*Available in late 2008

Material Suffix Key

-6005 Animal-Free Natural Polypropylene

-J1A Natural PVDF

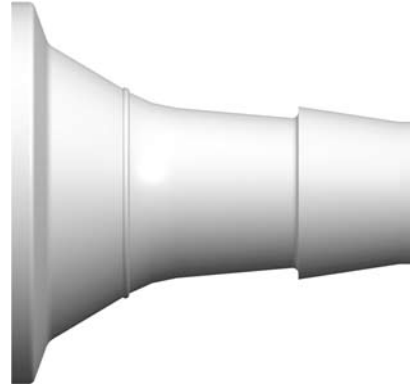
-PX Platinum-Cured Silicon

SFMX655 (-6005 - J1A)*

Sanitary Fitting, Maxi Flange to 600 Series Barb, 1/4" (6.4 mm) Tubing ID

**SFMX6100 (-6005 - J1A)***

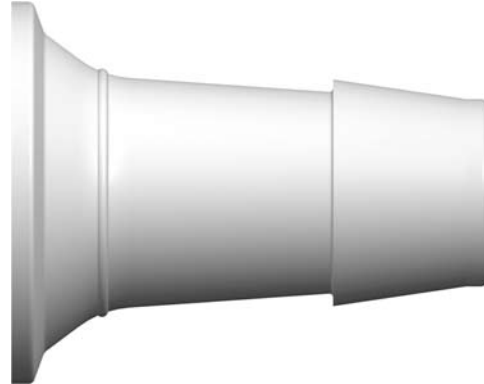
Sanitary Fitting, Mini Flange to 600 Series Barb, 3/4" (19.0 mm) Tubing ID

**SFMX670 (-6005 - J1A)**

Sanitary Fitting, Maxi Flange to 600 Series Barb, 3/8" (9.5 mm) Tubing ID

**SFMX6110 (-6005 - J1A)***

Sanitary Fitting, Mini Flange to 600 Series Barb, 1.0" (25.4 mm) Tubing ID

**SFMX680 (-6005 - J1A)**

Sanitary Fitting, Maxi Flange to 600 Series Barb, 1/2" (12.7 mm) Tubing ID

**GMX455 (-PX)**

Molded Gasket for "Maxi" Flange SFMX Series Fittings

**SFMXC (-6005)***

Sanitary Fitting Maxi Cap



*Available in late 2008



MALE LUERS PG-17



FEMALE LUERS PG-20



ADAPTERS PG-21



COUPLERS PG-21



TEES PG-22



ELBOWS PG-22



PLUGS & CAPS PG-23



LUER TO THREAD PG-23



PANEL MOUNTS & ACCESSORIES PG-25



CUSTOM LUER FITTINGS PG-34



OUR LUER TAPERS

Value Plastics® luer tapers are made to the ISO 594-1 standard, and may be connected to other luers meeting ISO standards. Please test your application to verify the performance of the interconnection.

Value Plastics' luer fittings come in over 100 configurations and several materials for the device designer, joining tubing from 1/16" (1.6 mm) to 1/4" (6.4 mm).

Published ISO Design Standard

- Well understood worldwide
- Often assures interconnections without need to retrofit

Rotating Lock Permits Tube Positioning Prior To Tightening

- Minimizes twisting and kinking of tubing

Tapered Cone Seal

- Reliable
- Inexpensive
- Uncomplicated

Available In Many Materials

- Facilitates optimal material selection for your application

Inexpensive

- Facilitates single-use

Easy To Understand

- Ease of use in field

Many Configuration Options

- Adaptable to wide range of applications

Security Options (Fixed Lock, Rotating Lock, No Lock)

- Tailorable to your specific application

Material Suffix Key

-1 White Nylon	-10 Acetal	-2 Black Nylon	-3 Red Nylon
-4 Green Nylon	-5 Blue Nylon	-06 Orange Nylon	-07 Yellow Nylon
-6 Natural Polypropylene	-6005 Animal-Free Polypropylene	-8003 Natural ABS	-81 Lace White ABS
-9 Clear Polycarbonate	-9002 Radiation Stable Polycarbonate	-J1A Natural Kynar PVDF	

MTLL004 (-1 -2 -3 -4 -5 -06 -07 -6 -6005 -9 -9002)

Male Luer Integral Lock Ring to 500 Series Barb, 1/16" (1.6 mm) ID Tubing


MTLL230 (-1 -2 -3 -4 -5 -06 -07 -6 -6005 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 200 Series Barb, 1/8" (3.2 mm) ID Tubing


MTLL210 (-1 -2 -3 -4 -5 -06 -07 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 200 Series Barb, 1/16" (1.6 mm) ID Tubing


MTLL430 (-1 -3 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 400 Series Barb, 1/8" (3.2 mm) ID Tubing


MTLL410 (-1 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 400 Series Barb, 1/16" (1.6 mm) ID Tubing


MTLL025 (-1 -2 -3 -4 -5 -06 -6005 -07 -6 -9 -9002)

Male Luer Integral Lock Ring to 500 Series Barb, 5/32" (4.0 mm) ID Tubing


MTLL007 (-1 -2 -3 -4 -5 -06 -07 -6 -9 -9002)

Male Luer Integral Lock Ring to 500 Series Barb, 3/32" (2.4 mm) ID Tubing


MTLL240 (-1 -2 -3 -4 -5 -06 -07 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 200 Series Barb, 5/32" (4.0 mm) ID Tubing


MTLL220 (-1 -2 -3 -4 -5 -06 -07 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 200 Series Barb, 3/32" (2.4 mm) ID Tubing


MTLL445 (-1 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 400 Series Barb, .170" (4.3 mm) ID Tubing


MTLL420 (-1 -6 -6005 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 400 Series Barb, 3/32" (2.4 mm) ID Tubing


MTLL035 (-1 -2 -3 -4 -5 -06 -07 -6 -6005 -9 -9002)

Male Luer Integral Lock Ring to 500 Series Barb, 3/16" (4.8 mm) ID Tubing


MTLL013 (-1 -2 -3 -4 -5 -06 -07 -6 -6005 -9 -9002)

Male Luer Integral Lock Ring to 500 Series Barb, 1/8" (3.2 mm) ID Tubing


MTLL250 (-1 -2 -3 -4 -5 -06 -07 -6 -8003 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 200 Series Barb, 3/16" (4.8 mm) ID Tubing



Material Suffix Key

-1 White Nylon
 -4 Green Nylon
 -6 Natural Polypropylene
 -9 Clear Polycarbonate
 -10 Acetal
 -5 Blue Nylon
 -6005 Animal-Free Polypropylene
 -9002 Radiation Stable Polycarbonate

-2 Black Nylon
 -06 Orange Nylon
 -8003 Natural ABS
 -J1A Natural Kynar PVDF
 -3 Red Nylon
 -07 Yellow Nylon
 -81 Lace White ABS

MTLL450 (-1 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 400 Series Barb, 3/16" (4.8 mm) ID Tubing


MTLL055 (-1 -2 -3 -4 -06 -07 -6 -6005 -9 -9002)

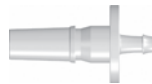
Male Luer Integral Lock Ring to 500 Series Barb, 1/4" (6.4 mm) ID Tubing


MTLL360 (-1 -2 -6 -6005 -9 -9002 -J1A)

Male Luer Integral Lock Ring to 300 Series Barb, 1/4" (6.4 mm) ID Tubing


MLRL004 (-1 -6 -9)

Male Luer to 500 Series Barb, 1/16" (1.6 mm) ID Tubing (May be used with separate rotating lock ring; FSLLR)


MLRL007 (-1 -6 -9)

Male Luer to 500 Series Barb, 3/32" (2.4 mm) ID Tubing (May be used with separate rotating lock ring; FSLLR)


MLRL013 (-1 -6 -9)

Male Luer to 500 Series Barb, 1/8" (3.2 mm) ID Tubing (May be used with separate rotating lock ring; FSLLR)


MLRL025 (-1 -6 -9)

Male Luer to 500 Series Barb, 5/32" (4.0 mm) ID Tubing (May be used with separate rotating lock ring; FSLLR)


MLRL035 (-1 -6 -9 -9002)

Male Luer to 500 Series Barb, 3/16" (4.8 mm) ID Tubing (May be used with separate rotating lock ring; FSLLR)


MLRL055 (-1 -6 -9)

Male Luer to 500 Series Barb, 1/4" (6.4 mm) ID Tubing (May be used with separate rotating lock ring; FSLLR)


FSLLR (-1 -2 -3 -4 -5 -06 -07 -6 -9 -9002)

Finger Snap Luer Lock Ring


IT'S A LOCK WITH VALUE PLASTICS!

Our MLRL and MLSL Series of fittings can be used both as a slip luer or as a locking luer with the addition of our FSLLR luer lock ring, which allows color coding without flow path contact. Our MLSL/FSLLR combination results in a stationary lock ring. Use a combination of MLRL and FSLLR to create a color coded rotating lock ring.

The MLRL allows FSLLR/lock ring rotation



The MLSL has flanges which lock into the FSLLR, preventing rotation



Used together, you can create a color coded male luer with lock ring



MALE LUER:

Slip, or for use with Stationary Lock Ring

MALE LUER:

Slip

Material Suffix Key

-1 White Nylon
-4 Green Nylon
-6 Natural Polypropylene
-9 Clear Polycarbonate

-10 Acetal
-5 Blue Nylon
-6005 Animal-Free Polypropylene
-9002 Radiation Stable Polycarbonate

-2 Black Nylon
-06 Orange Nylon
-8003 Natural ABS
-J1A Natural Kynar PVDF

-3 Red Nylon
-07 Yellow Nylon
-81 Lace White ABS

MSLS004 (-1 -6 -9)

Male Luer to 500 Series Barb, 1/16" (1.6 mm) ID Tubing (May be used with separate stationary lock ring; FSLLR)

**MSLS007 (-1 -6 -9)**

Male Luer to 500 Series Barb, 3/32" (2.4 mm) ID Tubing (May be used with separate stationary lock ring; FSLLR)

**MSLS013 (-1 -6 -9)**

Male Luer to 500 Series Barb, 1/8" (3.2 mm) ID Tubing (May be used with separate stationary lock ring; FSLLR)

**MSLS025 (-1 -6 -9)**

Male Luer to 500 Series Barb, 5/32" (4.0 mm) ID Tubing (May be used with separate stationary lock ring; FSLLR)

**MSLS035 (-1 -6 -9)**

Male Luer to 500 Series Barb, 3/16" (4.8 mm) ID Tubing (May be used with separate stationary lock ring; FSLLR)

**MSLS055 (-1 -6 -9)**

Male Luer to 500 Series Barb, 1/4" (6.4 mm) ID Tubing (May be used with separate stationary lock ring; FSLLR)

**MTLS210 (-1 -6 -9 -J1A)**

Male Luer Slip to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**MSL004 (-1 -6 -9 -9002)**

Male Luer Slip to 500 Series Barb, 1/16" (1.6 mm) ID Tubing

**MTLS220 (-1 -3 -5 -6 -81 -9 -J1A)**

Male Luer Slip to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**MSL007 (-1 -6 -9 -9002)**

Male Luer Slip to 500 Series Barb, 3/32" (2.4 mm) ID Tubing

**MTLS230 (-1 -3 -5 -6 -81 -9 -9002 -J1A)**

Male Luer Slip to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**MSL013 (-1 -6 -9 -9002)**

Male Luer Slip to 500 Series Barb, 1/8" (3.2 mm) ID Tubing

**MTLS240 (-1 -2 -5 -6 -81 -9 -J1A)**

Male Luer Slip to 200 Series Barb, 5/32" (4.0 mm) ID Tubing

**MSL025 (-1 -6 -9 -9002)**

Male Luer Slip to 200 Series Barb, 5/32" (4.0 mm) ID Tubing

**MSL035 (-1 -6 -9 -9002 -J1A)**

Male Luer Slip to 500 Series Barb, 3/16" (4.8 mm) ID Tubing

**MSL055 (-1 -6 -9 -9002)**

Male Luer Slip to 500 Series Barb, 1/4" (6.4 mm) ID Tubing



LUER



our online ordering for component parts, now
available 24 hours a day, 7 days a week, with no
\$ minimums! You can find every catalog part at:

www.valueplastics.com

(Online ordering is not available in countries served by our regional partners)

Material Suffix Key

-1 White Nylon	-10 Acetal	-2 Black Nylon	-3 Red Nylon
-4 Green Nylon	-5 Blue Nylon	-06 Orange Nylon	-07 Yellow Nylon
-6 Natural Polypropylene	-6005 Animal-Free Polypropylene	-8003 Natural ABS	-81 Lace White ABS
-9 Clear Polycarbonate	-9002 Radiation Stable Polycarbonate	-J1A Natural Kynar PVDF	

FTLL004 (-1 -2 -3 -4 -5 -06 -07 -6 -9 -9002 -J1A)

Female Luer Thread Style to 500 Series Barb, 1/16" (1.6 mm) ID Tubing


FTLL210 (-1 -2 -3 -5 -6 -9 -9002 -J1A)

Female Luer Thread Style to 200 Series Barb, 1/16" (1.6 mm) ID Tubing


FTLL410 (-1 -6 -9 -9002 -J1A)

Female Luer Thread Style to 400 Series Barb, 1/16" (1.6 mm) ID Tubing


FTLL007 (-1 -2 -3 -4 -5 -06 -07 -6 -9 -9002)

Female Luer Thread Style to 500 Series Barb, 3/32" (2.4 mm) ID Tubing


FTLL220 (-1 -3 -5 -6 -9 -9002 -J1A)

Female Luer Thread Style to 200 Series Barb, 3/32" (2.4 mm) ID Tubing


FTLL420 (-1 -6 -6005 -9 -9002 -J1A)

Female Luer Thread Style to 400 Series Barb, 3/32" (2.4 mm) ID Tubing


FTLL013 (-1 -2 -3 -4 -5 -06 -07 -6 -9 -9002)

Female Luer Thread Style to 500 Series Barb, 1/8" (3.2 mm) ID Tubing


FTLL230 (-1 -2 -3 -5 -6 -6005 -9 -9002 -J1A)

Female Luer Thread Style to 200 Series Barb, 1/8" (3.2 mm) ID Tubing


FTLL430 (-1 -6 -9 -9002 -J1A)

Female Luer Thread Style to 400 Series Barb, 1/8" (3.2 mm) ID Tubing


FTLL025 (-1 -2 -3 -4 -5 -06 -07 -6 -6005 -9 -9002)

Female Luer Thread Style to 500 Series Barb, 5/32" (4.0 mm) ID Tubing


FTLL240 (-0USP* -1 -2 -3 -5 -6 -9 -9002 -J1A)

Female Luer Thread Style to 200 Series Barb, 5/32" (4.0 mm) ID Tubing

*Natural Nylon USP Class VI


FTLL445 (-1 -6 -9 -9002 -J1A)

Female Luer Thread Style to 400 Series Barb, .170" (4.3 mm) ID Tubing


FTLL035 (-1 -2 -3 -4 -5 -06 -07 -6 -6005 -9 -9002 -J1A)

Female Luer Thread Style to 500 Series Barb, 3/16" (4.8 mm) ID Tubing


FTLL250 (-1 -3 -5 -6 -9 -9002 -J1A)

Female Luer Thread Style to 200 Series Barb, 3/16" (4.8 mm) ID Tubing


FTLL450 (-1 -6 -9 -9002 -J1A)

Female Luer Thread Style to 400 Series Barb, 3/16" (4.8 mm) ID Tubing


FTLL055 (-1 -2 -3 -4 -5 -06 -07 -6 -6005 -9 -9002)

Female Luer Thread Style to 500 Series Barb, 1/4" (6.4 mm) ID Tubing


FTLL360 (-1 -3 -5 -6 -9 -9002 -J1A)

Female Luer Thread Style to 300 Series Barb, 1/4" (6.4 mm) ID Tubing



FEMALE LUER: Smooth Bore, Thread Style

FEMALE LUER: Lug Style

Material Suffix Key

-1 White Nylon
-4 Green Nylon
-6 Natural Polypropylene
-9 Clear Polycarbonate

-10 Acetal
-5 Blue Nylon
-6005 Animal-Free Polypropylene
-9002 Radiation Stable Polycarbonate

-2 Black Nylon
-06 Orange Nylon
-8003 Natural ABS
-J1A Natural Kynar PVDF

-3 Red Nylon
-07 Yellow Nylon
-81 Lace White ABS

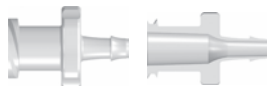
FTLLSB004 (-1 -6 -9)

Female Luer Thread Style Smooth Bore to 500 Series Barb, 1/16" (1.6 mm) ID Tubing



FTLLSB007 (-1 -6 -9)

Female Luer Thread Style Smooth Bore to 500 Series Barb, 3/32" (2.4 mm) ID Tubing



FTLLSB013 (-1 -6 -9)

Female Luer Thread Style Smooth Bore to 500 Series Barb, 1/8" (3.2 mm) ID Tubing



WHY CHOOSE A SMOOTH BORE?

Our Smooth Bore Luers have a smooth inner transition providing for easy insertion of guide wires, probes and other devices.

These components feature a specially designed finger grip to differentiate them from our other luer connectors.

FEMALE LUER: Lug Style

FTL10 (-1 -6 -9 -J1A)

Female Luer Lug Style to Classic Series Barb, 1/16" (1.6 mm) ID Tubing



FTL210 (-1 -6 -9 -J1A)

Female Luer Lug Style to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



FTL20 (-1 -07 -6 -9 -J1A)

Female Luer Lug Style to Classic Series Barb, 3/32" (2.4 mm) ID Tubing



FTL220 (-1 -3 -5 -6 -9 -J1A)

Female Luer Lug Style to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



FTL30 (-1 -6 -9 -J1A)

Female Luer Lug Style to Classic Series Barb, 1/8" (3.2 mm) ID Tubing



FTL230 (-1 -3 -5 -6 -9 -J1A)

Female Luer Lug Style to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



FTL240 (-1 -6 -9)

Female Luer Lug Style to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



LUER:

Adapters, Couplers and Lock Rings

FSLLR (-1 -2 -3 -4 -5 -06 -07 -6 -9 -9002)

Finger Snap Luer Lock Ring



MLRLC (-1 -6 -6005 -9)

Male Luer Coupler (May be used with separate rotating lock rings; FSLLR)



MTLCS (-1 -6 -9 -J1A)

Male Luer Slip Coupler



FTLLC (-1 -6 -9 -9002 -J1A)

Female Luer Thread Style Coupler



LUER

Material Suffix Key

-1 White Nylon	-10 Acetal	-2 Black Nylon	-3 Red Nylon
-4 Green Nylon	-5 Blue Nylon	-06 Orange Nylon	-07 Yellow Nylon
-6 Natural Polypropylene	-6005 Animal-Free Polypropylene	-8003 Natural ABS	-81 Lace White ABS
-9 Clear Polycarbonate	-9002 Radiation Stable Polycarbonate	-J1A Natural Kynar PVDF	

FTLC (-1 -6 -9 -9002 -J1A)

Female Luer Lug Style Coupler


LC34 (-1 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring to Female Luer Thread Style Coupler


LC78 (-1 -6 -9 -9002 -J1A)

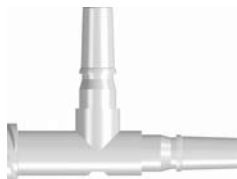
Male Luer to Female Luer Thread Style Coupler (May be used with separate rotating lock ring; FSLLR)


LT878 (-1 -6 -9 -9002)

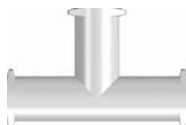
Female Luer Thread Style (2) to Male Luer Tee (May be used with separate rotating lock ring; FSLLR)


LT787 (-1 -6 -9 -9002)

Male Luer (2) to Female Luer Thread Style Tee (May be used with separate rotating lock ring; FSLLR)


FTLT (-1 -6 -9 -J1A)

Female Luer Lug Style Tee


FTLLE (-1 -6 -9 -J1A)

Female Luer Thread Style Elbow


FTLE (-1 -6 -9 -J1A)

Female Luer Lug Style Elbow


LE87 (-1 -6 -8003 -9 -9002)

Male Luer to Female Luer Thread Style Elbow (May be used with separate rotating lock ring; FSLLR)


LE7220 (-1 -2)

Male Luer to 200 Series Barb Elbow, 3/32" (2.4 mm) ID Tubing (May be used with separate rotating lock ring; FSLLR)


LE7230 (-1 -6 -9)

Male Luer to 200 Series Barb Elbow 1/8" (3.2 mm) ID Tubing (May be used with separate rotating lock ring; FSLLR)


CA091 (-001*)

Male Luer Elbow to 3/16" Classic Series Barb, (CF361-9002) with Rotating Lock Ring (FSLLR-9002)



*Radiation Stable Polycarbonate

Material Suffix Key

-1 White Nylon
-4 Green Nylon
-6 Natural Polypropylene
-9 Clear Polycarbonate

-10 Acetal
-5 Blue Nylon
-6005 Animal-Free Polypropylene
-9002 Radiation Stable Polycarbonate

-2 Black Nylon
-06 Orange Nylon
-8003 Natural ABS
-J1A Natural Kynar PVDF

-3 Red Nylon
-07 Yellow Nylon
-81 Lace White ABS

MTLLP (-1 -2 -3 -07 -6 -6005 -9 -J1A)

Male Luer Integral Lock Ring Plug, Closed at Luer Tip



LP4 (-1 -2 -3 -4 -5 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring Plug, Closed at Grip



VLP4 (-1 -3 -6 -81 -J1A)

Male Luer Integral Lock Ring Vented Plug, Closed at Grip



MLRLP (-1 -6 -9)

Male Luer Plug (May be used with separate rotating lock ring; FSLLR)



MLSLP (-1 -6 -9)

Male Luer Plug (May be used with separate stationary lock ring; FSLLR)



MTLP (-1 -6 -9 -J1A)

Male Luer Plug, Closed at Tether Loop (May be used with separate stationary lock ring; MLLR)



MTLSP (-1 -6 -9 -J1A)

Male Luer Slip Plug, Closed at Grip



FTLP (-1 -6 -9 -J1A)

Female Luer Lug Style Cap with Tether Loop



FTLLP (-1 -2 -3 -5 -07 -6 -6005 -9 -9002 -J1A)

Female Luer Thread Style Cap



LP34 (-1 -3 -5 -6 -9 -9002 -J1A)

Male Luer Integral Lock Ring to Female Luer Thread Style Plug



LUER TO THREAD:

Male

ABSML-6 OVER (-1 -2 -3 -4 -5 -06 -07)

Male Luer with Rotating Lock Ring and 5/16" Hex to 1/4-28 UNF Bottom Sealing Thread



ABSML-J1A OVER (-1 -2 -3 -4 -5 -06 -07)

Male Luer with Rotating Lock Ring and 5/16" Hex to 1/4-28 UNF Bottom Sealing Thread



XMTLL (-1 -6 -9 -J1A)

Male Luer Integral Lock Ring to 10-32 Special Tapered Thread



SMTLL (-1 -6 -9 -J1A)

Male Luer Integral Lock Ring to 1/4-28 UNF Thread



18MTLL (-1 -2 -6 -J1A)

Male Luer Integral Lock Ring with 7/16" Hex to 1/8-27 NPT Thread



LUER TO THREAD:*Male***LUER TO THREAD:***Female***Material Suffix Key**

-1 White Nylon

-4 Green Nylon

-6 Natural Polypropylene

-9 Clear Polycarbonate

-10 Acetal

-5 Blue Nylon

-6005 Animal-Free Polypropylene

-9002 Radiation Stable Polycarbonate

-2 Black Nylon

-06 Orange Nylon

-8003 Natural ABS

-J1A Natural Kynar PVDF

-3 Red Nylon

-07 Yellow Nylon

-81 Lace White ABS

14MTLL (-1 -2 -6)

Male Luer Integral Lock Ring with 9/16" Hex to 1/4-18 NPT Thread

**XMLRL (-1 -6 -9 -9002)**

Male Luer with 1/4" Hex to 10-32 Special Tapered Thread (May be used with separate rotating lock ring; FSLLR)

**SMLRL (-1 -6 -9 -J1A)**

Male Luer with 5/16" Hex to 1/4-28 UNF Thread (May be used with separate rotating lock ring; FSLLR)

**BSMLRL (-6 -J1A)**

Male Luer with 5/16" Hex to 1/4-28 Bottom-Sealing Thread (May be used with separate rotating lock ring; FSLLR)

**LUER TO THREAD:***Female***XFTLL (-1 -6 -9 -J1A)**

Female Luer Thread Style with 1/4" Hex to 10-32 Special Tapered Thread

**KFTLL (-1 -6 -9 -J1A)**

Female Luer Thread Style with 1/4" Hex to 10-32 UNF Thread

**SFTLL (-1 -2 -6 -9 -J1A)**

Female Luer Thread Style with 5/16" Hex to 1/4-28 UNF Thread

**BSFTLL (-1 -6 -J1A)**

Female Luer Thread Style with 5/16" Hex to 1/4-28 UNF Bottom Sealing Thread

**XFTL (-1 -6 -9 -J1A)**

Female Luer Lug Style with 1/4" Hex to 10-32 Special Tapered Thread

**KFTL (-1 -6 -9 -J1A)**

Female Luer Lug Style with 1/4" Hex to 10-32 UNF Thread

**SFTL (-1 -6 -9 -J1A)**

Female Luer Lug Style with 5/16" Hex to 1/4-28 UNF Thread

**18FTLL (-1 -6 -J1A)**

Female Luer Thread Style with 7/16" Hex to 1/8-27 NPT Thread

**18LFTLL (-1 -4 -5 -6 -J1A -62*)**

Female Luer Thread Style Elbow with 7/16" Hex to 1/8-27 NPT Thread



*Black Polypropylene

PANEL MOUNTS:*Female Thread Style and Lug Style Luer***FTLLB210 (-1 -2 -6 -9 -J1A)**

Female Luer Thread Style Panel Mount 1/4-28 UNF to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**FTLLB220 (-1 -2 -6 -9 -J1A)**

Female Luer Thread Style Panel Mount 1/4-28 UNF to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**FTLLB230 (-1 -2 -6 -9 -J1A)**

Female Luer Thread Style Panel Mount 1/4-28 UNF to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



PANEL MOUNTS:*Female Lug Style, Thread Style and Male Luer***PANEL MOUNT ACCESSORIES:***Lock Nuts and Color Coding Rings***Material Suffix Key**

- 1 White Nylon
- 4 Green Nylon
- 6 Natural Polypropylene
- 9 Clear Polycarbonate
- 10 Acetal
- 5 Blue Nylon
- 6005 Animal-Free Polypropylene
- 9002 Radiation Stable Polycarbonate

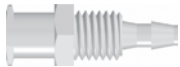
- 2 Black Nylon
- 06 Orange Nylon
- 8003 Natural ABS
- J1A Natural Kynar PVDF
- 3 Red Nylon
- 07 Yellow Nylon
- 81 Lace White ABS

FTLB210 (-1 -6 -9 -J1A)

Female Luer Lug Style Panel Mount 1/4-28 UNF to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**FTLB220 (-1 -6 -9 -J1A)**

Female Luer Lug Style Panel Mount 1/4-28 UNF to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**FTLB230 (-1 -6 -9 -J1A)**

Female Luer Lug Style Panel Mount 1/4-28 UNF to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**FTLLBMLRL (-1 -6)**

Female Luer Thread Style Panel Mount 1/4-28 UNF to Male Luer (May be used with separate rotating lock ring; FSLLR)

**MLRLB210 (-1 -6)**

Male Luer Panel Mount 10-32 UNF to 200 Series Barb, 1/16" (1.6 mm) ID Tubing, (May be used with separate rotating lock ring; FSLLR)

**MLRLB220 (-1 -6)**

Male Luer Panel Mount 10-32 UNF to 200 Series Barb, 3/32" (2.4 mm) ID Tubing, (May be used with separate rotating lock ring; FSLLR)

**MLRLB230 (-1 -6)**

Male Luer Panel Mount 1/4-28 UNF to 200 Series Barb, 1/8" (3.2 mm) ID Tubing, (May be used with separate rotating lock ring; FSLLR)

**CCR (-1 -2 -3 -4 -5 -06 -07)**

Color Coded Ring (For use with PMS, PMK, FTLLB or FTLB panel mount fittings)

**CCLR (-1 -2 -3 -4 -5 -06 -07)**

Color Coded Lock Ring (For use with PMS, PMK, FTLLB or FTLB panel mount fittings)

**PMKN (-XO*)**

Panel Mount Nut 10-32 UNF with 3/8" Hex (For use with PMK panel mount fittings)



*Stainless Steel

PMSN (-XO*)

Panel Mount Nut 1/4-28 UNF with 7/16" Hex (For use with PMS, FTLB, and FTLLB panel mount fittings)



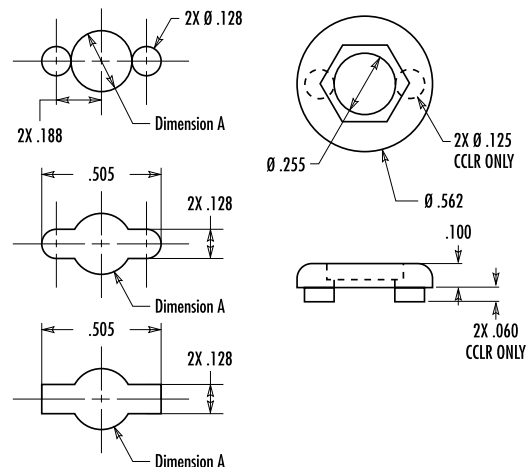
*Stainless Steel

LNS (-1 -2 -3 -4 -5 -06 -07 -6 -81 -J1A)

1/4-28 UNF Panel Mount Lock Nut (For use with PMS, FTLLB or FTLB panel mount fittings)

**SELECT THE CORRECT LOCK NUT FOR YOUR PANEL MOUNT:**

PART	Dimension A	Use Lock Nut
FTLLB Series	.255"	PMSN or LNS
FTLB Series	.255"	PMSN or LNS
FTLLBMLRL	.255"	PMSN or LNS
MLRLB210	.193"	PMKN
MLRLB220	.193"	PMKN
MLRLB230	.255	PMSN or LNS



BLOOD PRESSURE



BPF SERIES **PG-27**



BAYONET MALE CUFF CONNECTORS & DINAMAP® MONITOR ADAPTERS **PG-28**



BPLF 1/4 TURN CUFF CONNECTORS **PG-28**



CUFF CONNECTORS **PG-28**



THE BPF SERIES

From Value Plastics, the reference standard for healthcare fluid management products: The BPF Series bayonet-style female quick connector. BPF series quick connect fittings are designed to withstand abuse, provide economy and ease of use over other alternatives, and comply with ISO Standard BS EN 1060-3.

Ergonomic Shape

- Easy to hold, even with gloves
- Won't irritate patients in case of incidental contact

Large Guarded Button

- Easy to use, even with gloves
- Easy to understand, convenient operation
- Protected against accidental disconnect

Push To Connect

- Easiest connector to use, even with gloves

O-Ring Seal

- Never gets more difficult to put together
- Consistent performance throughout product life

Bayonet Rotates In Connector

- Prevents kinked tubes
- Facilitates easy connections to patient cuff

Unique Spring-Loaded Bayonet Retainer

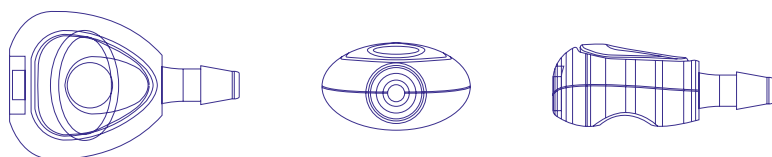
- Clicks when assembled to signal secure connection
- Resists accidental disconnects

Rugged Polymer Construction

- Withstands tens of thousands of cycles
- Withstands hospital sanitizing procedures

Unimpeded Flow Path

- Better acoustics for accurate readings



THE **BPF** SERIES

BAYONET-STYLE FEMALE QUICK CONNECT FITTING

BPF220-001 3/32" (2.4 mm) ID tubing, 200 Series barb

BPF230-001 1/8" (3.2 mm) ID tubing, 200 Series barb

BPF240-001 5/32" (4.0 mm) ID tubing, 200 Series barb

BPF250-001 3/16" (4.8 mm) ID tubing, 200 Series barb

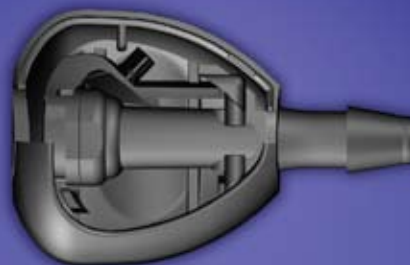
Housing: ABS

O-Ring: Buna-N (lubricated)

Bayonet Retainer: Nylon

Button: Acetal

Spring: 304 Stainless Steel



Patent Pending



Bayonet Male Connectors



BPM013-1 White Nylon
1/8" (3.2 mm) ID tubing, 500 Series barb



BPM240-1 White Nylon
5/32" (4.0 mm) ID tubing, 200 Series barb



BPM025-1 White Nylon
5/32" (4.0 mm) ID tubing, 500 Series barb

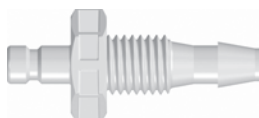


BPM035-1 White Nylon
3/16" (4.8 mm) ID tubing, 500 Series barb

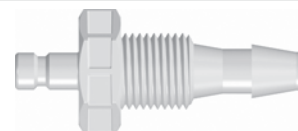
Bayonet Panel Mount Connectors



BPMB230-1 White Nylon
1/8" (3.2 mm) ID tubing, 200 Series barb
1/4-28 UNF Thread



BPMB240-1 White Nylon
5/32" (4.0 mm) ID tubing, 200 Series barb
5/16-24 UNF Thread



BPMB250-1 White Nylon
3/16" (4.8 mm) ID tubing, 200 Series barb
3/8-24 UNF Thread

Panel Mount Nuts



PMSN-X0 Stainless Steel
Panel Mount Nut 1/4-28 UNF with 7/16"
Hex (for use with BPMB230 connectors)



PM3N-X0 Zinc-Plated Class 2 Steel
Panel Mount Nut 5/16-24 UNF with 1/2"
Hex (for use with BPMB240 connectors)



PM2N-X0 Zinc-Plated Class 2 Steel
Panel Mount Nut 3/8-24 UNF with 9/16"
Hex (for use with BPMB250 connectors)

BLOOD
PRESSURE

BLOOD PRESSURE:*Bayonet Male Cuff Connectors and Dinamap® Monitor Adapters***Material Suffix Key**

-001 Black Nylon over White Nylon
-8012 White ABS

-1 White Nylon

-10 Acetal

-81 Lace White ABS

BPM013 (-1)

Blood Pressure Monitor Bayonet Connector to 500 Series Barb, 1/8" (3.2 mm) ID Tubing



works with...

**BPM240 (-1)**

Blood Pressure Monitor Bayonet Connector to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



works with...

**BPM025 (-1)**

Blood Pressure Monitor Bayonet Connector to 500 Series Barb, 5/32" (4.0 mm) ID Tubing



works with...

**BPM035 (-1)**

Blood Pressure Monitor Bayonet Connector to 500 Series Barb, 3/16" (4.8 mm) ID Tubing



works with...

**BPMMTLL (-1)**

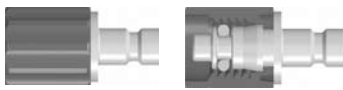
Blood Pressure Monitor Bayonet Connector to Male Luer Integral Lock Ring



works with...

**BPAM (-001)**

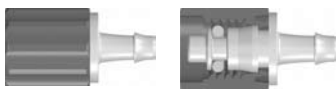
Blood Pressure Monitor Bayonet Connector to Internal 5/16-24 UNF Thread and O-Ring



works with...

**BPA013 (-001)**

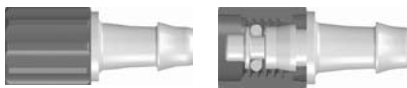
Blood Pressure Adapter with Internal 5/16-24 UNF Thread and O-Ring to 500 Series Barb, 1/8" (3.2 mm) ID Tubing

**BPA025 (-001)**

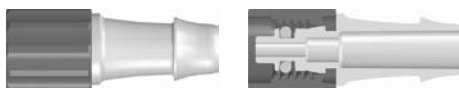
Blood Pressure Adapter with Internal 5/16-24 UNF Thread and O-Ring to 500 Series Barb, 5/32" (4.0 mm) ID Tubing

**BPA035 (-001)**

Blood Pressure Adapter with Internal 5/16-24 UNF Thread and O-Ring to 500 Series Barb, 3/16" (4.8 mm) ID Tubing

**BPA055 (-001)**

Blood Pressure Adapter with Internal 5/16-24 UNF Thread and O-Ring to 500 Series Barb, 1/4" (6.4 mm) ID Tubing



THE BPLF SERIES

CUFF CONNECTORS

Value Plastics introduces BPLF Series quarter-turn cuff connectors, expanding the range of solutions offered to blood pressure cuff manufacturers. BPLF Series products feature an ergonomic grip, facilitating gripping the fitting, connecting and disconnecting the cuff as needed. They mate perfectly with quarter-turn male o-ring connectors already found on some patient monitoring equipment.

BPLF230 (-8012)

Quarter-turn Female Blood Pressure Cuff Connector to 200 Series Barb, 1/8" (3.2 mm) Tubing ID

**BPLF240 (-8012)**

Quarter-turn Female Blood Pressure Cuff Connector to 200 Series Barb, 5/32" (4.0 mm) Tubing ID



HROMalytic +61(0)3 9762 2034 09

AUSTRALIAN Distributors

ECHnology www.chromtech.net.au

Material Suffix Key

 -001 Black Nylon over White Nylon
 -8012 White ABS

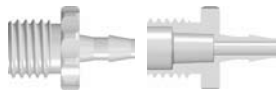
-1 White Nylon

-10 Acetal

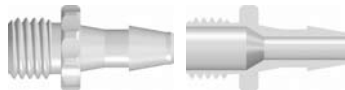
-81 Lace White ABS

BPCL220 (-10 -81)

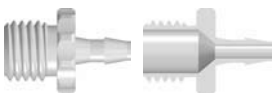
Blood Pressure Adapter with 5/16-24 UNF Thread and 6% Taper to 200 Series Barb, 3/32" (2.4 mm) ID Tubing


BPC240 (-10)

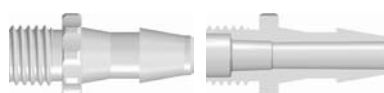
Blood Pressure Adapter with 5/16-24 UNF Thread to 200 Series Barb, 5/32" (4.0 mm) ID Tubing


BPC220 (-10)

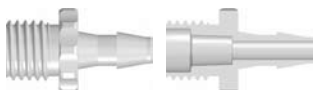
Blood Pressure Adapter with 5/16-24 UNF Thread to 200 Series Barb, 3/32" (2.4 mm) ID Tubing


BPCL250 (-10 -81)

Blood Pressure Adapter with 5/16-24 UNF Thread and 6% Internal Taper to 200 Series Barb, 3/16" (4.8 mm) ID Tubing


BPCL230 (-10 -81)

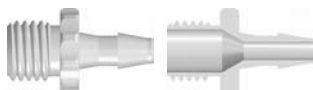
Blood Pressure Adapter with 5/16-24 UNF Thread and 6% Internal Taper to 200 Series Barb, 1/8" (3.2 mm) ID Tubing


BPC250 (-10)

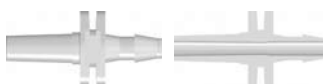
Blood Pressure Adapter with 5/16-24 UNF Thread to 200 Series Barb, 3/16" (4.8 mm) ID Tubing


BPC230 (-10)

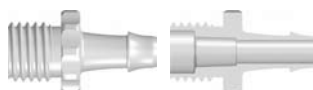
Blood Pressure Adapter with 5/16-24 UNF Thread to 200 Series Barb, 1/8" (3.2 mm) ID Tubing


CF229 (-1)

Neonatal Blood Pressure Slip Fit (non luer) with 200 Series Barb, 3/32" (2.4 mm) ID Tubing


BPCL025 (-10)

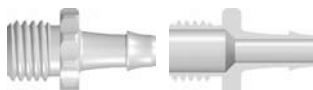
Blood Pressure Adapter with 5/16-24 UNF Thread 6% Internal Taper to 500 Series Barb, 5/32" (4.0 mm) ID Tubing


CF230 (-1)

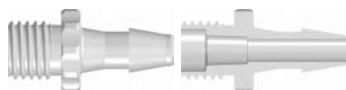
Neonatal Blood Pressure Slip Fit (non luer) with 200 Series Barb, 5/32" (4.0 mm) ID Tubing


BPC025 (-10)

Blood Pressure Adapter with 5/16-24 UNF Thread to 500 Series Barb, 5/32" (4.0 mm) ID Tubing


BPCL240 (-10 -81)

Blood Pressure Adapter with 5/16-24 UNF Thread and 6% Internal Taper to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



TAPERED SEAL



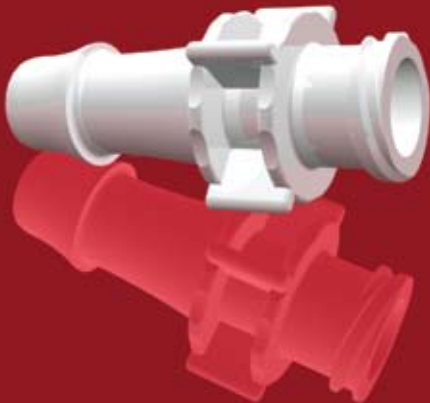
**SMALL BORE
PG-30**



**LARGE BORE MALE
PG-31**



**LARGE BORE FEMALE
PG-31**



**PLUGS AND CAPS
PG-31**



SMALL BORE CONNECTORS: Plugs and Caps

TSC2M013 (-6)

Male Taper Seal Non-Luer Connector to 500 Series Barb, 1/8" (3.2 mm) ID Tubing



TSC2M035 (-6)

Male Taper Seal Non-Luer Connector to 500 Series Barb, 3/16" (4.8 mm) ID Tubing



TSC2F007 (-6)

Female Taper Seal Non-Luer Connector to 500 Series Barb, 3/32" (2.4 mm) ID Tubing



TSC2F013 (-6)

Female Taper Seal Non-Luer Connector to 500 Series Barb, 1/8" (3.2 mm) ID Tubing



TSC2F035 (-6)

Female Taper Seal Non-Luer Connector to 500 Series Barb, 3/16" (4.8 mm) ID Tubing



TSC2FB230 (-6)

Female Taper Seal Non-Luer with 1/4-28 UNF Panel Mount to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



TSC2MP (-6)

Male Taper Seal (Non-Luer) Plug with Tether Recess



LARGE BORE CONNECTORS: Male

LARGE BORE CONNECTORS: Female

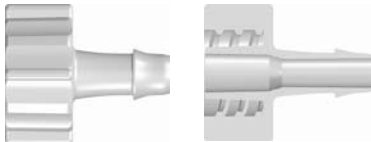
Material Suffix Key

-1 White Nylon
-4 Green Nylon
-6 Natural Polypropylene
-9 Clear Polycarbonate
-10 Acetal
-5 Blue Nylon
-6005 Animal-Free Polypropylene
-9002 Radiation Stable Polycarbonate

-2 Black Nylon
-06 Orange Nylon
-8003 Natural ABS
-11A Natural Kynar PVDF
-3 Red Nylon
-07 Yellow Nylon
-81 Lace White ABS

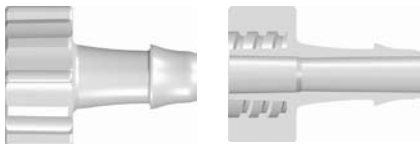
MLB035 (-1 -8012 -9)

Male Large Bore Connector to 500 Series Barb, 3/16" (4.8 mm) ID Tubing



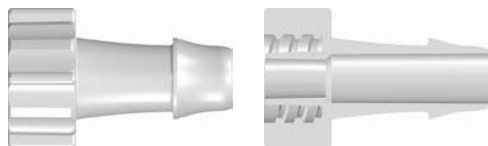
MLB055 (-1 -8012 -9)

Male Large Bore Connector to 500 Series Barb, 1/4" (6.4 mm) ID Tubing



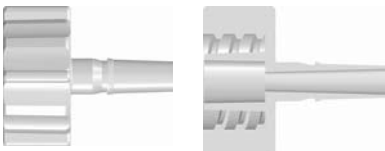
MLB065 (-1 -8012 -9)

Male Large Bore Connector to 500 Series Barb, 5/16" (8.0 mm) ID Tubing



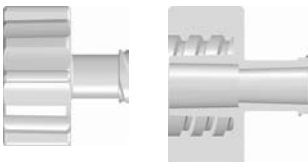
MLBC7 (-9002)

Male Large Bore Connector with Integral Lock Ring to Male Slip Luer (May be Used with Separate Rotating Lock Ring; FSLLR)



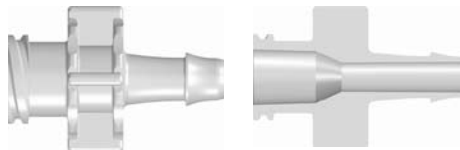
MLBC8 (-9002)

Male Large Bore Connector with Integral Lock Ring to Female Thread-Style Locking Luer



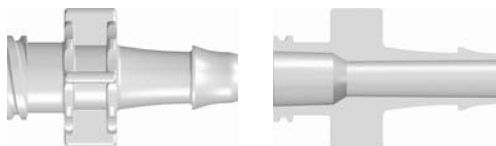
FLB035 (-1 -8012 -9)

Female Large Bore Connector to 500 Series Barb, 3/16" (4.8 mm) ID Tubing



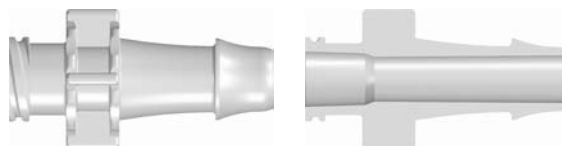
FLB055 (-1 -8012 -9)

Female Large Bore Connector to 500 Series Barb, 1/4" (6.4 mm) ID Tubing



FLB065 (-1 -8012 -9)

Female Large Bore Connector to 500 Series Barb, 5/16" (8.0 mm) ID Tubing



LARGE BORE CONNECTORS: Plugs and Caps

FLBP (-1 -8012 -9)

Female Large Bore Cap



MLBP (-1 -8012 -9 -9002)

Male Large Bore Plug



TAPERED
SEAL



our online ordering for component parts, now
available 24 hours a day, 7 days a week, with no
\$ minimums! You can find every catalog part at:

www.valueplastics.com

(Online ordering is not available in countries served by our regional partners)

DESIGN CENTER



VALUE PLASTICS
DESIGN
CENTER

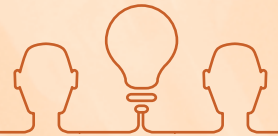
OUR PROCESS

DEFINITION PHASE



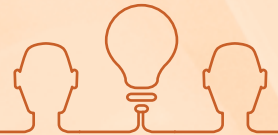
- Define application
- Quantify product usage
- Establish project budget and timeline with customer
- Identify prospective technical challenges
- Develop project plan

DESIGN PHASE



- Collaborative conceptual development
- Research existing technology
- Concept testing and customer review
- Establish final product specifications
- Complete design, gain customer approval

DEVELOPMENT PHASE



- Develop quality plan
- Fabrication and procurement of necessary tooling and equipment
- First Article inspection
- Qualify and validate product
- Customer product approval

PRODUCTION PHASE



- Release manufacturing, inspection and packaging plans
- Manufacture approved product

THE VALUE PLASTICS DESIGN CENTER

Specialists in Fluid Connections

We sometimes hear our customers say **"That would be the perfect fitting if only . . ."** We know a lot is expected of you: leading-edge product capabilities, lower costs, shorter design times, compounded by issues such as biocompatibility, precise flow rate requirements and tight physical envelopes.

As much as you might like to be, you know you're not an expert in everything - especially when it comes to specifying fittings and connectors that are often not your area of expertise.

Make it easy on yourself.

Contact the connection experts at the Value Plastics Design Center. Together we can develop a solution delivering exactly what you want, when you need it, with exceptional quality, at a surprisingly affordable price. Our dedicated team of fluid connection professionals collaborates with you to solve your most difficult challenges.

Our Design Center experts provide:

- Expert and timely design assistance from our dedicated technical staff with years of experience solving real world fluid connection challenges
- Technical support before and after the sale
- In-house testing facilities to validate and qualify design alternatives
- Assistance with medical qualification requirements needed to transform your design into a validated product.

Your Solution. Faster. Cheaper.

Value Plastics is dedicated to meeting your demanding quality and capability needs. The Value Plastics Design Center works with you to develop custom solutions keeping your projects moving - on time and within budget, whether it's a totally new concept or a refinement of one of our 3,100 products.

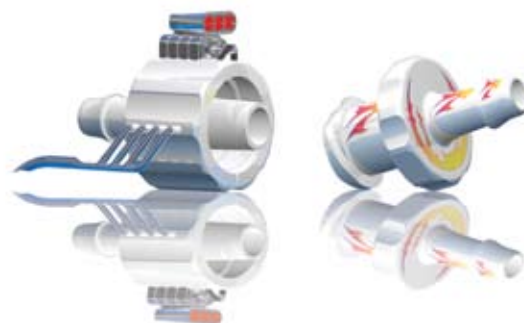
Call us today. Let the Value Plastics Design Center show you how we can affordably meet your exacting flexible tubing connector and fitting needs no matter how complex they might be.
+1 866-582 0965.

It's not often that one of our 3,100 off-the-shelf tubing fittings can't fill your application need. But when they won't, call on the Value Plastics Design Center. Our dedicated team of fluid connection professionals will collaborate with you to find the most appropriate and cost-effective solution.

As an example, a medical device manufacturer recently brought a challenge to the Design Center. Their device's tube fittings had the potential to be misconnected with similar, but distinctly different use, tubing fittings. The Design Center analyzed several potential connector solutions and, using Value Plastics' extensive application engineering base, developed a custom fitting that used reliable sealing technology negating any possibility of misconnect within the customer's proprietary surgical system and their corresponding clinical environment. The resulting custom fitting was engineered easier to use, has higher flow rates, and prevents misconnections, all resulting in greater competitive advantage for the customer.

The Value Plastics Design Center really can provide YOUR solution, faster and cheaper. Contact the Value Plastics Design Center today for an initial consultation, +1 866-582-0965, or email designcenter@valueplastics.com.

Following are examples of custom solutions that Value Plastics has developed. They are displayed to provide an idea of some of the most common modifications available. All the individual parts shown are available on special order. To review case studies, please visit our website at www.valueplastics.com/products/design_center.aspx



Material Suffix Key

-1 White Nylon

-6 Natural Polypropylene

-81 Lace White ABS

-J1A Natural Kynar PVDF

-2 Black Nylon

-62 Black Polypropylene

-9 Clear Polycarbonate

-3 Red Nylon

-63 Red Polypropylene

-91 White Polycarbonate

-5 Blue Nylon

-8 Gray Nylon

-9002 Radiation Stable Polycarbonate

CF104 (-6)

Male Luer Integral Lock Ring Plug, Ø.033 Orifice at Luer Tip

**CF184 (-1)**

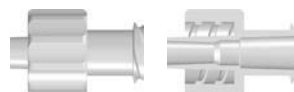
Female Luer To Catheter Handle

**CF226 (-6)**

High Flow Connector to 500 Series Barb, 1/4" (6.4 mm) ID Tubing (May be used with separate rotating lock ring; CF227)

**CF210 (-6)**

Male Luer to Female Luer Thread Style Coupler (Ø.125 Center Bond-in Port)

**CF304 (-6)**

High Flow Connector Body with 500 Series Barb, 3/8" (9.5 mm) ID Tubing

**CF213 (-3)**

Male Luer Integral Lock Ring Plug, Closed at Grip (Ø.055 to Ø.060 Core)

**CF224 (-9)**

Male Luer Integral Lock Ring to 500 Series Barb, 5/32" (4 mm) ID Tubing (Ø.076 Bore)

**CF015 (-1)**

Female Luer Lug Style Flare to M6x.75 Thread

**CF233 (-6)**

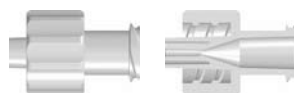
Female Extended Luer Thread Style to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**CF131 (-1)**

Male Luer Integral Lock Ring Plug, Closed at Grip (Short Luer)

**CF235 (-3 -8 -91*)**

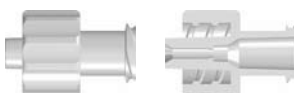
Male Luer to Female Luer Thread Style Coupler (Ø.023 Thru Bore with Ø.033 Male Side Bond-in Port)



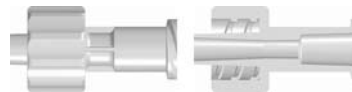
*White Polycarbonate

CF141 (-9)

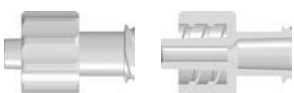
Male Luer to Female Luer Thread Style Coupler (Ø.045 Thru Bore with Ø.055 Male Side Bond-in Port)

**CF239 (-6)**

Male Luer Integral Lock Ring to Female Luer Thread Style Extended Coupler

**CF148 (-9002)**

Male Luer to Female Luer Thread Style Coupler (Ø.045 Thru Bore with Ø.080 Male Side Bond-in Port)

**CF322 (-1)**

Female Luer Lug Style Flare to 1/4-32 UNF Thread



Material Suffix Key

-1 White Nylon
-6 Natural Polypropylene
-81 Lace White ABS
-J1A Natural Kynar PVDF

-2 Black Nylon
-62 Black Polypropylene
-9 Clear Polycarbonate

-3 Red Nylon
-63 Red Polypropylene
-91 White Polycarbonate

-5 Blue Nylon
-8 Gray Nylon
-9002 Radiation Stable Polycarbonate

CF006 (-81)

Elbow Connector with One Classic Series Barb, 1/8" (3.2 mm) Tubing

**CF079 (-1)**

1/8" Tee With Blank Single Leg to 200 Series Barb, for 1/8" (3.2 mm) ID Tubing

**CF128 (-1)**

Straight Through Connector for Orifice Insert, 200 Series Barbs, 1/8" (3.2 mm) ID Tubing

**CF231 (-1 -5 -J1A)**

Tee Reduction Connector with 200 and 400 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing

**CF302 (-1)**

Tee Reduction Connector with 400 Series Barbs, 1/16" (1.6 mm) and 3/32" (2.4 mm) ID Tubing

**CF001 (-6)**

Bottom Sealing 1/4-28 UNF Thread To Classic Series Barb, 1/16" (1.6 mm) ID Tubing

**CF020 (-6 -62* -63**)**

Custom 1/4-28 UNF Bottom Sealing Thread Tube End Coupler (Extended length) 1/8" (3.2 mm) OD Tubing



*Black Polypropylene

**Red Polypropylene

CF022 (-2)

10-32 UNF Thread with 1/4" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing

**CF165 (-6)**

1/4-28 UNF Thread with O-Ring Seal and 5/16" Hex to Classic Series Barb 1/16" (1.6 mm) ID Tubing

**CF166 (-6)**

1/4-28 UNF Thread Plug with O-Ring Seal and 5/16" Hex

**CF173 (-6)**

Bottom Sealing 1/4-28 UNF To 200 Series Barb, 3/16" (4.8 mm) ID Tubing

**CF202 (-J1A)**

10-32 UNF To Tube Elbow With Custom Thread Orientation and 400 Series Barb, 3/32" (2.4 mm) ID Tubing



TUBE-TO-TUBE



STRAIGHT THROUGH
PG-37



STRAIGHT THROUGH REDUCER
PG-38



ELBOW
PG-40



ELBOW REDUCER
PG-41



TEE
PG-41



TEE REDUCER
PG-42



Y
PG-44



MULTIPOINT
PG-45



PRESS-IN PLUGS
PG-46



ULTRASONICALLY WELDABLE BARBS
PG-47



PANEL MOUNTS & ACCESSORIES
PG-47



CUSTOM TUBE-TO-TUBE FITTINGS
PG-35



TUBE-TO-TUBE

Tube-to-tube fittings join lengths of tubing and are available, depending on the Series, in versions to fit the following tubing IDs and barb configurations

Value Plastics tube-to-tube fittings are available in 11 different basic configurations and 4 different barb styles to fit 6 IDs of tubing between 1/16" (1.6 mm) and 1/4" (6.4 mm) tubing IDs. They are available from stock most commonly in nylon, polypropylene, polycarbonate and PVDF. Other materials are available on special order.

AVAILABLE BARB STYLES

Tube ID	Classic	200 Series	400 Series	500 Series
1/16" (1.6 mm)	X	X	X	X
3/32" (2.4 mm)	X	X	X	X
1/8" (3.2 mm)	X	X	X	X
5/32" (4.0 mm)	X	X	X	X
3/16" (4.8 mm)	X	X	X	X
1/4" (6.4 mm)	X	X	X	X
5/16" (8.0 mm)				X

Material Suffix Key

-1 White Nylon	-10 Acetal	-2 Black Nylon	-3 Red Nylon
-4 Green Nylon	-5 Blue Nylon	-06 Orange Nylon	-07 Yellow Nylon
-6 Natural Polypropylene	-6005 Animal-Free Polypropylene	-8003 Natural ABS	-81 Lace White ABS
-9 Clear Polycarbonate	-9002 Radiation Stable Polycarbonate	-J1A Natural Kynar PVDF	

N004 (-1 -2 -6 -9 -J1A)

Straight Through Connector with 500 Series Barbs, 1/16" (1.6 mm) ID Tubing


N210 (-1 -2 -6 -9 -J1A)

Straight Through Connector with 200 Series Barbs, 1/16" (1.6 mm) ID Tubing


N410 (-1 -2 -6 -J1A)

Straight Through Connector with 400 Series Barbs, 1/16" (1.6 mm) ID Tubing


AA (-1 -2 -6 -9 -J1A)

Straight Through Connector with Classic Series Barbs, 1/16" (1.6 mm) ID Tubing


N007 (-1 -2 -6 -6005 -9 -J1A)

Straight Through Connector with 500 Series Barbs, 3/32" (2.4 mm) ID Tubing


N220 (-1 -2 -6 -9 -9002 -J1A)

Straight Through Connector with 200 Series Barbs, 3/32" (2.4 mm) ID Tubing


N420 (-1 -2 -6 -J1A)

Straight Through Connector with 400 Series Barbs, 3/32" (2.4 mm) ID Tubing


DD (-1 -2 -6 -9 -J1A)

Straight Through Connector with Classic Series Barbs, 3/32" (2.4 mm) ID Tubing


N013 (-1 -2 -6 -6005 -9 -J1A -9002)

Straight Through Connector with 500 Series Barbs, 1/8" (3.2 mm) ID Tubing


N230 (-1 -2 -3 -5 -6 -9 -J1A)

Straight Through Connector with 200 Series Barbs, 1/8" (3.2 mm) ID Tubing


N430 (-1 -2 -6)

Straight Through Connector with 400 Series Barbs, 1/8" (3.2 mm) ID Tubing


CC (-1 -2 -6 -9 -J1A)

Straight Through Connector with Classic Series Barbs, 1/8" (3.2 mm) ID Tubing


N025 (-1 -2 -6 -6005 -9 -J1A)

Straight Through Connector with 500 Series Barbs, 5/32" (4.0 mm) ID Tubing


N440 (-1 -2 -5 -6 -9 -J1A)

Straight Through Connector with 400 Series Barbs, 5/32" (4.0 mm) ID Tubing


4040 (-1 -2 -6 -9 -J1A)

Straight Through Connector with Classic Series Barbs, 5/32" (4.0 mm) ID Tubing


N035 (-1 -2 -6 -9 -J1A)

Straight Through Connector with 500 Series Barbs, 3/16" (4.8 mm) ID Tubing


5050 (-1 -2 -6 -9 -9002 -J1A)

Straight Through Connector with Classic Series Barbs, 3/16" (4.8 mm) ID Tubing


N055 (-1 -2 -6 -9 -J1A)

Straight Through Connector with 500 Series Barbs, 1/4" (6.4 mm) ID Tubing


6060 (-1 -2 -6 -9 -9002 -J1A)

Straight Through Connector with Classic Series Barbs, 1/4" (6.4 mm) ID Tubing


N065 (-1 -2 -6 -9 -J1A)

Straight Through Connector with 500 Series Barbs, 5/16" (8 mm) ID Tubing



Material Suffix Key

-1 White Nylon	-10 Acetal	-2 Black Nylon	-3 Red Nylon
-4 Green Nylon	-5 Blue Nylon	-06 Orange Nylon	-07 Yellow Nylon
-6 Natural Polypropylene	-6005 Animal-Free Polypropylene	-8003 Natural ABS	-81 Lace White ABS
-9 Clear Polycarbonate	-9002 Radiation Stable Polycarbonate	-J1A Natural Kynar PVDF	

N007/004 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing


N220/210 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 200 Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing


N420/410 (-1 -2 -6 -10 -J1A)

Straight Through Reduction Connector with 400 Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing


AD (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing


N013/004 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing


N230/210 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 200 Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing


N430/410 (-1 -2 -6 -J1A)

Straight Through Reduction Connector with 400 Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing


AC (-0 -1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing


N025/004 (-1 -2 -6 -6005 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 5/32" (4.0 mm) and 1/16" (1.6 mm) ID Tubing


1040 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 5/32" (4.0 mm) and 1/16" (1.6 mm) ID Tubing


1050 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 3/16" (4.8 mm) and 1/16" (1.6 mm) ID Tubing


N013/007 (-1 -2 -6 -9 -9002 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing


N230/220 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 200 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing


N430/420 (-1 -2 -6 -J1A)

Straight Through Reduction Connector with 400 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing


DC (-1 -2 -6 -9)

Straight Through Reduction Connector with Classic Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing


N025/007 (-1 -2 -6 -6005 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 5/32" (4.0 mm) and 3/32" (2.4 mm) ID Tubing


2040 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 5/32" (4.0 mm) and 3/32" (2.4 mm) ID Tubing


N035/007 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 3/16" (4.8 mm) and 3/32" (2.4 mm) ID Tubing



Material Suffix Key

-1 White Nylon
 -4 Green Nylon
 -6 Natural Polypropylene
 -9 Clear Polycarbonate

-10 Acetal
 -5 Blue Nylon
 -6005 Animal-Free Polypropylene
 -9002 Radiation Stable Polycarbonate

-2 Black Nylon
 -06 Orange Nylon
 -8003 Natural ABS
 -J1A Natural Kynar PVDF

-3 Red Nylon
 -07 Yellow Nylon
 -81 Lace White ABS

2050 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 3/16" (4.8 mm) and 3/32" (2.4 mm) ID Tubing


N025/013 (-1 -2 -6 -6005 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 5/32" (4.0 mm) and 1/8" (3.2 mm) ID Tubing


3040 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 5/32" (4.0 mm) and 1/8" (3.2 mm) ID Tubing


N035/013 (-1 -2 -6 -6005 -81 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 3/16" (4.8 mm) and 1/8" (3.2 mm) ID Tubing


3050 (-1 -2 -5 -6 -6005 -81 -9 -9002 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 3/16" (4.8 mm) and 1/8" (3.2 mm) ID Tubing


N055/013 (-1 -2 -6 -9 -J1A)

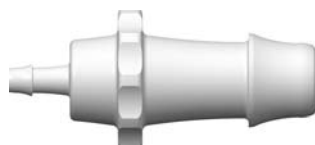
Straight Through Reduction Connector with 500 Series Barbs, 1/4" (6.4 mm) and 1/8" (3.2 mm) ID Tubing


3060 (-1 -2 -6 -6005 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 1/4" (6.4 mm) and 1/8" (3.2 mm) ID Tubing


N070/013 (-0 -6 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 3/8" (9.5 mm) and 1/8" (3.2 mm) ID Tubing


N035/025 (-1 -2 -6 -6005 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 3/16" (4.8 mm) and 5/32" (4.0 mm) ID Tubing


4050 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 3/16" (4.8 mm) and 5/32" (4.0 mm) ID Tubing


N055/025 (-1 -2 -6 -6005 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 1/4" (6.4 mm) and 5/32" (4.0 mm) ID Tubing


4060 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 1/4" (6.4 mm) and 5/32" (4.0 mm) ID Tubing


N065/025 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 5/16" (8.0 mm) and 5/32" (4.0 mm) ID Tubing


N055/035 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 1/4" (6.4 mm) and 3/16" (4.8 mm) ID Tubing


5060 (-1 -2 -6 -6005 -9 -9002 -J1A)

Straight Through Reduction Connector with Classic Series Barbs, 1/4" (6.4 mm) and 3/16" (4.8 mm) ID Tubing



TUBE-TO-TUBE: Straight Through Reducer

TUBE-TO-TUBE: Elbow

Material Suffix Key

-1 White Nylon
-4 Green Nylon
-6 Natural Polypropylene
-9 Clear Polycarbonate
-10 Acetal
-5 Blue Nylon
-6005 Animal-Free Polypropylene
-9002 Radiation Stable Polycarbonate

-2 Black Nylon
-06 Orange Nylon
-8003 Natural ABS
-J1A Natural Kynar PVDF
-3 Red Nylon
-07 Yellow Nylon
-81 Lace White ABS

N065/035 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 5/16" (8.0 mm) and 3/16" (4.8 mm) ID Tubing



N065/055 (-1 -2 -6 -9 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 5/16" (8.0 mm) and 1/4" (6.4 mm) ID Tubing



N070/055 (-0 -1 -6 -9)

Straight Through Reduction Connector with 500 Series Barbs, 3/8" (9.5 mm) and 1/4" (6.4 mm) ID Tubing



TUBE-TO-TUBE: Elbow

L210 (-1 -2 -6 -9 -J1A)

Elbow Connector with 200 Series Barbs, 1/16" (1.6 mm) ID Tubing



L410 (-1 -2 -6 -J1A)

Elbow Connector with 400 Series Barbs, 1/16" (1.6 mm) ID Tubing



L10 (-1 -2 -6 -J1A)

Elbow Connector with Classic Series Barbs, 1/16" (1.6 mm) ID Tubing



L220 (-1 -2 -6 -9 -9002 -J1A)

Elbow Connector with 200 Series Barbs, 3/32" (2.4 mm) ID Tubing



L420 (-1 -2 -6 -J1A)

Elbow Connector with 400 Series Barbs, 3/32" (2.4 mm) ID Tubing



L20 (-1 -2 -6 -J1A)

Elbow Connector with Classic Series Barbs, 3/32" (2.4 mm) ID Tubing



L230 (-1 -2 -6 -9 -J1A)

Elbow Connector with 200 Series Barbs, 1/8" (3.2 mm) ID Tubing



L430 (-1 -2 -6 -J1A)

Elbow Connector with 400 Series Barbs, 1/8" (3.2 mm) ID Tubing



L30 (-1 -2 -6 -J1A)

Elbow Connector with Classic Series Barbs, 1/8" (3.2 mm) ID Tubing



L40 (-1 -2 -6 -J1A)

Elbow Connector with Classic Series Barbs, 5/32" (4.0 mm) ID Tubing



L440 (-2)

Elbow Connector with 400 Series Barbs, 5/32" (4.0 mm) ID Tubing



L50 (-1 -2 -6 -J1A)

Elbow Connector with Classic Series Barbs, 3/16" (4.8 mm) ID Tubing



TUBE-TO-TUBE:
Elbow
TUBE-TO-TUBE:
Elbow Reducer
Material Suffix Key

-1 White Nylon
 -4 Green Nylon
 -6 Natural Polypropylene
 -9 Clear Polycarbonate

-10 Acetal
 -5 Blue Nylon
 -6005 Animal-Free Polypropylene
 -9002 Radiation Stable Polycarbonate

-2 Black Nylon
 -06 Orange Nylon
 -8003 Natural ABS
 -J1A Natural Kynar PVDF

-3 Red Nylon
 -07 Yellow Nylon
 -81 Lace White ABS

L60 (-1 -2 -6 -J1A)

Elbow Connector with Classic Series Barbs, 1/4" (6.4 mm) ID Tubing


TUBE-TO-TUBE:
Elbow Reducer
L220/210 (-1 -2 -6 -9 -J1A)

Elbow Reduction Connector with 200 Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing


L420/410 (-1 -2 -6 -J1A)

Elbow Reduction Connector with 400 Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing


L230/210 (-1 -2 -6 -9 -J1A)

Elbow Reduction Connector with 200 Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing


L430/410 (-1 -2 -6 -J1A)

Elbow Reduction Connector with 400 Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing


L230/220 (-1 -2 -6 -9 -J1A)

Elbow Reduction Connector with 200 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing


L430/420 (-1 -2 -6 -J1A)

Elbow Reduction Connector with 400 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing


L430/220 (-9002)

Elbow Reduction Connector with a 400 Series Barb, 1/8" (3 mm) and a 200 Series Barb, 3/32" (2.25 mm) ID Tubing


TUBE-TO-TUBE:
Tee
T210 (-1 -2 -6 -9 -J1A)

Tee Connector with 200 Series Barbs, 1/16" (1.6 mm) ID Tubing


T410 (-1 -2 -6 -J1A)

Tee Connector with 400 Series Barbs, 1/16" (1.6 mm) ID Tubing


T10 (-1 -2 -6 -J1A)

Tee Connector with Classic Series Barbs, 1/16" (1.6 mm) ID Tubing


T220 (-1 -2 -6 -9 -J1A)

Tee Connector with 200 Series Barbs, 3/32" (2.4 mm) ID Tubing


T420 (-1 -2 -6 -J1A)

Tee Connector with 400 Series Barbs, 3/32" (2.4 mm) ID Tubing


T20 (-1 -2 -6 -J1A)

Tee Connector with Classic Series Barbs, 3/32" (2.4 mm) ID Tubing


T230 (-1 -2 -5 -6 -9 -J1A)

Tee Connector with 200 Series Barbs, 1/8" (3.2 mm) ID Tubing


T430 (-1 -2 -6 -9002 -J1A)

Tee Connector with 400 Series Barbs, 1/8" (3.2 mm) ID Tubing


TUBE-TO-TUBE

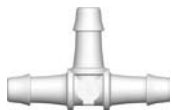
TUBE-TO-TUBE:*Tee***TUBE-TO-TUBE:***Tee Reducer***Material Suffix Key**

-1 White Nylon
 -4 Green Nylon
 -6 Natural Polypropylene
 -9 Clear Polycarbonate
 -10 Acetal
 -5 Blue Nylon
 -6005 Animal-Free Polypropylene
 -9002 Radiation Stable Polycarbonate

-2 Black Nylon
 -06 Orange Nylon
 -8003 Natural ABS
 -J1A Natural Kynar PVDF
 -3 Red Nylon
 -07 Yellow Nylon
 -81 Lace White ABS

T013 (-6005)

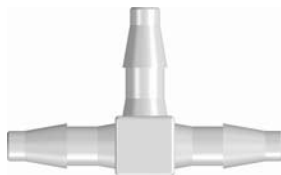
Tee Connector with 500 Series Barbs, 1/8" (3.2 mm) ID Tubing

**T30 (-1 -2 -6 -9 -J1A)**

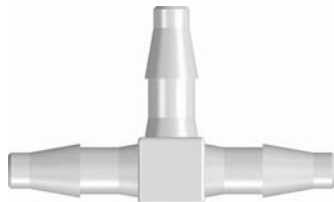
Tee Connector with Classic Series Barbs, 1/8" (3.2 mm) ID Tubing

**T40 (-1 -2 -6 -J1A)**

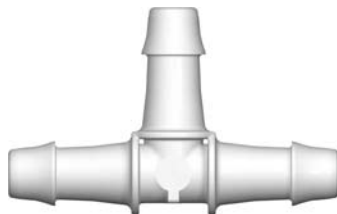
Tee Connector with Classic Series Barbs, 5/32" (4 mm) ID Tubing

**T50 (-1 -2 -6 -J1A)**

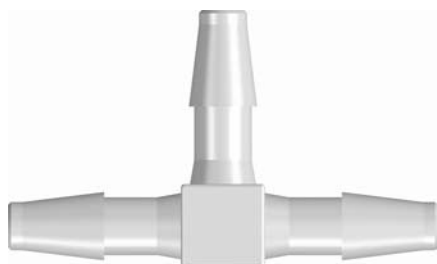
Tee Connector with Classic Series Barbs, 3/16" (4.8 mm) ID Tubing

**T055 (-6005)**

Tee Connector with 500 Series Barbs, 1/4" (6.4 mm) ID Tubing

**T60 (-1 -2 -6 -J1A)**

Tee Connector with Classic Series Barbs, 1/4" (6.4 mm) ID Tubing

**T210/220 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 Series Barbs, 1/16" (1.6 mm) and 3/32" (2.4 mm) ID Tubing

**T410/420 (-1 -2 -6 -J1A)**

Tee Reduction Connector with 400 Series Barbs, 1/16" (1.6 mm) and 3/32" (2.4 mm) ID Tubing

**T420/410 (-1 -2 -6 -J1A)**

Tee Reduction Connector with 400 Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing

**T220/210 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing

**T220R210 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing

**T420R410 (-1 -2 -6 -J1A)**

Tee Reduction Connector with 400 Series Barbs, 3/32" (2.4 mm) and 1/16" (1.6 mm) ID Tubing

**T430/410 (-1 -2 -6 -J1A)**

Tee Reduction Connector with 400 Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing

**T230/210 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing



TUBE-TO-TUBE:**Tee Reducer****Material Suffix Key**

-1 White Nylon	-10 Acetal	-2 Black Nylon	-3 Red Nylon
-4 Green Nylon	-5 Blue Nylon	-06 Orange Nylon	-07 Yellow Nylon
-6 Natural Polypropylene	-6005 Animal-Free Polypropylene	-8003 Natural ABS	-81 Lace White ABS
-9 Clear Polycarbonate	-9002 Radiation Stable Polycarbonate	-J1A Natural Kynar PVDF	

T210/230 (-1 -2 -6 -9 -J1A)

Tee Reduction Connector with 200 Series Barbs, 1/16" (1.6 mm) and 1/8" (3.2 mm) ID Tubing

**T410/430 (-1 -2 -6 -J1A)**

Tee Reduction Connector with 400 Series Barbs, 1/16" (1.6 mm) and 1/8" (3.2 mm) ID Tubing

**T230R210 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing

**T430R410 (-1 -2 -6 -J1A)**

Tee Reduction Connector with 400 Series Barbs, 1/8" (3.2 mm) and 1/16" (1.6 mm) ID Tubing

**T220/230 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 Series Barbs, 3/32" (2.4 mm) and 1/8" (3.2 mm) ID Tubing

**T420/430 (-1 -2 -6 -J1A)**

Tee Reduction Connector with 400 Series Barbs, 3/32" (2.4 mm) and 1/8" (3.2 mm) ID Tubing

**T230/220 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing

**T430/420 (-1 -2 -3 -6 -J1A)**

Tee Reduction Connector with 400 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing

**T230R220 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing

**T430R420 (-1 -2 -6 -J1A)**

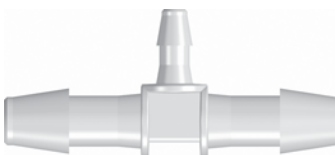
Tee Reduction Connector with 400 Series Barbs, 1/8" (3.2 mm) and 3/32" (2.4 mm) ID Tubing

**T360/220 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 and 300 Series Barbs, 1/4" (6.4 mm) and 3/32" (2.4 mm) ID Tubing

**T360/230 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 and 300 Series Barbs, 1/4" (6.4 mm) and 1/8" (3.2 mm) ID Tubing

**T360/250 (-1 -2 -6 -9 -J1A)**

Tee Reduction Connector with 200 and 300 Series Barbs, 1/4" (6.4 mm) and 3/16" (4.8 mm) ID Tubing



LARGER TEE REDUCERS - For larger Tee Reducers for 3/8" to 1" IDs refer to page 48...

Material Suffix Key

-1 White Nylon

-4 Green Nylon

-6 Natural Polypropylene

-9 Clear Polycarbonate

-10 Acetal

-5 Blue Nylon

-6005 Animal-Free Polypropylene

-9002 Radiation Stable Polycarbonate

-2 Black Nylon

-06 Orange Nylon

-8003 Natural ABS

-J1A Natural Kynar PVDF

-3 Red Nylon

-07 Yellow Nylon

-81 Lace White ABS

Y210 (-1 -2 -6 -9 -J1A)

Y Connector with 200 Series Barbs, 1/16" (1.6 mm) ID Tubing

**Y410 (-1 -2 -6 -J1A)**

Y Connector with 400 Series Barbs, 1/16" (1.6 mm) ID Tubing

**Y220 (-1 -2 -6 -9 -J1A)**

Y Connector with 200 Series Barbs, 3/32" (2.4 mm) ID Tubing

**Y420 (-1 -2 -6 -J1A)**

Y Connector with 400 Series Barbs, 3/32" (2.4 mm) ID Tubing

**Y230 (-1 -2 -3 -6 -9 -J1A)**

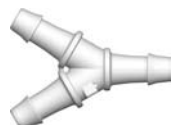
Y Connector with 200 Series Barbs, 1/8" (3.2 mm) ID Tubing

**Y430 (-1 -2 -6 -J1A)**

Y Connector with 400 Series Barbs, 1/8" (3.2 mm) ID Tubing

**Y013 (-6005)**

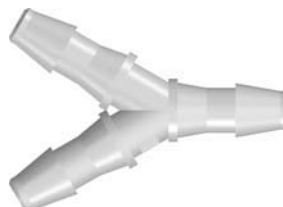
Y Connector with 500 Series Barbs, 1/8" (3.2 mm) ID Tubing

**Y240 (-1 -2 -6 -9 -J1A)**

Y Connector with 200 Series Barbs, 5/32" (4.0 mm) ID Tubing

**Y250 (-1 -2 -6 -9 -9002 -J1A)**

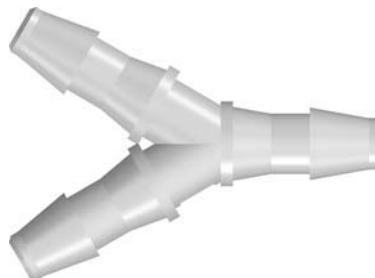
Y Connector with 200 Series Barbs, 3/16" (4.8 mm) ID Tubing

**Y450 (-1 -2 -6 -J1A)**

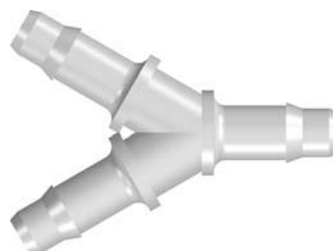
Y Connector with 400 Series Barbs, 3/16" (4.8 mm) ID Tubing

**Y260 (-1 -2 -6 -9 -9002 -J1A)**

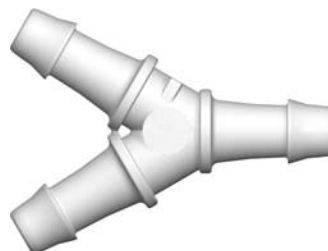
Y Connector with 200 Series Barbs, 1/4" (6.4 mm) ID Tubing

**Y460 (-1 -2 -6 -9 -J1A)**

Y Connector with 400 Series Barbs, 1/4" (6.4 mm) ID Tubing

**Y055 (-6005)**

Y Connector with 500 Series Barbs, 1/4" (6.4 mm) ID Tubing



Material Suffix Key

-1 White Nylon
 -4 Green Nylon
 -6 Natural Polypropylene
 -9 Clear Polycarbonate

-10 Acetal
 -5 Blue Nylon
 -6005 Animal-Free Polypropylene
 -9002 Radiation Stable Polycarbonate

-2 Black Nylon
 -06 Orange Nylon
 -8003 Natural ABS
 -J1A Natural Kynar PVDF

-3 Red Nylon
 -07 Yellow Nylon
 -81 Lace White ABS

3PF210 (-1 -6)

Three-port F Style Manifold with 200 Series Barbs for 1/16" (1.6 mm) ID Tubing


3PF220 (-1 -6)

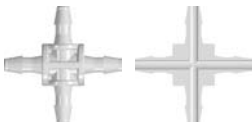
Three-port F Style Manifold with 200 Series Barbs for 3/32" (2.4 mm) ID Tubing


3PF230 (-1 -6)

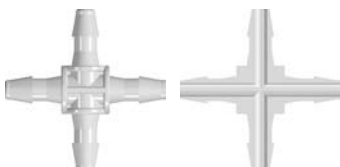
Three-port F Style Manifold with 200 Series Barbs for 1/8" (3.2 mm) ID Tubing


4PX210 (-1 -6)

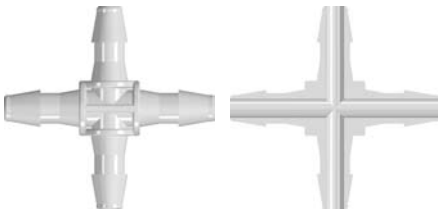
Four-port Cross Style Manifold with 200 Series Barbs for 1/16" (1.6 mm) ID Tubing


4PX220 (-1 -6)

Four-port Cross Style Manifold with 200 Series Barbs for 3/32" (2.4 mm) ID Tubing


4PX230 (-1 -6)

Four-port Cross Style Manifold with 200 Series Barbs for 1/8" (3.2 mm) ID Tubing


4PDL210 (-1 -6)

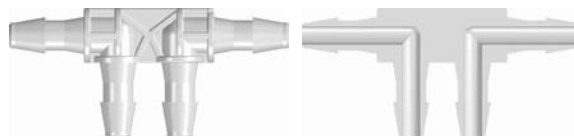
Four-port Double Elbow Style Manifold with 200 Series Barbs, 1/16" (1.6 mm) ID Tubing


4PDL220 (-1 -6)

Four-port Double Elbow Style Manifold with 200 Series Barbs, 3/32" (2.4 mm) ID Tubing


4PDL230 (-1 -6)

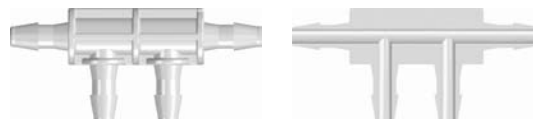
Four-port Double Elbow Style Manifold with 200 Series Barbs, 1/8" (3.2 mm) ID Tubing


4PLL210 (-1 -6)

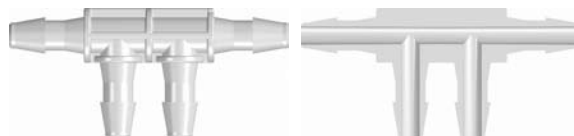
Four-port Thru Flow Double Elbow Style Manifold with 200 Series Barbs, 1/16" (1.6 mm) ID Tubing


4PLL220 (-1 -6)

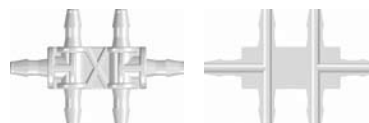
Four-port Thru Flow Double Elbow Style Manifold with 200 Series Barbs, 3/32" (2.4 mm) ID Tubing


4PLL230 (-1 -2 -6)

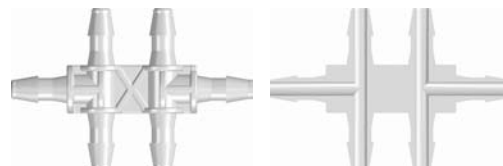
Four-port Thru Flow Double Elbow Style Manifold with 200 Series Barbs, 1/8" (3.2 mm) ID Tubing


6PDT210 (-1 -6)

Six-port Double T Style Manifold with 200 Series Barbs for 1/16" (1.6 mm) ID Tubing


6PDT220 (-1 -6)

Six-port Double T Style Manifold with 200 Series Barbs for 3/32" (2.4 mm) ID Tubing



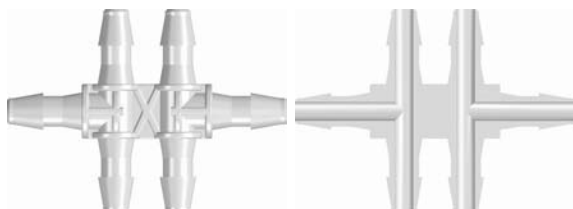
Material Suffix Key

-1 White Nylon
 -4 Green Nylon
 -6 Natural Polypropylene
 -9 Clear Polycarbonate
 -10 Acetal
 -5 Blue Nylon
 -6005 Animal-Free Polypropylene
 -9002 Radiation Stable Polycarbonate

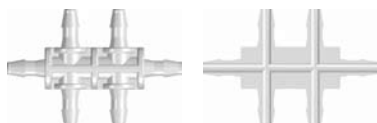
-2 Black Nylon
 -06 Orange Nylon
 -8003 Natural ABS
 -J1A Natural Kynar PVDF
 -3 Red Nylon
 -07 Yellow Nylon
 -81 Lace White ABS

6PDT230 (-1 -6)

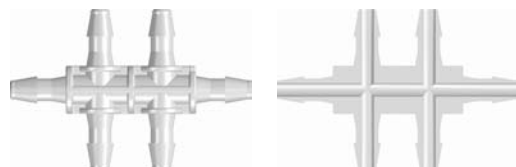
Six-port Double T Style Manifold with 200 Series Barbs for 1/8" (3.2 mm) ID Tubing


6PTT210 (-1 -6)

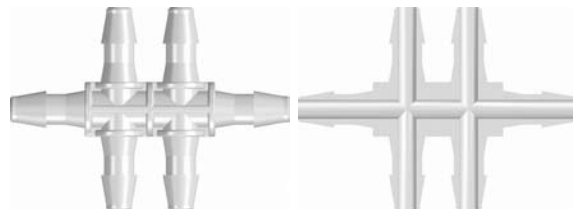
Six-port Thru Flow Double T Style Manifold with 200 Series Barbs for 1/16" (1.6 mm) ID Tubing


6PTT220 (-1 -6)

Six-port Thru Flow Double T Style Manifold with 200 Series Barbs for 3/32" (2.4 mm) ID Tubing


6PTT230 (-1 -6)

Six-port Thru Flow Double T Style Manifold with 200 Series Barbs for 1/8" (3.2 mm) ID Tubing


PIP210 (-1 -2 -6 -J1A)

Press-In Plug with 200 Series Barb, 1/16" (1.6 mm) ID Tubing


PIP10 (-1 -2 -6 -J1A)

Press-In Plug with Classic Series Barb, 1/16" (1.6 mm) ID Tubing


PIP220 (-1 -2 -6 -J1A)

Press-In Plug with 200 Series Barb, 3/32" (2.4 mm) ID Tubing


PIP20 (-1 -2 -6 -J1A)

Press-In Plug with Classic Series Barb, 3/32" (2.4 mm) ID Tubing


PIP230 (-1 -2 -6 -J1A)

Press-In Plug with 200 Series Barb, 1/8" (3.2 mm) ID Tubing


PIP30 (-1 -2 -6 -J1A)

Press-In Plug with Classic Series Barb, 1/8" (3.2 mm) ID Tubing


PIP240 (-1 -2 -6 -J1A)

Press-In Plug with 200 Series Barb, 5/32" (4.0 mm) ID Tubing


PIP40 (-1 -2 -6 -J1A)

Press-In Plug with Classic Series Barb, 5/32" (4.0 mm) ID Tubing


PIP50 (-1 -2 -6 -J1A)

Press-In Plug with Classic Series Barb, 3/16" (4.8 mm) ID Tubing


PIP60 (-1 -2 -6 -J1A)

Press-In Plug with Classic Series Barb, 1/4" (6.4 mm) ID Tubing



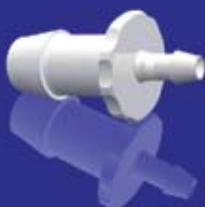
LARGE TUBE-TO-TUBE



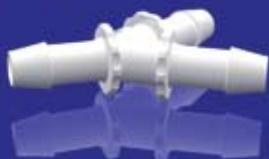
STRAIGHT THROUGH
PG-49



**STRAIGHT THROUGH
REDUCER**
PG-50



Y
PG-51



PRESS-IN PLUGS
PG-51



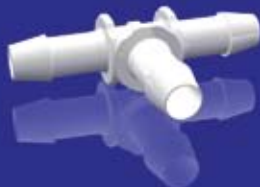
ELBOW
PG-52



ELBOW REDUCER
PG-52



TEE
PG-53



TEE REDUCER
PG-53



LARGE TUBE-TO-TUBE

Large tube-to-tube fittings encompass sizes fitting tubing IDs between 3/8" (9.5 mm) and 1.0" (25.4 mm). They are available from stock in 3 barb styles, most commonly in animal-free and natural polypropylene and polycarbonate resins, with PVDF available as an option and other materials available on special order.

AVAILABLE BARB STYLES

Tube ID	500 Series	600 Series	900 Series
3/8" (9.5 mm)	X	X	X
1/2" (12.7 mm)	X	X	X
5/8" (16.0 mm)	X	X	
3/4" (19.0 mm)	X	X	
1" (25.4 mm)	X	X	

LARGE TUBE-TO-TUBE: Straight Through

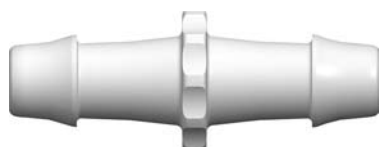
Material Suffix Key

-0 Natural Nylon
-J1A Natural Kynnar PVDF

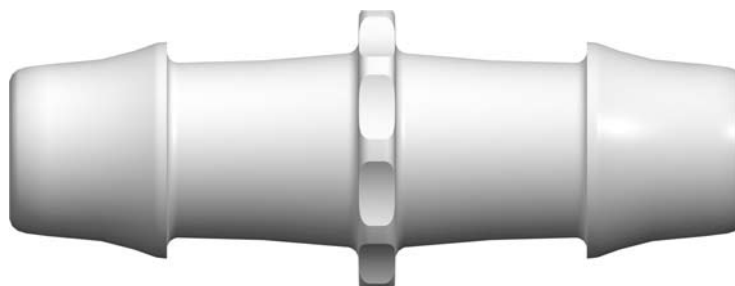
-6 Natural Polypropylene

-6005 Animal-Free Polypropylene

-9002 Radiation Stable Polycarbonate



SHOWN: N070



SHOWN: N110

Minimum package quantities vary by tube IDs, please verify minimum package sizes when placing orders

N070 (-0 -6 -9)

Straight Through Connector with 500 Series Barbs, 3/8" (9.5 mm) ID Tubing

N090 (-0 -6 -9)

Straight Through Connector with 500 Series Barbs, 5/8" (16.0 mm) ID Tubing

N670 (-6 -6005 -9 -J1A)

Straight Through Connector with 600 Series Barbs, 3/8" (9.5 mm) ID Tubing

N690 (-0 -6 -9)

Straight Through Connector with 600 Series Barbs, 5/8" (16.0 mm) ID Tubing

N970 (-9)

Straight Through Connector with 900 Series Barbs, 3/8" (9.5 mm) ID Tubing

N100 (-0 -6)

Straight Through Connector with 500 Series Barbs, 3/4" (19.0 mm) ID Tubing

N080 (-0 -6 -9)

Straight Through Connector with 500 Series Barbs, 1/2" (12.7 mm) ID Tubing

N110 (-0 -6)

Straight Through Connector with 500 Series Barbs, 1" (25.4 mm) ID Tubing

N680 (-6 -9 -J1A)

Straight Through Connector with 600 Series Barbs, 1/2" (12.7 mm) ID Tubing

N975 (-9)

Straight Through Connector with 900 Series Barbs, 1/2" (12.7 mm) ID Tubing



our online ordering for component parts, now available 24 hours a day, 7 days a week, with no \$ minimums! You can find every catalog part at:

www.valueplastics.com

(Online ordering is not available in countries served by our regional partners)

Material Suffix Key

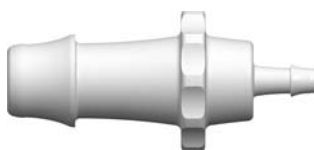
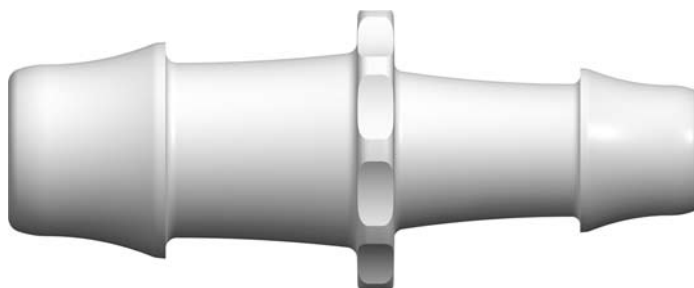
-0 Natural Nylon

-J1A Natural Kynnar PVDF

-6 Natural Polypropylene

-6005 Animal-Free Polypropylene

-9002 Radiation Stable Polycarbonate


SHOWN: N070/013

SHOWN: N110/100

Minimum package quantities vary by tube IDs, please verify minimum package sizes when placing orders

N070/013 (-0 -6 -9 -9002 -J1A)

Straight Through Reduction Connector with 500 Series Barbs, 3/8" (9.5 mm) and 1/8" (3.2 mm) ID Tubing

N070/055 (-0 -6 -9)

Straight Through Reduction Connector with 500 Series Barbs, 3/8" (9.5 mm) and 1/4" (6.4 mm) ID Tubing

N670/655 (-6 -6005 -9 -J1A)

Straight Through Reduction Connector with 600 Series Barbs, 3/8" (9.5 mm) and 1/4" (6.4 mm) ID Tubing

N080/055 (-0 -6 -9)

Straight Through Reduction Connector with 500 Series Barbs, 1/2" (12.7 mm) and 1/4" (6.4 mm) ID Tubing

N680/655 (-6 -9 -J1A)

Straight Through Reduction Connector with 600 Series Barbs, 1/2" (12.7 mm) and 1/4" (6.4 mm) ID Tubing

N090/055 (-0 -6)

Straight Through Reduction Connector with 500 Series Barbs, 5/8" (16.0 mm) and 1/4" (6.4 mm) ID Tubing

N680/670 (-6 -9)

Straight Through Reduction Connector with 600 Series Barbs, 1/2" (12.7 mm) and 3/8" (9.5 mm) ID Tubing

N080/070 (-0 -6 -9)

Straight Through Reduction Connector with 500 Series Barbs, 1/2" (12.7 mm) and 3/8" (9.5 mm) ID Tubing

N690/655 (-6 -9)

Straight Through Reduction Connector with 600 Series Barbs, 5/8" (16.0 mm) and 1/4" (6.4 mm) ID Tubing

N090/070 (-0 -6)

Straight Through Reduction Connector with 500 Series Barbs, 5/8" (16.0 mm) and 3/8" (9.5 mm) ID Tubing

N690/670 (-6 -9)

Straight Through Reduction Connector with 600 Series Barbs, 5/8" (16.0 mm) and 3/8" (9.5 mm) ID Tubing

N100/080 (-0 -6)

Straight Through Reduction Connector with 500 Series Barbs, 3/4" (19.0 mm) and 1/2" (12.7 mm) ID Tubing

N6110/6100 (-6 -9)

Straight Through Reduction Connector with 600 Series Barbs, 1" (25.4 mm) and 3/4" (19.0 mm) ID Tubing

N110/100 (-0 -6)

Straight Through Reduction Connector with 500 Series Barbs, 1" (25.4 mm) and 3/4" (19.0 mm) ID Tubing

LARGE TUBE-TO-TUBE:

Y

Material Suffix Key

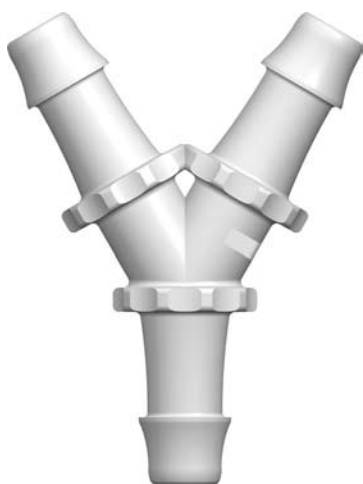
-0 Natural Nylon

-J1A Natural Kynnar PVDF

-6 Natural Polypropylene

-6005 Animal-Free Polypropylene

-9002 Radiation Stable Polycarbonate



SHOWN: Y070



SHOWN: Y110

Minimum package quantities vary by tube IDs, please verify minimum package sizes when placing orders

Y070 (-0 -6 -9)

Y Connector with 500 Series Barbs, 3/8" (9.5 mm) ID Tubing

Y670 (-6 -9)

Y Connector with 600 Series Barbs, 3/8" (9.5 mm) ID Tubing

Y080 (-0 -6 -9)

Y Connector with 500 Series Barbs, 1/2" (12.7 mm) ID Tubing

Y680 (-6 -9)

Y Connector with 600 Series Barbs, 1/2" (12.7 mm) ID Tubing

Y090 (-0 -6 -J1A)

Y Connector with 500 Series Barbs, 5/8" (16.0 mm) ID Tubing

Y100 (-0 -6 -J1A)

Y Connector with 500 Series Barbs, 3/4" (19.0 mm) ID Tubing

Y110 (-0 -6)

Y Connector with 500 Series Barbs, 1" (25.4 mm) ID Tubing

LARGE TUBE-TO-TUBE:

Press-In Plugs

PIP070 (-0 -6)

Press-In Plug with 500 Series Barb, 3/8" (9.5 mm) ID Tubing

**PIP080 (-6)**

Press-In Plug with 500 Series Barb, 1/2" (12.7 mm) ID tubing

LARGE TUBE-
TO-TUBE

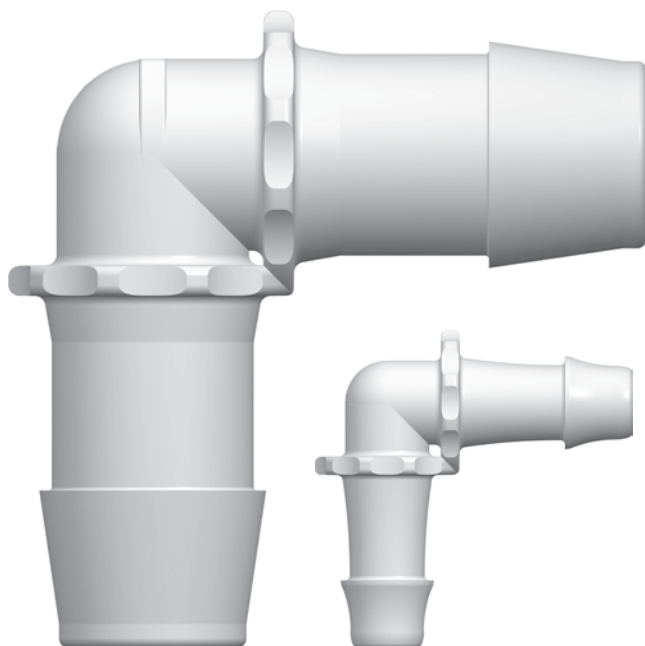
Material Suffix Key

-0 Natural Nylon
 -11A Natural Kynnar PVDF

-6 Natural Polypropylene

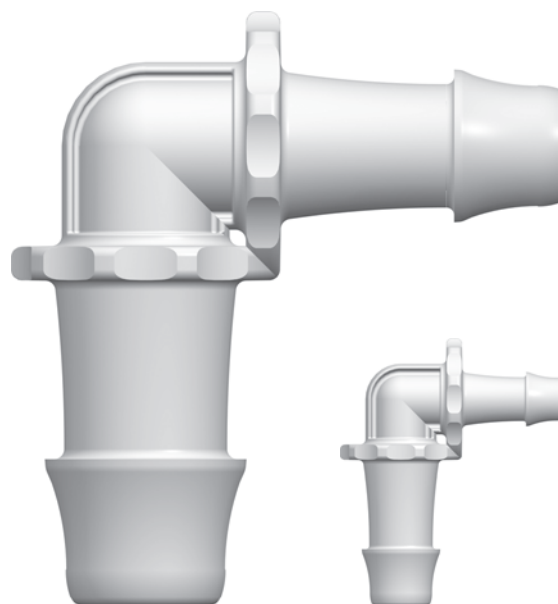
-6005 Animal-Free Polypropylene

-9002 Radiation Stable Polycarbonate



SHOWN: L6110

SHOWN: L070



SHOWN: L110/100

SHOWN: L070/055

Minimum package quantities vary by tube IDs, please verify minimum package sizes when placing orders

L070 (-0 -6)

Elbow Connector with 500 Series Barbs, 3/8" (9.5 mm) ID Tubing

L970 (-9)

Elbow Connector with 900 Series Barbs, 3/8" (9.5 mm) ID Tubing

L080 (-0 -6)

Elbow Connector with 500 Series Barbs, 1/2" (12.7 mm) ID Tubing

L975 (-9)

Elbow Connector with 900 Series Barbs, 1/2" (12.7 mm) ID Tubing

L090 (-0 -6)

Elbow Connector with 500 Series Barbs, 5/8" (16.0 mm) ID Tubing

L100 (-0 -6)

Elbow Connector with 500 Series Barbs, 3/4" (19.0 mm) ID Tubing

L110 (-0 -6)

Elbow Connector with 500 Series Barbs, 1" (25.4 mm) ID Tubing

L6110 (-6)

Elbow Connector with 600 Series Barbs, 1" (25.4 mm) ID Tubing

CF494 (-6)

Low-profile Elbow Connector with Custom 600 Series Barbs, 1" (25.4 mm) ID Tubing

Minimum package quantities vary by tube IDs, please verify minimum package sizes when placing orders

L070/055 (-0 -6)

Elbow Reduction Connector with 500 Series Barbs, 3/8" (9.5 mm) and 1/4" (6.4 mm) ID Tubing

L080/070 (-0 -6)

Elbow Reduction Connector with 500 Series Barbs, 1/2" (12.7 mm) and 3/8" (9.5 mm) ID Tubing

L100/080 (-0 -6)

Elbow Reduction Connector with 500 Series Barbs, 3/4" (19.0 mm) and 1/2" (12.7 mm) ID Tubing

L110/100 (-0 -6)

Elbow Reduction Connector with 500 Series Barbs, 1" (25.4 mm) and 3/4" (19.0 mm) ID Tubing

LINE DRAWINGS

Value Plastics provides dimensional drawings for all its fittings. For further information, visit our website at www.valueplastics.com.

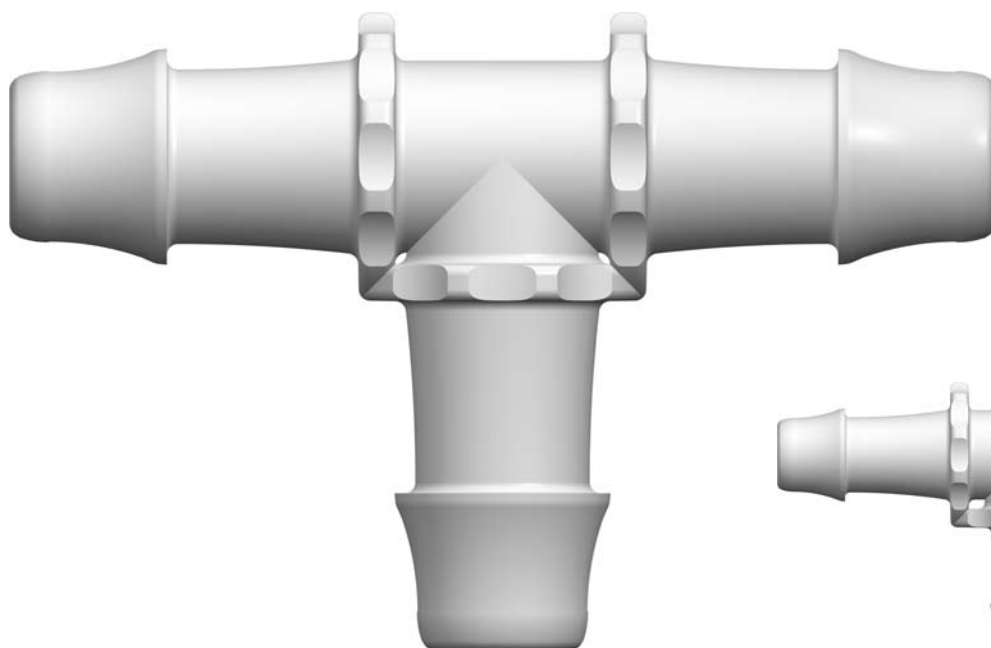
Material Suffix Key

-0 Natural Nylon
-J1A Natural Kynnar PVDF

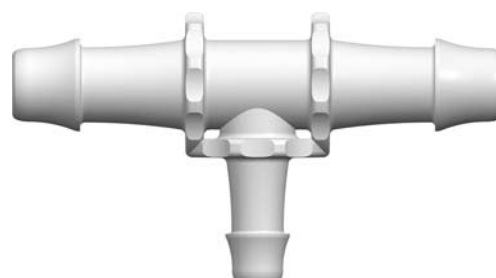
-6 Natural Polypropylene

-6005 Animal-Free Polypropylene

-9002 Radiation Stable Polycarbonate



SHOWN: T110



SHOWN: T070/055

Minimum package quantities vary by tube IDs, please verify minimum package sizes when placing orders

T070 (-0 -6 -9)

Tee Connector with 500 Series Barbs, 3/8" (9.5 mm) ID Tubing

T670 (-1 -6 -6005 -9 -J1A)

Tee Connector with 600 Series Barbs, 3/8" (9.5 mm) ID Tubing

T970 (-9)

Tee Connector with 900 Series Barbs, 3/8" (9.5 mm) ID Tubing

T080 (-0 -6 -9)

Tee Connector with 500 Series Barbs, 1/2" (12.7 mm) ID Tubing

T680 (-6 -9 -J1A)

Tee Connector with 600 Series Barbs, 1/2" (12.7 mm) ID Tubing

T975 (-9)

Tee Connector with 900 Series Barbs, 1/2" (12.7 mm) ID Tubing

T690 (-6 -9)

Tee Connector with 500 Series Barbs, 5/8" (16.0 mm) ID Tubing

T100 (-0 -6 -9)

Tee Connector with 500 Series Barbs, 3/4" (19.0 mm) ID Tubing

T110 (-0 -6)

Tee Connector with 500 Series Barbs, 1" (25.4 mm) ID Tubing

Minimum package quantities vary by tube IDs, please verify minimum package sizes when placing orders

T070/055 (-0 -6 -9)

Tee Reduction Connector with 500 Series Barbs, 3/8" (9.5 mm) and 1/4" (6.4 mm) ID Tubing

T080/055 (-0 -6 -9)

Tee Reduction Connector with 500 Series Barbs, 1/2" (12.7 mm) and 1/4" (6.4 mm) ID Tubing

T080/070 (-0 -6 -9)

Tee Reduction Connector with 500 Series Barbs, 1/2" (12.7 mm) and 3/8" (9.5 mm) ID Tubing

T100/080 (-0 -6 -9)

Tee Reduction Connector with 500 Series Barbs, 3/4" (19.0 mm) and 1/2" (12.7 mm) ID Tubing

T110/100 (-0 -6)

Tee Reduction Connector with 500 Series Barbs, 1" (25.4 mm) and 3/4" (19.0 mm) ID Tubing

THREADED



**10-32 UNF
PG-55**

**1/4-28 UNF
PG-58**

**1/4-28 UNF BOTTOM SEALING
PG-59**

**METRIC - M6x1
PG-60**

**METRIC - M5x.8
PG-60**

**1/16-27 NPT
PG-61**

**1/8-27 NPT
PG-62**

**1/4-18 NPT
PG-63**

**CUSTOM THREADED FITTINGS
PG-35**

VALUE PLASTICS THREAD SERIES

The X Thread

Value Plastics® X Series components have a tapered 10-32 thread that functions like a pipe thread. In comparison to standard 10-32 UNF threaded fittings, the tapered design works better with oversized ports and ports which are not perpendicular to the face of the component.

The 120 degree chamfer under the hex provides a seal when the fitting is tightened into a port with a countersink as shown below. It also seals on the thread due to interference on the pitch diameter. When using an elbow or tee, the tapered thread tightens radially and facilitates directional alignment of the barb.

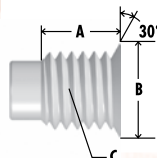
Other Thread Series

K, B, C and D Series fittings, designed for use with 10-32 UNF ports, are straight-threaded components. These fittings seal against the 120 degree chamfer under the hex on the fitting and do not tighten radially as they are assembled. S Series fittings are straight threaded components for 1/4-28 UNF ports, M5 Series are for M5 x .8 ports and M6 Series are for M6 x 1 ports. Part numbers for fittings with pipe threads are noted below. Those for use with 1/16-27 NPT ports have part numbers prefixed with 16; those for 1/8-27 NPT ports have part numbers prefixed with 18; and those for 1/4-18 NPT ports have part numbers prefixed with 14.

The features shown below must be incorporated into the port when using our B, C, D, X, K, S, M5 and M6 Series fittings. Failure to do so will jeopardize the performance of the seal between the fitting and port. For applications in which this seal is highly critical, we recommend that you contact a sealant specialist.

When working with threaded parts, Value Plastics strongly recommends that you test sample parts in your application.

Value Plastics® Thread Series	Dimension A Thread Length	Clearance Needed to Achieve Chamfer Seal	Dimension B Countersink Diameter	Feature C Internal Screw Thread Series
X	.200"	.250"	.210"-.230"	10-32 UNF 2B
K, B, C, D	.156"	.200"	.210"-.230"	10-32 UNF 2B
S	.204"	.250"	.270"-.290"	1/4-28 UNF 2B
M5	.192"	.250"	.210"-.230"	M5 X .8
M6	.235"	.375"	.270"-.290"	M6 X 1



THREAD:**10-32 UNF, Special Tapered Thread****Material Suffix Key**

-1 White Nylon
-4 Green Nylon
-6 Natural Polypropylene
-9 Clear Polycarbonate

-10 Acetal
-5 Blue Nylon
-6005 Animal-Free Polypropylene
-9002 Radiation Stable Polycarbonate

-2 Black Nylon
-06 Orange Nylon
-8003 Natural ABS
-J1A Natural Kynar PVDF

-3 Red Nylon
-07 Yellow Nylon
-81 Lace White ABS

X210 (-1 -2 -3 -5 -6 -J1A)

10-32 Special Tapered Thread with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**K210 (-1 -2 -3 -5 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**X410 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing

**K410 (-1 -2 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing

**X10 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread with 1/4" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing

**K10 (-1 -2 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing

**X220 (-1 -2 -3 -6 -J1A)**

10-32 Special Tapered Thread with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**K220 (-1 -2 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**X420 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing

**K420 (-1 -2 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing

**D (-1 -2 -3 -4 -5 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to Classic Series Barb, 3/32" (2.4 mm) ID Tubing

**X230 (-1 -2 -3 -5 -6 -J1A)**

10-32 Special Tapered Thread with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**K230 (-1 -2 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**X430 (-1 -2 -3 -6 -J1A)**

10-32 Special Tapered Thread with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing

**K430 (-1 -2 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing

**B (-1 -2 -3 -4 -5 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to Classic Series Barb, 1/8" (3.2 mm) ID Tubing

**C (-1 -2 -3 -4 -5 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to Classic Series Barb, Short Neck, 1/8" (3.2 mm) ID Tubing

**K240 (-1 -2 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing

**X445 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread with 1/4" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing

**K445 (-1 -2 -6 -J1A)**

10-32 UNF Thread with 1/4" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing

**X240 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread with 1/4" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



THREADED

THREAD:**10-32 UNF, Special Tapered Thread Elbow****Material Suffix Key**

-1 White Nylon

-4 Green Nylon

-6 Natural Polypropylene

-9 Clear Polycarbonate

-10 Acetal

-5 Blue Nylon

-6005 Animal-Free Polypropylene

-9002 Radiation Stable Polycarbonate

-2 Black Nylon

-06 Orange Nylon

-8003 Natural ABS

-J1A Natural Kynar PVDF

-3 Red Nylon

-07 Yellow Nylon

-81 Lace White ABS

XL210 (-1 -2 -6 -J1A)

10-32 Special Tapered Thread Elbow with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**KL210 (-1 -2 -6 -J1A)**

10-32 UNF Thread Elbow with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**XL410 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Elbow with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing

**KL410 (-1 -2 -6 -J1A)**

10-32 UNF Thread Elbow with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing

**XL220 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Elbow with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**KL220 (-1 -2 -6 -J1A)**

10-32 UNF Thread Elbow with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**XL420 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Elbow with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing

**XL420 (-1 -2 -6 -J1A)**

10-32 UNF Thread Elbow with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing

**XL230 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Elbow with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**KL230 (-1 -2 -6 -J1A)**

10-32 UNF Thread Elbow with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**XL430 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Elbow with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing

**KL430 (-1 -2 -6 -J1A)**

10-32 UNF Thread Elbow with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing

**TECHNICAL ASSISTANCE**

Trying to choose the correct part? Need more material information than is published in this catalog? Call Value Plastics Technical Support for assistance at 970-267-5200.

THREAD:**10-32 UNF, Special Tapered Thread Tee****Material Suffix Key**

-1 White Nylon
 -4 Green Nylon
 -6 Natural Polypropylene
 -9 Clear Polycarbonate

-10 Acetal
 -5 Blue Nylon
 -6005 Animal-Free Polypropylene
 -9002 Radiation Stable Polycarbonate

-2 Black Nylon
 -06 Orange Nylon
 -8003 Natural ABS
 -J1A Natural Kynar PVDF

-3 Red Nylon
 -07 Yellow Nylon
 -81 Lace White ABS

XT210 (-1 -2 -6 -J1A)

10-32 Special Tapered Thread Tee with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**KT210 (-1 -2 -6 -J1A)**

10-32 UNF Thread Tee with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**XT410 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Tee with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing

**KT410 (-1 -2 -6 -J1A)**

10-32 UNF Thread Tee with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing

**XT220 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Tee with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**KT220 (-1 -2 -6 -J1A)**

10-32 UNF Thread Tee with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**XT420 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Tee with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing

**KT420 (-1 -2 -6 -J1A)**

10-32 UNF Thread Tee with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing

**XT230 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Tee with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**KT230 (-1 -2 -6 -J1A)**

10-32 UNF Thread Tee with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**XT430 (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Tee with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing

**KT430 (-1 -2 -6 -J1A)**

10-32 UNF Thread Tee with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing

**LINE DRAWINGS**

Value Plastics provides line drawings for all its fittings. For further information, visit our website at www.valueplastics.com.



our online ordering for component parts, now available 24 hours a day, 7 days a week, with no \$ minimums! You can find every catalog part at:

www.valueplastics.com

(Online ordering is not available in countries served by our regional partners)

THREAD:**10-32 UNF, Special Tapered Thread Couplers and Plugs****THREAD:****1/4-28 UNF****Material Suffix Key**

-1 White Nylon

-4 Green Nylon

-6 Natural Polypropylene

-9 Clear Polycarbonate

-10 Acetal

-5 Blue Nylon

-6005 Animal-Free Polypropylene

-9002 Radiation Stable Polycarbonate

-2 Black Nylon

-06 Orange Nylon

-8003 Natural ABS

-J1A Natural Kynar PVDF

-3 Red Nylon

-07 Yellow Nylon

-81 Lace White ABS

XN (-1 -2 -6 -J1A)

10-32 Special Tapered Thread Coupler with 1/4" Hex

**KN (-1 -2 -6 -J1A)**

10-32 UNF Thread Coupler with 1/4" Hex

**XP (-1 -2 -6 -J1A)**

10-32 Special Tapered Thread Plug with 1/4" Hex

**KP (-1 -2 -6 -J1A)**

10-32 UNF Thread Plug with 1/4" Hex

**S210 (-1 -2 -6 -J1A)**

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**S410 (-1 -2 -6 -J1A)**

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing

**S10 (-1 -2 -6 -J1A)**

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing

**S220 (-1 -2 -6 -J1A)**

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**S420 (-1 -2 -6 -J1A)**

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing

**S20 (-1 -2 -6 -J1A)**

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 3/32" (2.4 mm) ID Tubing

**S230 (-1 -2 -6 -J1A)**

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**S430 (-1 -2 -6 -J1A)**

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing

**LOOKING FOR SOMETHING DIFFERENT?**

Most of our best product ideas have come from you, our customers. While we pride ourselves on our extensive product offering, we recognize that your needs are ever-changing and that our products, too, must adapt to your new needs.

If there's a new product you think Value Plastics should make, drop an email to designcenter@valueplastics.com or fax 970-267-3578 to the attention of Design Center, describing your product concept in as much detail as you desire. We will contact you with any questions, and who knows — the next catalog edition could include products YOU told us to build!

See page 32 for more information on the Value Plastics Design Center.

**VALUE PLASTICS
DESIGN CENTER**

THREAD:
1/4-28 UNF

THREAD:
1/4-28 UNF Bottom Sealing

Material Suffix Key

-1 White Nylon
-4 Green Nylon
-6 Natural Polypropylene
-9 Clear Polycarbonate

-10 Acetal
-5 Blue Nylon
-6005 Animal-Free Polypropylene
-9002 Radiation Stable Polycarbonate

-2 Black Nylon
-06 Orange Nylon
-8003 Natural ABS
-J1A Natural Kynar PVDF

-3 Red Nylon
-07 Yellow Nylon
-81 Lace White ABS

S30 (-1 -2 -6 -J1A)

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 1/8" (3.2 mm) ID Tubing



S240 (-1 -2 -6 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



S40 (-1 -2 -6 -J1A)

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 5/32" (4.0 mm) ID Tubing



S445 (-1 -2 -6 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing



S250 (-1 -2 -6 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing



S450 (-1 -2 -6 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, 3/16" (4.8 mm) ID Tubing



S50 (-1 -2 -6 -J1A)

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 3/16" (4.8 mm) ID Tubing



SP (-1 -2 -6 -J1A)

1/4-28 UNF Thread Plug with 5/16" Hex



ABR002-J1A OVER (-J1A)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 1/16" (1.6 mm) ID Tubing



ABR004-6 OVER (-1 -2 -3 -4 -5)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 1/16" (1.6 mm) ID Tubing



Recommended torque:
Polypropylene - 1.5-2 in. lbs.
Kynar - 2-4 in. lbs.

ABR004-J1A OVER (-1 -2 -3 -4 -5 -J1A)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 1/16" (1.6 mm) ID Tubing



Recommended torque:
Polypropylene - 1.5-2 in. lbs.
Kynar - 2-4 in. lbs.

ABR007-6 OVER (-1 -2 -3 -4 -5)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 3/32" (2.4 mm) ID Tubing



Recommended torque:
Polypropylene - 1.5-2 in. lbs.
Kynar - 2-4 in. lbs.

ABR007-J1A OVER (-1 -2 -3 -4 -5 -J1A)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 3/32" (2.4 mm) ID Tubing



Recommended torque:
Polypropylene - 1.5-2 in. lbs.
Kynar - 2-4 in. lbs.

ABR013-6 OVER (-1 -2 -3 -4 -5)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 1/8" (3.2 mm) ID Tubing



Recommended torque:
Polypropylene - 1.5-2 in. lbs.
Kynar - 2-4 in. lbs.

ABR013-J1A OVER (-1 -2 -3 -4 -5 -J1A)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 1/8" (3.2 mm) ID Tubing



Recommended torque:
Polypropylene - 1.5-2 in. lbs.
Kynar - 2-4 in. lbs.

TECS116 (-6 -J1A)

1/4-28 UNF Bottom Sealing Thread Tube End Coupler with 5/16" Hex, 1/16" (1.6 mm) OD Tubing



TECS118 (-6 -J1A)

1/4-28 UNF Bottom Sealing Thread Tube End Coupler with 5/16" Hex, 1/8" (3.2 mm) OD Tubing



THREADED

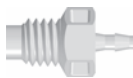
THREAD:
M6x1
THREAD:
M6x1
Material Suffix Key

-1 White Nylon
 -4 Green Nylon
 -6 Natural Polypropylene
 -9 Clear Polycarbonate
 -10 Acetal
 -5 Blue Nylon
 -6005 Animal-Free Polypropylene
 -9002 Radiation Stable Polycarbonate

-2 Black Nylon
 -06 Orange Nylon
 -8003 Natural ABS
 -J1A Natural Kynar PVDF
 -3 Red Nylon
 -07 Yellow Nylon
 -81 Lace White ABS

M6210 (-1 -2 -6)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing


M6250 (-1 -2 -6 -J1A)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing


M6410 (-1 -2 -6 -J1A)

M6x1 Thread with 5/16" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing


M6450 (-1 -2 -6 -J1A)

M6x1 Thread with 5/16" Hex to 400 Series Barb, 3/16" (4.8 mm) ID Tubing


M6220 (-1 -2 -6 -J1A)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing


M6P (-1 -2 -6 -J1A)

M6x1 Thread Plug with 5/16" Hex


M6420 (-1 -2 -6 -J1A)

M6x1 Thread with 5/16" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing


THREAD:
M5x.8
M5210 (-1 -2 -6)

M5x.8 Thread with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing


M6230 (-1 -2 -6 -J1A)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing


M5220 (-1 -2 -6)

M5x.8 Thread with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing


M6430 (-1 -2 -6 -J1A)

M6x1 Thread with 5/16" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing


M5230 (-1 -2 -6)

M5x.8 Thread with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing


M6240 (-1 -2 -6 -J1A)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing


M5240 (-1 -2 -6)

M5x.8 Thread with 1/4" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing


M6445 (-1 -2 -6 -J1A)

M6x1 Thread with 5/16" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing


TECHNICAL ASSISTANCE

Trying to choose the correct part? Need more material information than is published in this catalog? Call Value Plastics Technical Support for assistance at 970-267-5200.

Material Suffix Key

-1 White Nylon	-10 Acetal	-2 Black Nylon	-3 Red Nylon
-4 Green Nylon	-5 Blue Nylon	-06 Orange Nylon	-07 Yellow Nylon
-6 Natural Polypropylene	-6005 Animal-Free Polypropylene	-8003 Natural ABS	-81 Lace White ABS
-9 Clear Polycarbonate	-9002 Radiation Stable Polycarbonate	-J1A Natural Kynar PVDF	

16210 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing


16410 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing


1610 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing


16220 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing


16420 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing


1620 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 3/32" (2.4 mm) ID Tubing


16230 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing


16430 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing


1630 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 1/8" (3.2 mm) ID Tubing


16240 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing


1640 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 5/32" (4.0 mm) ID Tubing


16445 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing


16250 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing


16450 (-1 -2 -6 -J1A)

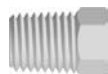
1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, 3/16" (4.8 mm) ID Tubing


1650 (-1 -2 -6 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 3/16" (4.8 mm) ID Tubing


1600 (-1 -2 -6 -J1A)

1/16-27 NPT Thread Plug with 5/16" Hex



Material Suffix Key

-1 White Nylon	-10 Acetal	-2 Black Nylon	-3 Red Nylon
-4 Green Nylon	-5 Blue Nylon	-06 Orange Nylon	-07 Yellow Nylon
-6 Natural Polypropylene	-6005 Animal-Free Polypropylene	-8003 Natural ABS	-81 Lace White ABS
-9 Clear Polycarbonate	-9002 Radiation Stable Polycarbonate	-J1A Natural Kynar PVDF	

18210 (-1 -2 -6 -J1A)

1/8-27 NPT Thread with 7/16" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**18430 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing

**18410 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing

**1830 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 1/8" (3.2 mm) ID Tubing

**1810 (-1 -2 -6 -65 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing

**18240 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing

**18220 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**1840 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 5/32" (4.0 mm) ID Tubing

**18420 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing

**18445 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing

**1820 (-1 -2 -6 -63* -J1A)**

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 3/32" (2.4 mm) ID Tubing



*Red Polypropylene

1850 (-1 -2 -6 -J1A)

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 3/16" (4.8 mm) ID Tubing

**18230 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**1860 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 1/4" (6.4 mm) ID Tubing



THREAD:**1/8-27 NPT Elbow, & Tees****THREAD:****1/8-27 NPT Plugs & Reducers****Material Suffix Key**

-1 White Nylon
 -4 Green Nylon
 -6 Natural Polypropylene
 -9 Clear Polycarbonate
 -10 Acetal
 -5 Blue Nylon
 -6005 Animal-Free Polypropylene
 -9002 Radiation Stable Polycarbonate

-2 Black Nylon
 -06 Orange Nylon
 -8003 Natural ABS
 -J1A Natural Kynar PVDF
 -3 Red Nylon
 -07 Yellow Nylon
 -81 Lace White ABS

18L230 (-1 -2 -6 -J1A)

1/8-27 NPT Thread Elbow with 7/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**18L250 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread Elbow with 7/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing

**18L260 (-1 -2 -6 -J1A)**

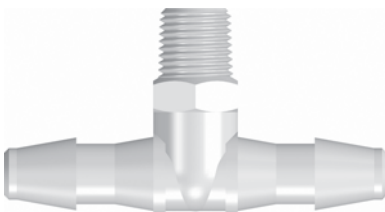
1/8-27 NPT Thread Elbow with 7/16" Hex to 200 Series Barb, 1/4" (6.4 mm) ID Tubing

**18T250 (-1 -2 -6 -J1A)**

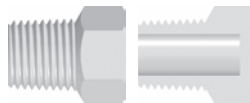
1/8-27 NPT Thread Tee with 7/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing

**18T260 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread Tee with 7/16" Hex to 200 Series Barb, 1/4" (6.4 mm) ID Tubing

**1800 (-1 -2 -6 -J1A)**

1/8-27 NPT Thread Plug with 7/16" Hex

**1801 (-1 -2 -6 -J1A)**

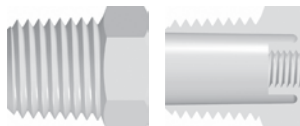
Reducer with 1/8-27 NPT Male Thread and 7/16" Hex to 10-32 UNF Female Thread

**1802 (-1 -2 -6 -J1A)**

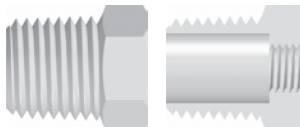
Reducer with 1/8-27 NPT Male Thread and 7/16" Hex to 1/4-28 UNF Female Thread

**THREAD:****1/4-18 NPT****1401 (-1 -2 -6 -J1A)**

Reducer with 1/4-18 NPT Male Thread and 9/16" Hex to 10-32 UNF Female Thread

**1402 (-1 -2 -6 -J1A)**

Reducer with 1/4-18 NPT Male Thread and 9/16" Hex to 1/4-28 UNF Female Thread

**LINE DRAWINGS**

Value Plastics provides line drawings for all its fittings. For further information, visit our website at www.valueplastics.com.

THREADED



JUNCTION BLOCKS PG-65

ACCESSORIES PG-66

BARBS PG-66

THREADS PG-67



Bonding Suggestions

Prior to actually bonding, press together a model of the manifold to use as a reference.

Do not mix plastic resins. Consult your adhesive specialist if you need to bond dissimilar materials.

These components are designed for bonding with any one of a number of solvents, but other adhesive systems may be used. When solvent bonding, use a very small gauge needle (typically 27 or 30) for best solvent control. Consult your adhesive specialist for guidance on other systems.

Apply solvent sparingly. Most solvents are low viscosity and readily wick into the bondline. Excessive solvent may compromise the aesthetics and the function of the assembly.

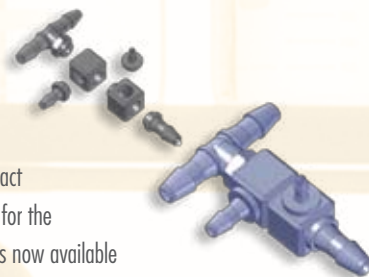
Press the mating components together leaving a .01-.03" gap between them for the solvent. Place the components in an orientation such that they may be rotated ¼ turn to their final position after applying the solvent.

After applying solvent, wait a few seconds, then rotate the components to their final position. When making a long manifold with bondable junction blocks it may be helpful to push the assembly against a flat surface to align the blocks before the solvent has set.

Affordable Unique Solutions:

Design Your New Component with Build-A-Part™ bondable components!

Component designers no longer need be constrained by the limitations of injection molding tool design. The exact fitting, in the optimal layout for the process or product concept, is now available with Value Plastics' line of Build-a-Part™ bondable components, designed for use with gases or liquids.



The Build-a-Part system is based on combining interchangeable components, joining junction blocks and luer, hose barb or threaded features to create the desired configuration. The features are bonded to the junction blocks using commonly available adhesives. Junction blocks and features may be bonded together to create multi-port, multi-axis products that receive and redirect fluid flow in whatever direction the designer desires. The only limitation is the designer's imagination.

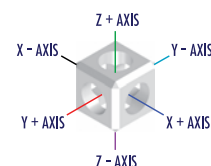
114 component options are available from stock in two materials. Options include ISO 594-1 compliant male and female luers and hose barbs in 1/16" (1.6 mm), 3/32" (2.4 mm) and 1/8" (3.2 mm) in straight, elbow and branch tee configurations. Also available are male threads including 10-32 UNF, 1/16-27 NPT, 1/8-27 NPT, 1/4-28 UNF and M6x1 versions, and mounting devices.

The complete range is available in two resins: white ABS or translucent polysulfone. For ease of testing concepts, Value Plastics offers designer kits in both resins. Each kit contains hundreds of components for prototype purposes, enabling designs to be created and modified prior to production commitment.

BLOCK	NUMBER	MATERIAL
	BDJ01-40	Polysulfone
	BDJ01-81	Lace White ABS
	BDJ02-40	Polysulfone
	BDJ02-81	Lace White ABS
	BDJ03-40	Polysulfone
	BDJ03-81	Lace White ABS
	BDJ04-40	Polysulfone
	BDJ04-81	Lace White ABS
	BDJ05-40	Polysulfone
	BDJ05-81	Lace White ABS
	BDJ06-40	Polysulfone
	BDJ06-81	Lace White ABS
	BDJ07-40	Polysulfone
	BDJ07-81	Lace White ABS
	BDJ08-40	Polysulfone
	BDJ08-81	Lace White ABS
	BDJ09-40	Polysulfone
	BDJ09-81	Lace White ABS
	BDJ10-40	Polysulfone
	BDJ10-81	Lace White ABS
	BDJ11-40	Polysulfone
	BDJ11-81	Lace White ABS
	BDJ12-40	Polysulfone
	BDJ12-81	Lace White ABS
	BDJ13-40	Polysulfone
	BDJ13-81	Lace White ABS
	BDJ14-40*	Polysulfone
	BDJ14-81*	Lace White ABS
	BDJ15-40*	Polysulfone
	BDJ15-81*	Lace White ABS

*Check valve junction block. For use with RB01 and SB01

BLOCK	NUMBER	MATERIAL
	BDJ16-40*	Polysulfone
	BDJ16-81*	Lace White ABS
	BDJ17-40*	Polysulfone
	BDJ17-81*	Lace White ABS
	BDJ18-40	Polysulfone
	BDJ18-81	Lace White ABS
	BDJ19-40	Polysulfone
	BDJ19-81	Lace White ABS
	BDJ20-40	Polysulfone
	BDJ20-81	Lace White ABS
	BDJ21-40	Polysulfone
	BDJ21-81	Lace White ABS
	BDJ22-40	Polysulfone
	BDJ22-81	Lace White ABS



Build-A-Part Junction Block Configuration Table

BLOCK	X+ AXIS	X- AXIS	Y+ AXIS	Y- AXIS	Z+ AXIS	Z- AXIS
BDJ01	Female	Female				
BDJ02			Female		Female	
BDJ03				Female		Female
BDJ04	Female	Female	Female	Female		
BDJ05	Female		Female		Female	
BDJ06	Female		Female		Female	Female
BDJ07	Female	Female	Female	Female	Female	
BDJ08	Female	Female	Female	Female	Female	Female
BDJ09	Male	Female	Female		Female	Female
BDJ10	Male	Female	Female	Female	Female	Female
BDJ11	Male	Female	Female	Female		
BDJ12	Male	Female	Female			
BDJ13	Male	Female	Female		Female	
BDJ14	Male	Female				
BDJ15	Female	Female				
BDJ16	Female	Female		Female ^a		
BDJ17	Male	Female	Female ^a			
BDJ18	Male ^b	Female	Female		Female	Female
BDJ19	Male ^b	Female	Female	Female	Female	Female
BDJ20	Male ^b	Female	Female	Female		
BDJ21	Male ^b	Female	Female			
BDJ22	Male ^b	Female	Female		Female	

^aFor non-flow manifolding ^bFor use with BDMD

Material Suffix Key

 -40 Polysulfone
 -X0 Stainless Steel

 -81 Lace White ABS
 -X2 Buna-N Rubber

-9 Clear Polycarbonate

-F1A Medical Grade Polysulfone

RB01 SB01 (-X2 -X0)

Check Valve Ball 5/32" Diameter


BDMRP (-40 -81)

Bondable Plug


BDMD (-40 -81)

Bondable Mounting Device


BDMFTLL (-40 -81 -9)

Bondable Female Luer Thread Style


BDMMTL (-40 -81)

Bondable Male Luer (May be used with separate rotating lock ring; RMLLR)


RMLLR (-1 -2 -3 -4 -5 -06 -07 -6 -9002 -J1A)

Rotating Male Luer Lock Ring (For use with BDMMTL)


BDMR210 (-40 -81 -9)

Bondable 200 Series Barb, 1/16" (1.6 mm) ID Tubing


BDMR410 (-40 -81)

Bondable 400 Series Barb, 1/16" (1.6 mm) ID Tubing


BDMR220 (-40 -81)

Bondable 200 Series Barb, 3/32" (2.4 mm) ID Tubing


BDMR420 (-40 -81)

Bondable 400 Series Barb, 3/32" (2.4 mm) ID Tubing


BDMR230 (-40 -81)

Bondable 200 Series Barb, 1/8" (3.2 mm) ID Tubing


BDMR430 (-40 -81)

Bondable 400 Series Barb, 1/8" (3.2 mm) ID Tubing


BDMR240 (-40 -81)

Bondable 200 Series Barb, 5/32" (4.0 mm) ID Tubing


BDMR445 (-40 -81)

Bondable 400 Series Barb, .170" (4.3 mm) ID Tubing


BDML210 (-40 -81 -9)

Bondable Elbow 200 Series Barb, 1/16" (1.6 mm) ID Tubing


BDML410 (-40 -81)

Bondable Elbow 400 Series Barb, 1/16" (1.6 mm) ID Tubing


BDML220 (-40 -81 -9 -F1A)

Bondable Elbow 200 Series Barb, 3/32" (2.4 mm) ID Tubing


BDML420 (-40 -81)

Bondable Elbow 400 Series Barb, 3/32" (2.4 mm) ID Tubing


BDML230 (-40 -81)

Bondable Elbow 200 Series Barb, 1/8" (3.2 mm) ID Tubing


BDML430 (-40 -81)

Bondable Elbow 400 Series Barb, 1/8" (3.2 mm) ID Tubing



BUILD-A-PART:*Tees***BUILD-A-PART:***Threads***Material Suffix Key**

-40 Polysulfone
-X2 Buna-N Rubber

-81 Lace White ABS

-9 Clear Polycarbonate

-X0 Stainless Steel

BDMT210 (-40 -81)

Bondable Tee 200 Series Barb, 1/16" (1.6 mm) ID Tubing

**BDMT410 (-40 -81)**

Bondable Tee 400 Series Barb, 1/16" (1.6 mm) ID Tubing

**BDMT220 (-40 -81)**

Bondable Tee 200 Series Barb, 3/32" (2.4 mm) ID Tubing

**BDMT420 (-40 -81)**

Bondable Tee 400 Series Barb, 3/32" (2.4 mm) ID Tubing

**BDMT230 (-40 -81)**

Bondable Tee 200 Series Barb, 1/8" (3.2 mm) ID Tubing

**BDMT430 (-40 -81)**

Bondable Tee 400 Series Barb, 1/8" (3.2 mm) ID Tubing



our online ordering for component parts, now
available 24 hours a day, 7 days a week, with no
\$ minimums! You can find every catalog part at:

www.valueplastics.com

(Online ordering is not available in countries served by our regional partners)

BDMX (-40 -81)

Bondable 10-32 UNF Special Tapered Thread with 1/4" Hex

**BDMK (-40 -81)**

Bondable 10-32 UNF Thread with 1/4" Hex

**BDFS (-40 -81)**

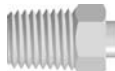
Bondable 1/4-28 UNF Thread with 5/16" Hex

**BDM6 (-40 -81)**

Bondable M6x1 Thread with 5/16" Hex

**BDM16 (-40 -81)**

Bondable 1/16-27 NPT Thread with 5/16" Hex

**BDM18 (-40 -81)**

Bondable 1/8-27 NPT Thread with 7/16" Hex

**BDF16 (-40 -81)**

Bondable 1/16-27 NPT Thread with 5/16" Hex

**BDF18 (-40 -81)**

Bondable 1/8-27 NPT Thread with 7/16" Hex

**BDFM6 (-40 -81)**

Bondable M6x1 Thread with 5/16" Hex

**BDFS (-40 -81)**

Bondable 1/4-28 UNF Thread with 5/16" Hex



OTHER COMPONENTS



CHECK VALVES
PG-69



CLAMPS
PG-69



INJECTION SITES
PG-69



STOPCOCKS
PG-69



SPIKES
PG-70



TUBING
PG-70



DESIGNER KITS
PG-71



TUBESETTER®
ASSEMBLY TOOL
PG-73



VPSS401068N (Polycarbonate with Silicone Disk)

Check Valve, Male/Female Luer, 420 mL/min flow rate at 1 M head 30 psi back pressure, 1/4 psi inlet cracking pressure



VPSS401020N (Polycarbonate with Silicone Disk)

Check Valve, Male/Female Luer, 129 mL/min flow rate at 100mmHg, 45 psi back pressure, 1-5 psi inlet cracking pressure



VPSS401036SN (Polycarbonate with Silicone Disk)

Reflux Check Valve, Male/Female Luer, 350mL/min flow Rate at 1 M head, 45 psi back pressure, opens at 284 mmHg



VPSS401001N (ABS Housing with Silicone Disk)

Check Valve, Male Slip Luer, 420 mL/min flow rate at 1 M head, 30 psi back pressure, 1/4 psi inlet cracking pressure



VPM2930601N (White ABS)

Tube Clamp with split, 1/8" (3.2 mm) OD Tubing



VPS3901074N (Polyisoprene with ABS Acrylic Body)

IN-4000 Intermittent Injection Site to Male Luer Lock



VPM1060200N (Clear Low Density Polyethylene)

Long Spike Guard Closed at Tip



VPM0480201N (White Polyethylene)

Luer Tip Syringe Cap



VPB0850400N (Clear ABS)

Female Luer Thread Style Coupler



VPM1080303N (Blue Polyethylene)

Male Luer Integral Lock Ring Plug



VPB1000055N (Polycarbonate Body with Polyethylene Handle)

One way Stopcock, Male Slip Luer to Capped Female Luer Thread Style



VP455980 (Polycarbonate Body with Polyethylene Handle)

One Way Stopcock, Capped Male Luer Lock to Capped Female Luer Thread Style - Sterile Version



VPB1000079N (Polycarbonate Body with Polyethylene Handle)

Three Way Stopcock, (2) Capped Female Luer Thread Style and Capped Male Luer Lock



VPB15311LG2 (Rad. Stable Polycarbonate Body with White HDPE Handle)

3-Way Stopcock, (2) Female Luer Thread Style & (1) Male Luer with Rotating Lock Ring (NO caps)



VPB1000062N (Polycarbonate Body with Polyethylene Handle)

Three Way Stopcock, (2) Female Luer Thread Style and Male Slip Luer



VPB1000099N (Polycarbonate Body with Polyethylene Handle)

Four Way Stopcock, (2) Capped Female Luer Thread Style and Male Slip Luer

**VPB1000110N (Polycarbonate Body with Polyethylene Handle)**

Four Way Stopcock, (2) Capped Female Luer Thread Style & Capped Male Luer Lock

**VPSS069200N (White Acrylic Spike with Clear LDPE Guard)**

Bag Spike with vented guard (replaces VPS069700N)

**POLYVINYL CHLORIDE (PVC) TUBING****75 Durometer**

Our PVC tubing is a very cost effective product that can satisfy a broad array of end use applications. It is flexible in nature, optically clear, and easily sterilized.

Resin Grade & Technical Information:

This tubing is extruded from Unichem 7511 G-015 resin, which is in compliance with all US Food & Drug Administration regulations for food grade use under Title 21 CFR. It is also certified USP Class VI. It can be sterilized by gamma radiation or Ethylene Oxide (EtO) gas. This tubing is not autoclavable.

We recommend that you request free samples for testing in your particular applications.

DIMENSION (ID X OD X LGTH)	NUMBER
1/16" X 1/8" X 100'	PV00-1031C
1/16" X 1/8" X 1000'	PV00-1031M
3/32" X 3/16" X 100'	PV00-2047C
1/8" X 1/4" X 100'	PV00-3062C
1/8" X 1/4" X 1000'	PV00-3062M
3/16" X 5/16" X 100'	PV00-5062C
1/4" X 3/8" X 100'	PV00-6062C

POLYURETHANE TUBING**80 Durometer**

Our polyurethane tubing is extremely kink resistant. It is also highly resistant to abrasion and scuffing. It is widely accepted as a premium material for medical device use because of its flexible nature and easy sterilizability.

Resin Grade & Technical Information:

This tubing is extruded from Dow's compound Pellethane 2363-80AE, which has passed USP Class VI testing. It can be sterilized by gamma radiation or Ethylene Oxide (EtO) gas. Please do not autoclave this tubing, as it may alter the chemical nature of the resin.

DIMENSION (ID X OD X LGTH)	NUMBER
1/16" X 1/8" X 100'	UR00-1031C
1/16" X 1/8" X 1000'	UR00-1031M
3/32" X 3/16" X 100'	UR00-2047C
3/32" X 3/16" X 1000'	UR00-2047M
1/8" X 1/4" X 100'	UR00-3062C

LOW DENSITY POLYETHYLENE TUBING**92 Durometer**

Our polyethylene tubing has excellent mechanical and chemical resistance properties. However, please use caution if your application involves possible bending or kinking the tubing. It is a semi-rigid material and will be permanently deformed if kinked or bent too tight.

Resin Grade & Technical Information:

This tubing is extruded from DuPont 2020T, which is in compliance with all U.S. Food & Drug Administration regulations for food grade use under Title 21 CFR. It can be sterilized by gamma radiation or Ethylene Oxide (EtO) gas. Autoclaving is not recommended.

DIMENSION (ID X OD X LGTH)	NUMBER
1/16" X 1/10" X 100'	LDPE01-1019C
1/16" X 1/10" X 1000'	LDPE01-1019M
1/16" X 1/8" X 100'	LDPE01-1031C
1/16" X 1/8" X 1000'	LDPE01-1031M
3/32" X 5/32" X 100'	LDPE01-2031C
3/32" X 5/32" X 1000'	LDPE01-2031M
1/8" X 3/16" X 100'	LDPE01-3031C
1/8" X 3/16" X 1000'	LDPE01-3031M
5/32" X 7/32" X 100'	LDPE01-4031C
5/32" X 7/32" X 1000'	LDPE01-4031M

ASSORTED DESIGNER KIT (Part number - ASSORTED KIT-001)

Our Assorted Kit provides a cross section of many components designed and manufactured by Value Plastics. This kit contains a variety of our popular components, including luers, tube-to-tube and threaded fittings.

Note: Due to our ever increasing product line, Kit contents are subject to change without notice. Kits may include one or more of each component in a variety of materials.



LUER DESIGNER KIT (Part Number - LUER KIT-001)

Our Luer Kit contains male and female luers, luer plugs, couplers, tees, elbows as well as blood pressure cuff and monitor fittings. Luer tapers are made to ISO standards.

Note: Due to our ever increasing product line, Kit contents are subject to change without notice. Kits may include one or more of each component in a variety of materials.



TUBE-TO-TUBE DESIGNER KIT (Part Number - TUBE-TO-TUBE KIT-001)

Our Tube-to-Tube Kit contains a variety of fittings in different configurations - and one that is sure to work for your application. Some of the fittings contained in this kit include straight-thru connectors, tees, elbows, Ys, and press-in plugs.

Note: Due to our ever increasing product line, Kit contents are subject to change without notice. Kits may include one or more of each component in a variety of materials.



BLOOD PRESSURE DESIGNER KIT (Part Number - BP KIT-001)

Our Blood Pressure Kit contains a variety of blood pressure fittings that are manufactured by Value Plastics. Some of the fittings contained in this kit include, quick connect fittings, connectors, panel mounts and adaptors.

Note: Due to our ever increasing product line, Kit contents are subject to change without notice. Kits may include one or more of each component in a variety of materials.

**BIOPHARM DESIGNER KIT (Part Number - BIOPHARM KIT-001)**

Our Biopharm Designer Kit contains a variety of fittings that are commonly found within the BioPharm market. Some of the fittings contained in this kit include our larger fittings of Y's, T's, elbows, straight through and reducing connectors ranging from 3/8" to 1", sanitary fittings and gaskets.

Note: Due to our ever increasing product line, Kit contents are subject to change without notice. Kits may include one or more of each component in a variety of materials.

**BUILD-A-PART DESIGNER KIT (Part Number -KIT-81 -KIT-40)**

Our Build-A-Part Kits are available in two different materials: White ABS or Polysulfone. Contained in these kits are luer's, elbows, tees, and junction blocks.

Note: Due to our ever increasing product line, Kit contents are subject to change without notice. Kits may include one or more of each component in a variety of materials.



Value Plastics' Tubesetter® assembly tool sets the standard for effortless tube set production. The Tubesetter product joins flexible tubing and Value Plastics' barbed fitting, applying the force necessary to push the tube over the barb, providing efficiency, economy and ease of use over other connection alternatives without adhesives or solvents!

TUBESSETTER®: Manual

Designed for rapid assembly of barb to tube connections, the Tubesetter assembly tool joins flexible tubing and Value Plastics' barbed fitting, applying the force necessary to push the tube over the barb. No external power source is needed. Made almost entirely of acetal plastic, the device is easy to clean and suitable for operation in most environments. Consider the Manual Small Fitting Tubesetter assembly tool for prototype assembly or lower-volume manufacturing needs.

Due to the wide variety of tubing and connection options available, please contact our Sales dept. to arrange for an evaluation of your application before ordering.

PART	DESCRIPTION
930B1A	Manual TUBESSETTER® Base
930JS*	Standard Jaw Set
930AS*	Standard Flip Top Anvil
920PS*	Standard Pin Set Assembly

*The base manual TUBESSETTER® unit requires a jaw set, anvil assembly and pin set assembly. An additional engineering fee may be required for a custom application.

MANUAL TUBESSETTER

- Easy to use
- Excellent for volumes up to 1,000 assemblies per month
- Accommodates tubing from 3/32" to 3/8" OD
- Configurable for: Luers - Straights - Ys - Tees - Elbows
- Requires no electricity or pneumatic power
- Long-life acetal construction



our online ordering for component parts, now available 24 hours a day, 7 days a week, with no \$ minimums! You can find every catalog part at:

www.valueplastics.com

(Online ordering is not available in countries served by our regional partners)



BARB DIMENSIONS PG-75

200 SERIES	BARB SIZE	BARB OD	IN
	210	0.094	0.1
	220	0.141	0.1
	230	0.188	0.1
	240	0.234	0.1

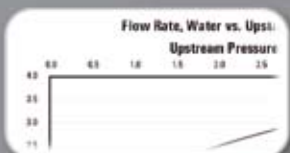
BARB PERFORMANCE PG-76



PANEL MOUNT INSTRUCTIONS PG-77



BPF SERIES PERFORMANCE PG-77



RESIN INFORMATION PG-78

CHEMICAL	%	TEMP °C	TEMP °F	APL
Acetic Acid	5%	23 C	73 F	Excludes
Acetone	100%	50 C	122 F	Satisfactory
Acrylonitrile	100%	24 C	75 F	Satisfactory
Acrylonitrile	100%	24 C	75 F	—
Air	100%	82 C	180 F	Excludes
Ammonia, Liquid	100%	24 C	75 F	Satisfactory
Ammonium Hydroxide	100%	19 C	66 F	Satisfactory

TRADEMARKS & PATENTS PG-80



TERMS & CONDITIONS PG-81

TERMS AND CONDITIONS OF SALE

All terms are subject to all January 1, 2000 and are subject to change with these Terms and Conditions of Sale and any quote submitted with these Terms and Conditions of Sale and any quote submitted with these Terms and Conditions of Sale and any quote submitted with these Terms and Conditions of Sale.

ORDER FORM PG-82

Value Plastics, Inc. Faxable Order Form: 978-223-0953

ALL for (if different for Agency) list and code

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ FAX _____

E-MAIL _____

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CLASSIC SERIES



BARB SIZE	BARB OD	BARB ID	TUBE INTERNAL DIAMETER		
			DEC.	FRAC.	METRIC
10	0.105	0.046	0.063	1/16"	1.6 mm
20	0.145	0.060	0.094	3/32"	2.4 mm
30	0.187	0.078	0.125	1/8"	3.2 mm
40	0.234	0.100	0.156	5/32"	4.0 mm
50	0.280	0.130	0.188	3/16"	4.8 mm
60	0.355	0.187	0.250	1/4"	6.4 mm

500 SERIES



BARB SIZE	BARB OD	BARB ID	TUBE INTERNAL DIAMETER		
			DEC.	FRAC.	METRIC
004	0.102	0.060	0.063	1/16"	1.6 mm
007	0.129	0.076	0.094	3/32"	2.4 mm
013	0.164	0.096	0.125	1/8"	3.2 mm
025	0.208	0.122	0.156	5/32"	4.0 mm
035	0.264	0.155	0.188	3/16"	4.8 mm
055	0.335	0.197	0.250	1/4"	6.4 mm
065	0.425	0.250	0.312	5/16"	7.9 mm
N070	0.483	0.262	0.375	3/8"	9.5 mm
L070	0.483	0.251	0.375	3/8"	9.5 mm
T070	0.483	0.290	0.375	3/8"	9.5 mm
Y070	0.483	0.290	0.375	3/8"	9.5 mm
N080	0.613	0.333	0.500	1/2"	12.7 mm
L080	0.613	0.319	0.500	1/2"	12.7 mm
T080	0.613	0.356	0.500	1/2"	12.7 mm
Y080	0.613	0.362	0.500	1/2"	12.7 mm
N090	0.718	0.390	0.625	5/8"	16.0 mm
L090	0.718	0.374	0.625	5/8"	16.0 mm
T090	0.718	0.374	0.625	5/8"	16.0 mm
Y090	0.718	0.390	0.625	5/8"	16.0 mm
N100	0.853	0.465	0.750	3/4"	19.0 mm
L100	0.853	0.443	0.750	3/4"	19.0 mm
T100	0.853	0.447	0.750	3/4"	19.0 mm
Y100	0.853	0.492	0.750	3/4"	19.0 mm
N110	1.125	0.623	1.000	1"	25.4 mm
L110	1.125	0.600	1.000	1"	25.4 mm
T110	1.125	0.600	1.000	1"	25.4 mm
Y110	1.125	0.623	1.000	1"	25.4 mm

200 SERIES



BARB SIZE	BARB OD	BARB ID	TUBE INTERNAL DIAMETER		
			DEC.	FRAC.	METRIC
210	0.094	0.047	0.063	1/16"	1.6 mm
220	0.141	0.070	0.094	3/32"	2.4 mm
230	0.188	0.094	0.125	1/8"	3.2 mm
240	0.234	0.117	0.156	5/32"	4.0 mm
250	0.282	0.141	0.188	3/16"	4.8 mm
260	0.375	0.188	0.250	1/4"	6.4 mm

300 SERIES



BARB SIZE	BARB OD	BARB ID	TUBE INTERNAL DIAMETER		
			DEC.	FRAC.	METRIC
360	0.338	0.192	0.250	1/4"	6.4 mm

400 SERIES



BARB SIZE	BARB OD	BARB ID	TUBE INTERNAL DIAMETER		
			DEC.	FRAC.	METRIC
410	0.078	0.046	0.063	1/16"	1.6 mm
420	0.117	0.068	0.094	3/32"	2.4 mm
430	0.156	0.092	0.125	1/8"	3.2 mm
440	0.206	0.125	0.156	5/32"	4.0 mm
445	0.213	0.125	0.170	-	4.3 mm
450	0.234	0.137	0.188	3/16"	4.8 mm
460	0.313	0.184	0.250	1/4"	6.4 mm

600 SERIES



BARB SIZE	BARB OD	BARB ID	TUBE INTERNAL DIAMETER		
			DEC.	FRAC.	METRIC
N655	0.335	0.181	0.250	1/4"	6.4 mm
N670	0.490	0.296	0.375	3/8"	9.5 mm
N680	0.625	0.403	0.500	1/2"	12.7 mm
N690	0.762	0.499	0.625	5/8"	16.0 mm
N6100	0.900	0.615	0.750	3/4"	19.0 mm
N6110	1.180	0.804	1.000	1"	25.4 mm
T670	0.490	0.286	0.375	3/8"	9.5 mm
T680	0.625	0.399	0.500	1/2"	12.7 mm
T690	0.762	0.483	0.625	5/8"	16.0 mm
Y670	0.490	0.296	0.375	3/8"	9.5 mm
Y680	0.625	0.401	0.500	1/2"	12.7 mm

700 SERIES



BARB SIZE	BARB OD	BARB ID	TUBE INTERNAL DIAMETER		
			DEC.	FRAC.	METRIC
755	0.329	0.204	0.250	1/4"	6.4 mm
770	0.450	0.302	.375	3/8"	9.5 mm

900 SERIES



BARB SIZE	BARB OD	BARB ID	TUBE INTERNAL DIAMETER		
			DEC.	FRAC.	METRIC
970	0.437	0.269	0.375	3/8"	9.5 mm
975	0.573	0.358	0.500	1/2"	12.7 mm

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Performance of Barb to Tube Connection

Tensile pull and burst tests were performed by an independent laboratory under controlled conditions to provide comparative performance data for the various barb styles and sizes offered by Value Plastics. Graph numbers 1 through 8 present the data from each of the tests for each barb size and each barb style connected to PVC tube.

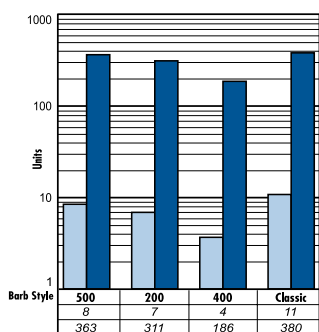
The values shown are the means of a statistically significant sample quantity of each configuration. Value Plastics® barbed fittings specifically designed for use with the tubing size indicated were used in these tests. No oversized barbs, solvents, adhesives, or secondary fasteners of any kind were used.

Tensile Pull Test: Tensile properties were measured to determine the force required to remove the barbed fitting from the tubing. Tensile specimens were mounted axially in a holding fixture and tested at a rate of 20 inches per minute. Failure mode was tubing separating from the barb.

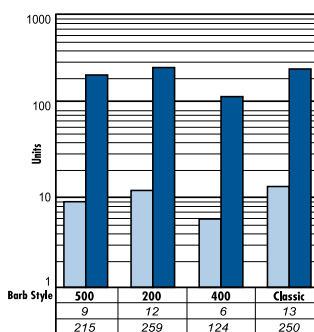
Hydrostatic Burst Test: Hydrostatic burst testing was performed in general accordance with ASTM D1599. Failure mode was either tubing separating from the barb, the tubing bursting, or a combination of the two.

PERFORMANCE OF BARB TO TUBE CONNECTIONS

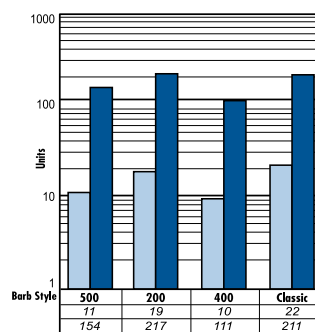
■ Tensile Pull Test (lbs)
■ Hydrostatic Burst Test (psi)



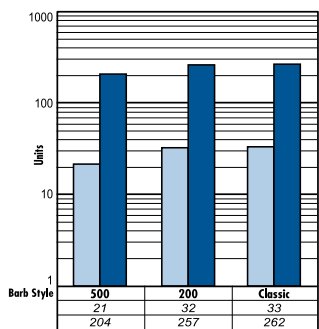
Graph 1: 1/16" Barb Performance



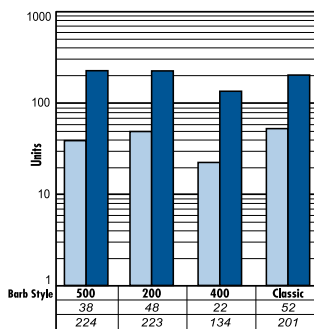
Graph 2: 3/32" Barb Performance



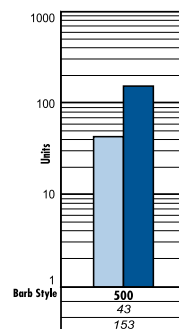
Graph 3: 1/8" Barb Performance



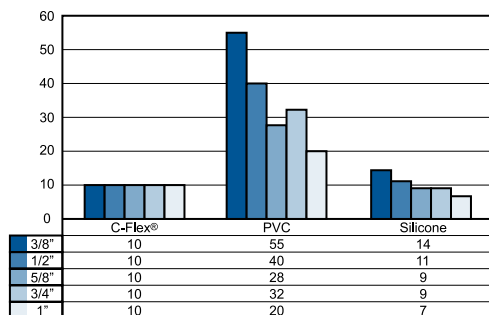
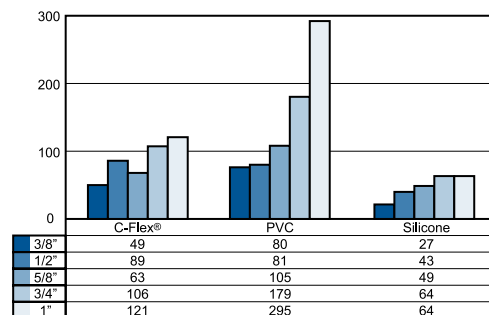
Graph 4: 5/32" Barb Performance



Graph 5: 3/16" Barb Performance



Graph 6: 1/4" Barb Performance

600 Series Leak Tests**600 Series Tensile Pull Tests**

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BPF Series Typical Physical Properties

Maximum cycles _____ 50,000 connect-disconnect cycles

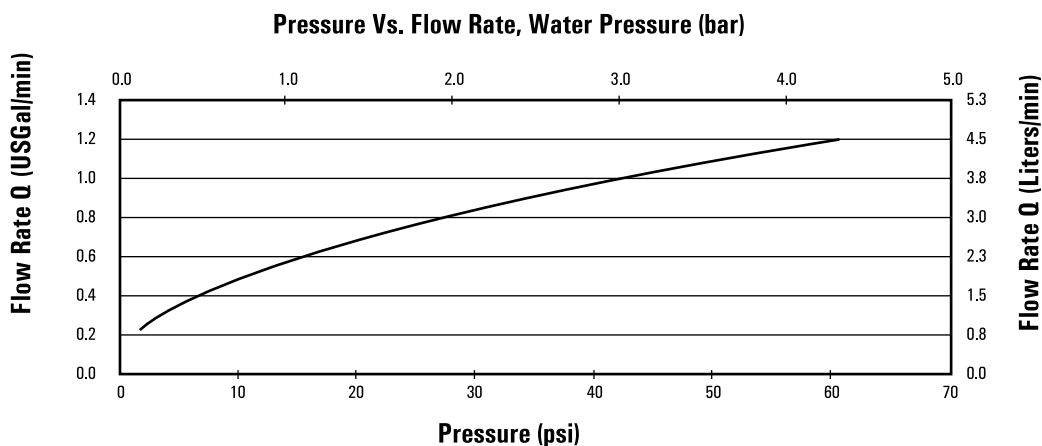
Maximum leak resistance _____ < .007 psi / 0.05 kPa / sec.

Maximum axial tensile resistance _____ 20 lbf.

Minimum Fitting ID _____ .113" / 2.9 mm

Maximum working pressure _____ 60 psi, 4.14 bar

Minimum Cv _____ .39



Panel Mount Instructions

Panel-mounted female luer, in both FTLLB (thread style) and FTLB (lug style) series, are shown beginning on page 19. When used with our CCLR lock rings or CCR color coding rings and LNS lock nuts (see pages 20, 44), color coding of connections is easy.

The information provided here will help you mount the panel mount luer. Please note that they are intended for panel thickness of 1/16" to 1/8" (1.5 to 3 mm).

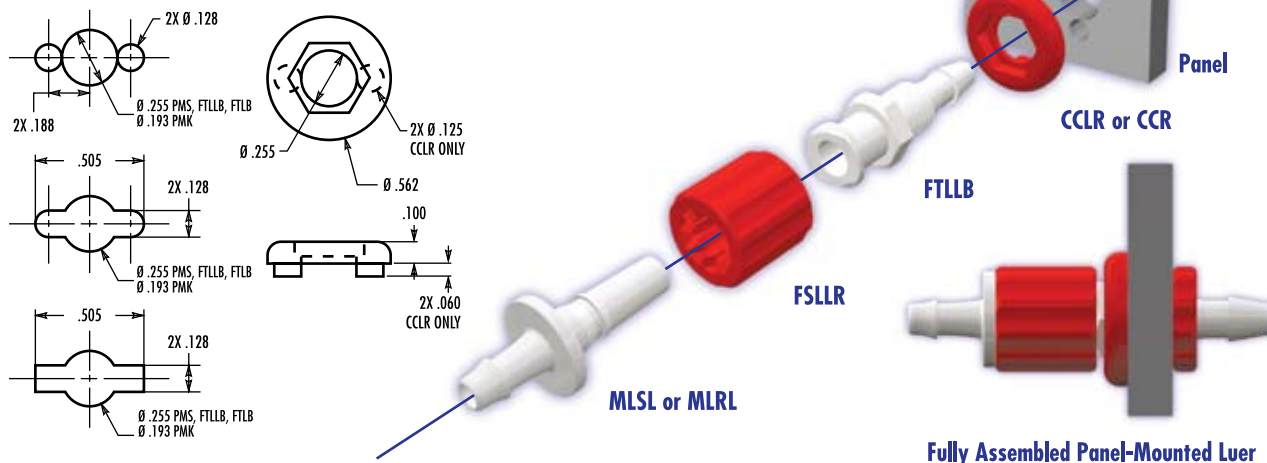
FTLLB series shown with MSLR luer, FSLLR lock ring, CCLR color coding lock ring, and LNS lock nut.

Threaded Panel Openings:

Tap the panel with threads from tube fittings, panel mounts or BPMBs and use a CCR color coded ring. In this case, the fitting tightened into the panel prevents fitting rotation. Use an LNS lock nut for additional security; tighten snug plus 1/4 turn only.

Non-Threaded Panel Openings:

Use any one of the three panel patterns shown below with a CCLR lock ring and LNS lock nut. Together, the panel opening and CCLR prevent the panel mount fitting from rotating. Tighten LNS snug plus 1/4 turn only.



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CHEMICAL	%	TEMP C	TEMP F	ABS	ACETAL	PVDF	NYLON	MABS	POLYCARBONATE	POLYPROPYLENE	POLYSULFONE
Acetic Acid	5%	23 C	73 F	Excellent	Unsatisfactory	Excellent	Satisfactory	Satisfactory	Satisfactory	Excellent	Unsatisfactory
Acetone	100%	50 C	122 F	Satisfactory	Unsatisfactory	Unsatisfactory	Satisfactory	Unsatisfactory	Unsatisfactory	Excellent	Unsatisfactory
Acetophenone	100%	24 C	75 F	Satisfactory	—	Unsatisfactory	Excellent	—	—	Satisfactory	—
Acetylene	100%	24 C	75 F	—	—	Excellent	Excellent	—	—	—	—
Air	100%	82 C	180 F	Excellent	Excellent	Excellent	Excellent	—	—	—	Excellent
Ammonia, Liquid	100%	24 C	75 F	Satisfactory	—	Unsatisfactory	Satisfactory	—	Unsatisfactory	Excellent	Excellent
Ammonium Hydroxide	10%	23 C	73 F	Satisfactory	—	Excellent	Excellent	—	Unsatisfactory	Excellent	Excellent
Ammonium Hydroxide	10%	70 C	158 F	Unsatisfactory	—	Excellent	Unsatisfactory	—	Unsatisfactory	Excellent	Excellent
Barium Sulfide	100%	24 C	75 F	Excellent	Excellent	Excellent	Satisfactory	—	—	Excellent	—
Benzene	100%	23 C	73 F	Satisfactory	Excellent	Excellent	Excellent	—	Unsatisfactory	Satisfactory	Unsatisfactory
Bleach	100%	23 C	73 F	Satisfactory	Unsatisfactory	Excellent	Satisfactory	—	Unsatisfactory	Satisfactory	Excellent
Boric Acid	7%	35 C	95 F	Excellent	Excellent	Excellent	Unsatisfactory	—	Excellent	Excellent	—
Calcium Carbonate	Sat. sol.	24 C	75 F	Excellent	—	Excellent	—	—	—	Excellent	—
Carbon Dioxide	100%	50 C	122 F	Satisfactory	Excellent	Excellent	Excellent	—	—	Excellent	—
Carbon Monoxide	100%	50 C	122 F	Satisfactory	—	Excellent	Excellent	—	—	Excellent	—
Carbon Tetrachloride	100%	50 C	122 F	Unsatisfactory	—	Excellent	Excellent	—	Unsatisfactory	Unsatisfactory	Unsatisfactory
Chlorine Water	Dilute	23 C	73 F	Unsatisfactory	—	Excellent	Satisfactory	—	Unsatisfactory	Unsatisfactory	Satisfactory
Chlorine Water	Concen.	23 C	73 F	Unsatisfactory	—	Excellent	Unsatisfactory	—	Unsatisfactory	Unsatisfactory	Unsatisfactory
Chlorobenzene	100%	23 C	73 F	Satisfactory	—	Excellent	Excellent	—	Unsatisfactory	Unsatisfactory	Unsatisfactory
Chlorofluorocarbon 11	100%	24 C	75 F	—	—	Excellent	Excellent	—	Satisfactory	—	Excellent
Chloroform	100%	23 C	73 F	Unsatisfactory	Satisfactory	Excellent	Satisfactory	—	Unsatisfactory	Unsatisfactory	Unsatisfactory
Cyclohexanone	100%	24 C	75 F	Satisfactory	—	Excellent	Excellent	—	Unsatisfactory	Satisfactory	Unsatisfactory
Dichlorethylene	100%	23 C	73 F	—	—	Excellent	Satisfactory	—	—	Excellent	Unsatisfactory
Ethanol	95%	50 C	122 F	Satisfactory	—	Excellent	Excellent	—	Satisfactory	Excellent	Satisfactory
Ethyl Acetate	95%	50 C	122 F	Satisfactory	—	Unsatisfactory	Excellent	—	Unsatisfactory	Satisfactory	Unsatisfactory
Ethylene Glycol	100%	23 C	73 F	Excellent	Satisfactory	Excellent	Excellent	Unsatisfactory	Satisfactory	Excellent	Excellent
Ethylene Oxide	100%	24 C	75 F	Unsatisfactory	—	Excellent	Satisfactory	—	Satisfactory	Satisfactory	Excellent
Ethylene Oxide	100%	79 C	175 F	Unsatisfactory	—	Excellent	Unsatisfactory	—	Satisfactory	Unsatisfactory	Excellent
Fatty Acids	—	—	—	—	Excellent	Excellent	—	—	—	Excellent	—
Fluorine	100%	23 C	73 F	Unsatisfactory	—	Excellent	Unsatisfactory	—	—	—	—
Formaldehyde	37%	24 C	75 F	Unsatisfactory	Excellent	Excellent	—	—	Unsatisfactory	Excellent	Unsatisfactory
Gasoline	100%	85 C	185 F	Excellent	Satisfactory	Excellent	Excellent	—	Unsatisfactory	Satisfactory	Satisfactory
Glucose	Concen.	24 C	75 F	Excellent	—	Excellent	—	—	—	Excellent	—
Glycerin	100%	24 C	75 F	Excellent	—	Excellent	—	—	Excellent	Excellent	Excellent
Hydrochloric Acid	2%	23 C	73 F	Excellent	Satisfactory	Excellent	Excellent	—	Excellent	Excellent	Excellent
Hydrochloric Acid	10%	25 C	77 F	Excellent	Satisfactory	Excellent	Unsatisfactory	—	Excellent	Excellent	Excellent
Hydrofluoric Acid	10%	23 C	73 F	Satisfactory	—	Excellent	Unsatisfactory	—	—	Excellent	Excellent
Hydrogen Peroxide	1%	24 C	75 F	Excellent	Unsatisfactory	Excellent	Satisfactory	Satisfactory	Excellent	Excellent	Excellent
Hydrogen Peroxide	5%	43 C	110 F	Satisfactory	Unsatisfactory	Excellent	Unsatisfactory	Satisfactory	Excellent	Satisfactory	Excellent
Isopropanol	100%	23 C	73 F	—	Excellent	Excellent	Excellent	Unsatisfactory	Excellent	Excellent	Satisfactory
Kerosene	100%	85 C	185 F	Satisfactory	—	Excellent	Excellent	—	Satisfactory	Satisfactory	Satisfactory
Methyl Ethyl Ketone	100%	50 C	122 F	Satisfactory	—	Unsatisfactory	Excellent	—	Unsatisfactory	Satisfactory	Unsatisfactory
Methylene Chloride	100%	23 C	73 F	Unsatisfactory	—	Excellent	Satisfactory	—	Unsatisfactory	Excellent	Unsatisfactory
Methanol	100%	23 C	73 F	Unsatisfactory	—	Excellent	Excellent	Satisfactory	Satisfactory	Excellent	Satisfactory
Nitric Acid	10%	23 C	73 F	Satisfactory	—	Excellent	Unsatisfactory	Unsatisfactory	Unsatisfactory	Excellent	Satisfactory
Oxygen	100%	24 C	75 F	—	—	Excellent	Satisfactory	—	—	—	—
Ozone	100%	43 C	110 F	Satisfactory	—	Excellent	Unsatisfactory	—	Unsatisfactory	—	—
Phenol	90%	23 C	73 F	Unsatisfactory	Unsatisfactory	Excellent	Unsatisfactory	—	—	Excellent	—
Phosphoric Acid	5%	98 C	208 F	Satisfactory	Unsatisfactory	Excellent	Unsatisfactory	—	Unsatisfactory	Excellent	Excellent
Propane	100%	23 C	73 F	Satisfactory	—	Excellent	Excellent	—	—	—	—
Sodium Bicarbonate	Concen.	24 C	75 F	Excellent	Excellent	Excellent	Excellent	—	—	Excellent	Excellent
Sodium Chloride	10%	23 C	73 F	Excellent	—	Excellent	Excellent	Satisfactory	—	Excellent	Excellent
Sodium Chloride	Sat. sol.	24 C	75 F	Excellent	—	Excellent	Excellent	—	—	Excellent	Excellent
Sodium Hydroxide	10%	70 C	158 F	Satisfactory	—	Excellent	Satisfactory	Satisfactory	—	Excellent	Excellent
Steam	—	120 C	248 F	Unsatisfactory	—	Excellent	Unsatisfactory	—	Unsatisfactory	Satisfactory	Excellent
Sulfuric Acid	30%	23 C	73 F	Satisfactory	Unsatisfactory	Excellent	Unsatisfactory	Satisfactory	Excellent	Excellent	Excellent
Tetrahydrofuran	100%	23 C	73 F	Satisfactory	—	Unsatisfactory	Excellent	—	—	Unsatisfactory	—
Toluene	100%	50 C	122 F	Satisfactory	Unsatisfactory	Excellent	Excellent	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory
Trichloroethylene	100%	23 C	73 F	Satisfactory	—	Excellent	Satisfactory	—	Unsatisfactory	Unsatisfactory	Unsatisfactory
Water	100%	79 C	175 F	Excellent	—	Excellent	Excellent	Satisfactory	Unsatisfactory	Excellent	Excellent

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Material/ Manufacturer & Grade	VP Code	Regulatory Status of Base Resin*	Animal Derivative Free*	Gamma Radiation** (Sterilization)	Ethylene Oxide (Sterilization)	Autoclave (Sterilization)
ABS Dow Magnum 9020	-81	21 CFR 181.32 FDA Approved for Food Contact; RoHS Compliant	No	Compatible up to 1 Mrad	Not recommended	Poor. Components may distort due to low heat deflection temperatures
ABS (Methyl Methacrylate) BASF Terlux 2802 TR	-8003	USP Class VI Certified; FDA Approved; RoHS Compliant	Yes	Withstands up to 5 Mrad doses without yellowing	Good	Poor. Components may distort due to low heat deflection temperatures
ABS (Sno White) INEOS Lustran 348-012002	-8012	USP Class VI Certified; FDA Approved; ISO 10993 Part I Compliant; RoHS Compliant	N/A	Compatible up to 5 Mrads	Good	Not suitable due to low heat deflection temperatures
Acetal Dupont Delrin 500P	-10	RoHS Compliant	No	Compatible up to 1 Mrad	Excellent	Very Good
Acetal Copolymer BASF Ultrahom N 23020 003 UNC Q600	-1006	USP Class VI Certified; FDA Approved 21 CFR 177.2470; RoHS Compliant	No	Compatible up to 1.5 Mrads	Excellent	Very Good
Acrylic Crylite Med 2	-50	USP Class VI Certified; 21 CFR 177.1010 FDA Approved; RoHS Compliant	Yes	Very good up to commonly used doses (6 Mrads).	Excellent	Not Recommended
Copolyester Eastman EKSTAR MN211 Natural	-CM018	USP Class VI Certified; ISO 10993 Compliant; RoHS Compliant	N/A	Compatible up to 6 Mrads	Highly compatible	-
Nylon BASF Ultramid A3K	-00USP	21 CFR 177.1500 FDA Approved; RoHS Compliant	N/A	Very good. May discolor to brownish hue.	Very good. Some susceptibility to oxidizing agents.	Very good. Product may swell slightly due to water absorption.
Nylon Dupont Zytel 101F	-0, -1, -2, -3, -4, -5, -06, -07	21 CFR 177.1500 FDA Approved; RoHS Compliant	No	Very good. May discolor to brownish hue.	Very good. Some susceptibility to oxidizing agents.	Very good. Product may swell slightly due to water absorption.
Nylon (Glass Reinforced) Dupont Zytel 70G331	-7, -72	-	No	Very good. May discolor to brownish hue.	Very good. Some susceptibility to oxidizing agents.	Excellent
Polycarbonate (Clear) Bayer Makrolon 2558 550115	-9	USP Class VI Certified; 21 CFR 177.1580; FDA Approved; ISO 10993 Compliant; RoHS Compliant	No	Compatible up to 10 Mrads with minor loss of physical properties. Will discolor to yellow-green hue.	Highly compatible	Poor. May craze or stress crack due to molding stresses.
Polycarbonate (Clear) Bayer Makrolon Rx 1805 451118	-9010	USP Class VI Certified; ISO 10993 Compliant; RoHS Compliant	Yes	Compatible up to 10 Mrads with minor loss of physical properties. May discolor slightly dependent upon dose/number of cycles.	Highly compatible	Poor. May craze or stress crack due to molding stresses.
Polycarbonate (Tinted) Dow Calibre Megarad 2081-15	-9002	USP Class VI Certified; ISO 10993 Compliant; RoHS Compliant	Yes	Excellent up to 10 Mrads with minor loss of physical properties. Light violet hue turns clear upon sterilization.	Highly compatible	Not Recommended
Polyethylene Eastman Voridian 1870A	-CM006	USP Class VI Certified; FDA Approved; RoHS Compliant	Yes	Compatible up to 6 Mrads	Highly compatible	Not Recommended
Polypropylene Bacell Profax PD626	-6	USP Class VI Certified; 21 CFR 177.1520 FDA Approved; RoHS Compliant	No	Excellent up to commonly used sterilization doses (6 Mrads).	Good. May react poorly to EtO/CFE mix.	Poor. Components may distort due to low heat deflection temperatures
Polypropylene Flint Hills PS-080X	-6005	USP Class VI Certified; 21 CFR 177.1520 FDA Approved; RoHS Compliant	Yes	Very good to commonly used sterilization doses (6 Mrads).	Highly compatible	Not Recommended
Polysulfone Solvay Udel P1700 MG11	-F1A	USP Class VI Certified; 21 CFR 177.1655 FDA Approved; RoHS Compliant	Yes	Highly compatible. Will discolor to brownish hue.	Excellent	Excellent
Polysulfone Solvay Udel P1700 CL2611	-40	21 CFR 177.1655 FDA Approved	Yes	Highly compatible. Will discolor to brownish hue.	Excellent	Excellent
PVDF Atofina Kynar 1000 HD	-J1A	USP Class VI Certified; 21 CFR 177.1500 FDA Approved; RoHS Compliant	Yes	Highly compatible. Will discolor to brownish hue.	Excellent	Highly Compatible

*as determined by resin manufacturer

**1 Mrad (Mrad) = 10 kiloGrays (kGy)

Property	ASTM Test Method	PVDF	Polycarb	Radiation Stable PC	Polypro	Nylon ^a	GF Nylon ^a	ABS	MABS	Polysulfone	Acetal
Tensile Strength	D638	5,400	10,000	9,800	—	12,000	27,000	4,800	—	—	—
Elongation at Break, %	D638	100-400	120	150	375	300	3	50	12	50-100	40
Tensile Yield Strength, psi	D638	6,500	9,200	9,800	4,400	12,000	—	5,700	6,960	10,200	9,900
Flexural Modulus, kpsi	D790	360	330	350	170	410	1,300	330	—	390	450
Rockwell Hardness D	D785	—	R118	R118	R80-102	R121	—	R107	—	—	R122
Rockwell Hardness M	—	—	M75	M72	—	M79	M101	—	—	M69	M89
Shore Hardness D	D2240	D76-80	—	—	—	—	—	—	—	—	—
Coef. of Linear 10-5 in/in/°F	D696	7.6	3.9	3.8	—	4	1.3	5.5	—	3.1	—
Deflection Temp°F @264psi	D648	244	266	252	—	194	480	173	194	345	216
Deflection Temp°F @66psi	D648	—	273	—	190	455	—	—	201	358	332
Water Absorption, %, 24 h	D570	0.015	0.15	0.15	0	1.2	0.7	0.25-0.40	0.7	0.3	0.4
Izod Impact, (Notched) ft-lb/in	D256	3.1	16.0	14.0	0.5	1.0	2.2	6.0	1.31	1.3	—

The data presented here is for reference only. It was compiled primarily from the resin manufacturers' data to provide our customers with a means of comparing the characteristics of components at the time of publication. The particular conditions of your use and application of our products are beyond our control. Thus, it is imperative that you test our products in your specific application to determine their suitability. All information is provided without implied or expressed warranty or guarantee by Value Plastics® or other manufacturers. None of the information provided constitutes a recommendation or endorsement of any kind by Value Plastics®.

TECHNICAL:
Patents and Trademarks
PATENTS

5,075,615
 5,165,733
 5,704,106
 D339,417
 D372,093
 D375,160
 D388,876

To protect our designs and our customers, it is important to be aware of the patents and trademarks that apply to our products. Look for the Value Plastics logo (∇) to ensure you do not mistakenly use a poor quality counterfeit of a Value Plastics® fitting, thereby jeopardizing the integrity and quality of your product.

C-Flex® is a registered trademark of Consolidated Polymer Technologies, Inc.
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One or more components contained in this catalog may be covered by B. Braun OEM Division patents and trademarks. Patent numbers: 4,246,932; 4,535,820; 4,683,916.

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1,428,380


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1,887,178
VALUE PLASTICS®

Corporate Trademark.

TRADEMARK
1,727,081
TUBESSETTER®

Trademark for our rapid assembly devices

OTHER TRADEMARKS

1,827,467
 1,817,921
 1,817,922
 2,655,263
 2,616,170
 2,535,232
 2,535,234

All terms are current as of September 1, 2008 and are subject to change without notice.

These Terms and Conditions of Sale and any quote submitted with these Terms and Conditions of Sale (together, the "Contract") are between Value Plastics, Inc. ("Value Plastics") and the customer to which these Terms and Conditions of Sale and any quote are delivered ("Buyer").

1. AGREEMENT. Buyer accepts this Contract by: (a) executing a separate agreement with Value Plastics which incorporates these terms and conditions, (b) delivering a purchase order for Products (defined below) with quantities and delivery dates acceptable to Value Plastics; (c) accepting delivery of the Products; or (d) paying the price for the Products, whether prior to delivery or not, as agreed to by the parties and/or set forth in the quote or invoice, whichever of the four acceptance methods comes first. Any counteroffer or proposed addition to or supplement of, or any material variance from, the material terms and conditions of this Contract are hereby expressly objected to and rejected. If this Contract is responsive to a prior offer by Buyer, then this Contract shall be deemed an acceptance of such offer limited to the material terms and conditions stated in this Contract, and any additional or supplemental terms or any material variance from the terms and conditions of this Contract are expressly objected to and rejected. Any non-material variance from the terms of this Contract proposed by Buyer shall not operate as a rejection of this Contract, and shall be deemed a part of this Contract.

2. PRODUCTS. Buyer agrees to buy, and Value Plastics agrees to manufacture and sell, the products ("Products") described in a quote or, if none, pursuant to any acceptable orders placed by Buyer under this Contract. To the extent Buyer provides any product specifications to Value Plastics, Buyer grants Value Plastics the right to use any such specifications to fill any orders placed by Buyer in connection therewith.

3. ORDERING. Customer Service accepts telephone orders at 970-267-5200 from 7:00 am to 5:00 pm Mountain Time, Monday through Friday. Orders may also be placed by mail, fax at 970-223-0953, by email to orders@valueplastics.com or any time at www.valueplastics.com. Orders must be placed using a Value Plastics part number. Most Products are shipped bulk in quantities of 100, 500, or 1,000 pieces, as molded and non-sterile. For all orders except those placed through www.valueplastics.com, customer reference numbers may be included on the invoice and packing slip if requested at order placement.

4. PRICE. Prices for the Products are described on the quote or, if none, on Value Plastics' published price list and are effective for the period set forth in the quote, on the price list or, if none, until otherwise changed, which may occur at any time without notice to Buyer. Buyer shall pay Value Plastics the price for Products ordered set forth on the quote or as notified to Buyer on Value Plastics' invoice. Prices exclude all federal, state, or local taxes, and therefore such prices are subject to increase in the amount of any such tax (excluding tax on net income) that Value Plastics may be required to collect or pay upon the sale or delivery of the Products. All prices are, and all payments shall be made, in US dollars.

5. PAYMENT TERMS. Value Plastics accepts checks, wire transfers, MasterCard, Visa or American Express and open account invoicing (upon completion and execution of a credit agreement satisfactory to Value Plastics). Unless prepaid or otherwise stated on the quote, invoice or order confirmation, payment terms for sales of Products are net 30 days after the date of Value Plastics' invoice. Buyer shall make all payments irrespective of whether Buyer has made or may make any inspection of any Product. Value Plastics may cancel or reschedule deliveries of products if Buyer fails to make any payment when due. Value Plastics' rights under this section shall be in addition to all other rights and remedies available to Value Plastics upon Buyer's default. Buyer shall be liable for all expenses attendant to collection of past due amounts, including attorney's fees.

6. FORCE MAJEURE. Value Plastics shall not be liable for any delays in the delivery of orders, due in whole or in part, directly or indirectly, to fire, act of God, strike, shortage of raw materials, supplies or components, retooling, upgrading of technology, delays of carriers, embargo, government order or directive, or any other circumstance beyond Value Plastics' reasonable control.

7. DELIVERY TERMS. Unless otherwise stated on a quote, if any, (a) all domestic deliveries shall be made F.O.B. Value Plastics' factory in Fort Collins, Colorado, USA and risk of loss of such Products shall transfer to Buyer upon delivery to the freight carrier; and (b) all international deliveries shall be made Ex Works Value Plastics' factory (Incoterms 2000), and, unless otherwise stated in a quote, if any, Value Plastics shall present the Products to the carrier, and risk of loss of such Products shall transfer to Buyer upon presentation. Orders for stocked product are usually shipped within 48 hours of receipt unless express delivery is specified. Value Plastics will attempt to meet the requirements of Buyer's delivery schedule and Value Plastics shall not be in default of performance due to a delay of reasonable duration resulting from any cause. Buyer shall pay, or reimburse Value Plastics for, all amounts due for import and export licenses and permits, custom charges and duties, penalties, freight, insurance and other shipping expenses. Unless otherwise instructed, selection of carrier and routing of all shipments shall be at Value Plastics' discretion. Shipment dates for export sales are approximate and are subject to receipt of all necessary Buyer information, and all necessary licenses, permits and other documents. A variation in the quantity of any Products which are especially made-to-order not to exceed plus or minus ten percent (10%) of the amount agreed upon will be considered to be in compliance with the agreement of the parties.

8. INSPECTION AND ACCEPTANCE. Buyer must inspect delivered Products and report claims for any damages or shortages in writing within ten (10) days of delivery or the Products shall be deemed irrevocably accepted and such claims shall be deemed waived, except as provided in Section 10. In the event of source inspection by Buyer, Value Plastics reserves the right to designate the place within the plant where inspection may be performed and to deny access to areas and processes considered proprietary to Value Plastics.

9. TITLE. Title to the Products shall stay with Value Plastics until Value Plastics receives payment in full for such Products. Buyer hereby recognizes that Value Plastics retains all right, title and interest in (a) all intellectual property rights in and to the Products; (b) all processes, methods, formula, ingredients, designs, procedures and other practices used by Value Plastics or relating to the manufacture and sale of the Products, including all intellectual property rights therein; and (c) all of Value Plastics' equipment and tooling used in the manufacture and sale of the Products, including all intellectual property rights therein, (collectively "Value Plastics Technology"). Buyer hereby assigns to Value Plastics all right (including intellectual property rights), title and interest it may now or hereafter possess in and to the Value Plastics Technology and in any derivative works of and improvements to the Products and agrees to execute all documents, and take all actions, that may be necessary to effect such assignment. Value Plastics is under no obligation to disclose any of the Value Plastics Technology to Buyer for any reason.

10. LIMITED WARRANTY AND REMEDIES. Value Plastics warrants to Buyer that the Products shall be free from defects in materials and workmanship. Any claims for breach of the foregoing warranty shall only be valid if Buyer makes such claim within sixty (60) days of the date of shipment of

the Product to which the claim relates, or such shorter period specified on a quote, if any, by notifying Value Plastics Sales Department in writing and obtaining a Return Material Authorization Number for the return of the Products (which is to be referenced on all return shipping documents). Buyer's exclusive remedy and Value Plastics' sole liability for any breach of the foregoing warranty shall be for Value Plastics, at Value Plastics' sole option, to repair, replace or modify the defective Product, or refund to Buyer the purchase price paid by Buyer for the defective Product. The warranty service shall be performed at Value Plastics' factory. In order to receive the warranty service, Buyer must return the defective Product within 30 days of notification from Buyer hereunder. All warranty claims will be handled pursuant to Value Plastics' standard RMA procedures. If Value Plastics determines that the original Products were not defective, Buyer shall reimburse Value Plastics all costs of handling, transportation and repairs at Value Plastics' prevailing rates. All defective Products returned under this warranty which are replaced or for which a refund is given to Buyer shall become Value Plastics property. **THE WARRANTY SET FORTH IN THIS SECTION 10 IS IN LIEU OF ALL OTHER WARRANTIES AND VALUE PLASTICS HEREBY EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, INFRINGEMENT AND FITNESS FOR PARTICULAR USE.** Any repair or attempt to repair Products by anyone other than an authorized representative of Value Plastics automatically voids any warranty on those Products. Value Plastics' parts are not intended for human implantation or use in aircraft applications. Buyer may request free samples for testing and evaluation.

11. INDEMNIFICATION. Buyer shall indemnify and hold harmless Value Plastics from all losses, claims, damages, expenses or liabilities of any kind (including attorney's fees and court costs) resulting from or arising out of any use by Buyer of the Products.

12. LIMITATIONS ON LIABILITY. Value Plastics shall not be liable for any loss or damage caused by delay in furnishing the Products. **UNDER NO CIRCUMSTANCES SHALL VALUE PLASTICS BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL, COLLATERAL, SPECIAL, PUNITIVE, TREBLE, EXEMPLARY OR INCIDENTAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS OR GOODWILL) WHETHER SUCH CLAIM IS BASED ON CONTRACT, NEGLIGENCE, TORT, WARRANTY OR ANY OTHER BASIS UNDER OR AS A RESULT OF THIS CONTRACT OR THE PRODUCTS, IRRESPECTIVE OF WHETHER VALUE PLASTICS HAS BEEN ADVISED OF THE POSSIBILITY OF ANY SUCH LOSS OR DAMAGE. IN NO EVENT SHALL VALUE PLASTICS' AGGREGATE LIABILITY UNDER OR AS A RESULT OF THIS CONTRACT EXCEED THE TOTAL AMOUNTS ACTUALLY PAID BY BUYER FOR THE PRODUCTS PURCHASED UNDER THIS CONTRACT.** The parties agree that the limitations on liability set forth in this Contract are independent of any exclusive or limited remedies, and shall survive and apply even if such remedies are found to have failed of their essential purpose. No action, regardless of form, arising out of the transactions under this Contract may be brought by Buyer more than 1 year after the events which gave rise to the cause of action occurred.

13. TERMINATION/CANCELLATION. Value Plastics may terminate this Contract or orders placed hereunder with notice to Buyer if (a) Buyer fails to pay when due any sums payable hereunder and such failure continues for ten (10) days after the due date or (b) Buyer materially breaches its obligations hereunder, other than the payment of money, and such breach continues for a period of twenty (20) days after receipt by Buyer of written notice from Value Plastics specifying such breach. Buyer may not cancel all or any portion of an order for which Products have been shipped.

14. PROPRIETARY INFORMATION. Value Plastics Products are components designed and manufactured to specifications developed, maintained, and controlled by Value Plastics. For the purpose of processing orders, Value Plastics requires no proprietary information from Buyer, and specifically requests that buyers refrain from including any information that may be considered proprietary. Buyer agrees that all non-public information furnished to Buyer by Value Plastics, including any variations in pricing from Value Plastics' standard prices for Products, is proprietary to Value Plastics and such information shall be held in confidence and shall not be used or disclosed by Buyer without Value Plastics' prior written consent. Buyer shall enforce against its employees and agents these obligations of confidentiality.

15. INSTALLMENT. Value Plastics' failure to deliver, or nonconformity of, any installment under any installment agreement with, or blanket order from, Buyer shall not be a breach of this entire Contract.

16. EXPORT REGULATIONS; PERMITS. Buyer will comply with the provisions of the United States Government's Export Administration regulations and related documentation requirements and internal control procedures. Buyer shall be responsible for obtaining any necessary export or import licenses and permits.

17. APPLICABLE LAW; VENUE. This Contract shall be governed by and construed in accordance with the internal laws (and not the laws of conflicts) of the State of Colorado. The parties expressly waive the application of the United Nations Convention on Contracts for the International Sale of Goods to this Contract. Any action at law, suit in equity, or judicial proceeding of any kind arising directly, indirectly, or otherwise in connection with, out of, related to or from this Contract or the relationship between the parties shall be litigated only in the state or federal courts located in the City and County of Denver, Colorado and the parties waive any right they may have to challenge the jurisdiction of this court or seek to bring any action in any other forum, whether originally or by transfer, removal, or change of venue. The losing party in a lawsuit shall pay its own and the prevailing party's attorney's fees and expenses.

18. MISCELLANEOUS. This Contract and any other agreement or document entered into by the parties which incorporate these Terms and Conditions by reference, constitute the final, complete, exclusive and entire agreement between the parties and supersede all prior or contemporaneous agreements, written or oral, regarding the subject matter of this Contract. The failure of Value Plastics to enforce at any time any of the provisions of this Contract shall not be construed to be a waiver of such provisions nor the right of Value Plastics to enforce such provisions in the future. Buyer may not assign any rights under this Contract or this Contract in whole or in part without the prior written consent of Value Plastics. Any prohibited assignment shall be null and void. This Contract shall inure to the benefit of successors in interest and permitted assigns. Value Plastics may subcontract any of its obligations hereunder. If any provision of this Contract is found to be invalid or unenforceable in any respect, the validity and enforceability of the remaining provisions shall not be affected. The parties may only modify this Contract in a writing signed by both parties.

Value Plastics, Inc. Faxable Order Form: 970-223-0953**Ship To:**

Company _____

Attn: _____

Address: _____

City _____ State/Province _____

Postal Code _____ Country _____

Phone () _____ Fax () _____

Email: _____

Purchase Order Number

Your V.P. Account Number (if known) _____

Bill To: (If different than shipping.) Must match credit card if used

Company	Revenue	Profit	Assets	Liabilities	Equity
Company A	100	20	120	80	40
Company B	150	30	180	120	60
Company C	200	40	240	160	80
Company D	250	50	300	200	100
Company E	300	60	360	240	120
Company F	350	70	420	280	140
Company G	400	80	480	320	160
Company H	450	90	540	360	180
Company I	500	100	600	400	200
Company J	550	110	660	440	220
Company K	600	120	720	480	240
Company L	650	130	780	520	260
Company M	700	140	840	560	280
Company N	750	150	900	600	300
Company O	800	160	960	640	320
Company P	850	170	1020	680	340
Company Q	900	180	1080	720	360
Company R	950	190	1140	760	380
Company S	1000	200	1200	800	400

Attn: _____

Address: _____

City _____ State/Province _____

Postal Code Country

Phone () _____ Fax () _____

Email: _____

Credit Card No. _____ Exp. _____ / _____

(Visa, Mastercard or American Express Only)

Name On Card _____ Verification Code _____

[illegible]

RETURN POLICY: To maintain the integrity of all Value Plastics' products, Value Plastics does not accept returns. Product samples for testing are available prior to order placement, please contact Inside Sales for details, 970-267-5200 ext - 601.

You may fax this form to **970-223-0953** or send to:

ORDERS: Value Plastics

3325 South Timberline Road

Fort Collins, CO 80525 USA

Subtotal (USD) \$.

CA & IN resale certificate must be on file.
If no certificate available, add CA & IN State Tax \$.

Shipping (call for details) \$.

Misc \$.

GRAND TOTAL \$

Shipping Options

Carrier (Check box)		Account Number if Applicable	Circle delivery service requested			
<input type="checkbox"/>	UPS		Ground	3-Day	2-Day	Next Day
<input type="checkbox"/>	UPS International		Worldwide Standard	Worldwide Expedited	Worldwide Express	
<input type="checkbox"/>	FedEx		Ground	3 Day express saver	2 Day Economy	Standard Overnight
<input type="checkbox"/>	FedEx International		Ground	Economy	Priority	
<input type="checkbox"/>	Global Express		3-5 Days			
<input type="checkbox"/>	DHL		Ground	2nd Day: USA	Next Day: USA	Express: Worldwide
<input type="checkbox"/>	Other	Please call for availability				

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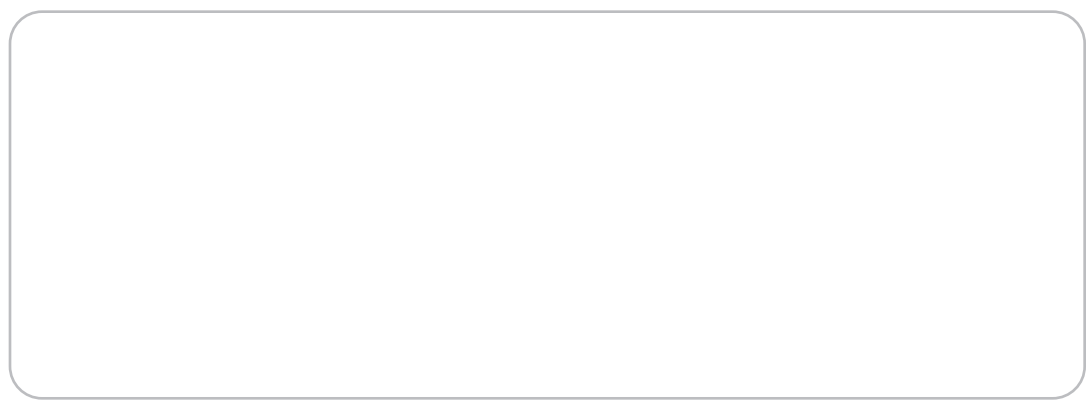
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