CPC WARRANTY STATEMENT: CPC (Colder Products Company) warrants its products against defects in workmanship and materials for a period of 12 months from the date of sale by CPC to its initial customer (regardless of any subsequent sale of the products). This warranty is void if the product is misused, altered, tampered with or installed in a manner that is inconsistent with CPC’s written recommendations, specifications and instructions, or both in part or in whole and that CPC does not warrant the suitability of the product for any particular application. Determining product application suitability is solely the customer’s responsibility. CPC is not liable for special, indirect, incidental, consequential or other damages including, but not limited to, loss, damage, personal injury, or any other expense directly or indirectly arising from the use of or inability to use the products or to replace the defective product or any other expense directly or indirectly arising from the use of or inability to use the products either separately or in combination with other products. ALL OTHER WARRANTIES EXPRESS OR IMPLIED, WHETHER ORAL, WRITTEN OR IN ANY OTHER FORM, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED. The sole and exclusive remedy under this warranty is limited, at the option of CPC, to replacement of the defective product or an account credit in the amount of the original selling price. All allegedly defective CPC products must be returned prepaid transportation to CPC, together with information describing the product’s application and performance, unless otherwise authorized in writing by CPC.

CPC PATENT STATEMENT: CPC takes pride in its innovative quick disconnect coupling and fittings solutions, many of which have been awarded United States and international patents. CPC has a strong tradition of leadership in the quick disconnect market, and aggressively pursues and protects its proprietary information and intellectual property. In cases where it is practical and has a benefit to its customers, CPC has licensed its proprietary technology. Please contact CPC to discuss your unique needs.

CPC TRADEMARK STATEMENT: AseptiQuik®, BottleQuik®, BreakAway®, ChemQuik®, DrumQuik®, FitQuik®, IdentiQuik®, Nu-Seal®, SnapQuik®, Steam-Thru®, Softube® are registered trademarks with the U.S. Patent & Trademark Office. All other trademarks or service marks are property of their respective owners.

WARNING: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of CPC. It is the user’s responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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Smart fluid handling to take you forward, faster.
CPC (Colder Products Company) has been designing and manufacturing quick disconnect couplings, fittings and connectors since 1978. Our broad range of products are found in thousands of applications across many life sciences, specialty industrial and chemical handling markets. Used in a wide range of products, machinery, devices and processes, CPC’s innovative coupling and connection technologies allow flexible tubing to be quickly and safely connected and disconnected. The robust and easy-to-use design of CPC’s quick disconnect couplings and fittings provides reliable, secure and leak-free connections for fluid and air management. CPC makes people’s lives better by developing innovative high quality products that make fluid handling safe and easy.

WHERE TO BUY
Find your local distributor by visiting cpcworldwide.com or call CPC’s Customer Service at 1-800-444-2474 or 651-645-0091. You can also send an email to info@cpcworldwide.com.

QUALITY
CPC meets or exceeds our customers’ expectations. Everyone is involved, from our suppliers to our distribution network, and most importantly, our employees. CPC measures and continually improves our standards of product quality, support services and overall customer and employee satisfaction. CPC’s Quality System conforms to ISO 9001:2008 and ISO 13485 standards. Our cleanroom is ISO Class 7 certified.

NEW PRODUCTS
Exciting additions to CPC’s product offering include:

- NS1 Series Connectors  Page 24
- NS4 Series Connectors – Elbow Page 60
- LQ4 Series Connectors  Page 62
- LQ6 Series Connectors  Page 66
- BQ45GL Series Connectors Page 86
- Hybrid Connectors  Page 88
- MPC/MPX Back-to-Back Insert Adapters Page 109
- Genderless AseptiQuik® G Connectors Page 122
- AseptiQuik® G STC Connectors Page 132
OUR CAPABILITIES

CPC’s engineered, custom solutions improve the overall functionality and design of the equipment and processes in which they are used. Special product features include: precise hose barbs for superior grip, built-in shutoff valves to prevent product spills and an easy-to-use, push-button thumb latch for quick connecting and disconnecting. CPC’s patented Hybrid Connector technology platform eliminates misconnections by integrating electrical, fluid and gas lines into a single connection point. RFID-enabled Identiquik® couplings redefine what’s possible for controlling, protecting and streamlining fluid handling processes. Identiquik technology allows the robust transfer of fluid and information to identify device type or connected media, verify line connection accuracy or capture fluid and product data. Specific applications for CPC connection technologies include:

**LIFE SCIENCES**
CPC’s products are used across a broad range of medical devices and equipment, including surgical, dialysis, blood pressure monitoring, patient therapy devices, and in vitro diagnostics. A de facto standard in several applications, CPC connectors improve patient safety, prevent misconnections and increase the overall usability and effectiveness of medical devices. Medical device OEMs around the world choose CPC connectors because of our proven performance in the operating room, the life science lab and the home healthcare setting. CPC is the leader in single-use connection technology for bioprocessing applications, offering a wide variety of solutions including sterile connect and sterile disconnect. Our innovative designs offer the flexibility to easily combine multiple components and systems including process containers, tubing manifolds, transfer lines, bioreactors and other bioprocess equipment. CPC’s robust connectors maintain media sterility and integrity while improving production yields, reducing costs and decreasing time to market for biopharmaceutical manufacturers. Genderless connector technology simplifies the design process, reduces supply chain complexity and eases manufacturing integration for biopharmaceutical manufacturers.

**SPECIALTY INDUSTRIAL**
CPC’s couplings and fittings are installed in thousands of product applications. Our broad offering appeals to product manufacturers in a wide range of industrial and consumer-based markets, including analytical instrumentation, printing and ink management, engine systems, bihazard detection equipment, electronic cooling and portable hydration systems.

**CHEMICAL HANDLING**
CPC’s extensive options for chemically resistant quick disconnect fittings, closures, couplings and chemical dispensing systems provide non-spill operation and improve the safety of chemical management environments. Applications include semiconductor, LCD, solar, pharmaceutical manufacturing and chemical management, pump, filter and de-ionized water connections, cleaning, soap and detergent dispensing, bulk ink management and consumer-based applications.

Closed-loop dispensing systems enable fast, easy and economic chemical extraction from drums, IBCs and Jerry cans. These systems increase workplace safety and protect workers and the environment from hazardous leaks and spills.

ENGINEERED SOLUTIONS WORLDWIDE
CPC innovates on the leading edge of what is possible and collaborates to develop the best solution for each customer. Many of CPC’s standard couplings and fittings began as custom engineered solutions that found broader use in applicable markets. CPC delivers unmatched product design and quality with local engineering support in the United States, Europe and Asia. To date, CPC has produced over 10,500 custom and standard products to meet the fluid handling challenges of various industries worldwide.
INTRODUCTION

How to Choose the Right Connector

INTRODUCTION

With so many connection options, it can often be an overwhelming task to decide which connector is best suited for an application. By understanding your application requirements and selecting the correct connection type, you will have better performance and sealing results.

ASSESSING THE APPLICATION

Understanding your application is the key to selecting the proper connection. Use the following guide to simplify your selection.

FLOW

What is your required flow and pressure drop? Be sure to allow for the effect of shutoff valves and tubing connections on your calculations.

TUBING MEDIA

What size tubing, both inner and outer diameter, are you using? The viscosity and corrosiveness of the fluid going through the connection need to be considered. Make sure the media is chemically compatible with ALL coupling materials, including the seals, o-rings and springs. Double-check media compatibility.

TEMPERATURE

Know your minimum and maximum temperature range. Standard temperature ranges are from -40° to 200° F (-40° to 93° C) depending on connection material.

PRESSURE

What is the maximum pressure your connection will need to withstand during operation? Quick disconnects rated to 250 psi (17 bar) will handle most low pressure applications.

TUBING CONNECTIONS

Type: Hose barb, compression fittings and push-to-connect are the most common termination styles.

SHUTOFF OPTIONS

Do you need automatic or integral shutoff valves? Shutoff options are single, double and non-spill.

MOUNTING OPTIONS

How is the connection going to be configured into your application? Common mounting options include pipe thread, panel mount, in-line or elbow.

SPECIAL REQUIREMENTS

Sterilization, NSF listed, USP Class VI approved materials, special packaging, color coding, keying, lot traceability, etc.

Global Distribution

Find your local distributor by visiting cpcworldwide.com/ContactUs or call CPC’s Customer Service at 1-800-444-2474 or 651-645-0091.

Quality

Quality is a key component of CPC’s success. We are ISO 9001:2008 and ISO 13485:2003 certified and our cleanroom is ISO Class 7 certified.

Visit us online for interactive web tools

FIND A DISTRIBUTOR

cpcworldwide.com
Quick Disconnect Couplings
and Connectors.

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The type of media flowing through a connection can affect the strength, surface appearance, color and performance of the connection. Here are some guidelines for the different types of material.

**THERMOPLASTICS**

**ABS**
Economical, medical-grade thermoplastic that withstands gamma and e-beam sterilization. It is commonly used in medical devices. ABS is an amorphous material with good physical properties and high resistance to chemical attack.

**ACETAL**
Strong, lightweight and economical material used for a wide variety of chemical and mechanical components. Acetal offers high strength and rigidity over a broad temperature range, low wear, toughness and resistance to repeated use.

**POLYAMIDE (NYLON)**
Very resistant to wear and abrasion, good mechanical properties even at elevated temperatures, low permeability to gases and good chemical resistance.

**PEEK (POLYARYLETHYENETRIMETHYLENE)**
Highly temperature resistant, engineered thermoplastic with excellent chemical and fatigue resistance. It exhibits superior mechanical and electrical properties.

**POLYCARBONATE**
Resistant to some chemicals, withstands sterilization and is typically transparent. It is commonly used in medical devices and offers impact resistance, outstanding dimensional stability and good optical properties.

**POLYETHYLENE**
Low cost, chemically resistant thermoplastic. It is opaque and can withstand reasonably high temperatures.

**POLYPROPYLENE**
Excellent general purpose resin that is highly resistant to chemical attack from solvents and chemicals in harsh environments. In general, polypropylene is resistant to environmental stress cracking and it can be exposed to challenging environments.

**POLYSULFONE**
Rigid material with excellent strength, good chemical resistance; withstands repeated sterilization and higher temperatures than other thermoplastics. Its high hydrolytic stability allows its use in medical applications requiring repeated high temperature autoclave and steam sterilization.

**PPS (POLYPHENYLENE SUFONE)**
Broadest resistance to chemicals as an advanced engineering plastic.

**FLUOROPOLYMERS**

**PTFE**
Chemically resistant to all chemicals and solvents with the exception of some molten metals, molten sodium hydroxide, elemental fluorine and certain fluorinating agents. PTFE offers chemical resistance and stability at high temperature.

**PVDF**
Tough engineering thermoplastic with a balance of physical and chemical properties that qualifies it for high performance in a wide range of applications. It is mechanically strong and tough, has good ductility and has a broad, useful temperature range.

**ALLOYS**

**ALUMINUM**
Lightweight metal with an available hard anodized finish for durability. Aluminum is non-toxic, non-magnetic, non-sparking and is known for its high strength to weight ratio.

**CHROME PLATED BRASS**
Rugged metallic material with an attractive appearance, chrome-plated brass is excellent for higher pressure and temperature.

**DIE-CAST ZINC**
Durable and light weight (about 20% less than comparable brass) material that withstands high pressure and temperature.

**STAINLESS STEEL**
Offers excellent rust resistance and is often used for connector components such as valve springs.

**O-RING SELECTION**
Selecting the correct o-ring is directly related to your application. One o-ring can offer you better chemical resistance, another can offer better heat resistance, a third can offer cold flexibility. Here are some guidelines for the different types of o-rings.

**BUNA-N**
The most common o-ring material is Buna-N due to its solvent, oil and water resistance. It has a temperature range of -40° to 250° F (-40° to 121° C).

**EPDM**
Ethylene-propylene-diene rubber (EPDM, also sometimes referred to as EPR) is a chemically-resistant family of compounds. CPC uses high quality peroxide-cured EPDMs that provide exceptional resistance to temperatures when using a wide range of chemicals.

**FFKM (CHEMRAZ®, SIMBIZ®, KALREZ®)**
Broadest range of chemical resistance of any elastomeric material, combining the resilience and sealing force of an elastomer with chemical resistance approaching that of PTFE.

**FKM**
Well-known for its outstanding resistance to heat, oxidation, weathering and ozone. The temperature range is -15° to 400° F (-26° to 204° C).

**PFA & FEP ENCAPSULATED SEALS**
Encapsulated seals combine the resiliency of the elastomer with chemical resistance of the fluoro polymer to achieve a seal that is lower cost than a pure fluoroelastomer FFKM seal. Seals have good temperature resistance. The temperature range is -70°F to 400°F (-57°C to 204°C). Silicone can also be supplied with Class VI requirements for life sciences applications.

**SILICONE**

**ELASTOMERS**

**TPE**
Thermoplastic Elastomer (TPE) is a blend of additives and copolymers in a special formulation that forms extremely durable bonds to a substrate, while offering the traditional properties of soft touch overmold.

**TPV**
Thermoplastic Vulcanizate (TPV) is an alloy of polypropylene thermoplastic, and fully vulcanized EPDM rubber. TPV is typically resistant to water, acids and bases.

**THE RIGHT NUMBER OF BARBS**
Many things work together to determine the quality of the connection between a hose barb and the tubing it connects. The sharpness of the barb, surface finish and the barb angle all contribute to the overall quality of the connection. Failing to optimize these technical aspects will result in a poor connection, regardless of the number of hose barbs used.

CPC offers a variety of hose barb styles and connection options for tubing ranging from 1/16” to 1” ID.
CUSTOM CAPABILITIES

Connector solutions from CPC add value to your product by making your fluid and air connections easy to use and more reliable, increasing your product’s modularity and serviceability and providing an overall cleaner, faster, safer and smarter way to make a connection. If you can’t find the perfect solution from one of our thousands of standard products or you’d like to simply off-load the connector portion of your project to allow you to focus on your core technologies, CPC Engineered Solutions can help.

HYBRID COUPLINGS
Connect both fluid and electronics—all at the same time in a single connection.

RFID-ENABLED INTELLIGENT FLUID CONNECTIONS
Redefine what’s possible for controlling, protecting and streamlining fluid handling processes. Identify misconnections, control usage and protect your brand.

METAL NON-SPILL COUPLINGS
Robust housing with high flow plastic valves.

CUSTOM MATERIALS
A wide range of materials are available to meet application needs.

MULTI-TUBE COUPLINGS
Connect multiple lines with one easy connection.

CUSTOM TUBE CONNECTIONS
Connect to a wide variety of types and sizes of tubing.

MOUNTING OPTIONS
Application-specific connections including threads, caps, snap-fits and more.

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Consider a Custom-Designed Connector When:
- A quick disconnect will add value to your product, make it easier to use and more reliable
- Your specifications cannot be met by an existing standard CPC product
- Unique requirements, budgets or timing warrant your designer’s collaboration with CPC’s Engineered Solutions Team

Custom designed products are exclusively produced for a specific customer. These proprietary products might not be for sale. Contact your local distributor for more information.
## General Purpose Couplings

<table>
<thead>
<tr>
<th>PAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>
| 18   | SMC & SMF: Twist-to-connect design provides reliable and secure alternative to luer-type connections.  
Material: Acetal, polypropylene, ABS, chrome-plated brass  
Tubing ID Sizes: 1/16" to 1/8" (1.6mm to 3.2mm) |
| 22   | SNAPQUIK: Small break away connector for low pressure applications. Unique internal latching mechanism creates a smooth streamlined exterior that is easy to use and clean.  
Material: Acetal  
Tubing ID Sizes: 3/32" to 1/8" (2.4mm to 3.2mm) |
| 26   | NS1: Smallest plastic non-spill coupling features enable secure connection and drip-free disconnect.  
Material: Glass-filled polypropylene, PEEK®, polypropylene  
Tubing ID Sizes: Microbore to 1/8" (Microbore to 3.2mm) |
| 30   | PMC: Features one-hand connection and disconnection and integral terminations; easier to use than ball-and-sleeve designs.  
Material: Acetal  
Tubing ID Sizes: 1/8" to 1/4" (3.2mm to 6.4mm) |
| 38   | NS212: Twist-to-connect design features non-spill valves designed to provide fast, safe, and virtually leak-free fluid line connections.  
Material: Glass-filled polypropylene  
Tubing ID Sizes: 3/8" to 1/4" (10mm to 6.4mm) |
| 40   | PLC: Widest selection of sizes and configurations offered; resistant to most mild chemical solutions.  
Material: Acetal  
Tubing ID Sizes: 1/4" to 3/8" (6.4mm to 9.5mm) |
| 44   | PLC12: Materials of construction offer broad chemical resistance for demanding applications, gamma sterilizable.  
Material: Polypropylene  
Tubing ID Sizes: 1/4" to 3/8" (6.4mm to 9.5mm) |
| 48   | LC: Durable and able to withstand higher pressure and temperature, easy one-hand connections and disconnections.  
Material: Chrome-plated brass  
Tubing ID Sizes: 1/4" to 3/8" (6.4mm to 9.5mm) |
| 52   | APC: Features plastic thumb latch, flow-reining parts and a smooth contoured design deliver ease-of-use and excellent flow.  
Material: Acetal  
Tubing ID Sizes: 1/4" to 3/8" (6.4mm to 9.5mm) |
| 56   | BREAKAWAY: Provides safe and easy fluid transfer with protection from costly product loss and equipment damage.  
Material: Acetal  
Tubing ID Sizes: 1/4" and 3/8" (6.4mm and 9.5mm) |
| 58   | EFC12: High-efficiency valve design provides high flow capability; bulkhead panel mount option facilitates tight seals against tank walls and drums.  
Material: Polypropylene  
Tubing ID Sizes: 1/4" and 3/8" (6.4mm and 9.5mm) |
| 60   | NS4: Non-spill coupling that virtually eliminates spills, minimizes downtime and enhances operator safety.  
Material: Glass-filled polypropylene, ABS  
Tubing ID Sizes: 3/8" and 1/2" (9.5mm and 12.7mm) |
| 62   | LQ4: Liquid cooling non-spill coupling guarantees a secure, reliable connection and dripless disconnect.  
Material: Chrome-plated brass  
Tubing ID Sizes: 1/4" to 3/8" (6.4mm to 9.5mm) |
| 64   | NS6: Durable, yet lightweight construction that features non-spill valves and is compatible with many chemicals.  
Material: Glass-filled polypropylene  
Tubing ID Sizes: 3/8" and 1/2" (9.5mm and 12.7mm) |

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**TABLE OF CONTENTS**

**LEGEND**

- Straight-Through
- Single Shut-Off
- Double Shut-Off
- Non-Spill

Note: Product images may not be to scale
TABLE OF CONTENTS

General Purpose Couplings

<table>
<thead>
<tr>
<th>PAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>LQ6: Liquid cooling non-spill coupling guarantees a secure, reliable connection and dripless disconnect. Material: Chrome-plated brass. Tubing ID Sizes: 3/8” to 1/2” ID (9.5mm to 12.7mm ID)</td>
</tr>
<tr>
<td>68</td>
<td>NSH: Pressure-balanced non-spill design with 30% metal-free, spring-free flow path. Material: Glass-filled polypropylene. Tubing ID Sizes: 3/8” to 1/2” ID (9.5mm to 19.0mm)</td>
</tr>
<tr>
<td>70</td>
<td>HFC12: Efficient valve design leads to high flow and exceptionally low spillage; shrouded thumb latch is easy to grip and simple to operate. Material: Polypropylene. Tubing ID Sizes: 3/8” to 1/2” ID (9.5mm to 15.9mm)</td>
</tr>
<tr>
<td>74</td>
<td>HFC35 &amp; 57: Withstand harsh environments and offer with or without UV-resistant materials to withstand harmful rays without affecting performance. Material: Polypropylene (white), UV-resistant polypropylene (black). Tubing ID Sizes: 3/8” to 3/4” ID (9.5mm to 19.0mm)</td>
</tr>
<tr>
<td>78</td>
<td>FF35: Features non-valved and unobstructed flow path to increase flow and minimize turbulence. Material: Polypropylene. Tubing ID Sizes: 3/4” to 1” ID (19.0mm)</td>
</tr>
</tbody>
</table>

Specialty Products

<table>
<thead>
<tr>
<th>PAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>TENTUBE™: Allows connection and disconnection of up to ten lines with one slide latch, tubing orientation ensured by physical keying. Material: Metal, metal, polypropylene. Tubing ID Sizes: 3/16” to 1/4” ID (1.6mm to 3.2mm)</td>
</tr>
</tbody>
</table>

Specialty Products (cont.)

<table>
<thead>
<tr>
<th>PAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>82</td>
<td>SIXTUBE™: Snap-in panel mount design and flexibility to connect and disconnect up to separate lines with or without valves. Material: Acetal, polypropylene. Tubing ID Sizes: 1/16” to 1/8” ID (1.6mm to 3.2mm)</td>
</tr>
<tr>
<td>84</td>
<td>MULTI-MOUNT: Connects three to five lines at once; keyed to prevent mismatched connections. Material: Acetal, chrome-plated brass. Tubing ID Sizes: 1/8” to 1/4” ID (3.2mm to 5.0mm)</td>
</tr>
<tr>
<td>86</td>
<td>BQ45GL: Quick disconnect coupling or fitting integrated into a cap designed for 45GL bottles. Material: Polyethylene</td>
</tr>
<tr>
<td>88</td>
<td>HYBRID CONNECTOR: One integrated connector combining 2 fluid lines with non-spill couplings and 4 electrical lines to simplify the user interface. Material: Glass-filled polypropylene</td>
</tr>
<tr>
<td>90</td>
<td>MINI HYBRID CONNECTOR: Compact, single connection point combining 1 fluid line with 2 electrical lines with a breakaway mechanism for ease of use. Material: Glass-filled polypropylene</td>
</tr>
<tr>
<td>92</td>
<td>INTELLIGENT FLUID CONNECTIONS: Redefine what’s possible for controlling, protecting and streamlining fluid handling with RF-enabled couplings. Material: Acetal, polypropylene, glass-filled polypropylene</td>
</tr>
</tbody>
</table>

Intelligent Fluid Connections

<table>
<thead>
<tr>
<th>PAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>

LEGEND

Straight-Through

Single Shut-Off

double Shut-Off

Non-Spill

Note: Product images may not be to scale

Smart fluid handling to take you forward, faster.
## TABLE OF CONTENTS

### Life Sciences - Medical & Bioprocessing

<table>
<thead>
<tr>
<th>PAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>SMC: Switch-to-connect design manufactured and packaged in a class 100 class 100 cleanroom. Medical-grade polycarbonate. Tubing ID Sizes: 1/8” to 1/2” (3.2mm to 12.7mm)</td>
</tr>
<tr>
<td>104</td>
<td>SRC: A unique small bore connector that eliminates the potential for misconnections with bar fittings. Medical-grade polypropylene.</td>
</tr>
<tr>
<td>106</td>
<td>MPC: Easy-to-use and secure connection for critical fluid applications; includes pressure sealing caps and plugs with optional locking sleeves. Medical-grade grade ABS, medical-grade polycarbonate and polysulfone (USP Class VI, ADCF). Tubing ID Sizes: 3/8” to 3/4” (9.5mm to 19.0mm)</td>
</tr>
<tr>
<td>109</td>
<td>BACK-TO-BACK ADAPTERS: Allow end users to connect single-use systems that may feature identical connections at the end of their tubing. Medical-grade polycarbonate and polysulfone, USP Class VI, ADCF.</td>
</tr>
<tr>
<td>110</td>
<td>MPX: Larger flow, easy-to-use and secure connection for critical fluid applications, includes pressure sealing caps and plugs with optional locking sleeves. Medical-grade polycarbonate and polysulfone, USP Class VI, ADCF. Tubing ID Sizes: 3/4” to 1-1/2” (19.0mm to 31.8mm)</td>
</tr>
<tr>
<td>112</td>
<td>SANITARY SERIES: Attaches directly to 3/4”, 1” and 1-1/2” sanitary terminations; provides greater flexibility for integrating components into a single-use or hybrid process systems. Medical-grade grade polycarbonate, USP Class VI, ADCF. Termination Sizes: 3/4”, 1” and 1-1/2” sanitary.</td>
</tr>
<tr>
<td>114</td>
<td>SANQUIK™: Integral sanitary termination attaches to hard-plumbed systems with tri-clamp clamps; permits quick and easy connection to single-use bag systems, manifolds or tube sets. Medical-grade grade stainless steel. Termination Sizes: 3/4” and 1-1/2” sanitary.</td>
</tr>
<tr>
<td>116</td>
<td>MPU: Larger flow twist-to-connect design features easy-to-use locking mechanism that guards against accidental disconnects. Medical-grade grade polysulfone, USP Class VI, ADCF. Tubing ID Sizes: 3/4” (19.0mm)</td>
</tr>
</tbody>
</table>

### Life Sciences - Medical & Bioprocessing

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</tr>
</thead>
<tbody>
<tr>
<td>118</td>
<td>HFC39: Features sterile disconnect functionality with automatic shut-off valve, preventing external organisms from entering the media flow path upon disconnection. Medical-grade polycarbonate, USP Class VI, ADCF. Termination Sizes: 1/4”, 3/8” and 1/2” HB (6.4mm, 9.5mm, 12.7mm)</td>
</tr>
<tr>
<td>120</td>
<td>ASEPTIQUIK® S: Genderless design provides quick and easy sterile connections for small flow applications. Medical-grade polycarbonate, USP Class VI, ADCF. Termination Sizes: 1/4”, 3/8” and 1/2” HB (6.4mm, 9.5mm, 12.7mm) and 3/4” sanitary and MPC insert.</td>
</tr>
<tr>
<td>122</td>
<td>ASEPTIQUIK® G: Robust genderless connectors provide quick and easy sterile connections and simplify systems integration. Medical-grade polycarbonate, USP Class VI, ADCF. Termination Sizes: 1/4”, 3/8”, 1/2”, 3/4” ID hose barb (6.4mm, 9.5mm, 12.7mm, 19.0mm) and 3/4” sanitary.</td>
</tr>
<tr>
<td>124</td>
<td>ASEPTIQUIK® C: Provides a quick and easy sterile connection, even in non-sterile environments. Medical-grade polycarbonate, USP Class VI, ADCF. Termination Sizes: 3/16”, 3/8” and 1/2” HB (5.0mm, 9.5mm, 12.7mm) and 3/4” sanitary.</td>
</tr>
<tr>
<td>126</td>
<td>ASEPTIQUIK® DC: All-in-one, single-use connection technology offering both a sterile connect and a sterile disconnect. Medical-grade polycarbonate, USP Class VI, ADCF. Termination Sizes: 1/4”, 3/8” and 1/2” HB (6.4mm, 9.5mm, 12.7mm)</td>
</tr>
<tr>
<td>128</td>
<td>ASEPTIQUIK® X: Robust large format design enables quick sterile transfer for high flow single-use applications. Medical-grade polycarbonate, USP Class VI, ADCF. Termination Sizes: 3/4” and 1” ID hose barb (19.0mm and 25.4mm) and 1-1/2” sanitary.</td>
</tr>
<tr>
<td>130</td>
<td>STEAM-THRU® CONNECTIONS: Allow quick and easy sterile connection via SIP between biopharmaceutical processing equipment and disposable bag and tube assemblies. Medical-grade polycarbonate, USP Class VI, ADCF. Termination Sizes: 3/8” and 1/2” HB (9.5mm and 12.7mm) and 3/4” sanitary.</td>
</tr>
<tr>
<td>132</td>
<td>ASEPTIQUIK® STC: A robust genderless AseptiQuik sterile connect to be伊斯兰教 in stainless steel equipment for SIP. Medical-grade polycarbonate and polysulfone, USP Class VI, ADCF.</td>
</tr>
</tbody>
</table>
Dispensing Connectors (cont.)

138 CHEMQUIK COHO5/CQV05: All plastic design for ultra-pure media and high chemical resistance.
Material: Natural, virgin polypropylene and PVDF
Tubing Sizes: 1/4” to 1/2” flare, 3/8” to 3/4” NPT

140 CHEMQUIK CQGO5: Spring-free and metal-free fluid path for high flow capacity and non-spill, high purity connections.
Material: Natural, virgin polypropylene
Tubing Sizes: 3/8” to 3/4” flare, 3/8” to 3/4” NPT

141 CHEMQUIK DUAL CONTAINMENT SYSTEM: Flare nuts and panel mount fittings that facilitate double containment of critical chemical lines.
Material: Natural, virgin polypropylene

142 DRUMQUIK® PRO & DRUMQUIK PUR: Closed chemical dispensing system with a reusable coupler and a reusable dip-tube assembly for chemical extraction from drums, jerry cans and IBCs.
Material: Food grade, virgin polypropylene and polyethylene
Thread Sizes:
Drum Inserts: 2” American buttress, BCS 56x4 and 2” NPS (G8), 70mm for BCS 70x5 and BCS70x6
Couplers: 1/2” NPT, 3/4” hose barb and 3/4” BSPP

144 DRUMQUIK ADAPTORS AND ACCESSORIES: CPC offers many accessories intended for use with DrumQuik® PRO and DrumQuik PUR systems. These include vent check valves, foot valves, fittings and more.

145 CHEMQUIK 3-PORT UDA: Used with 3/4” male NPT coupling terminations to adapt dip-tubes to standard drum closures for closed system dispensing.
Material: Food grade, virgin polypropylene
Thread Sizes: UDA: 3-Port; 3/4” male NPT; UDA: none

146 BOTTLE ADAPTOR KITS: Intended for use on rectangular bottles, equipped with PVDF-steel threads.
Material: Natural, virgin polypropylene
Thread Sizes: SP400-38mm

147 DRUMQUIK ASIAN DRUM ADAPTORS, PLUGS AND CAPS

148 UDC: Provides closed connection to bag-in-box packaging with 38mm threaded snap-in necks.
Material: Polypropylene and acetal
Tubing ID Sizes: 3/8” to 3/4” (9.5mm to 19.0mm)

149 UDQ: Provides closed connection to Hedwin Cubitainer™ bag-in-box container systems and flexible bags or bottles with SP400 38mm threads.
Material: Polypropylene (coupling) and polyethylene (cap)
Tubing ID Sizes: 1/4” and 3/8” (6.4mm and 9.5mm)

150 PUNCTURE SEAL: Provides closed connection to Hedwin Cubitainer™ bag-in-box container systems and flexible bags or bottles with SP400 38mm threads.
Material: Polypropylene (coupling) and polyethylene (cap)
Tubing ID Sizes: 3/8” and 3/4” (9.5mm and 19.0mm)

151 FITQUIK® CONNECTORS: High-quality fittings for leak-free tubing connections. These precision-molded fittings are designed to eliminate tubing leak points in applications such as medical devices, analytical instrumentation or air-driven equipment.

152 ACCESSORIES: Offering includes a variety of auxiliary components from fittings and luers to PTF nuts and dust caps.

153 STERILIZATION AND DISINFECTANT METHODS

154 REGULATORY AND COMPLIANCE

Additional Products and Information
These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

**Specifications**

**PRESSURE:**
Vacuum to 100 psi, 6.9 bar

**TEMPERATURE:**
- Acetal, Chrome-Plated Brass: -40°F to 180°F (-40°C to 82°C)
- Polypropylene: 32°F to 180°F (0°C to 82°C)
- ABS: -40°F to 160°F (-40°C to 71°C)

**MATERIALS:**
- Main Components: ABS, acetal, polypropylene, chrome-plated brass, stainless steel
- Locking sleeves: Acetal
- Valves: Acetal
- Valve spring: 316 stainless steel
- O-rings: Buna-N with acetal or chrome-plated brass, EPDM with polypropylene

**COLOR:**
- Main components: Natural white (acetal and ABS), almond (polypropylene), chrome and black

**TUBING SIZES:**
1/16” to 1/8” ID, 1.6mm to 3.2mm and 5.0mm

**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC’s products in their own application conditions.

**FEATURES**

**SMC SERIES CONNECTOR**

The SMC and SMF1 are among CPC’s smallest couplings. These twist-to-connect couplings provide a reliable and more secure alternative to luer-type connections. They also allow for the tubing to rotate freely when connected. This important feature prevents both kinked tubing and accidental disconnection during use. The SMC Series is also available with optional RFID (Radio Frequency Identification) capability (page 98) and in polycarbonate material (page 102).

**NOTES:**

Find more information on CPC’s cleanroom products manufactured in CPC’s cleanroom also available. See page 102.
### Coupling Bodies • ACETAL

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBE/TUBE SIZE</th>
<th>METRIC EQ.</th>
<th>STRAIGHT THRU</th>
<th>SHUT-OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>1/8&quot; OD</td>
<td>3.2mm ID</td>
<td>SMF1202</td>
<td>0.86</td>
</tr>
<tr>
<td></td>
<td>1/16&quot; OD</td>
<td>3.2mm ID</td>
<td>SHF12Q1</td>
<td>0.86</td>
</tr>
<tr>
<td></td>
<td>1/8&quot; ID</td>
<td>3.2mm ID</td>
<td>SMF1202</td>
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<td>3.2mm ID</td>
<td>SHF12Q1</td>
<td>0.86</td>
</tr>
<tr>
<td>PANEL MOUNT HOSE BARB</td>
<td>1/8&quot; OD</td>
<td>3.2mm ID</td>
<td>SMF1203</td>
<td>0.48</td>
</tr>
<tr>
<td></td>
<td>1/16&quot; OD</td>
<td>3.2mm ID</td>
<td>SHF12Q1</td>
<td>0.48</td>
</tr>
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</table>

### COUPLING BODIES

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<td>3.2mm ID</td>
<td>SHF12Q1</td>
<td>0.48</td>
</tr>
</tbody>
</table>

### COUPLING INSERTS

<table>
<thead>
<tr>
<th>TERMINATION IN-LINE HOSE BARB</th>
<th>1/8&quot; ID</th>
<th>3.2mm ID</th>
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</thead>
<tbody>
<tr>
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<td></td>
<td>3.2mm ID</td>
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<td>0.75</td>
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</table>

### CHROME-PLATED BRASS

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<th>TERMINATION IN-LINE HOSE BARB</th>
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<th>SHMF1202</th>
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<tr>
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<td>0.48</td>
</tr>
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<td>3.2mm ID</td>
<td>SHF12Q1</td>
<td>0.48</td>
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</tbody>
</table>

### PANEL MOUNT HOSE BARB

<table>
<thead>
<tr>
<th>TERMINATION IN-LINE HOSE BARB</th>
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<th>3.2mm ID</th>
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<td>0.76</td>
</tr>
<tr>
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<td></td>
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### METRIC EQ.

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### PANEL MOUNT HOSE BARB

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### SMC Complete In-Line Couplings

#### ACETAL

<table>
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<th>TERMINATION IN-LINE HOSE BARB</th>
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<tr>
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#### POLYPROPYLENE

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<td></td>
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</tbody>
</table>

### SMC Dimensions

<table>
<thead>
<tr>
<th>PANEL OPENING</th>
<th>PANEL THICKNESS MAX -- MIN.</th>
<th>PANEL NUT VEL</th>
<th>PANEL NUT THREAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUPLING BODIES</td>
<td>1/8&quot; OD</td>
<td>3.2mm ID</td>
<td>0.75</td>
</tr>
<tr>
<td>1/16&quot; OD</td>
<td></td>
<td>3.2mm ID</td>
<td>0.75</td>
</tr>
<tr>
<td>1/8&quot; ID</td>
<td></td>
<td>3.2mm ID</td>
<td>0.75</td>
</tr>
<tr>
<td>1/16&quot; ID</td>
<td></td>
<td>3.2mm ID</td>
<td>0.75</td>
</tr>
</tbody>
</table>

### Tubing/Thread Size

- 1/8" OD
- 1/16" OD
- 1/8" ID
- 1/16" ID
- 3/32" ID
- 5/64" ID
- 7/64" ID
- 9/64" ID

All measurements are in inches (millimeters), unless otherwise noted. Tubing must meet stated inside and outside diameters. MBLK = molded black material. BLK = dyed black material.

Smart fluid handling to take you forward, faster. cpcworldwide.com • 800-444-2474
SnapQuik® Series Connectors are ideal for small bore applications. The compact design delivers high flow fluid transfer in a small profile. Featuring a unique internal latching mechanism that creates a smooth, streamlined exterior that is easy to clean and use. The user-friendly break away design of SnapQuik prevents misconnections with luers, protects equipment and ensures patient safety.

**Features**
- Break away latch: Intuitive, rapid disconnection
- Internal latch design: Streamlined exterior is easy to clean
- Audible click at connection: Assures reliable connection is made
- Does not mate to luer fittings: Improved patient safety

**Specifications**
- **Pressure:** Vacuum to 15 psi, 1.0 bar
- **Temperature:** 32°F to 122°F (0°C to 50°C)
- **Materials:**
  - Main components: Acetal
  - O-ring: Buna-N
- **Color:** Natural White
- **Tubing Sizes:**
  - 3/32" and 1/8" ID

**SnapQuik Dimensions**

**SnapQuik Water Flow**

**SnapQuik Air Flow, 100 psig Inlet Pressure**

**DID YOU KNOW?**
An alternative to luers, SnapQuik® will not mate with luers designed to the ISO 594 standards.
NS1 SERIES CONNECTOR

NS1 Series couplings: compact design is packed full of features including non-spill shutoff valves that ensure drip-free disconnects, and eliminate the need to purge air from the system. The smallest plastic non-spill coupling on the market, NS1 is perfect for applications with tubing from 1/8-inch and smaller. Its rotating design allows tubing to move freely without kinks. Ideal for applications that need to be connected and disconnected often, the ergonomic, user-friendly interface enables a secure, reliable connect and disconnect.

**Specifications**

**Pressures:**
Vacuum to 15 psi, 1.0 bar

**Temperature:**
32°F to 120°F (0°C to 49°C)

**Materials:**
- Main Components: Glass-filled polypropylene, PEEK®, polypropylene
- Springs: 316 stainless steel
- O-rings: EPDM

**Color:** Gray

**Tubing Sizes:**
- Microbore to 1/8” ID (Microbore to 3.2mm)

**Spillage:**
0.02 cc per disconnect rated @ 15 psi

**Inclusion:**
0.00 cc per connect

**Features**
- Non-spill design
- Closed system for drip-free disconnect
- Ultra low air inclusion
- Minimizes contaminants, eliminates the need to purge air bubbles from the system
- Intuitive interface
- User-friendly ergonomic design enables a secure, reliable connection
- Rotating design
- Allows tubing to move freely or relax without kinking or leaking
- Chemically resistant materials
- Reliable strength and performance in a range of applications

**Benefits**
- Closed system for drip-free disconnect
- Minimizes contaminants, eliminates the need to purge air bubbles from the system
- User-friendly ergonomic design enables a secure, reliable connection
- Allows tubing to move freely or relax without kinking or leaking
- Reliable strength and performance in a range of applications

**Graphs**
This graph is intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

**Panel Dimensions**

<table>
<thead>
<tr>
<th>Panel Opening</th>
<th>Panel Ingress</th>
<th>Panel Nut</th>
<th>Panel Nut Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>29 – 65</td>
<td>5/8</td>
<td>1/2-24UNF</td>
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</tr>
</tbody>
</table>

**Coupling Bodies • Polypropylene**

<table>
<thead>
<tr>
<th>Description</th>
<th>Tubing Size</th>
<th>Metric EQ.</th>
<th>Shutoff</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-Line Hose Barb</td>
<td>1/8” OD or smaller*</td>
<td>3.2 mm OD or smaller*</td>
<td>NS1D170212</td>
<td>0.61</td>
<td>1.33</td>
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<tr>
<td>In-Line with a 1/4-28 Flat Bottom Port</td>
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<td>3.2 mm OD or smaller*</td>
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<tr>
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<td>3.2 mm ID</td>
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<td>0.61</td>
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</table>

**Coupling Inserts • Polypropylene**

<table>
<thead>
<tr>
<th>Description</th>
<th>Tubing Size</th>
<th>Metric EQ.</th>
<th>Shutoff</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1/8” OD or smaller*</td>
<td>3.2 mm OD or smaller*</td>
<td>NS1D220212</td>
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<td>1.04</td>
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<td>In-Line with a 1/4-28 Flat Bottom Port</td>
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<td>3.2 mm OD or smaller*</td>
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<td>0.92</td>
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<tr>
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<td>3.2 mm ID</td>
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<td>0.99</td>
</tr>
<tr>
<td>Panel Mount Hose Barb</td>
<td>1/8” OD or smaller*</td>
<td>3.2 mm OD or smaller*</td>
<td>NS1D420212</td>
<td>0.70</td>
<td>1.56</td>
</tr>
<tr>
<td>Panel Mount with a 1/16-24 Flat Bottom Port</td>
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<td>3.2 mm OD or smaller*</td>
<td>NS1D48042812</td>
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<td>1.45</td>
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</table>

**Accessories**

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulkhead O-Ring</td>
<td>EPDM</td>
<td>731303</td>
</tr>
</tbody>
</table>

**Ferrules**

For 1/4-28 Nuts and Ferrules, see Page 33 or visit CPCWorldwide.com

Smart Fluid handling to take you forward, faster.
PMC SERIES CONNECTOR

The 1/8” flow PMC coupling covers a wide variety of general-purpose applications. Featuring the CPC thumb latch, the PMC is easier to use than ball-and-sleeve designs. One-hand connection/disconnection and integral terminations make the PMC the choice for ease of use and manufacture. This coupling is NuSeal® compatible (see page 27 for details).

Features
- Hose barb shroud: Extra protection for the 1/16” hose barb
- Integral terminations: Fewer leak points, shorter assemblies, faster installations
- Compatible: Mates with PMC12 and MC Series couplings (see pages 30 and 34)
- Clicks when connected: Assurance of a reliable connection

Benefits
- Patented integral seal: Economical, allows for disposability and provides leak-free connections
- Low density polyethylene: Sterilizable by EO, E-beam & gamma
- Chemically resistant: Works in many critical USP Class VI material applications
- Compatible: Mates with MC, PMC, PMC12 couplings

Specifications
- Pressure: Vacuum to 120 psi, 8.3 bar
- Temperature: -40°F to 180°F (-40°C to 82°C)
- Materials: Main components: Low density polyethylene
- Color: Transparent
- Tubing Size: 1/8” ID, 3.2mm ID

Also available in NSF listed versions. Please visit our website for part number information.

Nu-Seal® quick disconnect coupling inserts feature a patented integral seal and are USP Class VI complaint. These economical inserts are ideal for applications that require limited connect/disconnect cycles.

Features
- Patented integral seal
- Economical, allows for disposability and provides leak-free connections
- Low density polyethylene
- Sterilizable by EO, E-beam & gamma
- Chemically resistant
- Works in many critical USP Class VI material applications
- Compatible
- Mates with MC, PMC, PMC12 couplings

Benefits
- Patented integral seal
- Economical, allows for disposability and provides leak-free connections
- Low density polyethylene
- Sterilizable by EO, E-beam & gamma
- Chemically resistant
- Works in many critical USP Class VI material applications
- Compatible
- Mates with MC, PMC, PMC12 couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

C, VALUES FOR 1/8” FLOW PMC COUPLINGS

Nu-Seal® Specifications
- Pressure: Vacuum to 20 psi, 1.4 bar
- Materials: Main components: Low density polyethylene
- Color: Transparent
- Tubing Size: 1/8” ID, 3.2mm ID

Also available in NSF listed versions. Please visit our website for part number information.

Nu-Seal® quick disconnect coupling inserts feature a patented integral seal and are USP Class VI compliant. These economical inserts are ideal for applications that require limited connect/disconnect cycles.

Features
- Patented integral seal: Economical, allows for disposability and provides leak-free connections
- Low density polyethylene: Sterilizable by EO, E-beam & gamma
- Chemically resistant: Works in many critical USP Class VI material applications
- Compatible: Mates with MC, PMC, PMC12 couplings

Benefits
- Patented integral seal: Economical, allows for disposability and provides leak-free connections
- Low density polyethylene: Sterilizable by EO, E-beam & gamma
- Chemically resistant: Works in many critical USP Class VI material applications
- Compatible: Mates with MC, PMC, PMC12 couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.
Coupling Bodies • ACETAL

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>IN-LINE PIPE THREAD</th>
<th>STRAIGHT THRU</th>
<th>SH Payneoff</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” NPT</td>
<td>PMC100X</td>
<td>PMC100X</td>
<td>.79</td>
</tr>
<tr>
<td>1/16” NPT</td>
<td>PMC130X</td>
<td>PMC130X</td>
<td>.79</td>
</tr>
<tr>
<td>1/4” NPT</td>
<td>PMC100X</td>
<td>PMC100X</td>
<td>.79</td>
</tr>
<tr>
<td>5/32” OD, 1/16” ID</td>
<td>PMC120X</td>
<td>PMC120X</td>
<td>.77</td>
</tr>
<tr>
<td>1/4” OD, 1/16” ID</td>
<td>PMC120X</td>
<td>PMC120X</td>
<td>.77</td>
</tr>
<tr>
<td>1/4” OD, 1/16” ID</td>
<td>PMC120X</td>
<td>PMC120X</td>
<td>.77</td>
</tr>
<tr>
<td>1/4” OD</td>
<td>PMC100X</td>
<td>PMC100X</td>
<td>.77</td>
</tr>
<tr>
<td>1/4” ID</td>
<td>PMC100X</td>
<td>PMC100X</td>
<td>.77</td>
</tr>
<tr>
<td>3/16” ID</td>
<td>PMC100X</td>
<td>PMC100X</td>
<td>.77</td>
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<td>3/16” ID</td>
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<td>PMC100X</td>
<td>.77</td>
</tr>
<tr>
<td>3/16” OD</td>
<td>PMC100X</td>
<td>PMC100X</td>
<td>.77</td>
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<tr>
<td>3/16” OD</td>
<td>PMC100X</td>
<td>PMC100X</td>
<td>.77</td>
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<tr>
<td>1/8” ID</td>
<td>PMC100X</td>
<td>PMC100X</td>
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<td>1/8” ID</td>
<td>PMC100X</td>
<td>PMC100X</td>
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</tr>
<tr>
<td>1/8” ID</td>
<td>PMC100X</td>
<td>PMC100X</td>
<td>.77</td>
</tr>
</tbody>
</table>

**Panel Insert Termination**

- ACETAL
- 1/4” OD, 1/16” ID: 4.8mm OD, 4.3mm ID
- 1/4” OD, 1/8” ID: 4.8mm OD, 4.3mm ID
- 1/4” NPT: 9.5mm OD, 6.4mm ID
- 1/4” BSPT: 9.5mm OD, 6.4mm ID

**PTF† POLYTUBE FITTING, FERRULELESS**

- CPC’s Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and more. PTF fittings are designed for seamless tubing, i.e., polypropylene, polyethylene, etc.
Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

### Liquid Flow Rate Information for Couplings

**Liquid Flow Rate Equation**

\[ Q = \sqrt{\frac{S}{C V}} \]

**Specifications**

**PRESSURE:** Vacuum to 120 psi, 8.3 bar

**TEMPERATURE:** 32°F to 160°F (0°C to 71°C)

**MATERIALS:**
- Main components and valves: Polypropylene
- Thumb latch: Stainless steel
- Valve spring: 316 stainless steel
- External spring and pin: Stainless steel
- O-rings: EPDM

**STERILIZATION:**
- Gamma: Up to 50-kGy irradiation

**COLOR:** Almond

**TUBING SIZES:**
- Microbore to 1/4” ID, Microbore to 6.4mm ID

**NOTES:**
- Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC products in their own application conditions. Use the graph to the right as a guide.

### PMC12 Series Connector

The 1/8" flow polypropylene PMC12 offers many of the same configuration options as the PMC. The polypropylene material adds greater chemical resistance and is gamma sterilizable. The PMC12 also mates to small diameter rigid tubing. Available with a 1/4-28 flat bottom port and 1/4-28 UNF threads, these couplings eliminate the need to thread and re-thread common compression nuts each time a tubing connection is made.

**Features**
- Polypropylene material
- EPDM o-ring
- CPC thumb latch
- Integral terminations

**Benefits**
- Chemically resistant and gamma-sterilizable
- Greater chemical resistance
- One-hand connection and disconnection
- Fewer leak points, shorter assemblies, faster installations

### PMC12 Series Connector Specifications

**PRESSURE:** Vacuum to 120 psi, 8.3 bar

**TEMPERATURE:** 32°F to 160°F (0°C to 71°C)

**MATERIALS:**
- Main components and valves: Polypropylene
- Thumb latch: Stainless steel
- Valve spring: 316 stainless steel
- External spring and pin: Stainless steel
- O-rings: EPDM

**STERILIZATION:**
- Gamma: Up to 50-kGy irradiation

**COLOR:** Almond

**TUBING SIZES:**
- Microbore to 1/4” ID, Microbore to 6.4mm ID

**NOTES:**
- Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC products in their own application conditions. Use the graph to the right as a guide.

**Features**
- Polypropylene material
- EPDM o-ring
- CPC thumb latch
- Integral terminations

**Benefits**
- Chemically resistant and gamma-sterilizable
- Greater chemical resistance
- One-hand connection and disconnection
- Fewer leak points, shorter assemblies, faster installations
PMC12 DIMENSIONS

Panel Dimensions

<table>
<thead>
<tr>
<th>PANEL OPENING</th>
<th>PANEL THICKNESS MAX. – MIN.</th>
<th>PANEL NUT KEY</th>
<th>PANEL NUT THREAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUPLING BODIES</td>
<td>see drawing</td>
<td>5/8</td>
<td>5/2</td>
</tr>
<tr>
<td>COUPLING INSERTS</td>
<td>see drawing</td>
<td>5/8</td>
<td>5/2</td>
</tr>
</tbody>
</table>

Coupling Bodies • POLYPROPYLENE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>IN-LINE PIPE THREAD</th>
<th>STRAIGHT THRU</th>
<th>SHUTOFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” MPT</td>
<td>PMC300312</td>
<td>PMC300312</td>
<td>.88</td>
</tr>
<tr>
<td>1/8” BSPT</td>
<td>PMC300128BSPT</td>
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</tr>
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<td>1/4” BSPT</td>
<td>PMC300412BSPT</td>
<td>PMC300412BSPT</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>IN-LINE FERRULELESS POLYTUBE FITTING, PTF†</th>
<th>PANEL MOUNT NOSE BAR</th>
<th>PANEL MOUNT NOSE BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” OD, 1/2” ID</td>
<td>6.4mm OD, 4.3mm ID</td>
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PMC12 1/4-28 Coupling Bodies • POLYPROPYLENE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT</th>
<th>PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” OD, 1/2” ID</td>
<td>6.4mm OD, 4.3mm ID</td>
<td>PMC370412</td>
</tr>
<tr>
<td>1/4” OD, 1/2” ID</td>
<td>6.4mm OD, 4.3mm ID</td>
<td>PMC370412</td>
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</table>

Coupling Inserts • POLYPROPYLENE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>IN-LINE PIPE THREAD</th>
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<th>SHUTOFF</th>
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<tbody>
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<table>
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<th>TERMINATION</th>
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</thead>
<tbody>
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<td>1/4” OD, 1/2” ID</td>
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Nuts

<table>
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<td>1.00”</td>
<td>2410100</td>
</tr>
<tr>
<td>1/8”</td>
<td>1.09/1.21”</td>
<td>2410101</td>
</tr>
<tr>
<td>3/32”</td>
<td>1.09/1.21”</td>
<td>2410102</td>
</tr>
<tr>
<td>1/16”</td>
<td>1.17/1.21”</td>
<td>2410103</td>
</tr>
<tr>
<td>1/8”</td>
<td>1.05/1.15”</td>
<td>2410104</td>
</tr>
<tr>
<td>3/32”</td>
<td>1.05/1.15”</td>
<td>2410105</td>
</tr>
</tbody>
</table>

Ferrules

<table>
<thead>
<tr>
<th>TUBING SIZE</th>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/16”</td>
<td>1.00”</td>
<td>2410100</td>
</tr>
<tr>
<td>1/8”</td>
<td>1.09/1.21”</td>
<td>2410101</td>
</tr>
<tr>
<td>3/32”</td>
<td>1.09/1.21”</td>
<td>2410102</td>
</tr>
</tbody>
</table>

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. CPC’s PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.
Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

**CV VALUES FOR 1/8” FLOW MC COUPLINGS**

- **Q** = Flow rate in gallons per minute
- **CV** = Average coefficient across various flow rates (see chart)
- **P** = Pressure drop across coupling (psi)
- **S** = Specific gravity of liquid

**Note:** Pressure drops are read across coupling (psi) and not across tubing.

**CPC OFFERS KEYED, COLOR-CODED COUPLING OPTIONS:**

CPC’s MC Series couplings are also available in keyed, color-coded versions. Specifically designed for applications requiring foolproof connections and non-interchangeable lines, these couplings are a durable and attractive solution for high-volume applications. Contact CPC for more information.

**DID YOU KNOW?**

CPC’s MC Series couplings are built tough and made to last in the most demanding applications. Ideal for use with higher temperatures or pressures, MC Series couplings feature one-hand operation for swift and easy connects and disconnects. These couplings offer the flexibility of multiple configurations and terminations and mate with both PMC acetal and PMC12 polypropylene couplings.

**MC SERIES CONNECTOR**

**Specifications**

**PRESSURE:**
Vacuum to 250 psi, 17.3 bar

**TEMPERATURE:**
-40°F to 180°F (-40°C to 82°C) (High temperature versions available with ratings to 400°F)

**MATERIALS:**
- Main components: Chrome-plated brass
- Thumb latch: Stainless steel
- Valves: Acetal
- Valve spring: 316 stainless steel
- External springs and pin: Stainless steel
- O-rings: Buna-N

**FINISH:** Chrome

**TUBING SIZES:**
1/8” to 1/4” ID, 3.2mm to 6.4mm ID

**PRESSURE:**
Vacuum to 250 psi, 17.3 bar

**TEMPERATURE:**
-40°F to 180°F (-40°C to 82°C) (High temperature versions available with ratings to 400°F)

**MATERIALS:**
- Main components: Chrome-plated brass
- Thumb latch: Stainless steel
- Valves: Acetal
- Valve spring: 316 stainless steel
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- O-rings: Buna-N

**FINISH:** Chrome

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1/8” to 1/4” ID, 3.2mm to 6.4mm ID

**Note:** Pressure drops are read across coupling (psi) and not across tubing.

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**Specifications**

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**TEMPERATURE:**
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- Valves: Acetal
- Valve spring: 316 stainless steel
- External springs and pin: Stainless steel
- O-rings: Buna-N

**FINISH:** Chrome

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1/8” to 1/4” ID, 3.2mm to 6.4mm ID

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- Valves: Acetal
- Valve spring: 316 stainless steel
- External springs and pin: Stainless steel
- O-rings: Buna-N

**FINISH:** Chrome

**TUBING SIZES:**
1/8” to 1/4” ID, 3.2mm to 6.4mm ID

**Note:** Pressure drops are read across coupling (psi) and not across tubing.

**CPC OFFERS KEYED, COLOR-CODED COUPLING OPTIONS:**

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**DID YOU KNOW?**

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MC DIMENSIONS

Panel Dimensions

<table>
<thead>
<tr>
<th>PANEL OPENING</th>
<th>PANEL THICKNESS</th>
<th>PANEL ID</th>
<th>PANEL OD</th>
<th>PANEL MOTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>coupling body</td>
<td>max. – min.</td>
<td>3/16&quot;</td>
<td>.17&quot;</td>
<td>see drawing</td>
</tr>
<tr>
<td>male thread</td>
<td>21 – 06</td>
<td>5/8</td>
<td>see drawing</td>
<td></td>
</tr>
<tr>
<td>coupling insert</td>
<td>30 – 06</td>
<td>5/8</td>
<td>see drawing</td>
<td></td>
</tr>
</tbody>
</table>

Coupling Bodies • CHROME-PLATED BRASS

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING/THREAD SIZE</th>
<th>METRIC EQ.</th>
<th>STRAIGHT THRU</th>
<th>SKEWTHRU</th>
<th>PANEL MOTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>in-line pipe thread</td>
<td>1/8&quot; NPT</td>
<td>MCD1002</td>
<td>MCD1002</td>
<td>35</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>1/8&quot; BSPT</td>
<td>MCD1002BSPT</td>
<td>MCD1002BSPT</td>
<td>35</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; NPT</td>
<td>MCD1602</td>
<td>MCD1602</td>
<td>36</td>
<td>1.07</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; BSPT</td>
<td>MCD1602BSPT</td>
<td>MCD1602BSPT</td>
<td>36</td>
<td>1.07</td>
</tr>
<tr>
<td></td>
<td>5/32&quot; OD, 1/8&quot; ID</td>
<td>MCD3004</td>
<td>MCD3004</td>
<td>35</td>
<td>1.00</td>
</tr>
<tr>
<td>panel mount ferruleless polytube fitting, pty</td>
<td>1/8&quot; ID</td>
<td>MCD1602</td>
<td>MCD1602</td>
<td>35</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>3/16&quot; ID</td>
<td>MCD1602</td>
<td>MCD1602</td>
<td>35</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; ID</td>
<td>MCD1602</td>
<td>MCD1602</td>
<td>35</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>6.4mm OD, 4.0mm ID</td>
<td>MCD1602</td>
<td>MCD1602</td>
<td>35</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>6.4mm OD, 4.0mm ID</td>
<td>MCD1602</td>
<td>MCD1602</td>
<td>35</td>
<td>1.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING/THREAD SIZE</th>
<th>METRIC EQ.</th>
<th>STRAIGHT THRU</th>
<th>SKEWTHRU</th>
<th>PANEL MOTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>in-line pipe thread</td>
<td>1/8&quot; NPT female</td>
<td>MCD2602</td>
<td>MCD2602</td>
<td>.72</td>
<td>2.15/1.50</td>
</tr>
<tr>
<td></td>
<td>1/8&quot; BSPT Female</td>
<td>MCD2602BSPT</td>
<td>MCD2602BSPT</td>
<td>.72</td>
<td>2.15/1.50</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; NPT Female</td>
<td>MCD2604</td>
<td>MCD2604</td>
<td>.72</td>
<td>2.15/1.50</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; BSPT Female</td>
<td>MCD2604BSPT</td>
<td>MCD2604BSPT</td>
<td>.72</td>
<td>2.15/1.50</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; OD, 1/8&quot; ID</td>
<td>MCD1604</td>
<td>MCD1604</td>
<td>.72</td>
<td>1.75/1.50</td>
</tr>
<tr>
<td>panel mount ferruleless polytube fitting, pty</td>
<td>1/8&quot; ID</td>
<td>MCD2602</td>
<td>MCD2602</td>
<td>.72</td>
<td>2.15/1.50</td>
</tr>
<tr>
<td></td>
<td>3/16&quot; ID</td>
<td>MCD2602</td>
<td>MCD2602</td>
<td>.72</td>
<td>2.15/1.50</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; ID</td>
<td>MCD2604</td>
<td>MCD2604</td>
<td>.72</td>
<td>2.15/1.50</td>
</tr>
<tr>
<td></td>
<td>6.4mm OD, 4.0mm ID</td>
<td>MCD2604</td>
<td>MCD2604</td>
<td>.72</td>
<td>1.75/1.50</td>
</tr>
<tr>
<td>elbow</td>
<td>1/8&quot; NPT</td>
<td>MCD2602</td>
<td>MCD2602</td>
<td>.62</td>
<td>1.90/1.50</td>
</tr>
<tr>
<td></td>
<td>1/8&quot; BSPT</td>
<td>MCD2602BSPT</td>
<td>MCD2602BSPT</td>
<td>.62</td>
<td>1.90/1.50</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; ID</td>
<td>MCD2604</td>
<td>MCD2604</td>
<td>.62</td>
<td>1.90/1.50</td>
</tr>
</tbody>
</table>

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. Note: CPC’s ferruleless PTFE polytube fittings do not require ferrule to achieve a secure connection and are transition easier to use and reuse. PTFE fittings are designed for metric tubing, i.e., polyethylene, nylon, polypropylene, etc. NOTE: Elbow configurations are available. Contact CPC for more information.

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NS212 SERIES CONNECTOR

NS212 Series couplings were built on the company’s proven platform of non-spill valves designed to provide fast, safe and leak-free fluid line connections. The NS212 is an easy, twist-to-connect coupling with an integrated locking mechanism and double-sided non-spill shutoff valves. It is also chemically resistant and ideal for a diverse range of applications including printing and ink management, analytical instrumentation, electronic cooling and chemical handling. NS212 couplings provide high-flow fluid transfer in a small footprint.

**Specifications**

**PRESSURE:** Vacuum to 45 psi, 3.1 bar

**TEMPERATURE:** 32°F to 120°F (0°C to 49°C)

**MATERIALS:**
- Main components: Glass-filled polypropylene
- Valve spring: 316 stainless steel
- Seal material: EPDM (FKM/FKM® FFKM optional)

**COLOR:** Gray with black accent standard

**TUBING SIZES:** 1/8” and 1/4” OD, 3.2mm and 6.4mm ID

**SPILLAGE:** <0.025 cc/disconnect

**INCLUSION:** 0.009 cc/connect

**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC’s products in their own application conditions.

**FEATURES**

- Efficient, non-spill design
- Multiple seal materials
- Twist-to-connect locking
- Compact design
- Ultra low air inclusion

**BENEFITS**

- Disconnect under pressure with no spills
- Broad chemical compatibility for diverse applications
- Easy, non-spill connections in tight spaces
- High flow in a small connector
- Minimizes contaminants, reduces the need to purge lines

These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

The NS212 does not mate with NS2. Contact CPC for additional compatibility information.

**ACCESSORIES**

- PANEL MOUNT GASKET REPLACEMENT: for sealing panel mount bodies in tight spaces

**DEVELOPMENT**

PATENTED

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Decoding Coupling Options

Often times, it can be an overwhelming task to decipher which coupling best fits your application needs. The chart below helps to decode popular CPC couplings.

<table>
<thead>
<tr>
<th>1/4” FLOW OPTIONS</th>
<th>PRIMARY MATERIAL</th>
<th>O-RING</th>
<th>APPLICATION BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLC</td>
<td>Acetal</td>
<td>Buna-N</td>
<td>General purpose plastic connector with metal latch</td>
</tr>
<tr>
<td>PLC12</td>
<td>Polypropylene</td>
<td>EPDM</td>
<td>Expanded chemical compatibility</td>
</tr>
<tr>
<td>LC</td>
<td>Chrome-Plated Brass</td>
<td>Buna-N</td>
<td>Higher operating temperature and pressure</td>
</tr>
<tr>
<td>APC</td>
<td>Acetal</td>
<td>Buna-N</td>
<td>Plastic thumb latch</td>
</tr>
<tr>
<td>BREAKAWAY®</td>
<td>Acetal</td>
<td>Buna-N</td>
<td>Breakaway latch</td>
</tr>
<tr>
<td>NS4</td>
<td>Glass-filled polypropylene</td>
<td>EPDM</td>
<td>Drybreak, non-spill connect and disconnect, even under pressure</td>
</tr>
</tbody>
</table>

For further information please contact CPC Customer Service at 1-800-444-2474 or 651-645-0091.

Specifications

PRESSURE:
Vacuum to 120 psi, 8.3 bar

TEMPERATURE:
-40°F to 180°F (-40°C to 82°C)

MATERIALS:
Main components and valves: Acetal
Thumb latch: Stainless steel
Valve spring: 316 stainless steel
External springs and pins: Stainless steel
O-rings: Buna-N

COLOR: Natural white, others available

TUBING SIZES:
1/4” to 3/8” ID, 6.4mm to 9.5mm ID

FEATURES

CPC thumb latch
One-hand connection and disconnection
Integral terminations
Fewer leak points, shorter assemblies, faster installations
Clicks when connected
Assurance of a reliable connection

Also available in NSF listed versions, please visit our website for part number information.

Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

C, VALUES FOR 1/4” FLOW PLC COUPLINGS

<table>
<thead>
<tr>
<th>Flow (gpm)</th>
<th>PLC 20004</th>
<th>PLC 22004</th>
<th>PLC 24004</th>
<th>PLC 26004</th>
<th>PLC 20006</th>
<th>PLC 22006</th>
<th>PLC 24006</th>
<th>PLC 26006</th>
<th>PLC 28004</th>
<th>PLC 28006</th>
<th>PLC 28008</th>
<th>PLC 30004</th>
<th>PLC 30006</th>
<th>PLC 30008</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.31 GPM</td>
<td>0.32</td>
<td>0.33</td>
<td>0.34</td>
<td>0.35</td>
<td>0.36</td>
<td>0.37</td>
<td>0.38</td>
<td>0.39</td>
<td>0.40</td>
<td>0.41</td>
<td>0.42</td>
<td>0.43</td>
<td>0.44</td>
<td>0.45</td>
</tr>
<tr>
<td>0.36 GPM</td>
<td>0.38</td>
<td>0.40</td>
<td>0.42</td>
<td>0.43</td>
<td>0.45</td>
<td>0.46</td>
<td>0.48</td>
<td>0.49</td>
<td>0.50</td>
<td>0.51</td>
<td>0.52</td>
<td>0.53</td>
<td>0.54</td>
<td>0.55</td>
</tr>
<tr>
<td>0.40 GPM</td>
<td>0.43</td>
<td>0.46</td>
<td>0.49</td>
<td>0.51</td>
<td>0.54</td>
<td>0.56</td>
<td>0.59</td>
<td>0.60</td>
<td>0.62</td>
<td>0.64</td>
<td>0.66</td>
<td>0.68</td>
<td>0.70</td>
<td>0.72</td>
</tr>
<tr>
<td>0.45 GPM</td>
<td>0.49</td>
<td>0.53</td>
<td>0.57</td>
<td>0.59</td>
<td>0.64</td>
<td>0.67</td>
<td>0.71</td>
<td>0.72</td>
<td>0.75</td>
<td>0.77</td>
<td>0.80</td>
<td>0.83</td>
<td>0.86</td>
<td>0.89</td>
</tr>
<tr>
<td>0.50 GPM</td>
<td>0.54</td>
<td>0.59</td>
<td>0.64</td>
<td>0.67</td>
<td>0.74</td>
<td>0.79</td>
<td>0.85</td>
<td>0.87</td>
<td>0.92</td>
<td>0.96</td>
<td>1.00</td>
<td>1.04</td>
<td>1.09</td>
<td>1.14</td>
</tr>
<tr>
<td>0.55 GPM</td>
<td>0.60</td>
<td>0.66</td>
<td>0.73</td>
<td>0.78</td>
<td>0.87</td>
<td>0.95</td>
<td>1.04</td>
<td>1.09</td>
<td>1.19</td>
<td>1.27</td>
<td>1.37</td>
<td>1.47</td>
<td>1.59</td>
<td>1.71</td>
</tr>
</tbody>
</table>

\[ Q = C \sqrt{\frac{AP}{S}} \]

- \( Q \): Flow rate in gallons per minute
- \( C \): Average coefficient across various flow rates
- \( A \): Flow area in square inches
- \( P \): Pressure drop across coupling (psi)
- \( S \): Specific gravity of liquid
### PLC Dimensions

#### Panel Dimensions
- **Panel Body**
  - Drawing: See drawing
  - Reference: 11/16 / 11/32 NF
- **Panel Insert**
  - Drawing: See drawing
  - Reference: 11/16 / 11/32 NF

#### Coupling Bodies • ACETAL

| Termination | In-Line Pipe Thread | Metric EQ. | Straight Thru | Shank
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC IN-LINE</td>
<td>1/4&quot; NPT</td>
<td>PLC20004</td>
<td>PLC20004</td>
<td>.90</td>
</tr>
<tr>
<td>PVC IN-LINE</td>
<td>3/8&quot; NPT</td>
<td>PLC20006</td>
<td>PLC20006</td>
<td>.90</td>
</tr>
<tr>
<td>PVC IN-LINE</td>
<td>1/4&quot; OD, 3/8&quot; ID</td>
<td>PLC20008</td>
<td>PLC20008</td>
<td>.90</td>
</tr>
<tr>
<td>PVC IN-LINE</td>
<td>3/8&quot; OD, 5/16&quot; ID</td>
<td>PLC20010</td>
<td>PLC20010</td>
<td>.90</td>
</tr>
</tbody>
</table>

#### Coupling Inserts • ACETAL

| Termination | In-Line Pipe Thread | Metric EQ. | Straight Thru | Shank
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC IN-LINE</td>
<td>1/4&quot; NPT</td>
<td>PLC20004</td>
<td>PLC20004</td>
<td>.90</td>
</tr>
<tr>
<td>PVC IN-LINE</td>
<td>3/8&quot; NPT</td>
<td>PLC20006</td>
<td>PLC20006</td>
<td>.90</td>
</tr>
<tr>
<td>PVC IN-LINE</td>
<td>1/4&quot; OD, 3/8&quot; ID</td>
<td>PLC20008</td>
<td>PLC20008</td>
<td>.90</td>
</tr>
<tr>
<td>PVC IN-LINE</td>
<td>3/8&quot; OD, 5/16&quot; ID</td>
<td>PLC20010</td>
<td>PLC20010</td>
<td>.90</td>
</tr>
</tbody>
</table>

---

All measurements are in inches (millimeters), unless otherwise noted. Tubing must meet noted outside and inside diameters. Coupling bodies are pictured with valves unless otherwise noted. CPC’s Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet noted inside and outside diameters. Coupling bodies are pictured with valves unless otherwise noted. CPC’s Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet noted inside and outside diameters. Coupling bodies are pictured with valves unless otherwise noted. CPC’s Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. NOTE: JG is a registered trademark of John Guest USA, Inc.

---

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Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

**CV VALUES FOR 1/4” FLOW PLC12 COUPLINGS**

<table>
<thead>
<tr>
<th>PVC Values</th>
<th>PLC12</th>
<th>PLC1000</th>
<th>PLC1200</th>
<th>PLC1600</th>
<th>PLC2000</th>
<th>PLC2200</th>
<th>PLC2400</th>
<th>PLC2600</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLC1200412</td>
<td>0.40</td>
<td>0.36</td>
<td>1.05</td>
<td>0.58</td>
<td>0.83</td>
<td>0.56</td>
<td>1.40</td>
<td>0.82</td>
</tr>
<tr>
<td>PLC1000412</td>
<td>0.36</td>
<td>0.32</td>
<td>0.75</td>
<td>0.48</td>
<td>0.66</td>
<td>0.41</td>
<td>0.82</td>
<td>0.50</td>
</tr>
<tr>
<td>PLC1200612</td>
<td>0.40</td>
<td>0.36</td>
<td>1.05</td>
<td>0.60</td>
<td>0.83</td>
<td>0.56</td>
<td>1.40</td>
<td>0.81</td>
</tr>
<tr>
<td>PLC1000612</td>
<td>0.37</td>
<td>0.31</td>
<td>0.70</td>
<td>0.43</td>
<td>0.80</td>
<td>0.58</td>
<td>1.40</td>
<td>0.76</td>
</tr>
<tr>
<td>PLC1200612</td>
<td>0.38</td>
<td>0.36</td>
<td>0.81</td>
<td>0.47</td>
<td>0.76</td>
<td>0.51</td>
<td>1.40</td>
<td>0.76</td>
</tr>
<tr>
<td>PLC1000612</td>
<td>0.37</td>
<td>0.31</td>
<td>0.81</td>
<td>0.47</td>
<td>0.76</td>
<td>0.51</td>
<td>1.40</td>
<td>0.76</td>
</tr>
<tr>
<td>PLC1200612</td>
<td>0.38</td>
<td>0.37</td>
<td>1.00</td>
<td>0.57</td>
<td>0.95</td>
<td>0.64</td>
<td>1.40</td>
<td>0.80</td>
</tr>
<tr>
<td>PLC1000612</td>
<td>0.37</td>
<td>0.31</td>
<td>0.95</td>
<td>0.57</td>
<td>0.95</td>
<td>0.64</td>
<td>1.40</td>
<td>0.80</td>
</tr>
</tbody>
</table>

**Specifications**

**PRESSURE:**
Vacuum to 120 psi, 8.3 bar

**TEMPERATURE:**
32°F to 160°F (0°C to 71°C)

**MATERIALS:**
Main components and valves:
Polypropylene
Thumb latch: Stainless steel
Valve spring: 316 stainless steel
External springs and pins: Stainless steel
O-rings: EPDM

**STERILIZATION:**
Gamma: Up to 50 kGy irradiation

**COLOR:**
Almond

**TUBING SIZES:**
1/4” to 3/8” ID, 6.4mm to 9.5mm ID

**NOTES:**
PLC12 Series Connectors are gamma sterilizable; see page 162 for more information on sterilization and disinfection.

The 1/4” flow polypropylene PLC12 offers many of the same configuration options as the PLC. The polypropylene material adds greater chemical resistance for more demanding applications. PLC12 couplings are also gamma sterilizable. PLC12 couplings are also gamma sterilizable and available with optional RFID (Radio Frequency Identification) capability (see page 96).

**FEATURES**
Polypropylene material
EPDM o-rings
CPC thumb latch
Integral terminations

**BENEFITS**
Chemically resistant and gamma sterilizable
Greater chemical resistance
One-hand connection and disconnection
Fewer leak points, shorter assemblies, faster installations

---

**PLC12 SERIES CONNECTOR**

**NOTES:**
Flow in gallons per minute
Cv = Average coefficient across various flow rates for each product family
Q = Specific gravity of fluid
P = Pressure drop across coupling (psi)

---

**SPECIFICATIONS**

- **PRESSURE:**
  - Vacuum to 120 psi, 8.3 bar
- **TEMPERATURE:**
  - 32°F to 160°F (0°C to 71°C)
- **MATERIALS:**
  - Main components and valves:
    - Polypropylene
    - Thumb latch: Stainless steel
    - Valve spring: 316 stainless steel
    - External springs and pins: Stainless steel
    - O-rings: EPDM
- **STERILIZATION:**
  - Gamma: Up to 50 kGy irradiation
- **COLOR:**
  - Almond
- **TUBING SIZES:**
  - 1/4” to 3/8” ID, 6.4mm to 9.5mm ID

---

**NOTES:**
PLC12 Couplings are gamma sterilizable; see page 162 for more information on sterilization and disinfection.

---

**FEATURES**
- Polypropylene material
- EPDM o-rings
- CPC thumb latch
- Integral terminations

**BENEFITS**
- Chemically resistant and gamma sterilizable
- Greater chemical resistance
- One-hand connection and disconnection
- Fewer leak points, shorter assemblies, faster installations

---

**PLC12 SERIES CONNECTOR**

**NOTES:**
- Flow in gallons per minute
- Cv = Average coefficient across various flow rates for each product family
- Q = Specific gravity of fluid
- P = Pressure drop across coupling (psi)

---

**SPECIFICATIONS**

- **PRESSURE:**
  - Vacuum to 120 psi, 8.3 bar
- **TEMPERATURE:**
  - 32°F to 160°F (0°C to 71°C)
- **MATERIALS:**
  - Main components and valves:
    - Polypropylene
    - Thumb latch: Stainless steel
    - Valve spring: 316 stainless steel
    - External springs and pins: Stainless steel
    - O-rings: EPDM
- **STERILIZATION:**
  - Gamma: Up to 50 kGy irradiation
- **COLOR:**
  - Almond
- **TUBING SIZES:**
  - 1/4” to 3/8” ID, 6.4mm to 9.5mm ID

---

**NOTES:**
PLC12 Couplings are gamma sterilizable; see page 162 for more information on sterilization and disinfection.

---

**FEATURES**
- Polypropylene material
- EPDM o-rings
- CPC thumb latch
- Integral terminations

**BENEFITS**
- Chemically resistant and gamma sterilizable
- Greater chemical resistance
- One-hand connection and disconnection
- Fewer leak points, shorter assemblies, faster installations

---

**PLC12 SERIES CONNECTOR**

**NOTES:**
- Flow in gallons per minute
- Cv = Average coefficient across various flow rates for each product family
- Q = Specific gravity of fluid
- P = Pressure drop across coupling (psi)
PLC12 DIMENSIONS

Panel Dimensions

<table>
<thead>
<tr>
<th>COUPLING BODIES</th>
<th>PANEL DIMENSIONS</th>
<th>PANEL TOLERANCES</th>
<th>PANEL NOT MEN</th>
<th>PANEL NOT MEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>see drawing</td>
<td>30 – 62</td>
<td>see drawing</td>
<td>11/16 – 13/16</td>
<td>11/16 – 13/16</td>
</tr>
</tbody>
</table>

**Coupling Bodies • POLYPROPYLENE**

<table>
<thead>
<tr>
<th>TERMINATION</th>
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<th>PANEL HEIGHT</th>
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<td>PLC0004412</td>
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**PLC12 Coupling Readers • POLYPROPYLENE**

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**Coupling Inserts • POLYPROPYLENE**

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<th>PANEL WIDTH</th>
<th>PANEL HEIGHT</th>
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**PANEL DIMENSIONS**

- **D** = Height/Diameter
- **A** = Total Length
- **E** = Elbow/Radius Length

**PLC12 Coupling Readers • POLYPROPYLENE**

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are picked with values unless otherwise noted.

PTFE fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. NOTE: JG is a registered trademark of John Guest USA, Inc.
CPC’s LC Series chrome-plated brass couplings are built tough and made to last in the most demanding applications. Ideal for use with higher temperature or pressure, the LC Series features a one-hand operation for swift and easy connects and disconnects. These couplings offer the flexibility of multiple configurations and terminations to mate with both the PLC acetal and PLC12 polypropylene couplings.

**FEATURES**
- Brass material
- Durable construction withstands higher pressure and temperature
- Chrome plating
- Attractive appearance
- High temperature capability
- Versions rated to 400°F (204°C)
- CPC thumb latch
- One-hand connection and disconnection
- Compatible LC mates with PLC Series couplings

**BENEFITS**
- High temperature versions available with ratings to 400°F. Call customer service for more information.
- Note: High temperature versions available with ratings to 400°F. Call customer service for more information.
- Also available in NSF listed versions for food-based applications, please visit our website for part number information.

**TUBING SIZES:**
- 1/4" to 3/8" ID, 6.4mm to 9.5mm ID

**MATERIALS:**
- Main components: Chrome-plated brass
- Thumb latch: Stainless steel
- Valves: Acetal
- Valve springs: 316 stainless steel
- O-rings: Buna-N

**FINISH:**
- Chrome

**FEATURES**
- Brass material
- Durable construction withstands higher pressure and temperature
- Chrome plating
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- O-rings: Buna-N

**FINISH:**
- Chrome

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**O-RING SELECTION IS A KEY DECISION** in determining which connector will perform best in your specific application. Understanding the material characteristics and how they can be affected by both the media being transferred and the environment in which the connector is being used is important.

**BUNA-N** is the most common o-ring seal due to its solvent, oil and water resistance. Temperature range is -40°F to 250°F.

**FKM** is best suited for applications where chemical and strong acid resistance and/or high temperatures are a requirement. The temperature range is -15°F to 400°F.

**EPDM** has excellent resistance to polar solvents. This o-ring is not compatible with petroleum. The temperature range is -70°F to 300°F.

**SILICONE** seals have good temperature resistance. The temperature range is -70°F to 400°F and with special compounds can reach 175°F to 450°F. Silicone can also be supplied with Class VI requirements for medical/bioprocessing applications.

For further information about which o-ring is best suited for your application, please contact CPC Customer Service at 1-800-444-2474 or 651-645-0090.

**NOTES:**
- Pressure drop across coupling (psi)
- Specific gravity of liquid

**Liquid Flow Rate Information for Couplings**

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

**Cv VALUES FOR 1/4" FLOW LC COUPLINGS**

<table>
<thead>
<tr>
<th>Model</th>
<th>LC20004</th>
<th>LC20005</th>
<th>LC20006</th>
<th>LC22004</th>
<th>LC22005</th>
<th>LC22006</th>
<th>LC24004</th>
<th>LC24005</th>
<th>LC24006</th>
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<tbody>
<tr>
<td>Cv</td>
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<td>0.36</td>
<td>0.36</td>
<td>0.40</td>
<td>0.36</td>
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</table>

Note: Flow rate in gallons per minute

Q = \( C_v \times \sqrt{\frac{P}{S}} \)

Where:
- Q = Flow rate in gallons per minute
- Cv = Average coefficient across various flow rate charts
- P = Pressure drop across coupling (psi)
- S = Specific gravity of liquid

---

**DID YOU KNOW?**

- Higher flow rates result in a greater temperature drop across the coupling. These graphs are intended to give you a general idea of the performance capabilities of each product line. For the shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configuration selected, you can reasonably expect values to fall within the shaded area.
### LC DIMENSIONS

#### Product Dimensions

<table>
<thead>
<tr>
<th>PANEL OPENING</th>
<th>PANEL INCHES MAX. - MIN.</th>
<th>PANEL THICKNESS MAX- MIN.</th>
<th>PANEL THICKNESS MAX - MIN.</th>
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<tr>
<td>50 – 100</td>
<td>11/16 – 24UNEF</td>
<td>.50 – .05</td>
<td>13/16 – 300</td>
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#### Coupling Bodies • CHROME-PLATED BRASS

**Couplings**

- Coupling Bodies
- Coupling Inserts

**Coupling Inserts**

- Polytube Fitting, Ferruleless
- In-Line
- Panel Mount

**Termination**

- In-Line
- Off-Line
- Hose Barb

**Tubing/Thread Size / Metric EQ.**

- 3/8” ID
- 5/16” ID
- 1/4” ID

- 3/8” OD, .25” ID
- 1/4” OD, .17” ID

- 3/8” BSPT
- 1/4” BSPT

**Easier to use and reuse.** PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

**All measurements are in inches (millimeters) unless otherwise noted.** Tubing must meet stated inside and outside diameters.

**All measurements are in inches (millimeters) unless otherwise noted.** Tubing must meet stated inside and outside diameters.

**NOTICE: CPC’s Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse.** PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

---

**Smart fluid handling to take you forward, faster.**

cpcworldwide.com • 800-444-2474

Smart fluid handling to take you forward, faster.
**Specifications**

**PRESSURE:** Vacation to 120 psi, 8.3 bar

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

**MATERIALS:**
- Main components and valves: Acetal
- Thumb latch: Acetal
- Valve springs: 316 stainless steel
- External springs and pins: Stainless steel
- O-rings: Buna-N

**COLOR:** Natural white with light gray latch

**TUBING SIZES:**
- 1/4" to 3/8" ID, 6.4mm to 9.5mm ID

**FEATURES**

| Plastic thumb latch | No exposed metal parts |
| Shrouded thumb latch | Protects against accidental disconnects |
| Integral terminations | Fewer leak points, shorter assemblies, faster installations |
| Compatibility | Maters with most EFC couplings |

**BENEFITS**

- Plastic thumb latch
- No exposed metal parts
- Shrouded thumb latch
- Protects against accidental disconnects
- Integral terminations
- Fewer leak points, shorter assemblies, faster installations
- Compatibility
- Mates with most EFC couplings

**Features**

- Plastic thumb latch
- No exposed metal parts
- Shrouded thumb latch
- Protects against accidental disconnects
- Integral terminations
- Fewer leak points, shorter assemblies, faster installations
- Compatibility
- Mates with most EFC couplings

**DID YOU KNOW?**

The shelf life of a connector is dependent upon the connector materials and the storage conditions. CPC manufactures quick disconnect couplings and connections made from a variety of metal, plastic, and elastomeric raw materials. In general, it is best to store any CPC product in an environment shielded from light at a temperature between 50°F and 90°F. The shelf life of CPC couplings and connections is estimated to be 3 years minimum if the storage conditions comply with those shown above.

**Notes:**

- For product containing lubricated o-rings, the lubricant will dry out over time. Prior to use, it may be advisable to re-lubricate external o-rings. For product containing silicone o-rings, if lube is allowable, use of a synthetic oil is recommended.

**Liquid Flow Rate Information for Couplings**

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

**Cv VALUES FOR APC COUPLINGS**

- **Q** = Flow rate in gallons per minute
- **CV** = Average coefficient across various flow rates (see chart)
- **P** = Pressure drop across coupling (psi)
- **S** = Specific gravity of liquid

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</table>

These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configuration selected, you can reasonably expect values to fall within the shaded area.
APC DIMENSIONS

Panel Dimensions

Coupling Bodies • ACETAL

Coupling Inserts • ACETAL

Accessories

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

NOTE: CPC’s Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.
CPC’s BreakAway® Series couplings provide safe and easy fluid transfer with protection from costly product loss and equipment damage. These high quality, leak-free connectors are designed to disconnect when pull force is applied without depressing a latching mechanism, allowing users to make a clean, fast and easy break at critical moments.

**Features**
- Reliable break-away design
- Automatic dual shutoff valves
- Streamlined, flush finish
- Easy-to-use for maximum productivity

**Benefits**
- Rapid, automatic disconnection
- Safe and clean fluid handling
- Easy to use for maximum productivity

---

### Specifications

**Pressure:**
0 to 20 psi, 1.4 bar

**Temperature:**
0°F to 150°F (-18°C to 66°C)

**Materials:**
- Main components and valves: Acetal
- Valve springs: 316 stainless steel
- O-rings: Buna-N
- Retention ring: PPS

**Color:**
- White or black

### Tubing Sizes:

- 1/4” and 3/8” ID, 6.4mm and 9.5mm ID

**Warning:**
Pressure, temperature, materials, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC’s products in their own application conditions.

### Breakaway Dimensions

#### Coupling Bodies
- **White Acetal**
  - TUBING SIZE
    - PART NO.
    - SIZE
    - PRESSURE: STRAIGHT THRU SHUTOFF
    - 1/4” ID .58/0.69 1.58/2.10 0.82 2.29
    - 3/8” ID .69 2.10 0.82 2.29

- **Black Acetal**
  - TUBING SIZE
    - PART NO.
    - SIZE
    - PRESSURE: STRAIGHT THRU SHUTOFF
    - 1/4” ID .58/0.69 1.58/2.10 0.82 2.29
    - 3/8” ID .69 2.10 0.82 2.29

#### Coupling Inserts
- **White Acetal**
  - TUBING SIZE
    - PART NO.
    - SIZE
    - PRESSURE: STRAIGHT THRU SHUTOFF
    - 1/4” ID .58/0.69 1.58/2.10 0.89 2.18

- **Black Acetal**
  - TUBING SIZE
    - PART NO.
    - SIZE
    - PRESSURE: STRAIGHT THRU SHUTOFF
    - 1/4” ID .58/0.69 1.58/2.10 0.89 2.18

---

### Panels Dimensions

<table>
<thead>
<tr>
<th>PANEL OPENING</th>
<th>PANEL THICKNESS MAX.–MIN.</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 – 32</td>
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</tbody>
</table>

---

### General Specifications

- **Pressure:** 0 to 20 psi, 1.4 bar
- **Temperature:** 0°F to 150°F (-18°C to 66°C)
- **Materials:**
  - Main components and valves: Acetal
  - Valve springs: 316 stainless steel
  - O-rings: Buna-N
  - Retention ring: PPS
- **Color:** White or black
- **Tubing Sizes:** 1/4” and 3/8” ID, 6.4mm and 9.5mm ID

---

### Panel Opening Specifications

- **Height/Diameter:**
  - Ø .688” + .010

- **Total Length:**
  - Ø .688” - .000

- **Panel Opening:**
  - .50 – .02

- **Panel Thickness:**
  - Max. – Min.

---

### Features
- Reliable break-away design
- Rapid, automatic disconnection
- Automatic dual shutoff valves
- Safe and clean fluid handling
- Streamlined, flush finish
- Easy to use for maximum productivity

---

### Benefits
- Rapid, automatic disconnection
- Safe and clean fluid handling
- Easy to use for maximum productivity

---

### Notes

- All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.
- MBBLK = molded black material.

---

### Graphs

- These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded areas of the graphs represent the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configuration selected, you can reasonably expect values to fall within the shaded area.
- Force to disconnect is approximately 12 pounds pull force at 0 psi line pressure and 8 pounds pull force at 20 psi. In some applications and with certain types of tubing, a hose clamp may be required.
EFC12 SERIES CONNECTOR

The 9/32” flow EFC12 Series couplings feature a high efficiency valve design that provides a greater flow capability than any other coupling of its size. Chemically resistant polypropylene material makes it ideal for harsh environments. The EFC12 Series adds a bulkhead panel mount option for tight seals against tank walls and drums.

FEATURES
High efficiency valve
Plastic thumb latch
Polypropylene material
Compatible

BENEFITS
More flow size than PLC Series in a compact size
Fewer moving parts
Chemically resistant and gamma sterilizable
Mates with most APC couplings

Specifications

PRESSURE:
Vacuum to 105 psi, 7.2 bar

TEMPERATURE:
32°F to 160°F (0°C to 71°C)

MATERIALS:
Main components and valves: Polypropylene
Thermoweld moving parts
Compact size

FEATURES
The 9/32” flow EFC12 Series couplings provide high efficiency valve design that offers a greater flow capability than any other coupling of its size. Chemical-resistant polypropylene material makes it ideal for harsh environments. The EFC12 Series also adds a bulkhead panel mount option for tight seals against tank walls and drums.

Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

CV VALUES FOR EFC12 COUPLINGS

<table>
<thead>
<tr>
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<td>0.72</td>
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</tr>
</tbody>
</table>

CV = \frac{Q}{A} \sqrt{\frac{P}{S}}

where:
- Q = Flow rate in gallons per minute
- A = Average coefficient across various fluids
- P = Pressure drop across coupling (psi)
- S = Specific gravity of liquid

Smart fluid handling to take you forward, faster.
**NS4 SERIES CONNECTOR**

**Specifications**

**PRESSURE:**
Vacuum to 1200 psi, 8.3 bar

**TEMPERATURE:**
32°F to 160°F (0°C to 71°C)

**MATERIALS:**

**COLOR:**
Polypropylene: Gray with dark gray overmold standard; gray with red or blue overmold available. ABS: White with teal overmold. TPE: Gray with dark gray overmold, TPE: Gray with teal overmold.

**TUBING SIZES:**
1/8” to 3/8” ID, 3.2mm to 9.5mm ID

**LUBRICANTS:**
Krytox® PFPE (Inert)

**FEATURES**

- Non-spill design
- Instant visual differentiation of media lines
- Disconnect under pressure with no spills
- Gamma sterilizable
- Chemicals and media resistant
- Low pressure and temperature drop
- EPDM or Viton® O-rings standard
- 316 stainless steel valve spring
- Thumb latch: Painted glass-filled polypropylene, ABS
- Blow-molded polypropylene thumb latch
- Glass-filled polypropylene with TPV™ overmold
- Polypropylene with TPE™ soft-touch overmold

**BENEFITS**

- Disconnect under pressure with no spills
- Instant visual differentiation of media lines
- Non-spill design
- Gamma sterilizable

**Notes:**
- *NOTE: Standard products gray color option require a minimum quantity. Please contact CPC for details.
- The overmold material TPE (thermoplastic elastomer) is used for the NS4 polypropylene couplings. TPE is an alloy of polypropylene thermoplastics and fully vulcanized EPDM rubber. TPE is specifically molded under severe control in a process called injection molding. The overmold material TPE (thermoplastic elastomer) is used with the NS4 ABS couplings. TPE is a blend of additives and copolymers in a special formulation that form a seamless, durable bond to the ABS substrate while offering the traditional properties of soft-touch overmold.

**Smart fluid handling to take you forward, faster.**
LQ4 SERIES CONNECTOR

Specifications

PRESSURE: Vacuum to 120 psi, 8.3 bar

TEMPERATURE: 0°F to 240°F (-17°C to 115°C)

MAXIMUM FLOW AT DISCONNECT: 3.0 gal/min, 11.3L/min

FEATURES

LQ4 Series quick disconnect couplings provide ultra-reliable, dripless connections and disconnections that protect valuable electronics. Designed specifically for liquid cooling applications, LQ4 uses patent-pending valve technology that eliminates drips and is able to withstand long-term use.

- Lower, ergonomic profile
- Enhanced latch design
- Friction-free valve
- Redundant sealing when connected
- Non-spill design

BENEFITS

- Extra protection from leaks
- Instant visual difference in cooling lines
- Disconnect under pressure with no spills
- Easy to see orientation on manifolds and tubing
- Meets size requirements for space-constrained electronics

LUBRICANTS: Krytox® PFPE

SPILLAGE:

0.025 cc per disconnect rated at 0 psi
0.055 cc per disconnect rated at 120 psi

INCLUSION:

0.025 cc per connect

WARNING: Pressure, temperature, chemical, and operating conditions can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC’s products in their own application conditions.

In addition to CPC’s standard metric and imperial sizes, the LQ4 Series is available in custom metric and imperial sizes.

SEALS:

- Stainless steel
- EPDM
- Polysulfone

SEALING:

- Chrome-plated brass
- Chrome with Cool Blue or Warm Red

COLOR:

- Stainless steel
- External spring:
  - Stainless steel

SPECIFICATIONS:

- Main housing components:
  - Chrome-plated brass
  - Valve spring (wetted):
    - Stainless steel
  - Valve spring (dry):
    - Stainless steel

MATERIALS:

- Polysulfone
- Chrome-plated brass
- EPDM

- Chromed brass
- Kynar®
- Polyamide 6.6

- PTFE
- Stainless steel
- Polysulfone
- Chlorinated polyethylene

- 3.0 gal/min, 11.3L/min
- 0°F to 240°F (-17°C to 115°C)
- Vacuum to 120 psi, 8.3 bar

Pressure, temperature, chemicals, and operating conditions can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC’s products in their own application conditions.

For flow of a particular coupling combination, consult CPC for flow of a particular coupling combination. The performance capabilities of each product line. Contact CPC for flow of a particular coupling combination.

These graphs are intended to give you a general idea of the performance capabilities of each product line. Contact CPC for flow of a particular coupling combination.

All measurements are in inches (mm) unless otherwise noted. Tubing must meet stated inside and outside diameters.
These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

### NS6 SERIES CONNECTOR

**Specifications**

- **PRESSURE:** Vacuum to 120 psi, 8.3 bar
- **TEMPERATURE:** 32°F to 160°F (0°C to 71°C)
- **MATERIALS:**
  - Main components and valves: Glass-filled polypropylene with TPV* soft touch overmold
  - Thumb latch: Glass-filled polypropylene
  - Valve spring (wetted): 316 stainless steel
  - External spring: 316 stainless steel
  - Valve spring (wetted): Thumb latch: Glass-filled polypropylene with TPV* soft touch overmold
  - Material is typically resistant to water, acids and bases.
  - O-rings: EPDM

- **COLOR:** Gray with dark gray overmold standard; gray with red or blue overmold available†

- **FEATURES**
  - Non-spill design
  - Durable and compatible with many chemicals
  - Comfortable in the hand and very attractive.

- **BENEFITS**
  - Disconnect under pressure with no spills
  - Instant visual differentiation of media lines
  - One-hand connection and disconnection

- **INCLUSION:**
  - The overmold material is a TPV (thermoplastic vulcanizate).

**couplings feature non-spill valves at a great price.**

- **PRESSURE (bar):**
  - Disconnect @ 120 psi
  - ~ 0.03 cc per disconnect @ 0 psi,
  - ~ 0.30 cc per connect

**LUBRICANTS:** Krytox® PFPE (inert)

- **SPILLAGE:**
  - ~ 0.42 cc per connect
  - ~ 0.30 cc per disconnect @ 120 psi

**Color Coding**

- **Non-spill design**
- **Non-spill valve**
- **Panel Mount Gasket Replacement**

**NS6 SERIES CONNECTOR**

**Coupling Bodies • POLYPROPYLENE**

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBE/THREAD SIZE</th>
<th>METRIC C.O.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IN-LINE</strong></td>
<td><strong>1/2&quot; MPT</strong></td>
<td><strong>1.31</strong></td>
</tr>
<tr>
<td><strong>PIPE THREAD</strong></td>
<td><strong>1/2&quot; NPT</strong></td>
<td><strong>1.31</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PANEL MOUNT</th>
<th>TUBE/THREAD SIZE</th>
<th>METRIC C.O.</th>
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</thead>
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<td><strong>1/2&quot; NPT</strong></td>
<td><strong>1.31</strong></td>
</tr>
<tr>
<td><strong>PIPE THREAD</strong></td>
<td><strong>1/2&quot; NPT</strong></td>
<td><strong>1.31</strong></td>
</tr>
</tbody>
</table>

**Accessories**

- **O-rings:** EPDM
- **Valve spring (wetted):** Thumb latch: Glass-filled polypropylene with TPV* soft touch overmold

**SPELAGE:**

- ~ 0.42 cc per connect
- ~ 0.30 cc per disconnect @ 120 psi

**Patent**

**Patent**

**Smart fluid handling to take you forward, faster.**

**Panel Dimensions**

**couplings with valves unless otherwise noted.**

**All measurements are in inches (millimeters) unless otherwise noted.**

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**64**

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**65**

**Smart fluid handling to take you forward, faster.**
LQ6 SERIES CONNECTOR

Specifications

FEATURES

- Non-spill design
- Redundant sealing when connected
- Color-coding
- No seal friction in disconnect even after
  long periods in connected state
- Enhanced latch design
- Lower ergonomic profile

BENEFITS

- Disconnect under pressure with no spills
- Extra protection from leaks
- Instant visual difference in cooling lines
- Ultra-reliable protection from drips at
  connected state
- Easy to see orientation on manifolds
  and tubing
- Meet size requirements for space-
  constrained electronics

PRESSURE:
Vacuum to 120 psi, 8.3 bar

TEMPERATURE:
0°F to 240°F (-17°C to 115°C)

MAXIMUM FLOW AT DISCONNECT:
4.0 gal/min, 15.1 L/min

MATERIALS:
Main housing components:
- Chrome-plated brass

Valves and thumb latch:
- Polysulfone

External spring:
- Stainless steel

Seals:
- EPDM

COLOR:
- Chrome with Cool Blue or Warm Red

TUBING SIZES:
- 3/8” to 1/2” ID, 9.5mm to 12.7mm ID

LUBRICANTS:
- Krytox® PFPE

SPILLAGE:
- 0.03 cc per disconnect rated at 120 psi
- 0.03 cc per disconnect rated at 0 psi

INCLUSION:
- 0.02 cc per connect

LQ6 Series couplings
Closed-system design provides ultra-reliable,
dripless connections and disconnections. The first of their kind, the couplings uses patent-pending valve technology specifically designed for liquid cooling applications.

LQ6 DIMENSIONS

Coupling Bodies • CHROME-PLATED BRASS

TERMINATION

- V- LINE
- HOSE BARB
- PIPE THREAD

TUBING/THREAD SIZE

- 3/8" ID x 1/2" OD, 9.5mm x 12.7mm OD

METRIC COL.

- 9.5mm ID
- 12.7mm ID

SHUTOFF

- 1.29
- 2.73

LQ6 SERIES CONNECTOR

These graphs are intended to give you a general idea of the performance capability of each product line. Contact CPC for flow of a particular coupling configuration.

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.
**Specifications**

**PRESSURE:** Vacuum to 120 psi, 8.3 bar

**TEMPERATURE:** 32°F to 120°F (0°C to 49°C)

**MATERIALS:**
- Main components: Glass-filled polypropylene
- Thumb latch: Glass-filled polypropylene
- O-rings: EPDM
- Springs: (non-wetted): 316 stainless steel
- Compression nuts: White polypropylene

**COLOR:**
- Gray with dark gray accent standard
- Red or blue thumb latch and insert tip available.

**TUBING SIZES:**
- 3/8" to 3/4" ID, 9.5mm to 19.0mm ID

**LUBRICANTS:** Krytox® PFPE (Inert)

**SPILLAGE:** 0.42 cc per connect

**INCLUSION:** 0.03 cc connect

**Panel Dimensions**

<table>
<thead>
<tr>
<th>PANEL MOUNT</th>
<th>PANEL OPENING</th>
<th>PANEL THICKNESS MAX.–MIN.</th>
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<tr>
<td>PANEL MOUNT KIT:</td>
<td>see drawing</td>
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**Coupling Bodies • POLYPROPYLENE**

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<th>SHUTOFF</th>
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<td>IN-LINE</td>
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**Coupling Inserts • POLYPROPYLENE**

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**Accessories**

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<tbody>
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</table>

**NSH Series Connectors**

Couplings are general purpose versions of our pressure-balanced, non-spill, ChemQuik® CQG06 couplings. Molded polypropylene, EPDM seals and a 100% springless and metal-free flow path provide broad chemical resistance and exceptionally high flow capacity, allowing instant disconnects (and reconnects), even under pressure. Their non-spill design virtually eliminates spills, minimizes downtime and enhances operator safety in a very low cost package.

**BENEFITS**

- **Non-spill design:** Ultimate protection from chemicals and fumes
- **Pressure-balanced design:** Fail-safe disconnect, even under pressure, easy to reconnect at high pressure
- **Springless flow path design:** Eliminates source of metallic contaminants
- **Optional color coding:** Helps prevent accidental misconnects

These graphs are intended to give you a general idea of the performance capabilities of each product family, i.e., upper and lower values are shown.

The shaded area of each graph represents the operating range of the product family. Use the graphs below as a guide.

WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC products in their own application conditions. Use the graphs below as a guide.

NSH Series Connectors:

- Helps prevent accidental misconnects
- Eliminates source of metallic contaminants
- Easy to reconnect at high pressure and fumes
- Ultimate protection from chemicals

**FEATURES**

- Optional color coding

**NSH SERIES CONNECTOR**

**Specifications**

**PRESSURE:** Vacuum to 120 psi, 8.3 bar

**TEMPERATURE:** 32°F to 120°F (0°C to 49°C)

**MATERIALS:**
- Main components: Glass-filled polypropylene
- Thumb latch: Glass-filled polypropylene
- O-rings: EPDM
- Springs: (non-wetted): 316 stainless steel
- Compression nuts: White polypropylene

**COLOR:**
- Gray with dark gray accent standard
- Red or blue thumb latch and insert tip available.

**TUBING SIZES:**
- 3/8" to 3/4" ID, 9.5mm to 19.0mm ID

**LUBRICANTS:** Krytox® PFPE (Inert)

**SPILLAGE:** 0.42 cc per connect

**INCLUSION:** 0.03 cc connect

**Features**

- Non-spill design
- Ultimate protection from chemicals and fumes
- Pressure-balanced design
- Fail-safe disconnect, even under pressure, easy to reconnect at high pressure
- Springless flow path design
- Eliminates source of metallic contaminants
- Optional color coding
- Helps prevent accidental misconnects

**Materials**

- Main components: Glass-filled polypropylene
- Thumb latch: Glass-filled polypropylene
- O-rings: EPDM
- Springs (non-wetted): 316 stainless steel
- Compression nuts: White polypropylene

**Color**

- Gray with dark gray accent standard
- Red or blue thumb latch and insert tip available.

**Tubing Sizes**

- 3/8" to 3/4" ID, 9.5mm to 19.0mm ID

**Lubricants**

- Krytox® PFPE (Inert)

**Spillage**

- 0.42 cc per connect

**Inclusion**

- 0.03 cc connect

**Panel Dimensions**

<table>
<thead>
<tr>
<th>PANEL MOUNT</th>
<th>PANEL OPENING</th>
<th>PANEL THICKNESS MAX.–MIN.</th>
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<tr>
<td>PANEL MOUNT KIT:</td>
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<td>30 – 12</td>
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**Coupling Bodies • Polypropylene**

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING/THROAT SIZE</th>
<th>METRIC CO</th>
<th>SHUTOFF</th>
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</thead>
<tbody>
<tr>
<td>IN-LINE</td>
<td>3/4&quot; ID</td>
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<td>3.90</td>
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<tr>
<td>PIPE THREAD</td>
<td>3/4&quot; FEMALE NPT</td>
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<td>PIPE THREAD</td>
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<td>IN-LINE</td>
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<td>PIPE THREAD</td>
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</table>

**Coupling Inserts • Polypropylene**

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<tbody>
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<td>3/4&quot; ID</td>
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<tr>
<td>PIPE THREAD</td>
<td>3/8&quot; FEMALE NPT</td>
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</table>

**Accessories**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANEL MOUNT KIT with panel seal</td>
<td>WSHK00012</td>
</tr>
</tbody>
</table>

**Smart fluid handling to take you forward, faster.**

---

Smart fluid handling to take you forward, faster.
Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

CV VALUES FOR HFC12 COUPLINGS

\[ Q = C \times \sqrt{\frac{P}{S}} \]

where:
- \( Q \) = Flow rate in gallons per minute
- \( C \) = Average coefficient across various flow rates (see chart)
- \( P \) = Pressure drop across coupling (psi)
- \( S \) = Specific gravity of liquid

**Specifications**

**PRESSURE:**
Vacuum to 60 psi, 4.2 bar

**TEMPERATURE:**
32°F to 160°F (0°C to 71°C)

**MATERIALS:**
- Main components and valves: Polypropylene
- Thumb latch: Polypropylene
- Valve spring (wetted): 316 stainless steel
- External springs: 316 stainless steel
- O-rings: EPDM
- Panel mount gasket: EPDM
- Compression nut, gripper, ferrule: Polypropylene

**COLOR:** Gray with dark gray latch

**TUBING SIZES:**
3/8” to 1/2” OD. 9.5mm to 19.0mm ID

**FEATURES**

- High efficiency valve
- More flow in a compact size
- Ergonomic design
- Easy to grip, simple to operate
- Polypropylene material
- Chemically resistant and gamma sterilizable

**BENEFITS**

- Compact and lightweight
- Replaces bulky and heavy brass ball-and-sleeve couplings
- Wide range of applications
- Easy grip and simple operation
- Efficient valve design leads to high flow and low spillage

**NOTES:**

These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configuration selected, you can reasonably expect values to fall within the shaded area.

Note: Optional o-ring and spring materials are available, please contact CPC for details.

**NOTES:**

\[ Q = C \times \sqrt{\frac{P}{S}} \]

- \( Q \) = Flow rate in gallons per minute
- \( C \) = Average coefficient across various flow rates (see chart)
- \( P \) = Pressure drop across coupling (psi)
- \( S \) = Specific gravity of liquid

**HFC12 SERIES CONNECTOR**

HFC12 Series couplings have flow comparable to many 1/2” flow couplings in a 3/8” body size. Compact and lightweight, HFC couplings replace bulky and heavy brass ball-and-sleeve couplings in a wide range of applications. An ergonomic design and a large, shrouded thumb latch pad produce a coupling that is easy to grip and simple to operate. An efficient valve design leads to high flow and low spillage.

**Specifications**

**PRESSURE:**
Vacuum to 60 psi, 4.2 bar

**TEMPERATURE:**
32°F to 160°F (0°C to 71°C)

**MATERIALS:**
- Main components and valves: Polypropylene
- Thumb latch: Polypropylene
- Valve spring (wetted): 316 stainless steel
- External springs: 316 stainless steel
- O-rings: EPDM
- Panel mount gasket: EPDM
- Compression nut, gripper, ferrule: Polypropylene

**COLOR:** Gray with dark gray latch

**TUBING SIZES:**
3/8” to 1/2” OD. 9.5mm to 19.0mm ID

**FEATURES**

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**Coupling Bodies • POLYPROPYLENE**

**Coupling Inserts • POLYPROPYLENE**

**Panel Dimensions**

<table>
<thead>
<tr>
<th>TUNING/HOSE SIZE</th>
<th>METRIC EQ.</th>
<th>STRAIGHT THRU</th>
<th>SHUTOFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; MPT</td>
<td>HFC3612</td>
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<td>1.82 3.64</td>
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<tr>
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<td>HFC2012</td>
<td>1.44 2.88</td>
<td>1.82 3.64</td>
</tr>
<tr>
<td>3/4&quot; MPT</td>
<td>HFC2012</td>
<td>1.44 2.88</td>
<td>1.82 3.64</td>
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</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>PART NO.</th>
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</thead>
<tbody>
<tr>
<td>PANEL MOUNT GASKET REPLACEMENT</td>
<td>EPDM</td>
<td>821290</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- **A** = Height/Diameter
- **D** = Total Length
- **D** = Elbow Radial Length

**HFC12 DIMENSIONS**

**Coupling Spacing:** 1.92” minimum

**Mounting Hole:** 1.21” diameter

**Gasket Thickness:** .06”

**Compression Spacing:** 1.32” minimum

**DID YOU KNOW?**

**WHEN SELECTING A VALVED COUPLING FOR YOUR APPLICATION,** make sure to order a part number with a 0 just before the numeric portion of the part number. For example, HFC101212 does not have a shutoff valve; HFC1012120 would be the correct part number to order for a valved coupling.

To visually identify a part to determine whether or not it is valved, disconnect the coupling body and insert, and then look through the part. If you can see light all the way through, your part is non-valved. If there is anything obstructing the light, you probably have a valved part. Please contact Customer Service at 1-800-444-2474 or 631-645-0091 if you need further assistance.

**TERMINATION**

**IN-LINE**

<table>
<thead>
<tr>
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<tbody>
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<td>1.00 2.00</td>
</tr>
<tr>
<td>1/2&quot; ID</td>
<td>HFC2012</td>
<td>1.00 2.00</td>
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<td>1.00 2.00</td>
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**Nose Barb**

<table>
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<tr>
<td>3/8&quot; ID</td>
<td>HFC2012</td>
<td>1.00 2.00</td>
<td>1.00 2.00</td>
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**Compression**

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<td>HFC2012</td>
<td>1.00 2.00</td>
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</tr>
</tbody>
</table>

**Accessories**

- **Panel Mount Bodies listed above**

**Also available in NSF listed versions, please visit our website for part number information.**
HFC35 & HFC57 SERIES CONNECTOR

Specifications

PRESSURE:
Vacuum to 125 psi, 8.6 bar
TEMPERATURE:
-40°F to 280°F (-40°C to 138°C)
MATERIALS:
Main components and valves:
HFC35 - Polysulfone
HFC57 - UV-resistant polysulfone
THUMB LATCH:
HFC35 - Polysulfone
HFC57 - UV-resistant polysulfone
Valve spring: 316 stainless steel
External springs: 316 stainless steel
O-rings: EPDM
Panel mount gasket: EPDM
Female GHT gasket: FDA EPDM
COLORS:
HCF35 - Natural white, dark gray latch
HCF57 - Black, black latch
TUBING SIZES:
3/8” to 3/4” ID, 9.5mm to 19.0mm ID

These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configuration selected, you can reasonably expect values to fall within the shaded area.

WARNING:
Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC products in their own application conditions. Use the graphs on the following page as a guide.

FEATURES

Polysulfone (HFC35)
Physically strong and autoclavable
UV Polysulfone (HFC57)
Physically strong and UV resistant
High efficiency valve
More flow and less spillage in a compact size
Ergonomic design
Easy to grip, simple to operate
Compatible
Mates with HFC12 couplings

DID YOU KNOW?

THE HFC57 SERIES POLYSULFONE COUPLINGS ARE UV-RESISTANT AND ABLE TO WITHSTAND CONTINUED EXPOSURE TO HARMFUL RAYS WITHOUT AFFECTING PERFORMANCE?

These couplings offer all the same features as our HFC12 and HFC35 Series with the added advantage of UV-resistance to protect the strength and durability of your fluid connections. Use the HFC57 couplings in outdoor applications such as waterscapes, lawn irrigation systems and solar heating on roofs and decks where a connector is subjected to the harsh rays of the sun.

NOTES:

Also available in NSF listed versions, please visit our website for part number information.
HFC35 Coupling Bodies • POLYETHYLENE

HFC35 Coupling Inserts • POLYETHYLENE

HFC57 Coupling Bodies • UV POLYSULFONE

HFC57 Coupling Inserts • UV POLYSULFONE

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted.
**FFC35 SERIES CONNECTOR**

**Specifications**

**PRESSURE:** Vacuum to 125 psi, 8.6 bar  
**TEMPERATURE:** -40°F to 280°F (-40°C to 138°C) 
**MATERIALS:**  
- Main components: Polysulfone 
- Thumb latch: Polysulfone 
- External spring: 304 stainless steel  
- O-rings: FDA Buna-N 
- Panel mount gasket: EPDM 
- Female GHT gasket: FDA EPDM  
**COLOR:** Natural white with dark gray latch  
**TUBING SIZES:** 3/4" ID, 19.0mm ID

**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC products in their own application conditions. Use the graphs on the following page as a guide.

**FEATURES**  
- No valves  
- Polysulfone material  
- Ergonomic design

**BENEFITS**  
- Exceptional flow  
- Physically strong and autoclavable  
- Easy to grip, simple to operate

**FFC35 Series 1/2” flow couplings** feature double the flow of the HFC Series couplings. The FFC Series has a non-valved bore that increases flow and minimizes turbulence. The polysulfone material is able to withstand demanding applications and features physical strength, chemical resistance and autoclavability. An ergonomic design and a large, slotted thumb latch pad produce a coupling that is easy to grip and simple to operate.

**NON-VALVED**  
CPC’s FFC35 Series couplings feature a wide open, straight-thru flow path.

**Accessories**

**DESCRIPTION**  
- PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above  
- GHT GASKET REPLACEMENT: For sealing female threads

**MATERIAL**  
- EPDM

**PART NO.**  
- 621300

**FFC35 SERIES CONNECTOR**

**Specifications**

**PRESSURE:** Vacuum to 125 psi, 8.6 bar  
**TEMPERATURE:** -40°F to 280°F (-40°C to 138°C) 
**MATERIALS:**  
- Main components: Polysulfone 
- Thumb latch: Polysulfone 
- External spring: 304 stainless steel  
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- Panel mount gasket: EPDM  
- Female GHT gasket: FDA EPDM  
**COLOR:** Natural white with dark gray latch  
**TUBING SIZES:** 3/4" ID, 19.0mm ID

**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC products in their own application conditions. Use the graphs on the following page as a guide.

**FEATURES**  
- No valves  
- Polysulfone material  
- Ergonomic design

**BENEFITS**  
- Exceptional flow  
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**NON-VALVED**  
CPC’s FFC35 Series couplings feature a wide open, straight-thru flow path.

**Accessories**

**DESCRIPTION**  
- PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above  
- GHT GASKET REPLACEMENT: For sealing female threads

**MATERIAL**  
- EPDM

**PART NO.**  
- 621300

**FFC35 SERIES CONNECTOR**

**Specifications**

**PRESSURE:** Vacuum to 125 psi, 8.6 bar  
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**MATERIALS:**  
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CPC’s FFC35 Series couplings feature a wide open, straight-thru flow path.

**Accessories**

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- PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above  
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**FFC35 SERIES CONNECTOR**

**Specifications**

**PRESSURE:** Vacuum to 125 psi, 8.6 bar  
**TEMPERATURE:** -40°F to 280°F (-40°C to 138°C) 
**MATERIALS:**  
- Main components: Polysulfone 
- Thumb latch: Polysulfone 
- External spring: 304 stainless steel  
- O-rings: FDA Buna-N  
- Panel mount gasket: EPDM  
- Female GHT gasket: FDA EPDM  
**COLOR:** Natural white with dark gray latch  
**TUBING SIZES:** 3/4" ID, 19.0mm ID

**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC products in their own application conditions. Use the graphs on the following page as a guide.

**FEATURES**  
- No valves  
- Polysulfone material  
- Ergonomic design

**BENEFITS**  
- Exceptional flow  
- Physically strong and autoclavable  
- Easy to grip, simple to operate

**FFC35 Series 1/2” flow couplings** feature double the flow of the HFC Series couplings. The FFC Series has a non-valved bore that increases flow and minimizes turbulence. The polysulfone material is able to withstand demanding applications and features physical strength, chemical resistance and autoclavability. An ergonomic design and a large, slotted thumb latch pad produce a coupling that is easy to grip and simple to operate.

**NON-VALVED**  
CPC’s FFC35 Series couplings feature a wide open, straight-thru flow path.

**Accessories**

**DESCRIPTION**  
- PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above  
- GHT GASKET REPLACEMENT: For sealing female threads

**MATERIAL**  
- EPDM

**PART NO.**  
- 621300
The Tentube™ coupling provides one easy-to-use quick disconnect for up to ten separate fluid lines. The Tentube is available with valves on the body side in panel mount or in-line configurations for maximum design flexibility. The Tentube can connect and disconnect up to ten lines with the use of a simple slide latch. Tubing orientation is ensured by keying the coupling body and insert. Different fluids and tubing sizes can be accommodated by using acetal or polypropylene inserts in three popular sizes.

**Specifications**

**PRESSURE:**
Vacuum to 100 psi, 6.9 bar per line

**TEMPERATURE:**
- Acetal fitting inserts:
  - -40°F to 180°F (-40°C to 82°C)
- Polypropylene fitting inserts:
  - 32°F to 180°F (0°C to 82°C)

**MATERIALS:**
- Main components: Nylon
- Valves: Acetal
- Valve springs: 316 stainless steel
- Fitting inserts: Acetal or polypropylene
- O-rings: Buna-N with acetal or EPDM with polypropylene
- Panel mount adapter: Acetal
- Tube shroud: Acetal

**COLOR:**
Black with red locking latch

**TUBING SIZES:**
1/16” to 1/8” ID, 1.6mm to 3.2mm ID

These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

**Features**

- Ten line connection
- Separate flow paths
- Insert is keyed to body
- Acetal or polypropylene inserts

**Benefits**

- Fast, efficient operation
- Pressure and/or vacuum in one coupling
- Ensures correct line orientation
- Maximum design flexibility

**TENTUBE DIMENSIONS**

**Panel Dimensions**

**COUPLING BOERTY**

**TENTUBE SERIES CONNECTOR**

**Accessories**

- **TUBE SHROUD:**
  - Snaps into either half

- **PANEL MOUNT ADAPTER & NUT:**
  - 7/16” max. panel thickness; requires 1.875” diameter hole

**PART NO.**

- **TSS10**

**Note:** Use TMF and TFF inserts and bodies for custom designed assemblies.

**Note:** Acetal bodies and inserts are also available in white. To order, add MWHT to the end of the part number.

**ALL MEASUREMENTS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED. TUBING MUST MEET STATED INSIDE AND OUTSIDE DIAMETERS. COUPLINGS ARE PICTURED WITH VALVES UNLESS OTHERWISE NOTED.**
**TWIN TUBE & SIXTUBE SERIES CONNECTOR**

**Twintube™ Body Panel Mount Dimensions**
- **PRESSURE:** Vacuum to 100 psi, 6.9 bar per line
- **TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

**Sixtube™ Insert Panel Mount Dimensions**
- **PRESSURE:** Vacuum to 100 psi, 6.9 bar per line
- **TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

**FEATURES**
- Two/six line connection
- Fast, efficient operation
- Separate flow paths
- Pressure/vacuum in one coupling
- Sixtube insert is keyed to body
- Ensures correct line orientation
- One-hand connection and disconnection

**BENEFITS**
- One-hand connection and disconnection
- Eliminates kinked tubing
- Ensures correct line orientation
- Pressure or vacuum in one coupling

**Twintube™ Specifications**
- **PRESSURE:** Vacuum to 100 psi, 6.9 bar per line
- **TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)
- **MATERIALS:**
  - Main components: Acetal, ABS
  - Valves: Acetal
  - Thumb latch: Stainless steel
  - External springs and pins: Stainless steel
  - O-rings: Buna-N

**Sixtube™ Specifications**
- **PRESSURE:** Vacuum to 100 psi, 6.9 bar per line
- **TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)
- **MATERIALS:**
  - Main components: Acetal
  - Valves: Acetal
  - Fitting inserts: Acetal, polypropylene

**TUBING SIZES:**
- 1/16” to 1/8” ID, 1.6mm to 3.2mm ID

**COLOR:**
- Natural white

**Buna-N O-rings:**
- Stainless steel external springs and pin:
- Thumb latch: Stainless steel

**Valves:**
- Acetal

**Polypropylene fitting inserts:**
- Acetal fitting inserts:
  - 1.6mm ID

**Panel Thickness:**
- 1/32” to 1/16” MIN

**Smart fluid handling to take you forward, faster.**

---

**NOTE:**
These graphics are intended to give you a general idea of the performance capabilities of each product line. The shaded areas on the graphs indicate the range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configuration selected, you can reasonably expect values to fall within the shaded area.
**MULTI-MOUNT SERIES CONNECTOR**

**Specifications**

**PRESSURE:**
- Minimum: Vacuum
- Maximum: Brass = 500 psi/”” of stations or Acetal = 340 psi/”” of stations

**TEMPERATURE:**
- -40°F to 180°F (445°C to 82°C)

**MATERIALS:**
- Main components: Acetal or chrome-plated brass
- Mounting Plate: Black anodized aluminum
- Valve: Acetal
- Valve spring: 316 stainless steel
- External springs and pin: Stainless steel
- O-ring: Nitril-N

**TUBING SIZES:**
- 1/8” to 3/8” ID, 3.2mm to 9.5mm ID

**Features**

- Separate flow paths
- Pressure and vacuum in one coupling
- Insert is keyed to body
- A method for correct line orientation
- Acetal or chrome-plated brass
- Maximum design flexibility

**Benefits**

- Fast, efficient operation
- Provides one easy-to-use coupling for connecting from three to five lines at once
- Multi-mount couplings are available in a wide variety of materials including acetal and chrome-plated brass. Multi-mounts are keyed to prevent mismatched connections and can be configured with or without valves for maximum design flexibility.

**Multi-Mount couplings**

- Provide one easy-to-use coupling for connecting from three to five lines at once.
- Multi-mount couplings are available in a wide variety of materials including acetal and chrome-plated brass. Multi-mounts are keyed to prevent mismatched connections and can be configured with or without valves for maximum design flexibility.

**FEATURES**

- Three to five line connection
- Separate flow paths
- Insert is keyed to body
- Acetal or chrome-plated brass

**BENEFITS**

- Fast, efficient operation
- Ensures correct line orientation
- Provides one easy-to-use coupling for connecting from three to five lines at once
- Multi-mount couplings are available in a wide variety of materials including acetal and chrome-plated brass. Multi-mounts are keyed to prevent mismatched connections and can be configured with or without valves for maximum design flexibility.

**Multi-Mount Ordering Process**

**Step 1:** Determine flow size and termination type.

**Step 2:** Order two “multiple mount plates” (one for the exterior stations for your specific application (available in 3, 4, or 5 connections, or one for the coupling inserts) with the appropriate number of connection stations.

**Step 3:** Order an appropriate number of “multiple mount coupling bodies” for connecting to standard and multiple mount couplings.

**Step 4:** Order 4.10” (101mm) 1/4” OD coupling bodies in non-shaded sections.

**Multiple Mount Plates**

- The exterior stations for your specific application (available in 3, 4, or 5 connections, or one for the coupling inserts) with the appropriate number of connection stations.

**Retaining clip**

- Is included with each mount.

**Multi-Mount Minimum Coupling Spacing:**

- Multiple mount minimum coupling spacing: 1/2” 5/8” 3/4” 1” 2” 3” 4” 5” 6”

**Multi-Mount Series Dimensions**

- Multiple mount plates are keyed to prevent mismatches.

**Retaining Rings**

- P/M/M = Multi-Mount

**Acetal or chrome-plated brass**

- Separate flow paths
- Pressure and vacuum in one coupling
- Insert is keyed to body
- A method for correct line orientation
- Acetal or chrome-plated brass
- Maximum design flexibility

**Four-Step Multi-Mount Ordering Process**

**Step 1:** Determine flow size and termination type.

**Step 2:** Order two “multiple mount plates” (one for the exterior stations and one for the coupling inserts) with the appropriate number of connection stations for your specific application (available in 3, 4, or 5 connections, or construct your own). Refer to next page.

**Step 3:** Order two “standard panel mount coupling bodies with thumb latches” for the exterior stations.

**Step 4:** Order an appropriate number of “multiple mount coupling bodies without thumb latches” to accommodate the remaining interior stations.

**Step 5:** Order an appropriate number of “multiple mount inserts” to connect with standard and multiple mount couplings.
BQ45GL SERIES CONNECTOR

BQ45GL Series Bottle Caps include a quick disconnect coupling or FitQuik® connector integrated into a cap designed for 45GL bottles. The BQ45GL series feature a hydrophobic packaging vent, polyethylene gasket and a hose barb for mounting a dip tube. Adding quick disconnects to media bottles makes changing laboratory consumable products safer and easier.

**Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factory installed quick disconnects</td>
<td>Ensures cap properly seals to bottle (even without sealing rings)</td>
</tr>
<tr>
<td>Hydrophobic packaging vent</td>
<td>Encourages proper fluid handling protocol allowing easy disconnections to replace or refill consumables in the correct location</td>
</tr>
<tr>
<td>Polyethylene foam gasket</td>
<td>Allows dispensing from container while preventing accidental spillage</td>
</tr>
<tr>
<td>Integral hose barb</td>
<td>Allows for mounting of 1/4” OD DIP tube</td>
</tr>
</tbody>
</table>

**Specifications**

**Temperature:**
32°F to 120°F (0°C to 49°C)

**Materials:**
- Base Cap: High density polyethylene
- Gasket: Low density polyethylene
- Packaging Vent: Hydrophobic PTFE
- Quick Disconnects: Polypropylene, with 316 stainless steel springs and EPDM o-rings
- FitQuik Connector: Polypropylene

**Color:** Blue

**Tubing Sizes:**
- FitQuik connector: 1/4” OD
- DIP tube interface: 1/4” ID

**Notes:**

**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC products in their own application conditions.

**BQ45GL DIMENSIONS**

**Bottle Caps • Polyethylene**

**DESCRIPTION**
GL45 HDPE Cap with Polyethylene Foam Sealing Gasket, Hydrophobic Vent and Integral PME Body Quick Disconnect Interface

**PART NO.**

<table>
<thead>
<tr>
<th>Dip Tube Size</th>
<th>Connector Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>BQ45GL1001</td>
<td>1/4” OD</td>
<td>0.68”</td>
<td>0.83”</td>
<td>2.04”</td>
</tr>
<tr>
<td>BQ45GL2001</td>
<td>1/4” OD</td>
<td>1.08”</td>
<td>0.83”</td>
<td>2.04”</td>
</tr>
<tr>
<td>BQ45GL5001</td>
<td>1/4” OD</td>
<td>0.63”</td>
<td>0.83”</td>
<td>2.04”</td>
</tr>
</tbody>
</table>

**NOTES:**

- **A** = Coupling
- **B** = Cap Height
- **C** = Cap Diameter
Hybrid Connectors integrate air lines, electrical connections and fluid lines into a single, compact connection point for remote tools on medical devices and equipment. Eliminating the potential for misconnecting tubing and wires, CPC’s Hybrid Connector platform options reduce multiple connections and allow clinicians or patients to quickly and easily change or replace modular tools, umbilicals or hand pieces.

Large Format Hybrid Connector — Now available with four times the flow capacity, this connector features multiple dry-break couplings and easy-to-use twist latch for secure, repeatable connection of multiple lines.

**Specifications**

**PRESSURE:**
Vacuum to 45 psi, 3.1 bar

**TEMPERATURE:**
32°F to 120°F (0°C to 49°C)

**MATERIALS:**
Non-wetted coupler components: Glass-filled polypropylene
Wetted coupler components: Glass-filled polypropylene
Springs: Stainless steel
Electrical contacts: Gold-plated copper alloy
O-rings: EPDM
Fluid tubing: Polyurethane (PU)
Umbilical tubing: PVC

**COLOR:** Gray

**TERMINATIONS:**
Panel: Two 1/8” (3.2mm) hose barbs on panel and four 20 ga wires with 12” (304.3mm) pigtail
Umbilical Hose: Ø (2.44M) umbilical with two 1/8” (3.2mm) ID PU tubing and four 20ga wires with 3” (76.2mm) pigtail

**NUMBER OF FLUID LINES:** 2

**ELECTRICAL SPECIFICATIONS**
Voltage: Up to 24VDC
Current: Up to 3 Amps
Wire gauge: 20AWG
Number of contacts: 4

**HYBRID SERIES CONNECTOR FEATURES**

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single connection point for pneumatic, fluid, and power connections between a device and its tool/hand piece</td>
<td>Increases safety and makes systems data more user friendly</td>
</tr>
<tr>
<td>Non-spill shutoff valves with dry-break technology</td>
<td>Eliminate fluid drips upon disconnect and minimize air inclusion</td>
</tr>
<tr>
<td>Turnkey solution</td>
<td>Reduces multiple components</td>
</tr>
<tr>
<td>Off-the-shelf assembly</td>
<td>Minimizes engineering design and manufacturing effort</td>
</tr>
<tr>
<td>Custom options available</td>
<td>Flexibility to add additional fluid connector or electrical contacts</td>
</tr>
</tbody>
</table>

**Coupling Hose • POLYPROPYLENE**

**Configuration**

<table>
<thead>
<tr>
<th>Hose</th>
<th>Flow Paths</th>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” ID (3.2mm)</td>
<td>QQC17002</td>
<td>2.00</td>
<td>2.80</td>
<td>3.00</td>
<td>8.00</td>
<td></td>
</tr>
</tbody>
</table>

**Coupling Panel • POLYPROPYLENE**

**Configuration**

<table>
<thead>
<tr>
<th>Panel Mount</th>
<th>Flow Paths</th>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>LQCD40001</td>
<td>1.96</td>
<td>1.12</td>
<td>12.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MINI HYBRID SERIES CONNECTOR

Mini Hybrid Connector – A compact, single connection point with a smaller form factor that is ideal for use in low-pressure applications where ease of use and ergonomics are important. This connector makes it easy to connect power, signal and gases in one simple motion.

**Specifications**

<table>
<thead>
<tr>
<th>PRESSURE:</th>
<th>Vacuum to 25 psi, 1.7 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMPERATURE:</td>
<td>40°F to 80°F (4°C to 27°C)</td>
</tr>
<tr>
<td>COLOR:</td>
<td>Gray</td>
</tr>
<tr>
<td>EXTERNAL UMBILICAL HOSE:</td>
<td>4 feet (121 cm) PVC</td>
</tr>
<tr>
<td>WIRE:</td>
<td>22AWG PVC jacket</td>
</tr>
<tr>
<td>TERMINATIONS:</td>
<td>Panel: 1/16” hose barb and two 22AWG wires with 11” pigtail Umbilical: 4’ (121 cm) umbilical with one 1/16” ID PVC tube and two 22AWG wires with 6” pigtail</td>
</tr>
<tr>
<td>NUMBER OF AIR LINES:</td>
<td>1</td>
</tr>
</tbody>
</table>

**ELECTRICAL SPECIFICATIONS**

| Voltage: | Up to 24VDC |
| Current: | Up to 3 Amps |
| Wire: | 22AWG with PVC jacket |
| Number of contacts: | 2 |

**MINI HYBRID SERIES CONNECTOR FEATURES & BENEFITS**

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy-to-use breakaway design</td>
<td>Quick, automatic disconnect</td>
</tr>
<tr>
<td>Small package design</td>
<td>Minimize device size</td>
</tr>
<tr>
<td>Streamlined exterior</td>
<td>Clean, attractive appearance</td>
</tr>
<tr>
<td>Proven design</td>
<td>Accelerate product development</td>
</tr>
</tbody>
</table>

**MINI HYBRID SERIES DIMENSIONS**

```plaintext
Panel Dimensions

Coupling Hose • PET AND ACETAL

<table>
<thead>
<tr>
<th>CONFIGURATION</th>
<th>FLOW PATH</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANEL MOUNT</td>
<td>1/16” ID (1.6mm)</td>
<td>MINQ267600</td>
</tr>
</tbody>
</table>

Coupling Panel • PET AND ACETAL

<table>
<thead>
<tr>
<th>CONFIGURATION</th>
<th>FLOW PATH</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANEL MOUNT</td>
<td>1/16” ID (1.6mm)</td>
<td>MINQ243000</td>
</tr>
</tbody>
</table>
```

**NOTES:**
Redefine what’s possible for controlling, protecting and streamlining fluid handling processes. RFID-enabled quick disconnect couplings allow the robust transfer of fluid and information in a limitless number of applications across multiple industries.
INTELLIGENT FLUID CONNECTIONS

RFID-based IdentiQuik® quick disconnect couplings redefine what's possible for controlling, protecting and streamlining fluid handling processes. A patented design embeds RFID-based electronic intelligence into a variety of our most popular and industry-leading coupling configurations, enabling the exchange of rewritable data once the coupling halves come within a few centimeters of one another. This intelligent technology allows you to protect your brand, minimize misconnections, prolong equipment life and increase efficiency.

IdentiQuik couplings are ideal for applications with a product involving: onboard electronics and parts or media that are consumable or expensive; the need to control equipment life and increase efficiency.

Once the coupling halves come within a few centimeters of one another, this intelligent technology allows you to protect your brand, minimize misconnections, prolong equipment life and increase efficiency.

IdentiQuik couplings are available in a vast array of sizes and configurations that includes all our most popular product lines, opening endless new possibilities for your fluid handling processes. A patented design one for you.

Find the ideal solution from our standard offering? Let our engineered solutions team help you.

IdentiQuik Universal Dispensing Couplers (UDC) allow the robust transfer of fluid and information in a limitless number of applications across multiple industries. IdentiQuik couplings provide a universal connection to a 38mm fitment neck, allowing you to make instant connections to bulk packaging systems. The automatic flush face valves minimize costly or dangerous spillage, and an ergonomic design and large, shrouded thumb latch pad make the coupling easy to grip and simple to operate.

APPLICATIONS FOR UDC COUPLINGS INCLUDE:
- Bag-in-box (BIB) packaging systems
- Rigid bulk packaging systems
- Flexible bulk packaging systems
- Many more

IdentiQuik Universal Dispensing Couplers (UDC) provide a universal connection to a 38mm fitment neck, allowing you to make instant connections to bulk packaging systems. The automatic flush face valves minimize costly or dangerous spillage, and an ergonomic design and large, shrouded thumb latch pad make the coupling easy to grip and simple to operate.

THOUSANDS OF CONFIGURATIONS TO MEET YOUR NEEDS

IdentiQuik couplings are available in a vast array of sizes and configurations that includes all our most popular product lines, opening endless new possibilities for your fluid handling processes.

Use this table to quickly find the right IdentiQuik coupling for your application. Can’t find the ideal solution from our standard offering? Let our engineered solutions team help you.

Flow Capacity

- Small
- Medium
- Large

Spillage Upon Disconnect

- None NS4
- Minimal UDC
- Little SMC
- Minor PLC

IdentiQuik Universal Dispensing Couplers (UDC) provide a universal connection to a 38mm fitment neck, allowing you to make instant connections to bulk packaging systems. The automatic flush face valves minimize costly or dangerous spillage, and an ergonomic design and large, shrouded thumb latch pad make the coupling easy to grip and simple to operate.

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Flow Capacity

- Small
- Medium
- Large

Spillage Upon Disconnect

- None NS4
- Minimal UDC
- Little SMC
- Minor PLC

IdentiQuik Universal Dispensing Couplers (UDC) allow the robust transfer of fluid and information in a limitless number of applications across multiple industries. IdentiQuik couplings provide a universal connection to a 38mm fitment neck, allowing you to make instant connections to bulk packaging systems. The automatic flush face valves minimize costly or dangerous spillage, and an ergonomic design and large, shrouded thumb latch pad make the coupling easy to grip and simple to operate.

APPLICATONS FOR UDC COUPLINGS INCLUDE:
- Bag-in-box (BIB) packaging systems
- Rigid bulk packaging systems
- Flexible bulk packaging systems
- Many more

Smart fluid handling to take you forward, faster.
**CHEMICAL-RESISTANT AND HIGHLY VERSATILE**

**IdentiQuik PLC12 Coupling**

Glass-filled polypropylene is injection-molded from polypropylene thermoplastic and is resistant to many chemical solutions. This popular coupling features one-hand connection and disconnection, and offers superior chemical resistance, and the EPDM o-ring adds expanded chemical compatibility for more demanding applications. PLC12 couplings can be ordered in a vast range of sizes and configurations to meet the needs of your application.

**APPLICATIONS FOR PLC12 COUPLINGS INCLUDE:**
- Flavor concentrates
- Cosmetic ingredients
- Laser cooling
- Many more

IdentiQuik PLC12 Couplings are injection-molded from polypropylene thermoplastic and are resistant to many chemical solutions.

**Specifications**

- **PRESSURE:** Vacuum to 120 psi, 8.3 bar
- **TEMPERATURE:** 32°F to 150°F (0°C to 65°C)
- **MATERIALS:** Main components and valves: Polypropylene
- Valve spring: 316 stainless steel
- External springs and pins: Stainless steel
- O-rings: EPDM
- **COLOR:** Almond
- **TUBING SIZE:** 1/4" to 3/8", 6.4mm to 9.5mm
- **INTERFACE:** Multi-drop 2-ft. (60 cm) cable with RS-232 or USB connector
- **OPERATING VOLTAGE:** RS-232: 8V – 24V
- **USB:** 5V
- **POWER CONSUMPTION:** 1.2W maximum
- **RF COMMUNICATION RANGE:** Approximately 1"*
- **RFID TAG:** ISO 15693, 13.56MHz, 112 bytes programmable

**Coupling Readers • POLYPROPYLENE**

**Coupling Inserts • POLYPROPYLENE**

**FAST, SAFE AND LEAK-FREE FLUID CONNECTIONS**

**IdentiQuik NS4 Non-Spill (NS) Coupling**

IdentiQuik NS4 Non-Spill (NS) Couplings are designed with double-sided non-spill-shutoff valves that enable drop-free disconnections and prevent air entering the lines at connection, minimizing downtime and enhancing operator safety. These easy-to-use, lightweight couplings are chemically resistant and offer broad chemical compatibility.

**APPLICATIONS FOR NS4 COUPLINGS INCLUDE:**
- Large-format printing
- Inket printing
- Many more

**Specifications**

- **PRESSURE:** Vacuum to 120 psi, 8.3 bar
- **TEMPERATURE:** 32°F to 150°F (0°C to 65°C)
- **MATERIALS:**
  - Main body components and valves: Glass-filled polypropylene
  - Thumb latch: Glass-filled polypropylene
  - Springs: 316 stainless steel
  - Valve spring: 316 stainless steel
  - External springs: 316 stainless steel
  - O-rings: EPDM (FKM optional)
  - Soft-touch overmold: TPV
- **COLOR:** Gray with dark grey overmold
- **LUBRICANTS:** Krytox® PFPE (inert)
- **TUBING SIZE:** 1/8" to 3/8", 3.2mm to 9.5mm
- **INTERFACE:** Multi-drop 2-ft. (60 cm) cable with RS-232 or USB connector
- **OPERATING VOLTAGE:** RS-232: 8V – 24V
- **USB:** 5V
- **POWER CONSUMPTION:** 1.2W maximum
- **RF COMMUNICATION RANGE:** Approximately 1"
- **RFID TAG:** ISO 15693, 13.56MHz, 112 bytes programmable

**Coupling Readers • POLYPROPYLENE**

**Coupling Inserts • POLYPROPYLENE**

*All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted.

**Thrifty fluid handling to take you forward, faster.**

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96 97
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IdentiQuik Subminiature Couplings (SMC) offer a reliable and secure alternative to luer-type connections, combining twist-to-connect simplicity with the security of RFID technology. Free rotation eliminates kinking and accidental connection during use.

**APPLICATIONS FOR SMC COUPLINGS INCLUDE:**
- Air lines
- Reagents
- Surgical irrigation lines
- Many more

### OUR MOST COMPACT COUPLING

**IdentiQuik® Subminiature Coupling (SMC)**

#### Specifications

- **PRESSURE:** Vacuum to 100 psi, 6.9 bar
- **TEMPERATURE:** 32°F to 150°F (0°C to 65°C)
- **MATERIALS:**
  - Main components and valves: Acetal, Polypropylene
  - Locking sleeves: Acetal
  - Valves: Acetal
  - Valve spring: 316 stainless steel
  - O-rings: Buna-N with acetal or EPDM with polypropylene
- **COLOR (MAIN COMPONENTS):**
  - Natural white (acetal), almond (polypropylene)
- **TUBING SIZE:**
  - 1/16” to 1/8” ID, 1.6mm to 3.2mm ID
  - Hose ID ranges between 0.1” to 0.15” (6.4mm to 3.8mm)
- **INTERFACE:** Multi-drop 2-ft. (60 cm) cable with RS-232 or USB connector
- **OPERATING VOLTAGE:**
  - RS-232: 8V – 24V
  - USB: 5V
- **POWER CONSUMPTION:**
  - 1.2W maximum
- **RF COMMUNICATION RANGE:** Approximately 1”
- **RFID TAG:**
  - ISO 15693, 13.56MHz, 112 bytes programmable

### Coupling Bodies • ACETAL

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING SIZE</th>
<th>METRIC EQ.</th>
<th>STRAIGHT THRU</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARN</td>
<td>1/16” ID</td>
<td>1.6mm ID</td>
<td>GMFT0103</td>
</tr>
<tr>
<td></td>
<td>1/8” ID</td>
<td>3.2mm ID</td>
<td>GMFT0203</td>
</tr>
</tbody>
</table>

**NOTE:** All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

### Coupling Inserts • ACETAL

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING SIZE</th>
<th>METRIC EQ.</th>
<th>STRAIGHT THRU</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARN</td>
<td>1/16” ID</td>
<td>1.6mm ID</td>
<td>GMFT0103</td>
</tr>
<tr>
<td></td>
<td>1/8” ID</td>
<td>3.2mm ID</td>
<td>GMFT0203</td>
</tr>
</tbody>
</table>

**NOTE:** All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

For more than 35 years, CPC engineers have worked with customers worldwide to design application-specific solutions that resolve their fluid handling-related challenges and improve product performance. We can do the same for you.

**COMMON IDENTIQUIK® COUPLINGS CUSTOM APPLICATIONS INCLUDE:**
- Weight, pressure, temperature and flow sensing
- Bulkhead mount readers
- Multiplexing technology

**UNMATCHED CUSTOMIZATION CAPABILITIES**

For more than 35 years, CPC engineers have worked with customers worldwide to design application-specific solutions that resolve their fluid handling-related challenges and improve product performance. We can do the same for you.
CPC is the leading provider of quick disconnect couplings, connectors and fittings for the life sciences and the leader in single-use connection technology for bioprocessing applications. CPC thinks beyond the point of connection to improve patient safety, prevent misconnections and increase the overall usability and effectiveness of medical devices. Our products are used across a broad range of medical devices and equipment, including surgical, dialysis, blood pressure monitoring, patient therapy devices and in vitro diagnostics.

CPC’s wide range of robust sterile connect and disconnect solutions allow biopharmaceutical manufacturers to easily combine multiple components, single-use or hybrid systems while maintaining media sterility and integrity. Our genderless sterile connector technology maximizes system flexibility and simplifies process integration.

CPC’s Quality Management System is ISO 13485 certified and our products for the life sciences are manufactured in an ISO Class 7 certified cleanroom.
**SMC SERIES**

The SMC is a twist-to-connect coupling that provides a reliable and more secure alternative to luer-type connections. It also allows for the tubing to rotate freely when connected. This important feature prevents both kinked tubing and accidental disconnection during use.

### Specifications

- **PRESSURE:** Vacuum to 100 psi, 6.9 bar
- **TEMPERATURE:** -40°F to 250°F (-40°C to 121°C)
- **MATERIALS:**
  - Main components: Polycarbonate, USP Class VI, ADFC
  - Locking sleeves: Polycarbonate, USP Class VI, ADFC
  - O-rings: Buna-N, USP Class V, ADFC
- **COLOR:** Main components: Purple tint
- **STERILIZATION:** Gamma: Up to 50 kGy irradiation
- **TUBING SIZES:** 1/16” to 1/8” ID, 1.6mm to 3.2mm ID

### Features vs. Benefits

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twist to connect</td>
<td>Prevents accidental disconnects</td>
</tr>
<tr>
<td>Free coupling rotation</td>
<td>Eliminates kinked tubing</td>
</tr>
<tr>
<td>Safer, prevents misconnections</td>
<td>Does not mate to luers</td>
</tr>
</tbody>
</table>

### Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

### CV VALUES FOR SUBMINIATURE COUPLINGS

\[
Q = C_v \cdot \sqrt{A} \cdot S
\]

- \(Q\) = Flow rate in gallons per minute
- \(C_v\) = Average coefficient across various flow rates (see chart)
- \(A\) = Flow rate across various flow rates (see chart)
- \(S\) = Specific gravity of liquid

<table>
<thead>
<tr>
<th>TUBING SIZE</th>
<th>METRIC EQ.</th>
<th>STRAIGHT THRU</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/16” ID</td>
<td>1.6mm ID</td>
<td>1/2” ID</td>
</tr>
<tr>
<td>1/8” ID</td>
<td>3.2mm ID</td>
<td>3/4” ID</td>
</tr>
</tbody>
</table>

### SMC SERIES DIMENSIONS

**Termination:**

- **IN-LINE**
- **HOSE BARB**

**TUBING SIZES:**

- **METRIC EQ.**
- **STRAIGHT THRU**

- 1/16” ID
- 1.6mm ID
- 1/2” ID
- 3/4” ID

### Coupling Bodies • POLYCARBONATE

- **Termination:** IN-LINE
- **Tubing Size:** 1/16” ID
- **Metric EQ.:** 1.6mm ID
- **Straight Thru:** A = 0.48, B = 0.75/.90

### Coupling Inserts • POLYCARBONATE

- **Termination:** IN-LINE
- **Tubing Size:** 1/16” ID
- **Metric EQ.:** 1.6mm ID
- **Straight Thru:** A = 0.48, B = 0.90

### Coupling Set • POLYCARBONATE

- **Termination:** IN-LINE
- **Tubing Size:** 1/16” ID
- **Metric EQ.:** 1.6mm ID
- **Straight Thru:** A = 0.48, B = 1.61
The SRC connector is a small bore connector that eliminates the potential for misconnections with luer fittings. The intuitive design is simple for end users to operate and provides an audible "click" for added assurance and a secure, leak-free connection. This new connector features a unique elastomeric seal with a smooth, gap-free flow path that provides better flow characteristics and eliminates stagnant flow areas.

**Specifications**

**PRESSURE:**
Vacuum to 25 psi, 1.7 bar

**TEMPERATURE:**
32°F to 110°F (0°C to 43°C) (rated for shipment uncoupled up to 160°F)

**MATERIALS:**
Main components: Polypropylene with overmolded TPE* pads, USP Class VI, AECF

**INTEGRAL SEALS:**
Overmolded TPE*, USP Class VI, AECF

**COLOR:**
White with blue pads

**STERILIZATION:**
EtO, e-beam or gamma

**TUBING SIZES:**
1/8” to 3/16” ID, 3.2mm to 4.8mm ID

---

**Features**

<table>
<thead>
<tr>
<th>Prevents misconnections</th>
<th>Won't connect to IV lines and other non-compatible applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reliable elastomeric seals</td>
<td>Leak-free connections</td>
</tr>
<tr>
<td>Audible &quot;click&quot; and positive feel</td>
<td>Operators know when a secure, reliable connection is made</td>
</tr>
<tr>
<td>Allows tubing rotation</td>
<td>Prevents accidental disconnect or kinked tubing</td>
</tr>
</tbody>
</table>

---

**SRC SERIES DIMENSIONS**

![Diagram](image)

**Panel Dimensions**

<table>
<thead>
<tr>
<th>PANEL opening</th>
<th>PANEL THICKNESS</th>
<th>PANEL NUT HEX</th>
<th>PANEL NUT THREAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16”</td>
<td>21–23</td>
<td>1/2</td>
<td>3/16-24UNS</td>
</tr>
</tbody>
</table>

**Coupling Bodies**

- **POLYPROPYLENE**
  - TERMINATION: IN-LINE
  - TUBING SIZE: 1/8” ID, 3.2mm ID
  - METRIC EQ.: 4.8mm ID
  - STRAIGHT THRU: SRC1702

- **CHROME-PLATED BRASS**
  - TERMINATION: IN-LINE
  - TUBING SIZE: 1/8” ID, 3.2mm ID
  - METRIC EQ.: 4.8mm ID
  - STRAIGHT THRU: SRC4203CB

**Accessories**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRC3L</td>
<td>Tethered cap and plug for SRC body and insert</td>
<td>White medical-grade TPE</td>
</tr>
</tbody>
</table>

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---
MPC SERIES CONNECTOR

MPC Series couplings add ease of use and security to critical fluid handling applications. Choose from a full line of connectors and configurations, including pressure sealing caps and plugs, in sizes to fit 1/8” to 3/8” tubing. MPC couplings offer optional locking sleeves to further guard against accidental disconnects. In addition, coupling halves can be rotated when connected to reduce tube kinks.

FEATURES
- Ergonomic Thumb latch
- Easy to operate – even with gloved hands
- USP Class VI materials
- Meet biocompatibility requirements
- Sterilizable by autoclave, EO, e-beam, or gamma
- Reusable, yet economical enough to allow disposability
- Parting line-free hose barb
- Eliminates potential leak path
- ADFC-free materials
- Meet BSE/TSE requirements

BENEFITS
- Meet pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC products in their own application conditions.
- This graph is intended to give you a general idea of the performance capabilities of each product line. The shaded area of the graph represents the operating range shown. Therefore, depending on the exact coupling configuration needed, you can reasonably expect values to fall within the shaded area.

PRODUCT DIMENSIONS

Specifications

PRESSURE:
Vacuum to 60 psig. 4.1 bar

TEMPERATURE:
ABS:
-40°F to 160°F (-40°C to 71°C)
Polycarbonate:
-40°F to 250°F (-40°C to 121°C)
Polysulfone:
-40°F to 300°F (-40°C to 149°C)

MATERIALS:
- Main components:
  ABC (white), USP Class VI
  Polycarbonate (purple tint), USP Class VI, ADCF
  Polysulfone (amber tint), USP Class VI, ADCF
- Locking sleeves:
  Polysulfone (white), USP Class VI
  ADFC
- Thumb Latches:
  Polycarbonate (white), USP Class VI
  Polysulfone (amber tint), USP Class VI, ADCF

STERILIZATION:
- Gamma: Up to 50 kGy irradiation
- Autoclave: Up to 250°F (121°C), 10 minutes, up to 25 repetitions. Sterile accepted only.
- Polysulfone: Up to 270°F (121°C) for 60 minutes, up to 25 repetitions. Sterile accepted only.

TUBING SIZES:
1/8” to 1/8” ID (3.2mm to 5.5mm)

WARNING:
Remember, pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC’s products in their own application conditions.

For complete specifications, please visit www.cpcworldwide.com.
CV VALUES FOR MPC SERIES COUPLINGS

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for CPC couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula at the right.

MPC SERIES CONNECTOR (cont.)

Mating Parts

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>( Q )</th>
<th>( P )</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC17006T03</td>
<td>0.14 2.8 5.5</td>
<td>Polysulfone</td>
<td>1.30 (13.0)</td>
<td>1.30 (13.0)</td>
</tr>
<tr>
<td>MPC17002T03</td>
<td>0.11 - 0.21</td>
<td>Polysulfone</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>MPC17004T03</td>
<td>0.21 2.8 2.8</td>
<td>Polysulfone</td>
<td>1.30 (13.0)</td>
<td>1.30 (13.0)</td>
</tr>
<tr>
<td>MPC22002T03</td>
<td>0.21 2.8 2.8</td>
<td>Polysulfone</td>
<td>1.30 (13.0)</td>
<td>1.30 (13.0)</td>
</tr>
<tr>
<td>MPC22004T03</td>
<td>0.21 2.8 2.8</td>
<td>Polysulfone</td>
<td>1.30 (13.0)</td>
<td>1.30 (13.0)</td>
</tr>
<tr>
<td>MPC22006T03</td>
<td>0.21 2.8 2.8</td>
<td>Polysulfone</td>
<td>1.30 (13.0)</td>
<td>1.30 (13.0)</td>
</tr>
</tbody>
</table>


FEATURES

- Compatible with MPC and MPX Series inserts.
- Easy conversion to industry standard connections or single-use systems.
- Tubing reduction option.
- Allows easy transition between multiple size tubing from 1/8” to 1/2” ID.
- Exposed thumb latches.
- Easy to operate - even with gloved hands.
- ADF-free materials.
- Meet BSE/TSE requirements.

BENEFITS

- Easy conversion to industry standard connections or single-use systems.
- Allows easy transition between multiple size tubing from 1/8” to 1/2” ID.
- Easy to operate - even with gloved hands.
- ADF-free materials.
- Meet BSE/TSE requirements.

Back-To-Back Insert Adapters

- **POLYSULFONE**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>MATERIAL</th>
<th>( Q )</th>
<th>( P )</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC22002T03</td>
<td>MPC to MPC</td>
<td>Polysulfone</td>
<td>0.98 (25.0)</td>
<td>2.42 (65.1)</td>
</tr>
<tr>
<td>MPC22004T03</td>
<td>MPC to MPC</td>
<td>Polysulfone</td>
<td>0.98 (25.0)</td>
<td>2.42 (65.1)</td>
</tr>
<tr>
<td>MPC22006T03</td>
<td>MPC to MPC</td>
<td>Polysulfone</td>
<td>0.98 (25.0)</td>
<td>2.42 (65.1)</td>
</tr>
</tbody>
</table>

Note: Mates with MPC and MPX bodies, inserts and sealing caps and plugs. (pages 106-111).

Back-To-Back Body Adapters

- **POLYCARBONATE**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>MATERIAL</th>
<th>( Q )</th>
<th>( P )</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC17002T03</td>
<td>MPC to MPC</td>
<td>Polycarbonate</td>
<td>0.98 (25.0)</td>
<td>2.44 (62.0)</td>
</tr>
<tr>
<td>MPC17004T03</td>
<td>MPC to MPC</td>
<td>Polycarbonate</td>
<td>0.98 (25.0)</td>
<td>2.44 (62.0)</td>
</tr>
<tr>
<td>MPC17006T03</td>
<td>MPC to MPC</td>
<td>Polycarbonate</td>
<td>0.98 (25.0)</td>
<td>2.44 (62.0)</td>
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</table>

- **POLYSULFONE**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>MATERIAL</th>
<th>( Q )</th>
<th>( P )</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC17002T03</td>
<td>MPC to MPC</td>
<td>Polysulfone</td>
<td>0.98 (25.0)</td>
<td>2.44 (62.0)</td>
</tr>
<tr>
<td>MPC17004T03</td>
<td>MPC to MPC</td>
<td>Polysulfone</td>
<td>0.98 (25.0)</td>
<td>2.44 (62.0)</td>
</tr>
<tr>
<td>MPC17006T03</td>
<td>MPC to MPC</td>
<td>Polysulfone</td>
<td>0.98 (25.0)</td>
<td>2.44 (62.0)</td>
</tr>
</tbody>
</table>

Note: Mates with MPC and MPX bodies, inserts and sealing caps and plugs. (pages 106-111).


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Smart fluid handling to take you forward, faster.
MPX SERIES CONNECTOR

FEATURES
- Ergonomic thumb latch
- Easy to operate – even with gloved hands
- USP Class VI materials
- Meet biocompatibility requirements
- Sterilizable by autoclave, E0, e-beam, or gamma
- Easy to operate
- Allow disposability
- Reusable, yet economical enough to allow disposability
- Reduce potential leak path
- Eliminates potential leak path
- ADFC-free materials
- Meet BSE/TSE requirements

BENEFITS
- Easy to operate even with gloved hands
- USP Class VI materials
- Meet biocompatibility requirements
- Sterilizable by autoclave, E0, e-beam, or gamma
- Easy to operate
- Allow disposability
- Reusable, yet economical enough to allow disposability
- Reduce potential leak path
- Eliminates potential leak path
- ADFC-free materials
- Meet BSE/TSE requirements

Specifications

PRESSURE:
- Vacuum to 60 psi, 4.1 bar

TEMPERATURE:
- Polycarbonate: -40°F to 250°F (-40°C to 121°C)
- Polysulfone: -40°F to 300°F (-40°C to 149°C)

MATERIALS:
- Main components:
  - Polycarbonate (white), USP Class VI, ADFC
  - Polysulfone (amber tint), USP Class VI, ADFC
  - Polyethylene (PE), 30°C to 60°C
  - Teflon® (white), 30°C to 250°C
  - PTFE, 30°C to 250°C

- Major components:
  - Polysulfone (white), USP Class VI, ADFC
  - Polysulfone (purple tint), USP Class VI, ADFC
  - Polycarbonate (white), USP Class VI, ADFC
  - O-rings: Carbon, PTFE, FEP, Silicone, CTFE, Silicone (clear), platinum-cured, USP Class VI, ADFC

- Thumb Latches:
  - Polysulfone (white), USP Class VI, ADFC
  - Polycarbonate (white), USP Class VI, ADFC

- Locking sleeves:
  - Polysulfone (amber tint), USP Class VI, ADFC
  - Polycarbonate (purple tint), USP Class VI, ADFC

- O-rings:
  - Carbon (black), 30°C to 250°C
  - PTFE, 30°C to 250°C
  - FEP, 30°C to 250°C
  - Silicone (clear), 30°C to 350°C
  - Silicone (clear), platinum-cured, USP Class VI, ADFC

STERILIZATION:
- Gamma: Up to 50 kGy irradiation
- Autoclave: Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled
- Autoclave: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only

TUBING SIZES:
- 3/8” to 1/2” ID (9.5mm to 12.7mm)

MPX Series couplings add ease of use and security to your most critical fluid handling applications. Choose from a full line of connectors and configurations, including pressure sealing caps and plugs in sizes to fit 3/8” and 1/2” tubing. MPX couplings offer optional locking sleeves to further guard against accidental disconnects. In addition, coupling halves can be rotated when connected reducing tube kinks.

WARNING: Pressure, temperature, chemicals, and operating environments can affect the performance of the couplings. It is the customer’s responsibility to test the suitability of CPC’s products in their own application conditions.

Smart fluid handling to take you forward, faster.
Sanitary couplings attach directly to 3/4", 1" and 1-1/2" sanitary terminations to provide greater flexibility for integrating components into single-use or hybrid (single-use to stainless) process systems. Standard bag systems with quick couplings can be easily connected to equipment with sanitary terminations, while single-use cartridge filters can be converted to incorporate quick couplings for greater system modularity.

**Specifications**

**PRESSURE:**
Vacuum to 60 psi, 4.1 bar

**TEMPERATURE:**
-40°F to 300°F (-40°C to 149°C)

**MATERIALS:**
Main components: Polysulfone (amber tint), USP Class VI, ADCF
O-rings: Silicone (clear), platinum-cured, USP Class VI, ADCF

**STERILIZATION:**
Gamma: Up to 50 kGy irradiation
Autoclave: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

**TERMINATION SIZES:**
3/4", 1" and 1-1/2" sanitary

**Features**

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;, 1&quot; and 1-1/2&quot; sanitary terminations</td>
<td>Install to equipment with sanitary gaskets and sanitary clamps</td>
</tr>
<tr>
<td>Compatible with MPC and MPX Series couplings</td>
<td>Quick and easy connections to industry standard plastic couplings on single-use bags and tube sets</td>
</tr>
<tr>
<td>Integral coupling adaptor</td>
<td>Provides flexibility to easily convert sanitary terminations on filter cartridge or equipment</td>
</tr>
<tr>
<td>ADCF-free materials</td>
<td>Meet BSE/TSE requirements</td>
</tr>
</tbody>
</table>

**Note:** Mates with MPC and MPX Bodies, Inserts and sealing caps and plugs and Back-to-Back Adapters (pages 106-111).
CPC’s SaniQuik™ connection answers the question of how to integrate single-use components with your existing stainless processing equipment. This integral sanitary termination attaches to hard-plumbed systems with tri-clover clamps. Once attached it permits quick and easy connection to single-use bag systems, manifolds or tube sets with CPC disposable coupling bodies. SaniQuik connections reduce sanitary gasket replacement, enabling cost-effective media transfer solutions for feeding, harvesting or sampling applications.

**FEATURES**
- 3/4” and 1-1/2” sanitary standard terminations
- Compatible with MPC and MPX Series couplings
- Integral coupling adaptor
- ADCF-free materials

**BENEFITS**
- Connect to hard-plumbed systems with sanitary gaskets and sanitary clamps
- Quick and easy connections to industry standard plastic couplings on single-use bag and tube sets
- Disconnecting coupling reduces sanitary gasket replacement
- Meet BSE/TSE requirements

**Specifications**

**PRESSURE:**
Vacuum to 60 psi, 4.1 bar

**TEMPERATURE:**
-40°F to 300°F (-40°C to 149°C)

**MATERIALS:**
- Main component: 316L stainless steel
- O-rings: Silicone (clear), platinum-cured, USP Class VI, ADCF

**STERILIZATION:** Autoclave

**TERMINATION SIZES:**
- 3/4” and 1-1/2” sanitary

**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC’s products in their own application conditions.

**SANIQUIK™ SERIES CONNECTOR DIMENSIONS**

**Connections • 316L STAINLESS**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SILICONE SEAL</th>
<th>S A N I T A R Y</th>
<th>S A N I T A R Y</th>
<th>S A N I T A R Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUC222234SN</td>
<td>MPC Series 3/4”</td>
<td>3/4”</td>
<td>3/4”</td>
<td>3/4”</td>
</tr>
<tr>
<td>SUC222434KN</td>
<td>MPC Series 1-1/2”</td>
<td>1-1/2”</td>
<td>1-1/2”</td>
<td>1-1/2”</td>
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<tr>
<td>SUC221234SN</td>
<td>MPC Series 3/4”</td>
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<td>3/4”</td>
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<tr>
<td>SUC221434KN</td>
<td>MPC Series 1-1/2”</td>
<td>1”</td>
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<td>1”</td>
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</tbody>
</table>

**Accessories • SILICONE (CLEAR)**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>REPLACEMENT SEALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC101000</td>
<td>PC102000</td>
</tr>
</tbody>
</table>

**NOTES:**
- Mates with MPC and MPX bodies, inserts and sealing plugs and Back-to-Back Adapters (pages 106-111).

All measurements are in inches (millimeters) unless otherwise noted. Tolerances must meet stated inside and outside diameters.
MPU SERIES CONNECTOR

Features

- 3/4" hose barb
  - Facilitates rapid fill and empty of bioprocessing bags
- Locking feature
  - Guards against accidental disconnects
- Sharp barb end
  - Minimizes fluid turbulence and dead space
- Shrouded, leak-free seal & smooth, internal flow path
  - Protects valuable fluids and eliminates potential to contaminate fluid path
- ADCF-free materials
  - Meets BSE/TSE requirements

Benefits

- Facilitates rapid fill and empty of bioprocessing bags
- Guards against accidental disconnects
- Minimizes fluid turbulence and dead space
- Protects valuable fluids and eliminates potential to contaminate fluid path
- Meets BSE/TSE requirements

Specifications

Pressure:
Vacuum to 35 psi, 2.4 bar

Temperature:
-40°F to 300°F (-40°C to 149°C)

Materials:
Main components: Polysulfone (amber tint), USP Class VI, ADCF
O-rings: Silicone (clear), platinum-cured, USP Class VI, ADCF

Sterilization:
Gamma: Up to 50 kGy irradiation
Autoclave: Up to 270°F (132°C) for 60 minutes, up to 15 repetitions. Sterile uncoupled only.

Tubing Sizes:
3/4" ID (19.0 mm)

These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

MPU SERIES CONNECTOR DIMENSIONS

Coupling Bodies + POLYSULFONE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>3/4&quot; ID</td>
<td>19.0 mm ID</td>
<td>75°</td>
<td>MPU171239</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.25 (31.8)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.37 (60.2)</td>
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Coupling Inserts + POLYSULFONE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>3/4&quot; ID</td>
<td>19.0 mm ID</td>
<td>75°</td>
<td>MPU221239M</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.56 (39.6)</td>
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<td></td>
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<td>2.88 (73.2)</td>
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Accessories + POLYSULFONE

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SEALING CAP</th>
<th>SEALING PLUG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polysulfone USP Class VI</td>
<td>MPU13239</td>
<td>MPU103239M</td>
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<tr>
<td>Silicone Seal</td>
<td>1.75 (44.5)</td>
<td>1.56 (39.6)</td>
</tr>
<tr>
<td></td>
<td>.25 (6.4)</td>
<td>.38 (9.6)</td>
</tr>
</tbody>
</table>

All measurements are in inches (millimeters) unless otherwise noted. Tungsten insert hidden inside and not visible.
Specifications

PRESSURE:
Vacuum to 125 psi, 8.6 bar

TEMPERATURE:
-40°F to 280°F (-40°C to 138°C)

MATERIALS:
Main components: Polysulfone (amber tint), USP Class VI, ADCF
O-rings: Silicone (clear), platinum-cured, USP Class VI, ADCF
Springs: 316L stainless steel

STERILIZATION:
Gamma: Up to 50 kGy irradiation. Sterilize coupled or uncoupled.
Autoclave: Up to 270°F (132°C) for 60 minutes. Up to 25 repetitions for uncoupled units and up to one repetition for coupled units.

TERMINATION SIZES:
1/4”, 3/8” and 1/2” ID hose barb (6.4mm, 9.5mm and 12.7mm)

Features

BENEFITS

Simple one-step disconnection
Maintains media sterility in each half by preventing external organisms from entering into the media flow path upon disconnection. Automatic shutoff valves close off the flow path aseptically protecting valuable media while also eliminating the need for pinch clamps and tube welders. The easy-to-use thumb latch design provides a secure, leak-free connection and enables one-hand disconnects.

Automatic shutoff valves
Stop flow and eliminate need for pinch clamps

CPC Click
Audible confirmation of secure connection

Lightweight
Easy integration with single-use assemblies

ADCF-free materials
Meet BSE/TSE requirements

HFC39 Series sterile disconnect couplings prevent external organisms from entering into the media flow path upon disconnection. Automatic shutoff valves close off the flow path aseptically protecting valuable media while also eliminating the need for pinch clamps and tube welders. The easy-to-use thumb latch design provides a secure, leak-free connection and enables one-hand disconnects.

For validation reports, visit cpcworldwide.com/bio and for extractables data contact info@cpcworldwide.com

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted.
ASEPTIQUIK® S SERIES CONNECTORS

AseptiQuik® S Small Format 1/8" and 1/4" Connectors provide quick and easy sterile connections for small-flow applications, even in non-sterile environments. The “FLIP-CLICK-PULL” design of AseptiQuik S enables users to easily transfer small volumes of media with less risk of operator error. The connector’s genderless and robust design provides reliable performance without the need for clamps, fixtures or tube welders. Biopharmaceutical manufacturers can now make 1/8” and 1/4” sterile connections with the quality and market availability they expect from the leader in single-use connection technology.

Specifications

PRESSURE:
Up to 60 psi, 4.1 bar

TEMPERATURE:
39°F to 104°F (4°C to 40°C)

STERILIZATION:
Gamma: Up to 50kGy irradiation
AutoClave High Temp (HT) Version: Up to 266°F (130°C) for 60 minutes

TERMINATION SIZES:
1/8", 1/4" and 3/8" ID hose barb (3.2mm, 6.4mm and 9.5mm), 3/4" sanitary and MPC insert

MATERIALS:
Main Components:
Polycarbonate (white), USP Class VI, ADCF

Pull Tabs/Caps:
Polycarbonate (blue, standard version), USP Class VI, ADCF
Polycarbonate (white, HT version), USP Class VI, ADCF

Seals:
Silicone (clear), platinum-cured, USP Class VI, ADCF

Membrane:
Polyethylene (standard version), USP Class VI, ADCF
Hydrophobic polyethersulfone (HT version), USP Class VI, ADCF, PTFE strip sticker

FEATURES

Genderless design
Eases single-use systems specifications with one part number for both halves

FLIP-CLICK-PULL
Intuitive three-step connection process reduces risk of operator error

Integrated pull tab covers
Provide pre-assembly protection and ensure simultaneous removal of both membranes.

Robust construction
Repeatable and reliable performance with no additional hardware required

CPC Click
Audible confirmation of assembly

Features vs. Benefits

Genderless design

Eases single-use systems specifications with one part number for both halves

FLIP-CLICK-PULL

Intuitive three-step connection process reduces risk of operator error

Integrated pull tab covers

Provide pre-assembly protection and ensure simultaneous removal of both membranes.

Robust construction

Repeatable and reliable performance with no additional hardware required

CPC Click

Audible confirmation of assembly

For validation reports, visit cpcworldwide.com/bio and for extractables data, contact info@cpcworldwide.com

FLIP-CLICK-PULL Assembly Procedure

1. Unsnap and flip down the protective pull tab covers on each connector half.

2. Align the connector halves with the pull tabs hanging down. Slide the two halves together. Independently squeeze each side of the connector until you hear an audible “CPC Click.”

3. To complete the connection, simply snap the pull tabs together by pushing on the CPC logos and pull the membranes from the connector.
Genderless AseptiQuik® G Connectors enable quick and easy sterile connections, even in non-sterile environments. The easy-to-use genderless design simplifies system integration and minimizes the risk of operator error. The connectors’ robust construction provides enhanced user confidence and reliable performance without the need for clamps, fixtures or tube welders. Biopharmaceutical manufacturers benefit from a full range of interchangeable 1/4” to 3/4” flow solutions with the quality and market availability they expect from the leader in single-use connection technology.

**FEATURES**
- Genderless design
- Easy integration of single-use systems with one part number for both halves
- Robust construction: Repeatability and reliable performance with no additional hardware required
- FLIP-CHECK-PULL: Innovative three-step connection process reduces risk of operator error
- Integrated pull tab covers: Pull tabs act as protective cover reducing part complexity and ensure simultaneous removal of both membranes
- CPC Click: Audible confirmation of assembly

**BENEFITS**
- Eases integration of single-use systems with one part number for both halves
- Repeatability and reliable performance with no additional hardware required
- Innovative three-step connection process reduces risk of operator error
- Pull tabs act as protective cover reducing part complexity and ensure simultaneous removal of both membranes
- Audible confirmation of assembly

**Specifications**

**PRESSURE:**
- Up to 60 psi, 4.1 bar
- Up to 75 psi, 5.1 bar for 48 hours

**TEMPERATURE:**
- 34°F to 104°F (1°C to 40°C)

**STERILIZATION:**
- Gamma: Up to 50kGy irradiation
- Autoclave High Temp (HT) Version: Up to 264°F (130°C) for 60 minutes

**TERMINATION SIZES:**
- 1/4”, 3/8”, 1/2”, 3/4” ID hose barb (6.4mm, 9.5mm, 12.7mm, 19.0mm) and 3/4” sanitary

**MATERIALS:**
- Main Components: Polycarbonate (white), USP Class VI, ACF
- Pull Tabs/Caps: Polycarbonate (blue, standard version), USP Class VI, ACF
- Polycarbonate (white, HT version), USP Class VI, ACF
- Seals: Silicone (clear), platinum-cured, USP Class VI, ACF
- Needle: Polyethylene (standard version), USP Class VI, ACF
- Hydrophobic polyethersulfone (HT, version), USP Class VI, ACF, PTFE strip sticker

**ASEPTIQIK® G SERIES DIMENSIONS**

**FEATURES**
- FLIP-CLICK-PULL Assembly Procedure
1. Unsnap and flip down the protective pull tab covers on each connector half.
2. Align the connector halves with the pull tabs hanging down. Slide the two halves together. Independently squeeze each side of the connector until you hear an audible “CPC Click.”
3. To complete the connection, simply snap the pull tabs together by pushing on the CPC logos and pull the membranes from the connector.

**TERMINATION**
- 1/4” HOSE BARB
- 3/8” HOSE BARB
- 1/2” HOSE BARB
- 3/4” HOSE BARB
- 3/4” SANITARY

**PART NO.**
- AQG17004
- AQG17006
- AQG17008
- AQG17012
- AQG33012

**A S E P T I Q I K ® G S E R I E S C O N N E C T O R S**
ASEPTIQUIK® C SERIES CONNECTORS

AseptiQuik® C Connectors provide quick and easy sterile connections, even in non-sterile environments. AseptiQuik’s "CLICK-PULL-TWIST" design enables users to transfer media easily with less risk of operator error. The connector’s robust design provides reliable performance without the need for clamps, fixtures or tube welders. Biopharmaceutical manufacturers can make sterile connections with the quality and market availability they expect from the leader in single-use connection technology.

Specifications

PRESSURE:
Up to 60 psig, 4.1 bar

TEMPERATURE:
35°F to 104°F (4°C to 40°C)

TYPICAL FLOW RATE:
Cr = 14.4 max

STERILIZATION:
Gamma: Up to 50kGy irradiation
Autoclave High Temp (HT) Version:
Up to 250°F (120°C) for 30 minutes

TERMINATION SIZES:
3/8” (9.5mm) and 1/2” (12.7mm) ID hose barb, and 1/4” sanitary

FEATURES

CLICK-PULL-TWIST design
Intuitive three-step connection process reduces risk of operator error

Membrane pull tabs
Ensure simultaneous and secure removal of both membranes

Robust construction
Repeatability and reliable performance with no additional hardware required

Integrated lock ring
Secures final connection preventing disassembly

CPG Click
Audible confirmation of completed assembly steps

Market availability
Open access through multiple supply chain partners

BENEFITS

AseptiQuik Flow (1/2”)

This graph is intended to give you a general idea of the performance capabilities of each product line. The shaded area of the graph represents the normal operating range of the product family, i.e. upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

Materials

Main Components:
Polycarbonate (white), USP Class VI, ADCF
Lock Ring:
Polycarbonate, USP Class VI, ADCF
Pull Tabs:
Polycarbonate (blue, standard version), USP Class VI, ADCF
Polycarbonate (white, HT version), USP Class VI, ADCF
Cages:
Polypropylene (clear), USP Class VI, ADCF
Seals:
Silicone (clear), platinum-cured, USP Class VI, ADCF
Membrane:
Hydrophobic polyethersulfone (HT version), USP Class VI, ADCF
Pull Tabs:
Polycarbonate (blue), USP Class VI, ADCF
Caps:
Polycarbonate (white), USP Class VI, ADCF

MATERIALS:

Polycarbonate (white, HT version), USP Class VI, ADCF
Hydrophobic polyethersulfone (HT version), USP Class VI, ADCF

Termination:
3/8” (9.5mm) and 1/2” (12.7mm) ID hose barb, and 1/4” sanitary

TERMINATION SIZES:

3/8” (9.5mm) and 1/2” (12.7mm) ID hose barb, and 1/4” sanitary

Coupling Bodies

- **POLYCARBONATE** with Blue Pull Tabs
  - TERMINATION: 3/8” (9.5mm) and 1/2” (12.7mm) ID hose barb, and 1/4” sanitary
  - PART NO.: AQC33012
  - FLOW: 2.80 (71.1)
  - TYPICAL FLOW RATE: 2.80 (71.1)
  - PRESSURE: 2.80 (71.1)
  - PRESSURE: 2.80 (71.1)

- **POLYCARBONATE HT** with White Pull Tabs
  - TERMINATION: 3/8” (9.5mm) and 1/2” (12.7mm) ID hose barb, and 1/4” sanitary
  - PART NO.: AQC44012
  - FLOW: 2.80 (71.1)
  - TYPICAL FLOW RATE: 2.80 (71.1)
  - PRESSURE: 2.80 (71.1)

Coupling Inserts

- **POLYCARBONATE** with Blue Pull Tabs
  - TERMINATION: 3/8” (9.5mm) and 1/2” (12.7mm) ID hose barb, and 1/4” sanitary
  - PART NO.: AQC33012
  - FLOW: 2.80 (71.1)
  - TYPICAL FLOW RATE: 2.80 (71.1)
  - PRESSURE: 2.80 (71.1)

- **POLYCARBONATE HT** with White Pull Tabs
  - TERMINATION: 3/8” (9.5mm) and 1/2” (12.7mm) ID hose barb, and 1/4” sanitary
  - PART NO.: AQC44012
  - FLOW: 2.80 (71.1)
  - TYPICAL FLOW RATE: 2.80 (71.1)
  - PRESSURE: 2.80 (71.1)

CLICK-PULL-TWIST Assembly Procedure

1. Align male and female couplings, push together until “CPG Click” confirms secure alignment.
2. Slight rotation of lock ring may be required for proper alignment prior to connection.
3. Snap membrane pull tabs together and pull from connector.
4. Twist the blue lock ring clockwise until “CPC Click” and rib to arrow alignment confirms secure final connection.

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**AseptiQuik® DC Connectors**

The AseptiQuik® DC Connectors are the first all-in-one single-use connection technology to offer both a sterile connect and sterile disconnect. With the AseptiQuik DC Connector, manufacturers can make a quick and easy sterile connection and disconnection, even in non-sterile environments. AseptiQuik DC’s intuitive “CLICK-PULL-TWIST” design enables users to transfer media easily with less risk of operator error. After transfer is complete, the connector features a simple one-step disconnection that maintains media sterility by preventing external organisms from entering into the media flow path. The connector’s robust design and automatic shutoff valves provide reliable performance without the need for sanitary clamps, fixtures or tube welders.

**Specifications**

**PRESSURE:**
Up to 60 psi, 4.1 bar

**TEMPERATURE:**
39°F to 104°F (4°C to 40°C)

**STERILIZATION:**
Gamma: Up to 50kGy irradiation

**TERMINATION SIZES:**
1/4”, 3/8” and 1/2” ID hose barb (6.4mm, 9.5mm and 12.7mm)

**MATERIALS:**
- **Main Components:** Polycarbonate (white), USP Class VI, ADCF
- **Lock Ring:** Polycarbonate (blue), USP Class VI, ADCF
- **Pull Tabs:** Polycarbonate (blue, standard version), USP Class VI, ADCF
- **Caps:** Polypropylene (clear), USP Class VI, ADCF
- **Seals:** Silicone (clear), platinum-cured, USP Class VI, ADCF
- **Membrane:** Polyethylene (standard version), USP Class VI, ADCF
- **Springs:** 316L stainless steel

**Features**

**CLICK-PULL-TWIST design**
Intuitive three-step connection process reduces risk of operator error

**Simple one-step disconnection**
Maintains media sterility in each half by preventing external organisms from entering the flow path

**Membrane pull tabs**
Ensure simultaneous and secure removal of both membranes

**Robust construction**
Repeatably and reliable performance with no additional hardware required

**CPC Click**
Audible confirmation of completed assembly steps

**Market availability**
Open access through multiple supply chain partners

**Blot with standard AseptiQuik halves**
AQCDC inserts mate with standard ADC bodies

**AQCDC bodies mate with standard AQC inserts**

**CLICK-PULL-TWIST Assembly Procedure**

1. **Align male and female couplings, push together until audible “CPC Click” confirmation.**
2. **Snap membrane pull tabs together and pull from connector.**
3. **Twist the blue lock ring clockwise until “CPC Click” and rib to arrow alignment confirms final connection.**

When fluid transfer is finished, press the thumb latch down to complete the sterile disconnection. Both halves will remain sterile.

**To Disconnect**

Mates with standard AseptiQuik halves:
AQCDC inserts mate with standard ADC bodies

**AQCDC bodies mate with standard AQC inserts**

**AseptiQuik DC Flow**

**To Connect**

1. **Align male and female couplings, push together until audible “CPC Click” confirmation.**
2. **Snap membrane pull tabs together and pull from connector.**
3. **Twist the blue lock ring clockwise un‘til “CPC Click” and rib to arrow alignment confirms final connection.**

When fluid transfer is finished, press the thumb latch down to complete the sterile disconnection. Both halves will remain sterile.
AseptiQuik® X Large Format 1” Connectors provide quick and easy sterile connections for high-flow applications, even in non-sterile environments. AseptiQuik X’s “TWIST-PULL-TWIST” design enables users to quickly transfer large volumes of media easily with less risk of operator error. The connector’s robust design provides reliable performance without the need for clamps, fixtures or tube welders. Biopharmaceutical manufacturers can now make 1” sterile connections with the AseptiQuik® X series connectors technology.

**Features:**
- **TWIST-PULL-TWIST Design**: Intuitive three-step connection process reduces risk of operator error.
- **Membrane pull tabs**: Ensure simultaneous and secure removal of both membranes.
- **Robust construction**: Repeatable and reliable performance with no additional hardware required.
- **Integrated lock ring**: Secures final connection preventing disassembly.
- **CPC Click**: Audible confirmation of completed assembly steps.

**Benefits:**
- **Polyethylene (standard version)**, USP Class VI, ADCF
- **Silicone (clear)**, platinum-cured, USP Class VI, ADCF
- **Polypropylene (clear)**, USP Class VI, ADCF
- **Caps**: Polycarbonate (white, HT version), USP Class VI, ADCF
- **Lock Ring**: PVDF (white), USP Class VI, ADCF
- **Pull Tabs**: Polycarbonate (blue, standard version), USP Class VI, ADCF

**Specifications**

**PRESSURE:**
- Up to 60 psig, 4.1 bar

**TEMPERATURE:**
- 35°F to 104°F (4°C to 40°C)

**STERILIZATION:**
- Gamma, up to 50kGy irradiation
- Autoclave High Temp (HT) Version: Up to 266°F (130°C) for 30 minutes

**TERMINATION SIZES:**
- 1/4” and 1” ID hose barb (19.0mm and 25.4mm), 1-1/2” sanitary

**Materials:**
- **Main Components**: PVDF (white), USP Class VI, ADCF
- **Lock Ring**: PVDF (blue), USP Class VI, ADCF
- **Pull Tabs**: Polycarbonate (blue, standard version), USP Class VI, ADCF
- **Polyethylene (white, HT version)**, USP Class VI, ADCF
- **Caps**: Polycarbonate (white, HT version), USP Class VI, ADCF
- **Membrane**: Polyethylene (standard version), USP Class VI, ADCF
- **Hydrophobic polyethersulfone (HT version)**, USP Class VI, ADCF
- **Seals**: Silicone (clear), platinum-cured, USP Class VI, ADCF
- **Pull Tabs**: PVDF (blue), USP Class VI, ADCF
- **Lock Ring**: PVDF (white), USP Class VI, ADCF

**Termination Sizes**

**Coupling Bodies**
- **Polyethylene** with Blue Pull Tabs
  - **Termination**: 1/4” HOSE BIB, 1” HOSE BIB, 3/4” HOSE BIB
  - **Part No.**: AQX17012HT, AQX17016HT, AQX17024HT
  - **Dimensions**: 3.54, 4.04, 4.18

**Coupling Inserts**
- **Polyethylene** with Blue Pull Tabs
  - **Termination**: 1/4” HOSE BIB, 1” HOSE BIB, 3/4” HOSE BIB
  - **Part No.**: AQX17012HT, AQX17016HT, AQX17024HT
  - **Dimensions**: 3.54, 4.04, 4.18

**AseptiQuik X Flow**

**TWIST-PULL-TWIST Assembly Procedure**

1. **INSERT**
   - Align male and female connectors using the START alignment feature of the blue lock ring with the rib indicator of the white body. Insert the two halves together.

2. **Twist**
   - Twist the blue lock ring clockwise (approximately 75°) until audible “CPC Click” is heard. Alignment of the small blue lock ring rib indicator with the white body’s rib indicator confirms final rotation is complete.

3. **Snap**
   - Snap the membrane pull tabs together and pull from connector.

4. **Test**
   - Test the blue lock ring clockwise until the final audible “CPC Click” is heard (90°) from the initial starting point. Alignment of the long blue lock ring rib indicator with the white body’s rib indicator confirms initial rotation is complete.

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Steam-Thru Connections allow a quick and easy sterile connection between stainless steel biopharmaceutical processing equipment and disposable bag and tube assemblies. The single-use design saves time and money by eliminating unnecessary cleaning procedures and reducing validation burden associated with reusable components.

**FEATURES**
- Innovative three-port design
- Patented valve design
- Thumb latch/Tear-away sleeve
- 3/4" and 1-1/2" Terminations
- ADFC-free materials

**BENEFITS**
- Allows a true steam-through SIP process which eliminates “dead legs” and the need for laminar flow hoods
- Allows sterile connection and disconnection and permits high media flow rates
- Secures valve position, provides visual indicator of process stage
- Easily connects to process equipment
- Meet BSE/TSE requirements

**Specifications**

**PRESSURE:**
- Steamposition: Up to 35 psig, 2.4 bar (Steam-Thru) Up to 33 psig, 2.4 bar (Steam-Thru II)
- Flow position: Vacuum to 20 psig, 1.4 bar

**TEMPERATURE:**
- Steamposition: Up to 205°C (390°F) for 60 minutes (Steam-Thru) Up to 275°F (135°C) for 60 minutes (Steam-Thru II)
- Flow position: 39°F to 104°F (4°C to 40°C)

**MATERIALS:**
- Connection: Polysulfone (amber tint), USP Class VI, ADFC
- O-rings: Silicone (clear), platinum-cured, USP Class VI, ADFC
- Tear-away sleeve: Polycarbonate, USP Class VI

**TYPICAL FLOW RATE:**
- CV = 4.2 - 4.6 (Steam-Thru) CV = 5.2 - 8.0 (Steam-Thru II)

**STERILIZATION:**
- Gamma: Up to 50 kGy irradiation
- Autoclave: Up to 275°F (135°C) for 60 minutes, up to two cycles

**TERMINATION SIZES:**
- Up to 270°F (130°C) for 60 minutes (Steam-Thru II)
- Up to 265°F (129°C) for 60 minutes, up to two cycles

**STEAM-THRU® SERIES CONNECTIONS**

**Steam-Thru® Configurations**
Steam-Thru Connector’s patented three-port design allows steam to pass directly through the lower ports to “steam on” to stainless equipment. After the SIP cycle is completed, the connector’s valve is actuated, creating a sterile flow path to single-use systems.

**Steam-Thru II Configurations**
Steam-Thru II Connections offer the flexibility of “steam on” and “steam off” functionality. The innovative design allows the valve to be returned to the steam position enabling a second SIP cycle following media transfer. The “steam off” disconnection of single-use systems minimizes cross-contamination risks associated with reusable components.

**COUPLING BODIES**

**POLYSULFONE**

**PART NO.**

**TERMINATIONS**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TERMINATIONS</th>
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<td>STC202000</td>
<td>3/4&quot; x 3/4&quot; sanitary x 1/2&quot; HB</td>
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**POLYESTER**

**PART NO.**

**TERMINATIONS**

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**POLYETHYLENE**

**PART NO.**

**TERMINATIONS**

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**All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.**
AseptiQuik® STC Connectors integrate the AseptiQuik® sterile connector and the Steam-Thru II SIP connector, giving manufacturers even greater flexibility for hybrid stainless steel and single-use processing. The AseptiQuik STC connector combines either an AseptiQuik G or AseptiQuik C sterile connector with a Steam-Thru II connection that can be mounted directly to a stainless steel vessel via a sanitary termination. AseptiQuik STC connectors utilizing an AseptiQuik G sterile connector offer a genderless design, simplifying system integration at the aseptic connector end. AseptiQuik STC connectors utilizing an AseptiQuik C sterile connector allow system designers to incorporate a keyed female-to-male connection at the aseptic connector end.

The union of the two connectors into a single unit through a sanitary clamp allows an AsepticQuik sterile connection to be steamed on to stainless equipment via SIP. After the SIP cycle, a wide range of single-use systems can be connected. The SIP process can reduce risk of operator error.

AseptiQuik® STC SERIES CONNECTOR

FEATURES

- AseptiQuik design: Innovative three-step connection process reduces risk of operator error.
- Genderless design: Eases integration of single-use systems with universal mating between AseptiQuik G Connectors.
- Innovative three-port steam design: Allows a true steam-through SIP process which eliminates “dead legs.”
- Robust construction: Repeatable and reliable performance with no additional hardware required.
- Patented steam valve design: Allows sterile connection and disconnection to stainless equipment and permits a high media flow rate.
- Sanitary interface between the two connectors: More secure connection than tubing with cable ties.
- CPC Click: Audible confirmation of assembly steps.
- Market availability: Open access through multiple supply chain partners.

BENEFITS

- Ease of connection: No additional hardware required.
- Genderless design: Eases integration of single-use systems.
- Innovative steam design: Allows true steam-through SIP process.
- Robust construction: Repeatable and reliable performance.
- Patented steam valve design: Allows dry conneciton and disconnection to stainless equipment.
- Sanitary interface: More secure connection than tubing with cable ties.
- CPC click: Audible confirmation of assembly steps.
- Market availability: Open access through multiple supply chain partners.

AseptiQuik® STC SERIES DIMENSIONS

- **TERMINATION WITH ASEPTIQUIK BODY (PICTURED)**
  - **3/4" X 1-1/2" SANITARY STEAM-THRU II**
  - **PART NO. AQGSTC2331000**
    - **N**
    - **8.26 (210 mm)**
    - **9.25 (235 mm)**
    - **9.42 (240 mm)**
  - **PART NO. AQGSTC2331000HT**
    - **N**
    - **8.26 (210 mm)**
    - **9.25 (235 mm)**
    - **9.42 (240 mm)**

- **TERMINATION WITH GENDERLESS ASEPTIQUIK G BODY**
  - **3/4" X 1-1/2" SANITARY STEAM-THRU II**
  - **PART NO. AQGSTC2330900**
    - **N**
    - **8.26 (210 mm)**
    - **9.25 (235 mm)**
    - **9.42 (240 mm)**
  - **PART NO. AQGSTC2330900HT**
    - **N**
    - **8.26 (210 mm)**
    - **9.25 (235 mm)**
    - **9.42 (240 mm)**

AseptiQuik® G STC SERIES DIMENSIONS

- **TERMINATION WITH ASEPTIQUIK BODY (PICTURED)**
  - **3/4" X 1-1/2" SANITARY STEAM-THRU II WITH GENDERLESS ASEPTIQUIK G BODY**
  - **PART NO. AQSTC2331000**
    - **N**
    - **8.42 (213 mm)**
    - **7.36**
  - **PART NO. AQSTC2331000HT**
    - **N**
    - **8.42 (213 mm)**
    - **7.36**

- **TERMINATION WITH GENDERLESS ASEPTIQUIK G BODY**
  - **3/4" X 1-1/2" SANITARY STEAM-THRU II WITH GENDERLESS ASEPTIQUIK G BODY**
  - **PART NO. AQSTC2330900**
    - **N**
    - **8.42 (213 mm)**
    - **7.36**
  - **PART NO. AQSTC2330900HT**
    - **N**
    - **8.42 (213 mm)**
    - **7.36**

Note: Mates with gendered and genderless AseptiQuik connectors.
APEXIQU® STC SERIES ASSEMBLY PROCEDURE

CLICK-PULL-TWIST Assembly Procedure

1. Steam flows from the process equipment through the Steam-Thru II in a steam trap creating a “steam on” sterile connection.

2. Align AseptiQuik male and female couplings, push together until “CPC Click” confirmation. Slight rotation of blue lock ring may be required for proper alignment prior to connection.

3. Snap membrane pull tabs together and pull from connector.

4. Once the AseptiQuik assembly is complete and the steam trap has been closed, simply press the thumb latch to allow the valve to be pushed into the flow position. The “CPC Click” confirms the transition is complete.

5. After sterile media transfer is complete, simply press the thumb latch and pull the valve back into the steam position. The “CPC Click” confirms the transition is complete.

6. With the valve locked securely into the steam position, complete a second SIP cycle to “steam off” the connection.

APEXIQU® G STC SERIES ASSEMBLY PROCEDURE

FLIP-CCLICK-PULL Assembly Procedure

1. Steam flows from the process equipment through the Steam-Thru II in a steam trap creating a “steam on” sterile connection.

2. Unsnap and flip down the protective pull tab covers on each genderless AseptiQuik G connector half.

3. Align genderless AseptiQuik G couplings, push together until “CPC Click” confirmation.

4. Pull the snapped-together membrane pull tabs from the connector. Remove the Steam-Thru II lock sleeve.

5. Once the genderless AseptiQuik G assembly is complete and the steam trap has been closed, simply press the thumb latch to allow the valve to be pushed into the flow position. The “CPC Click” confirms the transition is complete.

6. After sterile media transfer is complete, simply press the thumb latch and pull the valve back into the steam position. The “CPC Click” confirms the transition is complete.

7. With the valve locked securely into the steam position, complete a second SIP cycle to “steam off” the connection.
CPC is the leading provider of quick disconnect couplings and fittings for chemical handling and chemical packaging. Used in a broad range of applications, innovative coupling and connection technologies from CPC allow flexible tubing to be quickly connected and disconnected. CPC makes people’s lives better by developing innovative high quality products that make fluid handling safe and easy.

CPC’s wide range of chemically resistant quick disconnect couplings and DrumQuik® closed chemical dispensing systems provide non-spill operation and improve employee and environmental safety in chemical management environments. Applications include water treatment, janitorial and sanitation, Diesel Exhaust Fluid (DEF) dispensing, semiconductor and pharmaceutical manufacturing as well as pump, filter and de-ionized water connections.

DrumQuik PRO systems create a closed transfer system for general chemicals. Rugged and cost-effective, DrumQuik dispensing systems minimize chemical exposure and facilitate the delivery of chemicals from bulk transfer containers to end use applications. For high purity applications, DrumQuik PUR provides the assurance of chemical compatibility and cleanroom assembly for contamination prevention.
**CQH/CQV SERIES CONNECTOR**

The CQH and CQV Series are designed for high-purity use and feature all plastic construction. Molded, virgin materials and lubricant-free design enable use in the most demanding applications. Broad chemical compatibility and cleanroom manufacturing make them ideal for use in critical wet processes.

### FEATURES
- 100% metal free
- No risk of metal contaminants or corrosion
- High flow valve design
- High flow in a compact package
- Disconnect under pressure
- Speeds servicing and reduces risk of injury
- Polypropylene and PVDF
- Polypropylene and PVDF
- Broad chemical compatibility

### BENEFITS
- High flow in a compact package
- Disconnect under pressure
- Speeds servicing and reduces risk of injury
- Polypropylene and PVDF
- Polypropylene and PVDF
- Broad chemical compatibility

### SPECIFICATIONS

**CQH PRESSURE:**
- 0 – 80 psig (0 – 5.5 bar)

**CQH TEMPERATURE:**
- 32°F to 250°F (0°C to 121°C)

**CQH MATERIALS:**
- Main components: Natural, virgin polypropylene
- Valve o-rings: FFKM (black)
- Valve (wetted) and thumb latch spring: PEEK
- Flare nuts: PVDF
- Lubricants: None used

**CQV PRESSURE:**
- 0 – 80 psig (0 – 5.5 bar)

**CQV TEMPERATURE:**
- 0°F to 225°F (–18°C to 107°C)

**CQV MATERIALS:**
- Main components: Natural, virgin PVDF
- Valve o-rings: Chemrez FFPM perfluoro (white)
- Valve (wetted) and thumb latch spring: PEEK
- Flare nuts: PVDF
- Lubricants: None used

### BENEFITS

**SPILLAGE/AIR INCLUSION:**
- ~1.5 cc (full-disconnect/insertion)

**TUBING SIZES:**
- 1/4" to 1/2" flare; 3/8" to 3/4" NPT

### NOTES:
- CQH & CQV are also available with optional PVDF springs and Chemrez FFPM or EPDM seals.

### CQH/CQV SERIES CONNECTOR DIMENSIONS

**CQH Coupling Bodies**

**CQH Coupling Inserts**

**CQV Coupling Bodies**

**CQV Coupling Inserts**

See page 141 for Chem-Duo Dual Containment Nut options.

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All measurements are in inches (millimeters) unless otherwise noted. Tubing insert and bellows inside and outside diameters.
The CQG06 Series high purity couplings feature our patented pressure-balanced, non-spill design. Molded virgin polypropylene and a 100% springless flow path provide broad chemical resistance and exceptionally high flow capacity, allowing instant disconnects (and reconnects), even under pressure.

**FEATURES**

- Non-spill design
- Ultimate protection from chemicals and fumes
- Pressure-balanced
- Fail-safe disconnect, even under pressure; easy to reconnect at high pressure
- Springless flow path design
- Eliminates source of metallic contaminants

**BENEFITS**

- Ultimate protection from chemicals and fumes
- Non-spill design
- Pressure-balanced
- Fail-safe disconnect, even under pressure; easy to reconnect at high pressure
- Springless flow path design
- Eliminates source of metallic contaminants

**Specifications**

- **PRESSURE:**
  - 0 - 80 psi (0 - 5.5 bar)
- **TEMPERATURE:**
  - 32°F to 150°F (0°C to 66°C)
- **MATERIALS:**
  - Main components:
    - Natural, virgin polypropylene
    - Seals: FKM (Clinton® FKM optional)
  - Flare nuts: PVDF
  - Lubricants: None used
  - Dual Containment Nut and Panel Mount Fitting:
    - Virgin, natural polypropylene
  - Flare nuts: PVDF
  - Panel nuts: HDPE
  - Panel mount o-rings: FKM
- **SPILLAGE/AIR INCLUSION:**
  - <0.1 cc (ml)/disconnect (reconnect)
- **TUBING SIZES:**
  - 3/8” to 1/2” flare; 3/8” to 3/4” NPT
- **TERMINATION TYPES:**
  - Flare compression
  - Panel Mount Compression

**PRESSURE BALANCED**

- **SPILLAGE/AIR INCLUSION:**
  - <0.1 cc/ml disconnect (reconnect)
- **PRESSURE:**
  - 0 - 80 psig (0 - 5.5 bar)
- **TEMPERATURE:**
  - 32°F to 150°F (0°C to 66°C)
- **MATERIALS:**
  - Main components:
    - Natural, virgin polypropylene
    - Seals: FKM (Clinton® FKM optional)
  - Flare nuts: PVDF
  - Lubricants: None used
  - Dual Containment Nut and Panel Mount Fitting:
    - Virgin, natural polypropylene
  - Flare nuts: PVDF
  - Panel nuts: HDPE
  - Panel mount o-rings: FKM
- **SPILLAGE/AIR INCLUSION:**
  - <0.1 cc (ml)/disconnect (reconnect)
- **TUBING SIZES:**
  - 3/8” to 1/2” flare; 3/8” to 3/4” NPT
- **TERMINATION TYPES:**
  - Flare compression
  - Panel Mount Compression

**BENEFITS**

- Ultimate protection from chemicals and fumes
- Non-spill design
- Pressure-balanced
- Fail-safe disconnect, even under pressure; easy to reconnect at high pressure
- Springless flow path design
- Eliminates source of metallic contaminants

**WARNING**

- Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

**Specifications**

- **PRESSURE:**
  - 0 - 80 psig (0 - 5.5 bar)
- **TEMPERATURE:**
  - 32°F to 150°F (0°C to 66°C)
- **MATERIALS:**
  - Panel Mount o-rings: FKM (Simriz® FFKM optional)
  - Flare nuts: PVDF
  - Springs (non-wetted): Hastelloy® C
  - Seals: FKM

**Panel Mount Adapter**

- **POLYETHYLENE**

**ChemQuik® Dual Containment Flare Nuts**

The ChemQuik® Dual Containment System is an easy way to “double contain” critical chemical lines, protecting plant and personnel in case a primary process line ruptures or “sweats.” The system provides a protective secondary line to catch any fluid and routes it to a safe location.

These fittings work with any ChemQuik coupling with fine thread flare terminations or a common flare style fitting. In addition, the panel mount version can be mounted into a pump cabinet or other panel mount connection point. The primary line can then be routed from the coupling directly to a pump, connected to a ChemQuik coupling at the panel mount fitting. The “weep port” serves to vent the area between the primary and secondary lines so that pressure cannot build up in case of a primary line rupture. The leaking fluid can then be routed to a containment vessel or to a leak detector.

- **Description:**
  - Panel mount adapter kit (fits both bodies & inserts)
- **Part No.:** CQGMNMT01

**Coupling Bodies**

**Polypropylene**

**Coupling Inserts**

**Polypropylene**

**Coupling Bodies**

**Polypropylene**

**Coupling Inserts**

**Polypropylene**

**Panel Mount Adapter**

**Polyethylene**

All measurements are in inches (millimeters) unless otherwise noted. Tolerances must meet standard industry standards.
DrumQuik® PRO and DrumQuik PUR dispensing systems are used with common pumps to create a closed transfer system for both general and high purity chemicals. These easy-to-use products meet the strict safety requirements of chemical handling applications as well as the demands of harsh operating environments. DrumQuik dispensing systems minimize chemical exposure and facilitate the delivery of chemicals from bulk transfer containers to end use applications.

For general chemical dispensing, DrumQuik PRO offers a rugged and cost-effective solution. DrumQuik PUR is a 100% metal-free, cleanroom packaged, PVDF product designed specifically for applications demanding the highest level of purity. All materials are compliant with FDA standards for food and consumables applications.

### Specifications

**PRESSURE:**
- Uncoupled: Vacuum to 45 psig, 3.1 bar
- Coupled: Vacuum to drum rating

**TEMPERATURE:**
- Drum insert: -20°F to 120°F (-20°C to 49°C)
- Coupler: HDPE, 32°F to 120°F (0°C to 49°C)
  - PVDF, 0°F to 120°F (-18°C to 49°C)

**MATERIALS:**
- Drum insert & dip-tube: Virgin polyethylene (HDPE)
- Shipping plug: Virgin polyethylene (HDPE)
- Coupler: Virgin polypropylene (DrumQuik PRO)
  - Virgin PVDF (DrumQuik PUR)
- Spring (coupler only): 316 stainless steel, Hastelloy® C, virgin PEEK
  - UHP, PPS or PTFE encapsulated 316 stainless steel (TESS)
- Seals:
  - Coupler seals: EPDM, FKM, Simriz® UHP
  - FFKM Perfluoroelastomer
- Bung seal: Polyolefin, EPDM, FKM
- Shipping plug seal: EPDM, FKM

**Torque specifications:**
- 2” Buttress - 20ft-lbs (27 N-m)
- BCS 56x4 - 20ft-lbs (27 N-m)
- BCS 70mm - 22ft-lbs (30 N-m)
- 2” NPS (plastic drum) - 20ft-lbs (27 N-m)
- 2” NPS (steel drum) - 15ft-lbs (20 N-m)
- Shipping plug - 15inch-lbs (1.7 N-m)

**NOTE:** The torque specifications listed above are general recommendations which may need to be adjusted + or – depending on specific application.

## DrumQuik PRO and DrumQuik PUR

DrumQuik PRO and DrumQuik PUR are changing the world of chemical management with their unique closed-system design. Innovative DrumQuik systems help companies reduce costs, increase worker safety and protect the environment. From basic chemical handling to specialty high purity and pharmaceutical applications, DrumQuik dispensing systems make chemical management cleaner, faster, safer and smarter.

### DrumQuik PRO

- **FEATURES:**
  - Quick connect/disconnect
  - Automatic shut-off valve
  - Disposable drum insert
  - Ported vent system for vapor management
  - Multiple thread sizes

- **BENEFITS:**
  - Allows faster drum change-outs
  - Stops flow when disconnected
  - Reduces messy handling and chemical exposure
  - Allows make-up air into drum or connection of blanket gas (N2, CO2)
  - Can be used with many common steel and plastic containers

### DrumQuik PUR

- **FEATURES:**
  - Quick connect/disconnect
  - All plastic construction
  - Automatic shut-off valve
  - Cleanroom manufactured
  - Disposable drum insert

- **BENEFITS:**
  - Allows faster drum change-outs
  - No metallic corrosion/contamination
  - Stops flow when disconnected
  - Assures high level of purity
  - Minimizes chemical exposure & contamination

**PATENTED**
Couplers • POLYPROPYLENE

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQPRO20G2NPSPL</td>
<td>20G2NPS thread, FKM seals (no. Am. Plastic drums)</td>
</tr>
<tr>
<td>DQPRO20G2NPSST202</td>
<td>20G2NPS thread, FKM seals (steel drums and IBC caps)</td>
</tr>
<tr>
<td>DQPRO20G2NPSST201</td>
<td>20G2NPS thread, FKM flat bung seal (plastic drums and IBC caps)</td>
</tr>
<tr>
<td>DQPRO20G2NPSST200</td>
<td>20G2NPS thread, FKM flat bung seal (plastic drums and IBC caps)</td>
</tr>
</tbody>
</table>

Drum Inserts • POLYETHYLENE (HDPE)

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQPURDT1070</td>
<td>1070mm long (from sealings surface)</td>
</tr>
<tr>
<td>DQPURDT1080</td>
<td>1080mm long (from sealings surface)</td>
</tr>
</tbody>
</table>

Dip-Tubes • POLYETHYLENE (HDPE)

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQPROBUT4000</td>
<td>4000mm long for 330 gal/1250L drums</td>
</tr>
<tr>
<td>DQPROBUT4001</td>
<td>4000mm long for 275 gal/1040L drums</td>
</tr>
</tbody>
</table>

Assembled Drum Inserts & Dip-Tubes

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQPROBT3705</td>
<td>3705mm long (from sealings surface)</td>
</tr>
<tr>
<td>DQPROBT3725</td>
<td>3725mm long (from sealings surface)</td>
</tr>
</tbody>
</table>

VAPOR MANAGEMENT OPTIONS:

1. OPEN: Vent port left open to atmosphere.
2. REMOTE: Vent port routed to fume hood, scrubber or vapor recovery system.
3. CHECKED: Connect vent check valve to allow make-up air in without allowing fumes to escape.
4. BLANKET GAS: Connect a CPC quick disconnect coupling for blanket gas (N2, CO2).
5. FILTERED: Connect vent filter.

**Color Coding and Keying Options**

- **COLORED KEY KITS FOR PHYSICAL CODING: POLYETHYLENE**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQPURKEYDILBLK99</td>
<td>Key kit for drum insert, black</td>
</tr>
<tr>
<td>DQPURKEYCPLBLK99</td>
<td>Key kit for coupler, black</td>
</tr>
<tr>
<td>DQPURKEYCPLRED01</td>
<td>Key kit for coupler, red</td>
</tr>
<tr>
<td>DQPURKEYCPLGRN03</td>
<td>Key kit for coupler, green</td>
</tr>
<tr>
<td>DQPURKEYCPLYEL02</td>
<td>Key kit for coupler, yellow</td>
</tr>
<tr>
<td>DQPURKEYCPRED01</td>
<td>Key kit for coupler, red</td>
</tr>
<tr>
<td>DQPURKEYCPGRN03</td>
<td>Key kit for coupler, green</td>
</tr>
<tr>
<td>DQPURKEYCPYEL02</td>
<td>Key kit for coupler, yellow</td>
</tr>
</tbody>
</table>

**Color Coded Parts**

- **COLORED CAPS & BUTTON PLUGS FOR VISUAL CODING: POLYETHYLENE**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQPURPLUGCOMBO</td>
<td>One each of every color plug</td>
</tr>
<tr>
<td>DQPURPLUGBLU05</td>
<td>Colored plug for drum insert, blue</td>
</tr>
<tr>
<td>DQPURPLUGBRN04</td>
<td>Colored plug for drum insert, brown</td>
</tr>
<tr>
<td>DQPURPLUGRED01</td>
<td>Colored plug for drum insert, red</td>
</tr>
<tr>
<td>DQPURPLUGGRN03</td>
<td>Colored plug for drum insert, green</td>
</tr>
<tr>
<td>DQPURPLUGYEL02</td>
<td>Colored plug for drum insert, yellow</td>
</tr>
</tbody>
</table>

**Color Coding**

- **DrumQuik® PRO & PUR Key Kits**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQPURKEYDIBLK99</td>
<td>Key kit for drum insert, black</td>
</tr>
<tr>
<td>DQPURKEYCPBLK99</td>
<td>Key kit for coupler, black</td>
</tr>
<tr>
<td>DQPURKEYCPBLU05</td>
<td>Key kit for coupler, blue</td>
</tr>
<tr>
<td>DQPURKEYCPBRN04</td>
<td>Key kit for coupler, brown</td>
</tr>
<tr>
<td>DQPURKEYCPGRN03</td>
<td>Key kit for coupler, green</td>
</tr>
<tr>
<td>DQPURKEYCPYEL02</td>
<td>Key kit for coupler, yellow</td>
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<tr>
<td>DQPURKEYCPRED01</td>
<td>Key kit for coupler, red</td>
</tr>
<tr>
<td>DQPURKEYCPGRY00</td>
<td>Key kit for coupler, gray</td>
</tr>
</tbody>
</table>

**Dispensing Connector System**

- **Coupler Key Ring**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQPROKEYDICOMBO</td>
<td>Key kit for drum insert, black</td>
</tr>
<tr>
<td>DQPROKEYDIBRN04</td>
<td>Key kit for drum insert, brown</td>
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<tr>
<td>DQPROKEYDICOMBO</td>
<td>Key kit for drum insert, brown</td>
</tr>
<tr>
<td>DQPROKEYCPCOMBO</td>
<td>Key kit for coupler, black</td>
</tr>
<tr>
<td>DQPROKEYCPBLK99</td>
<td>Key kit for coupler, black</td>
</tr>
<tr>
<td>DQPROKEYCPBLU05</td>
<td>Key kit for coupler, blue</td>
</tr>
<tr>
<td>DQPROKEYCPBRN04</td>
<td>Key kit for coupler, brown</td>
</tr>
<tr>
<td>DQPROKEYCPGRN03</td>
<td>Key kit for coupler, green</td>
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<tr>
<td>DQPROKEYCPYEL02</td>
<td>Key kit for coupler, yellow</td>
</tr>
<tr>
<td>DQPROKEYCPGRY00</td>
<td>Key kit for coupler, gray</td>
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</tbody>
</table>

**Shipping Plug**

- **Color Coded**

<table>
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<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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</thead>
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<tr>
<td>DQPURPLUGCOMBO</td>
<td>One each of every color plug</td>
</tr>
<tr>
<td>DQPURPLUGBLU05</td>
<td>Colored plug for drum insert, blue</td>
</tr>
<tr>
<td>DQPURPLUGBRN04</td>
<td>Colored plug for drum insert, brown</td>
</tr>
<tr>
<td>DQPURPLUGRED01</td>
<td>Colored plug for drum insert, red</td>
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<tr>
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<td>Colored plug for drum insert, green</td>
</tr>
<tr>
<td>DQPURPLUGYEL02</td>
<td>Colored plug for drum insert, yellow</td>
</tr>
</tbody>
</table>

**Colored Caps for Coupler**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>DQPURCAPCOMBO</td>
<td>One each of every color cap</td>
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<tr>
<td>DQPURCAPBLU05</td>
<td>Colored cap for coupler, blue</td>
</tr>
<tr>
<td>DQPURCAPBRN04</td>
<td>Colored cap for coupler, brown</td>
</tr>
<tr>
<td>DQPURCAPRED01</td>
<td>Colored cap for coupler, red</td>
</tr>
<tr>
<td>DQPURCAPGRN03</td>
<td>Colored cap for coupler, green</td>
</tr>
<tr>
<td>DQPURCAPYEL02</td>
<td>Colored cap for coupler, yellow</td>
</tr>
<tr>
<td>DQPURCAPGRY00</td>
<td>Colored cap for coupler, gray</td>
</tr>
</tbody>
</table>

**DrumQuik® PRO / DRUMQUIK PUR ACCESSORIES**

- **Color Code**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQPURKEYCPCOMBO</td>
<td>Key kit for coupler, black</td>
</tr>
<tr>
<td>DQPURKEYCPBLK99</td>
<td>Key kit for coupler, black</td>
</tr>
<tr>
<td>DQPURKEYCPBLU05</td>
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</tr>
<tr>
<td>DQPURKEYCPRED01</td>
<td>Key kit for coupler, red</td>
</tr>
<tr>
<td>DQPURKEYCPGRY00</td>
<td>Key kit for coupler, gray</td>
</tr>
</tbody>
</table>
**Tools**

- **Torque Socket Tool (Bright yellow)**
- **Key Installation Tool**
- **Shipping Plug**
- **Coupler Liquid Port Fittings**
- **Backflow Check and Foot Valves**

**Sample Kits** (Includes one coupler, one insert and one dip-tube)

- **DQPURSAMP202**
- **DQPROTETHER**

**Sample Kits** (Includes one coupler, one insert and one dip-tube)

- **DQPURDCN0812**
- **DQPURDCPM1216**
- **DQPURSE1212**
- **DQPUR SE0808**
- **DQPUR MC0804**
- **DQPUR MC0404**

**Shipping Plugs**

- **DQPURVH960**
- **DQPURLF900**
- **DQPURCP900**
- **DQPURCP910**

**Sample Kits** (Includes one coupler, one insert and one dip-tube)

- **DQPURF904**
- **DQPURF905**
- **DQPURF906**
- **DQPURF907**

**Sample Kits** (Includes one coupler, one insert and one dip-tube)

- **DQPURB906**
- **DQPURB907**
- **DQPURB908**
- **DQPURB909**

**Accessories**

- **Tether/Dust Cap** for use with DrumQuik PRO shipping plugs and couplers (FPC, Vinyl)

**Coupler Vent Port Options**

- **DQPURSAMP202**
- **DQPROTETHER**

**Backflow Prevention Options**

- **EFCD17612**
- **EFCD17412**
- **EFCD24412**

**COUPLER VENT PORT OPTIONS**

- **DQPURVH960**
- **DQPURLF900**
- **DQPURCP900**
- **DQPURCP910**

**Shipping Plug**

- **DQPURVH960**
- **DQPURLF900**
- **DQPURCP900**
- **DQPURCP910**

**Turn shipping plug counterclockwise to remove. (Use a large, flat blade or 44 Phillips screwdriver.)**

**Insert coupler into drum insert assembly.**

**Turn the coupler locking ring clockwise until stop is reached (approximately 2 full turns), value is opened during this process.**

**Fully press dip-tube into drum insert socket.**

**Place the drum insert assembly in drum.**

**Insert coupler into drum insert assembly.**
**DRUMQUIK PRO / DRUMQUIK PUR ACCESSORIES**

**DrumQuik® 3-Port UDA Kit • POLYPROPYLENE**

The 3-Port UDA features a 3/4" male NPT thread that mates with common containers, bung plugs and caps. The adaptor ports enable simultaneous chemical extraction, venting or application of blanket gas. In addition, the third port can be used to recirculate flushing chemical to the container or on the pump cell. Optional system components including bolt valves, air filters and vent check valves are also available. For your convenience, CPC offers a variety of drum adaptor plugs to facilitate easy drum connections. (See plugs and caps on page 149.)

**Universal Drum Adaptor Kit**

(Shown with HFC12 and NS4)

**PART NUMBER**

**DESCRIPTION**

DQU3PAK  Kit

3-port adaptor, EPDM seal, locking nut, 3 3/4" (95mm) dip-tube, 1/2" x 3/8" & 1/2" x 1/4" reducer bushings and 1/2" & 3/8" NPT plugs.

DQU3PAK7232  Kit

3-port adaptor, FKM seal, locking nut, 2 3/4" (65mm) dip-tube, 1/2" x 1/4" & 1/2" x 1/4" reducer bushings and 1/2" & 3/8" NPT plugs.

DQU3PK  Kit

3-port adaptor bulk packaged (1/2" female NPT liquid outlet port, 3/8" & 1/4" NPT and two removable ports)

DQU3PKH  Locking nut for the 3-port adaptor

273560  EPDM seal for the 3-port adaptor

273530  FKM seal for the 3-port adaptor

262100  Reducer bushing, black polypropylene, 1/2" male NPT x 1/4" female NPT

262100  Reducer bushing, black polypropylene, 1/2" male NPT x 3/8" female NPT

262100  Pin plug, black polypropylene, 1/4" male NPT

262100  Pin plug, black polypropylene, 3/8" male NPT

Use with PLC, Non-Spill, EFC and ChemQuik Series couplings.

**Note:** ChemQuik UDA 3-Port uses DrumQuik PRO dip-tubes and accessories.

**DrumQuik UDA Kit • POLYPROPYLENE**

The DrumQuik® UDA Kit turns ChemQuik® or general purpose (HFC or NSH) couplings into a dip-tube that can easily be threaded into the 3/4" female NPS port of common drum closures. It provides a simple and inexpensive way to dispense chemicals in pumped systems. For your convenience, CPC offers a variety of drum adaptor plugs to facilitate easy drum connections. (See plugs and caps on page 149.)

**PART NUMBER**

**DESCRIPTION**

DQUADAPI  Animation of DQUADAPIT127x4 4" long dip-tube

DQUADAPI72  Animation of DQUADAPIT127x4 4" long dip-tube

**BottleQuik® 2-Port Kit UDA • POLYPROPYLENE**

The BottleQuik® is intended for use on reagent bottles with 38mm threads. It can be used in either the upright position or inverted and has two 3/8" female NPT ports for liquid and vent ports.

**PART NUMBER**

**DESCRIPTION**

DQUI2PAKPF  2-Port adaptor CAP for 38mm SP400 bottles & dip-tubes, 1 7/8" (43mm) long, FKM o-rings, 3/8" female NPT liquid port, 3/8" female NPT vent port, 3/8" female NPT male thread port.

Use above kits with CQG, CQH and CQV Series couplings.

**DrumQuik® Asian Drum Adaptors • POLYPROPYLENE**

The DrumQuik® Asian drum adaptors allow ChemQuik® or general purpose (HFC or NSH) couplings to be easily connected to the unique threads common in many drum closures (with integral dip-tubes) manufactured in Asia, e.g., Kodama, Accelo, Stella, Dung Woo, etc. A 3/4" female NPT inner thread can accept any coupling or fitting with a 3/4" male NPT termination. All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet applicable standards for use in transportation of hazardous materials.
The patented 3/8” flow Universal Dispensing Coupler (UDC) provides a universal connection to a 38mm threaded or snap-in fitment neck. Make instant connections to bulk packaging systems including bag-in-box (BIB), flexible and rigid packaging styles. Automatic flush face valves minimize costly or dangerous spillage. An ergonomic design and a large, shrouded thumb latch pad produce a coupling that is easy to grip and simple to operate.

The UDC Series is also available with optional RFID (Radio Frequency Identification) capability (see page 95).

The UDC Series connectors are listed under NSF/ANSI standard 169.
**PUNCTURE SEAL SERIES CONNECTOR**

**The 1/4” flow Puncture Seal dispensing system provides clean and safe liquid dispensing from bag-in-box (BIB) or other types of flexible packaging.**

The system consists of a Puncture Seal closure cap and a specially designed quick disconnect coupling body. The closure makes a positive thread or snap-in seal with a 38mm fitment neck. The Puncture Seal coupling body automatically breaks the membrane seal on the closure cap when connected. To switch to a new container, simply depress the CPC thumb latch to disconnect the system and then connect the Puncture Seal coupling body to a fresh container.

**Features**

- **Puncture Seal coupling**
  - Easily breaks the Puncture Seal membrane
- **Polypropylene and polyethylene materials**
  - Greater chemical resistance
- **Puncture Seal membrane**
  - Eliminates shipping caps and o-rings
- **CPC thumb latch**
  - One-hand connection and disconnection

**Specifications**

**Pressure:**
120 psi, 8.3 bar (coupling body)

**Temperature:**
32°F to 160°F (0°C to 71°C)

**Materials:**
- Main components and valves: Polypropylene
- 38mm closure: Polyethylene (LDPE)
- Thumb latch: Stainless steel
- Valve spring: 316 stainless steel
- O-rings: EPDM

**Closure Size:** 9P-400 (38mm)

**Tubing Sizes:**
- 1/4” ID, 6.4mm ID
- 3/8” ID, 9.5mm ID

**Termination**

- **In-Line**
- **Thread on 38mm Valved**
- **Snap-In 38mm Valved**

**NOTES:**

**CPC’S PUNCTURE SEAL CLOSURES CAN BE USED TO DISPENSE VIRTUALLY ANY LIQUID FROM FLEXIBLE PACKAGES!**

The Puncture Seal makes transporting and dispensing cleaning concentrates, dry cleaning chemicals and soaps cleaner and safer. Printing inks, photo developers and dying agents can also be dispensed quickly and easily, without messy drips or spills. The Puncture Seal can also be used with beverage and condiment dispensing systems, just look for the NSF-listed part numbers.

**DID YOU KNOW?**

The Puncture Seal membrane contains two molded seal rings. This ensures a tight seal and prevents leaks. It is designed to be easy to use and maintenance-free, making it a reliable choice for various applications.
FitQuik® Connectors from CPC are high quality fittings for leak-free tubing connections. These precision molded fittings are designed to eliminate tubing leak points in applications such as medical devices, analytical instrumentation, or air-driven equipment.

Cost-competitive FitQuik Connectors are offered in many standard configurations and in custom designs to meet unique customer specifications.

**Designed to fit.** Quality FitQuik® Connectors are instrumentation-grade fittings that ensure a secure fit in even the most demanding applications. These fittings feature precise hose barbs and thread forms to ensure the right fit every time.

**Materials available:** Black and white nylon, polypropylene, PVDF, and polycarbonate (available in medical-grade and USP Class VI, ADFC)
### Tube to Tube Fittings - Straight

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS1</td>
<td>Polypropylene Straight Fitting, 1/8&quot; Hose Barbs</td>
</tr>
<tr>
<td>HS15</td>
<td>Black Nylon Straight Fitting, 1/8&quot; Hose Barbs</td>
</tr>
<tr>
<td>HS2</td>
<td>Polypropylene Straight Fitting, 1/16&quot; Hose Barbs</td>
</tr>
<tr>
<td>HS25</td>
<td>Black Nylon Straight Fitting, 1/16&quot; Hose Barbs</td>
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<tr>
<td>HS3</td>
<td>Polypropylene Straight Fitting, 3/32&quot; Hose Barbs</td>
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<td>Black Nylon Straight Fitting, 3/32&quot; Hose Barbs</td>
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<td>HS4</td>
<td>Polypropylene Straight Fitting, 1/4&quot; Hose Barbs</td>
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<tr>
<td>HS4S</td>
<td>Purple Tint Polypropylene Straight Fitting, 1/4&quot; Hose Barbs</td>
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<td>Polypropylene Straight Fitting, 5/32&quot; Hose Barbs</td>
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<tr>
<td>HS5S</td>
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<td>Purple Tint Polypropylene Straight Fitting, 5/32&quot; Hose Barbs</td>
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<td>Purple Tint Polypropylene Straight Fitting, 3/32&quot; Hose Barbs</td>
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<tr>
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<td>Polypropylene Straight Fitting, 1/16&quot; Hose Barbs</td>
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<tr>
<td>HS11S</td>
<td>Purple Tint Polypropylene Straight Fitting, 1/16&quot; Hose Barbs</td>
</tr>
<tr>
<td>HS12</td>
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<tr>
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<td>Purple Tint Polypropylene Straight Fitting, 3/64&quot; Hose Barbs</td>
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<td>Purple Tint Polypropylene Straight Fitting, 1/8&quot; Hose Barbs</td>
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<tr>
<td>HS14</td>
<td>Polypropylene Straight Fitting, 1/32&quot; Hose Barbs</td>
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<tr>
<td>HS14S</td>
<td>Purple Tint Polypropylene Straight Fitting, 1/32&quot; Hose Barbs</td>
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<td>HS17</td>
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<td>HS19</td>
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### Tube to Tube Fittings - Elbow

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<tr>
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<th>DESCRIPTION</th>
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<tr>
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<td>Polypropylene Elbow Fitting, 1/16&quot; Hose Barbs</td>
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<tr>
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<td>Black Nylon Elbow Fitting, 1/16&quot; Hose Barbs</td>
</tr>
<tr>
<td>HE2</td>
<td>Polypropylene Elbow Fitting, 1/8&quot; Hose Barbs</td>
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<td>Black Nylon Elbow Fitting, 1/8&quot; Hose Barbs</td>
</tr>
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<td>HE3</td>
<td>Polypropylene Elbow Fitting, 1/4&quot; Hose Barbs</td>
</tr>
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<td>Black Nylon Elbow Fitting, 1/4&quot; Hose Barbs</td>
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<td>HE4</td>
<td>Polypropylene Elbow Fitting, 5/32&quot; Hose Barbs</td>
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<td>Black Nylon Elbow Fitting, 5/32&quot; Hose Barbs</td>
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<td>Polypropylene Elbow Fitting, 3/32&quot; Hose Barbs</td>
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<td>Polypropylene Elbow Fitting, 1/8&quot; Hose Barbs</td>
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<td>Polypropylene Elbow Fitting, 1/32&quot; Hose Barbs</td>
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<td>Polypropylene Elbow Fitting, 1/64&quot; Hose Barbs</td>
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<td>Polypropylene Elbow Fitting, 1/32&quot; Hose Barbs</td>
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<td>HE12</td>
<td>Polypropylene Elbow Fitting, 1/64&quot; Hose Barbs</td>
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<td>Black Nylon Elbow Fitting, 1/64&quot; Hose Barbs</td>
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### Tube to Tube Fittings - Tee

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<th>DESCRIPTION</th>
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<tr>
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<td>Polypropylene Tee Fitting, 1/8&quot; Hose Barbs</td>
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<td>Black Nylon Tee Fitting, 1/8&quot; Hose Barbs</td>
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<td>Polypropylene Tee Fitting, 1/4&quot; Hose Barbs</td>
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<td>Black Nylon Tee Fitting, 1/4&quot; Hose Barbs</td>
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<tr>
<td>HT3</td>
<td>Polypropylene Tee Fitting, 5/32&quot; Hose Barbs</td>
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<td>Black Nylon Tee Fitting, 5/32&quot; Hose Barbs</td>
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<td>Polypropylene Tee Fitting, 3/32&quot; Hose Barbs</td>
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<td>Polypropylene Tee Fitting, 1/8&quot; Hose Barbs</td>
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<td>Polypropylene Tee Fitting, 1/64&quot; Hose Barbs</td>
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<td>Black Nylon Tee Fitting, 1/64&quot; Hose Barbs</td>
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<td>HT8</td>
<td>Polypropylene Tee Fitting, 1/32&quot; Hose Barbs</td>
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<tr>
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<td>Black Nylon Tee Fitting, 1/32&quot; Hose Barbs</td>
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### Tube to Tube Fittings - Reducer

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<tr>
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<td>Black Nylon Reducer Fitting, 3/32&quot; to 5/32&quot; Hose Barb</td>
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<tr>
<td>HR2</td>
<td>Polypropylene Reducer Fitting, 5/32&quot; to 1/8&quot; Hose Barb</td>
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<tr>
<td>HR2E</td>
<td>Black Nylon Reducer Fitting, 5/32&quot; to 1/8&quot; Hose Barb</td>
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<td>HR3</td>
<td>Polypropylene Reducer Fitting, 1/8&quot; to 3/32&quot; Hose Barb</td>
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<tr>
<td>HR3E</td>
<td>Black Nylon Reducer Fitting, 1/8&quot; to 3/32&quot; Hose Barb</td>
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**Note:** Parts not shown to scale. For customer drawings and technical specifications please visit cpcworldwide.com.
### Thread to Tube Fittings - Straight

<table>
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<th>DESCRIPTION</th>
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<td>Polypropylene Straight Fitting, 1/4&quot;-20 UNF to 1/16&quot; Hose Barb</td>
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<td>K13</td>
<td>Black Nylon Straight Fitting, 1/4&quot;-20 UNF to 1/16&quot; Hose Barb</td>
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<tr>
<td>K21</td>
<td>Polypropylene Straight Fitting, 1/8&quot;-27 to 1/16&quot; Hose Barb</td>
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<tr>
<td>K22</td>
<td>Black Nylon Straight Fitting, 1/8&quot;-27 to 1/16&quot; Hose Barb</td>
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<tr>
<td>K31</td>
<td>Polypropylene Straight Fitting, 1/4&quot;-28 UNF to 1/16&quot; Hose Barb</td>
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<tr>
<td>K32</td>
<td>Black Nylon Straight Fitting, 1/4&quot;-28 UNF to 1/16&quot; Hose Barb</td>
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<td>K41</td>
<td>Polypropylene Straight Fitting, 1/8&quot;-27 to 5/32&quot; Hose Barb</td>
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<td>K91</td>
<td>Polypropylene Straight Fitting, 1/4&quot;-28 UNF to 3/32&quot; Hose Barb</td>
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<td>K92</td>
<td>Black Nylon Straight Fitting, 1/4&quot;-28 UNF to 3/32&quot; Hose Barb</td>
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### Thread to Tube Fittings - Elbow (cont)

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<tr>
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<td>Polypropylene Elbow Fitting, 1/2&quot; NPT to 1/4&quot; Hose Barb</td>
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<td>Black Nylon Elbow Fitting, 1/2&quot; NPT to 1/4&quot; Hose Barb</td>
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<td>M22</td>
<td>Polypropylene Elbow Fitting, 1/2&quot; NPT to 3/16&quot; Hose Barb</td>
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<td>M23</td>
<td>Black Nylon Elbow Fitting, 1/2&quot; NPT to 3/16&quot; Hose Barb</td>
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<tr>
<td>M32</td>
<td>Polypropylene Elbow Fitting, 1/2&quot; NPT to 5/32&quot; Hose Barb</td>
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<td>M33</td>
<td>Black Nylon Elbow Fitting, 1/2&quot; NPT to 5/32&quot; Hose Barb</td>
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### Thread to Tube Fittings - Tee (cont)

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<td>Black Nylon Tee Fitting, 1/2&quot; NPT to 1/4&quot; Hose Barb</td>
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<td>T22</td>
<td>Polypropylene Tee Fitting, 1/2&quot; NPT to 3/16&quot; Hose Barb</td>
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<td>Black Nylon Tee Fitting, 1/2&quot; NPT to 3/16&quot; Hose Barb</td>
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<tr>
<td>T32</td>
<td>Polypropylene Tee Fitting, 1/2&quot; NPT to 5/32&quot; Hose Barb</td>
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<td>Black Nylon Tee Fitting, 1/2&quot; NPT to 5/32&quot; Hose Barb</td>
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### Thread to Tube Fittings - Straight (cont)

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<td>Black Nylon Straight Fitting, 3/16&quot;-24 to 1/16&quot; Hose Barb</td>
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<tr>
<td>N22</td>
<td>Polypropylene Straight Fitting, 5/32&quot;-24 to 1/16&quot; Hose Barb</td>
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<td>Black Nylon Straight Fitting, 5/32&quot;-24 to 1/16&quot; Hose Barb</td>
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<td>N32</td>
<td>Polypropylene Straight Fitting, 3/32&quot;-24 to 1/16&quot; Hose Barb</td>
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### Plugs and Thread to Thread

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<th>PART NO.</th>
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<tbody>
<tr>
<td>M12</td>
<td>Polypropylene Threaded Plug, 3/8&quot;-19 to 1/8&quot; Hose Barb</td>
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<td>Black Nylon Threaded Plug, 3/8&quot;-19 to 1/8&quot; Hose Barb</td>
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<tr>
<td>M22</td>
<td>Polypropylene Threaded Plug, 3/8&quot;-19 to 1/4&quot; Hose Barb</td>
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<tr>
<td>M23</td>
<td>Black Nylon Threaded Plug, 3/8&quot;-19 to 1/4&quot; Hose Barb</td>
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<tr>
<td>M32</td>
<td>Polypropylene Threaded Plug, 1/4&quot;-28 UNF to 1/8&quot; Hose Barb</td>
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<tr>
<td>M33</td>
<td>Black Nylon Threaded Plug, 1/4&quot;-28 UNF to 1/8&quot; Hose Barb</td>
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<td>Polypropylene Threaded Plug, 1/4&quot;-28 UNF to 1/4&quot; Hose Barb</td>
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<td>N22</td>
<td>Polypropylene Threaded Plug, 1/4&quot;-28 UNF to 5/32&quot; Hose Barb</td>
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<td>Black Nylon Threaded Plug, 1/4&quot;-28 UNF to 3/32&quot; Hose Barb</td>
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### Note:
Parts not shown to scale. For customer drawings and technical specifications, please visit cpcworldwide.com.
**BLOOD PRESSURE**

**Blood Pressure Fittings - Male Bayonet**

<table>
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<td>GS420</td>
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<td>GS320</td>
<td>White Nylon Male Bayonet Fitting to 1/8&quot; Hose Barb</td>
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<tr>
<td>BC631</td>
<td>Purple Tint Polycarbonate Male Nut to 1/16&quot; Hose Barb</td>
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<tr>
<td>BC630</td>
<td>Black Nylon Male Nut to 1/16&quot; Hose Barb</td>
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<tr>
<td>BC531</td>
<td>Black Nylon Male Nut to 3/32&quot; Hose Barb</td>
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<tr>
<td>BC530</td>
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**Blood Pressure Fittings - Screw-type**

<table>
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<tr>
<td>GS104</td>
<td>White Nylon Male Bayonet with PTFE rotating nut</td>
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<tr>
<td>LM105</td>
<td>White Nylon Male Bayonet Fitting to 3/16&quot; Hose Barb</td>
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<td>White Nylon Male Bayonet Fitting to 5/32&quot; Hose Barb</td>
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<tr>
<td>LM103</td>
<td>White Nylon Male Bayonet Fitting to 1/8&quot; Hose Barb</td>
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<td>LM102</td>
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**LUERS**

**Male Luers**

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<td>Polyprene Male Fitting to 1/8&quot; Hose Barb</td>
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<td>LM108</td>
<td>Purple Tint Polycarbonate Male Nut to 1/8&quot; Hose Barb</td>
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**Female Luers**

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<td>Purple Tint Polycarbonate Female Nut to 5/32&quot; Hose Barb</td>
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<td>Polyprene Female Fitting to 1/8&quot; Hose Barb</td>
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<td>Purple Tint Polycarbonate Female Nut to 1/16&quot; Hose Barb</td>
</tr>
<tr>
<td>LF117</td>
<td>Polyprene Female Fitting to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>LF118</td>
<td>White Nylon Female Fitting to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>LF119</td>
<td>Black Nylon Female Nut to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>LF120</td>
<td>Purple Tint Polycarbonate Female Nut to 1/8&quot; Hose Barb</td>
</tr>
</tbody>
</table>

**Panel Mount Male Luers**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM101</td>
<td>Polyprene Panel Mount Male Fitting to 3/16&quot; Hose Barb</td>
</tr>
<tr>
<td>PM102</td>
<td>White Nylon Panel Mount Male Fitting to 5/32&quot; Hose Barb</td>
</tr>
<tr>
<td>PM103</td>
<td>Black Nylon Panel Mount Male Fitting to 3/32&quot; Hose Barb</td>
</tr>
<tr>
<td>PM104</td>
<td>Purple Tint Polycarbonate Panel Mount Male Fitting to 3/32&quot; Hose Barb</td>
</tr>
<tr>
<td>PM105</td>
<td>Polyprene Panel Mount Male Nut to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>PM106</td>
<td>White Nylon Panel Mount Male Nut to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>PM107</td>
<td>Black Nylon Panel Mount Male Nut to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>PM108</td>
<td>Purple Tint Polycarbonate Panel Mount Male Nut to 1/8&quot; Hose Barb</td>
</tr>
</tbody>
</table>

**Panel Mount Female Luers**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMF101</td>
<td>Polyprene Panel Mount Female Fitting to 3/16&quot; Hose Barb</td>
</tr>
<tr>
<td>PMF102</td>
<td>White Nylon Panel Mount Female Fitting to 5/32&quot; Hose Barb</td>
</tr>
<tr>
<td>PMF103</td>
<td>Black Nylon Panel Mount Female Fitting to 3/32&quot; Hose Barb</td>
</tr>
<tr>
<td>PMF104</td>
<td>Purple Tint Polycarbonate Panel Mount Female Fitting to 3/32&quot; Hose Barb</td>
</tr>
<tr>
<td>PMF105</td>
<td>Polyprene Panel Mount Female Nut to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>PMF106</td>
<td>White Nylon Panel Mount Female Nut to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>PMF107</td>
<td>Black Nylon Panel Mount Female Nut to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>PMF108</td>
<td>Purple Tint Polycarbonate Panel Mount Female Nut to 1/8&quot; Hose Barb</td>
</tr>
</tbody>
</table>

**Luer Accessories**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>U101</td>
<td>Polyprene Luer Color Coded Ring</td>
</tr>
<tr>
<td>U102</td>
<td>White Nylon Luer Color Coded Ring</td>
</tr>
<tr>
<td>U103</td>
<td>Black Nylon Luer Color Coded Ring</td>
</tr>
<tr>
<td>U104</td>
<td>Purple Tint Polycarbonate Luer Color Coded Ring</td>
</tr>
<tr>
<td>U105</td>
<td>Yellow Nylon Luer Color Coded Ring</td>
</tr>
<tr>
<td>U106</td>
<td>Orange Nylon Luer Color Coded Ring</td>
</tr>
</tbody>
</table>

**Male Slip Luers**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM101</td>
<td>Polyprene Male Slip Fitting to 3/16&quot; Hose Barb</td>
</tr>
<tr>
<td>SM102</td>
<td>White Nylon Male Slip Fitting to 5/32&quot; Hose Barb</td>
</tr>
<tr>
<td>SM103</td>
<td>Black Nylon Male Slip Fitting to 3/32&quot; Hose Barb</td>
</tr>
<tr>
<td>SM104</td>
<td>Purple Tint Polycarbonate Male Slip Fitting to 3/32&quot; Hose Barb</td>
</tr>
<tr>
<td>SM105</td>
<td>Polyprene Male Slip Fitting to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>SM106</td>
<td>White Nylon Male Slip Fitting to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>SM107</td>
<td>Black Nylon Male Slip Fitting to 1/8&quot; Hose Barb</td>
</tr>
<tr>
<td>SM108</td>
<td>Purple Tint Polycarbonate Male Slip Fitting to 1/8&quot; Hose Barb</td>
</tr>
</tbody>
</table>

**Luer Caps and Plugs**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC101</td>
<td>Polyprene Luer Cap</td>
</tr>
<tr>
<td>LC102</td>
<td>White Nylon Luer Cap</td>
</tr>
<tr>
<td>LC103</td>
<td>Black Nylon Luer Cap</td>
</tr>
<tr>
<td>LC104</td>
<td>Purple Tint Polycarbonate Luer Cap</td>
</tr>
</tbody>
</table>

---

*Note: Part numbers and descriptions provided for illustrative purposes only. Consult manufacturer specifications for the most accurate information.*
STERILIZATION AND DISINFECTANT METHODS

**METHOD**

<table>
<thead>
<tr>
<th>DISINFECTANTS</th>
<th>ETHYLENE OXIDE</th>
<th>AUTOCLAVE</th>
<th>E-BEAM IRRADIATION</th>
<th>GAMMA IRRADIATION</th>
<th>DRY HEAT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Y</strong></td>
<td>Excellent, recommended material for this sterilization method</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>Not recommended</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MATERIAL**

- Stainless Steel
- 316 Stainless Steel
- Polycarbonate
- Polypropylene (PP, PE)
- Polysulfone

**EMITTERS**

- Neutron
- Gamma
- X-ray
- UV Light

**POLYMERS**

- Polystyrene (PS)
- Polyethylene (PE)
- Polyethylene terephthalate (PET)
- Polyvinyl chloride (PVC)

**ELASTOMERS**

- Silicone
- Viton®
- EPDM
- Fluororubber®

**DISINFECTANTS**

- Formalin
- Isopropyl Alcohol
- Ethanol

**Sterilization Methods**

**DISINFECTANTS**: 70% (20°C), Formamid, ethyl alcohol, etc. Sterilize coupled or uncoupled.

**ETHYLENE OXIDE, ETO**: Four hours, 100% ETO @ 110°F (43°C), up to five repetitions, coupled or uncoupled.

**AUTOCLAVE**: Acetox: 250°F (121°C), 30 minutes max, up to 10 repetitions. Sterilize uncoupled only.

- Polycarbonate: 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.
- Polysulfone: 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.
- Dura-Therm Connection: 266°F (130°C) for 60 minutes, up to 25 repetitions for uncoupled units and up to one repetition for coupled units.

**GAMMA**: Maximum cumulative exposure of 50 kilorads. Sterilize coupled or uncoupled.

**DRI HEAT**: 250°F (121°C), 12 hours, no pressure. Sterilize uncoupled only.

**SIP Process**: Up to 275°F (135°C) for 60 minutes (Steam-Thru Connection)

**Usable for the chemical compatibility for your application? Consult the ChemCheck tool on [cpcworldwide.com](http://cpcworldwide.com) or contact CPC customer service to receive product samples for in-house testing and verification.**

**NOTES**

- Formalin: 96% (20°C), maximum concentration, up to 50% formalin in water.

- Isopropyl Alcohol: 99.5% (20°C), maximum concentration, up to 50% isopropyl alcohol in water.

- Ethanol: 95% (20°C), maximum concentration, up to 50% ethanol in water.

**JG® Push-To-Connect Accessories**

- **Description**: In-Line Couplings, Polyethylene, Polypropylene, etc. **NOTE**: Gaskets are not included with JG-32 PTF style fittings. To prevent leakage with these fittings, we recommend using LOCTITE® A.0150Q, A.0150X, or Equivalent Permanently Tolerant Load.

**TERMINATION**: Removable Threadlocker 242 or Permanent Threadlocker 262.

- **TUBING**: Semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

- **NOTE**: Gaskets are not included with 10-32 PTF style fittings. To prevent leakage with these fittings, we recommend using LOCTITE® A.0150Q, A.0150X, or Equivalent Permanently Tolerant Load.

**REFERENCES**: For in-house testing and verification. Use the ChemCheck tool on [cpcworldwide.com](http://cpcworldwide.com) or contact CPC customer service to receive product samples for in-house testing and verification.

**ACCESSORIES**

- **MATERIAL**: Aluminum, Brass-CDA 360, 316 Stainless Steel, 302 Stainless Steel, Metals.

**DISINFECTANTS**: 3% Formalin, ethyl alcohol, etc. Sterilize coupled or uncoupled.

**ETHYLENE OXIDE, ETO**: Four hours, 100% ETO @ 110°F (43°C), up to five repetitions, coupled or uncoupled.

**AUTOCLAVE**: Acetox: 250°F (121°C), 30 minutes max, up to 10 repetitions. Sterilize uncoupled only.

- Polycarbonate: 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.
- Polysulfone: 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.
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**GAMMA**: Maximum cumulative exposure of 50 kilorads. Sterilize coupled or uncoupled.

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**REFERENCES**: For in-house testing and verification. Use the ChemCheck tool on [cpcworldwide.com](http://cpcworldwide.com) or contact CPC customer service to receive product samples for in-house testing and verification.
REGULATORY AND COMPLIANCE

ISO 13485:2003 Certification
ISO 13485:2003 is recognized by regulators around the world as a good basis for addressing medical device design and manufacturing regulatory requirements. It allows us to enhance product safety by proactively identifying and managing product and project risks. Becoming ISO 13485:2003 certified has allowed us to better control the consistency of manufactured products.

ISO 9001:2008 Certification
ISO 9001:2008 is a standard which assures consistency of a product ordered by customers. Organizations having ISO 9001:2008 certification have demonstrated compliance to the ISO 9001:2008 requirements by an independent registration authority. CPC’s Quality Management System has been approved and certified under the ISO 9001:2008 standard.

Cleanroom Manufacturing
CPC manufactures certain Life Sciences and Chemical Management product lines in a cleanroom certified by an external testing service to meet or exceed ISO Class 7 (10,000) at 0.5 mm per ISO 14644 and the former Federal Standard 209E. Certification data is available upon request.

FDA and USDA
The U.S. Food and Drug Administration publishes, through the Code of Federal Regulations, standardized criteria which govern the acceptability of materials used in food contact. The U.S. Department of Agriculture publishes similar standards that mirror FDA criteria. Neither agency approves or disapproves products for particular applications. Most of CPC’s products are made using resins that comply with applicable FDA or USDA standards. When necessary, the standard o-ring seals are replaced with specific, recognized materials.

REACH
REACH is the Regulation for Registration, Evaluation, Authorisation and Restriction of Chemicals. It entered into force on 1st June 2007 to streamline and improve the former legislative framework on chemicals of the European Union (EU). REACH places greater responsibility on industry to manage the risks that chemicals may pose to the health and the environment. CPC publishes a list of CPC products that are compliant with the EU regulation 1907/2006.

Regulation of Hazardous Substances
The RoHS Directive stands for “the restriction of the use of certain hazardous substances in electrical and electronic equipment.” This Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

NSF
NSF International, based in Ann Arbor, Michigan, develops and publishes consensual criteria that govern the acceptability of materials and equipment used in food and beverage processing. They also do testing to verify the performance of materials or devices to their published criteria. CPC lists many of its product lines under the criteria of NSF/ANSI Standards, which governs components used in food and beverage contact applications.
CPC WARRANTY STATEMENT: CPC (Colder Products Company) warrants its products against defects in workmanship and materials for a period of 12 months from the date of sale by CPC to its initial customer (regardless of any subsequent sale of the products). This warranty is void if the product is misused, altered, tampered with or installed in a manner that is inconsistent with CPC’s written recommendations, specifications and instructions, or both in pursuit of any normal wear and tear. CPC does not warrant the suitability of the product for any particular application. Determining product application suitability is solely the customer’s responsibility. CPC is not liable for special, indirect, incidental, consequential or other damages including, but not limited to, loss, damage, personal injury, or any other expense directly or indirectly arising from the use of or inability to use the products other separately or in combination with other products. ALL OTHER WARRANTIES EXPRESS OR IMPLIED, WHETHER ORAL, WRITTEN OR IN ANY OTHER FORM, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED. The sole and exclusive remedy under this warranty is limited, at the option of CPC, to replacement of the defective product or an account credit in the amount of the original selling price. All allegedly defective CPC products must be returned prepaid transportation to CPC, together with information describing the product’s application and performance, unless otherwise authorized in writing by CPC.

CPC PATENT STATEMENT: CPC takes pride in its innovative quick disconnect coupling and fittings solutions, many of which have been awarded United States and international patents. CPC has a strong tradition of leadership in the quick disconnect market, and aggressively pursues and protects its proprietary information and intellectual property. In cases where it is practical and has a benefit to its customers, CPC has licensed its proprietary technology. Please contact CPC to discuss your unique needs.

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Smart fluid handling to take you forward, faster.