CPC™

A DOVER® COMPANY

INTELLIGENT
FLUID CONNECTIONS

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.

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 the process to ensure the use of the right tool at the right time.

IdentiQuik couplings allow the robust transfer of fluid and information in a limitless number of applications across multiple industries. Examples of potential applications include:

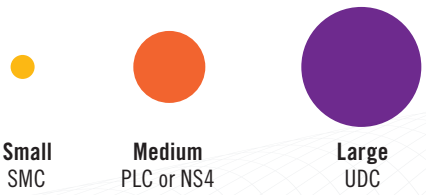
- ***Connection validation***
- ***Media validation***
- ***Operational control settings***
- ***Track and trace***
- ***Usage control***

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 design one for you.

Flow Capacity



Spillage Upon Disconnect

OUR HIGHEST-FLOW-CAPACITY COUPLING

IdentiQuik® Universal Dispensing Coupler (UDC)

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.

APPLICATIONS FOR UDC COUPLINGS INCLUDE:

- Bag-in-box (BIB) packaging systems
- Flexible bulk packaging systems
- Rigid bulk packaging systems
- Many more

Specifications

PRESSURE:
20" Hg Vacuum to 15 psi, 1 bar (body only)

TEMPERATURE: 32°F to 150°F (0°C to 65°C)

MATERIALS:
Main body components and valves: Polypropylene and Acetal
Thumb latch: Polypropylene
Springs: 316 stainless steel
O-rings (food grade): Silicone, Buna-N and EPDM

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

UDC Coupling Readers • POLYPROPYLENE

TERMINATION	TUBING SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE HOSE BARB (RS-232 Interface)	1/4" ID	6.4mm ID	iUDCDR1700400	2.00	3.49
	3/8" ID	9.5mm ID	iUDCDR1700600	2.00	3.49
	1/2" ID	12.7mm ID	iUDCDR1700800	2.00	3.49
	5/8" ID	15.9mm ID	iUDCDR1701000	2.00	3.49
	3/4" ID	19mm ID	iUDCDR1701200	2.00	3.49
IN-LINE HOSE BARB (USB Interface)	1/4" ID	6.4mm ID	iUDCDR1700401	2.0	3.49
	3/8" ID	9.5mm ID	iUDCDR1700601	2.0	3.49
	1/2" ID	12.7mm ID	iUDCDR1700801	2.0	3.49
PANEL MOUNT HOSE BARB (RS-232 Interface)	1/4" ID	6.4mm ID	iUDCDR1600400	For product dimensions visit cpcworldwide.com	
	3/8" ID	9.5mm ID	iUDCDR1600600		
	1/2" ID	12.7mm ID	iUDCDR1600800		
PANEL MOUNT HOSE BARB (USB Interface)	1/4" ID	6.4mm ID	iUDCDR1600401	For product dimensions visit cpcworldwide.com	
	3/8" ID	9.5mm ID	iUDCDR1600601		
	1/2" ID	12.7mm ID	iUDCDR1600801		

UDC Caps • ACETAL

TERMINATION	DESCRIPTION	METRIC EQ.	SHUTOFF	A	B
THREAD-ON 38MM VALVED	Without thread seal	38mm	iUDCDTCN3803	1.70	1.47
	With thread seal	38mm	iUDCDTCS3803	1.70	1.47

• 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.

TERMINATION	DESCRIPTION	METRIC EQ.	SHUTOFF	A	B
SNAP-IN 38MM VALVED		38mm	iUDCDTSN0000	1.62	1.76
		Note: *Snap-in closure designed to fit Scholle 900 bag necks.*			
THREAD-ON 38MM VALVED	Without thread seal	38mm	iUDCDTCN3800	1.70	1.48
	With thread seal	38mm	iUDCDTCS3800	1.70	1.48

CHEMICAL-RESISTANT AND HIGHLY VERSATILE

IdentiQuik® PLC12 Coupling

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

This popular coupling features one-hand connection and disconnection, and offers the flexibility of multiple configurations and terminations. Its polypropylene provides 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

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
Thumb latch: Stainless steel
Valve spring: 316 stainless steel
External springs and pin: 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

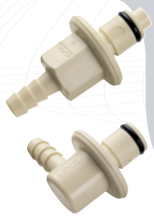
RF COMMUNICATION RANGE:
Approximately 1"

RFID TAG:
ISO 15693, 13.56MHz, 112 bytes programmable

Coupling Readers • POLYPROPYLENE

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B
IN-LINE HOSE BARB (RS-232 Interface)	1/4" ID	6.4mm ID		iPLCDR1700400	1.39	2.78
	3/8" ID	9.5mm ID		iPLCDR1700600	1.39	2.78
IN-LINE HOSE BARB (USB Interface)	1/4" ID	6.4mm ID		iPLCDR1700401	1.00	1.38/2.05
	3/8" ID	9.5mm ID		iPLCDR1700601	1.05	1.74/1.87

Coupling Inserts • POLYPROPYLENE



TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B
IN-LINE HOSE BARB (RS-232 Interface)	1/4" ID	6.4mm ID	iPLCT2200400	iPLCDT2200400	1.39	2.78
	3/8" ID	9.5mm ID	iPLCT2200600	iPLCDT2200600	1.39	2.78
ELBOW HOSE BARB (RS-232 Interface)	1/4" ID	6.4mm ID	iPLCT2300400	iPLCDT2300400	1.48	1.27/1.40
	3/8" ID	9.5mm ID	iPLCT2300600	iPLCDT2300600	1.48	1.33/1.46

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.

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 drip-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
- Inkjet printing
- Blood analysis
- 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 spring: 316 stainless steel

O-rings: EPDM (FKM optional)

Soft-touch overmold: TPV*

COLOR: Gray with dark gray 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

**The overmold material is known as TPV (thermoplastic vulcanizate). This TPV is an alloy of polypropylene thermoplastic and fully vulcanized EPDM rubber. The material is typically resistant to water, acids and bases.*

Coupling Readers • POLYPROPYLENE

TERMINATION	TUBING SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE HOSE BARB (RS-232 Interface)	1/8" ID	3.2mm	iNS4DR1700200	2.15	3.49
	1/4" ID	6.4mm	iNS4DR1700400	2.15	3.49
	3/8" ID	9.5mm	iNS4DR1700600	2.15	3.49
IN-LINE HOSE BARB (USB Interface)	1/4" ID	6.4mm ID	iNS4DR1700201	2.15	3.40
	3/8" ID	9.5mm ID	iNS4DR1700401	2.15	3.40
	1/2" ID	12.7mm ID	iNS4DR1700601	2.15	3.40

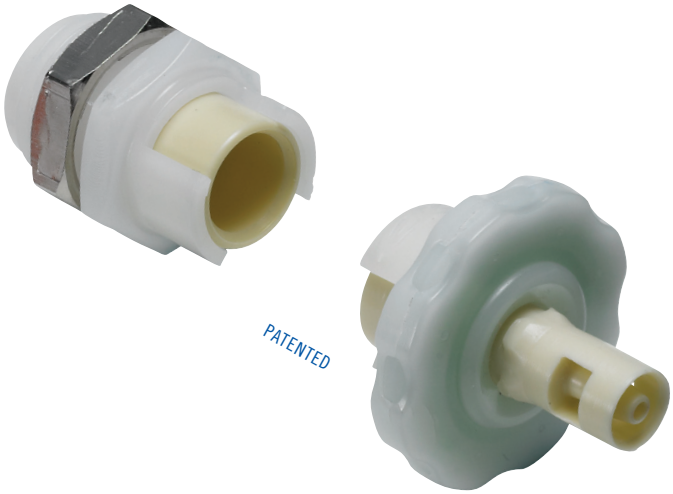
Coupling Inserts • POLYPROPYLENE

TERMINATION	TUBING SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE HOSE BARB (RS-232 Interface)	1/8" ID	3.2mm	iNS4DT2200200	For product dimensions visit cpcworldwide.com	
	1/4" ID	6.4mm	iNS4DT2200400		
	3/8" ID	9.5mm	iNS4DT2200600		

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.

OUR MOST COMPACT COUPLING

IdentiQuik® Subminiature Coupling (SMC)



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
- Surgical irrigation lines
- Reagents
- Many more

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

NOTE: For 1/16" ID tubing, maximum tube OD is .150".

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

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B
IN-LINE	1/16" ID	1.6mm ID	iSMFT0103	iSMFDT0103	.76	.76/.91
HOSE BARB	1/8" ID	3.2mm ID	iSMFT0203	iSMFDT0203	.76	.91/.91

• POLYPROPYLENE

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
IN-LINE	1/16" ID	1.6mm ID	iSMFT0100	.76	.76
HOSE BARB	1/8" ID	3.2mm ID	iSMFT0200	.76	.91

Coupling Inserts • ACETAL

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
IN-LINE HOSE BARB (Acetal Locking Sleeve)	1/16" ID	1.6mm ID	iSMMT0103	.76	.76
	1/8" ID	3.2mm ID	iSMMT0203	.76	.91

• 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.

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	A	B
IN-LINE HOSE BARB (Acetal Locking Sleeve)	1/16" ID	1.6mm ID	iSMMT0100	.76	.76
	1/8" ID	3.2mm ID	iSMMT0200	.76	.91

UNMATCHED CUSTOMIZATION CAPABILITIES

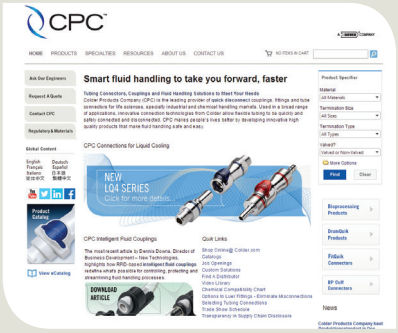
For more than 35 years, CPC engineers have worked with customers worldwide to design application-specific solutions that resolve their fluid handling-related challenges and improve product performance. We can do the same for you.

COMMON IDENTIQUIK® COUPLINGS CUSTOM APPLICATIONS INCLUDE:

- Weight, pressure, temperature and flow sensing
- Bulkhead mount readers
- Multiplexing technology

VISIT US ONLINE FOR INTERACTIVE WEB TOOLS

cpcworldwide.com



ALSO ON THE WEB

- Watch Product Videos
- Ask Our Engineers
- Application Articles
- White Papers
- Part Specifier
- Chemical Compatibility
- CAD Models

FIND A DISTRIBUTOR

cpcworldwide.com

Quick Disconnect Couplings and Connectors.

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 Standard 169 (formerly C-2), which governs components used in food and beverage contact applications.

Distributed by:

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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 is installed or used in a manner that is inconsistent with CPC's written recommendations, specifications and/or instructions, or fails to perform due to 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 its 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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