




# INTELLIGENT FLUID CONNECTIONS







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 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:***

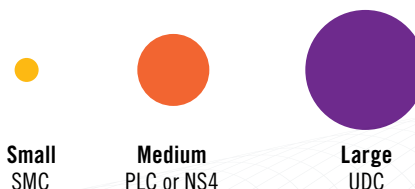
- >> ***Connection validation***
- >> ***Media validation***
- >> ***Operational control settings***
- >> ***Track and trace***
- >> ***Usage control***

## 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***

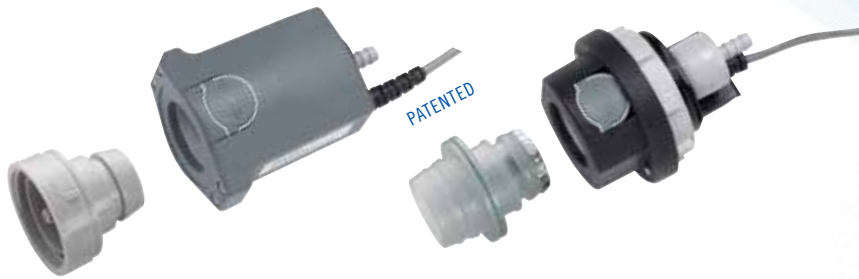


### ***Spillage Upon Disconnect***



# 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
- Rigid bulk packaging systems
- Flexible bulk packaging systems
- Many more

### UDC Coupling Readers • POLYPROPYLENE

TERMINATION	TUBING SIZE	METRIC EQ.	SHUTOFF	A	B
<b>IN-LINE HOSE BARB</b> (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
<b>IN-LINE HOSE BARB</b> (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
<b>PANEL MOUNT HOSE BARB</b> (RS-232 Interface)	1/4" ID	6.4mm ID	iUDCDR1600400	For product dimensions visit <a href="http://cpcworldwide.com">cpcworldwide.com</a>	
	3/8" ID	9.5mm ID	iUDCDR1600600		
	1/2" ID	12.7mm ID	iUDCDR1600800		
<b>PANEL MOUNT HOSE BARB</b> (USB Interface)	1/4" ID	6.4mm ID	iUDCDR1600401	For product dimensions visit <a href="http://cpcworldwide.com">cpcworldwide.com</a>	
	3/8" ID	9.5mm ID	iUDCDR1600601		
	1/2" ID	12.7mm ID	iUDCDR1600801		

### UDC Caps • ACETAL

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

### • POLYPROPYLENE

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

### 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

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.



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

## Coupling Inserts • POLYPROPYLENE

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



### 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.

**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
- Blood analysis
- Inkjet printing
- Many more

## Coupling Readers • POLYPROPYLENE



**TERMINATION**  
**IN-LINE**  
**HOSE BARB**  
(RS-232 Interface)

#### TUBING SIZE

1/8" ID  
1/4" ID  
3/8" ID

#### METRIC EQ.

3.2mm  
6.4mm  
9.5mm

#### SHUTOFF

iNS4DR1700200  
iNS4DR1700400  
iNS4DR1700600

**A**

2.15  
2.15  
2.15

**B**

3.49  
3.49  
3.49

**IN-LINE**  
**HOSE BARB**  
(USB Interface)

1/4" ID  
3/8" ID  
1/2" ID

6.4mm ID  
9.5mm ID  
12.7mm ID

iNS4DR1700201  
iNS4DR1700401  
iNS4DR1700601

**A**

2.15  
2.15  
2.15

**B**

3.40  
3.40  
3.40

## Coupling Inserts • POLYPROPYLENE



**TERMINATION**  
**IN-LINE**  
**HOSE BARB**  
(RS-232 Interface)

#### TUBING SIZE

1/8" ID  
1/4" ID  
3/8" ID

#### METRIC EQ.

3.2mm  
6.4mm  
9.5mm

#### SHUTOFF

iNS4DR2200200  
iNS4DR2200400  
iNS4DR2200600

**A**

For product  
dimensions visit  
cpcworldwide.com

**B**

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
- Reagents
- Surgical irrigation lines
- Many more

### Coupling Bodies • ACETAL



**TERMINATION  
IN-LINE  
HOSE BARB**

**TUBING SIZE**  
1/16" ID  
1/8" ID

**METRIC EQ.**  
1.6mm ID  
3.2mm ID

**STRAIGHT THRU**  
iSMFT0103  
iSMFT0203

**SHUTOFF**  
iSMFDT0103  
iSMFDT0203

**A**  
.76  
.76

**B**  
.76/.91  
.91/.91

### • POLYPROPYLENE



**TERMINATION  
IN-LINE  
HOSE BARB**

**TUBING SIZE**  
1/16" ID  
1/8" ID

**METRIC EQ.**  
1.6mm ID  
3.2mm ID

**STRAIGHT THRU**  
iSMFT0100  
iSMFT0200

**A**  
.76  
.76

**B**  
.76  
.91

### Coupling Inserts • ACETAL



**TERMINATION  
IN-LINE HOSE BARB**  
(Acetal Locking  
Sleeve)

**TUBING SIZE**  
1/16" ID  
1/8" ID

**METRIC EQ.**  
1.6mm ID  
3.2mm ID

**STRAIGHT THRU**  
iSMMT0103  
iSMMT0203

**A**  
.76  
.76

**B**  
.76  
.91

### • POLYPROPYLENE



**TERMINATION  
IN-LINE HOSE BARB**  
(Acetal Locking  
Sleeve)

**TUBING SIZE**  
1/16" ID  
1/8" ID

**METRIC EQ.**  
1.6mm ID  
3.2mm ID

**STRAIGHT THRU**  
iSMMT0100  
iSMMT0200

**A**  
.76  
.76

**B**  
.76  
.91

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.

## 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

# 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

美国CPC\_Colder Products Company快速接头和连接器  
授权西北代理商联系方式

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