

Разъемы IdentiQuik

Технические характеристики

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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

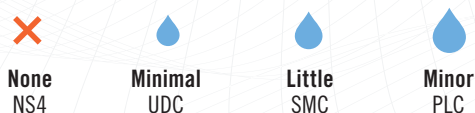
IdentiQuik couplings are available in a vast array of sizes and configurations that includes all our most popular product lines, opening endless new possibilities for your fluid handling processes.

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
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	
	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	
	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



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

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:

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

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

2.15

2.15
2.15

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

iNS4DT2200200
iNS4DT2200400
iNS4DT2200600

A

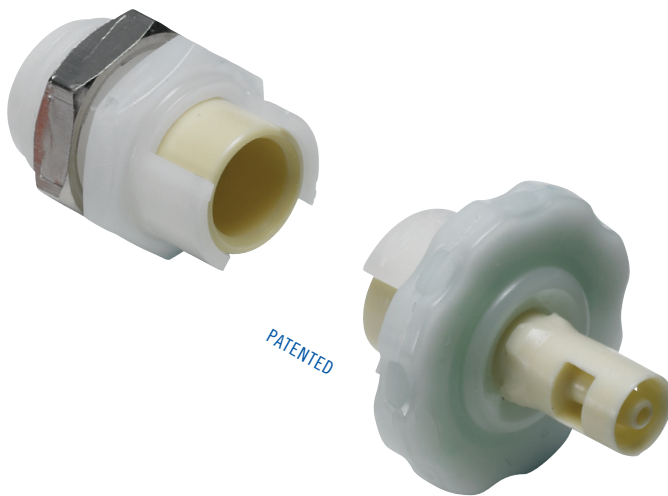
For product

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

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
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.

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

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.

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