

# NS1 SERIES CONNECTOR

**NS1 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

### PRESSURE:

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

**Thumb latch:** PEEK®

**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:** 0.01 cc per 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 products in their own application conditions.



cpcworldwide.com/NS1

### FEATURES

Non-spill design

Ultra low air inclusion

Intuitive interface

Rotating design

Chemically resistant materials

### BENEFITS

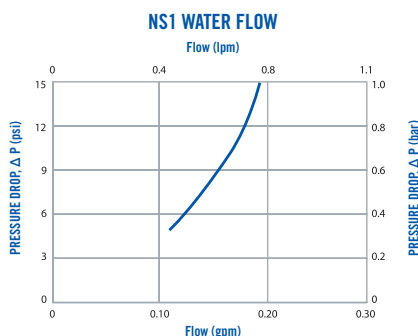
Closed system for drip-free disconnect

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



This graph 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.

# NS1 SERIES DIMENSIONS

## COUPLING BODIES - Polypropylene



TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE HOSE BARB	1/8" ID	3.2 MM ID	NS1D170212	0.61 (15.5)	1.33 (33.8)
IN-LINE WITH A 1/4-28 FLAT BOTTOM PORT	1/8" OD OR SMALLER*	3.2 MM OD OR SMALLER*	NS1D19042812	0.61 (15.5)	1.21 (30.7)
IN-LINE WITH A 1/4-28 MALE THREAD			NS1D10042812	0.61 (15.5)	1.28 (32.5)

## COUPLING INSERTS - Polypropylene



TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE HOSE BARB	1/8" ID	3.2 MM ID	NS1D220212	0.44 (11.2)	1.04 (26.4)
IN-LINE WITH A 1/4-28 FLAT BOTTOM PORT	1/8" OD OR SMALLER*	3.2 MM OD OR SMALLER*	NS1D26042812	0.44 (11.2)	0.92 (23.4)
IN-LINE WITH A 1/4-28 MALE THREAD			NS1D24042812	0.49 (12.4)	0.99 (25.1)
PANEL MOUNT HOSE BARB	1/8" ID	3.2 MM ID	NS1D420212	0.7 (17.8)	1.56 (39.6)
PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT	1/8" OD OR SMALLER*	3.2 MM OD OR SMALLER*	NS1D48042812	0.7 (17.8)	1.45 (36.8)

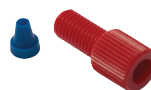
\*Tubing size dependent on nut and ferrule used with 1/4-28 port.

## ACCESSORIES



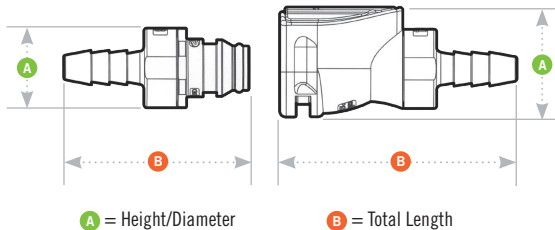
DESCRIPTION	MATERIAL	PART NO.
BULKHEAD O-RING: FOR SEALING PANEL MOUNT INSERTS LISTED ABOVE	EPDM	731303

## FERRULES



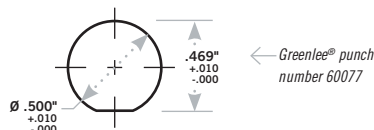
FOR 1/4-28 NUTS AND FERRULES, SEE PAGE 37 OR VISIT [CPCWORLDWIDE.COM](http://CPCWORLDWIDE.COM)

## PRODUCT DIMENSIONS



## PANEL DIMENSIONS

	PANEL OPENING	PANEL THICKNESS MAX. - MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING INSERTS	see drawing	0.29 - 0.05	5/8	1/2-24UNS



WARRANTY: All sales are subject to Colder Products Company's limited express warranty set forth in the CPC catalog. Contact your local distributor or CPC Customer Service for warranty provisions.

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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