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**SPECS &  
INFORMATION**



# NS4 SERIES CONNECTOR



**NS4 Series couplings** feature non-spill valves in a compact size, at a great price. Use the NS4 when even a few drops pose problems regarding safety, media cost or environmental regulations. These innovative couplings are lightweight, chemically resistant and easy to use. The non-spill design effectively eliminates spills, minimizes downtime and enhances operator safety. NS4 couplings are also available with optional RFID (Radio Frequency Identification) capability (see page 97).

## FEATURES

Non-spill design

Color coding

Glass-filled polypropylene

Medical-grade ABS

## BENEFITS

Disconnect under pressure with no spills

Instant visual differentiation of media lines

Durable and compatible with many chemicals

Gamma sterilizable

## 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\* overmold, ABS with TPE\* soft-touch overmold

**Thumb latch:** Glass-filled polypropylene, ABS

**Valve spring:** 316 stainless steel

**External spring:** 316 stainless steel

**O-rings:** EPDM

### COLOR:

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

**ABS:** White with teal overmold

### TUBING SIZES:

1/8" to 3/8" ID, 3.2mm to 9.5mm ID

### LUBRICANTS:

Krytox® PFPE (inert)

### SPILLAGE:

<0.10 cc per disconnect at all rated pressures

### INCLUSION:

0.26 cc per connect

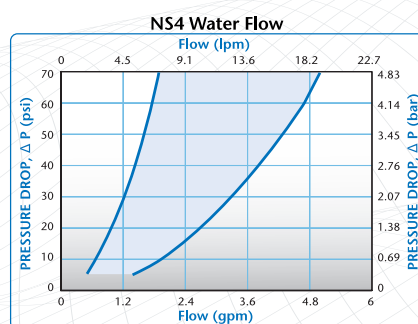
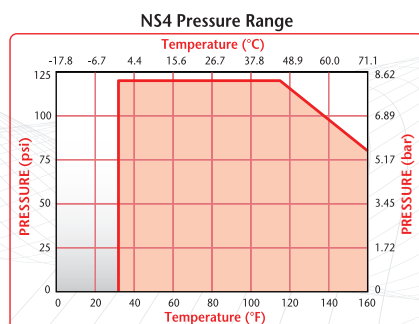
**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

\*The overmold material TPV (thermoplastic vulcanizate) is used with the NS4 polypropylene couplings. TPV is an alloy of polypropylene thermoplastic and fully vulcanized EPDM rubber. TPV is typically resistant to water, acids and bases. 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 forms extremely durable bonds to the ABS substrate, while offering the traditional properties of soft-touch overmold.

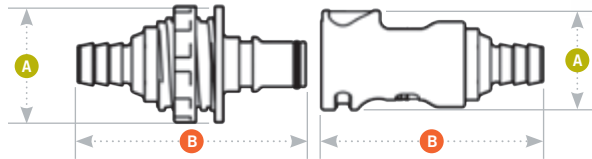
†NOTE: Standard product is gray; color options require a minimum quantities. Please contact CPC for details.



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.



# NS4 DIMENSIONS



**A** = Height/Diameter

**B** = Total Length

## Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.
COUPLING INSERTS	see drawing	.25 - .03

Ø .945"  
+.010  
-.000



## Coupling Bodies • POLYPROPYLENE / ABS



### TERMINATION IN-LINE PIPE THREAD

**TUBING/THREAD SIZE**  
1/4" NPT  
1/4" BSPT

**METRIC EQ.**

**ABS  
SHUTOFF**  
NS4D1000406  
NS4D10004BSPT06

**POLYPROPYLENE  
SHUTOFF**  
NS4D10004  
NS4D10004BSPT

**A** **B**  
1.05 2.31  
1.05 2.29

### IN-LINE FERRULELESS POLYTUBE FITTING, PTF†

1/4" OD, .17" ID 6.4mm OD, 4.3mm ID  
3/8" OD, 1/4" ID 9.5mm OD, 6.4mm ID

NS4D1300606

NS4D13004  
NS4D13006 1.05 2.32  
1.05 2.45

### IN-LINE HOSE BARB

1/8" ID\* 3.2mm ID\*  
1/4" ID 6.4mm ID  
3/8" ID 9.5mm ID

NS4D1700206  
NS4D1700406  
NS4D1700606

NS4D17002  
NS4D17004  
NS4D17006 1.05 2.09  
1.05 2.34  
1.05 2.34

### IN-LINE HOSE BARB (RS-232 Interface)

1/8" ID 3.2mm  
1/4" ID 6.4mm  
3/8" ID 9.5mm

NS4D1700206  
NS4D1700406  
NS4D1700606

iNS4DR1700200  
iNS4DR1700400  
iNS4DR1700600 2.15 3.49  
2.15 3.49  
2.15 3.49

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

1/4" ID 6.4mm ID  
3/8" ID 9.5mm ID  
1/2" ID 12.7mm ID

NS4D1700206  
NS4D1700406  
NS4D1700606

iNS4DR1700201  
iNS4DR1700401  
iNS4DR1700601 2.15 3.40  
2.15 3.40  
2.15 3.40

## Coupling Inserts • POLYPROPYLENE / ABS



### TERMINATION IN-LINE PIPE THREAD

**TUBING/THREAD SIZE**  
1/4" NPT  
1/4" BSPT

**METRIC EQ.**

**ABS  
SHUTOFF**  
NS4D2400406  
NS4D24004BSPT06

**POLYPROPYLENE  
SHUTOFF**  
NS4D24004  
NS4D24004BSPT

**A** **B**  
.96 1.95  
.96 1.95

### IN-LINE FERRULELESS POLYTUBE FITTING, PTF†

1/4" OD, .17" ID 6.4mm OD, 4.3mm ID  
3/8" OD, 1/4" ID 9.5mm OD, 6.4mm ID

NS4D2000606

NS4D20004  
NS4D20006 .96 1.95  
.96 2.09

### IN-LINE HOSE BARB

1/8" ID\* 3.2mm ID\*  
1/4" ID 6.4mm ID  
3/8" ID 9.5mm ID

NS4D2200206  
NS4D2200406  
NS4D2200606

NS4D22002  
NS4D22004  
NS4D22006 .96 1.73  
.96 1.98  
.96 1.98

### PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†

1/4" OD, .17" ID 6.4mm OD, 4.3mm ID  
3/8" OD, 1/4" ID 9.5mm OD, 6.4mm ID

NS4D4000606

NS4D40004  
NS4D40006 1.17 2.30  
1.17 2.43

### PANEL MOUNT HOSE BARB

1/8" ID\* 3.2mm ID\*  
1/4" ID 6.4mm ID  
3/8" ID 9.5mm ID

NS4D4200206  
NS4D4200406  
NS4D4200606

NS4D42002  
NS4D42004  
NS4D42006 1.17 2.07  
1.17 2.32  
1.17 2.32

### PANEL MOUNT HOSE BARB ELBOW

1/4" ID 6.4mm ID  
3/8" ID 9.5mm ID

NS4D43004  
NS4D43006

NS4D43004  
NS4D43006 1.19 2.39  
1.19 2.39

### ELBOW HOSE BARB

1/4" ID 6.4mm ID  
3/8" ID 9.5mm ID

NS4D23004  
NS4D23006

NS4D23004  
NS4D23006 0.96 2.04  
0.96 2.04

### IN-LINE HOSE BARB (RS-232 Interface)

1/8" ID 3.2mm  
1/4" ID 6.4mm  
3/8" ID 9.5mm

iNS4DT2200200  
iNS4DT2200400  
iNS4DT2200600

For product  
dimensions visit  
cpcworldwide.com

## Accessories

### DESCRIPTION

**PANEL MOUNT GASKET REPLACEMENT:** For sealing  
panel mount inserts listed above

### MATERIAL

EPDM  
FKM

### PART NO.

1879800  
1889500

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. †NOTE: CPC's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. \*NOTE: Patented 1/8" ID (3.2mm) hose barb connection has a support shroud allowing a maximum tube OD of 1/4" (6.4mm).





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