

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

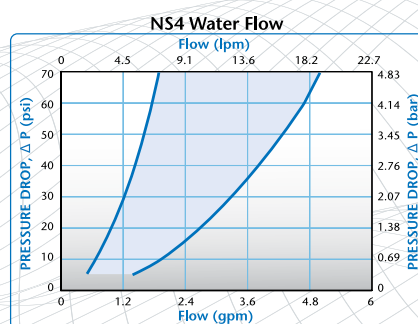
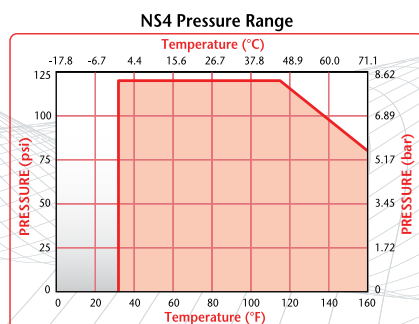
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

*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.

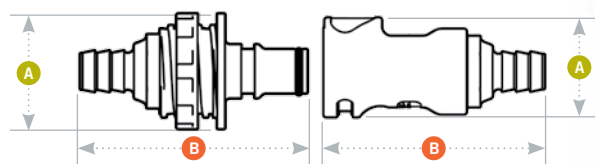
†NOTE: Standard product is gray; color options require a minimum quantities. Please contact CPC for details.



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**

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

**IN-LINE
HOSE BARB**

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

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

TUBING/THREAD SIZE

METRIC EQ.

**ABS
SHUTOFF**

**POLYPROPYLENE
SHUTOFF**

A

B

1/4" NPT

NS4D1000406

NS4D10004

1.05

2.31

1/4" BSPT

NS4D10004BSPT06

NS4D10004BSPT

1.05

2.29

1/4" OD, .17" ID

6.4mm OD, 4.3mm ID

NS4D13004

1.05

2.32

3/8" OD, 1/4" ID

9.5mm OD, 6.4mm ID

NS4D1300606

NS4D13006

1.05

2.45

1/8" ID*

3.2mm ID*

NS4D1700206

NS4D17002

1.05

2.09

1/4" ID

6.4mm ID

NS4D1700406

NS4D17004

1.05

2.34

3/8" ID

9.5mm ID

NS4D1700606

NS4D17006

1.05

2.34

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

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 / ABS



**TERMINATION
IN-LINE
PIPE THREAD**

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

**IN-LINE
HOSE BARB**

**PANEL MOUNT
FERRULELESS
POLYTUBE FITTING,
PTF†**

**PANEL MOUNT
HOSE BARB**

**PANEL MOUNT
HOSE BARB ELBOW**

**ELBOW
HOSE BARB**

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

TUBING/THREAD SIZE

METRIC EQ.

**ABS
SHUTOFF**

**POLYPROPYLENE
SHUTOFF**

A

B

1/4" NPT

NS4D2400406

NS4D24004

.96

1.95

1/4" BSPT

NS4D24004BSPT06

NS4D24004BSPT

.96

1.95

1/4" OD, .17" ID

6.4mm OD, 4.3mm ID

NS4D20004

.96

1.95

3/8" OD, 1/4" ID

9.5mm OD, 6.4mm ID

NS4D2000606

NS4D20006

.96

2.09

1/8" ID*

3.2mm ID*

NS4D2200206

NS4D22002

.96

1.73

1/4" ID

6.4mm ID

NS4D2200406

NS4D22004

.96

1.98

3/8" ID

9.5mm ID

NS4D2200606

NS4D22006

.96

1.98

1/4" OD, .17" ID

6.4mm OD, 4.3mm ID

NS4D40004

1.17

2.30

3/8" OD, 1/4" ID

9.5mm OD, 6.4mm ID

NS4D4000606

NS4D40006

1.17

2.43

1/8" ID*

3.2mm ID*

NS4D4200206

NS4D42002

1.17

2.07

1/4" ID

6.4mm ID

NS4D4200406

NS4D42004

1.17

2.32

3/8" ID

9.5mm ID

NS4D4200606

NS4D42006

1.17

2.32

1/4" ID

6.4mm ID

NS4D43004

1.19

2.39

3/8" ID

9.5mm ID

NS4D43006

1.19

2.39

1/4" ID

6.4mm ID

NS4D23004

0.96

2.04

3/8" ID

9.5mm ID

NS4D23006

0.96

2.04

1/8" ID

3.2mm

iNS4DR2200200

For product

1/4" ID

6.4mm

iNS4DR2200400

dimensions visit

3/8" ID

9.5mm

iNS4DR2200600

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).

Smart fluid handling to take you forward, faster. 61

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