

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).

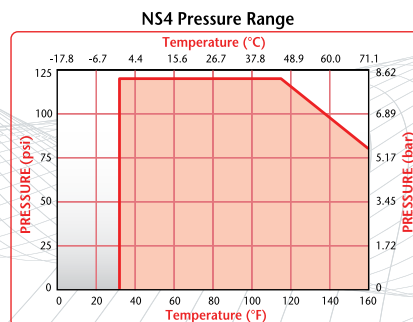
FEATURES

- 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

» 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.



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

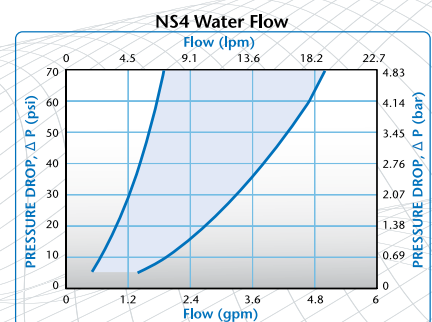
INCLUSION:

0.26 cc per connect

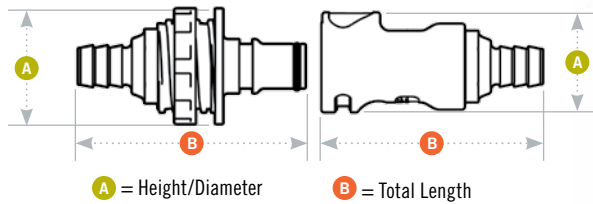
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

*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.



NS4 DIMENSIONS



Panel Dimensions

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

Ø .945"
+.010
-.000

Coupling Bodies • POLYPROPYLENE / ABS



TERMINATION
IN-LINE
PIPE THREAD

IN-LINE
FERRULESS
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.**

1/4" NPT
1/4" BSPT

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

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

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

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

ABS
SHUTOFF

NS4D1000406
NS4D10004BSPT06

NS4D1300606

NS4D1700206
NS4D1700406
NS4D1700606

NS4D1700206
NS4D1700406
NS4D1700606

NS4D1700201
NS4D1700401
NS4D1700601

POLYPROPYLENE
SHUTOFF

NS4D10004
NS4D10004BSPT

NS4D13004
NS4D13006

NS4D17002
NS4D17004
NS4D17006

iNS4DR1700200
iNS4DR1700400
iNS4DR1700600

iNS4DR1700201
iNS4DR1700401
iNS4DR1700601

A **B**
1.05 2.31
1.05 2.29

1.05 2.32
1.05 2.45

1.05 2.09
1.05 2.34
1.05 2.34

2.15 3.49
2.15 3.49
2.15 3.49

2.15 3.40
2.15 3.40
2.15 3.40

Coupling Inserts • POLYPROPYLENE / ABS



TERMINATION
IN-LINE
PIPE THREAD

IN-LINE
FERRULESS
POLYTUBE FITTING,
PTF†

IN-LINE
HOSE BARB

PANEL MOUNT
FERRULESS
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.**

1/4" NPT
1/4" BSPT

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

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

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

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

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

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

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

ABS
SHUTOFF

NS4D2400406
NS4D24004BSPT06

NS4D2000606

NS4D2200206
NS4D2200406
NS4D2200606

NS4D4000606

NS4D4200206
NS4D4200406
NS4D4200606

NS4D4300606

NS4D2300606

iNS4DR2200200
iNS4DR2200400
iNS4DR2200600

POLYPROPYLENE
SHUTOFF

NS4D24004
NS4D24004BSPT

NS4D20004
NS4D20006

NS4D22002
NS4D22004
NS4D22006

NS4D40004
NS4D40006

NS4D42002
NS4D42004
NS4D42006

NS4D43004
NS4D43006

NS4D23004
NS4D23006

iNS4DR2200200
iNS4DR2200400
iNS4DR2200600

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

.96 1.95
.96 2.09

.96 1.73
.96 1.98
.96 1.98

1.17 2.30
1.17 2.43

1.17 2.07
1.17 2.32
1.17 2.32

1.19 2.39
1.19 2.39

0.96 2.04
0.96 2.04

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).