

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).

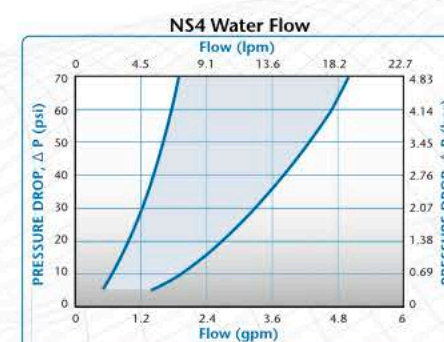
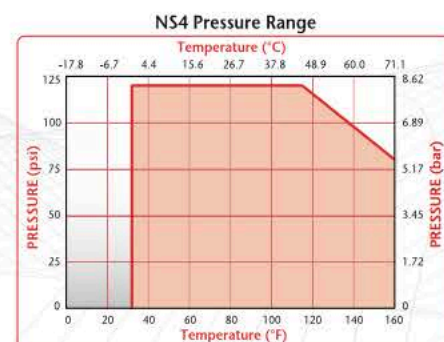
FEATURES

- 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:

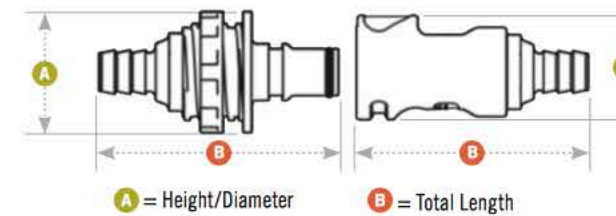
0.26 cc per connect

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.

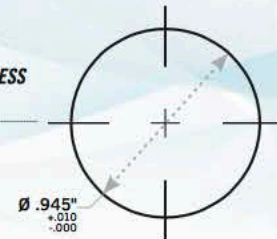
†NOTE: Standard product is gray; color options require a minimum quantities. Please contact CPC for details.

NS4 DIMENSIONS



Panel Dimensions

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



Coupling Bodies • POLYPROPYLENE / ABS

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	ABS SHUTOFF	POLYPROPYLENE SHUTOFF	A	B
IN-LINE PIPE THREAD	1/4" NPT		NS4D1000406	NS4D10004	1.05	2.31
	1/4" BSPT		NS4D10004BSPT06	NS4D10004BSPT	1.05	2.29
IN-LINE FERRULESS POLYTUBE FITTING, PTF†	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
IN-LINE HOSE BARB	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
IN-LINE HOSE BARB (RS-232 Interface)	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
IN-LINE HOSE BARB (USB Interface)	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	TUBING/THREAD SIZE	METRIC EQ.	ABS SHUTOFF	POLYPROPYLENE SHUTOFF	A	B
IN-LINE PIPE THREAD	1/4" NPT		NS4D2400406	NS4D24004	.96	1.95
	1/4" BSPT		NS4D24004BSPT06	NS4D24004BSPT	.96	1.95
IN-LINE FERRULESS POLYTUBE FITTING, PTF†	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
IN-LINE HOSE BARB	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
PANEL MOUNT FERRULESS POLYTUBE FITTING, PTF†	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
PANEL MOUNT HOSE BARB	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
PANEL MOUNT HOSE BARB ELBOW	1/4" ID	6.4mm ID		NS4D43004	1.19	2.39
	3/8" ID	9.5mm ID		NS4D43006	1.19	2.39
ELBOW HOSE BARB	1/4" ID	6.4mm ID		NS4D23004	0.96	2.04
	3/8" ID	9.5mm ID		NS4D23006	0.96	2.04
IN-LINE HOSE BARB (RS-232 Interface)	1/8" ID	3.2mm		iNS4DT2200200		For product dimensions visit cpcworldwide.com
	1/4" ID	6.4mm		iNS4DT2200400		
	3/8" ID	9.5mm		iNS4DT2200600		

Accessories

DESCRIPTION	MATERIAL	PART NO.
PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount inserts listed above	EPDM FKM	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).