



NS4 SERIES

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.

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:

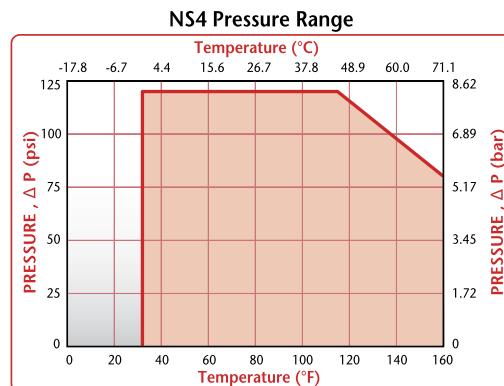
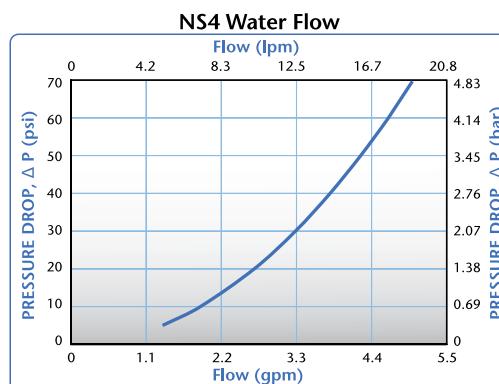
1/8" to 3/8" ID, 3.2mm to 9.5mm ID

Lubricants: Krytox® PFPE (inert)

Spillage: <0.10 cc/disconnect

*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 set-up charge and minimum quantities. Please contact Colder 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.

Product Dimensions (see page 53)

	PANEL OPENING	MAX. PANEL THICKNESS	MIN. PANEL THICKNESS
COUPLING INSERTS	see drawing on page 53	.25	.03

Coupling Bodies

POLYPROPYLENE / ABS

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 1/4" BSPT		POLYPROPYLENE SHUTOFF NS4D10004 NS4D10004BSPT	ABS SHUTOFF NS4D1000406 ‡ NS4D10004BSPT06	A 1.05	B 2.31 2.29	
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 3/8" OD, 1/4" ID	METRIC EQ. 9.5mm OD, 6.4mm ID	POLYPROPYLENE SHUTOFF NS4D13006	ABS SHUTOFF NS4D1300606	A 1.05	B 2.45	
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/8" ID* 1/4" ID 3/8" ID	METRIC EQ. 3.2mm ID* 6.4mm ID 9.5mm ID	POLYPROPYLENE SHUTOFF NS4D17002 NS4D17004 NS4D17006	ABS SHUTOFF NS4D1700206 NS4D1700406 NS4D1700606	A 1.05	B 2.09 2.34 2.34	

Coupling Inserts

POLYPROPYLENE / ABS

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 1/4" BSPT		POLYPROPYLENE SHUTOFF NS4D24004 ‡ NS4D24004BSPT	ABS SHUTOFF NS4D2400406 NS4D24004BSPT06	A .96	B 1.95 1.95	
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 3/8" OD, 1/4" ID	METRIC EQ. 9.5mm OD, 6.4mm ID	POLYPROPYLENE SHUTOFF NS4D20006	ABS SHUTOFF NS4D2000606	A .96	B 2.09	
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/8" ID* 1/4" ID 3/8" ID	METRIC EQ. 3.2mm ID* 6.4mm ID 9.5mm ID	POLYPROPYLENE SHUTOFF NS4D22002 NS4D22004 NS4D22006	ABS SHUTOFF NS4D2200206 NS4D2200406 NS4D2200606	A .96	B 1.73 1.98 1.98	
TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 3/8" OD, 1/4" ID	METRIC EQ. 9.5mm OD, 6.4mm ID	POLYPROPYLENE SHUTOFF NS4D40006	ABS SHUTOFF NS4D4000606	A 1.17	B 2.43	
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/8" ID* 1/4" ID 3/8" ID	METRIC EQ. 3.2mm ID* 6.4mm ID 9.5mm ID	POLYPROPYLENE SHUTOFF NS4D42002 NS4D42004 NS4D42006	ABS SHUTOFF NS4D4200206 NS4D4200406 NS4D4200606	A 1.17	B 2.07 2.32 2.32	

Accessories

PANEL MOUNT GASKET	For sealing panel mount inserts listed above	MATERIAL EPDM FKM	PART NO. 1879800 1889500	
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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: Colder's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. ‡Indicates coupling that can be used with DrumQuik®. *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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