

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.

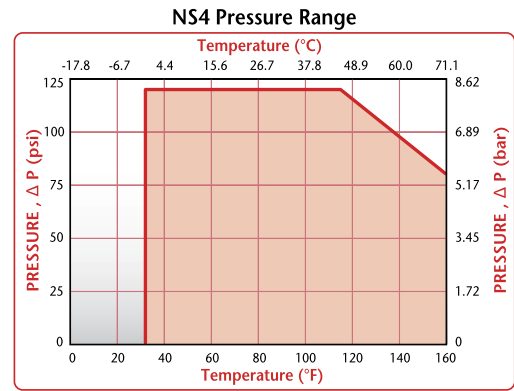
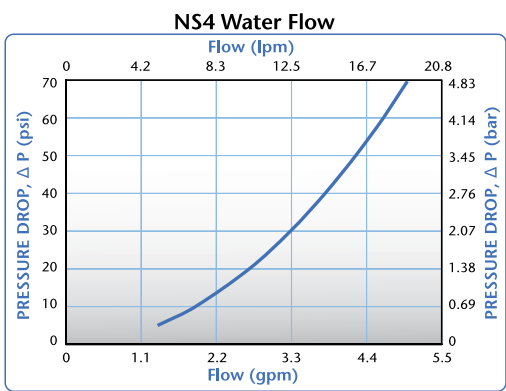
Features	Benefits
Non-spill design	Disconnect under pressure with no spills
Color coding	Instant visual differentiation of media lines
Glass-filled polypropylene	Durable and compatible with many chemicals
Medical-grade ABS	Gamma sterilizable

## Specifications

- Pressure:**  
Vacuum to 120 psi, 8.3 bar
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- 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
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- Color:**  
**Polypropylene:** Gray with dark gray overmold standard; gray with red or blue overmold available†  
**ABS:** White with teal overmold
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- Tubing Sizes:**  
1/8" to 3/8" ID, 3.2mm to 9.5mm ID
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- Lubricants:** Krytox® PFPE (inert)
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- 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
<b>COUPLING INSERTS</b>	see drawing on page 53	.25	.03

### Coupling Bodies

## POLYPROPYLENE / ABS

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

### Coupling Inserts

## POLYPROPYLENE / ABS

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

### Accessories

<b>PANEL MOUNT GASKET</b>	For sealing panel mount inserts listed above	<b>MATERIAL</b> EPDM FKM	<b>PART NO.</b> 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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