



# 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.

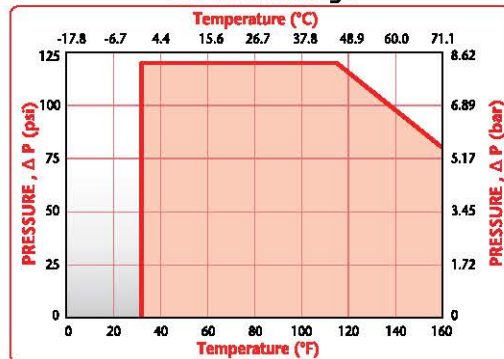
## Features

- Non-spill design
- Color coding
- Glass-filled polypropylene
- Medical-grade ABS

## Benefits

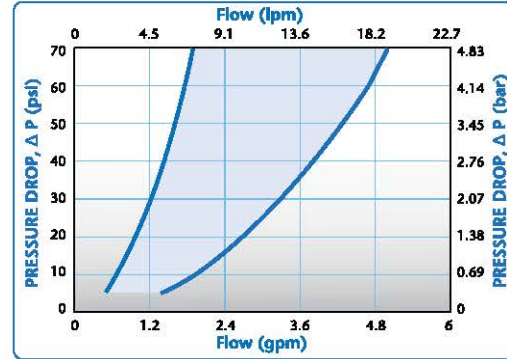
- Disconnect under pressure with no spills
- Instant visual differentiation of media lines
- Durable and compatible with many chemicals
- Gamma sterilizable

**NS4 Pressure Range**



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 Water Flow**



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

\*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.

## Coupling Bodies

### POLYPROPYLENE / ABS

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE	POLYPROPYLENE SHUTOFF		ABS SHUTOFF					
		NS4D10004	NS4D10004BSPT	NS4D1000406	NS4D10004BSPT06	A	B		
TERMINATION IN-LINE FERRULESS POLYTUBE FITTING, PTF†	TUBING SIZE	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	NS4D13004	NS4D13006	A	B		
	METRIC EQ.	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID					1.05	2.32
								1.05	2.45
TERMINATION IN-LINE HOSE BARB	TUBING SIZE	1/8" ID*	3.2mm ID*	NS4D17002	NS4D17004	A	B		
	METRIC EQ.	1/4" ID	6.4mm ID					1.05	2.34
		3/8" ID	9.5mm ID					1.05	2.34

## Coupling Inserts

### POLYPROPYLENE / ABS

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE	POLYPROPYLENE SHUTOFF		ABS SHUTOFF					
		NS4D24004	NS4D24004BSPT	NS4D2400406	NS4D24004BSPT06	A	B		
TERMINATION IN-LINE FERRULESS POLYTUBE FITTING, PTF†	TUBING SIZE	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	NS4D20004	NS4D20006	A	B		
	METRIC EQ.	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID					.96	1.95
								.96	2.09
TERMINATION IN-LINE HOSE BARB	TUBING SIZE	1/8" ID*	3.2mm ID*	NS4D22002	NS4D22004	A	B		
	METRIC EQ.	1/4" ID	6.4mm ID					.96	1.73
		3/8" ID	9.5mm ID					.96	1.98
TERMINATION PANEL MOUNT FERRULESS POLYTUBE FITTING, PTF†	TUBING SIZE	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	NS4D40004	NS4D40006	A	B		
	METRIC EQ.	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID					1.17	2.30
								1.17	2.43
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE	1/8" ID*	3.2mm ID*	NS4D42002	NS4D42004	A	B		
	METRIC EQ.	1/4" ID	6.4mm ID					1.17	2.07
		3/8" ID	9.5mm ID					1.17	2.32

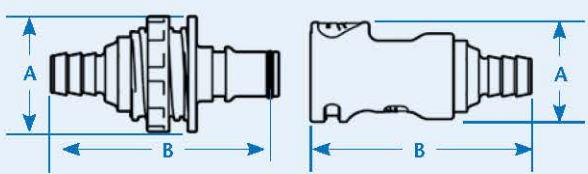
## Accessories

### PANEL MOUNT GASKET

For sealing panel mount inserts listed above

**MATERIAL**  
EPDM  
FKM

**PART NO.**  
1879800  
1889500



A = Height/Diameter B = Total Length (including valve)

## Product Dimensions



COUPLING INSERTS see drawing .25 .03

## SMART COUPLINGS WITH RFID



### Coupling Reader POLYPROPYLENE Coupling Inserts

TERMINATION IN-LINE HOSE BARB	TUBING SIZE	METRIC EQ.	SHUTOFF	TERMINATION IN-LINE HOSE BARB	TUBING SIZE	METRIC EQ.	SHUTOFF

NOTE: RFID specifications are located on page 35.

For Product Dimensions Visit [www.colder.com](http://www.colder.com)

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. \*NOTE: Patented 1/8" ID (3.2mm) hose barb connection has a support shroud allowing a maximum tube OD of 1/4" (6.4mm).

**Call toll free 1-800-444-2474 or visit us at [www.colder.com](http://www.colder.com)**

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