



**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

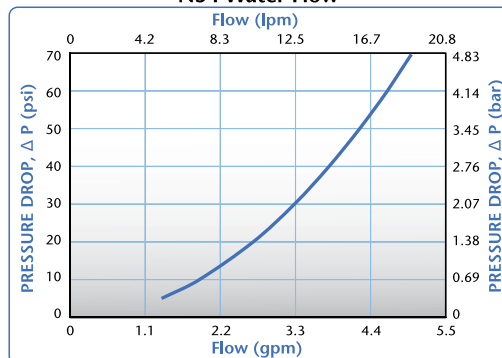
**Lubricants:** Krytox® PFPE (inert)

**Spillage:** <0.10 cc/disconnect

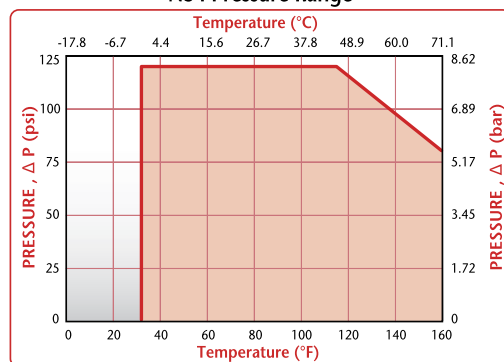
\*The overmold material TPV (thermoplastic vulcanizate) is used with the NS4 polypropylene couplings. TPV is an alloy of polypropylene thermoplastic and fully vulcanized EPDM rubber. TPV is typically resistant to water, acids and bases. The overmold material TPE (thermoplastic elastomer) is used with 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.

NS4 Water Flow



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.

|                         | PANEL<br>OPENING          | MAX. PANEL<br>THICKNESS | MIN. PANEL<br>THICKNESS |
|-------------------------|---------------------------|-------------------------|-------------------------|
| <b>COUPLING INSERTS</b> | see drawing<br>on page 53 | .25                     | .03                     |

## Product Dimensions (see page 53)






### Coupling Bodies

## POLYPROPYLENE / ABS

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

### Coupling Inserts

## POLYPROPYLENE / ABS

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

### Accessories

|                               |  |                                |                                       |
|-------------------------------|--|--------------------------------|---------------------------------------|
| <b>PANEL MOUNT<br/>GASKET</b> | For sealing panel mount inserts listed above | <b>MATERIAL</b><br>EPDM<br>FKM | <b>PART NO.</b><br>1879800<br>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: 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).



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

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