



**The NS2 Series couplings** were built on the company's proven platform of non-spill valves designed to provide fast, safe and virtually leak-free fluid line connections. The NS2 offers an easy, twist-to-connect coupling with an integrated locking mechanism and double-sided non-spill shutoff valves. The NS2 is also chemically resistant making it ideal for a diverse range of applications.

**Features**

- Efficient, non-spill design
- Twist-to-connect locking
- High flow in a compact design
- Ultra low air inclusion

**Benefits**

- Disconnect under pressure with no spills
- Easy, non-spill connections in tight spaces
- Small coupling replaces a larger connector
- Minimizes contaminants, reduces the need to purge lines

**Specifications**

**Pressure:** Vacuum to 45 psi, 3.1 bar

**Temperature:** 32°F to 120°F (0°C to 49°C)

**Materials:**

**Main components and valves:** Glass-filled polypropylene

**Valve spring:** 316 stainless steel

**Seal material:** TPV\*

**Color:** Gray with dark gray accent standard

**Tubing Sizes:**

1/8" to 1/4" ID, 3.2mm to 6.4mm ID

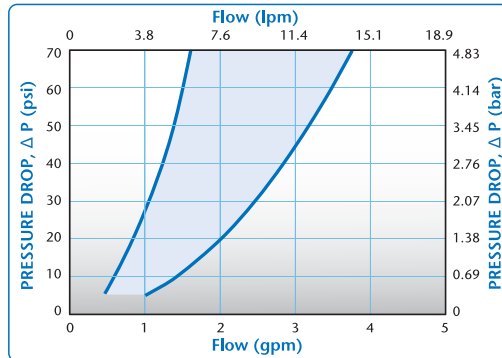
**Spillage:** <0.025 cc/disconnect

**Inclusion:** 0.009 cc/connect

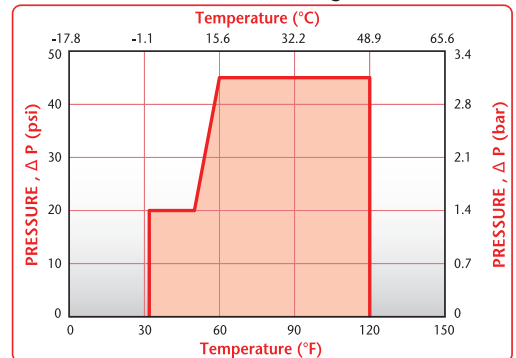
\*The overmold material is known as TPV (thermoplastic vulcanizate). This TPV is an alloy of polypropylene thermoplastic and fully vulcanized EPDM rubber. The material is typically resistant to water, acids and bases.

**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder's products in their own application conditions.

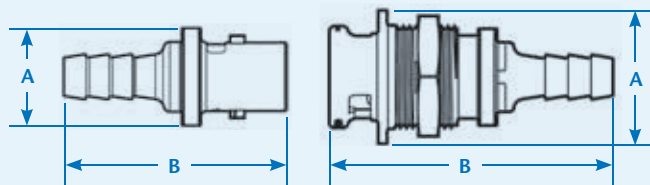
**NS2 Water Flow**



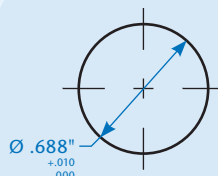
**NS2 Pressure Range**



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.



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



## Product Dimensions

COUPLING BODIES	PANEL OPENING	MAX. PANEL THICKNESS	MIN. PANEL THICKNESS
	see drawing	.34	.035

## Coupling Bodies

### POLYPROPYLENE

TERMINATION	THREAD		SHUTOFF	A	B
IN-LINE PIPE THREAD	1/8" NPT		NS2D1002	.67	1.62
IN-LINE FERRULESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17 ID	METRIC EQ. 6.4mm OD, 4.3mm ID	NS2D1304	.67	1.74
IN-LINE HOSE BARB	TUBING SIZE 1/8" ID 1/4" ID	METRIC EQ. 3.2mm ID 6.4mm ID	NS2D1702 NS2D1704	.67	1.74
PANEL MOUNT FERRULESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17 ID	METRIC EQ. 6.4mm OD, 4.3mm ID	NS2D1204	.88	1.73
PANEL MOUNT HOSE BARB	TUBING SIZE 1/8" ID 1/4" ID	METRIC EQ. 3.2mm ID 6.4mm ID	NS2D1602 NS2D1604	.88	1.66 1.86

## Coupling Inserts

### POLYPROPYLENE

TERMINATION	THREAD		SHUTOFF	A	B
IN-LINE PIPE THREAD	1/8" NPT		NS2D2402	.64	1.20
IN-LINE FERRULESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17 ID	METRIC EQ. 6.4mm OD, 4.3mm ID	NS2D2004	.64	1.32
IN-LINE HOSE BARB	TUBING SIZE 1/8" ID 1/4" ID	METRIC EQ. 3.2mm ID 6.4mm ID	NS2D2202 NS2D2204	.64	1.25 1.45

## Accessories

PANEL MOUNT GASKET REPLACEMENT	MATERIAL	PART NO.
For sealing panel mount bodies listed above	Buna-N	1830300



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.

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

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