



Actual Size

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)

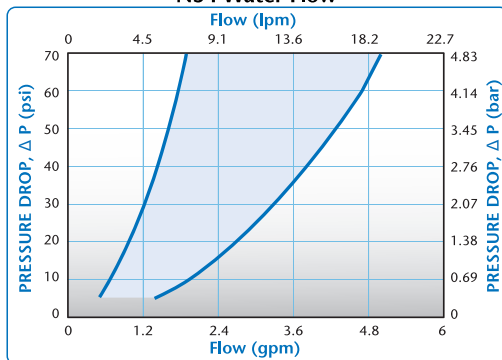
Spillage:

<0.10 cc/disconnect

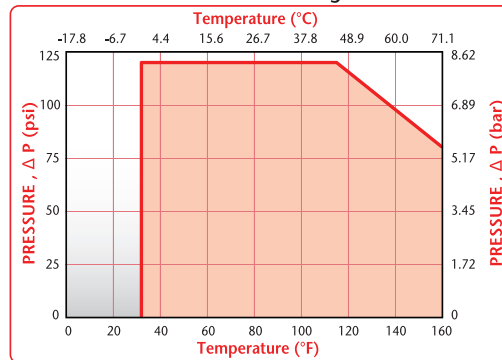
*The overmold material TPV (thermoplastic vulcanizate) is used with the NS4 polypropylene couplings. TPV is an alloy of polypropylene thermoplastic and fully vulcanized EPDM rubber. TPV is typically resistant to water, acids and bases. The overmold material TPE (thermoplastic elastomer) is used with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

NS4 Water Flow

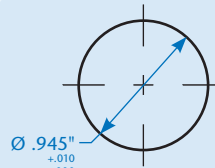
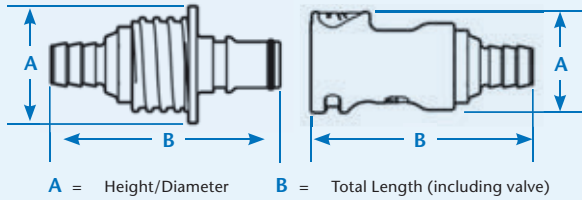


NS4 Pressure Range



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.

Product Dimensions



COUPLING INSERTS

PANEL OPENING
see drawing

MAX. PANEL THICKNESS
.25

MIN. PANEL THICKNESS
.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†	1/4" OD, .17" ID	METRIC EQ. 6.4mm OD, 4.3mm ID	NS4D13004	NS4D1300606	1.05	2.32
	3/8" OD, 1/4" ID	METRIC EQ. 9.5mm OD, 6.4mm ID	NS4D13006		1.05	2.45
IN-LINE HOSE BARB	1/8" ID*	METRIC EQ. 3.2mm ID*	NS4D17002	NS4D1700206	1.05	2.09
	1/4" ID	METRIC EQ. 6.4mm ID	NS4D17004	NS4D1700406	1.05	2.34
	3/8" ID	METRIC EQ. 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†	1/4" OD, .17" ID	METRIC EQ. 6.4mm OD, 4.3mm ID	NS4D20004	NS4D2000606	.96	1.95
	3/8" OD, 1/4" ID	METRIC EQ. 9.5mm OD, 6.4mm ID	NS4D20006		.96	2.09
IN-LINE HOSE BARB	1/8" ID*	METRIC EQ. 3.2mm ID*	NS4D22002	NS4D2200206	.96	1.73
	1/4" ID	METRIC EQ. 6.4mm ID	NS4D22004	NS4D2200406	.96	1.98
	3/8" ID	METRIC EQ. 9.5mm ID	NS4D22006	NS4D2200606	.96	1.98
PANEL MOUNT FERRULESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	METRIC EQ. 6.4mm OD, 4.3mm ID	NS4D40004	NS4D4000606	1.17	2.30
	3/8" OD, 1/4" ID	METRIC EQ. 9.5mm OD, 6.4mm ID	NS4D40006		1.17	2.43
PANEL MOUNT HOSE BARB	1/8" ID*	METRIC EQ. 3.2mm ID*	NS4D42002	NS4D4200206	1.17	2.07
	1/4" ID	METRIC EQ. 6.4mm ID	NS4D42004	NS4D4200406	1.17	2.32
	3/8" ID	METRIC EQ. 9.5mm ID	NS4D42006	NS4D4200606	1.17	2.32

Accessories



PANEL MOUNT GASKET

For sealing panel mount inserts listed above

MATERIAL
EPDM
FKM

PART NO.
1879800
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).



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