

# NSH SERIES

## Non-Spill, High Flow, Polypropylene Quick Disconnect Couplings

U.S. Patent No. 6024124, 6082401, 6161578, 357307

CPC®'s patented NSH Series quick disconnect couplings feature a pressure-balanced non-spill design, and a 100% metal-free, spring-free flow path at a very competitive price. You can depend on these innovative couplings for ease-of-use, high flow capacity and single-handed operation. The NSH Series non-spill design virtually eliminates spills, minimizes downtime and enhances operator safety.

The NSH Series is based on the award winning ChemQuik™ CQN Series high purity couplings. CPC also offers over 1000 off-the-shelf products in many designs and materials, with additional custom solutions to meet your exact needs.



### FEATURES

### BENEFITS

All-plastic 100% metal-free and spring-free flow path	High flow, low turbulence, and no corrosion.
Patented non-spill design	Fluid lines can be instantly disconnected under pressure and hazardous spills are virtually eliminated.
Large flow capacity (~3.0 Cv )	High flow and low turbulence all in a compact package.
Easy-to-use thumb latch	Single-hand connect/disconnect of fluid lines is no longer a problem.
Glass-filled polypropylene	Durable and compatible with many chemicals.
EPDM seals; FKM seal options	Compatible with many chemicals.
In-line and panel mount versions	Flexibility in system design.
Vibration-resistant panel mount adapter	A separate panel mount adapter can attach to bodies and/or inserts. Reduces inventory, and can be field installed. Special design reduces loosening through vibration.
Color-coding	Reduce accidents from incorrect connections.
High value/low cost	Bulky, spill-prone valves and fittings can be eliminated, reducing system size and cost.

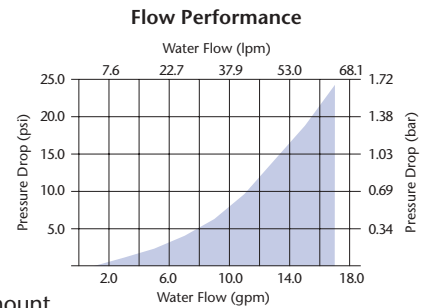
### Chemical Fluid Applications:

- Industrial laundry
- Battery filling
- DI / Ultra pure water
- Dry cleaning equipment
- Photographic chemical transfer
- Waste drain lines
- Chemical plants
- Portable chemical carts
- CDA or nitrogen lines
- Plating equipment
- IBC (tote) connections
- Manual bottle filling
- Chemical delivery systems
- Fuel cells
- Laboratory uses
- Agricultural chemical transfer

# NSH Series Specifications

**Operating Pressure:** Vacuum to 120 psi, 8.3 bar  
**Operating Temperature:** 32° to 120°F/0° to 49°C  
**Flow Capacity:** Cv + 3.0 (see graph)  
**Spillage:** < 0.10 cc/disconnect  
**Materials:**  
**Main Components:** Polypropylene, glass-filled polypropylene

**O-ring Seals:** EPDM  
**Panel Mount Seal:** EPDM  
**Optional Seal Materials:** FKM  
**Springs (not in flow path):** 316 Stainless Steel  
**Lubricants:** Krytox® PFPE (inert)  
**Panel Mount Nut:** HDPE  
**Panel Mount Adapter:** HDPE  
**Mounting & Terminations:** In-line and sealing panel mount  
**Terminations:** 3/8", 1/2" OD compression, 3/8", 1/2" ID hose barb, 1/2" male and 3/8" female NPT thread, 3/8" male BSPT thread





Contact the factory for red or blue color-coded NSH couplings.


Contact CPC today for your free catalog, or your local distributor by calling toll-free 1-800-444-2474.

All measurements are in inches unless otherwise noted.

## NSH Polypro Series Couplings

	TUBING SIZE	TERMINATION TYPE	PART NO.	LENGTH
<b>Coupling Bodies</b> <i>In-Line</i> 	3/8" OD	Compression	NSHD13006	3.97
	1/2" OD	Compression	NSHD13008	4.10
	3/8" ID	Hose Barb	NSHD17006	3.73
	1/2" ID	Hose Barb	NSHD17008	3.73
	1/2" NPT	Male NPT Thread	NSHD10008	3.81
	3/8" NPT	Female NPT Thread	NSHD19006	3.70
	3/8" BSPT	Male BSPT Thread	NSHD10006BSPT	3.67

	TUBING SIZE	TERMINATION TYPE	PART NO.	LENGTH
<b>Coupling Inserts</b> <i>In-Line</i> 	3/8" OD	Compression	NSHD20006	4.14
	1/2" OD	Compression	NSHD20008	4.27
	3/8" ID	Hose Barb	NSHD22006	3.90
	1/2" ID	Hose Barb	NSHD22008	3.90
	1/2" NPT	Male NPT Thread	NSHD24008	3.98
	3/8" NPT	Female NPT Thread	NSHD26006	3.87
	3/8" BSPT	Male BSPT Thread	NSHD24006BSPT	3.84

<b>Accessories</b>			PART NO.	
	Panel Mount Kit	With Panel Seal	NSH PMKIT 12	
	Dust Plug/Cap	For Body or Insert	1800700	

(panel mount kit can be used with body or insert above)  
 A 2.00 inch (50.8mm) hole must be bored in the panel/container. Maximum panel thickness is .50 inch (12.7mm). Minimum panel thickness is .12 inch (3.1mm).

**WARNING:** Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of CPC. It is the user's responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

**WARRANTY:** All sales are subject to Colder Products Company's limited express warranty set forth in the CPC catalog. Contact your local distributor or CPC Customer Service for warranty provisions.



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