



NDL Industries

# Hydronic Product Guide

High-Quality Components for Commercial,  
Industrial, and Residential Applications





# Maximize Performance

NDL offers a range of hydronic products, including reliable copper press fittings, hydronic ball valves, and low-pressure valves. Designed for efficiency and durability, our products meet the demands of modern plumbing systems.

## Hydronics

### Copper Press Fittings

NDL's Copper Press Fittings provide superior fit and finish. Manufactured to be used for potable water, hydronic heating (with glycol), chilled water, compressed air, non-medical gases, and low-pressure steam. A zero-reported failure rate combined with a leak detection commercial-grade EPDM O-ring that instantly identifies unpressed connections. Our copper press fittings are engineered to be compatible with all VUS profile jaws and are stamped with size for easy identification. Ranging from sizes 1/2" to 4", small quantities of individual items are available and can be packaged together in one order without meeting high minimums in any category. Compatible for use on all ASTM B88 K, L, and M hard-drawn copper tubing.



### Operating Parameters

WORKING PRESSURE	200 PSI
MAXIMUM TEST PRESSURE	600 PSI
LOW-PRESSURE STEAM	15 PSI
WORKING TEMPERATURE	0°F to 250°F (-18°C to 121°C)
VACUUM	29.2" Mercury at 68°F (20°C)

### Certifications and Approvals

MATERIALS	ASME/ASTM B42 C12200 (99.9% cu)
DIMENSIONS	IAPMO PS 117-2016
THREADS	ASME/ASTM B1.20.1
DRINKING WATER	NSF/ANSI STANDARD 61 - 372 (Lead-Free)
OTHER	ISO9001, ISO14001



See a Full List of our  
Hydronic Products at  
[ndlinc.com](http://ndlinc.com).

## Gas Shut Off Valves

NDL's Gas Shut Off Valves are engineered with a quarter-turn handle and a compact forged brass body design that allows for quick and easy residential or commercial installations. Our gas ball valves feature PTFE seats and NBR O-rings to reduce contamination buildup and have a working pressure of 0.5 psi.

*ASME Z21.15 and CSA 9.1 approved at 0.5 psi; ASME B16.44 and CR 91-002 approved at 5 psi; ASME B16.33 and CGA 3.16 approved, and CSA 175 at 175 psi; UL at 250 psi*



## Low-Pressure Boiler Drains/Hose Bibs

NDL's Low-Pressure Boiler Drains/Hose Bibs are designed with PTFE gland packing and an NBR seat. Offered in both a cast brass body and lead-free cast brass body, it is available in a convenient quarter-turn or traditional multi-turn configuration with cold working pressure (CWP) at 125 psi. MNPT x MALE hose connection.

*CSA; cUPC; ANSI B1.20.1, and ANSI B1.20.7 certified; NSF 61 and 372*



## Copper Press Ball Valves

NDL's superior quality Copper Press Ball Valves feature a C46500 lead-free, forged-brass body designed with commercial-grade EPDM O-rings at the sockets, commercial-grade NBR O-ring at the stem, and a 304 stainless steel ball. Handles are made from zinc-plated steel and feature a vinyl grip. Our copper press ball valves are engineered to be compatible with all VUS profile jaws and have a cold working pressure (CWP) at 250 psi. NDL's press ball valves are used on all ASME/ASTM B88 K, L, and M hard-drawn copper tubing.

*ANSI/NSF 61  
and 372 certified*



## Sweat and Threaded Ball Valves

NDL's Sweat and NPT (Threaded) Ball Valves are available in lead-free brass bodies. They feature blowout-proof stems, and dual PTFE (Teflon) packing with EPDM O-rings. Handles are made from zinc-plated steel with a vinyl grip. Cold working pressure (CWP) at 600 psi non-shock, working steam pressure (WSP) at 150 psi non-shock.

*ANSI/NSF 61 and 372 certified*





# Versatility at Its Best

NDL offers a range of versatile flexible gas connectors, PVC fittings, black malleable fittings, and black steel nipples. Built for strength and adaptability, they ensure reliable performance across both Hydronic and HVAC-R systems.

## Universal

### Flexible Gas Connectors

NDL's Flexible Gas Connectors are engineered with corrosion-resistant stainless steel 304 tubing and zinc-plated steel fittings that provide 100% quality you can trust. The gas connector's safeguard yellow epoxy coating protects from corrosion, and chemical stains from household products, and plumbing repair products. Our gas connectors also feature interchangeable fittings for any application and are flexible enough to withstand 90-degree twists without loss of flow. Applications for our gas connectors are gas appliances (furnaces, water heaters, stoves, ovens, fireplaces) to the gas sources. Available in sizes from ID 1/4" to 3/4" with lengths from 12" to 72", FPT, FIP, MPT, and MIP end connections. Optional gas valve available.

### Certifications and Approvals

CONNECTORS FOR GAS APPLIANCES	ANSI Z 21.24 / CSA 6.10
MOVABLE GAS APPLIANCES	ANSI Z 21.69 / CSA 6.16
CONNECTORS FOR OUTDOOR APPLICANES AND MANUFACTURED HOMES	ANSI Z 21.75 / CSA 6.27
NATURAL GAS AND PROPANE INSTALLATION CODE (CSA GROUP) SECTION 6.21	B149.1
STATIONARY ENGINE GENERATOR ASSEMBLIES SECTION 66B VIBRATION TEST	UL2200-2015
UNIFORM MECHANICAL CODE (UMC) SECTION 1313.0 UNIFORM PLUMBING CODE (UPC) SECTION 1212.0	





See a Full List of our  
Universal Products at  
[ndlinc.com](http://ndlinc.com).

## Black Malleable Fittings

NDL's high-quality Class 150 Black Malleable Fittings include hex bushings, caps, couplings, crosses, elbows, floor flanges, lock nuts, plugs, tees, and unions. Designed for oil and gas fluid applications, available for servicing of 150 PSI and 300 PSI applications. Typically used in high-pressure applications such as gas lines, steam lines, and water lines. Also used in applications where pipes are exposed to corrosive elements, such as industrial settings. Often used in conjunction with black pipes, which are also made of black steel. Black coating on both the pipe and the fittings helps protect them from rust and corrosion. Fittings range in diameter from 1/8" to 4".

*AMSE B16.3 and B16.14, NSF 61 and 372; Unions: UL Listed B16.39, ASME B1.20.1, ISO; cUL; FM; CRN Approved*



## Black Steel Nipples

NDL's black welded carbon steel schedule 40 nipples are also available ranging in 15 diameters from 1/8" to 6" - all different lengths ranging from close up to 72". Our ready-cut (pre-cut) Nipples are available in black welded carbon steel schedule 40 pipes ranging from 1/2" to 2" diameter and in lengths from 18" to 72". Both our fittings and nipples are produced to meet or exceed all specifications and undergo rigorous testing and quality inspections before being sent out.

*Schedule 40 Steel  
Nipples: AMSE, A733;  
Threads: ASME B1.20.1, NSF  
61 and 372, CRN Approved*



## PVC DWV Fittings

NDL's PVC DWV Fittings offer outstanding rigidity with excellent resistance to chemicals and corrosion. Our fittings have smooth interior walls to prevent scaling and ensure free flow. Consistent quality and dimensional integrity help to ensure a perfect fit with every single piece. Packaged in standard quantities. Available in diameters from 1-1/4" - 6".

*ASTM standards D2665, D3311, F1498, D1784; NSF and IAPMO Approved*



## PVC SCH40 Fittings

At NDL all our Schedule 40 PVC Plastic Fittings are designed for most industrial and residential needs. Renowned for strength and superior enhanced performance, our pressure plastic fittings are tested under real-world "cyclic" pressure conditions. In addition to our superior strength, our pressure plastic fittings offer smoother inner walls for low-pressure drops and excellent resistance to chemicals and corrosion. Available in diameters from 1/2" - 6".

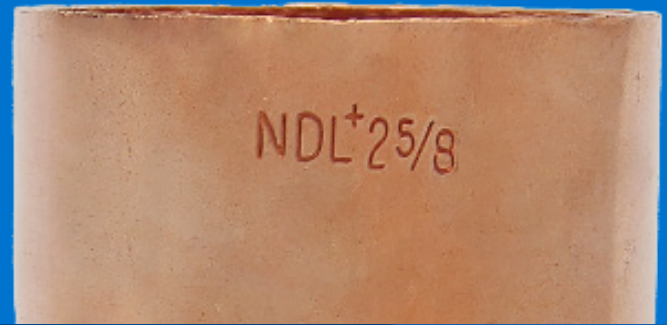
*ASTM standards D2466, D1784,  
F1498; NSF/ANSI standards  
14 and 61*





## QUALITY STAMP

Only after our products pass strict and rigorous quality tests will the NDL name be stamped on them. The NDL Quality Stamp is our seal of approval that our products can be trusted in the field.



## We Focus on Quality and Service So You Can Install with Confidence.

Since 1998, our mission has been to stay ahead of the curve as an industry leader in the HVAC, Refrigeration, and Hydronic markets. We have achieved this over the years by heavily emphasizing quality, and innovation, and maintaining a global team of experienced professionals to deliver top-notch service. We continue to hold ourselves to the highest standards, never sacrificing our commitment to our customers or our product that has made us the company we are today.

*What you can expect from us:*

- Fast order turnaround
- Real-time order communications
- Field-experienced sales and technical support
- Parts packaged in contractor-friendly sized bags
- High-quality control standards for superior fit and finish



## Global Team with Fast Order Turnaround

With distribution centers strategically located worldwide, we ensure fast order fulfillment while maintaining the exceptional customer service that has earned us our trusted reputation.

*Locations:*

- Southaven, Mississippi (United States)
- Vancouver, British Columbia (Canada)
- Milton Keynes, Buckinghamshire (Europe)



Explore our full line of high-quality HVAC-R, CO<sub>2</sub> Refrigeration, and Hydronic products.

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