



NDL Industries

# Hydronic Valves Product Guide

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





# Hydronic Valves

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# Hydronic Valves

## Revolutionary Valve Solutions Setting New Standards in Performance and Efficiency

- Boiler Drain Valves and Quarter Turn Boiler Drain Valves are multi-purpose valves pressure.
- Gas Shut Off Valves feature PTFE seats and NBR O-Rings to reduce contamination buildup.
- Ball Valves have a lead-free, full port forged brass body, while Leaded Ball Valves have a leaded brass body.
- Ball Valves have a packing gland and O-ring on stem for reliable seal.

## Certifications and Approvals

- ANSI B1.20.01 - Gas Shut Off Valves, Boiler Drain Valves, and Quarter Turn Boiler Valves
- ANSI B1.20.07 - Boiler Drain Valves, and Quarter Turn Boiler Valves
- ASME B16.51 - Water Press Ball Valves
- ASME B16.18/ASME B1.20.1 - Leaded Water Sweat Ball Valves
- ASME A112.18.1/CSA B125.1 - Boiler Drain Valves, and Quarter Turn Boiler Valves
- CSA Approved - Water Sweat Ball Valves, Water Sweat Ball Valves, Gas Shut Off Valves
- cUPC - Water Press Ball Valves, Water Sweat Ball Valves, Water Sweat Ball Valves with Drain, Boiler Drain Valves, and Quarter Turn Boiler Valves
- FM Approved - Water Sweat Ball Valves, Water Sweat Ball Valves with Drain
- UL Certified - Water Sweat Ball Valves, Water Sweat Ball Valves with Drain
- NSF61 Approved, and conform to NSF372





# Hydronic Valves

## Working Pressures and Temperatures

- Maximum Working Pressure: 125 PSI/Maximum Temperature: 150.80°F (66°C) - Boiler Drain Valves, and Quarter Turn Boiler Valves
- Maximum Working Pressure: 250 PSI/Maximum Temperature: 203°F (95°C) - Gas Shutoff Valves, and Water Press Ball Valves
- Maximum Working Pressure: 600 PSI/Working Temperature: 20 to 300 °F (-28 to 148 °C). - Water Sweat Ball Valves, Water Sweat Ball Valves with Drain, Water Threaded Ball Valves, and Water Threaded Ball Valves with Drain

## Symbols

**FIP** Female Thread NPT

**Flare** Thread fitting





**Boiler Drain Valves**

| PART #  | OD - DESCRIPTION  | BOX QTY | WT (LB) | WT (G) |
|---------|-------------------|---------|---------|--------|
| NBD-012 | 1/2" Boiler Drain | 10      | 0.428   | 194.1  |
| NBD-034 | 3/4" Boiler Drain | 10      | 0.472   | 214.1  |

**Leaded Boiler Drain Valves**

| PART #    | OD - DESCRIPTION         | BOX QTY | WT (LB) | WT (G) |
|-----------|--------------------------|---------|---------|--------|
| NBD-012-L | 1/2" Leaded Boiler Drain | 10      | 0.428   | 194.1  |
| NBD-034-L | 3/4" Leaded Boiler Drain | 10      | 0.472   | 214.1  |



**Quarter Turn Boiler Drain Valves**

| PART #  | OD - DESCRIPTION               | BOX QTY | WT (LB) | WT (G) |
|---------|--------------------------------|---------|---------|--------|
| NBQ-012 | 1/2" Quarter Turn Boiler Drain | 10      | 0.403   | 182.8  |
| NBQ-034 | 3/4" Quarter Turn Boiler Drain | 10      | 0.575   | 260.8  |

**Leaded Quarter Turn Boiler Drain Valves**

| PART #    | OD - DESCRIPTION                      | BOX QTY | WT (LB) | WT (G) |
|-----------|---------------------------------------|---------|---------|--------|
| NBQ-012-L | 1/2" Leaded Quarter Turn Boiler Drain | 10      | 0.403   | 182.8  |
| NBQ-034-L | 3/4" Leaded Quarter Turn Boiler Drain | 10      | 0.575   | 260.8  |



**Gas Ball Valves**

| PART #   | OD - DESCRIPTION  | BOX QTY | WT (LB) | WT (G) |
|----------|-------------------|---------|---------|--------|
| G01-2801 | 1" Gas Ball Valve | 0       | 0.761   | 345.2  |

**Straight Gas Shut Off Valves (FIP x FIP)**

| PART #   | OD - DESCRIPTION                    | BOX QTY | WT (LB) | WT (G) |
|----------|-------------------------------------|---------|---------|--------|
| G01-2806 | 3/8" x 3/8" Str. Gas Shut Off Valve | EA      | 0.258   | 117.0  |
| G01-2808 | 1/2" x 1/2" Str. Gas Shut Off Valve | 10      | 0.331   | 150.1  |
| G01-2812 | 3/4" x 3/4" Str. Gas Shut Off Valve | 10      | 0.481   | 218.2  |





### Straight Gas Shut Off Valves (Flare x FIP)

| PART #  | OD - DESCRIPTION                            | BOX QTY | WT (LB) | WT (G) |
|---------|---|---------|---------|--------|
| G01-387 | 3/8" x 1/2" Str. Gas Shut Off Valve         | EA      | 0.32    | 145.1  |
| G01-487 | 1/2" x 1/2" Str. Gas Shut Off Valve         | EA      | 0.353   | 160.1  |
| G01-537 | 1/2" x 3/4" Str. Gas Shut Off Valve         | EA      | 0.481   | 218.2  |
| G01-587 | 5/8" (15/16) x 1/2" Str. Gas Shut Off Valve | EA      | 0.388   | 176.0  |
| G01-687 | 5/8" (15/16) x 3/4" Str. Gas Shut Off Valve | EA      | 0.527   | 239.0  |

### Angled Gas Shut Off Valves (Flare x FIP)

| PART #   | OD - DESCRIPTION                              | BOX QTY | WT (LB) | WT (G) |
|----------|---|---------|---------|--------|
| G01-380G | 3/8" x 1/2" Angled Gas Shut Off Valve         | EA      | 1.003   | 455.0  |
| G01-480G | 1/2" x 1/2" Angled Gas Shut Off Valve         | EA      | 0.388   | 176.0  |
| G01-680G | 5/8" (15/16) x 3/4" Angled Gas Shut Off Valve | EA      | 0.598   | 271.2  |



### One Piece Valve Bodies (FIP x FIP)

| PART #       | OD - DESCRIPTION          | BOX QTY | WT (LB) | WT (G) |
|--------------|---------------------------|---------|---------|--------|
| G01-2802-1PC | 1" One Piece Valve Body   | EA      | 1.003   | 455.0  |
| G01-2809-1PC | 1/2" One Piece Valve Body | EA      | 0.388   | 176.0  |
| G01-2813-1PC | 3/4" One Piece Valve Body | EA      | 0.598   | 271.2  |



### Water Press Ball Valves

| PART #  | OD - DESCRIPTION              | BOX QTY | WT (LB) | WT (G) |
|---------|-------------------------------|---------|---------|--------|
| NPV-012 | 1/2" Water Press Ball Valve   | 10      | 0.47    | 213.2  |
| NPV-034 | 3/4" Water Press Ball Valve   | 10      | 0.807   | 366.0  |
| NPV-100 | 1" Water Press Ball Valve     | 8       | 1.142   | 518.0  |
| NPV-114 | 1-1/4" Water Press Ball Valve | 4       | 1.669   | 757.0  |
| NPV-112 | 1-1/2" Water Press Ball Valve | 2       | 2.582   | 1171.2 |
| NPV-200 | 2" Water Press Ball Valve     | 2       | 3.585   | 1626.1 |
| NPV-212 | 2-1/2" Water Press Ball Valve | EA      | 7.915   | 3590.2 |
| NPV-300 | 3" Water Press Ball Valve     | EA      | 10.203  | 4628.0 |
| NPV-400 | 4" Water Press Ball Valve     | EA      | 18.153  | 8234.1 |



### Water Sweat Ball Valves

| PART #  | OD - DESCRIPTION              | BOX QTY | WT (LB) | WT (G) |
|---------|-------------------------------|---------|---------|--------|
| NSV-012 | 1/2" Water Sweat Ball Valve   | 10      | 0.417   | 189.1  |
| NSV-034 | 3/4" Water Sweat Ball Valve   | 10      | 0.683   | 309.8  |
| NSV-100 | 1" Water Sweat Ball Valve     | 8       | 1.071   | 485.8  |
| NSV-114 | 1-1/4" Water Sweat Ball Valve | 4       | 1.585   | 718.9  |
| NSV-112 | 1-1/2" Water Sweat Ball Valve | 2       | 2.28    | 1034.2 |
| NSV-200 | 2" Water Sweat Ball Valve     | 2       | 3.596   | 1631.1 |
| NSV-212 | 2-1/2" Water Sweat Ball Valve | EA      | 6.98    | 3166.1 |
| NSV-300 | 3" Water Sweat Ball Valve     | EA      | 8.856   | 4017.0 |
| NSV-400 | 4" Water Sweat Ball Valve     | EA      | 17.531  | 7951.9 |

### Water Sweat Ball Valves with Drain

| PART #  | OD - DESCRIPTION                       | BOX QTY | WT (LB) | WT (G) |
|---------|--|---------|---------|--------|
| NWD-012 | 1/2" Water Sweat Ball Valve with Drain | 10      | 0.439   | 199.1  |
| NWD-034 | 3/4" Water Sweat Ball Valve with Drain | 10      | 0.717   | 325.2  |



### Water Threaded Ball Valves

| PART #  | OD - DESCRIPTION                 | BOX QTY | WT (LB) | WT (G) |
|---------|----------------------------------|---------|---------|--------|
| NPS-038 | 3/8" Water Threaded Ball Valve   | 10      | 0.311   | 141.1  |
| NPS-012 | 1/2" Water Threaded Ball Valve   | 10      | 0.47    | 213.2  |
| NPS-034 | 3/4" Water Threaded Ball Valve   | 10      | 0.758   | 343.8  |
| NPS-100 | 1" Water Threaded Ball Valve     | 8       | 1.153   | 523.0  |
| NPS-114 | 1-1/4" Water Threaded Ball Valve | 4       | 1.768   | 802.0  |
| NPS-112 | 1-1/2" Water Threaded Ball Valve | 2       | 2.381   | 1080.0 |
| NPS-200 | 2" Water Threaded Ball Valve     | 2       | 3.499   | 1587.1 |
| NPS-212 | 2-1/2" Water Threaded Ball Valve | EA      | 7.295   | 3309.0 |
| NPS-300 | 3" Water Threaded Ball Valve     | EA      | 9.749   | 4422.1 |
| NPS-400 | 4" Water Threaded Ball Valve     | EA      | 18.325  | 8312.1 |





**Water Sweat Ball Valves with Drain**

| PART #  | OD - DESCRIPTION                          | BOX QTY | WT (LB) | WT (G) |
|---------|---|---------|---------|--------|
| NTD-012 | 1/2" Water Threaded Ball Valve with Drain | 10      | 0.507   | 230.0  |
| NTD-034 | 3/4" Water Threaded Ball Valve with Drain | 10      | 0.787   | 357.0  |

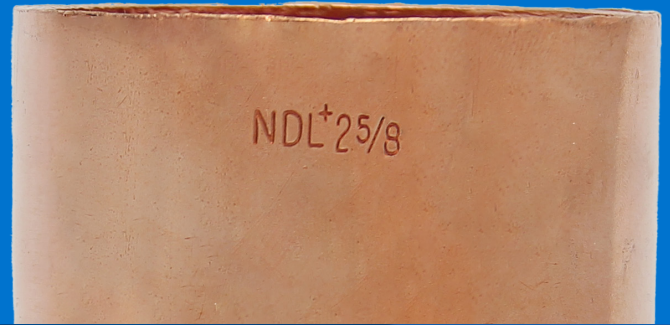






## QUALITY STAMP

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, 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 the quality of our products or the commitment to our customers 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)



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