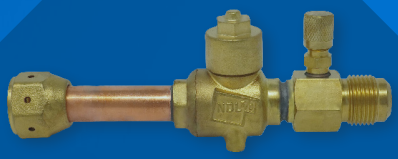
NDL Industries

Refrigeration Ball Valves
Product Guide

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



NDL Industries

Refrigeration Ball Valves

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NDL Industries

Refrigeration Ball Valves

Innovative Refrigeration Products with High-Quality Performance

- Heavy-duty, full-port, bi-directional ball valves built to last with 900 PSIG maximum working pressure on sizes up to 7/8".
- Reduce service calls, refrigerant loss, and contamination with our cone-shaped 100% virgin Teflon seals and seats.
- Testing with 95% nitrogen and 5% hydrogen solution at 450 PSIG to detect and correct any leaks before the factory.
- No need to remove the cap during installation or service. Loosen the nut, turn 1/4 of the stem cap, and open the valve fully; close by turning 1/4 again. Tighten the nut and the job is complete.
- Joined together with a smooth and equal brazing process to prevent pinhole leaks.
- Internally equalized ball design.
- Compatible with CFC, HCFC, HFC, and HFO refrigerants and oils.
- Schrader valve inserted into ball valve body for durability.
- Rupture-proof encapsulated stem that is engineered from the bottom up.
- Our 2-year warranty proves confidence, along with every valve being proudly stamped with a serial number and cleanly packaged in a poly-bag to prevent contamination and malfunctions.

Certifications and Approvals

- UL/cUL 207
- CE Approved
- CRN Approved
- RoHS Compliant

Symbols

MS Male Side

FFS Female Side

2 YEAR WARRANTY

NDL Industries

Refrigeration Ball Valves

Technical Data

TEMPERATURE	-40° to 302°F (-40°C to 150°C)
BURST PRESSURE	5 times the working pressure
LEAK RATE	<0.02g/year
LIFE EXPECTANCY	>50,000 cycles

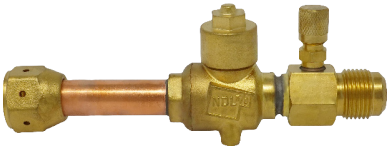
2 YEAR WARRANTY

Full Port Ball Valves with Schrader

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV02S	1/4" Full Port Ball Valve with Schrader	EA	0.463	210.0
NBV03S	3/8" Full Port Ball Valve with Schrader	EA	0.481	218.0
NBV04S	1/2" Full Port Ball Valve with Schrader	EA	0.481	218.0
NBV05S	5/8" Full Port Ball Valve with Schrader	EA	0.661	300.0
NBV06S	3/4" Full Port Ball Valve with Schrader	EA	1.113	505.0
NBV07S	7/8" Full Port Ball Valve with Schrader	EA	1.202	545.0
NBV09S	1-1/8" Full Port Ball Valve with Schrader	EA	1.940	880.0
NBV11S	1-3/8" Full Port Ball Valve with Schrader	EA	3.109	1410.0
NBV13S	1-5/8" Full Port Ball Valve with Schrader	EA	5.093	2310.0
NBV17S	2-1/8" Full Port Ball Valve with Schrader	EA	8.730	3960.0
NBV21S	2-5/8" Full Port Ball Valve with Schrader	EA	14.330	6500.0
NBV25S	3-1/8" Full Port Ball Valve with Schrader	EA	20.977	9515.0
NBV33S	4-1/8" Full Port Ball Valve with Schrader	EA	36.597	16600.0

Press Compatible Full Port Ball Valves with Schrader

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV02SZ	1/4" Press Compatible Ball Valve with Schrader	EA	0.463	210.0
NBV03SZ	3/8" Press Compatible Ball Valve with Schrader	EA	0.474	215.0
NBV04SZ	1/2" Press Compatible Ball Valve with Schrader	EA	0.496	225.0
NBV05SZ	5/8" Press Compatible Ball Valve with Schrader	EA	0.706	320.0
NBV06SZ	3/4" Press Compatible Ball Valve with Schrader	EA	0.992	450.0
NBV07SZ	7/8" Press Compatible Ball Valve with Schrader	EA	1.102	500.0
NBV09SZ	1-1/8" Press Compatible Ball Valve with Schrader	EA	1.896	860.0



Mini Split Ball Valves with Male Side Schrader

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV12MS	1/2" Mini-Split Ball Valve with Male Side Schrader	EA	0.595	270.0
NBV14MS	1/4" Mini-Split Ball Valve with Male Side Schrader	EA	0.617	280.0
NBV38MS	3/8" Mini-Split Ball Valve with Male Side Schrader	EA	0.529	240.0
NBV58MS	5/8" Mini-Split Ball Valve with Male Side Schrader	EA	0.893	405.0

Reverse Mini Split Ball Valves with Female Side Schrader

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV12MSFFS	1/2" Mini Split Ball Valve with Female Side Schrader	EA	0.628	285.0
NBV14MSFFS	1/4" Mini Split Ball Valve with Female Side Schrader	EA	0.507	230.0
NBV38MSFFS	3/8" Mini Split Ball Valve with Female Side Schrader	EA	0.595	270.0
NBV58MSFFS	5/8" Mini Split Ball Valve with Female Side Schrader	EA	0.948	430.0

Ball Valve Insulation

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBVINS	Small Ball Valve Insulation (for 1/4", 3/8", 1/2", and 5/8" Valves) - 3/4" Thickness	EA	0.062	28.0
NBVINL	Large Ball Valve Insulation (for 3/4" to 1-1/8" Valves) - 3/4" Thickness	EA	0.128	58.0
NBVINMS	Reverse Mini-Split Ball Valve Insulation (for 1/4" to 5/8" Valves)	EA	0.088	40.0

Ball Valve with Schrader Box Kits including Insulation

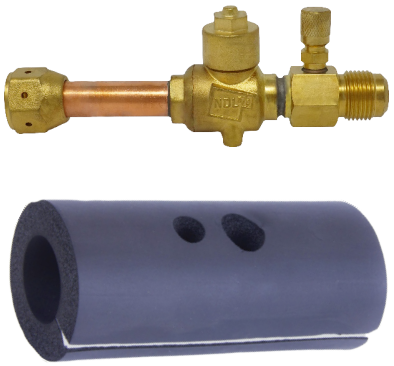
PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV02SBOX	1/4" Full Port Ball Valve with Schrader including Insulation (Box Kit)	EA	0.525	238.0
NBV03SBOX	3/8" Full Port Ball Valve with Schrader including Insulation (Box Kit)	EA	0.542	246.0
NBV04SBOX	1/2" Full Port Ball Valve with Schrader including Insulation (Box Kit)	EA	0.542	246.0
NBV05SBOX	5/8" Full Port Ball Valve with Schrader including Insulation (Box Kit)	EA	0.723	328.0

Ball Valve with Schrader Box Kits including Insulation - *Continued*

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV06SBOX	3/4" Full Port Ball Valve with Schrader including Insulation (Box Kit)	EA	1.175	533.0
NBV07SBOX	7/8" Full Port Ball Valve with Schrader including Insulation (Box Kit)	EA	1.263	573.0

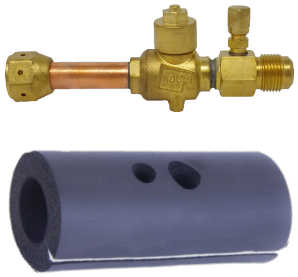
Press Compatible Ball Valve with Schrader Box Kits including Insulation

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV02SZBOX	1/4" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	0.527	239.0
NBV03SZBOX	3/8" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	0.537	243.5
NBV04SZBOX	1/2" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	0.559	253.5
NBV05SZBOX	5/8" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	0.548	248.5
NBV06SZBOX	3/4" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	1.085	492.0
NBV07SZBOX	7/8" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	1.195	542.0
NBV09SZBOX	1-1/8" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	1.989	902.0



Mini Split Ball Valve Box Kits including Insulation

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV14MSBOX	Mini-Split, Male Side Schrader incl. Insulation	EA	0.569	258.0
NBV38MSBOX	Mini-Split, Male Side Schrader incl. Insulation	EA	0.657	298.0



Mini Split Ball Valve Box Kits including Insulation - *Continued*

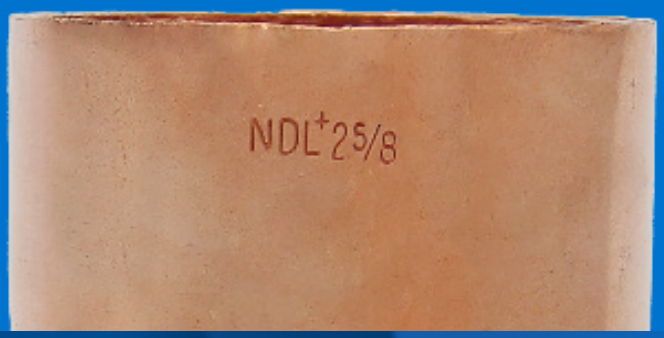
PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV12MSBOX	Mini-Split, Male Side Schrader incl. Insulation	EA	0.690	313.0
NBV58MSBOX	Mini-Split, Male Side Schrader incl. Insulation	EA	1.010	458.0

Mini Split Ball Valve Box Kits including Insulation

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV14MSFFSBOX	Mini-Split Ball Valve, Female Side Schrader	EA	-	-
NBV38MSFFSBOX	Mini-Split Ball Valve, Female Side Schrader	EA	-	-
NBV12MSFFSBOX	Mini-Split Ball Valve, Female Side Schrader	EA	-	-
NBV58MSFFSBOX	Mini-Split Ball Valve, Female Side Schrader	EA	-	-

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)

Explore our full line of high-quality HVAC-R, CO_2 Refrigeration, and Hydronic products.

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