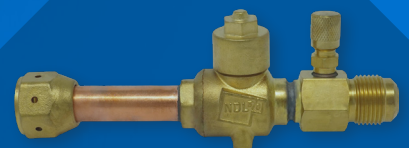
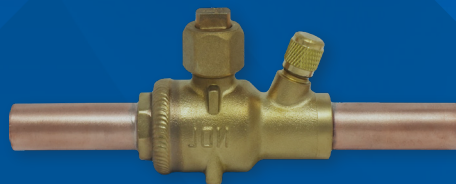




NDL Industries

# Refrigeration Ball Valves Product Guide

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





# Refrigeration Ball Valves

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# 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





# 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





### Full Port Ball Valves without Schrader

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)	MAX. WORKING PRESSURE	
					PSIG	BAR
NBV02	1/4" Full Port Ball Valve	EA	0.419	190.0	900	62
NBV03	3/8" Full Port Ball Valve	EA	0.470	213.0	900	62
NBV04	1/2" Full Port Ball Valve	EA	0.470	213.0	900	62
NBV05	5/8" Full Port Ball Valve	EA	0.650	295.0	900	62
NBV06	3/4" Full Port Ball Valve	EA	1.113	505.0	900	62
NBV07	7/8" Full Port Ball Valve	EA	1.191	540.0	900	62
NBV09	1-1/8" Full Port Ball Valve	EA	1.929	875.0	700	48
NBV11	1-3/8" Full Port Ball Valve	EA	3.098	1405.0	700	48
NBV13	1-5/8" Full Port Ball Valve	EA	5.082	2305.0	700	48
NBV17	2-1/8" Full Port Ball Valve	EA	8.664	3930.0	700	48
NBV21	2-5/8" Full Port Ball Valve	EA	14.275	6475.0	650	45
NBV25	3-1/8" Full Port Ball Valve	EA	20.988	9520.0	650	45
NBV33	4-1/8" Full Port Ball Valve	EA	36.663	16630.0	450	31





## Full Port Ball Valves with Schrader

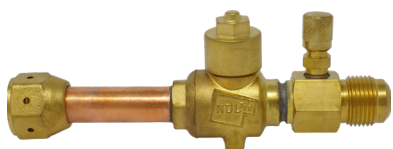
PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)	MAX. WORKING PRESSURE	
					PSIG	BAR
NBV02S	1/4" Full Port Ball Valve with Schrader	EA	0.463	210.0	900	62
NBV03S	3/8" Full Port Ball Valve with Schrader	EA	0.481	218.0	900	62
NBV04S	1/2" Full Port Ball Valve with Schrader	EA	0.481	218.0	900	62
NBV05S	5/8" Full Port Ball Valve with Schrader	EA	0.661	300.0	900	62
NBV06S	3/4" Full Port Ball Valve with Schrader	EA	1.113	505.0	900	62
NBV07S	7/8" Full Port Ball Valve with Schrader	EA	1.202	545.0	900	63
NBV09S	1-1/8" Full Port Ball Valve with Schrader	EA	1.940	880.0	700	48
NBV11S	1-3/8" Full Port Ball Valve with Schrader	EA	3.109	1410.0	700	48
NBV13S	1-5/8" Full Port Ball Valve with Schrader	EA	5.093	2310.0	700	48
NBV17S	2-1/8" Full Port Ball Valve with Schrader	EA	8.730	3960.0	700	48
NBV21S	2-5/8" Full Port Ball Valve with Schrader	EA	14.330	6500.0	650	45
NBV25S	3-1/8" Full Port Ball Valve with Schrader	EA	20.977	9515.0	650	45
NBV33S	4-1/8" Full Port Ball Valve with Schrader	EA	36.597	16600.0	450	31





### Press Compatible Full Port Ball Valves with Schrader

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)	MAX. WORKING PRESSURE	
					PSIG	BAR
NBV02SZ	1/4" Press Compatible Ball Valve with Schrader	EA	0.463	210.0	900	62
NBV03SZ	3/8" Press Compatible Ball Valve with Schrader	EA	0.474	215.0	900	62
NBV04SZ	1/2" Press Compatible Ball Valve with Schrader	EA	0.496	225.0	900	62
NBV05SZ	5/8" Press Compatible Ball Valve with Schrader	EA	0.706	320.0	900	62
NBV06SZ	3/4" Press Compatible Ball Valve with Schrader	EA	0.992	450.0	900	62
NBV07SZ	7/8" Press Compatible Ball Valve with Schrader	EA	1.102	500.0	900	62
NBV09SZ	1-1/8" Press Compatible Ball Valve with Schrader	EA	1.896	860.0	700	48



### Mini Split Ball Valves with Male Side Schrader

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)	MAX. WORKING PRESSURE	
					PSIG	BAR
NBV12MS	1/2" Mini-Split Ball Valve with Male Side Schrader	EA	0.595	270.0	900	62
NBV14MS	1/4" Mini-Split Ball Valve with Male Side Schrader	EA	0.617	280.0	900	62
NBV38MS	3/8" Mini-Split Ball Valve with Male Side Schrader	EA	0.529	240.0	900	62
NBV58MS	5/8" Mini-Split Ball Valve with Male Side Schrader	EA	0.893	405.0	900	62





### Reverse Mini Split Ball Valves with Female Side Schrader

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)	MAX. WORKING PRESSURE	
					PSIG	BAR
NBV12MSFFS	1/2" Mini Split Ball Valve with Female Side Schrader	EA	0.628	285.0	900	62
NBV14MSFFS	1/4" Mini Split Ball Valve with Female Side Schrader	EA	0.507	230.0	900	62
NBV38MSFFS	3/8" Mini Split Ball Valve with Female Side Schrader	EA	0.595	270.0	900	62
NBV58MSFFS	5/8" Mini Split Ball Valve with Female Side Schrader	EA	0.948	430.0	900	62



### 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 without Schrader Box Kits including Insulation

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV02BOX	1/4" Full Port Ball Valve without Schrader including Insulation (Box Kit)	EA	0.514	233.0
NBV03BOX	3/8" Full Port Ball Valve without Schrader including Insulation (Box Kit)	EA	0.531	241.0
NBV04BOX	1/2" Full Port Ball Valve without Schrader including Insulation (Box Kit)	EA	0.000	0.0
NBV05BOX	5/8" Full Port Ball Valve without Schrader including Insulation (Box Kit)	EA	0.712	323.0







### Ball Valve without Schrader Box Kits including Insulation - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV06BOX	3/4" Full Port Ball Valve without Schrader including Insulation (Box Kit)	EA	1.164	528.0
NBV07BOX	7/8" Full Port Ball Valve without Schrader including Insulation (Box Kit)	EA	1.252	568.0

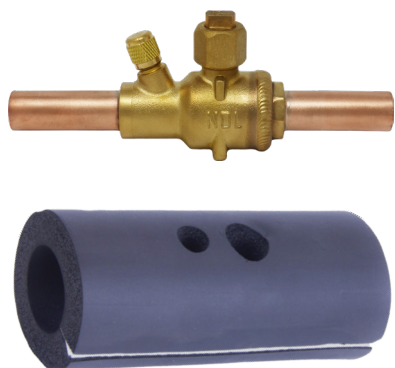
### Ball Valve with Schrader Box Kits including Insulation

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
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

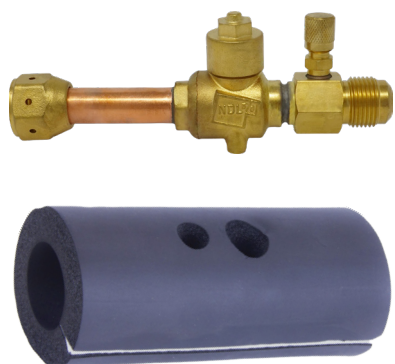
PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV02SZBOX	1/4" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	0.527	239.0
NBV03SZBOX	3/8" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	0.537	243.5
NBV04SZBOX	1/2" Press Compatible Ball Valve with Schrader including Insulation (Box Kit)	EA	0.559	253.5





### Press Compatible Ball Valve with Schrader Box Kits including Insulation - *Continued*

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
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)
NBV12MSBOX	1/2" Mini Split Ball Valve including Insulation (Box Kit)	EA	0.690	313.0
NBV14MSBOX	1/4" Mini Split Ball Valve including Insulation (Box Kit)	EA	0.569	258.1
NBV38MSBOX	3/8" Mini Split Ball Valve including Insulation (Box Kit)	EA	0.657	298.0
NBV58MSBOX	5/8" Mini Split Ball Valve including Insulation (Box Kit)	EA	1.010	458.0
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



### Mini Split Ball Valve Box Kits including Insulation

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV12MSFFSBOX	1/2" Mini-Split Ball Valve, Female Side Schrader Box Kit	EA	-	-





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

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV14MSFFSBOX	1/4" Mini-Split Ball Valve, Female Side Schrader Box Kit	EA	-	-
NBV38MSFFSBOX	3/8" Mini-Split Ball Valve, Female Side Schrader Box Kit	EA	-	-
NBV58MSFFSBOX	5/8" Mini-Split Ball Valve, Female Side Schrader Box Kit	EA	-	-



### Ball Valve Schrader Core

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NBV-SC	Ball Valve Schrader Core	EA	0.002	0.9



### Service Ball Valve

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
SBV03	3/8" Service Ball Valve	EA	0.201	91.0



### Replacement Slight Glass Eye Core

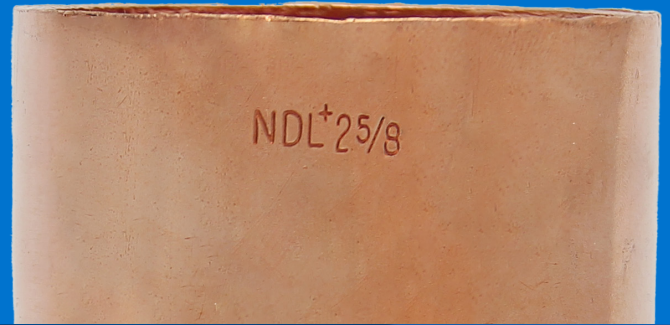
PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
NGR12	3/4" Sight Glass Only	EA	0.000	0.0





## 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)



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

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