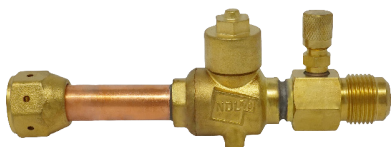




Refrigeration Ball Valves

Design features and specifications

NDL full port refrigeration and A/C ball valves are engineered for refrigeration, commercial HVAC, VRV, VRF, multi-mini split, and sub-critical applications. With a 900 PSIG working pressure on sizes up to and including seven-eighths inch, these valves offer industry-leading durability. Each valve is built with virgin Teflon seals and seats to reduce leaks and prevent environmental contamination. A bottom-up stem design ensures safety under pressure, and our two-piece cap nut makes service easy. Oven-brazed for strength and tested for reliability, every valve is backed by our two-year warranty and individually serial-number stamped. We also offer matching ball valve insulation and box kits to simplify installation and ensure maximum system efficiency. Our Refrigeration Ball Valves hold these certifications and approvals: *CE; RoHS Compliant; CRN-approved; UL-certified.*



Technical Data

SIZE	PSI	BAR
1/4"	900	62
3/8"	900	62
1/2"	900	62
5/8"	900	62
3/4"	900	62
7/8"	900	62
1-1/8"	700	48
1-3/8"	700	48
1-5/8"	700	48
2-1/8"	700	48
2-5/8"	650	45
3-1/8"	650	45
4-1/8"	450	31

CONTINUOUS OPERATING TEMPERATURE (COT): -40° F to 302°F (-40°C to 150°C)



Ball Valve Insulation

The NBV-IN ball valve insulation by NDL Industries is an innovative, EPDM-based, closed-cell elastomeric thermal insulation designed specifically for refrigeration, HVAC-R, and sub-critical applications. It effectively supports service temperatures up to +150°C (302°F), providing robust protection. Featuring excellent ozone, UV, and weather resistance, it ensures long-lasting performance, although additional protective coatings may be required for prolonged direct sunlight exposure. Its lightweight construction and tough outer skin facilitate simple installation, and its self-extinguishing properties enhance safety by preventing melting if burned.



Explore our full line of high-quality HVAC-R, CO₂ Refrigeration, and Hydronic products.

ndlindustries.com | 1-866-635-6888 | sales@ndlinc.com

@ndlindustries





Product Numbers and Dimensions

Full Port Ball Valves with Schrader

PART #	OD - DESCRIPTION	WT (LB)	WT (G)
NBV02S	1/4" Ball Valve with Schrader	0.463	210
NBV03S	3/8" Ball Valve with Schrader	0.481	218
NBV04S	1/2" Ball Valve with Schrader	0.481	218
NBV05S	5/8" Ball Valve with Schrader	0.661	300
NBV06S	3/4" Ball Valve with Schrader	1.113	505
NBV07S	7/8" Ball Valve with Schrader	1.202	545
NBV09S	1-1/8" Ball Valve with Schrader	1.940	880
NBV11S	1-3/8" Ball Valve with Schrader	3.109	1410
NBV13S	1-5/8" Ball Valve with Schrader	5.093	2310
NBV17S	2-1/8" Ball Valve with Schrader	8.730	3960
NBV21S	2-5/8" Ball Valve with Schrader	14.330	6500
NBV25S	3-1/8" Ball Valve with Schrader	20.977	9515
NBV33S	4-1/8" Ball Valve with Schrader	36.597	16600

Ball Valve Insulation

PART #	OD - DESCRIPTION	WT (LB)	WT (G)
NBVINS	Small Ball Valve Insulation - 3/4" Thickness	0.062	28
NBVINL	Large Ball Valve Insulation - 3/4" Thickness	0.128	58
NBVINMS	Reverse Mini-Split Ball Valve Insulation	0.088	40

NBVINS: Compatible with 1/4 to 5/8 Ball Valves with Schrader

NBVINL: Compatible with 3/4 to 1-1/8 Ball Valves with Schrader

NBVINMS: Compatible with all of NBV-MS and NBV-MSFFS series

Press Compatible Full Port Ball Valves with Schrader

PART #	OD - DESCRIPTION	WT (LB)	WT (G)
NBV02SZ	1/4" Press Compatible Ball Valve with Schrader	0.463	210
NBV03SZ	3/8" Press Compatible Ball Valve with Schrader	0.474	215
NBV04SZ	1/2" Press Compatible Ball Valve with Schrader	0.496	225
NBV05SZ	5/8" Press Compatible Ball Valve with Schrader	0.706	320
NBV06SZ	3/4" Press Compatible Ball Valve with Schrader	0.992	450
NBV07SZ	7/8" Press Compatible Ball Valve with Schrader	1.102	500
NBV09SZ	1-1/8" Press Compatible Ball Valve with Schrader	1.896	860

Mini Split Ball Valves with Male Side Schrader

PART #	OD - DESCRIPTION	WT (LB)	WT (G)
NBV12MS	1/2" Mini-Split Ball Valve with Male Side Schrader	0.595	270
NBV14MS	1/4" Mini-Split Ball Valve with Male Side Schrader	0.617	280
NBV38MS	3/8" Mini-Split Ball Valve with Male Side Schrader	0.529	240
NBV58MS	5/8" Mini-Split Ball Valve with Male Side Schrader	0.893	405

Reverse Mini Split Ball Valves with Female Side Schrader

PART #	OD - DESCRIPTION	WT (LB)	WT (G)
NBV12MSFFS	1/2" Mini Split Ball Valve with Female Side Schrader	0.628	285
NBV14MSFFS	1/4" Mini Split Ball Valve with Female Side Schrader	0.507	230
NBV38MSFFS	3/8" Mini Split Ball Valve with Female Side Schrader	0.595	270
NBV58MSFFS	5/8" Mini Split Ball Valve with Female Side Schrader	0.948	430



Explore our full line of high-quality HVAC-R, CO₂ Refrigeration, and Hydronic products.

ndlindustries.com | 1-866-635-6888 | sales@ndlinc.com

@ndlindustries

