NDL Industries

APPLICATIONS

Commercial, Industrial, and Residential CO_2 Refrigeration

CO_2 Valves

Our robust design meets and exceeds the industry standards for holding maximum working pressure, garnering the reliability for transcritical CO_2 refrigeration applications.

NDL Industries

CO_2 Valves

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CO_2 Valves

Innovative Refrigeration Products with High-Quality Performance

- NDL is the first manufacturer of the CRN approved ball valve, which can also hold five times their maximum working pressure, netting a tremendous safety margin for any ball valve used in CO_2 systems.
- A wide range of sizes and connection types makes our valves compatible with main pipe types manufactured from copper iron alloys and stainless steel.
- Each valve is helium tested at the factory to guarantee leak-free performance.
- The NDL CO_2 valves feature a stainless steel body for stainless steel and copper-iron alloy connections.
- Reduce service calls, refrigerant loss, and environmental contamination with our cone-shaped 100% virgin Teflon seals and seats that will not shrink or leak, eliminating seal replacement during changeovers.
- Our stem placement is engineered from the bottom up. If there is an accidental over-pressurization in the valve, it will not blow the stem out with resulting loss of the charge.
- Our two-year warranty proves confidence. Every valve is tested and serial number stamped. Valves are cleanly packaged in a poly-bag and boxed to prevent

Certifications and Approvals

- CE
- RoHS
- CRN-Approved

2 YEAR WARRANTY

NDL Industries

CO_2 Valves

Operating Specifications

C194 Copper Ball Valves

- Continuous operating temperature (COT): -40˚C to 150˚C (-40˚F to 302˚F)
- Maximum working pressure (MWP): 120-140 BAR (1740-2030 PSI)
- Compatible with CO_2 (R744), HCFC, HFC, HFO refrigerants, and oils

C194 Copper Check Valves

- Continuous operating temperature (COT): -40˚C to 150˚C (-40˚F to 302˚F)
- Maximum working pressure: 140 BAR (2030 PSI)
- Standard spring minimum opening pressure differential = 0.3 BAR (4.35 PSI)
- Compatible with CO_2 (R744), HCFC, HFC, HFO refrigerants, and oils

Stainless Steel Ball Valves

- Continuous operating temperature (COT): -40˚C to 150˚C (-40˚F to 302˚F)
- Maximum working pressure (MWP): 120-140 BAR (1740-2030 PSI)
- Compatible with CO_2 (R744), Ammonia (R717), HCFC, HFC, HFO refrigerants, and oils

Stainless Steel Check Valves

- Continuous operating temperature (COT): -40˚C to 150˚C (-40˚F to 302˚F)
- Maximum working pressure: 140 BAR (2030 PSI)
- Standard spring minimum opening pressure differential = 0.3 BAR (4.35 PSI)
- Compatible with CO_2 (R744), HCFC, HFC, HFO refrigerants, and oils

Stainless Steel Service Valves

- Continuous operating temperature (COT): - 40˚C to 150˚C (-40˚F to 302˚F).
- Maximum working pressure: 140 BAR (2030 PSI)
- Compatible with CO_2 (R744), Ammonia (R717), HCFC, HFC, HFO refrigerants, and oils

2 YEAR WARRANTY

C194 Copper Ball Valves

PART #	CONNECTIONS W	BALL PORT SIZE	KV	CV	MAXIMUM OPERATING PRESSURE		CRN
	MM NPS, IN	MM	M3/H	GPM	BAR	PSI	
CO2-02C	1/4"	10	0.8	0.9	140	2030	Approved
CO2-03C	3/8"	10	3	3.5	140	2030	Approved
CO2-04C	1/2"	10	5	5.8	140	2030	Approved
CO2-05C	5/8"	14	17	19.7	140	2030	Approved
CO2-06C	3/4"	18	17	19.7	140	2030	Approved
CO2-07C	7/8"	19	29	33.5	140	2030	Approved
CO2-09C	1-1/8"	25	51	59.0	140	2030	Approved
CO2-11C	1-3/8"	31	81	93.6	140	2030	Approved
CO2-13C	1-5/8"	37	105	121.4	120	1740	Approved
CO2-17C	2-1/8"	50	214	247.4	120	1740	Approved

C194 Copper Check Valves

PART #	CONNECTIONS W	KV	CV	MAXIMUM OPERATING PRESSURE		CRN
	IN	M3/H	GPM	BAR	PSI	
CO2-CVK014	1/4"	2	2.3	140	2030	Pending
CO2-CVK038	3/8"	2	2.3	140	2030	Pending
CO2-CVK012	1/2"	2	2.3	140	2030	Pending
CO2-CVK058	5/8"	3.6	4.2	140	2030	Pending
CO2-CVK034	3/4"	3.6	4.2	140	2030	Pending
CO2-CVK078	7/8"	8.5	9.8	140	2030	Pending
CO2-CVK118	1-1/8"	19	22.0	140	2030	Pending
CO2-CVK138	1-3/8"	29	33.5	140	2030	Pending
CO2-CVK158	1-5/8"	-	-	140	2030	Pending

Stainless Steel Ball Valves

PART #	CONNECTIONS W		BALL PORT SIZE	KV	CV	MAXIMUM OPERATING PRESSURE		CRN
	MM	NPS, IN	MM	M3/H	GPM	BAR	PSI	
CO2-02S^	6	-	10	0.8	0.9	140	2030	Approved
CO2-03S	10	-	10	3	3.5	140	2030	Approved
CO2-04S	12	-	10	5	5.8	140	2030	Approved
CO2-05S	16	-	14	17	19.7	140	2030	Approved
CO2-06S	18	-	16.5	17	19.7	140	2030	Approved
CO2-07S	22	-	18	29	33.5	140	2030	Approved
CO2-09S	28	-	25	51	59.0	140	2030	Approved
CO2-11S	35	-	31	81	93.6	140	2030	Approved
CO2-13S	42	-	37	105	121.4	120	1740	Approved
CO2-03D	DN08	1/4	10	3	3.5	140	2030	Approved
CO2-04D	DN10	3/8	14	9.8	11.3	140	2030	Approved
CO2-05D	DN15	1/2	18	17	19.7	140	2030	Approved
CO2-07D	DN20	3/4	25	40	46.2	140	2030	Approved
CO2-09D	DN25	1	31	59	68.2	140	2030	Approved
CO2-11D	DN32	1-1/4	37	105	121.4	120	1740	Approved
CO2-13D	DN40	1-1/2	37	105	121.4	120	1740	Approved
CO2-17D	DN50	2	50	214	247.4	120	1740	Approved
CO2-21D	DN65	2-1/2”	60	310	358	120	1740	Pending

Stainless Steel Check Valves

PART #	CONNECTIONS W	KV	CV	MAXIMUM OPERATING PRESSURE		CRN
	MM	M3/H	GPM	BAR	PSI	
CO2-CVS10M	10	2	2.3	140	2030	Approved
CO2-CVS12M	12	2	2.3	140	2030	Approved
CO2-CVS16M	16	3.6	4.2	140	2030	Pending
CO2-CVS18M	18	3.6	4.2	140	2030	Pending
CO2-CVS22M	22	8.5	9.8	140	2030	Pending
CO2-CVS28M	28	19	22.0	140	2030	Pending
CO2-CVS32M	32	29	33.5	140	2030	Pending
CO2-CVS42M	42	38	43.9	140	2030	Pending

Stainless Steel Service Ball Valves

PART #	CONNECTIONS		BALL PORT SIZE	KV	CV	MAXIMUM OPERATING PRESSURE		CRN
	W, MM	SAE, IN	MM	M3/H	GPM	BAR	PSI	
CO2-HS10	10	1/4”	10	1.1	1.3	140	2030	Approved
CO2-HS12	12	1/4”	10	1.1	1.3	140	2030	Approved

FAST ORDER TURNAROUND

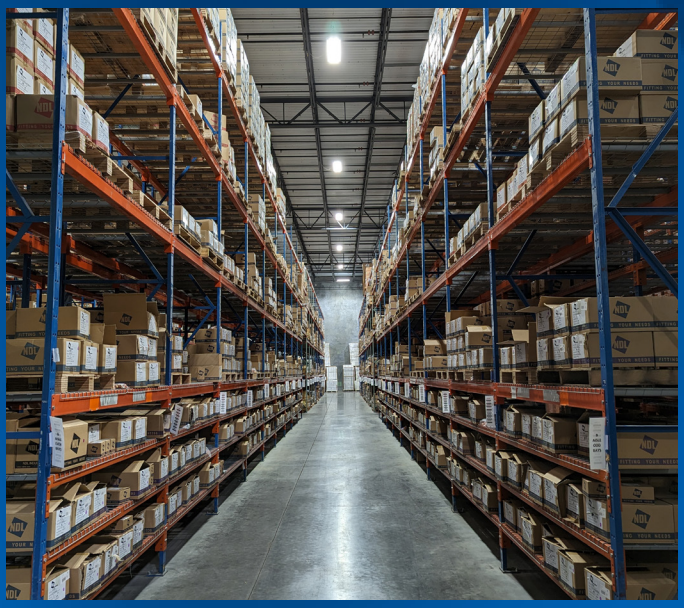
Our Operations Center is strategically located in the Memphis, Tennesse metro area to streamline delivery and bolster the customer service that NDL is known for throughout the industry.

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

Since 1998, it has been our mission to stay ahead of the curve as an industry leader in the HVAC, Refrigeration, and Plumbing markets. We have achieved this over the years by placing a heavy emphasis on 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 our commitment to our customers or our product that has what 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



Innovative HVAC-R Products That Exceed Expectations.

We began our journey looking for the best ACR copper fitting and we engineered a design that now exceeds industry standards. We maintain the same high-quality standards and performance expectations with our filter driers, refrigeration ball valves, and other HVAC and refrigeration products.

Learn more about our high-quality products with zero reported failures at ndlinc.com.

NDL FITTING YOUR NEEDS

Explore our full line of high-quality HVAC-R and plumbing products.

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