



CO₂ Valves

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CO₂ 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 CO₂ 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 CO₂ valves feature a stainless steel body for stainless steel and copperiron 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
- UL-listed
- CRN-approved (Select Models)





CO₂ 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 CO₂ (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 CO₂ (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): 125-140 BAR (1813-2030 PSI)
- Compatible with CO₂ (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 CO₂ (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 CO₂ (R744), Ammonia (R717), HCFC, HFC, HFO refrigerants, and oils







C194 Copper Ball Valves

DART #	CONNECTIONS W	BALL PORT SIZE	KV	cv
PART #	MM NPS, IN	ММ	M3/H	GPM
CO2-02C	0.25 (1/4")	10	0.8	0.9
CO2-03C	0.375" (3/8")	10	3	3.5
CO2-04C	0.5" (1/2")	10	5	5.8
CO2-05C	0.625" (5/8")	14	17	19.7
CO2-06C	0.75" (3/4")	18	17	19.7
CO2-07C	0.875" (7/8")	19	29	33.5
CO2-09C	1.125" (1-1/8")	25	51	59.0
CO2-11C	1.375" (1-3/8")	31	81	93.6
CO2-13C	1.625" (1-5/8")	37	105	121.4
CO2-17C	2.125" (2-1/8")	50	214	247.4



C194 Copper Check Valves

DART #	CONNECTIONS W	KV	cv
PART #	IN	М3/Н	GPM
CO2-CVK014	0.25" (1/4")	2	2.3
CO2-CVK038	0.375" (3/8")	2	2.3
CO2-CVK012	0.5" (1/2")	2	2.3
CO2-CVK058	0.625" (5/8")	3.6	4.2
CO2-CVK034	0.75" (3/4")	3.6	4.2
CO2-CVK078	0.875" (7/8")	8.5	9.8
CO2-CVK118	1.125" (1-1/8")	19	22.0
CO2-CVK138	1.375" (1-3/8")	29	33.5
CO2-CVK158	1.625" (1-5/8")	38	43.9



Stainless Steel Ball Valves

	CONNECTIONS W		BALL PORT SIZE	KV	CV
PART #	мм	NPS, IN	ММ	M3/H	GPM
CO2-02S^	6	-	10	0.8	0.9
CO2-03S	10	-	10	3	3.5
CO2-04S	12	-	10	5	5.8
CO2-05S	16	-	14	17	19.7
CO2-06S	18	-	16.5	17	19.7
CO2-07S	22	-	18	29	33.5
CO2-09S	28	-	25	51	59.0
CO2-11S	35	-	31	81	93.6
CO2-13S	42	-	37	105	121.4
CO2-03D	DN08	0.25" (1/4")	10	3	3.5
CO2-04D	DN10	0.375" (3/8")	14	9.8	11.3
CO2-05D	DN15	0.5" (1/2")	18	17	19.7
CO2-07D	DN20	0.75" (3/4")	25	40	46.2
CO2-09D	DN25	1"	31	59	68.2
CO2-11D	DN32	1.25" (1-1/4")	37	105	121.4
CO2-13D	DN40	1.5" (1-1/2")	37	105	121.4
CO2-17D	DN50	2"	50	214	247.4
CO2-21D	DN65	2.5" (2-1/2")	60	310	358



Stainless Steel Service Ball Valves

PART#	CONNECTIONS		BALL PORT SIZE	KV	cv
FARI#	W, MM	SAE, IN	E, IN MM	М3/Н	GPM
CO2-HS10	10	0.25" (1/4")	10	1.1	1.3
CO2-HS12	12	0.25" (1/4")	10	1.1	1.3



Stainless Steel Check Valves

PART#	CONNECTIONS W	кv	cv
FANI#	ММ	М3/Н	GPM
CO2-CVS10M	10	2	2.3
CO2-CVS12M	12	2	2.3
CO2-CVS16M	16	3.6	4.2
CO2-CVS18M	18	3.6	4.2
CO2-CVS22M	22	8.5	9.8
CO2-CVS28M	28	19	22.0
CO2-CVS35M	35	29	33.5
CO2-CVS42M	42	38	43.9



OUALITY 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 topnotch 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)









