



NDL Industries

APPLICATIONSCommercial, Industrial, and Residential CO₂ Refrigeration

Stainless Steel Ball Valves (CO₂-S/D)

NDL CO₂ ball valves perform unlike any other in its class for leak prevention, reliability, and superior field performance.



CO₂-S/D Specifications

Exceptional Safety Margins

Our valves can hold five times their maximum working pressure, netting a tremendous safety margin for any ball valve used in CO₂ systems.

Quality Tested

Each valve is helium tested at the factory to guarantee leak-free performance.

Bottom-Up Stem Installation

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 and lose the charge.

Stainless Steel Body

The NDL CO₂ valves feature a stainless steel body for stainless steel connections.

Size and Connections

A wide range of sizes and connection types makes our valves compatible with main pipe types manufactured from copper iron alloys and stainless steel.

Unparalleled Two-year Warranty

Our warranty proves confidence, along with stamping every valve with a serial number and cleanly packaging in a poly-bag to prevent contamination and malfunctions.



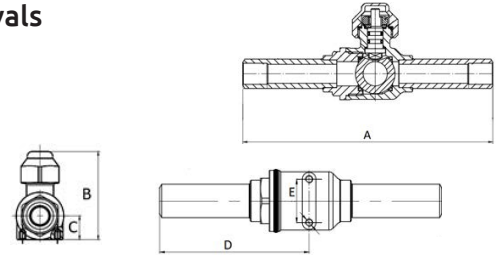
Stainless Steel Ball Valves

Operating Specifications

- Temperature: -40° to 302°F (-40°C to 150°C)
- Burst Pressure: 5 times the working pressure
- Life Expectancy: >50,000 cycles

Certifications and Approvals

- RoHS
- UL-listed
- CE-approved
- CRN-approved



CO₂-S/D Sizes, Kv/Cv, and Pressure Ratings

| PART NUMBER | CONNECTIONS W | | BALL PORT SIZE | KV | CV | MAXIMUM OPERATING PRESSURE | |
|-------------|---------------|---------|----------------|------|-------|----------------------------|------|
| | MM | NPS, IN | MM | M3/H | GPM | BAR | PSI |
| CO2-02S^ | 6 | - | 10 | 0.8 | 0.9 | 140 | 2030 |
| CO2-03S | 10 | - | 10 | 3 | 3.5 | 140 | 2030 |
| CO2-04S | 12 | - | 10 | 5 | 5.8 | 140 | 2030 |
| CO2-05S | 16 | - | 14 | 17 | 19.7 | 140 | 2030 |
| CO2-06S | 18 | - | 16.5 | 17 | 19.7 | 140 | 2030 |
| CO2-07S | 22 | - | 18 | 29 | 33.5 | 140 | 2030 |
| CO2-09S | 28 | - | 25 | 51 | 59.0 | 140 | 2030 |
| CO2-11S | 35 | - | 31 | 81 | 93.6 | 140 | 2030 |
| CO2-13S | 42 | - | 37 | 105 | 121.4 | 130 | 1740 |
| CO2-03D | DN08 | 1/4" | 10 | 3 | 3.5 | 140 | 2030 |
| CO2-04D | DN10 | 3/8" | 14 | 9.8 | 11.3 | 140 | 2030 |
| CO2-05D | DN15 | 1/2" | 18 | 17 | 19.7 | 140 | 2030 |
| CO2-07D | DN20 | 3/4" | 25 | 40 | 46.2 | 140 | 2030 |
| CO2-09D | DN25 | 1" | 31 | 59 | 68.2 | 140 | 2030 |
| CO2-11D | DN32 | 1-1/4" | 37 | 105 | 121.4 | 130 | 1885 |
| CO2-13D | DN40 | 1-1/2" | 37 | 105 | 121.4 | 130 | 1885 |
| CO2-17D | DN50 | 2" | 50 | 214 | 247.4 | 125 | 1813 |
| CO2-21D | DN65 | 2-1/2" | 60 | 310 | 358 | 130 | 1885 |



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

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