



# C194 Copper Ball Valves

## TECHNICAL SPECIFICATIONS SUBMITTAL FORM

Job Name:	Submittal Date:	Wholesaler:
Job Location:	Engineer/Architect:	Contractor:

### Product Use:

Full port ball valve for use in refrigeration, commercial HVAC, VRF, multi-mini split, sub-critical and trans-critical applications. Specifically designed for CO<sub>2</sub> refrigeration.

### Design and Features:

- Full port valves with 2030 PSI (140 Bar) working pressure on sizes up to 1-0.375" and 1740 PSI (120 Bar) working pressure on sizes 1-0.625" and 2.125"
- Compatible with CO<sub>2</sub> (R744), HCFC, HFC, HFO refrigerants, and oils
- Teflon (PTFE) seals
- Rupture-proof encapsulated stem and bi-directional flow
- Stainless steel body
- 100% leak tested
- Stamped with serial number and packaged in poly-bag
- Two-year warranty

### CO<sub>2</sub>-C Sizes, Ball Port Sizes, Kv/Cv, and Pressure Ratings

PART NUMBER	CONNECTION ODS	BALL PORT SIZE	KV	CV	MAXIMUM OPERATING PRESSURE	
	IN	MM	M3/H	GPM	BAR	PSI
CO2-02C	0.25"	10	0.8	0.9	140	2030
CO2-03C	0.375"	10	3	3.5	140	2030
CO2-04C	0.5"	10	5	5.8	140	2030
CO2-05C	0.625"	14	17	19.7	140	2030
CO2-06C	0.75"	18	17	19.7	140	2030
CO2-07C	0.875"	19	29	33.5	140	2030
CO2-09C	1.125"	25	51	59.0	140	2030
CO2-11C	1.375"	31	81	93.6	140	2030
CO2-13C	1.625"	37	105	121.4	120	1740
CO2-17C	2.125"	50	214	247.4	120	1740

### 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



### CO<sub>2</sub>-C Materials

PART	MATERIAL
STUBOUTS	C19400 Copper
SEALS & SEATS	Teflon (PTFE)
CAP	Stainless Steel
STEM	Stainless Steel
LOCK NUT	Stainless Steel
BODY	Stainless Steel
BALL	Stainless Steel



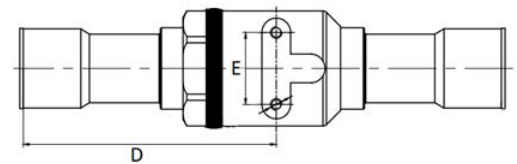
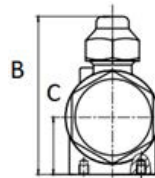
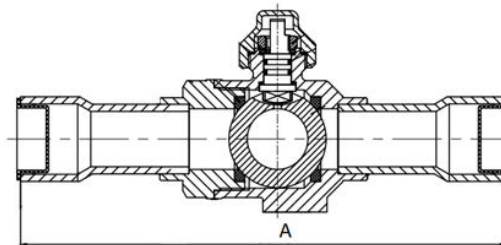
# C194 Copper Ball Valves

## CO2-C Dimensions

Model	ODS	A		B		C		D		E	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
CO2-02C	0.25"	115	4.53"	56.1	2.21"	19	0.75"	59.8	2.35"	16	0.63"
CO2-03C	0.375"	130	5.12"	56.1	2.21"	19	0.75"	67.3	2.65"	16	0.63"
CO2-04C	0.5"	140	5.51"	56.1	2.21"	19	0.75"	72.3	2.85"	16	0.63"
CO2-05C	0.625"	148	5.83"	56.2	2.21"	15	0.59"	78.3	3.08"	22	0.87"
CO2-06C	0.75"	148	5.83"	63	2.48"	19	0.75"	77.8	3.06"	30	1.18"
CO2-07C	0.875"	185	7.28"	63	2.48"	19	0.75"	95.8	3.77"	30	1.18"
CO2-09C	1.125"	200	7.87"	82.8	3.26"	30	1.18"	105.8	4.17"	30	1.18"
CO2-11C	1.375"	210	8.27"	98.7	3.89"	29.8	1.17"	110.7	4.36"	48	1.89"
CO2-13C	1.625"	240	9.45"	108.5	4.27"	34	1.34"	124.4	4.90"	55	2.17"
CO2-17C	2.125"	275	10.83"	129.9	5.11"	45.5	1.79"	157.5	6.20"	74	2.91"

## Part Selection

CO2-02C	0.25" C194 Ball Valve
CO2-03C	0.375" C194 Ball Valve
CO2-04C	0.5" C194 Ball Valve
CO2-05C	0.625" C194 Ball Valve
CO2-06C	0.75" C194 Ball Valve
CO2-07C	0.875" C194 Ball Valve
CO2-09C	1.125" C194 Ball Valve
CO2-11C	1.375" C194 Ball Valve
CO2-13C	1.625" C194 Ball Valve
CO2-17C	2.125" C194 Ball Valve



*The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of a product.*

*All installations must completely comply with all NDL Industries warnings and instructions, national state and local codes and all applicable ANSI standards.*

*NDL Industries product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Customer*

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