



C194 Copper Check Valves

TECHNICAL SPECIFICATIONS SUBMITTAL FORM

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

Product Use:

Check valve with C19400 copper stubs for use in refrigeration, commercial HVAC, VRF, multi-mini split, sub-critical and trans-critical applications. Specifically designed for CO₂ refrigeration.

Design and Features:

- Check valves with up to 2030 PSIG working pressure
- Compatible with CO₂ (R744), HCFC, HFC, HFO refrigerants, and oils
- Spring minimum opening pressure differential – 4.3 psi / 0.3 bar
- Stamped with serial number and packaged in poly-bag
- 100% leak tested
- Two-year warranty

CO₂-CVK Sizes, Kv/Cv, and Pressure Ratings

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

Operating Specifications:

- Temperature: -40°F to 302°F (-40°C to 150°C)
- Burst Pressure: 5 times the working pressure

Certifications and Approvals:

- CE
- RoHS



CO₂-CVK Materials

PART	MATERIAL
STUBOUTS	C19400 Copper
DIAPHRAGM GROUP	Brass
GUIDE SLEEVE	Brass
BODY	Stainless Steel
GLAND	Stainless Steel



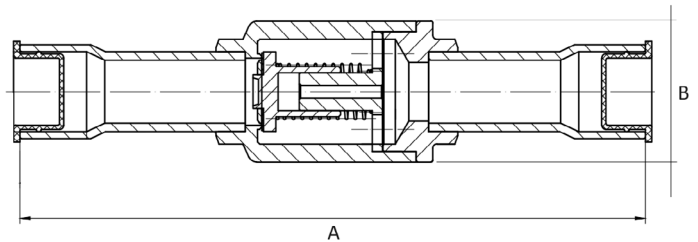
C194 Copper Check Valves

CO2-CVK Dimensions

Model	ODS		A		D	
	IN	MM	IN	MM	IN	MM
CO2-CVK014	1/4"	120	4.72"	24.6	0.97"	
CO2-CVK038	3/8"	135	5.31"	24.6	0.97"	
CO2-CVK012	1/2"	145	5.71"	24.6	0.97"	
CO2-CVK058	5/8"	151	5.94"	28.4	1.12"	
CO2-CVK034	3/4"	150	5.91"	33.6	1.32"	
CO2-CVK078	7/8"	195	7.68"	41.6	1.64"	
CO2-CVK118	1-1/8"	-	0.00"	-	0.00"	
CO2-CVK138	1-3/8"	-	0.00"	-	0.00"	
CO2-CVK158	1-5/8"	-	0.00"	-	0.00"	

Part Selection

CO2-CVK014	1/4" C194 Check Valve
CO2-CVK038	3/8" C194 Check Valve
CO2-CVK012	1/2" C194 Check Valve
CO2-CVK058	5/8" C194 Check Valve
CO2-CVK034	3/4" C194 Check Valve
CO2-CVK078	7/8" C194 Check Valve
CO2-CVK118	1-1/8" C194 Check Valve
CO2-CVK138	1-3/8" C194 Check Valve
CO2-CVK158	1-5/8" C194 Check 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.

Service. NDL Industries reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on NDL products previously or subsequently sold.