



Stainless Steel Check Valves

TECHNICAL SPECIFICATIONS SUBMITTAL FORM

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

Product Use:

Check valve with stainless steel 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
- 100% leak tested
- Stamped with serial number and packaged in poly-bag
- Two-year warranty

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

PART #	CONNECTIONS W	KV	CV	MAXIMUM OPERATING PRESSURE	
	MM	M3/H	GPM	BAR	PSI
CO2-CVS10M	10	2	2.3	140	2030
CO2-CVS12M	12	2	2.3	140	2030
CO2-CVS16M	16	3.6	4.2	140	2030
CO20CVS18M	18	3.6	4.2	140	2030
CO2-CVS22M	22	8.5	9.8	140	2030
CO2-CVS28M	28	19	22.0	140	2030
CO2-CVS35M	35	29	33.5	140	2030
CO2-CVS42M	42	-	0.0	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:

- RoHS
- UL-listed
- CE-approved



CO₂-CVS Materials

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



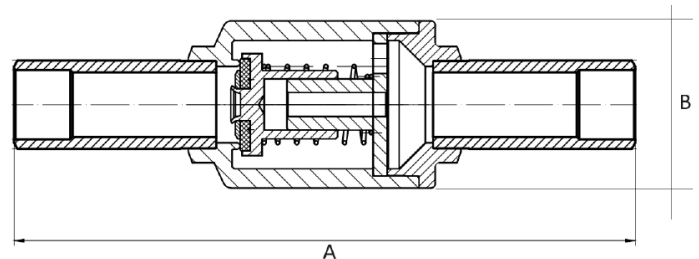
Stainless Steel Check Valves

CO₂-CVS Dimensions

Model	ODS	A		D	
	MM	MM	IN	MM	IN
CO2-CVS10M	10	126	4.96"	21.6	0.85"
CO2-CVS12M	12	132	5.20"	24.6	0.97"
CO2-CVS16M	16	146	5.75"	28.4	1.12"
CO2-CVS18M	18	146	5.75"	33.5	1.32"
CO2-CVS22M	22	155	6.10"	41.6	1.64"
CO2-CVS28M	28	219	8.62"	56	2.20"
CO2-CVS35M	35	225	8.86"	62	2.44"
CO2-CVS42M	42	254	10.00"	75	2.95"

Part Selection

CO2-CVS10M	10 mm Stainless Steel Check Valve
CO2-CVS12M	12 mm Stainless Steel Check Valve
CO2-CVS16M	16 mm Stainless Steel Check Valve
CO2-CVS18M	18 mm Stainless Steel Check Valve
CO2-CVS22M	22 mm Stainless Steel Check Valve
CO2-CVS28M	28 mm Stainless Steel Check Valve
CO2-CVS35M	35 mm Stainless Steel Check Valve
CO2-CVS42M	42 mm Stainless Steel 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.

