

Vacuum Check Valves



Features that make CheckVac valves the best for vacuum applications:

- One-piece airtight aluminum body in a compact design. No seams means no leakage – two-piece valves that screw together risk possible leakage. The anodized aluminum body will not crack as may plastic valves when being screwed into a fitting.
- Optimum flow design for all vacuum applications – a very large Flow Rate (CV). This allows more suction flow and eliminates the major source of flow restriction in most vacuum systems. This is an easy performance upgrade which offers the best results for the money.
- Spring loaded, so they operate in any orientation. The low cracking pressure allows you to get the most performance from your pumps; does not waste your pump's power opening the check valve.
- Precision internal plastic valve with stainless steel springs – eliminates corrosion from water contamination.

Application: For Industrial Vacuum Applications Requiring High Flow:

ANVER one-way vacuum check valves are suitable for all vacuum applications, where vacuum loss prevention is required. The check valves can operate in any position, making them suitable for all vacuum needs. We designed them to be leakproof, and to have a low cracking pressure and the highest flow available. Made in the USA by ANVER.

Note: On the 3/8" check valve we used a 1/2" check valve with adaptors. This allows for a maximized flow rate (CV) in this popular size. Try it on any 3/8" hoses system; you will find that the reduced restriction is worth the minimal added cost of adaptors. The 1" is a 1 1/4" with adaptors and the 1 1/2" is a 2" with adaptors. Again, the reason for this is to maximize flow.

Remember: The main restriction of a vacuum system is at the check valve. You can utilize a smaller pump if you increase flow at this point. This is the most economical way to increase a vacuum system's performance.

CheckVac Aluminum Vacuum Check Valve Specifications:

Maximum Pressure: 230 psi **Temperature:** 0° to 200° F (-18° to 93° C) **Seals:** Nitrile Butadiene Rubber

ANVER Item No.	Pipe Thread	Height in. (mm)	Hex Size in. (mm)	Cracking Pressure		Flow Rate (Cv)
				in. Hg (mm Hg)	psi	
CV14F14F	1/4" NPT (Female) X	1.38 (34.9)	11/16 (17.5)	0.58 (14.73)	0.28 (± 0.14)	4.0
CV38F38F	3/8" NPT (Female) X	2.825 (71.8)	1.00 (25.4)	0.60 (15.24)	0.30 (± 0.14)	9.7
FB12X38 (Adapter for CV12F12F)	1/2" NPT (Male) 3/8" NPT (Female)	0.56 (14.3)	N/A	N/A	N/A	N/A
CV12F12F	1/2" NPT (Female) X 1/2" NPT (Female)	2.44 (61.9)	1.00 (25.4)	0.60 (15.24)	0.30 (± 0.14)	10.4
CV34F34F	3/4" NPT (Female) X 3/4" NPT (Female)	2.75 (69.9)	1.187 (30.2)	0.52 (13.21)	0.26 (± 0.14)	10.8
CV114F114F	1 1/4" NPT (Female) X 1 1/4" NPT (Female)	3.38 (85.9)	2.00 (51.8)	0.14 (3.56)	0.07 (+0.14/-0.05)	28
CV2F2F	2" NPT (Female) X 2" NPT (Female)	5.00 (127.0)	N/A	0.35 (8.89)	0.17 (± 0.14)	63
CV12M12F	1/2" NPT (Male) X 1/2" NPT (Female)	1.6 (40)	1.2 (30.2)	0.60 (15.24)	0.30 (± 0.14)	4.7

* **Cracking Pressure** refers to the minimum **pressure differential** needed between the inlet and outlet of the valve to lift the plunger off its seat to generate flow.

NOTE: These check valves were designed and built specifically for our vacuum lifting systems, and have been proven in actual vacuum system installations. Ordinary check valves designed for compressed air systems are unsuitable for use in vacuum systems and can adversely affect your system.