

ANVER easy adjustable Vacuum Relief Valves (VRV) are designed to protect vacuum pumps from internal damage due to a dead-head situation while handling non-porous loads. VRVs allow a small amount of air into the vacuum pump, which cools the temperature and, in doing so, prevents overheating and possible damage. VRVs can be preset to a preferred vacuum level in order to provide the proper amount of air to cool and protect your vacuum pump. You can set a predetermined vacuum level using a vacuum gauge in the system. The VRV can be mounted anywhere in the system manifold, however, consider mounting the VRV close to the vacuum pump and gauge to make adjustments easily as needed. VRVs are an inexpensive way to insure your expensive regenerative vacuum pump.

Features:

- Vibration resistant – holds settings
- Spring-loaded metal shaft and sealing cup
- Anodized aluminum construction for longevity and ruggedness
- Adjustable locking ring and internal bronze bearing for wear resistance
- Operational range from 5 in. to 26 in. Hg (for lower levels, as low as 2 in. Hg, a larger size VRV must be used)
- Easy access from the top to reset valve without removing it from the manifold



Applications:

VRVs are ideal for vacuum handling of non-porous loads, in addition to many other applications that may cause a vacuum pump to dead-head or burnout.

Valve Settings:

Initial factory settings for the valve are set slightly below the pump's maximum vacuum level. Simply turn locking ring in direction of + arrow while holding adjusting nut in position. Turn adjusting nut to adjust vacuum level until desired level is achieved. The arrow on the adjustment nut indicates the direction to increase or decrease vacuum adjustment. Turn the locking ring tightly against the adjusting nut to prevent movement during operation.

Need more Flow?

If you need to get to a lower vacuum level or flow rate than the operational range from 5 in. to 26 in. Hg, you can use a larger size VRV or double them up. Use of a vacuum gauge and flow meter is recommended to set the valves in critical applications.



VRV-112-KIT-4 SHOWN

NOTE: Application types and user preferences determine what the maximum level should be. Load capacity must be adjusted accordingly, based on achieved vacuum at the vacuum attachment point.

Valve Part Number	Operational Range	Overall Height [in (mm)]	Diameter [in (mm)]	Thread Size
VRV-12-EA	7 - 26 In. Hg.	1.65 - 2.13 (41.9 - 54.1)	1.25 (31.8)	1/2" NPT Male
VRV-34-EA	7 - 26 In. Hg.	1.65 - 2.13 (41.9 - 54.1)	1.25 (31.8)	3/4" NPT Male
VRV-1-EA	5 - 19 In. Hg.	3.50 - 4.38 (88.9 - 111.3)	2.00 (50.8)	1" NPT Male
VRV-112-EA	5 - 19 In. Hg.	3.50 - 4.38 (88.9 - 111.3)	2.50 (63.5)	1-1/2" NPT Male
VRV-2-EA	5 - 19 In. Hg.	3.50 - 4.38 (88.9 - 111.3)	3.00 (76.2)	2" NPT Male

Vacuum Relief Valve Add-On Kits

Valve Kit Part Number	Valve Used	Description
VRV-112-KIT-4	VRV-112-EA	Vacuum Relief Valve Add-On Kit for VB4HF-S, 1/2" NPT - Used with Sound Deadening Enclosure
VRV-112-KIT-7/9	VRV-112-EA	Vacuum Relief Valve Add-On Kit for VB7HV and VB9HV, 1/2" NPT
VRV-112-KIT-7-SDE	VRV-112-EA	Vacuum Relief Valve Add-On Kit for VB7HV, 1/2" NPT - Used with Sound Deadening Enclosure
VRV-112-KIT-9-SDE	VRV-112-EA	Vacuum Relief Valve Add-On Kit for VB9HV, 1/2" NPT - Used with Sound Deadening Enclosure
VRV-2-KIT-8/11	VRV-2-EA	Vacuum Relief Valve Add-On Kit for VB8HF or VB11HV, 2" NPT
VRV-2-KIT-8-SDE	VRV-2-EA	Vacuum Relief Valve Add-On Kit for VB8HF, 2" NPT - Used with Sound Deadening Enclosure