

Vacuum Relief Valves



Relief Valves for Regenerative Vacuum Pumps

Vacuum handling of non-porous loads may cause a vacuum pump to 'dead-head'. Most vacuum pumps are not designed for operation under this condition. ANVER Vacuum Relief Valves are designed to protect the vacuum pump from internal damage by preventing this situation. These valves allow a small amount of air into the vacuum pump which cools the pump. The valves work by opening to atmosphere at a predetermined vacuum level. All relief valves can be set to provide the proper protection for our vacuum pumps. The relief valve can be mounted anywhere in the system manifold.

Features:

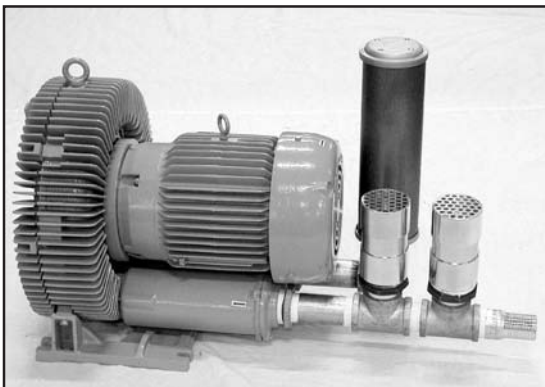
- Rugged all plated steel construction for long life
- Valves can be reset by user as needed
- Vibration resistant - Hold their settings
- Operational range from 7 in. to 16 in. of Hg (For lower levels, as low as 2 in. of Hg, vacuum relief valves must be used in parallel)

| ANVER Item No. | Use with Vacuum Pump Model No. | Overall Height in. (mm) | Diameter in. (mm) | Thread Size |
|----------------|-----------------------------------|-------------------------|-------------------|-------------|
| VRV-112 | VB3HF, VB4HF, VB7HV, VB8HF, VB9HV | 6.00 (152.4) | 2.12 (51.9) | 1-1/2" FNPT |
| VRV-2 | VB4HF, VB7HV, VB9HV | 7.38 (180.8) | 2.19 (55.7) | 2" FNPT |
| VRV-3 | VB8HF | 6.56 (160.7) | 3.75 (91.9) | 3" FNPT |

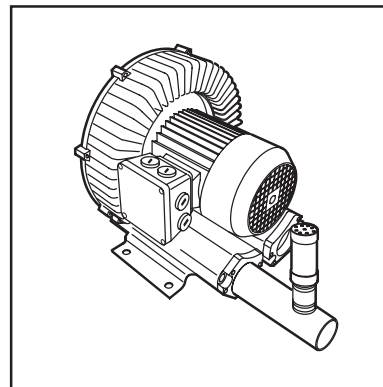
Setting Information: In most cases, initial settings for the valve should be set slightly below the pump's maximum vacuum level. Application type and user preferences determine what the maximum level should be. Load capacity must be adjusted accordingly, based on achieved vacuum at the vacuum attachment point.

Need more Flow?: If you need to get to a lower vacuum level or flow rate than the operational range from 7 in. to 16 in. of Hg you can double them up as the photo above shows. Using a vacuum gauge and flow meter is recommended to set the valves in critical applications.

Pressure Applications: If you are using an ANVER Vacuum Pump as a blower, we can offer these relief valves as Pressure Relief Valves instead. They are dimensionally identical and similar in price.



Example of Valves Used in Parallel



Vacuum Application