



Key High Vacuum Products, Inc.
PEV series Piezoelectric Gas Flow Valve

Features:

- Stainless steel construction
- 0 to 525 sccm
- Precise linear control flow rate
- Suitable for all dry non-corrosive gases compatible with materials

Description:

The Piezoelectric Gas Flow Valve Model PEV-1 is a high precision gas leak valve which uses a piezoelectric bender element that responds directly to a voltage signal, which causes the opening and closing of the valve. The piezoelectric bender element responds within milliseconds to a negative voltage signal of 0 to (+) 100 VDC. All PEV-1 valves have a two micron filter on the inlet, Viton seals and a coaxial BNC connector (Kings KC-79-117). The threshold voltage of the valve is (+) 20 to (+) 30 VDC, maximum voltage is (+) 100 VDC and inlet pressure should not exceed 50 PSI.

The PEV-1 Series valves are designed to be fail-safe. In the event of a power loss, the PEV-1 will close and remain closed until power is restored to valve. All valves manufactured by KEY HIGH VACUUM PRODUCTS, INC. are leak tested on a helium mass spectrometer at 3×10^{-9} Torr with a one-atmosphere differential and exhibit no leakage.



PEV-1 Ordering Information

- | Part Number | Description | Price |
|-------------|---|-------|
| PEV-1 | Piezoelectric Valve 1/4" Swagelok Fittings | |
| PEV-1-VCR | Piezoelectric Valve 1/4" Male VCR's | |
| PEV-1-001 | Replacement Viton Seals | |
| PEV-1-002 | Inlet Filter 2 Micron | |
| PEV-1-003 | RG-188 Cable 10 Foot with One Mating Connector Only | |
| PEV-1-004 | 1/4" FNPT Inlet Fitting & 1/2" OD Tube Outlet Fitting | |

