

Vacuum Insulated Evaporator (VIE) Control Panel

Pneumatech MGS VIE Control Panels are intended to supply oxygen pipeline installations complying with UK DoH Health Technical Memorandum No. 2022 or 02-01, BS EN ISO 7396-1.

VIE Control Panels are available in a duplex configuration, with one standby and one duty regulator set. The VIE Control panel is designed to accept a supply of gaseous oxygen from the VIE at 1050 kPa (10.5) bar or from the standby manifold at 850 kPa (8.5 bar) and to reduce the pressure to a nominal 420 kPa (4.2 bar) pipeline distribution system pressure.

VIE Control panels are designed to regulate line pressure based on two pipe sizes: Ø 22mm and Ø 28mm, sized for different flow rate capacities

Classification

- VIE Control Panels are designed to HTM 2022 and HTM 02-01
- CE marked 0088

Features

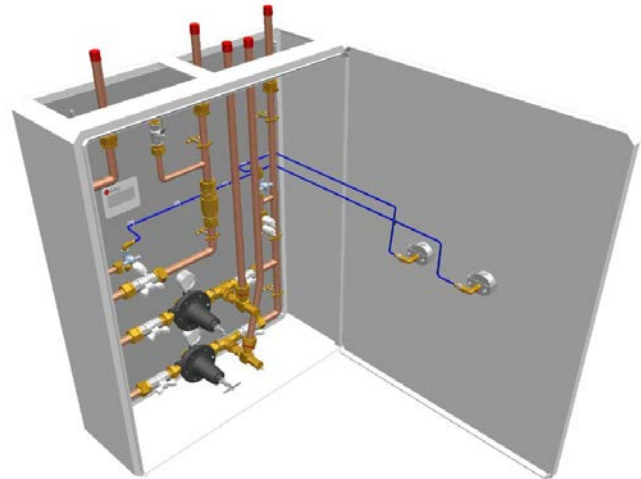
- All components degreased for oxygen use
- Quarter turn ball valves die cast nickel plated brass alloy body with nitrile seals
- Non relieving Regulators 28 bar rated
- High lift brass safety relief valve, BSP threads
- Gauge monitoring 0 to 11 bar bottom entry connection
- In line filtration

Services for Use

- Oxygen

Mounting

- Mounted on a light weight mild steel zinc plated and passivated back plate assembly
- Weight – 30kg



Construction

- All components degreased for oxygen use
- Mild steel powder coated enclosure with inlet and outlet pressure gauges

Pressure Switches

- Pressure switches monitor inlet pressure
- Pressure switches monitor line pressure (Separate high and low switches)

Pressure Reduction Capacity

- Maximum inlet pressure: 28 00 kPa (28 bar)
- Outlet pressure reduced to: 420 kPa (4.2 bar)

Relief Valve Settings

- Nominal 4 bar stations - 5.5 bar relieving

Part Numbers

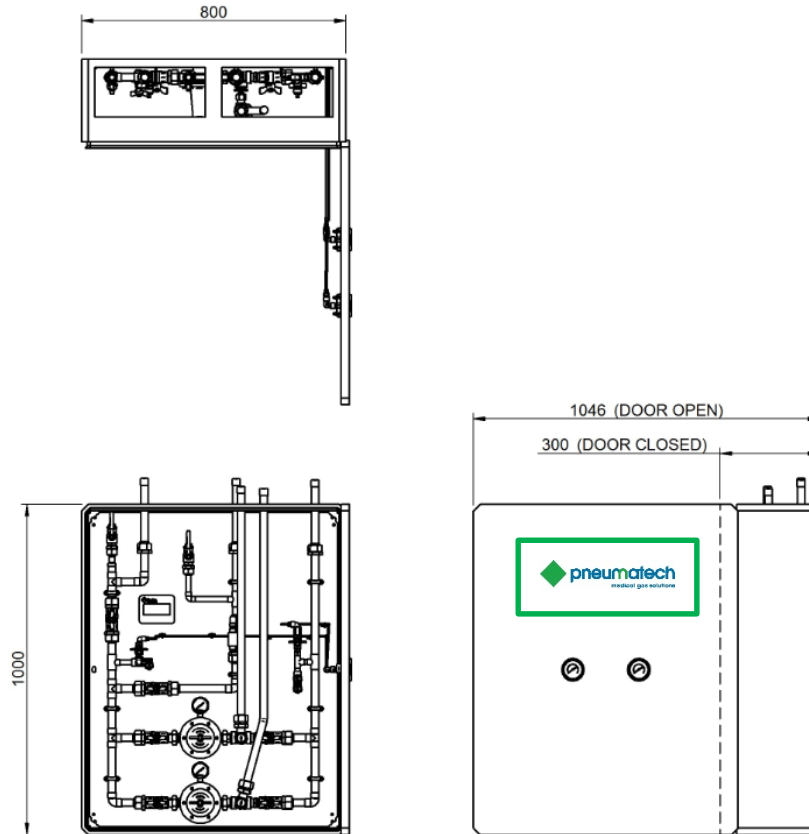
Part No.	Inlet/Outlet Pressure	Flow	Connection Sizes
3269633	10 - 4 bar	2500 L/min	Ø 22mm
3269634	10 - 4 bar	3500 L/min	Ø 28mm



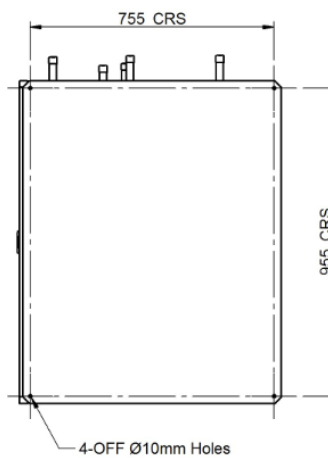
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Installation

All dimensions are common to 15mm, 22mm and 28mm VIE Control Panels



Mounting Dimensions



Regulators

Used to provide a convenient and low cost method to reduce a supplied air pressure to a desired outlet pressure and transform a fluctuating air supply to a relatively constant reduced air pressure within the operating range of the regulator. This type of regulator is generally used in a wide variety of applications where reduced pressure is highly desirable for energy conservation, safety requirements, air circuit control and air instrumentation.

Operation

Turning the adjusting knob clockwise forces the main spring downward onto the flexible diaphragm which presses down onto the valve stem. The diaphragm and valve stem move downward forcing the balanced valve off its seat, which allows air to flow past the valve to the outlet side of the regulator and downstream to the air system. A precisely positioned aspirator tube communicates secondary pressure to the diaphragm resulting in instant compensation in order to maintain the desired secondary set pressure. The diaphragm, valve stem and valve move upward, compressing the regulating main spring. Upward movement stops when the spring force acting on the diaphragm balances the pressure force acting below the diaphragm. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

