



Zeus AVSU

Area Valve Service Units & Modules

Providing one point of isolation of gases

The Pneumatech Medical Gas Solutions (PMGS) Zeus AVSUs provide local gas isolation during installation, maintenance, or in the event of an emergency. The AVSUs are fully compliant to the requirements of BS EN 737-1, BS 5682:1984, HTM 2022 and C11.

Design

The Pneumatech MGS Zeus Area Valve Service Unit (AVSU) incorporates a valve with NIST (Non-Interchangeable Screw Thread) connections at either side, mounted in a lockable box with an emergency plastic “Pull Out” front, the valve is completed with stub pipes that extend to the outside of the box to enable easy connection to the medical gas pipeline system (MGPS).

The internal ball valve design is suitable for any location. It can easily be serviced from the front of the valve thereby avoiding the necessity of valve removal for repair or maintenance. The seats are made as a one-piece insert to ease maintenance.

Safety

To ensure the safety, Pneumatech MGS makes use of clear labeling and colour coding on the Zeus AVSU, to help staff in potential emergency situations. The AVSU provides a single point isolation unit for each individual gas/service pipeline within an area zone. The design of the unit permits the facility to detect an emergency or unauthorised access.



Zeus AVSU Box

The Zeus valve box has a universal backplate for first fix mounting and an injection moulded cover, which fits over the installed valve.

Zeus AVSU Door

The modern looking AVSU door features a wide opening allowing easier access to the internal pressure switches. The door incorporates a quick release mechanism for emergency access to the valve.

Zeus AVSU Service Identification

A colour coded service identity label is fitted behind the valve handle.

Operation

In everyday situations access by key permits easy operation of the shut off valve, access to the NIST connectors up and down stream of the valve and access to the interchangeable spades.

In case of emergency the shut valve can safely be accessed by means of the emergency release. The metal enclosure of the Zeus AVSU provides durability and fire resistance.

Zeus AVSU modules

The Pneumatech MGS Zeus AVSU Module consists of up to 6 ball valves, with NIST connectors on each side, and an optional Area Alarm, mounted in a powder coated steel enclosure. The ball valves are individually accessible via lockable doors with emergency access facilities.

Gases and services

The Zeus AVSU module creates an independent zone within the gas pipeline system, which can offer up to six different gases.



Installation

Simple pressure switch adjustment, aids commissioning. The Zeus AVSU module includes all internal pipework with stub pipes for ease of installation using inert gas jointing procedures.

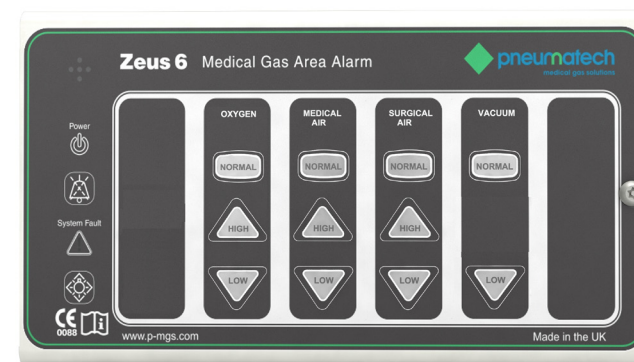
The gases and services Pneumatech MGS provides:

- Oxygen
- Nitrous Oxide
- 50% Oxygen / 50% Nitrous Oxide
- Medical Air (400 kPa)
- Surgical Air (400kPA)
- Medical Vacuum
- Nitrogen
- Carbon Dioxide

Area alarm unit

The Area Alarm will provide indication of the pressure (Normal, High or Low) of the gas at the point of use by monitoring the internal pressure of the pipeline downstream of the AVSU Module. Monitoring will be by individual pressure switches for high pressure, low pressure and low vacuum, installed on the downstream side of the ball valve for each service.

The demands for ultra clean environments are at the forefront of any medical facility. The Zeus area alarm fascia label includes Biomaster and Verimaster, a long standing and trusted anti microbial additive to assist with the prevention of cross contamination.



Key Points
Plastic "Pull Out" safety window fitted as standard.
Cost-effective, easily installed solution, when upgrading existing facilities.
AVSU module available with Area Alarm.
Area alarm includes Anti-microbial additive.
One to six gases I services.

Compliance
HTM02-01, HTM2022, C11 and all related BS EN ISO standards.

Easy installation
Usage inert gas jointing procedures.
Simple pressure switch adjustment.
Pre-piped and pressure tested.

Options
Wall mounted, surface or flush fitting.
Anti-tamper device (only for AVSU module).

Service and maintenance
Throughout the UK our network of service engineers provides full Service and Maintenance support of the highest quality.
Outside the UK our fully trained distributors provide a similar local service.
Comprehensive one year warranty and technical support.

Formerly known as Penlon Medical Gas Solutions



www.p-mgs.com

The colour of the actual products may vary from the colour shown in this brochure. Slight differences in detail might appear.