

East and Zeus Area Valve Service Units



East Area Valve Service Unit



The Penlon 'East' and 'Zeus' AVSUs provide local gas isolation during installation, maintenance, or in the event of an emergency

- ◆ Complies with BS EN 737, BS 5682:1984, HTM 2022, HTM02 and C11
- ◆ Reliable and easy to operate
- ◆ NIST connectors facilitate easy purge, sample and pressure testing, and emergency supply system
- ◆ Easy site installation with prefitted stub pipes
- ◆ 'Break Glass' access to isolation valve as standard
- ◆ Optional door status monitoring on Zeus AVSU
- ◆ Optional emergency access mechanism on Zeus AVSU
- ◆ Optional pull out plastic window on East AVSU
- ◆ Two year warranty

Partnership for Life

Product Summary

The Penlon Area Valve Service Unit (AVSU) shall incorporate a valve with NIST (Non-Interchangeable Screw Thread) connections at either side, mounted in a lockable box with an emergency 'Break Glass' front, the valve will be complete with stub pipes that extend to the outside of the box to enable easy connection to the MGPS.

The Valve will be constructed from Die-cast nickel plated brass alloy body, cap and stem with chrome plated brass alloy ball valve with Nitrile seats. Access to the seats and ball is through 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. The valve shall be able to operate from fully closed to fully open with a quarter turn of the handle.

The assembly shall be connected to the copper stub pipes by means of a flange, fitted with Nitrile O-ring seals forming part of the spade gaskets. The spades are supplied with **THROUGH** and **BLANK** stamped on their edges to identify type and so that they are easily identified. The stub pipes shall have the appropriate NIST connectors fitted each side of the valve.

The NIST connectors shall incorporate a metal to metal seal thus avoiding the possibility of degradation over time.

Product Features

Design Features

- ◆ Meets the requirements of BS EN 737-1, BS 5682:1984, HTM 2022, HTM02 and C11
- ◆ 'Break Glass' window fitted as standard
- ◆ Creates an independent sub-zone for an individual service within the hospital medical gas pipeline system
- ◆ Lightweight, attractive design suited to any location
- ◆ Valve serviceable from front
- ◆ Control valve only option for laboratory and industrial gases (ZEUS AVSU ONLY)

Easy To Install

- ◆ East AVSU:
 - Side entry with 22 mm or 42 mm stub pipes
 - Back, top or bottom entry with 22 mm stub pipes
- ◆ Zeus AVSU:
 - Side entry with 22 mm or 28 mm stub pipes
- ◆ Easy installation using inert gas jointing procedures

Normal Operation

- ◆ Access by key permits:
 - Operation of the shut off valve
 - Access to the NIST connectors up and down stream of the valve
 - Access to the interchangeable spades

Emergency Operation

- ◆ Safe access to the shut off valve by means of the emergency release
- ◆ Optional emergency quick release lock mechanism (ZEUS AVSU ONLY)

Easy to Use and Maintain

- ◆ Designed for installation at any location that allows departmental staff to view and access easily
- ◆ Staff can be easily trained in the use of the units

East AVSU Box - The 'East' valve box will be manufactured from 16 SWG steel, powder coated white and designed to avoid gas escape into the building structure by unitary construction of the back box.

East AVSU Door - The door will be fixed to the back box using a full-length hinge, pin-indexed to ensure non-interchangeability with other gases, it shall be louvered top and bottom to naturally ventilate the valve box.

The opening in the door shall be suitable for a plastic (pull-out) or glass insert to suit the customer needs. The whole door shall be secured in position with a key operated latch lock with the option of 200 key combinations.

East AVSU Service Identification - The whole of the AVSU shall be identified for its gas by an engraved trafficite label rivetted to the cover, and a gas identity label attached to the pipework.

Zeus AVSU Box - The 'Zeus' valve box will have a universal backplate for first fix mounting and an injection moulded cover, which fits over the installed valve.

Zeus AVSU Door - The door will also be injection moulded and will be common for all services. The door will incorporate a quick release mechanism for emergency access to the valve.

Zeus AVSU Service Identification - A colour coded service identity label will be fitted behind the valve handle.

Safety Features

- ◆ Clear labelling and colour coding helps staff in potential emergency situations
- ◆ Provides a single point isolation unit for each individual gas/service pipeline within an area zone
- ◆ Metal outer cover provides durability and fire resistance (EAST AVSU ONLY)
- ◆ Optional door status monitoring (ZEUS AVSU ONLY)
- ◆ Design permits the facility to detect emergency or unauthorised access (ZEUS AVSU ONLY)

System Upgrades

- ◆ A cost-effective, easily installed solution, when upgrading existing facilities

Gases and Services

- ◆ Oxygen
- ◆ Nitrous Oxide
- ◆ 50% Oxygen / 50% Nitrous Oxide
- ◆ Medical Air (400 kPa)
- ◆ Surgical Air (700 kPa)
- ◆ Medical Vacuum
- ◆ Other Gases (Laboratory/Industrial)

Mounting Options

- ◆ Wall Mounted, surface or flush fitting

Service and Maintenance

- ◆ Two year warranty from date of manufacture, excluding components designated as service items to be replaced by the customer as part of the published service schedule
- ◆ Throughout the UK our network of service engineers provides a full repair and maintenance service of the highest quality
- ◆ Outside the UK a similar local service is provided by our fully trained distributors

Ordering Information

Contact our Sales Office, or refer to our latest price list for part number and price information

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