

Installation, Operation and Maintenance Manual



Area Valve Service Unit Module-Wallzone

Part number 4233500241

Revision 03



BEACONMEDÆS®

Area Valve Service Unit Module-Wallzone

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Important

Personnel must make themselves familiar with the contents of this manual and the function of the unit before installing, operating or maintaining any Area Valve Service Unit Module-Wallzone.

Information contained in this manual is correct at the date of publication. The policy of BeaconMedaes is one of continuous product improvement. BeaconMedaes reserves the right to make changes that may affect instructions in this manual without prior notice.

For any enquiry regarding the servicing or repair of this device, contact the nearest accredited BeaconMedaes agent, or communicate directly with:

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Personnel must make themselves familiar with the contents of this manual and the function of the unit before installing, operating or maintaining.

Any complaints about the products or services provided by BeaconMedaes, please give as much of the following information as possible:

Product Part Number
Lot/ Batch Number
Approximate date of purchase
Apparent fault.

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Area Valve Service Unit Module-Wallzone

1. Safety Precautions

1.1 Warning

1. Read through these entire instructions before using or showing others how to use this equipment. As with all medical equipment, attempting to use this device without a thorough understanding of its operation may result in patient or user injury.
2. Do not attempt to modify this device in any way not strictly described within this manual.
3. Obtain a work permit before commencing any work on a medical gas installation.
4. No attempt should be made to use this product with a gas service or at a pressure other than as identified.
5. Do not use this product if it appears damaged in any way.
6. Do not use this product if there is evidence of contamination internally or on any of gas wetted connections (e.g. debris, particles, oil, lubricants or grease).
7. This equipment should only be installed, commissioned, operated and maintained by technicians who are suitably trained with medical gas systems, such as Competent or Authorised Persons as defined in UK Department of Health Technical Memorandum No. 02-01 (HTM 02-01).
8. Keep all components dry and clean during installation. BeaconMedaes AVSU can be safely handled and stored under normal working and environmental conditions. Adverse environmental conditions, harsh abrasives or chemicals may damage to the unit.
9. Incompatible oil and greases can auto ignite in pressurised oxygen. Do not lubricate this product with oil or grease. Safe and compatible lubricants can be obtained from BeaconMedaes if necessary.
10. The device can weigh in excess of 40 kg. Use proper lifting equipment and techniques where necessary. Failure to do so can result in personal injury or equipment damage.
11. In an emergency, break the pull-out window marked "**PULL IN EMERGENCY AND CLOSE VALVE**" to access and shut off the valve while the door remains locked.

1.2 Cautions

1. Check that the correct gas type union sub-assembly is fitted to the correct gas pipeline. Gas identity is stamped on the union and printed on the NIST label
2. Use of sub-standard or inappropriate parts and materials may damage the product and invalidate the warranty. Only use genuine BeaconMedaes spare parts.

3. Pressurised gas from the medical gas pipeline system may cause personnel injury or property damage if the unit is incorrectly operated or maintained.
4. Leak detection fluids contain surface active agents (surfactants) that can damage plastic components under stress. Only use leak detection fluids that are compatible with the materials being tested.
5. Always wash leak detection fluids off with clean water immediately after use.
6. Improper selection or use of the first fix mounting screws and fixings may cause the device structure to fall. Consult the suppliers advice for correct selection and installation.

Notes

1. All information, specifications and illustrations within this manual are those in effect at the time of printing.
2. The manufacturer reserves the right to change or make improvements without notice and without incurring any obligation to make changes or add improvements to products previously provided.

Scope of this manual

This manual describes the Operation Service, Repair and Testing of the Area Valve Service Unit Module-Wallzone.

BeaconMedaes service contact

In the event of any queries or problems that cannot be resolved using information in this manual, please call: +44 (0) 1246 474 242

Quote if possible, the:

- Product part number
- Lot/ Batch number
- Approximate date of purchase
- Apparent fault

Abbreviations used

The following abbreviations are used in this manual:

Abbreviation	Full name
HTM	Health Technical Memoranda
BS	British Standard
MGS	Medical Gas Solutions
MGPS	Medical Gas Pipeline Systems
NIST	Non-Interchangeable Screw Thread

Identification

The Area Valve Service Unit Module-Wallzone is identified by a label on the back plate of the Modular unit back plate.

Area Valve Service Unit Module-Wallzone

1.3 Identification of symbols

The following symbols apply to this product and are used in these instructions and on the product in question. The meanings of these symbols are as specified below: -

Symbols	Title
	Manufacturer
	Date of manufacture
	Authorized representative in the European Union
	Batch code
	Catalogue Number
	Serial number
	Protect from heat and radioactive sources
	Keep dry
	Temperature limit
	Humidity limitation
	Atmospheric pressure limitation
	Caution
	Unique Device Identifier
	Do not use if package is damaged and consult instructions for use
	Keep away from sunlight
	Lower limit of temperature

	Upper limit of temperature
	Biological risks
	Consult instructions for use or consult electronic instructions for use
	Medical device
	Do not dispose of in general waste

2. Description

Device Description

The device is intended to work in conjunction with other devices within the medical gas pipeline system (MGPS) to assist with maintaining continuity of medical air supply throughout the hospital to local connection points for eventual introduction into the human body.

Intended Use of the device

The device controls the gas pressure within the specification as required by the MGPS. In all cases other devices outside of this scope are connected downstream of the MGPS are required to control the final gas pressure and flow requirements for safe supply to the patient. Therefore, this device is not intended to control supply parameter hazards directly to the patient, only to the MGPS.

Intended patient population

The device is intended to be used in conjunction with other medical gas and vacuum pipeline equipment in hospitals and have no direct contact with patients. MGPS supply to medical equipment which can be used across any populations & all age groups

Intended user profile

Area Valve Service Unit Module-Wallzones are intended for use by appropriately qualified and trained personnel only who have undergone relevant 'HTM 02-01 Authorised Person' (AP) training regarding the safe use of medical gas supply systems.

The device should only be installed, commissioned, operated, and maintained by technicians who are suitably trained with medical gas systems, such as Competent or Authorised Persons as defined in UK Department of Health Technical Memorandum No. 02-01 (HTM 02-01 Part B: Operational Management). The device is intended for use by appropriately qualified technical personnel only. This condition is emphasised in the IFUs.

Reference: HTM 02-01 Medical gas pipeline systems – Part B: Operational Management.

Authorised Person (MGPS)

4.21 The Authorised Person (MGPS) is defined as that person designated by the Executive Manager to be responsible for the day-to-day management of the MGPS at a particular site or sites. This includes the issue of permits in accordance with the permit-to-work procedure. The principal responsibilities of the Authorised Person (MGPS) in respect of the permit-to-work procedure are set out in paragraph 6.91. The Authorised Person (MGPS) also has specific duties with regard to VIE installations (see Appendix E).

Competent Person (MGPS)

4.40 The Competent Person (MGPS) is the person who carries out the installation and/or maintenance work on the MGPS. A list of his/her responsibilities and duties is set out in paragraph 6.92. The Competent Person (MGPS) should have received appropriate training and should be on a list of Competent Persons (MGPS). In the case of directly employed labour, this list should be held by the Authorised Person (MGPS); in the case of contracted labour, it should be held by the contractor's Authorised Person (MGPS) or project manager.

Indications

Area Valve Service Unit Module-Wallzones are used as part of MGPS where an uninterrupted supply of medical gas and vacuum is required. The medical device works in conjunction with other medical devices for the immediate and reliable delivery of medical gas and vacuum to terminal units used for introduction or removal of gas and body liquids in healthcare facilities. In all cases there are medical devices installed between this device and the patient that controls the pressure and flow of gas and vacuum to safe levels to and from the patient. This device therefore only delivers medical gas and vacuum within specification to the MGPS, not directly to the patient.

Contraindications

If the device sustains any damage or malfunctioning, the assembly or faulty part should be replaced completely. This ensures all damaged components are replaced.

Contraindications for use, warnings and precautions related to the safe use of the devices are detailed in the IFU supplied with the devices. These sections shall be read by the intended user before installing the device and starting to use it.

Environmental Conditions

Area Valve Service Unit Module-Wallzone can be safely handled and stored as per below temperature range. Adverse environmental conditions and harsh abrasives or chemicals may cause damage to the unit.

Storage temperature: 0°C to +40°C

Working temperature: 0°C to +45°C

2.1 Device Limitation

The AVSU and AVSU modules are designed for fixed indoor installation in medical gas pipeline systems compliant with HTM 02-01 and ISO 7396-1, providing continuity of supply by allowing sections of the medical gas pipeline system to be isolated while maintaining supply to the remainder of the system. They include gas-specific connections for alternative gas supplies in the event of primary source failure. Installation, operation, and maintenance must be performed only by trained personnel in accordance with manufacturer instructions and applicable standards. Use with non-approved gases, unauthorized modifications, or outside regulated healthcare environments is prohibited.

Area Valve Service Unit Module-Wallzone

2.2 Anticipated lifetime

The anticipated lifetime of shut-off valve is 15 years from the date of installation, assuming proper maintenance, service and environmental conditions are met. This estimate is based on product design, historical performance, and internal technical assessments.

2.3 Safe Disposal and Environmental Considerations

At the end of its service life, the Area valve service modules must be decommissioned and disposed of in accordance with local regulations for electronic and hazardous waste.

While the final responsibility for disposal lies with the healthcare facility or authorized service provider, the following guidance is provided by the manufacturer to support safe and environmentally responsible disposal:

- Ensure all gas supplies connected to the AVSU are safely shut off and isolated at the main supply source.
- Mechanical Parts (Brass or stainless-steel valves, copper pipe stubs, and fittings) can usually be recycled through appropriate waste channels.
- AVSU modules equipped with alarm functionality contain electrical and electronic components and must be disposed of in accordance with the WEEE (Waste Electrical and Electronic Equipment). For detailed disposal instructions, refer to the Medical Gas Alarm IFU.
- Packaging should be separated and recycled in accordance with local waste segregation policies (e.g., cardboard, plastic, protective foam).

If specific assistance is required for safe disposal, users may contact the manufacturer's technical support team

2.4 Features

1. The inlet and outlet pipes are connected by an isolation valve with two 'through' plates, a blank plate is supplied loose for maintenance/future works.
2. Forward facing NIST connectors with 'check' valves (not vacuum) plugs and caps, are also fitted.
3. The Area Valve Service Unit Module-Wallzone, greatly reduces installation times, with its local alarm pressure switches allows the ward staff to get immediate information on the actual state of the gas supply system.
4. For maintenance and repair work, individual parts of the system can be shut-off without interrupting the whole gas supply.
5. Pressure monitoring of the distribution system is done by pressure sensors, which trigger emergency alarm panels or alarm masters. The pressure statuses are indicated on the alarm panel.
6. During normal operation the shut-off valve is accessed via a key. In case of emergency, the valve can be accessed by pulling out the window and opening the door.
7. Within the Wallzone there is also access to NIST connectors up and downstream of the valve.
8. Ventilation slots in the unit prevent any build-up of gas in the event of a leak.

Area Valve Service Unit Module-Wallzone

2.5 General Description

2.2.1 Modular Unit with Local Alarm Panel



Figure 1 Modular Unit with local alarm panel

AVSU Wallzones can be supplied with any combination of gases, (with or without an alarm unit), incorporating up to six isolating valves per panel

2.6 Gas/ vacuum Identification

Each Area Valve Service Unit Module-Wallzone Valve line is gas specific. All have a gas specific colour identification on the valve fascia:

Colour	Gas Service
White	Oxygen
Blue	Nitrous Oxide
White / Blue	50% Oxygen/ 50% Nitrous Oxide
White / Black	Medical Air & Surgical Air
Yellow	Vacuum
Black	Nitrogen
Grey	Carbon Dioxide

2.7 Access to Valve

WARNING! AVSUs with a breakable pull out window should be accessed with great care (see Section 6).

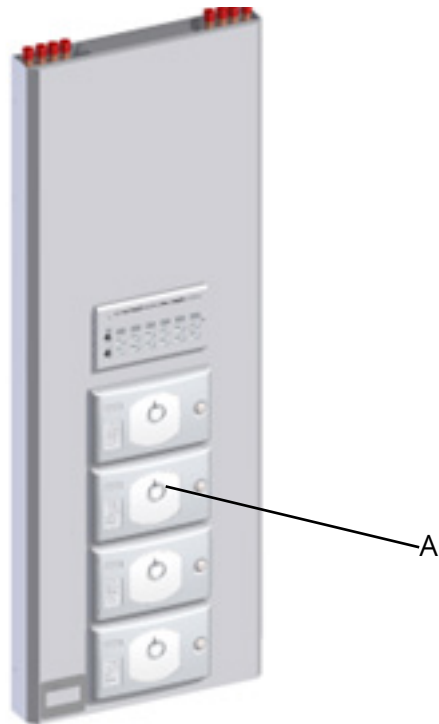


Figure 2 Valve access

During normal operation the shut-off valve is accessed via a key.

In case of emergency, the valve handle (A) can be accessed by breaking the window away from its securing tabs or operating the quick release mechanism and opening the door.

If specific assistance is required for safe disposal, users may contact the manufacturer’s technical support team

Area Valve Service Unit Module-Wallzone

3. Technical Specification

3.1 Technical Specification Table

AVSU Wallzones	
Physical Characteristics:	
Height	Varies with Model
Width	Varies with Model
Depth	Varies with Model
Weight	Varies with Model
Environmental Transport, Storage and Operating Conditions:	
Storage temprature	0 to 40°C
Humidity	10 to 95% R.H Non-condensing
Air pressure	Operating: 90 to 110 kPa
Mode of operation	Continuous (may be left on indefinitely)
Ingress Protection Class	IP4X – for indoor installation only
Degree of mobility	Permanently installed
Performance:	
Operating pressure range (operating)	Compressed gas: 0 – 8.5 bar
Vacuum:	-0.7 – 0 bar

4. User Responsibility

This device has been built to conform to the specification and operating procedures stated in this manual and/ or accompanying labels and notices when checked, operated, maintained and serviced in accordance with these instructions.

To ensure the safety of this device it must be checked and serviced to at least the minimum standards laid out in this manual. A defective or suspected defective product must not be used under any circumstances. The user must accept responsibility for any malfunction which results from non-compliance with the servicing requirements detailed in this manual. Additionally, the user must accept responsibility for any malfunction which may result from misuse of any kind, or non-compliance with other requirements detailed in this manual.

Worn, broken, distorted, contaminated or missing components must be replaced immediately. Should such a repair be necessary, it is recommended that a request for service advice be made to the nearest BeaconMedaes Service Centre.

This device and any of its constituent parts must be repaired only in accordance with written instructions issued by BeaconMedaes and must not be altered or modified in any way without the written approval or BeaconMedaes.

The user of this equipment shall have the sole responsibility for any malfunction which results from improper use, maintenance, repair, damage or alteration by anyone other than BeaconMedaes or their appointed agents.

5. Installation

BeaconMedaes Area Valve Service Unit Module-Wallzones should only be installed, commissioned, and maintained by technicians who are suitably trained with piped medical gas systems, and who are fully conversant with the contract specifications and safety procedures.

5.1 Environmental Conditions - Installation

WARNING! Keep all components dry and clean during installation.

WARNING! BeaconMedaes Area Valve Service Unit Module-Wallzones can be safely handled and stored under normal working and environmental conditions.

WARNING! Adverse environmental conditions and harsh abrasives or chemicals may cause damage to the unit.

5.2 Mounting

BeaconMedaes Area Valve Service Unit Module-Wallzones must be wall-mounted.

Units are supplied with pre-drilled fixing holes in the back box for mounting purposes.

Area Valve Service Unit Module-Wallzone

5.3 Dimensions

5.3.1 AVSU Wallzone

AVSU Wallzones are usually installed so that the top of the unit is flush with the false ceiling, which enables all the connections to be made out of sight.

Installation consists of mounting the unit using the back-plate provided and making the mechanical and electrical connections as required, then fitting the cover.

Note: The alarm panel, if fitted, will be 200 mm lower on a four-gas Wallzone than on a five-gas Wallzone.

5.3.2 Surface Mounted Area Valve Service Unit Module-Wallzones

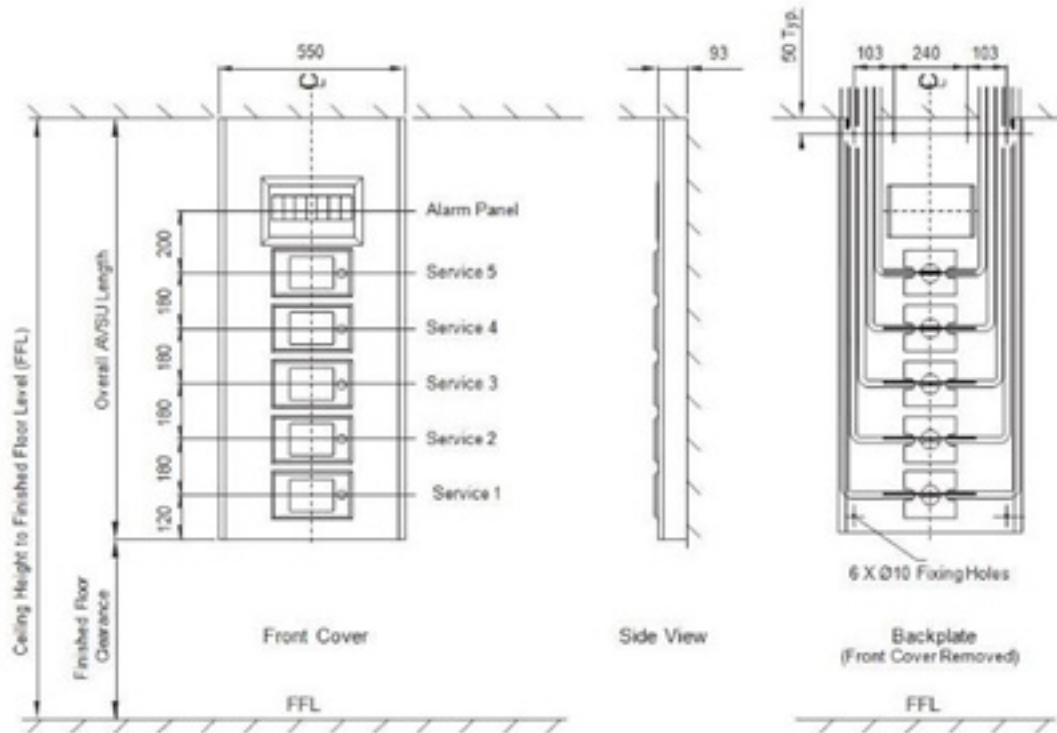


Figure 3 Surface mounted Area Valve Service Unit Module-Wallzone

5.3.3 Semi-Flush Mounted Area Valve Service Unit Module-Wallzone

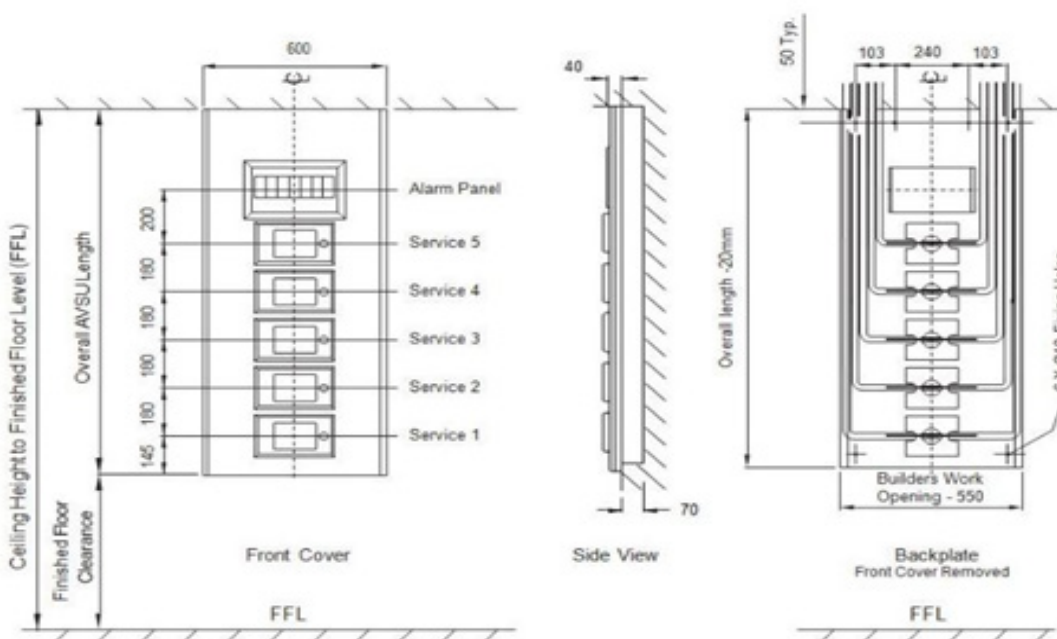


Figure 4 Semi-flush mounted Area Valve Service Unit Module-Wallzone

Area Valve Service Unit Module-Wallzone

6. Commissioning

6.1 Introduction

Commissioning is carried out in full after initial installation, after a major component change and as part of a planned preventative maintenance programme.

The object of commissioning is to ensure that all components are serviceable.

Personnel carrying out the following commissioning procedure must be qualified and fully conversant with the information contained in this manual.

6.2 Pre-use Test

6.2.1 AVSU Wallzone

- Check NIST is correct for gas type specified.
- Pressure test each gas line.
- Set up pressure sensors and test audible alarm operation.
- Check locks and visually inspect the general finish.

6.2.2 Pressure Test

- Pressure test to HTM 2022/ HTM02-01.
- Remove all pressure switches from the gas line before testing the system.

Pressure switches are factory set to HTM2022/ HTM 02-01, however due to the nature of pressure switches these settings may need to be checked at commissioning and adjusted as necessary.

6.3 Pressure Switch Fitting – Area Valve Service Unit Module-Wallzone

Pressure switches can be connected either to the left or right side of the valve as required.

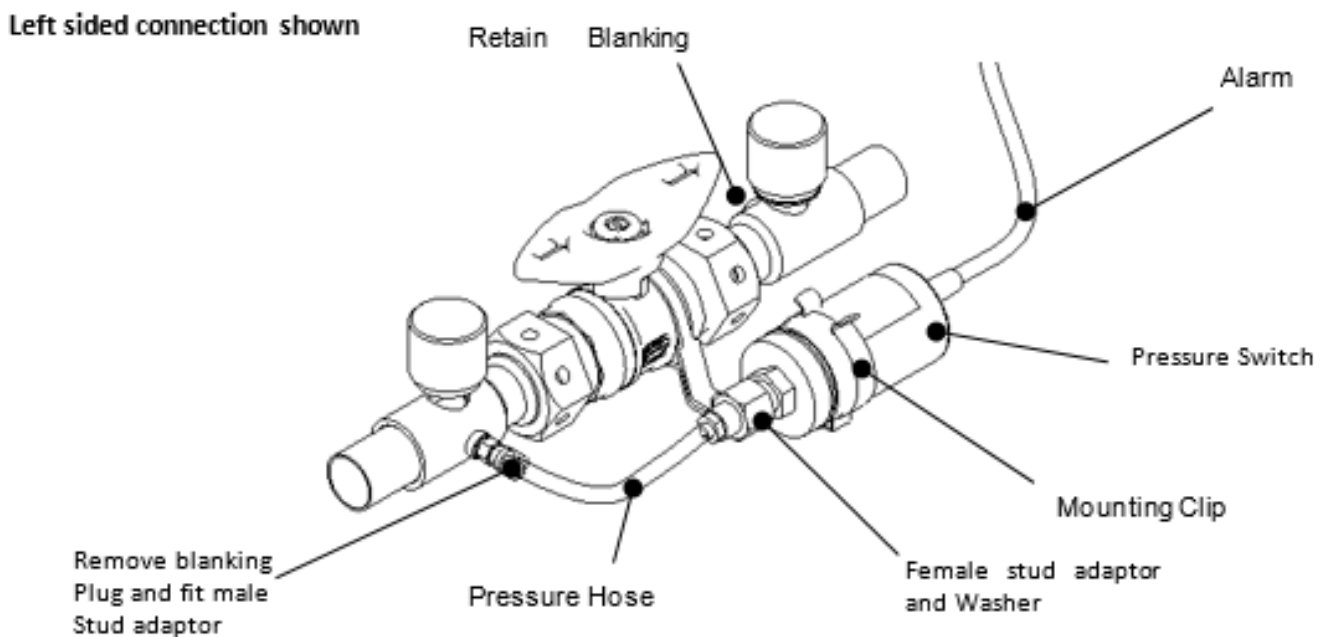


Figure 5 Pressure switch fitting

1. Unpack the pressure switches and connect to the alarm leads (ref. Pressure Switch Installation Manual, Figure 2).
2. Fit the correct pressure switch into the retaining clip.
3. Remove the blanking plug from the pipeline and connect the switch and pipeline with tubing and connectors supplied.

Note: The pressure switch should be fitted downstream of the valve.

Area Valve Service Unit Module-Wallzone

6.4 Fitting the doors

Note: To ensure the doors are not damaged during transportation they are supplied separately with 4 off M4 screws which fit directly into the threaded connections on the front cover.

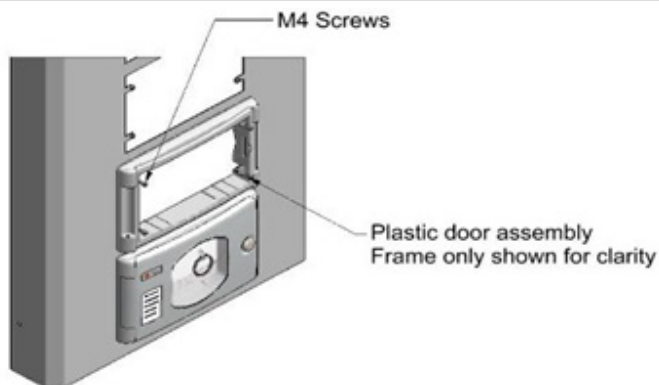


Figure 6 Modular unit door

7. Operating Instructions

7.1 General Information

When the unit has been installed and commissioned and the gas distribution system is in use, the AVSU door can be locked and the key/ keys placed in the control of an 'Authorised Person' as defined in HTM 2022 and HTM 02-01.

AVSUs are normally positioned at the entrance of the ward/ department. Staff in areas that have medical gas pipeline systems must ensure that they are aware of the location of each Area Valve Service Unit Module-Wallzone.

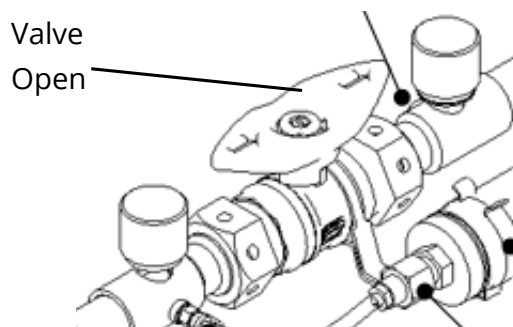


Figure 7-1 Valve fascia plate (open)

1. The valve fascia plate is marked OPEN and CLOSED.
2. The valve is fully closed when the handle is at 90° to the pipeline and fully open when the handle is parallel to the pipeline. The valve handle takes only a quarter turn from fully open to fully closed.

7.2 Isolation procedure

1. Confirm the areas to be isolated by the label adjacent to Area Valve Service Unit.
2. Check that patients connected to the system are provided with alternative gas supplies.
3. Inform the Authorised Person (MGPS) at the earliest opportunity after the emergency valve has been closed.

7.3 Emergency Access

7.3.1 Emergency Access – Breakable Pull Out window

The window is screen printed with "PULL IN EMERGENCY AND CLOSE VALVE".



Figure 7 Emergency access – Modular unit

Remove the window: the valve can be shut off whilst the door remains locked.



WARNING!

AVSUs with a breakable pull out window should be accessed with great care.

7.3.2 Fire Situation

In the event of a fire involving, or likely to involve, the MGPS or in the event of a fire situation which necessitates the area being evacuated, the Designated Nursing Officer/ Designated Medical Officer must be satisfied that the welfare of patients is not compromised before they perform the emergency.

8. Maintenance

8.1 Introduction

BeaconMedaes Area Valve Service Unit Module-Wallzones are designed to operate with the minimum of maintenance, however regular routine minor maintenance operations are recommended to prove the system integrity. Maintenance operations are carried out in accordance with the planned preventative maintenance contract purchased by the customer. Maintenance engineers must fully understand the operation of the Area Valve Service Unit Module-Wallzone and must be conversant with the information contained in this manual.

Service and Maintenance is limited to replacement of worn or damaged components.



WARNING!

USE OF SUB-STANDARD OR INAPPROPRIATE PARTS AND MATERIALS MAY DAMAGE THE AREA VALVE SERVICE UNIT MODULE-WALLZONE AND INVALIDATE THE WARRANTY. ONLY USE GENUINE BEACONMEDAES SPARE PARTS. WARNINGS! OBTAIN A WORK PERMIT BEFORE COMMENCING ANY WORK ON MEDICAL GAS EQUIPMENT.

8.2 Tools and equipment

No special tools are required, however all common hand tools used must be clean, completely free of oil and grease and checked for serviceability before commencing maintenance procedures. All necessary spare parts must be obtained before commencing work.

8.3 Routine Inspection, Checks and Maintenance

8.3.1 Cleaning

The use of abrasive or solvent based cleaning solutions is not recommended.

Cleaning external surfaces - use a damp cloth only. Mild soap solution may be used but detergent/surfactant solutions are not recommended.

8.3.2 Minimum Requirements

Minimum requirements for routine inspections, checks and maintenance are given in Table 8-1 and must be observed in full to ensure continued safe operation of AVSUs.

8.4 Repair

For maintenance and repair:

1. Unlock the door to gain access to the valve, NIST connector, and blanking plate.
2. Gas specific NIST hoses may be connected to either side of the valve whilst maintaining working pressure.
3. If it is necessary to remove a blanking/ through plate, the system must be de-pressurized on the side of the valve the plate is to be changed.

9. Fault Diagnosis

These mechanisms are extremely robust and if a unit fails to operate, it is probably mechanically damaged and should be replaced.

Gas leaks should be assessed and O-ring seals replaced as required.

Note: Failure through misuse or abuse is usually not repairable, and is not covered by the manufacturer's warranty.

10. Recommended Spares

For all Service Spares enquiries, contact the BeaconMedaes Spares Department,

giving as much of the following information as possible:

Product Part Number:

Lot / Batch Number:

Approximate date of purchase:

The only recommended holding of spares is detailed

Area Valve Service Unit Module-Wallzone

5 Yearly	Inspection, Checks and Tests		■	■	■	■	■	■				■	■
Annually		■	■	■	■	■	■	■		■		■	■
Quarterly		■	■	■	■				■		■		■
Monthly			■	■	■								
Weekly			■	■	■								
Daily			■	■	■								
Commissioning		■	■	■	■	■	■	■	■	■	■	■	■
Actions	Visually inspect the unit for damage or defects												
	Check security of the glass/door												
	Check the door is locked												
	Check integrity of breakable window												
	Check that the valve operates freely												
	Clean box internally using vacuum cleaner												
	Check blanking plate is in the box for future use												
	Check valve is correctly labelled re- area served												
	Check security of fixings/mountings												
	Check correct gas identification labelling and colour coding												
	Check NIST gas specificity using test probes												
	Electrical connection and supply integrity												
	Line Pressure Alarm Settings												

Table 8-1 Inspection and Maintenance Schedule

Table 10-1 / 10-2.

Table 10-1 Minimum Recommended Spares Schedule
Spare parts for Modular units

Description	Part Number
Internal Ball Valve	2003911
Through Plate (White)	2003924
Blank Plate (Red)	2003923
O'ring	2000152
Lock and Key Assembly	2003938
Bezel, Door and Window (w/o lock and key assy)	2003916A
Window Ring	2004023
BeaconMedaes door label	6070000489
BeaconMedaes door label	6070000654

12. Reporting Serious Incidents

In accordance with Regulation (EU) 2017/745 (MDR), a notice to the user and/or patient that any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

A serious incident is defined as any incident that directly or indirectly led, might have led, or might lead to:

- The death of a patient, user, or other person
- The temporary or permanent serious deterioration of a patient's, users, or other person's state of health
- A serious public health threat.

These events may occur during device use, due to device failure, malfunction, labeling error, or IFU omission.

User Responsibilities

The user or healthcare professional should report any suspected serious incident without delay (Immediately, but no later than 2 calendar days after the manufacturer becomes aware of the threat.)

If a serious incident is suspected, users must:

- Immediately discontinue use of the device, if safe to do so
- Retain the device (if possible) for investigation
- Notify the manufacturer without delay using the contact information below
- Report the event to the local competent authority of their country as required

Contact Information for Reporting Serious Incidents

- Manufacturer: www.beaconmedaes.com
- Support Email: BMCS@beaconmedaes.com
- Phone: 01246 474242
- Authorized Representative (EU): Atlas Copco Airpower n.v. Boomsesteenweg 957 2610 Wilrijk-Belgium
- Competent Authority: https://health.ec.europa.eu/md_authorities

11. Online access

IFUs are available in digital format on the BeaconMedaes official website HTML/ISO products (beaconmedaes.com), where the latest versions can be accessed and downloaded. For previous versions, end users may contact us via the "Request Information" section on the website.



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