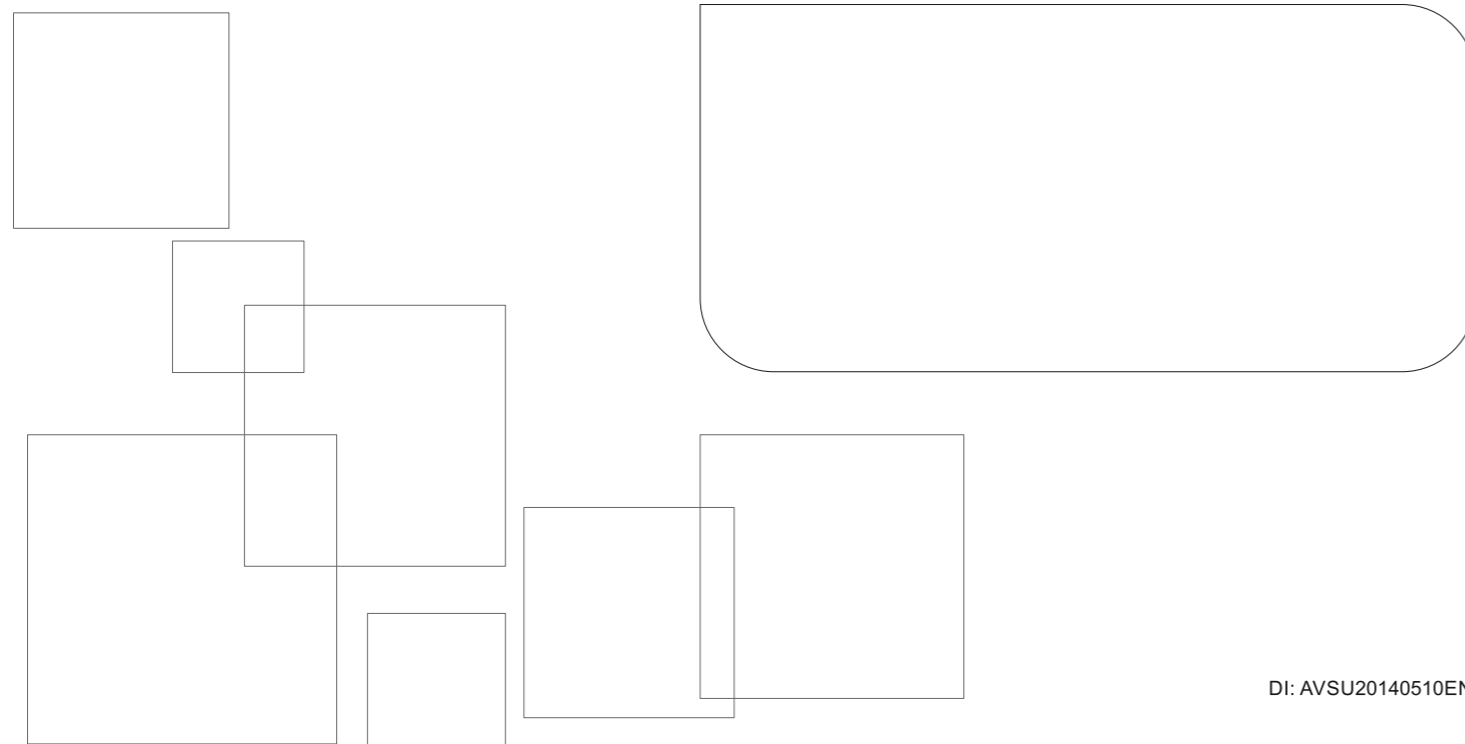
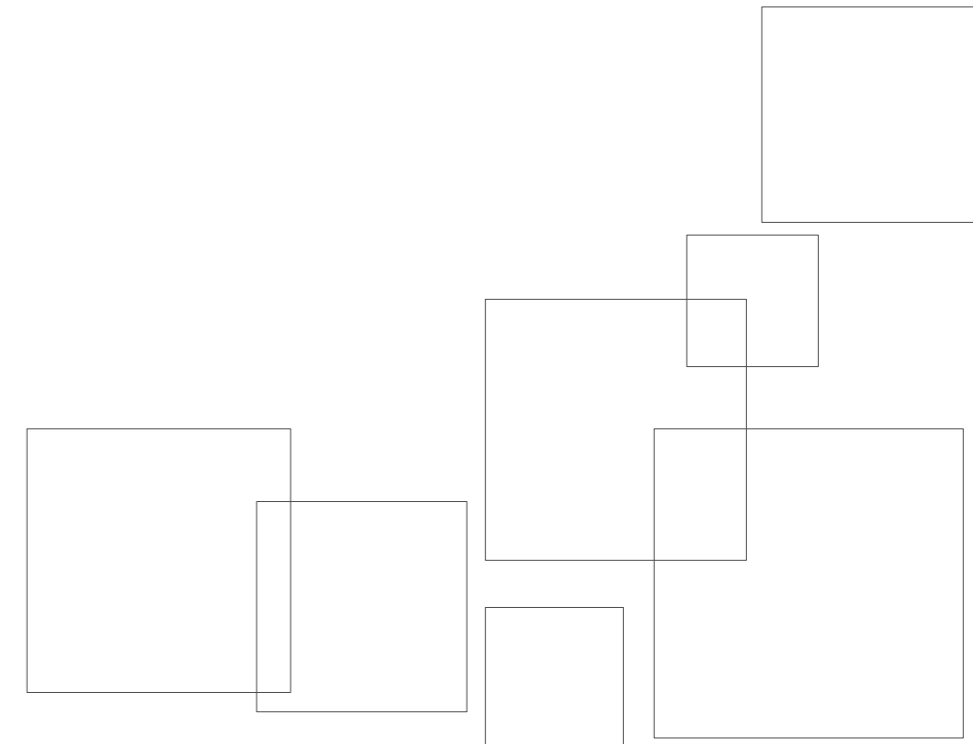


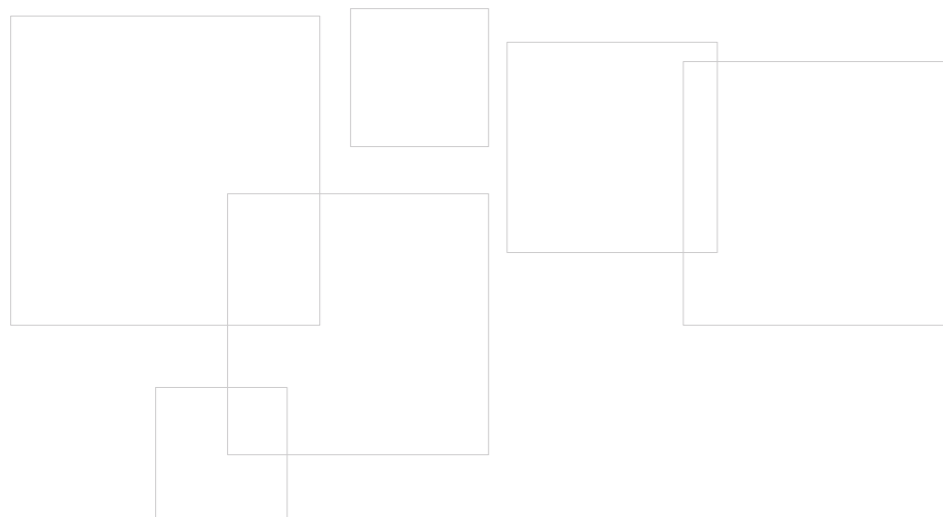
# MEDICAL GAS PIPELINE SYSTEMS

Area Valve Service Unit



DI: AVSU20140510EN





# INMED: experience

Inmed-Karczewscy is a result of over 30 years of experience, tradition and innovative attitude towards medical supply industry. The company was founded in 1980 s when some of us worked for former ZTM in Wrocław. The present company was founded in 1995 as Inmed and further on in December 2005, turned into Inmed-Karczewscy to point the label solidity, reliability and experience of Krystyna and Edward Karczewski. Since that our medical supply products meet the requirements of so called the new attitude directive and all products manufactured by the company meet the standards of ISO 9001 and ISO 13485 integrated Quality Management Systems (QMS). Nowadays we are Inmed-Karczewscy LLC LLP and our staff is over 70 best specialists in the field of medical supply products design and manufacture, managing the most sophisticated and challenging medical projects.



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## area valve service unit

AVSU medical gas monitoring and signaling systems called valve boxes provide activation/shutting off of medical gas flow, permanent monitoring of medical gas pressure including emergency supply of serviced area in the event of central medical gas supply failure. Valve boxes are fitted in all categories of operation theatre, including intensive care units, resuscitation units, and variety of wards (floors). Every valve box is equipped with key-lock, identical for all valve boxes provided in the serviced area. In the event of emergency each valve box can be opened by punching the lock directly.

# technical parameters

AVSU valve boxes are categorized in compliance with CE notified medical unit meeting 93/42/EEC IIb class medical unit directive.

They are delivered in configurations adjusted to medical gases provided in serviced area:

- O<sub>2</sub>; oxygen,
- AIR; medical air (5bar),
- AIR800; air for pneumatic surgery instruments (8bar),
- N<sub>2</sub>O; nitrous oxide,
- CO<sub>2</sub>;carbon dioxide,
- VAC; vacuum,

as well as other gasses including modifications in compliance with ISO 7396-1.

Basing on the design accepted there are two basic AVSU supply diameters: – d15 and d22 (alternatively from d18 to d28)

Standard AVSU valve box is equipped with:

- free of oil and grease shut-off valves (area) with convenient handle,
- pressure and vacuum contact manometers with emergency sensors of set less than +/-4% of tolerance (accuracy),
- key-locked door with an alternative emergency unlocking,
- Alarm Indicator Panel (AIP) mounted on the door with sensor of 24V DC supply,
- valve blocks with alternative zone shutting off while renovation or maintenance,
- emergency medical gas supply units located behind shutting-off valves.

AVSU valve box is available as supply-receive overhead-overhead and alternatively overhead-underhead option.

Sensors controlling signalizers are preset to the following pressure changes (for average supply pressure)

- |   |           |   |
|---|-----------|---|
| • O <sub>2</sub> , N <sub>2</sub> O, AIR, CO <sub>2</sub> | P: 0,5MPa | less than 0,4 and more than 0,6MPa        |
| • AIR800 , N800   | P: 0,8MPa | less than 0,65 and more than 0,95MPa      |
| • VAC   |           | more than -40kPa (60kPa absolute pressur) |



## contact manometer

For other supply pressures available in serviced area alarm activation point can be alternatively reset (in the range of +20%/-20% of set pressure). For the convenience of our customers valve boxes are equipped with in contact manometers with two easily setttable sensors (joints). To reset alarm settings once manometer protection glass is removed, it is enough to set one of red indicators to pressure level required.

Models available:

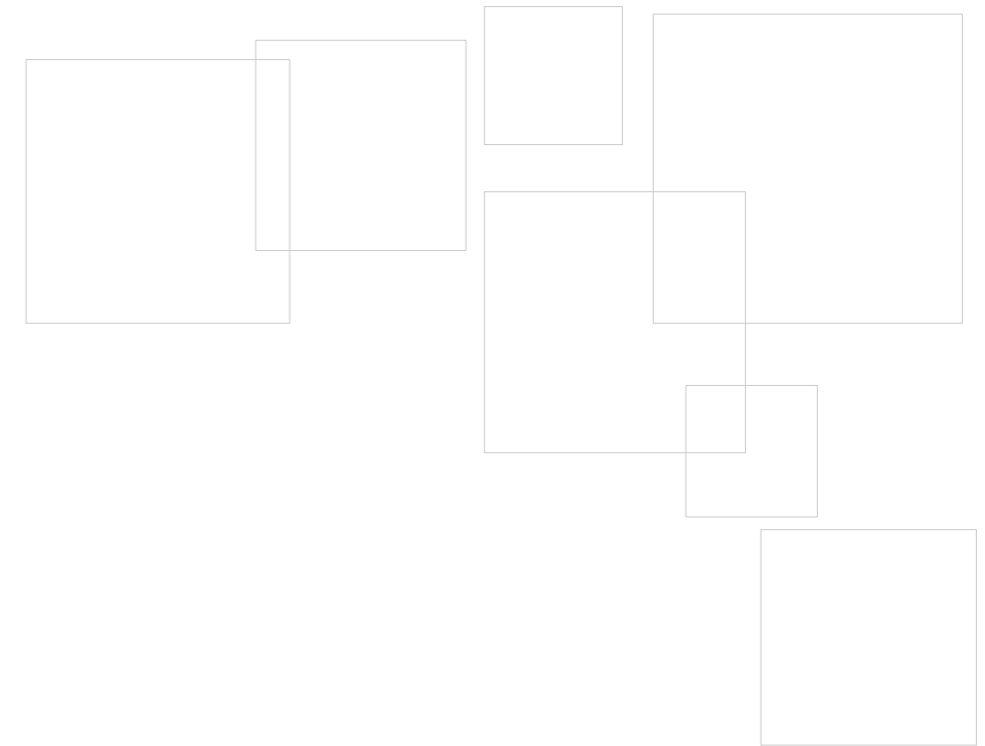
- valve box for -1; -2; -3; -4; -5; -6 gasses,
- valve box with outsider gas indicator outside,
- valve box without emergency supply indicators.



AIP - standard activity



AIP - test/alarm gas



# alarm indicator panel

AIP acoustic-visual signalizer of medical gas status indicates gas status by Liquid Crystal Display (LCD) touch screen. Clear menu enables quick and at hand reset of alarm activation sources including configuration of gas display order and unit testing.

It may be alternatively equipped with Building Management System (BMS) interface including permanent monitoring and pressure indication display in real time by interface with analog connection and by pressure converter: 4...20mA.

Technical parameters:

- Supply voltage: 24V DC
- Amperage 10mA standby to 45mA alarm stage
- Number of switch 5 pressure switch (min/max) + 1 negative pressure switch (min)
- Alarm activation by: outlet opening (alternatively pressure converters 4 ... 20mA)

AIP is designed for continuous activity and meets the following:

- RoHS 2002/95/WE,
- 93/42/EEC,
- EMC compatibility,
- ISO 7396-1,
- medical device class IIa.



configuration menu