

Area Valve Box for ISO Standard

BeaconMedaes produces a wide range of equipment such as our all new *Area Valve Box for ISO Standard* suitable for use in medical gas pipeline systems. Our *Area Valve Box* has been designed in accordance to the *ISO 7396-1* standard.

The purpose of these units is to both grant fast access to the pipeline in case of fire or any other malfunctions as well as monitor individual and central systems within hospitals. The *Area Valve Box* provide an inlet and outlet connection. In addition, the *Area Valve Box* allows the hospital and maintenance staff to physically isolate during downstream system repairs or maintenance situations.

The *Area Valve Box for ISO Standard* has a lightweight and compact design suitable for any modern hospital environment. The unit is easy to install and can be surface mounted on a finished wall or flush fitted into a stud wall.

Our *Area Valve Box* comes with an integrated alarm system.

Key features at a glance:

- Available in 1 to 7 gas service configuration
- Area valves are available in horizontal or vertical configuration
- Shut-off ball valve
- Integrated pressure gauges
- Metal box is equipped with a key lock and emergency opening
- Pressure switches continuously monitor the network pressure
- Integrated alarm module has both LED displays and programmable digital displays, fully complies with EN ISO 7396-1
- Provides fast access to the pipeline in case of a fire or any other emergency malfunction
- Compliance with EN ISO 7396-1



Gas Table					
	Gas	Gas Symbol	Color	Max Inlet Pressure (bar)	Min Inlet Pressure (bar)
* Vacuum gauge and vacuum switch must be disconnected, closing the connections with a cap, before pressurize (with positive pressure) the device.	Oxygen	O ₂	White	10	0
	Medical Air	ARIA/AIR	White/Black	10	0
	Nitrous Oxide	N ₂ O	Blue	10	0
	Carbon Dioxide	CO ₂	Grey	10	0
	Surgical Air	AIR-800	White/Black	20	0
	Vacuum	VAC	Yellow	5*	-1

Technical Data	
Suitable for the following gases	O ₂ , N ₂ O, Air, Air800, VAC, CO ₂
Nominal pressure	4 to 5 bar (O ₂ , N ₂ O, Air400, CO ₂); 7 to 10 bar (Air800); -1 to 0.4 bar (VAC)
Max inlet pressure	See the gas table
Min inlet pressure	See the gas table
Pressure loss (for compressed gases)	<0.01 bar at 30 Nm ³ /h; 0.02 bar at 40 Nm ³ /h; 0.04 bar at 50 Nm ³ /h
Pressure loss for vacuum	0.06 bar at 30 Nm ³ /h (max flow rate for vacuum)
Setting pressure sensors	MIN=3 bar/MAX=5.4 bar (O ₂ , N ₂ O, Air, CO ₂) MIN=6.4 bar/MAX=9.6 bar (Air -800) -0.5 bar (VAC)
NIST emergency/maintenance inlet flow rate (Nm ³ /h)	32 Nm ³ /h at 4 bar
Storage temperature	-20 to 60° C
Operating temperature	10 to 40° C
Storage humidity	10% to 95%
Humidity of use	40% to 80%
Inlet/outlet connection	Souldering coupler Ø 22 mm
Pressure gauge connection	G 1/8 F
Pressure switch connection	G 1/8 F
Cover box dimensions	See drawings
Box box material	White painted zinc sheet
Area shut-off valve are provided with physical isolation device	
Cover box with emergency opening	
Both LED type and programmable digital display type of integrated alarm systems are available	
Alarm power supply	230 vAC, 50 to 60 Hz
Standards	ISO 15001; ISO 7396-1
Degreased in accordance with ISO 15001	