



BEACONMEDAES®

Safeguard the continuity of your medical gas supply

Lifeline® Manifold Control System



The image shows a Lifeline MCS Manifold Control System installed in a clinical setting. It consists of eight tall, dark grey gas cylinders with white tops, arranged in two rows of four. A central white control panel with a digital display is mounted on the wall between the two rows. The background is a plain, light-colored wall. A large blue circular graphic is overlaid on the bottom right, featuring a blurred image of a healthcare professional in a surgical mask and cap.

The manifold you need

For a safe and reliable supply of medical gases the Lifeline® MCS Manifold Control System is the product you need, offering:

- Very high flow rate
- Compact design that fits into any space
- Two stage regulation system to maintain a smooth and constant delivery pressure
- Inherently corrosion resistant design, no sacrificial protection
- Colour graphical display with clear information and status notification
- Ease of access for maintenance

Manifold application

- Primary supply of medical gases
- Back-up supply for medical or surgical air systems

Gases

- Oxygen
- Nitrous Oxide
- O₂/N₂O 50/50
- Air 4 bar, 7 bar or 11 bar
- Carbon Dioxide
- Nitrogen 7 bar or 11 bar

Maximum flow capacity

(within the normal operating limits of HTM02-01)

- 1,800 l/min for the 4 and 7 bar manifold
- 2,000 l/min for the 11 bar manifold

Standards

- HTM02-01, HTM2022, C11, ISO7396-1

High **reliability**

Since the intermittent high flows apparent with medical gases can exert high strains on the internal components, the Lifeline® Manifold uses a regulator designed to cope with the rigorous demands of medical gas supply.

These regulators are specifically designed for the purpose of supplying medical gases and are highly reliable.



Reduce installation time

Integration and pre-installation of many components such as a pre-piped exhaust vent reduces installation time significantly. Additionally, the easy-to-use wall bracket allows for installation to be performed by a single person.



Increased safety

Fail-safe solenoid valves in the event of power supply failure.



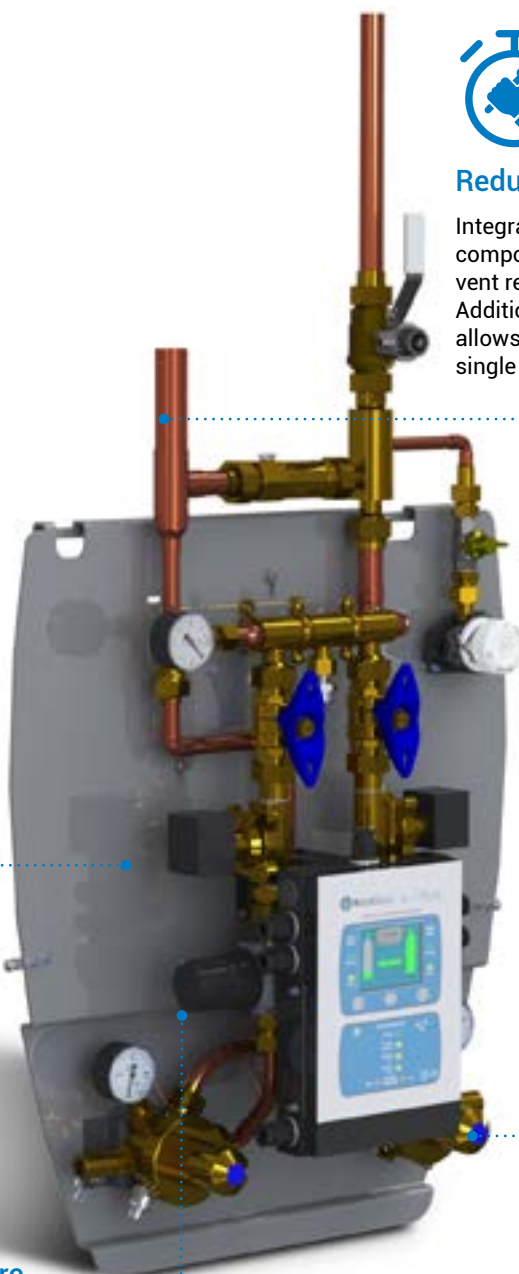
Peace of mind

Halogen free high-pressure regulators reduce the risks of self-ignition and emission of toxic gases.



Minimise risk of low pressure

Using two stage regulators to ensure stable delivery pressure over the entire flow even in peak demand.





Ergonomic set-up

Its light weight, high durable composite front cover can be removed effortlessly for easy access to the manifold's serviceable components.



Digitally control your Manifold



Easy operation

- Graphical display with extended lifetime
- LEDs indicating active bank and alarms
- Power indicator



Preventive maintenance

General service warning (every 40,000 h/5 years) with in-time reminder that reduces risks



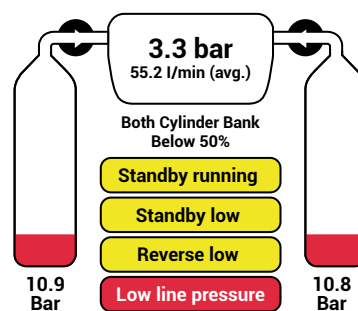
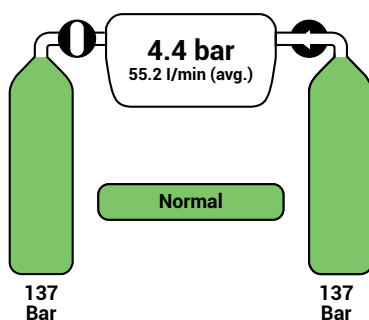
User-friendly interface

Gain full control via digital pressure indication in both headers and line. Pressure indications are available in bar or psi, hence no need for unit measure conversion.



Cost control

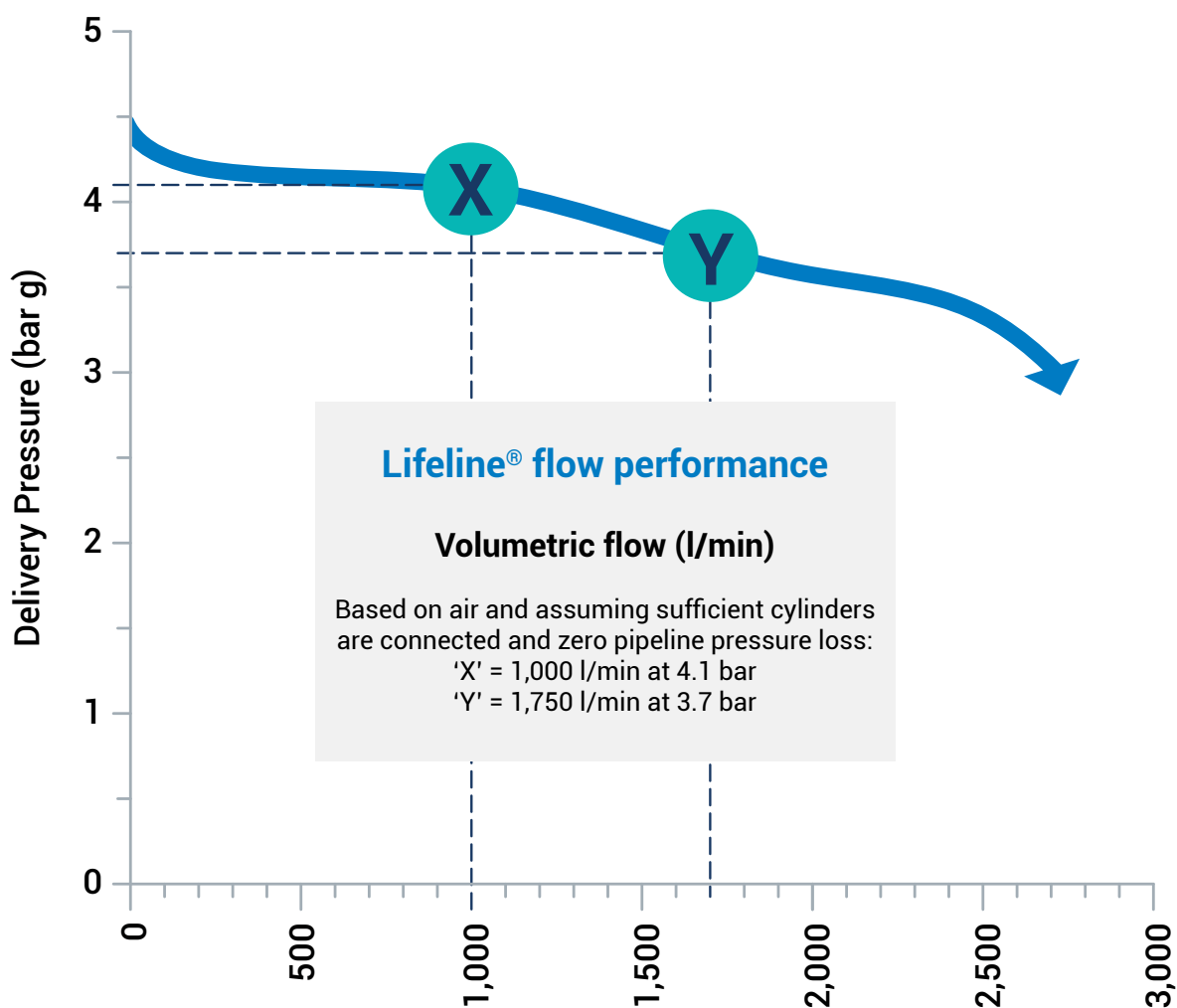
Visualisation of remaining gas volume in cylinders and average gas consumption will give you full control over your medical gas system.



Uninterrupted gas flow

The high flow regulators ensure a continuous flow of medical gases during peak demand. Two totally separate stages of pressure regulation provide the following advantages:

- Smoother flow characteristics are achieved by splitting the pressure regulation stages
- Downstream components are not subjected to shock loading





Simple to maintain

The carefully designed layout of the Lifeline® control panel allows unrestricted access to all the major serviceable components, without the need to disassemble any other joints. Ball valves are provided to enable regulator replacement without interrupting the flow of gas from the manifold.

Each component utilises flat face 'O' ring sealed joints, making swap out of components fast.

These features make the Lifeline® manifold the simplest manifold control panel to use and maintain. The control panel cover can be quickly removed, providing unhindered access to all internal parts.

Standard options

Heater Kit (N ₂ O & O ₂ /N ₂ O 50-50)	Protection against freezing of header rack and first stage regulator
High pressure bank valve kit	Enables complete closure of the full cylinder bank.
Tailpipes	Standard Ethernet, BACnet over Ethernet or Volt free contacts (open on fault).
Inputs and sensor types	Cupro nickel to prevent work hardening to BSP bull nose, Pin indexed, CGA and other norms.
Spare cylinder racks	Powder coated steel rack with cylinder fixing chain.



Life is in the details.®

