

Pipeline Inspection (Recommended every 3 months).

- Inspect the condition of the Pipeline for any damage i.e. damage to the probe, tubing, ferrules, outlets etc.
- Remove any pieces equipment from out of the outlets points.
- With the Pipeline connected to the Regulator, slowly open the cylinder valve to pressurise the Pipeline system. When pressurised close the valve and observe the Regulator's contents Gauge for any indication of a pressure drop. If the gauge needle drops, a leak is detected and the Pipeline will require servicing.

Cleaning (Recommended every 3 months).

- The Pipeline system requires cleaning on external surfaces only. PVC compatible cleaning Fluid may be used.
- Avoid cleaning fluid from entering into any Pipeline orifices i.e. Probes, Outlets etc.
- If cleaning fluid is used, apply cleaning fluid to a cloth/other. Dry immediately with a dry cloth/other after application.
- DO NOT use any Oil based cleaning fluids (Some soaps are oil based).

Service/Repair

Servicing should be only carried out by fully qualified technicians. For service enquiries and information, please contact our sales office. **NEVER USE FAULTY EQUIPMENT.** Preventative maintenance ensures safety for the patient and user.

Each system comes complete with a Mfg. 5-year Warranty (with possible extension). **Note: Based on MDA/2003/007, it is recommended that hoses are replaced after 5 years.**

7. Replacement Parts

- | | | |
|---------------------------------|------|--------------------------|
| a. Terminal Outlet Service Kit: | Ref: | TUK000 |
| b. Cylinder Key (Bull Nose): | Ref: | M202 |
| c. Cylinder Key (Pin Index): | Ref: | M223 |
| d. Tube Retaining Clips: | Ref: | TRC |
| e. Change-Over Valve: | Ref: | AP400 |
| f. Flowmeters: | Ref: | F1601/F1650/F1681 Series |
| g. Regulators: | Ref: | R1601/R1401 Range |
| h. Hose & Sleeve: | Ref: | Hose1 & Hose5/1 (Oxygen) |

Please Note: Always use Oxytitre Replacements Parts or CE marked products.

8. Technical Data

Required Gas supply:

- Oxygen: 4 Bar (58 psi)
- Air: 4 Bar (58 psi)
- Entonox: 4 Bar (58 psi)

Note: The hose material is phthalate free PVC and it is antimicrobial.



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Made in the UK

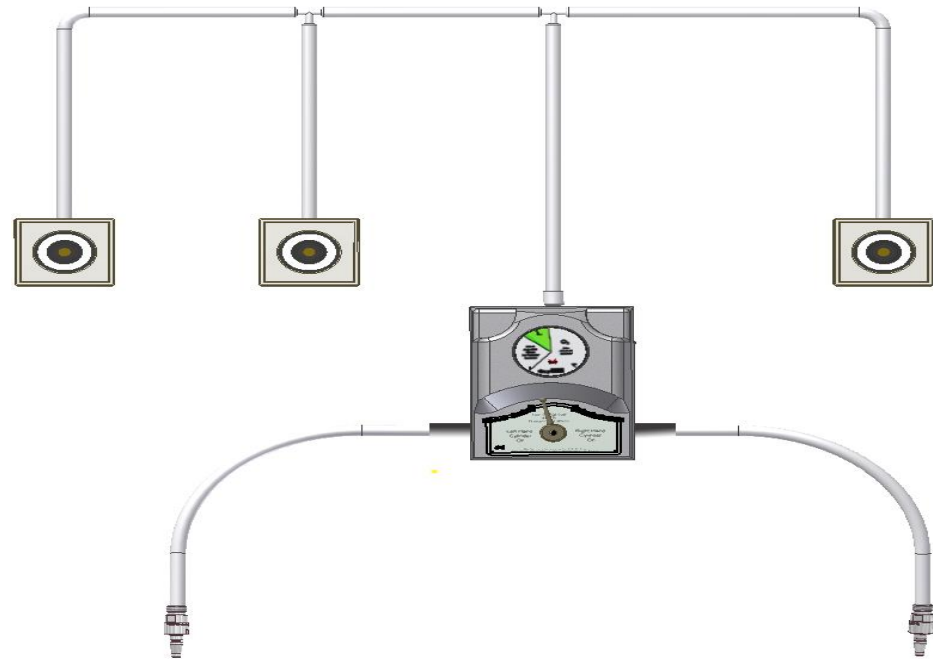


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AP Series Ambulance Pipeline Systems & Accessories

Operating & Safety Instructions



1. Introduction

The Oxylitre AP Series Ambulance Pipeline System has been designed specifically for medical use and complies with BS EN ISO 5359, BS 5682 and HTM 2022 Standards. The purpose of the Pipeline System is pacifically for supplying a medical gas to a designated area in an Ambulance for gas therapy. The Ambulance Pipeline Systems are available in Oxygen, Medical Air and Entonox that operate directly from a Gas Cylinder supply. Each system is available with an optional number gas terminal outlet points and with the flexibility of the anti-static tubing, the outlets can be fitted to almost any designated location within Ambulance. The Oxylitre Terminal Outlet Points are manufactured to BS EN ISO 9170-1 European Standards that accepts British and European Standard gas connection Probes. All Systems are manufactured to our customer specifications and each system is certified with an Ambulance Pipeline Test Certificate verifying that the quality of the product meet the specified requirements.

2. Pipeline Accessories

There are a number of accessories available which can be used an Ambulance Pipeline system. The product range is as follows:

- R1601 Series Regulators: used for reducing cylinder pressure and connection to the Pipeline System.
- F1601/F1650/F1681 Flowmeters: used for metering a gas flow to a patient.
- AP400 Series changeover system: is used for controlling the pressure source to the Pipeline supplied from 2 gas cylinders.

3. Safety Precautions for the Prevention of Fire & Explosion

When these products are used with an Oxygen supply, ensure the area is well ventilated to prevent high levels of oxygen accumulating. The Regulator or patient MUST NOT be allowed near any source of ignition i.e.:

- Cigarette/Cigar Smokers.
- Sparks.
- Naked flames.
- Open electrical appliances.



(This precaution applies during and after patient use).

Warning: These devices MUST NOT come into contact with any Oil or Grease; a reaction may cause an Explosion/Fire.

Note: No Phthalates are used in the manufacture of the flexible hose



4. Operating Instructions

Fitting a Regulator to a Cylinder

(Please also see the relevant Regulator operating instructions).

- Before connecting a Regulator to a Cylinder, momentarily open and close the Cylinder valve to blow out any accumulated dust or moisture. Also inspect the inlet connector seal for signs of damage, if required replace with the appropriate seal. (These should be replaced a least once a year). *Part No: OX010: Pin Index Inlet Connector Part No: BS110: Bull Nose Inlet Connectors*
- Connect the Regulator securely to the Cylinder.
- Open the Valve very slowly (approximately one full turn) to reduce the danger of explosion or fire arising from pressure shock.
- To test for leakage in the Regulator, turn off the Cylinder Valve (With the Pipeline disconnected) then observe the contents gauge for approximately 2 minutes. If the gauge needle drops indicating a leak, please contact Oxylitre for servicing recommendations. If no leak is detected, open the Valve as stated in section "c".

Connecting and Pressurising the Pipeline System

- Before connecting the Pipeline System to a Regulator, remove equipment that may be connected in any of the Ambulance Pipeline Outlet Points. This is achievable by holding the equipment with one hand and pushing the front of the outlet interlock with the other.
- Push the Gas Pipeline Probe into the Self Sealing Valve on the Regulator securely. (A small amount of gas may escape in this process). The Pipeline will then automatically pressurise and ready to use.
- Before inserting equipment back into Outlet Points, ensure the equipment is turned off and inspect the seating end of the Probe on equipment for signs of damage. (Damaged Probes will damage the seal inside the outlet points if used). Push the equipment into outlet Point until it is secured. (A small amount of gas may escape in this process).

Disconnecting the Pipeline Probe and the Regulator from the Cylinder

- Turn OFF the Cylinder Valve.
- Bleed off the remaining pressure in the Regulator. This is achievable by opening a valve on the equipment connected to the Pipelines outlet point (i.e. Flowmeter).
- When the indicator on the Contents Gauge has fully dropped, twist the Self Sealing Valve clockwise to release the Probe and disconnect the Regulator from the cylinder.

5. Change-Over Valve systems: Ref: AP400 (If fitted)

Introduction

The Change-Over Valve system has been designed to operate from two Gas Supply cylinders each having a Regulator fitted and connected to the Pipeline system. Only one cylinder can be operational at one time. When one cylinder becomes empty, the Change-Over Valve can be turned fully towards the full cylinder so that the empty cylinder can be disconnected and replaced. The Change-Over Valve is also fitted with an indicator gauge that indicates when the Pipeline is pressurised and ready to use. (This is indicated when the gauge pointer enters the "Green" area).

Please Note: The Ambulance Pipeline Systems are to be operated as stated in section 3 with the following precautions:

- When connecting a changeover valve probe to a Regulator (connected to a Cylinder), ensure that the changeover valve has been turned towards that particular Cylinder before pushing the probe into the Regulator's Self Sealing Valve.
- When disconnecting a probe from a Regulator ensure the changeover valve is turned towards the opposite cylinder.

Caution: Do not turn the Change-over Valve towards a pressured Cylinder when the opposite probe is not connected.

6. Servicing, Preventative Maintenance & Cleaning

An Ambulance Pipeline System forms part of an essential support system. The system must be treated with care and serviced on a regular basis, (i.e. preventative maintenance) to ensure the systems quality and reliability.

Regulator Inspection (Recommended approximately every 3 months).

- Connect Regulator to the Cylinder. (Please see section 3).
- Check the Contents of Cylinder that is indicated by the Pressure Gauge.
- Close the Cylinder Valve and observe the Contents Gauge for pressure drop. If the needle on the gauge drops, this indicates a leakage in the system. The device will require service or repair.