



## Pureline Medical Gas Hoses



### Key Features

1. Phthalate free hose
2. Standard 3.5mt, 5mt or made to measure assemblies
3. Including Gem 10 medical gas terminal unit
4. Oversized bore for surgical air and vacuum hose assemblies
5. High quality machined NIST adapters
6. Full range of gas services
7. Gas service kit accessories

### Benefits

- Prevents patient exposure to any potentially harmful phthalate vapours
- Suitable for any pendant application
- Reliability assured using the World's most trusted medical gas outlet
- Minimises pressure drop with a 63% increased bore size over conventional designs
- Provide an easy and assured connection to the gas service kit and outlet NIST connection eliminating leaks
- Available for all medical gas services including carbon dioxide and nitrogen
- For ceiling and pipe line connection including an internal check valve

*Life  
is in the  
details.*





## Why Choose BeaconMedæS Pureline™ Hoses?

### Problem Solved

Conventional hoses are made of plasticised PVC with a conductive inner layer. The conductivity was incorporated due to the explosive nature of some of the anaesthetic gases being used when the product was initially developed.

Modern anaesthetic gases are now virtually inert and therefore the risks of explosion have been considerably reduced. This coupled with a growing concern over the potential vapourisation and subsequent inhalation of phthalates, particularly in pregnant women and babies, has resulted in the development of phthalate free hose, that fulfils all the current requirements for medical gas hoses.

BeaconMedæS Pureline Hose assemblies are manufactured using the latest phthalate free hoses.

### Lower Pressure Drop

In recent years, pressure drop in surgical air systems has become a major concern. BeaconMedæS surgi-

cal air and vacuum hose assemblies are made with 'oversize' flexible hoses, giving a 63% increase in flow area over conventional hose designs, thereby minimising pressure drop to a manageable level. This ensures the surgeon has a higher flow of air at a higher pressure, enabling faster cutting speeds for high precision work.

### Exactly What You Need

There are many hose assembly types available to suit the replacement of hoses in any pendant system. We will manufacture hose assemblies in any length you need, and if we don't currently have a design that suits your application, we will be more than happy to discuss your specific needs.

### Hoses are a Necessity

The need to provide ergonomically designed work spaces has led to articulated and cantilever lift pendants proliferating in number in the most critical areas of patient care; intensive and critical care units and operating theatres.

### A Hidden Problem

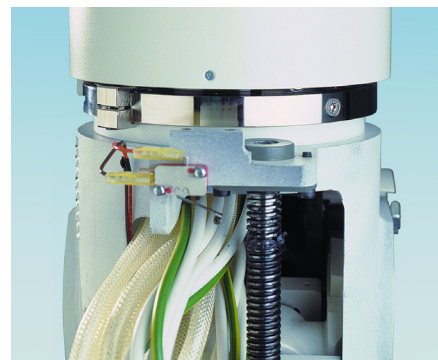
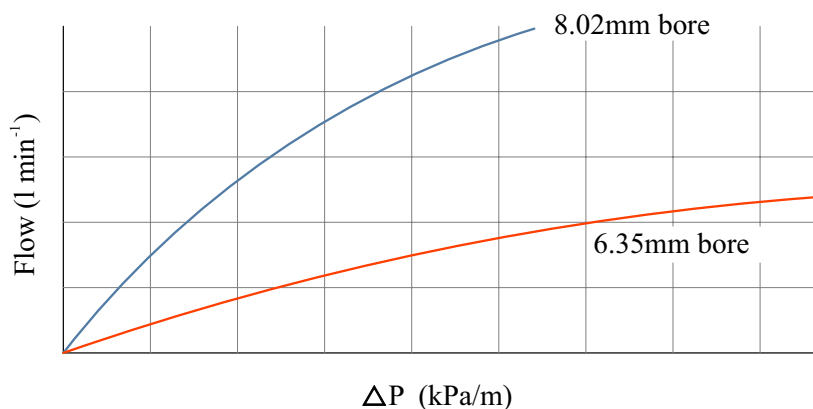
Well designed pendants require no maintenance at all, and will continue to operate for many years untouched. There is however an underlying and hidden problem - medical gas hose replacement. When installed in pendant systems, rotation and/or lifting of the arms over time can lead to rubbing and therefore wear, especially where hoses pass through the bearing joints, or by motor and drive mechanisms.

### Planned Replacement

The Medicines and Healthcare products Regulatory Agency (MHRA), issued Medical Device Alert ref. MDA/2003/007 in March 2003, calling for immediate action to be taken. Incidents of fires had been reported, and the cause was determined to be worn oxygen hoses. It is essential to replace medical gas hoses in line with the manufacturers recommendations. Commonly this is every 5 years, but this may vary between manufacturers and the appropriate instructions for use must be followed.

The hose replacement period should be a function of the recommended hose life, the complexity of the pendant, the amount of movement and the acuity of the area.

## Graph Showing Improved Pressure Drop



A typical motor lift pendant arm. The hoses are not compliant with BS EN 739 as they are not colour coded. This is typical of many pendant systems manufactured in mainland Europe.

### BeaconMedæS

Part of the Atlas Copco Group  
Telford Crescent, Staveley,  
Derbyshire, S43 3PF, England  
Tel: +44 (0) 1246 474 242  
www.beaconmedaes.com

