

Gas Facilities Management Design Consultancy



Gas Facilities Management (GFM) Design Consultancy

BOC Healthcare has been a leading innovator in the field of medical gases for healthcare settings for over 125 years. As part of the 'end-to-end' service it provides, BOC offers a complete Gas Facilities Management (GFM) design consultancy, applying its expertise to advising hospitals on all gas-related projects.

Whether project managing the entire scheme or providing specialist input on a particular aspect, BOC works closely with clients to guide them through the complexities of medical gas pipeline systems (MGPS), ensuring that each hospital receives the right system for its requirements, delivered by a provider it can trust.

GFM consultancy services

An MGPS may be being installed in a completely new build, expanding as part of hospital growth, or just need to be upgraded.

BOC's GFM consultancy offers expert advice on:

- the design of a new system
- replacement or sense checking of an existing MGPS
- how to extend the MGPS, including supply system sizing (liquid oxygen VIE sizing) and pipe sizing

BOC uses its years of experience to deliver the project. The project will be fully compliant with relevant standards and codes of practice, the completed systems will operate with optimum efficiency to create the safest possible environment for patient care.

As part of its holistic solution, BOC can also advise on and carry out medical gas cylinder store specification, design and installation.



GFM design - before



GFM design - after

GFM medical drawing consultancy and service

Accurate and up-to-date drawings representing medical gas pipeline systems are vital, particularly in the event of an emergency as lives could be put at risk if errors are left undetected.

The GFM medical drawing consultancy service offers a complete range of drawing options, as-fitted, isometric and/or schematic.

As-fitted plan drawings

→ As-fitted plan drawings provide detailed information on the medical gas pipework within a hospital, reflecting the full extent of the MGPS and its capability.

Isometric drawings

→ Upon receipt of a full set of as-fitted plan drawings, BOC can also generate isometric drawings. Isometric drawings are used to gather all relevant and essential information with regard to calculating pipeline pressure drops and diversified flow rates.

Schematic drawings

→ Schematic drawings provide a simple view of the whole MGPS, from source supply equipment to terminal unit. Schematic drawings from BOC ensure the MGPS is easy to interpret and key components are easily identified.

All of the drawings will ensure verified MGPS visibility and allow hospitals to comply with the Pressure Systems Safety Regulations 2000 and HTM 02-01 Part B.

GFM total project management service

Smaller hospitals in particular may benefit from the GFM design consultancy's total project management capability.

From the initial enquiry, through to identifying areas for improvement, designing and installing solutions, managing sub-contractors, and ensuring compliance with all current guidelines, BOC provides smaller hospitals with the expertise needed for its project management requirements, delivered by a provider they can trust.

At BOC we have the solutions

Being able to select from a menu of services means that clients get exactly what they need, all delivered by a trusted supplier to ensure outstanding quality in the complete chain of events for medical gases, from supply plant to safe delivery to the patient.

BOC's GFM design consultancy reduces risk and takes inconvenience away from the client, resulting in streamlined delivery of the final project.

Customer testimonials

"We commissioned BOC Healthcare to carry out a full survey of our MGPS and produce a complete set of drawings. All valves were also to be identified with a unique number and tagged. Locks were fitted where needed and keys tagged and installed in a new key press. This was a major amount of work, carried out by a BOC engineer who required very little assistance from us and conducted his work on the wards with minimal disturbance to their day to day running. At the end of the contract, we had both hard [copy] and electronic drawings showing the full MGPS and a logical key press system that has made identification and isolations for works on the system easy, quicker and safer."

Paul Leedham: Estates Officer, Northern Lincolnshire and Goole NHS Foundation Trust

"Thank you for ensuring smooth transition while installing the new racking in our multiple gases stores on the NDDH site. The detailed plans were provided in good time with quotes, and the installation was planned to ensure as little disturbance to the hospital as possible. The work was completed to a high standard and the refurbishment has ensured the gases are stored appropriately and provide a safe working environment."

Samantha Sherborne: Pharmacy Procurement and Automation Lead, Northern Devon Healthcare NHS Trust



BOC is a Linde company, the Leading Global Gases and Engineering Business with a Mission to Make the World More Productive

We are the UK and Ireland's largest provider of industrial, medical, and special gases as well as related equipment, engineering services, and solutions to support them.

We produce, package, and distribute thousands of different types of gases to our customers every day. Our unrivalled range includes atmospheric gases, high purity gases and mixtures, refrigerants, and chemicals, for applications as diverse as cooling magnets in hospital MRI scanners to fuelling zero emissions vehicles and much more.

BOC offers tailored supply solutions for every size of customer; our cylinder customers enjoy a nationwide delivery and collection network; bulk customers the reassurance of 24/7 delivery; and for our high-demand customers we offer onsite production or dedicated pipeline supply.

And all of this is backed up by industry leading customer service, expert technical support and best-in-class levels of safety and environmental performance – the basis on which we have earned our reputation as a reliable and trusted partner.

BOC Healthcare

Customer Service Centre, Priestley Road, Worsley, Manchester M28 2UT, United Kingdom
Tel 0800 111 333, Fax 0800 111 555, bohealthcare-uk@boc.com, bohealthcare.co.uk

BOC Healthcare is the trading name of BOC Limited registered office, Forge, 43 Church Street West, Woking, Surrey GU21 6HT, England. Company number 337663 – English Register. Authorised and regulated by the Financial Conduct Authority, register number 715528. BOC is a company name used by Linde plc and its affiliates. The BOC logo and the BOC word are trademarks or registered trademarks of Linde plc or its affiliates. Copyright © 2017-2022. BOC Ltd.