

Copper Tube & Valves

Degreased Copper Tubes

Pneumatech MGS supplies BS EN 13348 standard medical grade degreased copper tube and BS EN 1254-1 standard fittings, suitable for the installation of medical gas pipeline systems (MGPS).



Tubes and fittings are offered with the kitemark stamp or engraving (depending on the O.D. size). Tubes and fittings are bagged and capped sealed to ensure no contaminants can enter the product.

Standard pipe sizes (O.D) are:

- 12mm
- 15mm
- 22mm
- 28mm
- 35mm
- 42mm
- 54mm
- 76mm
- 108mm

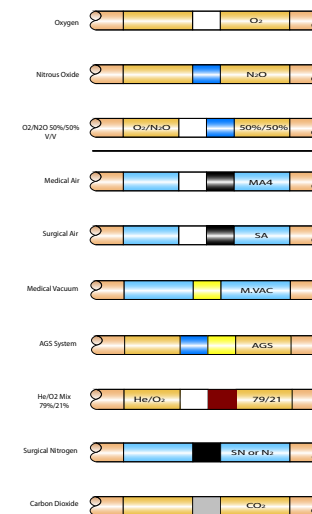
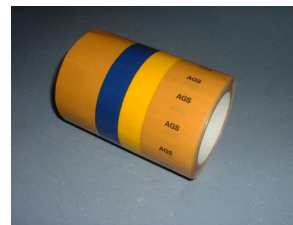


Brackets & Fixings

Pneumatech MGS can also provide our customers with a range of high quality bracketing material suitable for the suspension and support of the medical gas pipeline system. Fittings include brass munsen rings, threaded drop rod, brass fixing back plates, wall and ceiling fixings and supporting brackets.

Others sizes are available upon request.

Colour coded gas identification tape to BS 1710 is also available as well as directional arrow tape so that the medical gas pipeline can be clearly identified for safety purposes.



Line Ball Valve Assemblies for assured service

Pneumatech Medical Gas Solutions (PMGS) is a global leader in manufacturing medical gas production, delivery and control equipment. Our range of piped medical gas equipment provide our customers with the infrastructure required for the delivery and control of medical gas services that is required for medical and surgical applications throughout the facility.

Applications

Degreased copper tubes, fittings and brackets are supplied and installed to provide the connection between source equipment such as manifold control systems, medical vacuum systems, anaesthetic gas scavenge systems and medical and surgical air systems

In line ball valve assemblies are included throughout the pipeline system to enable the closure of departments for maintenance purposes.

Ball Valve Assemblies

1/4 Turn Lockable Valves

Pneumatech MGS 90° in line ball valve assemblies are designed for installation within the medical gas pipeline system. Valve locations are determined by HTM2022, HTM02-01, ISO7396-1 or NFPA99 but are generally positioned wherever a pipeline branch leaves the main pipeline, at riser points, at any entrance or exit from a building. Valves are provided in order to facilitate safe maintenance of the MGPS, as well as emergency shut down of areas in the event of emergency.

We offer two styles of line ball valve assembly, as well as in line non return valves. Line ball valves shall be to either HTM2022 or HTM02-01/ISO7396-1 standards. Both assemblies utilise the same oxygen cleaned high quality 2 piece ball valve, with 90° operation and lockable handle.

The HTM02-01 valve has the additional code features such as drilled fixing nuts and pre installed white through gaskets. The holes provide a visual indication as to whether or not a valve has a white 'through' gasket, or red 'closed' gasket installed.

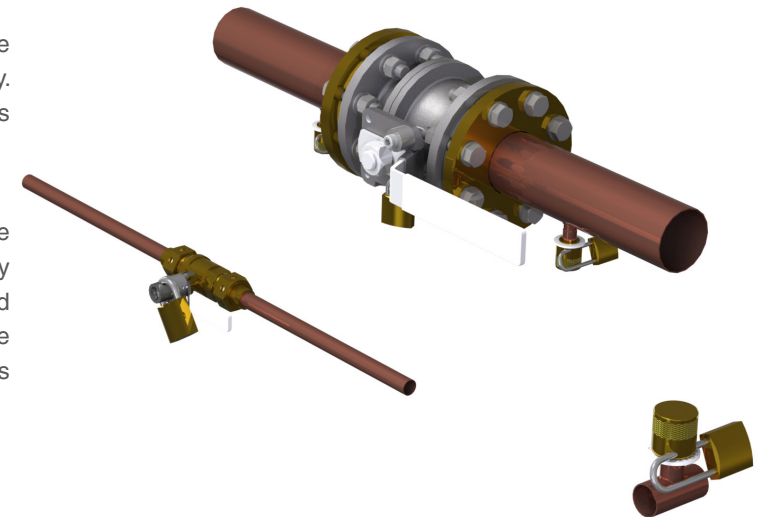


HTM02-01 valves are supplied with the white through gasket installed both upstream and downstream of the valve. The red blank gasket is contained in the kit, and should be installed if the line ball valve assembly is provided in the pipeline system where a future extension is to be installed. This blanking gasket should be placed prior to the valve which prevents the valve body being under pressure in normal operation, preventing the possibility of gas leakage through the valve body or valve stem seal.

In addition, NIST tee connections are required to be installed both up and downstream of any valve assembly for HTM02-01 compliance. NIST connections provide the means to feed medical gas into the pipeline in the event the main supply fails or becomes contaminated. NIST assemblies are gas specific and comply to BS EN ISO 15908 and are provided with an integral non return valve to prevent high pressure gas leakage when the NIST cap is removed. Tees are available for all gas services from 15mm to 54mm.

For 76mm line ball valve assemblies and above we provide our flanged assembly for maximum security. These valves are supplied with the NIST connections pre installed on the HTM02-01 version.

To prevent unauthorised access line ball valve assemblies and NIST tee connections have the facility to lock by means of a padlock which can be supplied optionally. For compliance to HTM20-01 long shackle padlocks are provided numbered for each specific gas to enable easy on site key management.



Compliance

The line ball valve assembly is manufactured according to a quality management system compliant to ISO13485. Moreover, the unit is designed following international regulations, including Medical Device Directive MDD 93/42/EEC. The valve assembly exceeds requirements of demanding standards, such as:

- HTM 02-01
- HTM 2022
- C11

| Key Points |
|--------------------------------------------------------------|
| Factory tested and certified. |
| HTM2022 or HTM02-01 style valve assemblies. |
| High quality components. |
| User friendly NIST tee for on site placement. |
| Degreased oxygen copper pipes. |
| Range of pipe and valve sizes. |
| Optional locking devices for restricting access. |
| High quality fixings and brackets. |
| Accessories such as ID tape and fluxless silver solder rods. |
| High quality fixings and brackets. |

| Compliance |
|-------------------------------------------------------------|
| HTM02-01, HTM2022, C11 and all related BS EN ISO standards. |

| Easy installation |
|----------------------------------------------------|
| Configuration and set up can be performed on site. |

| Spare parts |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Medical Gas Spares Department plays an important role in after-sales support for our customers, delivering all requirements for medical gas systems replacement parts and service components. |

| Service and maintenance |
|--------------------------------------------------------------------------------------------------------------------------|
| Throughout the UK our network of service engineers provides full Service and Maintenance support of the highest quality. |
| Outside the UK our fully trained distributors provide a similar local service. |
| Comprehensive one year warranty and technical support. |

Formerly known as Penlon Medical Gas Solutions



www.p-mgs.com

The colour of the actual products may vary from the colour shown in this brochure. Slight differences in detail might appear.