

# CPX

## Medical Gas Pipeline Equipment



**CPX™ PRECISION UK Ltd** 

V2.0



# From Plant Room to Patient



# Introduction

Precision UK Ltd is a British Manufacturer and World Leader in supplying Medical Gas Pipeline Equipment compliant with HTM 02-01, C11 and BS EN 7396.

With over 40 years combined experience of company staff within the medical gas pipeline industry, Precision UK Ltd and its products recognise and embrace the specialist requirements of this industry to include all aspects of customer service, product design, cleanliness, packaging and usability required to become a successful partner for installations of pipeline equipment.



CPX® is a registered trademark of Precision UK Ltd; all products manufactured are marked with this brand name as a sign of dedication to design and quality.

All products certified as medical devices carry the CE 0086 mark and are registered with the British Standards Institute. Core products include Degreased Copper Tube and Fittings, Lockable Line Valves, Nist Pieces, Silver Solder, Pipeline Identification Tape, Munsen Ring Brackets, Area Valve Service Units (AVSU) Single and Modular, Area and Plant Alarms, Pressure Switch Assemblies and Rigid/Retractable Pendants. Our extending product range include Medical Air Plant, Medical Vacuum Plant, AGSS Plant, Gas Manifolds and Medical Gas Outlets, all compliant to British and European Directives.

We truly are the only British Company accredited to BSI ISO 9001, ISO 13485 and 93/42/EEC The Medical Device Directive, that offers the complete range of medical gas pipeline equipment from its own manufactured stock.

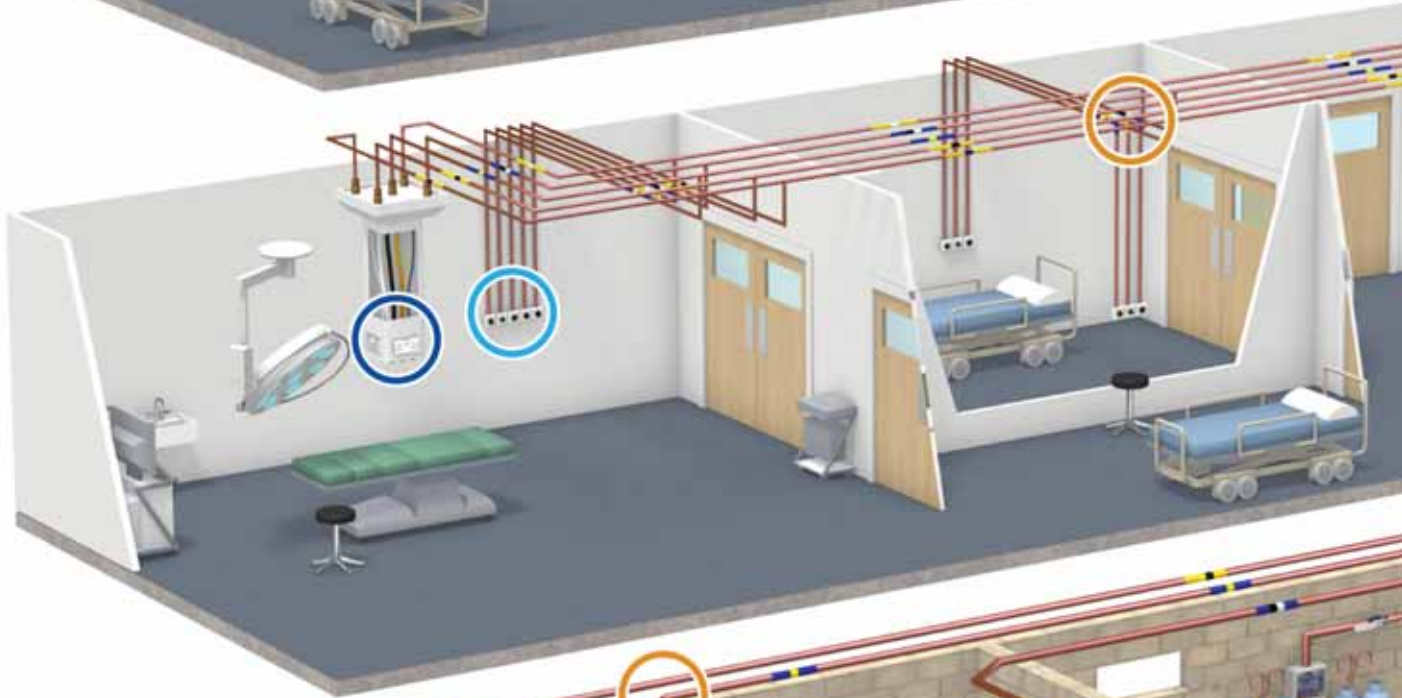
Stock holding is structured to meet increasing demand. We have over 750,000 products in stock from Degreased Copper Tube and Fittings to Medical Gas Outlets, Manifolds and Plants. We understand our customers' deadline and wholly commit to stock to enable a next day service for the majority of pipeline materials.

We provide a comprehensive design and field survey both in the UK and Export markets, supplying 90% of the UK market and exporting to over 60 countries worldwide. Our extensive network of local partners and distributors enables us to offer an on-site service in all countries, from an advisory role, verification to test and commissioning.

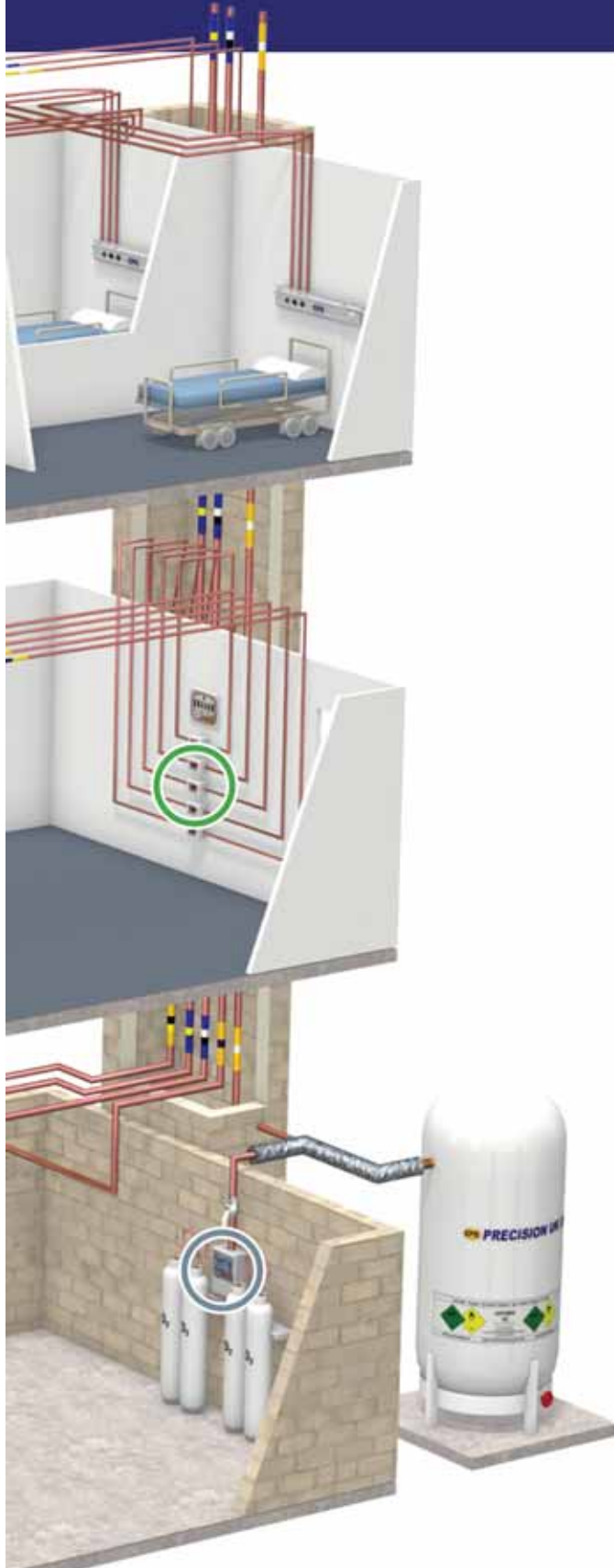




# Specialists in the complete range of HTM02-01,



# C11 & BS EN 7396 Medical Gas Pipeline Systems



## Contents



Pipeline  
p05-08



Gas Outlets  
p09



AVSU's & Modules  
p10



Medical Gas Alarm  
p11



Plant & Manifolds  
p12-15



Pendants, Flowmeters  
& Bed Heads p16-19



**PRECISION UK Ltd** 

Specialists in HTM02-01 Medical Gas Pipeline Equipment



# Degreased medical gas copper fittings



CPX end feed copper fittings are manufactured in the UK under BS EN 13485 Medical Devices: Quality Management Systems. They are suitable for jointing degreased medical gas copper tube pipelines compliant to BS EN 13348, BS EN 1057 and BS 2871 Part 1 Table X as quoted in HTM 02-01 and C11.

Exclusively designed for Medical Gas Pipeline Systems (MGPS), CPX copper fittings recognise and embrace the specialist requirements of the medical gas pipeline industry to include all aspects of design, cleanliness, packaging and usability required to become a successful partner for installations of pipelines compliant with HTM 02-01, C11 and BS EN 7396.

## Specific Benefits Include:

- All CPX degreased copper fittings are engraved with the following information: EN 1254, size, manufacturer details.
- Each fitting is individually bagged in a clear protective polythene bag and sealed to maintain cleanliness.
- Each bag is labelled with the degreased specification, product code and production batch number.
- Cleanliness is guaranteed below 0.01 mg/cm<sup>2</sup> of hydrocarbons on the degreased surface of the fitting.
- All boxes include logical and concise labelling identification.
- 25 Year guarantee.

## Standards:

Designed to meet the requirements of (but not exclusive to):

- EN 1254: Specification for Capillary Copper Fittings
- BS 684: Specification for Copper Fittings used with Copper Tubes
- ASTM B280: Cleanliness Testing
- HTM 02-01: NHS Health Technical Memorandum
- C11: NHS Model Engineering Specification-Medical Gases
- BS EN 7396: Medical Gas Pipelines for Compressed Medical Gases and Vacuum
- BS EN 740: Active Anaesthetic Gas Scavenging Pipeline System
- CE marked as a Class IIa Medical Device 93/42/EEC with notified body British Standard Institute CE0086


# Degreased Medical Copper Tube



Precision UK's CPX degreased copper tube is manufactured in the UK under BS EN 13485 Medical Devices: Quality Management Systems. All tube is manufactured under strict quality control procedures to ISO 9001:2008. CPX tube is the only British manufactured tube that is CE marked as a class IIa Medical Device 93/42/EEC with notified body British Standards Institute under CE0086.

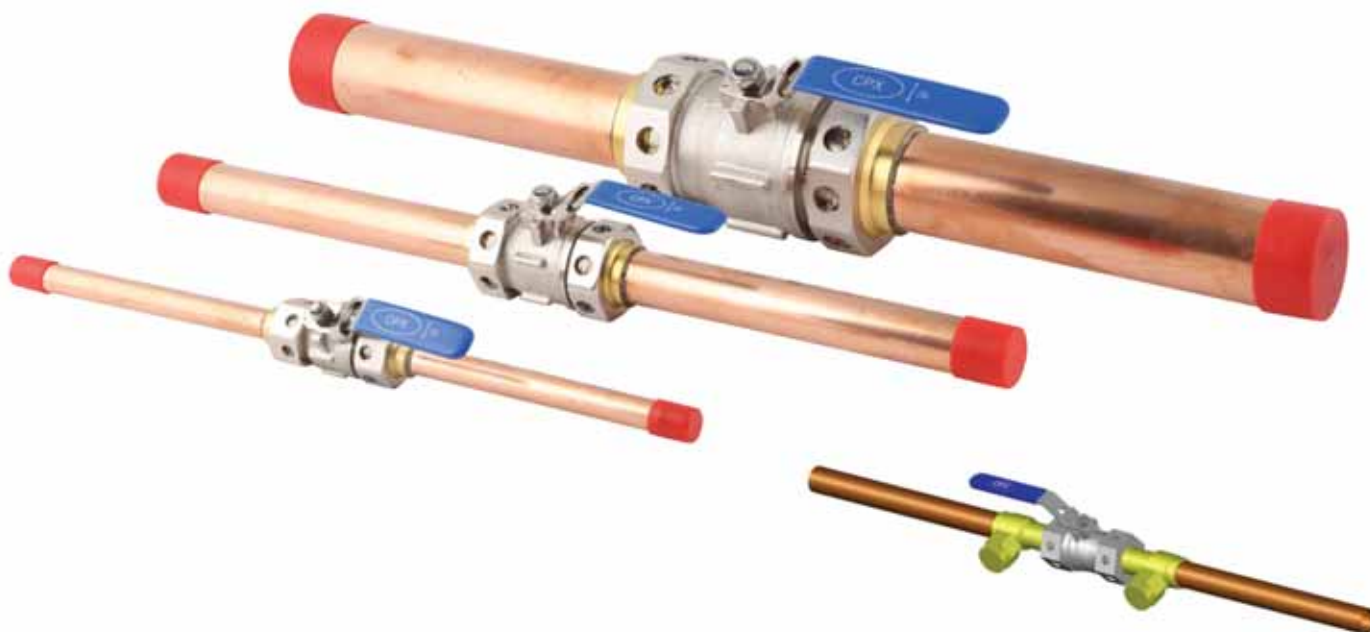
It is suitable for jointing degreased medical gas copper fittings and other medical gas equipment compliant to BS EN 13348, BS EN 1057, BS 2871 Part 1 Table X, EN 7396 and HTM 02-01. CPX copper tube is designed for use in Medical Gas Pipeline System (MGPS) installations and incorporates the specialist requirement of the MGPS industry to include cleanliness, packaging and usability required to attain the levels of quality as stated particularly in HTM 02-01.

## Specific Benefits Include:

- Each pipe is cleaned to have a maximum carbon level 0.20mg/dm<sup>2</sup>.
- Each pipe is individually end capped and bundled in sealed polythene bags to maintain cleanliness.
- Chemical composition CU.DHP to ISO 1190-1/CW024A to EN1412.
- All copper tube is manufactured under strict quality control procedures to ISO 9001: 2008 and CE marked under the Medical Device Directive 93/42/EEC (CE0086).
- BSI Kitemarked
- Batch numbering for traceability is included on all pipework.
- All copper tube from sizes 12mm through to 108mm are engraved/permanently ink marked with the following information: EN 13348, nominal dimensions, manufacturer details, part no., CE Mark, , Medical Device Directive to 93/42/EEC, time and date of production.
- 25 year guarantee.



# Medical Lockable Line Valve & NIST Tee Assembly



NIST Lockable Line Valve

The CPX lockable line valve is manufactured in the UK under BS EN 13485 Medical Devices: Quality Management Systems and CE marked with notified body British Standards Institute under the Medical Device Directive 93/42/EEC (CE0086). They are designed to have a tight shut off and blow out proof stem for protection against pressure surges.

They comprise of a 2-piece full bore male threaded nickel plated brass ball valve c/w chrome plated brass ball, blow-out proof stem, stem O-ring, Teflon® ball seals and flat face copper stub pipe assemblies. The copper stub pipe assemblies are manufactured from medical gas copper tube compliant to BS EN 13348 and are factory soldered to brass flat face seal housings chemically cleaned and degreased.

The copper pipe stubs are of sufficient length to enable brazing directly to the MPGS utilising flux less brazing to WKO (82) 1. Flat face housing incorporate Nitrile® or Viton® O-ring seals ensuring 100% gas tight connections.

The chrome plated valve handle is lockable in the open or closed position by way of a sliding device and a brass padlock is provided to prevent unauthorised or inadvertent operation of the valve. For ease of installation all brass padlocks are the same size for the full range of ball valves from 15mm to 108mm.

All line valves are fully pressure tested for valve tightness and leakage and batch numbered for traceability prior to packing and delivery. They are individually end capped and sealed in a clear polythene bag to maintain cleanliness.

## Designed to meet the requirements of

- HTM 02-01: Health Technical Memorandum Medical Gas Pipeline Systems.
- C11 NHS: Model Engineering Specification – Medical Gases.
- BS EN 7396: Pipelines for Compressed Medical Gases and Vacuum.
- BS EN 15908 Non-interchangeable Screw Threaded (NIST) Low Pressure Connectors for Medical Gases.
- Medical Device Directive 93/42/EEC (CE0086).

## Suitable for use with the following medical laboratory gases

- O<sub>2</sub>
- N<sub>2</sub>O (Nitrogen)
- O<sub>2</sub>/N<sub>2</sub>O
- Medical Air
- Vacuum
- CO<sub>2</sub>
- Helium
- Hydrogen
- Argon
- Mixtures of the above



# Pipeline Accessories

We offer the following pipeline installation accessories from our stock to complete the installation to HTM standards:

## Brass Munsen Rings



Munsen Rings manufactured from brass with a single M10 tapping complete with brass screws. M10 to M6 reducing bush available on request.

Suitable for suspending copper tube complying to BS EN 13348 & BS EN 1057 (formerly BS 2871) with metric threaded studding or screws.

## Other bracketry products we stock include:

### Hospital Bracket



### Male Backplate



### Double Munsen Ring



### Female Backplate



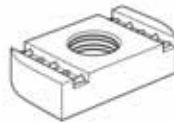
## Pipe Bender



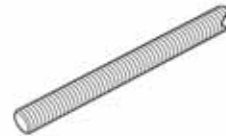
## Pipe Cutter



## BZP Channel Nut



## BZP All Threaded Rod



## BZP Drop in Anchor M10



## Silver Solder Brazing Alloy, 5%, 10% or 40%

Conforms to EN 10444:CP 104

For flux free brazing of copper or high copper content alloys

Available in kg or sticks

## Medical Gas Pipeline Identification Tape



CPX Pipeline ID tape is suitable for identifying medical gas pipelines compliant to BS EN 7396, HTM 02-01 NHS Health Technical Memorandum, C11 and BS 1710:1984.

Colour banding should be applied near to valves, junctions, walls etc. A label every 3m should identify each gas and arrow tape showing the flow direction of gas.

For more information visit: [www.precisionuk.co.uk](http://www.precisionuk.co.uk)

# Medical Gas Outlet-British Standard



The CPX Terminal Units are designed and manufactured in the UK under BS EN 13485 Medical Devices: Quality Management Systems. The units comprise of a first fix, second fix and a second fix valve assembly and connect medical appliances to the gas supply system.

The first fix comprises of a brass pipeline termination cylinder with a 12mm BS EN 13348 copper pipe for brazing to the fixed pipeline system, or with a NIST BS EN 15908 (non-interchangeable screw thread) connector for connection to a hose assembly. A mounting box suitable for both surface and flush installations is also provided.

The CPX Terminal Unit is designed to enable gas probes to be connected and disconnected easily and with minimal effort and the same time as giving a strong, reliable and secure connection. They are available for oxygen, nitrous oxide, 50% oxygen/50% nitrous oxide mixture, medical air, surgical air, medical vacuum, carbon dioxide, nitrogen and AGSS.



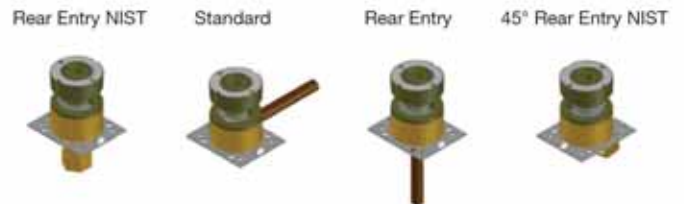
All Metal Gas Outlet

The terminal units can be flexibly integrated into any type of installation including surface, flush, bedhead and pendant and are supplied with a 3 year warranty. Test plugs are included with flush, surface, and bedhead types for first fix pressure testing on site.

## Standards

Designed to meet the requirements of (but not exclusive to):

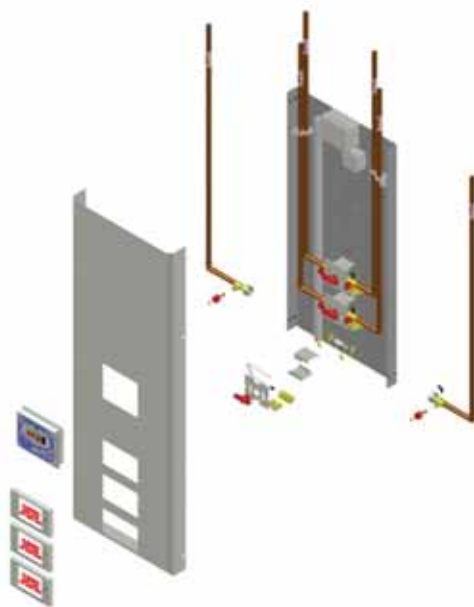
- HTM 02-01 Medical gas Pipeline Systems
- BS EN 7396-1 Pipelines for Compressed medical Gases and Vacuum
- BS EN 7396-2 Anaesthetic Gas Scavenging Disposal Systems
- BS EN 9170-1 Terminal Units for use with Compressed Medical Gases and Vacuum
- BS EN 9170-2 Terminal Units for Anaesthetic Gas Scavenging Systems
- C11 NHS Model Engineering Specification – Medical Gases
- BS EN 15908 Non-interchangeable Screw Threaded (NIST) Low-pressure Connectors for Medical Gases
- BS 5682 Specification for Probes Specification for Probes (quick connectors) for Medical Gases.
- Medical Device Directive 93/42/EEC (CE0086).



# AVSU - Area Valve Service Unit



The Area Valve Service Units (AVSU's) are manufactured under BS EN 13485 Medical Devices: Quality Management Systems and Medical Device Directive 93/42/EEC (CE0086) Class IIb. They provide a local gas isolation facility for use during normal installation and maintenance or in the event of an emergency. They are built in accordance with the HTM02-01, C11 and BS EN 15908 standards and are suitable for Oxygen, Nitrous Oxide, Oxy-Nitrous Oxide, MA4, MA7 and Vacuum.



Modular AVSU - Surface or Flush Mounting

## Features:

The AVSU can be installed as a flush or surface mounted.

- Housed in a steel white epoxy coated box and a key operated 90° lock for security.
- A breakable glass front to the door gives an immediate indication as to the gas type, the valve position and the gas flow. In an emergency the glass front can be broken thus allowing access to the valve.
- The valve type is a 90° shut off ball valve, which is operated via a handle, and each unit comes complete with a blanking plate, which can be fitted, to either side of the valve.
- Each NIST include non-return valves with 100% sealing.
- Non-interchangeable NIST connectors are fitted upstream and downstream of the valve. The NIST connectors provide the facility to purge a system before the working gas is introduced and also following any downstream interruption of the supply. The NIST connectors also allow for the pipeline pressure to be tested and provide an easily accessible point for gas sampling.
- Side entry sizes available 22mm, 28mm and 42mm (other entry versions available).
- Pressure switches if required can be fitted inside the box to enable local monitoring.



# Area Alarm Unit



The CPX-A area alarm is used to monitor pipeline pressure within a ward, theatre etc. The pressure is monitored by pressure switches in the pipeline downstream from the last AVSU. Pressure is monitored for both high and low pressure (low only for vacuum). The integrity of the cabling between the pressure switches and the alarm panel is monitored, and a fault on this cable will result in a system fault alarm, with all affected alarm conditions going into alarm condition.

**Simple connection:** Just 3 cores connect the alarm to the end of line components, regardless of the number of gases.

**Simple maintenance:** All connections (including mains) are plug & socket. The alarm components can be changed in about 1.5 minutes.

**Versatile:** Several CPX-A alarms can be connected to the same end of line components using just 3 cores. The CPX-A can transmit either a common alarm or all alarm conditions, using the MEDCON data protocol, for display on the CPX-P plant alarm system, and can also receive data from the CPX-P system.

**2 year warranty:** No parts or labour charges for repairs to alarms which fail due to faulty parts or manufacture.

**10 year compatibility warranty:** Install the CPX-A with the confidence that equipment will be available to modify or extend the system for at least 10 years.

All alarms are manufactured under BS EN 13485 Medical Devices: Quality Management Systems and comply to HTM02-01, BS EN 7396 and BS EN 4754.

The monitoring of the cable requires a termination box to be mounted as close as practical to the pressure switches. As an optional extra, these termination boxes can be supplied with the cables for connection to the pressure switches already fitted, allowing significant savings in on-site work.

To use more than one CPX-A alarm panel with one set of pressure switches, simply connect all CPX-A alarm panels to the 3 core screened cable (minimum 0.5mm) from the termination box (either at the termination box itself, or at another CPX-A).

# Medical Vacuum Plant - British Standard



Precision UK's CPX Vacuum Plant is manufactured under BS EN 13485 Medical Devices: Quality Management Systems. It provides a centralised source of vacuum, available in simplex to multi-pump configurations dependant on individual requirement, to include complete package plant or modular format.

## Specific Benefits Include

- Fully complies to HTM 02-01, HTM 2022, C11, BS EN 7396, CE0086 Class IIb
- CPX® branded solid British design
- Control and highly visible indication panel
- All interconnecting pipework is included
- Outlet pipework for connecting to the pipeline
- Anti-vibration mounts on all pumps
- Isolator to each pump unit as standard
- Alarm and BMS outputs for remote status indication
- Digital display available on request
- All settings are factory set and verified with certificates of inspection
- Each plant has a full warranty of 12 months from its commission date

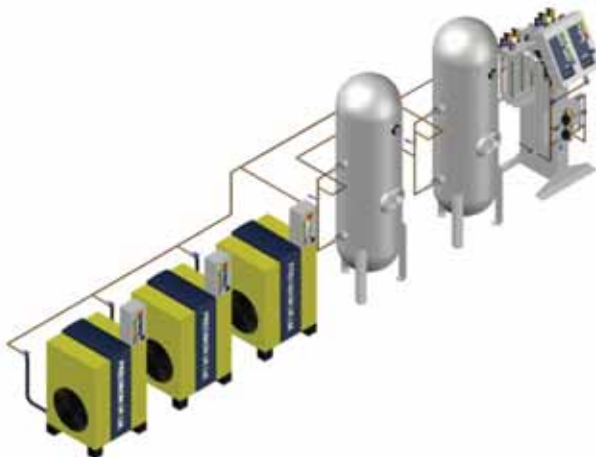


Packaged Plant

# Medical Air Plant - British Standard



Precision UK's CPX Medical Air Plant is manufactured under BS EN 13485 Medical Devices: Quality Management Systems. It provides a centralised source of medical air, available in simplex to multi-pump configurations dependant on individual requirement.



Triplex Air Plant - HTM 02-01

## Specific Benefits Include

- Fully complies to HTM 02-01, HTM 2022, C11, BS EN 7396, CE0086 Class IIb
- CPX® branded solid British design
- Control and highly visible indication panel
- All interconnecting pipework is included
- Outlet pipework for connecting to the pipeline
- Anti-vibration mounts on all pumps
- Isolator to each pump unit as standard
- Alarm and BMS outputs for remote status indication
- Digital display available on request
- 400Kpa, 700Kpa and 1000Kpa output versions available
- All settings are factory set and verified with certificates of inspection
- Each plant has a full warranty of 12 months from its commission date



# AGSS Plant - British Standard



Precision UK's CPX AGSS Plant is manufactured under BS EN 13485 Medical Devices: Quality Management Systems. It provides a centralised or dedicated source for the safe removal of exhaled anaesthetic gases from within the theatre, available in simplex and duplex pump configurations dependant on individual requirement.

## Service and Maintenance

Throughout the UK and worldwide our approved team of service and maintenance engineers provide immediate technical support.

## Specific Benefits Include

- CPX® branded solid British design
- Control and highly visible indication panel
- CE marked under Medical Device Directive 93/42/EEC with approval from British Standards Institute CE0086 classified as Class IIa Medical Device
- All interconnecting pipework is included
- Copper stubbed outlet and inlet pipework for ease of connecting to MGPS
- Anti-vibration mounts on all pumps
- Isolator to each pump unit as standard
- Alarm and BMS outputs for remote status indication
- Pre-set vacuum relief valve and low pressure sensors
- Low voltage (24V) remote switches
- Visible condensate drain flask fitted to exhaust
- Easy to install 4 wire + earth remote switch wiring
- All settings are factory set and verified with certificates of inspection
- Each plant has a full warranty of 12 months from its commission date

## Designed to meet the requirements of

- HTM 02-01: Medical Gas Pipeline Systems
- C11 NHS: Model Engineering Specification – Medical Gases
- BS EN 6834: Specification for Active Anaesthetic Gas Scavenging Systems
- ISO 7396-2: Anaesthetic Gas Scavenging Disposal Systems

# Medical Gas Manifolds - British Standard



Precision UK's CPX Automatic Manifold Plant is manufactured under BS EN 13485 Medical Devices; Quality Management Systems.

It provides a centralised source of bottled gas. The unit is designed to provide a duty and standby gas supply at a constant pressure via two banks of bottled gas cylinders with status monitoring.

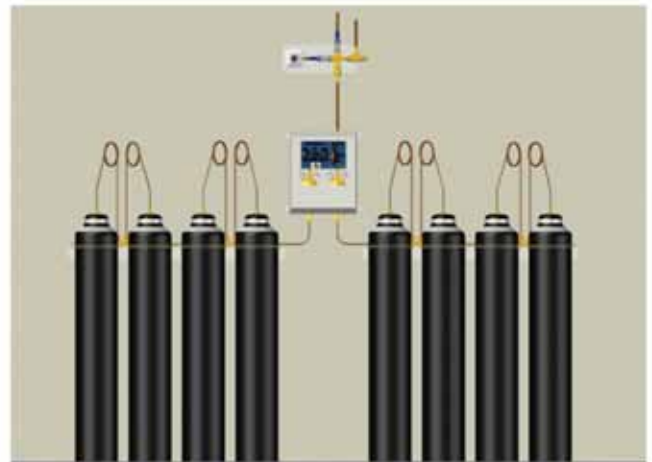
- A standard system would feature a central control panel with a header assembly.
- Digital display of bottle pressure for duty and standby banks.
- Electronic control with alarm and BMS outputs for remote status indication.
- The unit is designed for wall mounting as standard, however, options available include floor mounted assemblies and formats to suit customer requirements.
- Also available is a high flow capable of providing a distribution flow rate in excess of 2000 L/m.

## Designed to meet the requirements of:

- HTM 02-01: Medical Gas Pipeline Systems
- BS EN 7396: Pipeline Systems for Compressed Medical Gases and Vacuum
- C11 NHS: Model Engineering Specification – Medical Gases
- BS EN 2503: Pressure Regulators
- CE marked under Medical Device Directive 93/42/EEC with approval from British Standards Institute CE0086 classified as Class IIb Medical Device

## Service and Maintenance

Throughout the UK and worldwide our approved team of service and maintenance engineers provide immediate technical support.



# Medical Pendants - Fixed



Rigid and Retractable Pendants are manufactured under BS EN 13485 Medical Devices: Quality Management Systems. They are intended to distribute medical gases, AGSS and electrical services to the operating table/anaesthetic machine, whilst leaving the surrounding area free from trailing hoses and cables.

Rigid Pendants are ceiling mounted fixed columns complete with first fix plate and ceiling shroud, with an epoxy powder coated finish.

Retractable Pendants are ceiling mounted, height adjustable columns complete with first fix plate and ceiling shroud, with an epoxy powder coated finish. The height to the underside of the pendant can be adjusted throughout a 300mm pre-determined range.

A maximum of 9 medical gas and AGSS terminal units, complete with hose assemblies, can be accommodated within each pendant.

Each pendant can accommodate a maximum of 8 electrical sockets. Other specialist outlets such as data sockets, equipotential sockets, etc. can be incorporated into the pendant as required.

## Designed to meet the requirements of

- HTM 02-01: Health Technical Memorandum Medical Gas Pipeline Systems
- BS EN 7396: Medical Gas Pipelines for Compressed Medical Gases and Vacuum
- BS EN ISO 11197: Medical Supply Units
- BS EN 15908: Non-interchangeable Screw Threaded (NIST) Low-pressure Connectors for Medical Gases
- BS EN 9170: Terminal Units for use with Compressed Medical Gases and Vacuum
- Medical Device Directive 93/42/EEC (CE0086).



# Suction Flow Meter



CPX suction regulator provides reliable, safe suction in continuous flow suction procedures. It is used to remove substances from the patient's body during surgical procedures, the vacuum regulator should be connected to a wall source of vacuum using a direct probe or through a rail system.

The unit is specifically designed to provide high flow rates with minimal restriction in the ward and operating room which require high level suction use for patients. The standard inlet connection is compatible with the CPX BS Gas outlet, however other inlet connections are available dependant on the hospital requirement.

#### Material specification:

- Jar -Plastic ABS
- Internal metal (wet) parts- Brass
- Regulator Body – Aluminum
- Diaphragm- Viton Rubber

#### Specific Benefits Include:

- Manufactured in the UK of durable break resistant, fire retardant polymer.
- The compact design incorporates a clear 63mm Ø integral vacuum gauge is built inside the regulator body.
- Analog Display:  $\pm 5\%$  of Full Scale deflection.
- Metal back plate making the unit strong and reliable reducing repair costs.
- Accurate suction control within ranges 0-300mmbar (LoSuck) and 0-760mmbar (HighSuck)
- Quick mode selector toggle switch for REG/OFF/FULL vacuum.
- The large control knob comes with three (3) easy-to-read settings making vacuum adjustments simple, even in emergency situations.
- Infection control easy to clean and wipe down
- Variety of inlet connections available BS, AFNOR, DIN and DISS
- Outlet connection 1/8" female NPT
- Safety trap recommended for use for protecting regulators and preventing accidental overflow, these connect directly to the unit 1/8" male NPT.
- Suction jar available – 1200ml and 3000ml both come with wall brackets

# Oxygen Flow Meter



The Precision CPX Bubble flow meter shall be supplied with connection probes to BS 5682, other country standards available e.g. DIN, NFPA, AFNOR, JIS, SS, ISO European

## Gas Specificity

Flow meter's shall be supplied with gas specific probes and only attach to the corresponding medical gas terminal unit, it accurately measures flow at 0-15Lpm even at variant inlet pressures. Accuracy is fulfilled within 10% to attain maximum efficiency for patient and environment.

Each flow meter is calibrated at 50 psi inlet pressure

## Materials

Flow meter shall be manufactured to EN 13220:1999 and ISO 15002:2008 and constructed from chromium-plated brass body, inner and external tube in crack resistant polycarbonate and stainless steel ball. Other pieces shall be in brass.

## Humidifier:

Constructed from polycarbonate, Sterilisation should be conducted in an autoclave on a 25 min cycle at 121 °C, 1.3 kPa (max. 40 times). Before sterilisation remove the tube and diffuser and consequently disposed.

## Service and Maintenance

Throughout the UK and worldwide our approved team of service and maintenance engineers provide immediate technical support.

## Warranty

The flow meter shall have a two-year warranty, subject to the recommended minimum routine maintenance operations being carried out by correctly competent persons.

# BHU Bed Head Unit



All Precision UK's CPX Bed Head Units are manufactured under BS EN 13485 Medical Devices: Quality Management Systems. They are designed and built with a view to provide smooth lines, a stylish finish and pleasing aesthetics in order to blend into the room décor. The unit is in accordance with the British Department of Health Memorandum No 2015 (HTM 2015).

Built from individually heat treated extruded aluminium sections, the unit provides separate compartments for medical gases and electrical services. Furthermore, the gas compartment is ventilated to prevent a buildup of gas inside the unit.

There are separate panels for low voltage (LV) and protective extra-low voltage (PELV) services. This allows access to the PELV section for servicing without having to isolate the LV circuits.

Medical gas outlets are located in an individual compartment which both this and the cover are completely insulated from electrical elements. Any number of medical gas outlets can be accommodated depending on the length of the unit.

A provision for nurse call can be included, reading and room lights are also available to be pre-installed in the unit. Any number of electrical sockets can be accommodated depending upon the length of the unit. A complete choice of British/American/Euro US/German Schuko sockets are available.

## Specific Benefits Include:

- Colour coded to customer requirements
- Extruded aluminium sections
- Separation of services as per BS EN 11197
- Integral up lighting and medical rails
- The main unit is normally supplied in white colour (RAL 9010).
- BS EN 9170 CPX Precision medical gas outlets as standard others available at request.
- Supplied pre-piped, pre-wired, fully tested and certified
- Medical Device Directive 93/42/EEC (CE0086).



# Quality and Design Services

Precision UK Ltd is the only truly British Company accredited to ISO 9001, ISO 13485 and 93/42/EEC Medical Device Directive for the complete Medical Gas Pipeline System.

We operate a Quality Management System which complies with the requirements of ISO 9001:2008 and ISO 13485:2003 for the design, assembly, testing and supply of Medical Gas Pipeline equipment. These standards have enabled us as a company to develop and maintain best practice and take a leading role in shaping the Medical Gas Pipeline Systems Industry.

The certifications we have earned prove that our products and practices consistently stand up to rigorous examination in terms of quality, safety and performance and are compliant with widely recognised and respected standards.

We are committed to high standards and continual improvement, raising our performance above and beyond our competitors.

All our products are manufactured in the UK and supplied complete with certificates of origin attested by the chamber of commerce if required.



Precision UK are specialists in Medical Gas Pipeline Systems compliant to HTM 2022, HTM 02-01 and EN 7396 standards. We offer the complete design service of initial concept to delivery, from ward upgrades to complete design and build projects worldwide.

Our experienced management team and highly trained workforce ensure complete compliance to the latest health & safety and quality standards, MGPS are an integral part of all hospitals and our dedicated approach to achieving the highest quality product at the most economical value is in the forefront of our approach. Commissioning of each installation and offering on going advice of the project is also available from our team.

# Where to Find Us



We participate in major exhibitions worldwide:

- Medica, Dusseldorf, Germany
- Arab Health, Dubai, UAE
- Saudi Health, Riyadh, KSA
- Africa Health, Johannesburg, South Africa

## Contact Details:

Precision UK Ltd  
CPX Technology Building,  
Pepper Road, Hazel Grove,  
Stockport, SK7 5BW,  
United Kingdom

**Tel:** +44 (0)161 487 2822

**Fax:** +44 (0)161 487 2816

**Email:** [info@precisionuk.co.uk](mailto:info@precisionuk.co.uk)

## Company Details:

**VAT No:** 850 070067

**IBAN:** GB55 BARC 2082 1410 1131 66

## Exclusive Distributor for Malaysian Market:

Jana Tanmia Resources Sdn Bhd  
No 11, Jalan Kota Raja H27/H,  
HICOM Town Centre, Seksyen 27,  
40400 Shah Alam,  
Selangor Darul Ehsan

**Tel:** +603 5191 4505

**Fax:** +603 5191 4508

**Email:** [enquiry@jtr.com.my](mailto:enquiry@jtr.com.my)

**Website:** [www.jtr.my](http://www.jtr.my)





# Certificate of Registration

**QUALITY MANAGEMENT SYSTEM - ISO 13485: 2003**

*This is to certify that:*

## **Precision Parts UK Limited**

**Unit 8B  
Newby Road Industrial Estate  
Hazel Grove  
Stockport  
SK7 5DA  
United Kingdom**

*Holds Certificate No:* **MD 568562**

*and operates a Quality Management System which complies with the requirements of ISO 13485: 2003 for the following scope:*

The design, assembly, testing and supply of medical gas pipeline equipment

*For and on behalf of BSI:*

*Gary Fenton, Global Assurance Director*

First Issued: **13/05/2011**

Latest Issue: **02/07/2012**

Expiry Date: **03/07/2015**



Page: 1 of 1

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated [online](#). Printed copies can be validated at [www.bsigroup.com/ClientDirectory](http://www.bsigroup.com/ClientDirectory)

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 845 080 9000  
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A Member of the BSI Group of Companies.







# Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2008

This is to certify that:

Precision Parts UK Limited  
CPX Technology Building  
Pepper Road  
Hazel Grove  
Stockport  
SK7 5BW  
United Kingdom

Holds Certificate Number:

FS 548891

and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:

**The design, assembly, testing & supply of medical gas pipeline equipment .**

For and on behalf of BSI:

Gary Fenton, Global Assurance Director

Originally registered: 03/07/2009

Latest Issue: 03/05/2013

Expiry Date: 10/07/2015



003

Page: 1 of 1

...making excellence a habit.™



# Certificate of Unit Achievement

is awarded to

**MOHD ZAIDI ILAMDIN**

who studied the following modules at

**EASTWOOD PARK LIMITED**

**MODULE**

**VALUE LEVEL GRADE**

**PIPED MEDICAL GAS SYSTEMS (AP)**

**0.5 PDC PASS**

**DATE OF AWARD AUGUST 2006**

**57925 : : X900633 : 000501863 : 25:11:69**

**Jerry Jarvis**  
Managing Director  
edexcel





# Certificate of Unit Achievement

is awarded to

**MOHD ZAIDI ILAMDIN**

who studied the following modules at

**EASTWOOD PARK LIMITED**

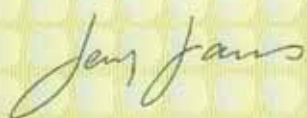
**MODULE**

**VALUE LEVEL GRADE**

**MEDICAL GAS PIPELINE SYSTEMS FOR COMPETENT PERSONS 3.0 3 PASS**

**DATE OF AWARD JANUARY 2007**

**57925 ; : Y718246 ; 000503713 ; 25:11:69**



**Jerry Jarvis**  
Managing Director  
edexcel





**Jana Tanmia Resources Sdn Bhd,  
No. 11, Jalan Kota Raja H27/H,  
Hicom Town Centre, Seksyen 27,  
40400, Shah Alam,  
Selangor, Malaysia**

Tuesday, 06 January 2015

**Ref: Malaysian Distribution**

Dear Mr. Zaidi,

We are pleased to inform on our appointment of Jana Tanmia Resources Sdn Bhd as our Exclusive Distributor for overall Malaysian market.

We also agree for Jana Tanmia Resources Sdn Bhd to undertake as local manufacturer of our product in Malaysia and proceed with Malaysia brand application with Malaysian local authorities.

Please do not hesitate to contact me if you require any further information.

Thank you and Kind Regards

  
Robert Parry  
Precision UK Ltd  
Managing Director

**PRECISION UK Ltd**   
Specialists in HTM02-01  
Medical Gas Pipeline Equipment  
CPX Technology Building,  
Pepper Road, Hazel Grove,  
Stockport, UK, SK7 5BW  
Tel: +44 (0) 161 487 2822  
Fax: +44 (0) 161 487 2816  
Info@precisionuk.co.uk

[www.precisionuk.co.uk](http://www.precisionuk.co.uk)



Company Registered Office: Crown House, Stockport, Cheshire, SK1 3RB  
Registered in England and Wales No. 05058855  
VAT No. 850 0700 67

CPX Technology Building, Pepper Road  
Hazel Grove, Stockport, UK, SK7 5BW  
Tel: +44 (0) 161 487 2822  
Fax: +44 (0) 161 487 2816  
Email: [info@precisionuk.co.uk](mailto:info@precisionuk.co.uk)

Contact us for details of our world-wide distribution network



**Exclusive Distributor :**



382767-D

**Head Office**

No 11, Jalan Kota Raja H27/H, Section 27, Hicom Town Centre,  
Selangor Darul Ehsan, Malaysia.

**Tel :** +603 - 51914505 | **Fax :** +603 - 51914508

**www.jtr.my | enquiry@jtr.my**

**CPX™ PRECISION UK Ltd** 

CPX Technology Building, Pepper Road, Hazel Grove, Stockport, SK7 5BW, U.K.

t: +44 (0)161 487 2822 | f: +44 (0)161 487 2816 | e: info@precisionuk.co.uk

www.precisionuk.co.uk