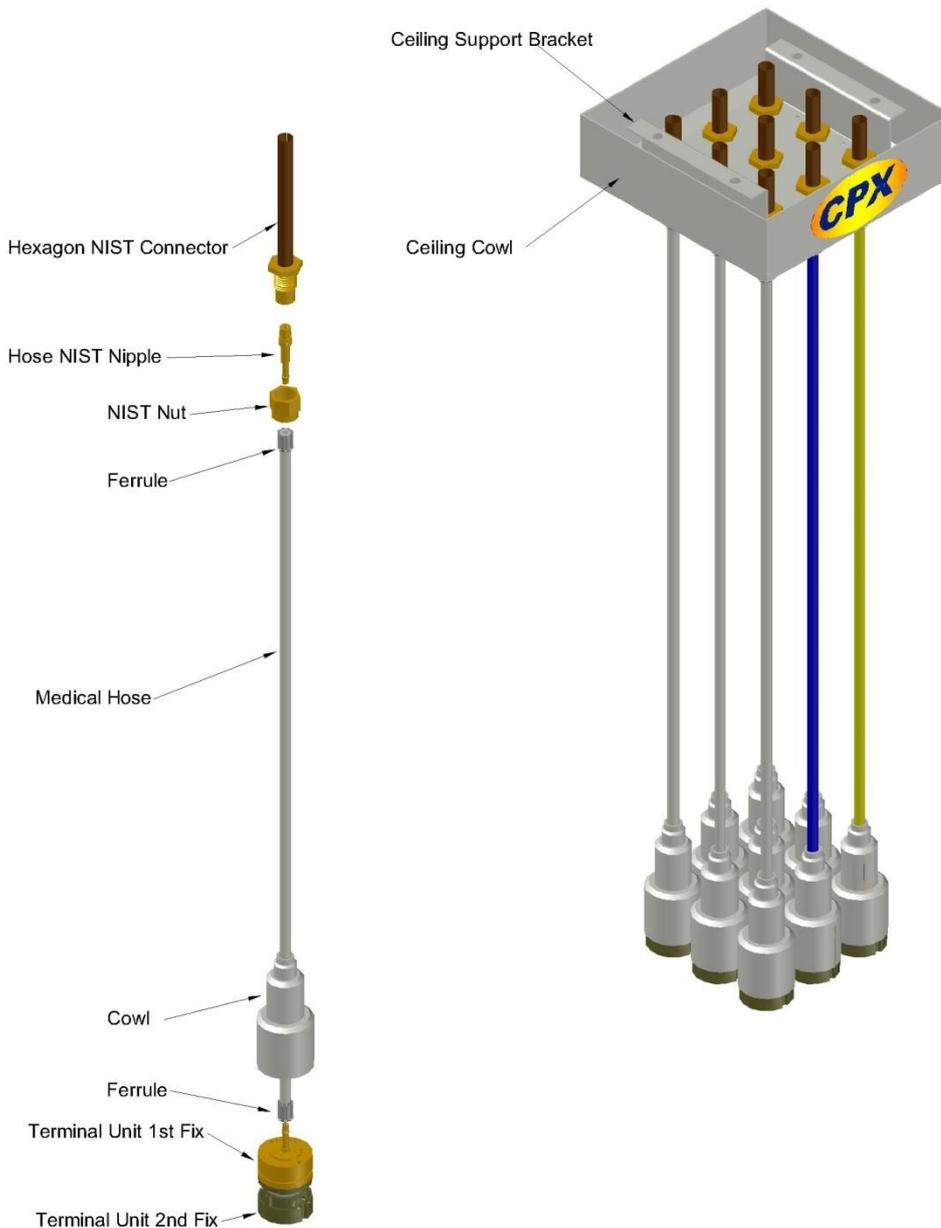


Technical Specification

Flexible Pendants



The CPX flexible pendant is intended to be used in operating theatres, anaesthetic rooms and similar locations in hospitals. They are an ergonomic solution for the provision of medical gases at the point of use and are intended to overcome the trip hazard associated with trailing hoses.

Flexible pendants consist of a 1st fix consisting of a ceiling support bracket for up to 9 hoses and hexagon NIST connectors. The second fix consists of hose assemblies incorporating terminal units and a ceiling cowl to cover the ceiling assembly for a clean aesthetic finish. Flexible pendants are supplied pressure and leak tested, and comply with the United Kingdom Department of Health (DoH) publications HTM 02-01, HTM 2022, NHS Model Engineering Specification C11. Flexible Pendants are CE marked under the Medical Devices

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Directive 93/42/EEC under the auspices of notified body no. 0086 (British Standards Institute). Under this directive, Flexible Pendants are classified as Class IIb Medical Devices.

First Fix Components

The first fix assembly comprise of a ceiling support bracket of folded epoxy powder coated mild steel plate with provision of between 1 and 9 gases. The gas specific first fix hexagon NIST connectors comprise of precision machined brass bodied connectors to BS EN 15908 which is soldered to copper stub pipe which is manufactured to BS EN 13348 for connecting to the hospital pipeline.

Gas Specific Hose Assemblies

The gas specific hose assemblies are available for:

No	Gas Specific Hose Assemblies
1	Oxygen (O2)
2	Nitrous Oxide (N2O)
3	50% Oxygen/ 50% Nitrous Oxide (O2/N2O)
4	Medical Air 400kPa 4 Bar (MA4)
5	Surgical Air 700kPa 7 Bar (SA7)
6	Vacuum (VAC)
7	Anaesthetic Gas Scavenging System (AGSS)
8	Carbon Dioxide (CO2)

Second Fix Components

The second fix comprises of gas specific precision machined brass NIST Nipples, Medical grade hose to BS EN ISO 5359 which is permanently crimped, Medical Gas Terminal Units which are manufactured to BS EN ISO 9170 and a ceiling cowl which is made of epoxy powder coated mild steel plate.

Gas Specific Terminal Units consist of:

First Fix Assembly

The first fix assembly shall comprise a precision-machined brass block of which the unit includes an indexed pin for each different gas service to prevent interchange ability, plastic components are not acceptable. The unit incorporates a maintenance valve/flutter disc, which will automatically shut off the gas supply if the second fix assembly is removed whilst the pipeline system is under pressure to enable servicing of the 2nd fix and valve without isolation of the gas supply. The terminal unit 1st fix includes mounting positions via M4 tapped holed in 4 positions, allowing the 2nd fix to be installed at any 4 of 90degree increment.

Check Valve Assembly

The check valve assembly comprises of a spring-loaded valve housed in a precision machined brass body. The check valve permits the gas to flow when a probe is connected and seals off the gas flow when the probe is disconnected. The unit is installed between the first fix and the second fix.

Second Fix Assembly

The second fix assembly comprises of a gas specific body, which accepts, retains and releases the probe. It shall be supplied as a complete product with no assembly to be undertaken. The base of the body is indexed to match the first fix assembly. The front face of the second fix assembly incorporates a colour coded gas identity label that indicates the gas type in 2 positions at 180 degrees to each other to allow visual acknowledgment of the gas type.

A stainless steel anti-swivel pin shall be located at 12 o'clock to prevent flow meters from falling over while inserted into the 2nd fix. The unit will only accept the probe for the appropriate service. Gas specific components comprising the terminal unit second fix shall be manufactured from fire retardant polymer compatible with oxygen and for use in MRI. The second fix socket shall incorporate a sheer-plane to safeguard the first fix and pipeline in the event of accidental damage or bed jacking. Gas specific components shall incorporate the Gas Identity marking, EN 9170 and the manufacturer identification mark CPX

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permanently stamped or cast into the component surface. Probe roller pins shall be manufactured from stainless steel and positioned by the locking ring, these are tamper proof only serviceable using specialist tools. Probe roller pins held captive in cradle designs are not acceptable as this will cause dust settlement and malfunction/sticking.

Hose Assemblies consist of:

PRECISION UK Medical Gas Hoses are designed to meet the latest international regulations which now require all tubing to identify the phthalate content and, where necessary, display health hazard markings to eliminate any potential patient exposure.

Key features:

Manufactured under BS EN 13485 Medical Devices Quality Management System

Conforms to BS EN ISO 5359:2008 Hose, BS EN 15908 NIST and BS 5682: 1998 Probe Specifications

MRI compatible, contains no plasticizer and retains flexibility over time.

CE 93/42/EEC marked CE0086 and batch traceability.

Static dissipation is achieved by using ESD material with a surface resistivity of $1.1E11$ I/Sq when tested to ASTM D 257 which prevents any risk of static build up.

The wipe down cover contains a slow release antimicrobial agent resistant to many bacteria strains including MRSA, E. coli, Listeria, Salmonella, Aspergillus Niger and Pseudomonas species.

Each hose is permanently secured to all fittings with stainless steel crimped ferrules, and incorporates a window to enable verification that the hose is fully secured onto the hose barb.

We can manufacture any length of hose which shall be colour coded throughout their length as specified in BS EN 5359:2008- Medical Oxygen – White, Nitrous Oxide – Blue, Medical & Surgical Air – Black, Vacuum – Yellow other colours available on request.

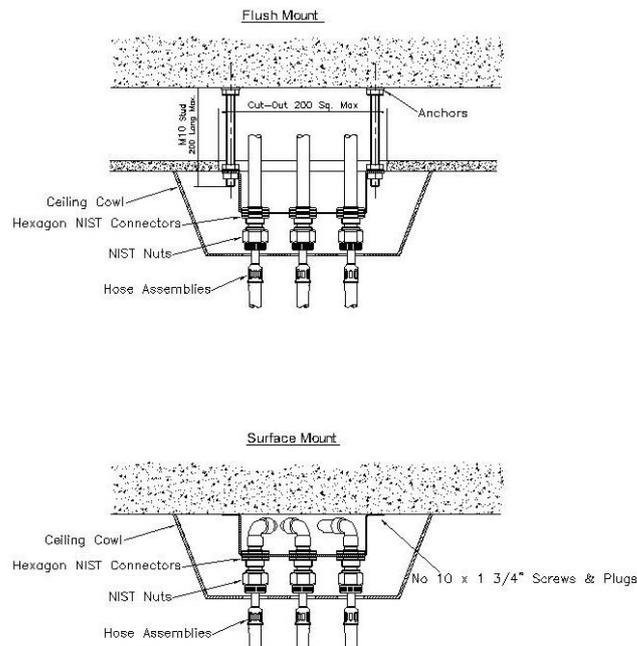
Connections available:

Nist – Male and Female

BS Probe for outlet connection

90 degree connections

Flexible Pendant Installation



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