MQR ENTERPRISES®

MEDICAL GAS EQUIPMENTS

A LEADING MANUFACTURERS AND EXPOTERS OF MEDICAL GAS PIPELINE SYSTEM EQUIPMENTS AND ACCESSORIES

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At MQR ENTERPRISES we lead the industry as a premier manufacturer of medical gas pipeline system ezquipment, renowned for our commitment to excellence and innovation. we have set the standard for quality and reliability in healthcare facilities worldwide. Driven by a passion for advancing healthcare delivery, we specialize in designing and producing state-of-the-art medical gas systems that ensure safety, efficiency, and compliance with global standards. Our extensive product range includes Medical Gas Pipeline Systems, Medical Gas terminals, Bed head Panel, Single arm and Double arm Pendent Medical Gas Regulatory System etc each crafted with meticulous attention to detail and backed by rigorous testing processes. What sets us apart is our unwavering dedication to performance. Our products not only meet but exceed the expectations of healthcare professionals, architects, and engineers who rely on our solutions for critical medical gas delivery. We take pride in our ability to innovate continuously, anticipating industry trends and customer needs to deliver cutting-edge technologies that optimize patient care and operational efficiency.

As we continue to expand our footprint globally, we remain committed to upholding the highest standards of quality, reliability, and customer satisfaction. Discover how MQR ENTERPRISES can elevate your healthcare facility with industry-leading medical gas pipeline system solutions.

MISSION

"Precision in every Pipeline
Care in every connection"

VISION

"Transforming healthcare with cutting edge medical gas solutions, ensuring safety, reliability and excellence in patient care globally"

ISO 9001 : 2015 Certified Company

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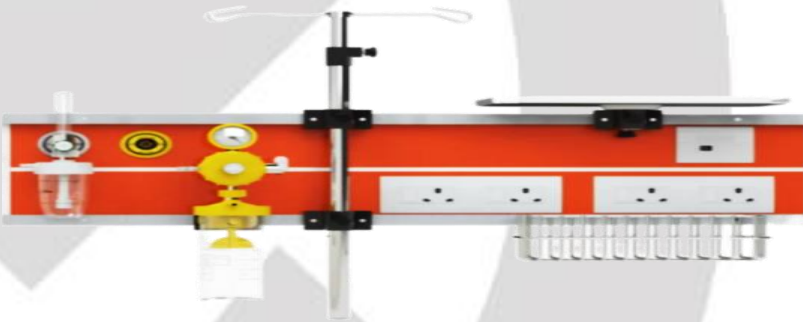
BED HEAD PANEL

Properties of Bed Head Panel

- **Durable:** Aluminium is naturally corrosion-resistant and can withstand wear and tear in healthcare environments.
- **Machinability:** Aluminium is easily machinable, allowing for fabrication into various shapes and designs for bedhead panels.
- **Strength:** aluminium alloys offer a range of strength levels suitable for equipment or accessories on the bedhead panel.
- **Surface Treatment:** Aluminium can be treated with various finishes to enhance aesthetics, durability, and clean ability. Some options include:
  - **Anodizing:** Creates a hard, corrosion-resistant oxide layer available in various colours
  - **Powder Coating:** Provides a durable, coloured finish with good chemical resistance.
- **Sustainability:** Aluminium is a recyclable material, making it an eco-friendly choice for bedhead panel.
- Outlet upto 5 gas service
- Ward Vacuum unit clamp
- Strong Aluminium Extruded Alloy
- Length as per customer requirement
- Colour as Per customer requirement or standard



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OUTLETS

British Standard (B.S)

British standard gas terminal points, also known as BS medical gas outlets. These terminals are designed for specific gases and ensure safe and reliable delivery. Here's a breakdown of their key specifications:

- Typically made of brass alloy for durability offering excellent strength and corrosion resistance for long-lasting performance in healthcare environments.
- Available in various entry options like pipe entry, top entry and back entry
- Designed to prevent accidental disconnections and gas leaks.
- BS gas terminal points are pressure and leak tested for safety.
- They are a crucial component for ensuring the safe and efficient delivery of medical gases in healthcare settings

Parkodex Outlet

- **Material:** Parkodex points are often made from brass or plastic. Brass offers better durability than plastic, but both materials can be reliable depending on usage and environment.
- **Quick Connect/Disconnect:** Similar to BS points, Parkodex utilizes a quick connect/disconnect mechanism with dedicated probes for each gas type.
- **Easy Installation:** Parkodex points are designed for ease of installation.

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BPC FLOW METER WITH HUMIDIFIER

The oxygen BPC (Bourdon Pressure Gauge) flow meter for Medical gas pipeline systems is designed specifically for oxygen (O2) delivery It features a flow range of 0-15 liters per minute (LPM) with an accuracy of ±5% of full scale, ensuring precise flow control essential for patient care. Compatible with standard medical gas fittings

HUMIDIFIER BOTTLE

The oxygen humidifier bottle for medical gas pipeline systems is designed to effectively humidify oxygen before it reaches patients. It typically features a capacity of 250 ml constructed from durable transparent plastic for easy monitoring of water levels We offer this Bottle in Two Types Such as Nut Type (for flow meter) and Screw type (for Fine adjustment Valve)

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MOX REGULATORS

• **Safety:** MOX regulators prioritize safety with pressure relief valves that vent excess pressure, protecting equipment and patients. Some models add check valves to prevent gas backflow, ensuring pure gas delivery.

• **Uses:** Essential for medical gas systems, MOX regulators connect high-pressure cylinders to lower-pressure hospital piping. This allows controlled delivery of oxygen, nitrous oxide, air and carbon dioxide

• **Durability:** Built to last, MOX regulators have bodies typically made from strong brass resisting corrosion and wear. Robust internal components ensure long-term performance and reliable gas pressure control.

• **Control:** MOX regulators offer precise control. Adjustable knobs let healthcare professionals set the desired delivery pressure for each patient, ensuring accurate and safe gas administration during treatments.

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WARD VACUUM UNIT

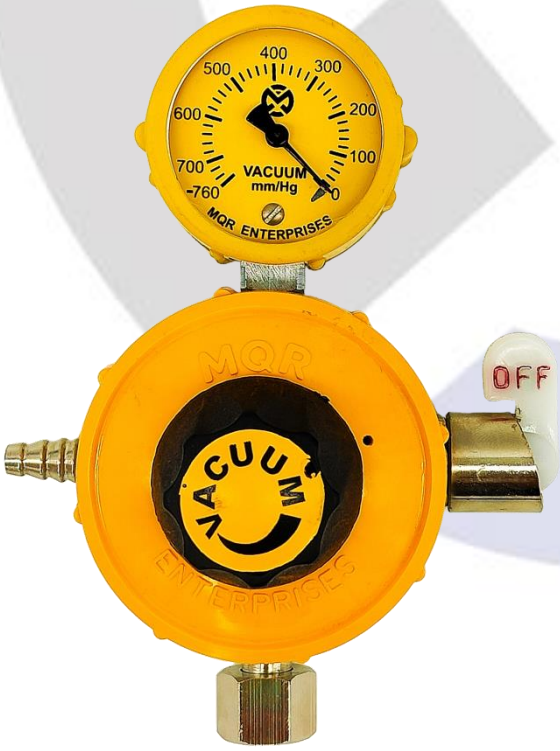
• **Controlled Suction & Safety:** Ward vacuum units provide controlled suction for various medical procedures at the bedside. They feature adjustable regulators and often include overflow protection valves to prevent spills and ensure patient safety.

• **Easy Operation & Monitoring:** With user-friendly controls and gauges, healthcare professionals can easily adjust suction levels and monitor collected fluids through a transparent jar.

• **Durable Construction:** The unit's body is typically made from strong materials like ABS plastic or metal, while the collection jar is often constructed from shatter-resistant polycarbonate for long-lasting use.

• **Reusable and Maintainable:** Ward vacuum units are designed for repeated use. Detachable collection jars and easy-to-clean surfaces facilitate efficient cleaning and disinfection procedures.

VACUUM REGULATOR



• **Precise Control & Safety:** Ward vacuum regulators allow for precise control of suction levels used in various medical procedures. They often include features like pressure relief valves to prevent damage and overflow protection to ensure patient safety.

• **Easy Adjustments:** Designed for user-friendly operation, ward vacuum regulators typically feature adjustable knobs or dials that allow healthcare professionals to set the desired suction level for each patient's needs.

• **Durable Build:** The regulator's body is typically constructed from strong materials like anodized aluminum for long-lasting performance in demanding environments.

• **Low Maintenance:** Ward vacuum regulators require minimal maintenance. Regular cleaning and visual inspections ensure optimal performance and safety.

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SUCTION JAR

• **Collection and Safety:** Suction jars collect fluids and secretions during medical procedures using suction from the pipeline. Overflow protection valves prevent spills and potential contamination, ensuring patient safety.

• **Versatility in Use:** Available in various sizes (typically ranging from 600ml to 2000ml), suction jars cater to different procedures requiring low or high-volume fluid collection.

• **Clear Visibility:** jars are constructed from transparent materials, allowing healthcare professionals to easily monitor fluid levels and contents during procedures.

• **Durability Built-in:** Made from shatter-resistant materials like polycarbonate, suction jars are designed to withstand the demands of repeated use and cleaning in a hospital environment.

• **Easy Maintenance:** Suction jars are typically reusable, with detachable lids and smooth surfaces for efficient cleaning and disinfection procedures.

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FINE ADJUSTMENT VALVE

- **Precise Control & Patient Safety:** Fine adjustment valves allow for meticulous control of gas flow rates delivered to patients. This ensures accurate dosing of medical gases like oxygen crucial for patient safety and treatment effectiveness.

- **Widespread Use:** Found throughout medical gas pipeline systems, these valves are used at the point of care, typically on flowmeters or directly on gas outlets, for precise adjustments during procedures.

- **Simple Operation:** Designed for ease of use, fine adjustment valves typically feature a rotating knob or handle that healthcare professionals can adjust to control the gas flow rate precisely.

- **Durable Construction:** Made from high-quality materials like brass, these valves are built to with stand frequent adjustments and the rigors of a hospital environment.

- **Easy Maintenance:** Fine adjustment valves require minimal maintenance. Regular cleaning and visual inspections ensure smooth operation and prevent leaks or malfunctions.

SELF SEALING VALVE

Self Sealing Valve prioritize safety with automatic shutoff upon disconnection, preventing leaks. Some even have check valves for pure gas delivery. These valves come in single or double outlet options for connecting various equipment at the point of care. Their user-friendly design with dedicated keys and automatic sealing simplifies workflow. Built to last with strong materials like brass or stainless steel they require minimal cleaning and inspections for reliable gas flow and patient safety. This ensures accurate dosing of medical gases like oxygen, nitrous oxide, or air, crucial for patient safety.

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COPPER TUBE

Degreased Copper Tube MGPS as per EN 13348

Properties of Copper Tube:

• **Corrosion Resistance:** Copper is naturally resistant to rust and corrosion, unlike some other metals. This ensures the pipes maintain their integrity and don't contaminate the medical gas supply.

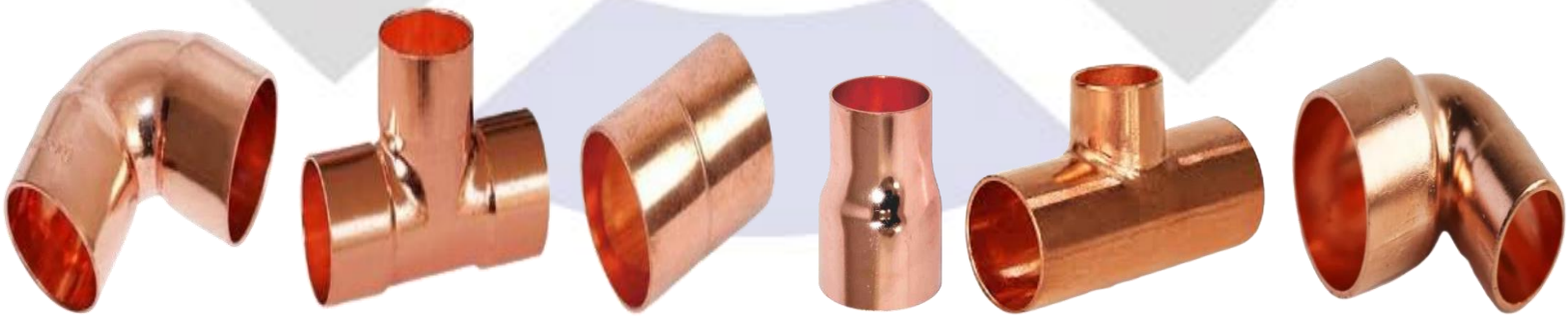
• **Antimicrobial Properties:** Copper has inherent bactericidal, fungicidal, and algicidal effects, which can help prevent the growth of harmful microbes within the pipes.

• **Workability:** Copper is a malleable and ductile metal, making it easy to bend and shape during installation. This allows for greater flexibility in designing and fitting the pipe network within a medical facility.

copper tubes play a critical role in securely transporting medical gases such as oxygen, nitrous oxide, and medical air within healthcare facilities. Their meticulous manufacturing process and adherence to stringent quality standards contribute to the safety, reliability, and efficiency of medical gas delivery systems. Regular maintenance and adherence to installation guidelines are essential to maximize their service life and performance in medical environments.

COPPER FITTING

Copper fittings used in Medical Gas Pipeline Systems (MGPS) are essential components that ensure secure and reliable connections between copper tubes and various medical gas devices. Copper fittings include elbows, tee, couplings, reducers, and Tee Reducers These fittings are available in various configurations and sizes to accommodate the layout and requirements of medical gas systems.



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ACCESSORIES

SEMI AUTOMATIC CONTROL PANEL

FULLY AUTOMATIC CONTROL PANEL

MEDICAL GAS ALARM SYSTEM

AREA VALVE BOX

THREATRE SUCTION TROLLEY

COPPER TAIL PIPE

SS BRAIDED TAIL PIPE

CYLINDER MANIFOLD

CYLINDER VALVE

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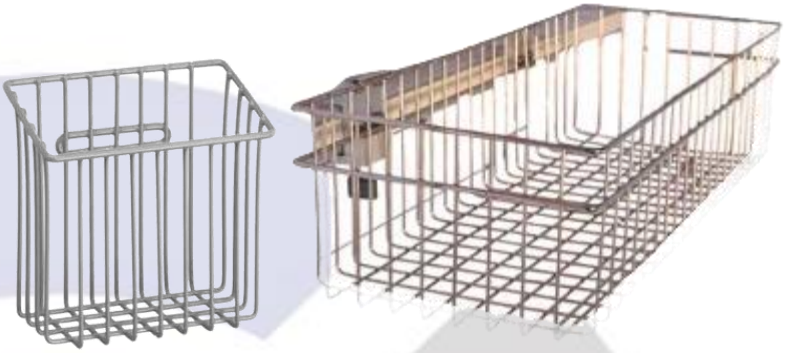
ACCESSORISES

MONITOR STAND



MONITOR STAND BASKET

BED HEAD UNIT MEDICAL RAIL

SELF SEALING OUTLET COVER

SADDLE

ISOLATION VALVE

HIGH PRESSURE TUBE

CYLINDER TROLLEY

CYLINDER KEY