



# *M.R. Engg. Works Pvt. Ltd.*

MEDICAL GAS PIPELINE SYSTEM | MODULAR OPERATION THEATERS | NURSE CALL SYSTEM  
CUBICAL CURTAIN TRACKS

# Content

## Index

Page No.

Who We Are	03
Vision & Mission	04
Company Profile	06
Medical Gas Control & Automatic Changeover	07
Cylinder Frame Header	08
Alarm System	09
Area Valve Service Unit	11
Single Area Valve	11
Compact Multi Valve AVSU	11
Medical Gas Outlets	12
Accessories	13
Tubing For Medical Gas	13
Vaccum Regulators & Medical Suction Devices	14
Theatre Suction Trolley	16
Medical Oxygen Flowmeter	16
Monitor Stand	17
Cubical Curtain Track	17
Nurse Call System	18
Pendants	19
Bed Head Panel	21
Columns	23
Operation Theatre	23
Operation Theatre Accessories	24
Air Compressor & Vaccum Pump	26
Anaesthetic Gas Scavenging System	27
AGSS / WAGD Accessories	28
Project & Installation Picture	29
Our Clients	30
Previous Exhibition	31

# Who We Are

M.R. Engg Works Pvt. Ltd. (formerly M.R. Engineering Works) is one of the leading manufacturers and suppliers of **Medical Gas Pipeline Systems (MGPS)**. Our company has extensive technical expertise and professional skills in designing, developing, and delivering specialized **Medical Gas Pipeline Systems (MGPS)** products for the Medical & Healthcare Domain.

We undertake the design and development of **MGPS** products for specialized applications, ensuring high levels of precision engineering, and maintaining consistent quality. Our state-of-the-art facility, combined with our focus on continuous improvement, enables us to deliver innovative and reliable **MGPS** products. The entire manufacturing process is supervised by our experienced promoters who have accumulated vast experience over the last five decades.

Our primary strength lies in providing a comprehensive range of **MGPS** products that meet the highest standards of safety and efficiency. We are committed to excellence in every aspect of our operations, from the initial design phase to final implementation, ensuring that our products meet the specific needs of our clients in the Medical & Healthcare Domain.

Our specialized **MGPS** products include a wide array of Medical Gas Pipeline Systems designed for various healthcare environments. It is our diverse R&D skills that ensure these products are consistently innovative and reliable. Our success in the **MGPS** industry is a result of our unwavering commitment to quality and customer satisfaction.



**Ex-Serviceman of BOC INDIA LTD**

## Vision & Mission

To be the best-performing and leading manufacturer, supplier, service provider, and technology consultant of Medical Gas Pipeline Systems (MGPS) globally, as determined by our customers, employees, suppliers, and the medical infra sector in which we operate.

We are dedicated to creating innovative, well-equipped medical equipment to provide the utmost care to each patient, making their experience more comfortable. We develop our products using the latest technology to ensure sustainability and provide doctors with the tools they need to offer better patient care. Our commitment to continuous improvement (KAIZEN) in quality performance drives us to achieve our mission and goals.



**M.R. Engg. Works Pvt. Ltd.** (formerly M.R. Engineering Works) respectfully acknowledges its profound gratitude to its founder, **S. Mohinder Singh**, whose unwavering dedication and industrious efforts have enabled the company to secure a prominent position in the **Medical Gas Pipeline System (MGPS)** manufacturing and sales industry.

Mr. Singh, a paragon of discipline and commitment, commenced his illustrious career with BOC India Ltd in 1962. Over a distinguished tenure spanning 35 years, he honed his professional expertise, culminating in an exemplary record of service until 1996.

In 1996, leveraging his exceptional skills and innovative vision, Mr. Singh established an independent manufacturing and trading enterprise in Delhi, specializing in **Medical Gas Pipeline Systems (MGPS)**. His meticulous supervision and adherence to stringent quality control protocols ensured the consistent delivery of superior products to the market.

Mr. Singh's steadfast principles and professional integrity have fostered enduring relationships with vendors both domestically and internationally. Today, **MGPS** products and accessories produced by **M.R. Engg. Works Pvt. Ltd.** are highly esteemed and in great demand among corporates, government hospitals, as well as private and government medical colleges and clinics, both within India and abroad.

Prominently, BOC India Limited and numerous multinational corporations, recognized leaders in the field, have incorporated products from **M.R. Engg. Works Pvt. Ltd.** into their approved vendor lists.

The notable acclaim and technological excellence of **M.R. Engg. Works Pvt. Ltd.** products are a direct reflection of Mr. Singh's visionary leadership and innovative prowess.

May divine providence grant **S. Mohinder Singh** a long and healthy life, enabling him to continue his invaluable guidance and influence on the company in the years ahead.



# Company Profile

We are pleased to introduce ourselves as a premier manufacturer, supplier, service provider, and technology consultant specializing in Medical Gas Pipeline Systems (MGPS). For over 35 years, we have been dedicated to supplying and installing our products in medical institutions, hospitals, and nursing homes nationwide. Our adoption of advanced technology ensures precision and accuracy in our manufacturing processes, contributing to the superior quality of our products and services. This commitment has established us as a significant player in the market. Our extensive R&D activities further enhance our ability to deliver safe and hygienic gas delivery systems to our clients.

Our manufacturing unit is equipped with state-of-the-art machinery, enabling us to meet bulk production targets within the specified timelines set by our customers. Utilizing the latest design software, we produce dimensionally accurate products tailored to our clients' specific requirements. Our entire manufacturing and assembly process is supported by a team of highly skilled and experienced professionals. By maintaining an unwavering focus on quality control and integrating R&D inputs, we ensure that our products meet the highest standards of quality and cater effectively to the needs of end-users. Our advanced R&D division has been instrumental in developing and offering the best quality MGPS products. All business operations at our facility are executed by qualified and skilled personnel to ensure efficiency.

Our products are designed to deliver consistent and reliable performance, adhering to the highest quality standards and leaving no room for complaints. Additionally, our comprehensive after-sales service, including warranties on various products, bolsters our brand reputation—M.R. Engg. Works Pvt. Ltd. Our customers consistently express satisfaction with our performance and efficiency.

We are an ISO 9001:2015 certified company, complying with the Medical Device Quality Management System (QMS) ISO 13485:2016 standards. Our products also meet International Quality Standards (IQS) and are CE certified. We cater to the needs of medical colleges, hospitals, and nursing homes across India. Furthermore, our products are well-represented in dealer networks throughout various Indian states, including Bangalore, Delhi, Hyderabad, Kerala, Maharashtra, Mumbai, Madhya Pradesh, Orissa, Punjab, Uttar Pradesh, and Tamil Nadu.

We pride ourselves on offering competitive and reasonable pricing tailored to our customers' needs. It would be an honor to be included in your project list and to receive your valued inquiries, which will be promptly attended to by our competent workforce. We look forward to establishing a long-standing association with you and appreciate your cooperation in advance.

# Medical Gas Control & Automatic Changeover

Automated Control Panel is a panel attached to 2-4 banks having multiple gas cylinders. Automated Control Panel System contains analog pressure meter for displaying pressure of each incoming bank and main line gas pressure. As soon as the gas in one bank runs below set pressure, it sounds an alarm and switches to the other bank. Specific colored LED lights indicate the bank in use and the bank on standby. The device also indicates whether the gas pressure is in normal or low along the banks and the mains. The Digital Automated Control Panel displays actual pressure in each bank. The feature of parallel system is available in which multiple displays are placed at different locations (or floors) which also show the same indicators as in the main System. These panels come with RS-485 Modbus interface for BMS connectivity. Provision is made for adding external NO/NC interface for each bank individually. GSM Gateway can monitor the status of each Automated Control Panel and report status as desired.



Semi - Automatic Control Panel



Fully Automatic Control Panel - Analog



Fully Automatic Control Panel - Digital



3 Source Fully Automatic Control Panel

# Medical Gas Control & Automatic Changeover

## Touch Screen - Med Touch



Fully Automatic Control Panel  
Touch Screen



3 Source Fully Automatic Control Panel  
Touch Screen

08

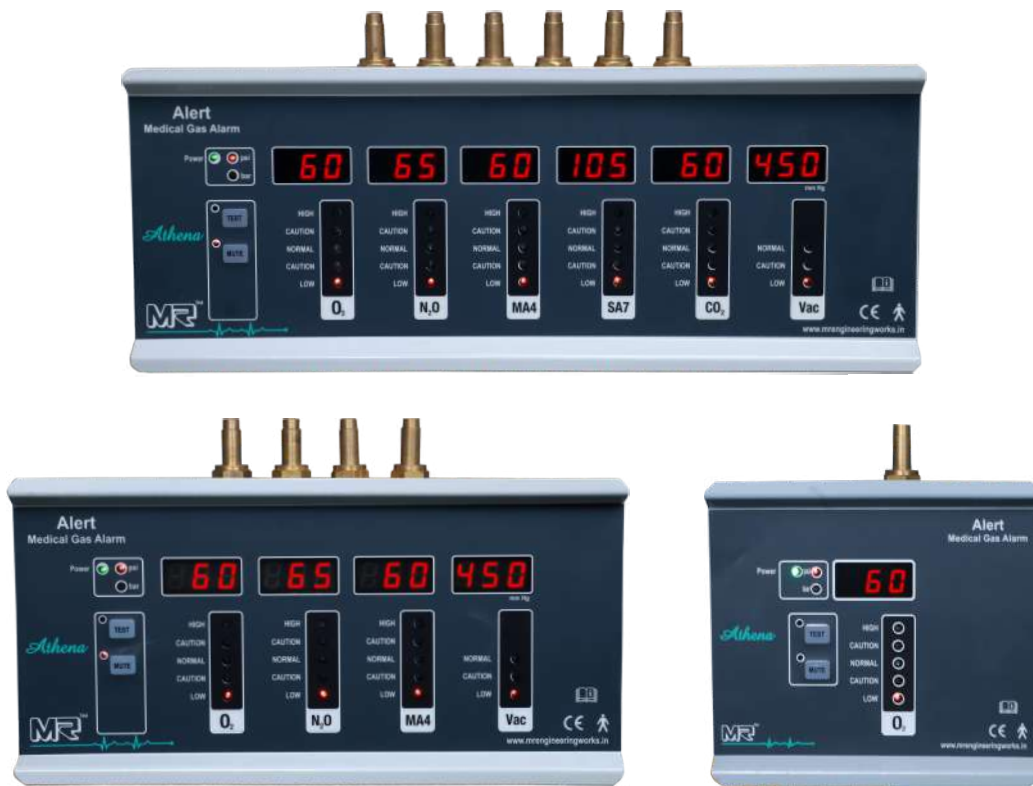
## Cylinder Frame Header





# Alarm System

## Digital Gas Alarm System



09

Digital Gas Alarm Systems come in 1, 2, 3, 4, 5, 6, 7 and 8 gas categories where the number indicates the number of gasses the system can handle. The system measures the pressure of the different gasses coming from the pipe lines and displays the measured levels on the panel in psi and bas. In case of High Pressure or Low Pressure it generates appropriate Alarm. These alarms come with RS-485 Modbus interface for BMS connectivity. One NO/NC terminal is built-in for alarm extension and provision is made for adding external NO/NC interface for each gas individually. The alarm is shown on the Master Alarm System which is placed with the administration and can also be communicated through SMS using GSM Gateway.

## LCD Alarm Alert-1 (Med Touch)



# Alarm System

## Analog Gas Alarm Systems



## Master Alarm

Master Alarm System is a mainly used in the system for providing information and current status of multiple gas alarms and is capable of supporting various gas alarms of different gas categories. The main feature is for remote monitoring of various gas alarms installed in Hospitals's rooms with displayed color LEDs. The main benefits of this products are:

- ◆ Support for multiple gas alarms (Max up to 20).
- ◆ Different category gas alarm support (2 Gas to 6 Gas type).
- ◆ Real Time and Simultaneous Monitoring.
- ◆ Interactive color LED's, push buttons and 7-segment display.
- ◆ Buzzer provided for sound alarm.
- ◆ Mute and Test Buttons.
- ◆ 485 connectivity for long range.



# Area Valve Service Unit

Area Valve Service Unit are mainly used in Medical Gas Pipeline System of individual zones without disturbing the gas flow to other zones. In case of emergencies, Area Valve Service Unit can also be used to shutoff of gas distribution to individual zones. A single box can hold from 1 to 6 valves, allowing control of 6 type of gases. All boxes are factory-assembled with the smallest valve on top, largest on bottom.



## Single Area Valve

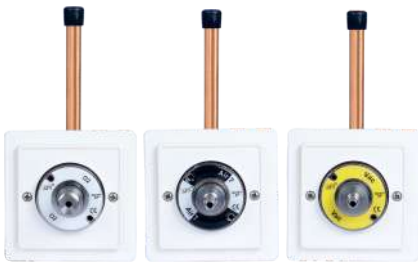


11

## Compact Multi Valve AVSU



# Medical Gas Outlets



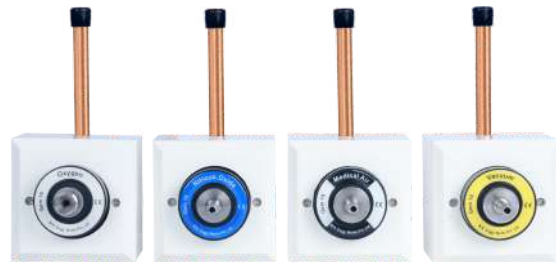
British Standard Compatible  
(100% Metal) Nemo XP



British Standard Compatible  
(Nemo Safe)



DISS Compatible



British Standard Compatible (Gem 10)

12



Puritan-Bennett Compatible



Parkodex Compatible



DIN Standard Compatible



Fusion Compatible



Schrader Type Outlet



Probes / Adapter

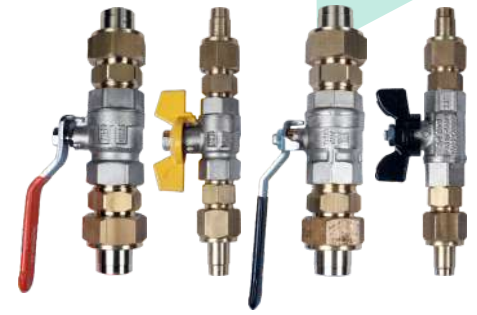
# Accessories



Regulators



Plastic Shaddles & Clamps



Isolation Ball Valves



Regulators



Pressure Gauges



Baskets



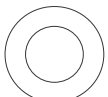
Flexible Tail Pipe Connection & Brass NRV

# Tubing For Medical Gas

## Supply and Artificial Respiration



OXYGEN



WHITE

NITROUS OXIDE



BLUE

MEDICAL AIR



BLACK

CARBON DIOXIDE



GREY

AGSS / WAGD



PURPLE

VACUUM / SUCTION



YELLOW

# Vaccum Regulators & Medical Suction Devices

## Vaccum for Healthcare



14

Patient Port      Vacuum Port

Reusable Polycarbonate Collection Jar  
1L with Leak Proof Self Sealing Lid

# Vaccum Regulators & Medical Suction Devices



Direct Mount on wall outlet & Collection Jar on Medical Rail below Patient Body Level



Direct Mount on Bed Head Panel & Pendants

# Theatre Suction Trolley



Theatre Suction Trolley



Theatre Suction Trolley



Theatre Suction Trolley

16

# Medical Oxygen Flowmeter



0-5 lpm



0-15 lpm



0-70 lpm



Humidifier Bottle



# Monitor Stand



Monitor Stand Multi Movement



Monitor Stand

# Cubical Curtain Track



IV Hanger



# Nurse Call System

Nurse Call system acts as an interface between patients and the hospital administration/nurses. The main unit is placed with the administrator and its subordinate 'Corridor panels' placed outside every room. The corridor panel is then connected to the very compact, easy to handle bed panels which are used by the patients to call the nurse. Nurse Call system makes the patient administration efficient and greatly simplifies patient care. The patient can press the appropriate button when he requires assistance, which will then show on the corridor and main panels. If the nurse is near the room, she will see the corridor panel light and immediately assist the patient. Otherwise, the attendant at the main panel can acknowledge the call, which will light up the LED 'waiting' on the bed panel informing the patient his call has been acknowledged. The main panel displays the corridor wise and room wise segregation of panels. The usual problems associated with installing such systems are extensive and complicated wiring. The usage of single cable wiring in Nurse Call System makes sure wiring is easy and not expensive.

## The system's modules consist of:

◆ Central Display Console

◆ Bed Side Unit

◆ Corridor Unit

◆ Bathroom Unit

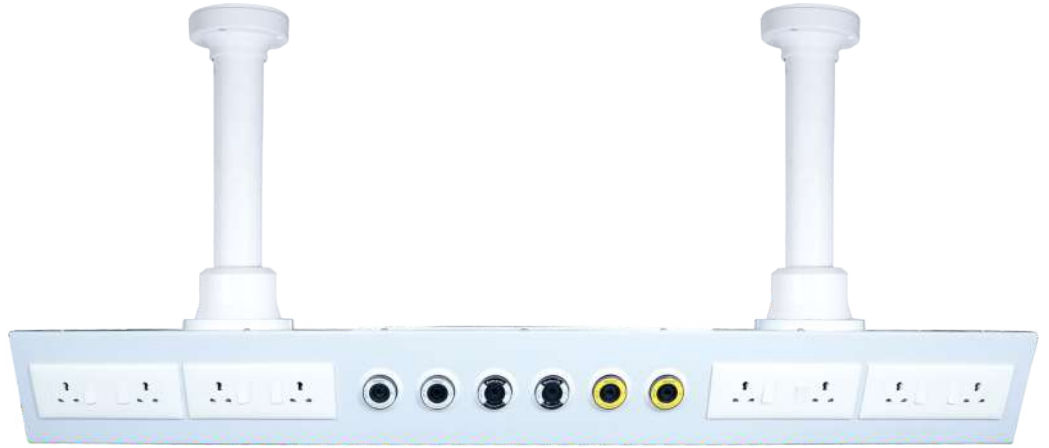
◆ Patient Remote



# Pendants



Swivel



ICU Pendant



Single Arm



Double Arm

# Pendants



Stainless Steel Rigid Pendant



Endoscopy / Laproscopy Pendant

# Bed Head Panel



# Bed Head Panel



22



These panels are specially designed as per the Hospital Standards. The panels are available in various lengths/ These are powder coated as per the customer's color choice. The following items can be incorporated in the Bed Head Panel :

A railing is placed on the Top Profile of the panel. The following accessories can be put on this railing.

- ◆ Infusion Pump/Syringe Pump Stand
- ◆ I.V. Bottle Holder
- ◆ Medicine/ Disposable Tray
- ◆ Examination Lamp



Vertical Panel

## Operation Theatre



# Operation Theatre Accessories



Operation Theatre Control Panel



Surgeon Control Panel (Touch Screen)



X-Ray Viewer



Writing Board



Hatch Box



Scrub Sink



# Operation Theatre Accessories



Vinyl Flooring

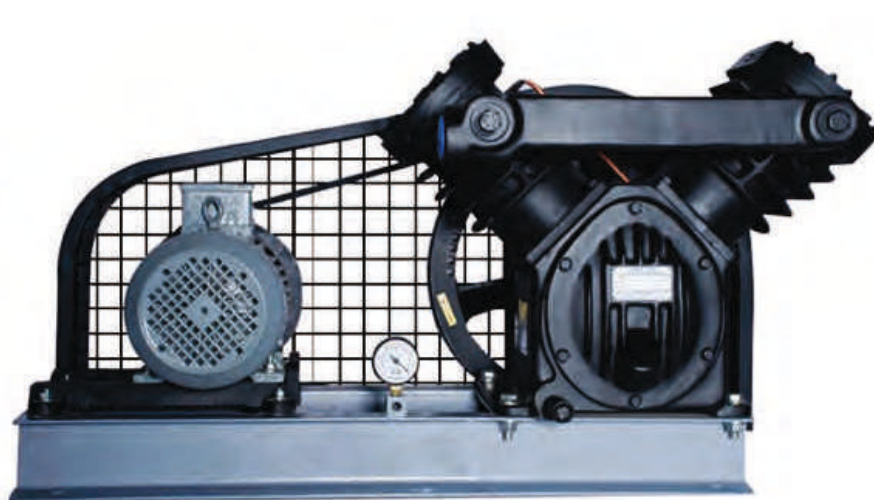


PRD



OT Door

# Air Compressor & Vacuum Pump



Vacuum Pump



Receiver Tank

26



Air Dryer



Air Compressor

# Anaesthetic Gas Scavenging System



AGSS - Simplex



AGSS - Duplex

# AGSS / WAGD Accessories



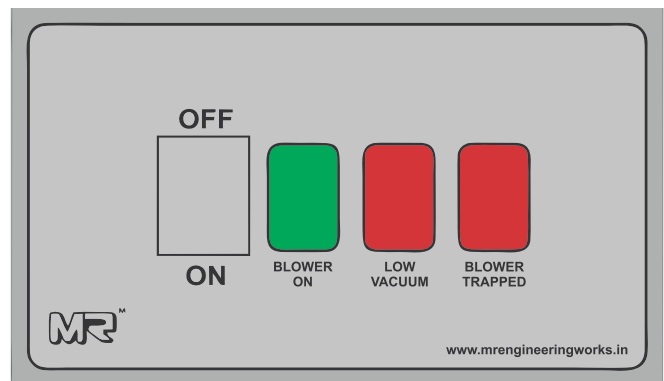
Receiver / Interface Unit



Receiver / Interface unit with transfer & Evacuation Hose assembly (3m) conforming to BS EN ISO: 80601-2-13:2012+A2:2019



3m BS Compatible AGSS Evacuation Hose Assembly (5m on request)



Remote Switch



Scavenging Connector for Transfer Hose - 30mm Iso Conical Male & Female (Pair)



Kink-resistance transfer hose with a Pair of 30mm Conical (ISO) Male & Female connector

# Project & Installation Picture



# Our Clients



# Previous Exhibition





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