



MEDICAL CENTRAL GAS SUPPLY SYSTEMS

MM40 - HP UNIT SEMIAUTO

EDITION 1/2013

MANIFOLDS SYSTEMS

Manifolds systems are providing the source of the medical gases in hospitals. Main function is reducing pressure from high pressure cylinders to the pressure level which is possible to use in the hospital pipe line. Manifolds have to fulfill the strict requirements of the medical installation standards and of course safety of all patients in the hospital.

GCE helps the installers to fulfill ISO 7396 and national installation standards with secure products where testing protocol guarantee great production testing. Our range is covering complete solutions of manifolds installations from high pressure manifolds to stabilizers, all in accordance with European legislation.

KEY BENEFITS

- Very stable outlet pressure irregularity coefficient 20x better than standard
- 40 m³/h is lowest flow
- Manifold dimensions are minimized
- Service without interrupt the flow



MM40 - HP UNIT SEMIAUTO



Manifold MM40 Semiauto is semi-automatic manifold. It is working on principal different pressure between operation and reserve regulator. By the manual handle operator can decide which side will be operational one and which reserve one. When operating side is empty manifold without any operation action start supply gas from reserve side with lower pressure value and fulfill requests to supply without interrupt the flow.

MM40 Semiauto manifolds should be use as second and third source of gas in connection with liquid gas tank. For hospitals without liquid gases is possible use manifold MM40 Semiauto as first and second source and connecting with MM90 Backup will give you final solution for fulfill ISO 7396-1 and national installation standards.

Manifolds is supply with Alarm system which increase safety to maximal level and inform hospital personal about each non standard situation. Gas Alarm C44 is Standard Accessory. The gas alarm C44 gives visual and audible indication.

IT SURVEILLANCE AND SOUNDS THE ALARM WHEN THE FOLLOWING HAPPENS:

1. Leaking reserve side
2. —
3. High operation pressure
4. Change operation side

The gas alarm C44 is able to communicate with other equipment through relays. The alarm has a battery back-up for 30 minutes of operation.

Manifold MM40 Semiauto is only first stage of regulation and must be install together with Stabilizer which will stabilize the pressure on final pressure use in hospital gas outlets.

GCE medical manifolds are CE marked and fulfill ISO 7396-1 standard.

SPECIFICATION

MM40 INCLUDES THE FOLLOWING COMPONENTS:

- MM40 SEMIAUTO Manifold
- Gas alarm C44
- Purge valves
- HP filters

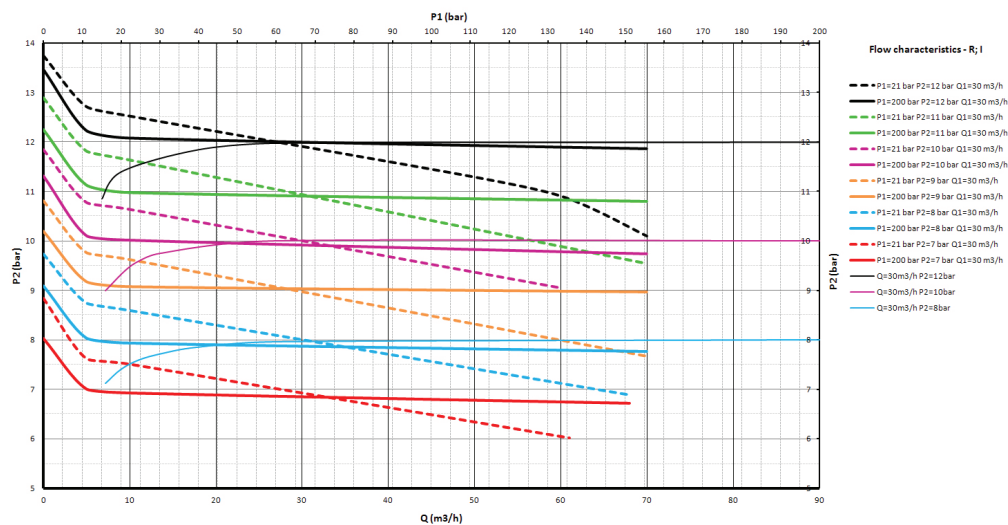
FOR A COMPLETE MM40 SEMIAUTO MANIFOLD ADD:

- Collecting pipe set (high pressure valves, and non-return valves /high pressure components/)
- Cylinder retaining brackets.
- High pressure hoses with safety wire.
- Plug for close collecting pipeline
- Gas name sign

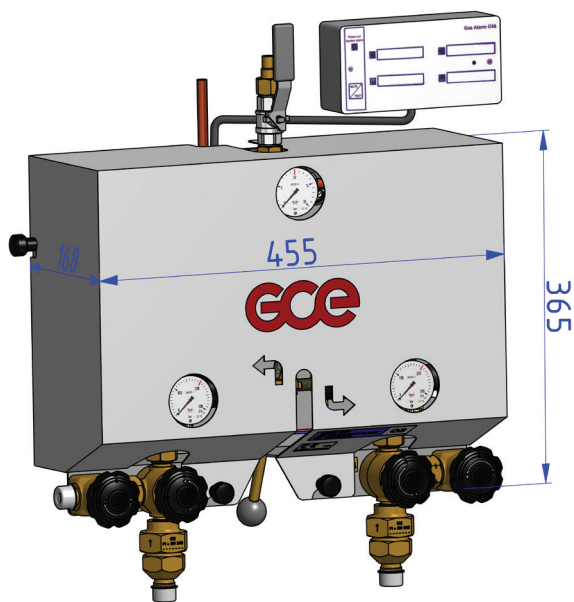
TECHNICAL DATA

Gases:	O ₂ ; Air; N ₂ ; N ₂ O; CO ₂ ; (all medical gases)
Nominal flow:	40m ³ /h
Inlet nominal pressure:	200 bar
Outlet nominal pressure:	11 bar (setting range 10-12 bar)
Inlet connection:	W21,8x1/14" M
Outlet connection:	G1/2" M + Soldering piece pipe Ø10, Ø15
Safety valve pipe dimension:	OD = 10mm
Purge valves connection:	W21,8x1/14" M
Regulatory status:	Complies with Medical directive 93/42/EEC
	Complies with EN ISO 7396-1 (Central Gas Supply system)
	Complies with EN 60601-1 (Electric safety)
	Complies with EN 60601-1-2 (Electromagnetic compatibility)

FLOW CHART OF MANIFOLD MM40 PRESSURE CHARACTERISTIC



BASIC DIMENSIONS



Note! Measurements in mm.

Art. Nr.	Denomination	Gas	Safety valve	Alarm
0727330	MM40 – HP unit 2x1	O ₂ , Air, N ₂	Standard	C44
0727335	MM40 – HP unit 2x1	N ₂ O, CO ₂	Standard	C44
0727331	MM40 – HP unit 2x1	O ₂ , Air, N ₂	Manual activation	C44
0727336	MM40 – HP unit 2x1	N ₂ O, CO ₂	Manual activation	C44
0727334*	MM40 – HP unit 2x1	O ₂ , Air, N ₂ , N ₂ O, CO ₂	Standard	-

* without Gas alarm and electronic sensors

OTHERS

Contact GCE for more detail information.

GCE Group is one of the world's leading companies in the field of gas control equipment. The headquarters are in Malmö, Sweden, and the two major supply units are located in Europe and Asia.

The company operates 15 subsidiaries around the world and employs more than 850 people. GCE Group includes four business areas – Cutting & Welding, Process Applications, Medical and High Purity. Today's product portfolio corresponds to a large variety of applications, from single pressure regulators and blowpipes for cutting and welding to sophisticated gas supply systems for medical and electronics industry applications.

