



MEDICAL CENTRAL GAS SYSTEM

GAS MANIFOLD DUPLEX - MC80

1. MC80 - HP UNIT

This module contains two regulators with pressure relieve valves and it is connected to two various cylinder banks with high pressure hoses. When the cylinder bank, which has been connected for operation, has been emptied the other duty side is automatically connected.

2. MC80 - STABILIZER

The stabilizer makes the operating pressure in the distribution system remain constant. The module contains two regulators with pressure relieve valves. Since the gas pressure is reduced in two steps the drop in pressure, when changing from the operating cylinder to the other bank of cylinders, is kept to a minimum. The unit is prepared for connection to a liquid oxygen supply tank (LOX).

3. GAS ALARM SYSTEM - based on the product variant



GAS MANIFOLD MC80

Alarm systems from GCE are user friendly solutions, with simple control and lots of extra functionality. It surveils electronically and the alarm sounds when the following happens:

- 1. Too high or too low distribution pressure,
- 2. Too high intermediate pressure,
- 3. Leakage on the reserve gas cylinder bank,
- 4. When change of operating side has been effected,

When connected to a liquid tank the following disturbances will be reported:

- 1. Too high or too low distribution pressure,
- 2. Too high intermediate pressure,
- 3. Leakage from the reserves,
- 4. When change of operating side has been effected.

The product is either equipped with an alarm system or a sensor only

SPECIFICATION

DUPLEX (MC80) INCLUDES THE FOLLOWING COMPONENTS:

- > MC80 – HP Unit
- > MC80 – Stabilizer
- > Sensors 4-20mA. Alarm based on item in column „Signalization“
- > Evacuating kits for collecting pipe
- > Shut-off valve for the distribution line
- > HP filters

FOR A COMPLETE DUPLEX (MC80) STANDBY MANIFOLD ADD:

- > Collecting pipe set (high pressure valves, and non-return valves, high pressure components)
- > High pressure hoses with safety wire
- > Gas name sign
- > Connection pipe 90 degree
- > Extension pipes if needed

Item No.	Denomination	Gas	PRV	Signalization
0732328	DUPLEX 2x1	O ₂	Manual activation	Alarm TMA9705
0732329	DUPLEX 2x1	Air	Manual activation	Alarm TMA9705
0732330	DUPLEX 2x1	N ₂ O/CO ₂	Manual activation	Alarm TMA9705

Gas Manifold - STABILIZER

Gas Manifold - HP UNIT

Gas ALARM



GAS MANIFOLD DUPLEX - MC80

TECHNICAL DATA

Gases:	O ₂ , Air, N ₂ , N ₂ O, CO ₂ (all medical gases)
Nominal flow:	200 m ³ /h

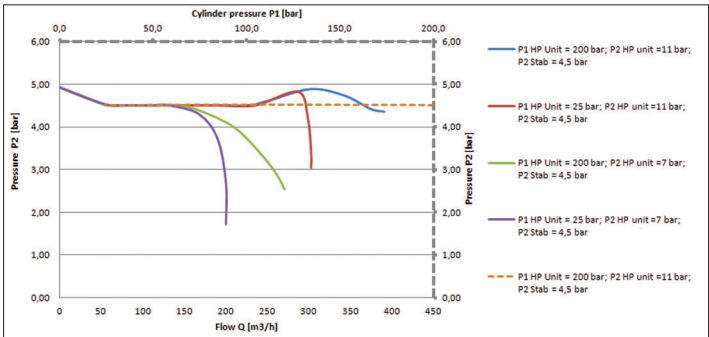
TECHNICAL DATA - HIGH PRESSURE UNIT MC80

Inlet nominal pressure:	200 bar (20 000 kPa)
Outlet nominal pressure:	12 bar (setting range 10–16 bar)
Inlet connection:	W21,8×1/14"M
Outlet connection:	G3/4"F
Pressure relieve valve:	17 bar
Pressure relive valve pipe dimension:	ø 10 mm
Purge valves connection:	W21,8×1/14"M + pipe ø 15 mm

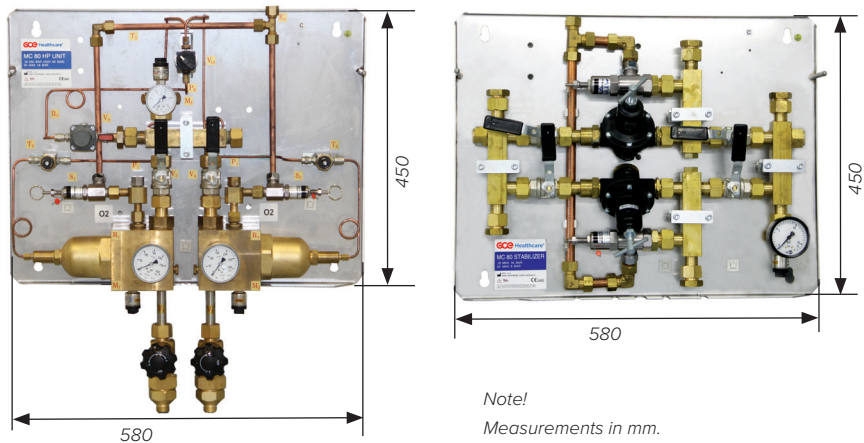
TECHNICAL DATA - STABILIZER MC80

Inlet nominal pressure:	20 bar (2000 kPa)
Outlet nominal pressure:	4,5 bar (setting range 0,5–6 bar)
Inlet connection:	G3/4"F
Outlet connection:	G3/4"F
Pressure relieve valve:	6,8 bar
Pressure relive valve pipe dimension:	ø 15 mm
Regulatory status:	Complies with Medical Devices Directive 93/42/EEC
	Complies with EN ISO 7396-1 (Central Gas Supply Systems)
	Complies with EN 60601-1-2 (Electromagnetic compatibility)
	present SIS HB 370 and HTM 02-01

FLOW CHART: SET MC80 - STABILIZER + MC80 - HP UNIT



BASIC DIMENSIONS



REGIONAL OFFICES

EUROPE

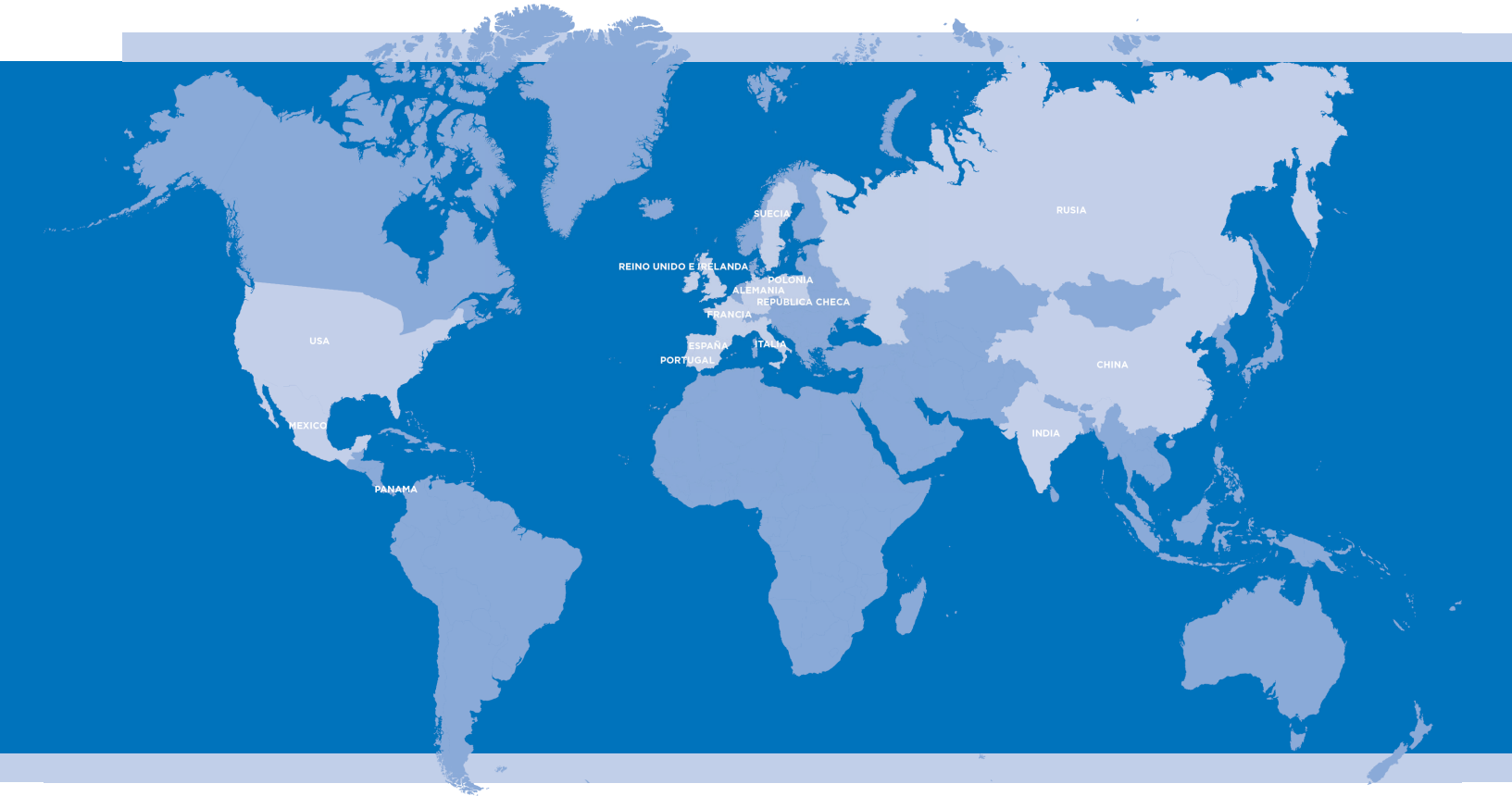
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