

Automatic Central Station (101)

MS Medical (Automatic central station) Specially designed for distribution of medical gases. and ensures Completely safe continuous gas distribution.



Advantages

- This Automatic central station is enable gas stored under High pressure (200 bars) in cylinders to be reduced to (10 bars).
- Supply continuous gas distribution though automatic switching to a reserve source before exhausting the source on duty.

Applications

This Automatic central station are specially manufactured and designed for distribution of medical gases (o₂-N₂O- ...etc....)

Operating principle

Two pressure reducers limited at 10 bars Are Connected to Automatic Change over of the station one bank of Cylinder is open first and the second bank of cylinders after the first opened bank will be on duty and the second will be the reserve source.

On duty source will supply gas as far as the out put pressure is duffisant (ΔP for change over is 2.5 bar) when on duty source is exhausted, out put pressure decreased and the change-over switch on the reserve source and pressure increase again. Technician only exchange empty cylinders.

Specifications

- Flow rateup to 50 m³/h
 - Flow rateup to 100 m³/h
 - Storage capacityfrom 1 to (n) cylinders connected in series
 - Maximum Authorized service pressure230 Bar (Iso DIN 10289)
 - Nominal pressure.....200 Bar at 15° C
 - ΔP for Automatic Change over2.5 bar maximum
- Top

Safety instructions

- The Station include V.S.P valve and the main function of this valve is to isolate the pipeline systems from
- The source of supply (main shut-off valve) to supply the pipe line system with an emergency supply, and to give over pressure protection to the primary network in any event
- The V.S.P valve has relief valve change and maintenance of the outlet possible without interruption of gas distribution .



101-C (V.S.P)

101-B- High Pressure Flexible

Description

- High pressure flexible allow connection between gas cylinders at pressure 200 bar and manifolds of the gas central station .
- The high pressure flexible test pressure 375 bar .



101-B

Oxygen high pressure flexible

- Manufactured with a stainless steel corrugated tube fitted into a plated stainless steel hose with a security cable attached with clamps.
- Length : 1000 mm
- Cylinder side : Hand wheel "F" type (diameter 22.91 x 1.814R)
- Manifold side : female connector 21.7x1.814R brass- polyamide gasket

Nitrous oxide high pressure flexible

Manufactured with Teflon tube fitted into a plaited stainless steel hose with a security cable attached with clamps

- Length : 1000 mm
- Cylinder side : Hand wheel "G" type (Diameter 26x150R male)
- Manifold side : female connector 3/8 GI brass-Polyimide gasket

101-D- Manifolds

Description

Manifolds are made with one or several non return valve blocks specific for each gas and connected with a 5x10 mm degreased copper pipe
The manifolds allow distribution of gases from cylinders or racks to the automatic change over reducer through high pressure flexible.



101-D

Features

- Maximum working pressure: 230 bar (iso/din 10286)
- The (Manifold) have a filter inside.
- The (Manifold) manufactured from brass.
- Oxygen : intake connector 21.7x1.814 male with gasket
- nitrous oxide : intake connector "3/8"R male with gasket.

101-E- High pressure valve

- Manufactured from brass
- Maximum work pressure: 230 bar (iso/din /10286)
- Hand wheel : aluminum
- Welding connectors : 10 mm



101-E