

HIGH PRESSURE SUPPLY SYSTEM

Reducer-Changeover and Back-up systems

Pressure reduction and changeover system for medical gas supply network from cylinders or bundles. Pressure reduction from 200 bar to 8.5 bar.



Reducer-Changeover 80 m³/h



Performance

- Automatic changeover without manual resetting.
- Flow rate up to 80 m³/h.

High degree of safety

Reduced risk of adiabatic compression.

Does not contain substances likely to give off toxic gases in case of fire.

Optional lead-sealable protection cover.

Composition

The **REDUCER-CHANGEOVER** sub-assembly consists of the following components:

- 2 filtering purge valves,
- 2 HP reducers with built-in safety valves,
- 1 automatic changeover with pressure gauge,
- 1 MP reducer,
- 1 non-return valve.

The **BACK-UP** sub-assembly consists of the following components:

- 1 filtering purge valve,
- 1 HP reducer with pressure gauge,
- 1 MP pressure gauge,
- 1 MP reducer,
- 1 pressure gauge for indicating output pressure,
- 1 non-return valve,
- 1 quarter turn sectional valve.

The **filtering purge valve** protects the system against impurities with the help of a sinterbronze filter. The valve is used to bleed the manifold before changing cylinders. It is manually operated by means of a handwheel.

The **HP pressure reducer** enables gas pressure reduction from 200 bar to 14 bar. The reducer is equipped with a piston specially designed for gas supply to HP Centrals and fully complies with 738-3 norms thanks to its Taema patented valve.

The **automatic changeover** system enables alternating gas supply from two manifolds. The pneumatic changeover system is fully automatic and functions on the basis of a pressure difference.

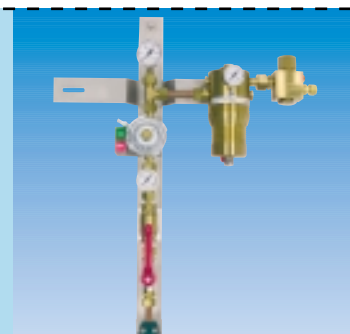
The **MP reducer** brings down gas pressure from 14 bar to the network pressure level (preset at 8.5 bar at the **Reducer-Changeover** system and at 7 bar at the **Back-up** system). The MP reducer uses a piston with a simplified design that provides stable pressure level for the entire gas flow range.

Maintenance

HP reducer cartridge and MP reducer module may be changed every 5 years.



Reducer-Changeover with cover



Back-up system 80 m³/h



HP reducer for separate use



Roll OXYGEN

Features

Main gases available: O₂, Air, N₂O, CO₂, N₂, according to pigtailed connections used.

Gas supply pressure: up to 200 bar.

Reducer-Changeover system output pressure: 8.5 bar (adjustable from 5 to 9 bar).

Back-up system output pressure: 7 bar (adjustable from 5 to 9 bar).

Max. flow rate: 80 m³/h (at 8.5 bar).

Inlet connector: 1/4" gas coupling HP type for 5 x 10 copper tube.

Output nozzle: 14 mm Ø copper tube.

Reducer-Changeover system weight: 22 kg.

Back-up system system weight: 15 kg.

Constituent materials: brass, Zamack.

Reducer-Changeover system dimensions: 200 mm (W) x 600 mm (L) x 630 mm (H).

Back-up system dimensions: 200 mm (W) x 500 mm (L) x 630 mm (H).

Wall fitting: 2 Ø 8 drillings with an interdistance of 500 mm.

CE 0120 class IIb.

Maintenance

Functional verification and filter change once every year.

Preventive maintenance every 5 years.

references

References	Designation
AD071900	REDUCER-CHANGEOVER SYSTEM 80 m ³ /h
AD072000	BACK-UP SYSTEM 80 m ³ /h

accessories

Reference	Designation
AD071000	HP Supply System protection cover for Reducer-Changeover or Back-up system
YA011100	"Neutral" compact sealed
YD021100	5 x 10 HP copper tube, 2 metres bar
AF013200	Analogic pressure sensor 0-250 bar 1/4" gaz 4-20 mA (x 6)
AF003200	Analogic pressure sensor 0-250 bar 1/4" gaz 4-20 mA (x 1)
YF009000	Adhesive roll Oxygen (36 m)
CE061100	HP reducer 0-14 bar with filter for separate use