

SWISS optio change-over unit

change-over unit



The **change-over unit** at a glance:

- for an uninterrupted gas supply from liquid gas tank and single cylinders or cylinder racks
- reduces the pressure of the various gas sources to the required pipeline pressure
- the electronic control monitors the gas pressure and, if necessary, switches between the gas sources
- forwarding of the alarm to secondary warning device by potential-free contacts or bus system
- feed for manually connectable emergency supply
- very easy to service due to the in-built shut-off and non-return valves

The **change-over unit** ensures the continuous supply of the gas network with medical gases from three independent sources of supply, i.e. from liquid gas tank and on both sides from individual cylinders, cylinder racks or batteries. The **change-over unit** which operates with an electronic control, regulates the supply of the gas supply system and reduces the pressure of the liquid gas tank and of the individual cylinders and/or cylinder batteries to the required network pressure. The **change-over unit** has a safety valve and an inlet for an emergency supply. Upon request, the **change-over unit** is also available with only two supply sources (i.e. without liquid gas tank infeed).

The pneumatic part and the electronic control of the **change-over unit** are mounted in a lockable switch cabinet. The operating conditions and the prevalent pressures are shown on the display of the closed cabinet. The messages of the operating status can be forwarded via potential-free contacts to a control centre.

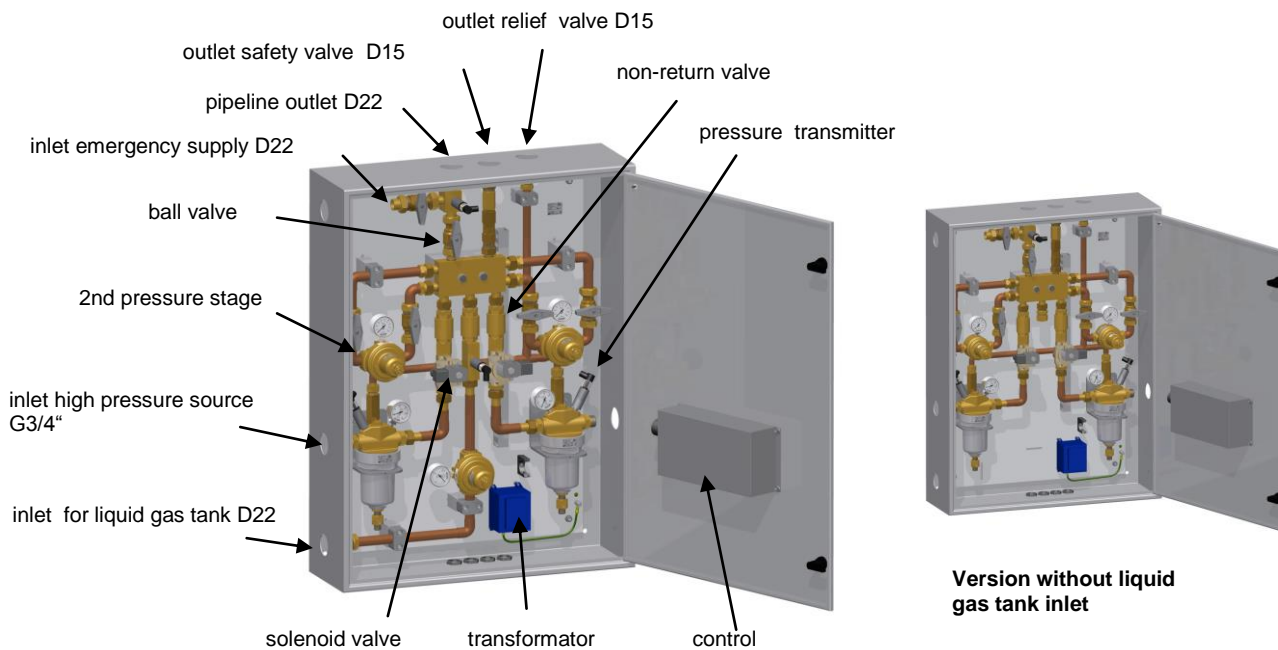
The pressure is regulated in two stages. The two low-pressure regulators are connected in parallel, i.e. one acts as a reserve. When the pressure of the liquid gas tank is higher than 10 bar, the version of the changeover unit with additional tank pressure regulator must be chosen.

The **change-over unit** is certified according EN ISO 7396-1. The integrated pressure regulators are certified according EN ISO 10524-2 (low pressure regulators only ignition test). CE marking according to Guideline for Medical Products 93/42/EEC.

Technical data :

Classification	equipment class according to CE Guideline 93/42 EEC annex IX, class II b
UMDNS-Code	18-046 (change-over unit) / 15-824 (alarm system)
Inlet pressure	200 bar
Outlet pressure	1 st stage max. 10 bar, pipeline pressure 4-5 bar (option 7-10 bar for AIR and N ₂)
Flow	60 Nm ³ /h / 100 Nm ³ /h (P _{Inlet} = 21 bar, P _{Medium} = 10 bar, P _{pipeline} = 5 bar, AIR)
Gas	AIR, O ₂ , CO ₂ , N ₂ O, N ₂
Supply voltage	230 V 50 Hz AC (integrated power supply) / internal voltage : 24 V AC
Electronic outlets	potential-free contacts (one contact per gas source), for secondary warning device bus system CMS K-DATA with Interface for RS 232 (optional)
Inlet	liquid gas tank : soldering fitting inner- Ø22 mm, cylinder connection : G 3/4", emergency supply feeding : soldering fitting inner-Ø22 mm
Outlet	soldering fitting inner-Ø22 mm
Material	brass, copper, stainless steel, aluminium, cabinet : sheet steel powder coated RAL 7035
Sealing material	POM, EPM, NBR, PA 6, CR, PPS, PEI, PTFE, copper
Operating temperature	+ 10° to + 40°C
Dimensions	B x H x D : 700 x 930 x 225 mm
Weight	66 kg

Specification and model variants GM8300



Necessary information when ordering :

Gas	AIR, O ₂ , CO ₂ , N ₂ O, N ₂
Flow	60 Nm ³ /h or 100 Nm ³ /h
Change-over pressure	max.10 bar
Options	- version without connection for liquid gas tank - including pressure regulator on connection for liquid tank

Subject to changes. All trademarks are property of Gloor Bros Ltd.

GLOOR

GLOOR BROS LTD
Kirchbergstrasse 111
3401 BURGDORF
SWITZERLAND

www.gloor.ch
gloor@gloor.ch
Tel.: +41 34 427 47 47
Fax.: +41 34 423 15 46