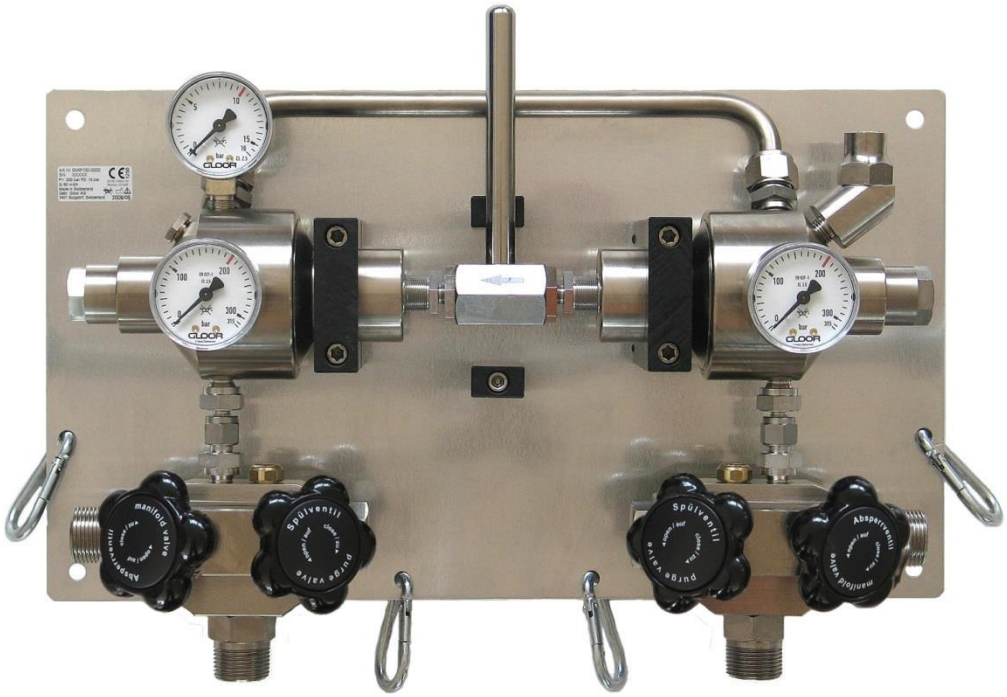
Safety through Precision

# SWISS optio change-over

change-over



## The change-over station at a glance :

- for an uninterrupted gas supply from single cylinders or cylinder racks
- for the connection for up to four single cylinders or two racks of cylinders
- with integrated purging valves
- change-over pressure up to 10 bar (permanently preset)
- as an option, with emergency supply feeding and / or with external alarm
- additional option : with low pressure regulator as second pressure stage and emergency supply feeding completely mounted on panel

The automatic **change-over station** for medical gases guarantees for an uninterrupted gas supply from two cylinder racks or from two to four single cylinders (1 or 2 cylinders each side).

The **change-over station** consists of two high-pressure shut-off blocks, two high pressure reductions valves that are connected on the low-pressure side with indication of the respective cylinder pressure and a relief valve. All components are mounted on an aluminium plate.

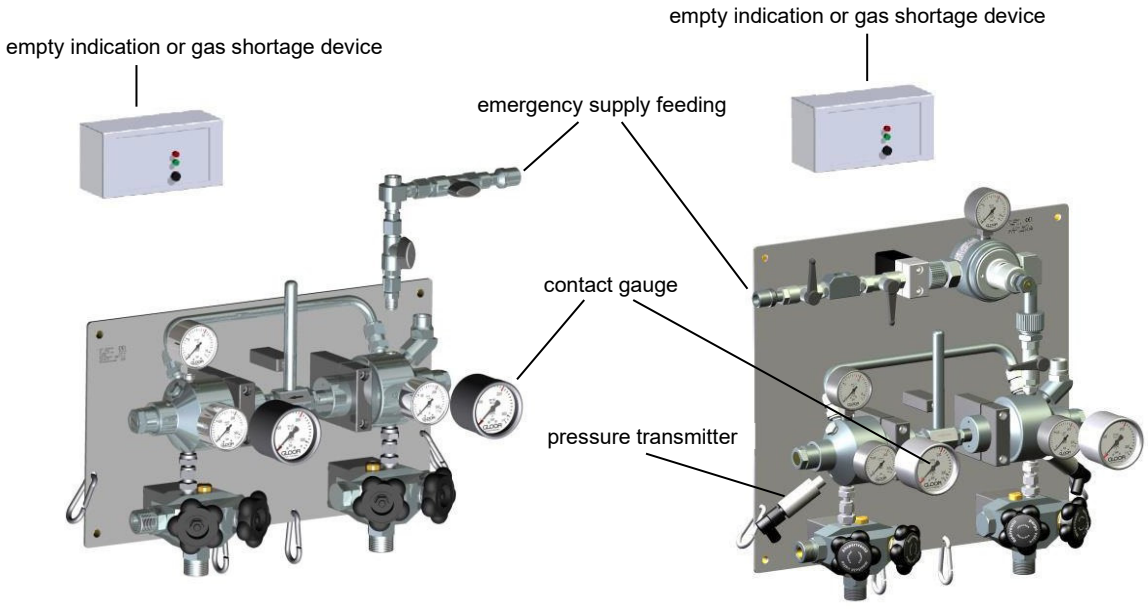
The high pressure shut-off blocks have two connection options (lateral and from below) and have integrated purging valves. The high pressure connections are fitted with sinter filters and with back-flow valves.

The **change-over** works on the principle of differential pressure. If the cylinder pressure on one side falls below the set supply pressure, the system will be supplied from the other side through the defined differential pressure. The **change-over** is switched ready for operation again by operating the change-over lever, and the cylinders on the empty side must be replaced.
The **change-over stations** meet the requirements of EN ISO 7291 and EN ISO 10297. The integrated pressure regulators meet the requirements of EN ISO 10542-2. 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 (nomenclature for medical products) |
| Inlet pressure | 200 bar |
| Outlet pressure | 3 – 10 bar (permanently preset at the factory on request of the customer) |
| Flow | GM 8100 : 80 $Nm^3/h$ / GX10038 : 40 $Nm^3/h$ |
| Gas | AIR, $O_2$, $CO_2$, $N_2O$, He, Xe, mixtures of test gases |
| Inlet | 3/4“ outer thread, lateral and from below (if the second inlet is not required, it is closed off with a sealing plug) |
| Outlet | vertically upwards, G1/4“ inner thread flat seal |
| Material | brass nickel plated, stainless steel, NBR diaphragm |
| Sealing material | PA6.6, EPDM, POM, PUR, silicone |
| Operating temperature | -20° up to + 60°C |
| Dimensions | W x H x D : 44 x 36 x 15.5 cm |
| Weight | 14.5 kg |

## Model variants GM81xx / GX10038 :




**GM8100**

**GX10038**

panel with second pressure stage and emergency supply feeding

## Necessary information when ordering :

| | |
|---|---|
| Gas | AIR, $O_2$, $CO_2$, $N_2O$, He, Xe, mixtures of test gases |
| Change-over pressure | 3 – 10 bar |
| Inlet | two or four inlets open |
| Options | - with contact gauges and empty indication<br>- with pressure transmitters and gas shortage device<br>- with emergency supply feeding<br>- with second pressure stage and emergency supply feeding on panel |





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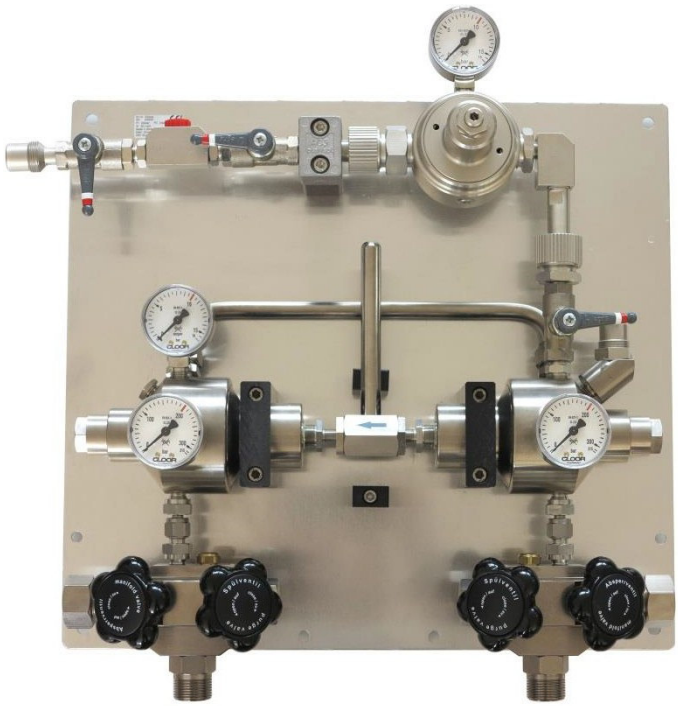
# SWISS optio change-over with second pressure stage and emergency supply feeding on panel



**GX 10038**

- with pipeline regulator as second pressure stage for very stable down-stream pressure
- pipeline pressure adjustable between 3 to 10 bar. Can only be re-adjusted by help of a tool and is secured by means of a counter nut to prevent any unintended or unauthorised adjustment of the pressure
- with emergency supply feeding with NIST connection for emergencies or for repair/service of the change-over
- as option with contact gauge and empty indication or with pressure transmitter and gas shortage device

## Technical data :

The general information and the technical data of the change-over you find above. Following you will only find the data that is deviating from the information given there.

| | |
|---|---|
| Flow rate | with 10 bar secondary pressure = 40 $Nm^3/h$ (after 2nd pressure stage) |
| Dimensions | W x H x D : 48 x 48 x 17.5. cm |
| Weight | 18,6 kg |





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