DATASHEET

rev. 01 - 29/11/2022

Mini control unit for 2 cylinders with 1st and 2nd stage reducer with pressure gauge

21000460 - 21000470 - 21000465
21000475

DESCRIPTION

the mini control unit is a product designed for the construction of a multi-cylinder LPG supply system, already equipped with a pressure regulator, to meet the needs of most domestic gas distribution systems.
The cocks are equipped with a non-return valve that prevents gas from being transferred from the full cylinder in operation to the cylinder already in use (empty) if the cock is not closed.
(When commissioning a new cylinder, close the tap of the used cylinder and the corresponding tap on the mini-control unit).

TECHNICAL SPECIFICATIONS:

- Includes wall bracket
- Coupling for 2 cylinders
- Reducer OTZ hp410
- Regulator 4 or 10 kg/h
- Flow rate of the regulator: 1st stage 12 kg/h - 2nd stage 10 kg/h
- Calibration of the regulator: 1st stage 1.5 bar - 2nd stage 30 mbar (adjustment possibility of the 2nd stage from 20 to 50 mbar)
- Feed pressure: 2.5 ÷ 11 bar (Maximum permissible pressure 16 bar)
- Operating temperature: -20°C÷ +50°C
- Inlet (cocks) : Male thread W 20x1/14" LH
- Output (regulator): Female thread G 1/2"

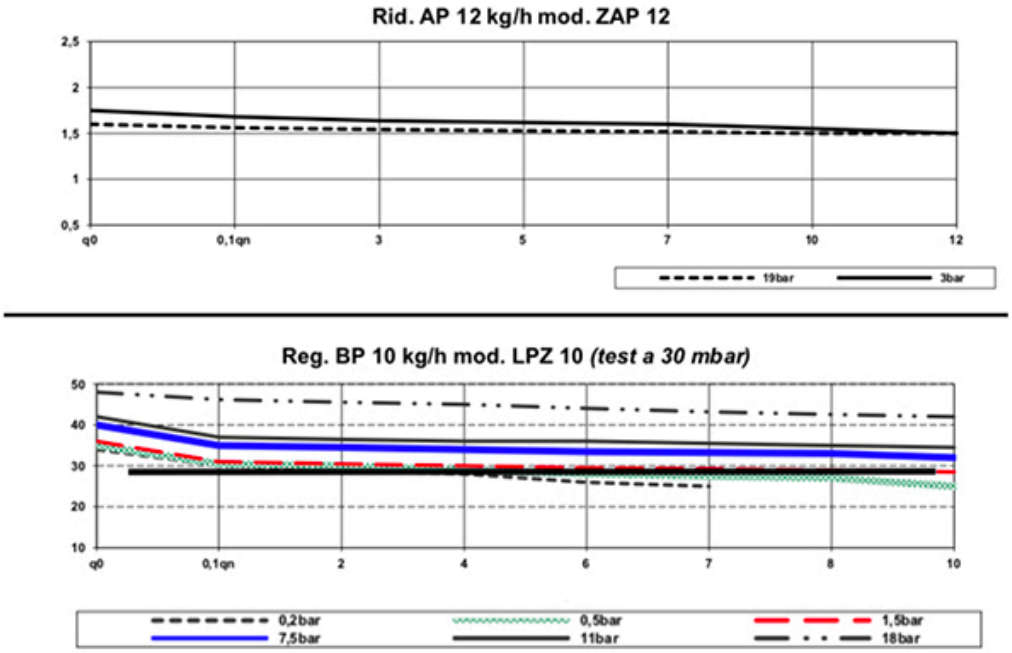
REGULATOR MATERIALS

- Bodies: Stage 1 and stage 2 Zinc alloy (Zama) protected by galvanising (yellow Zinc plating)
- Lids in Zinc alloy (Zama): 1 stage and 2 stage protected by epoxy powder coating (yellow colour)
- Other VITON rubber components according to EN 549

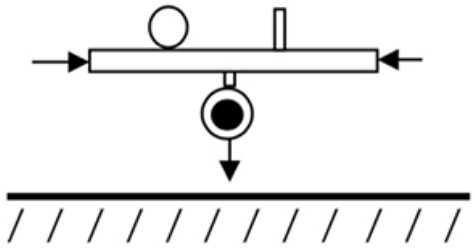
MINI CONTROL UNIT MATERIALS

- Unit, knobs, plungers, bushings and rivets in brass (Yellow Zinc plating)
- Spheres in steel
- NBR O-rings according to EN 549
- Sealing pads in Teflon

PRESSURE DIAGRAM



INSTRUCTIONS FOR USE AND ASSEMBLY



In order to ensure proper operation and maintain the longevity of the Regulator, it is recommended to install it with the outlet turned downwards.
The connection between the cylinder cocks and the mini control unit cocks has to be made through the use of suitable flexible hoses.
Before connecting flexible hoses to the system, always check their expiry date and their good condition.
Check that the flexible hose connections are fitted with the relevant gaskets and that they are in good condition (to be replaced at every cylinder replacement).
During assembly, make sure that the flexible hoses do not form any kinks or abnormal bends that could damage their integrity (hold the hoses in place with the hose key during this intervention).
For the connection between the Regulator and Gas-fired equipment, suitable copper piping is recommended. Any crushing or pinching of the tubing will reduce the Gas flow.

When the installation is complete, check for Gas leakage from the joining points. Use only special products (spray foam) or soapy water.
ATTENTION! The use of flames is strictly prohibited.
Do not use the equipment until any gas leaks have been eliminated!
The 1st stage reducer stabilises the 2nd stage regulator feed pressure. In production, the 2nd stage regulator is calibrated at a pressure of 30 mbar at a nominal flow rate of 10 kg/h.
If necessary, the outlet pressure can be adjusted by operating the internal adjustment ring, after removing the protective cap.
To increase the output pressure, screw the ring nut clockwise; to decrease the pressure, unscrew counter-clockwise.
Replace the protective cap when the calibration is completed.
The installation of cylinders and mini control units in enclosed spaces is prohibited!

NOTES

Outlet pressures can be customised on request
Do not use the regulator for pressures other than those indicated.
The declared calibration and sealing are checked in production.

ITEMS

CODE	DESCRIPTION
21000460	MINI CONTROL UNIT FOR 2 CYLINDERS 4KG/H WITH PRESSURE GAUGE
21000470	MINI CONTROL UNIT FOR 2 CYLINDERS 4KG/H WITH PRESSURE GAUGE-HOSES
21000465	
21000475	