

Manufacturer manual - MPC pressure regulator

Thank you for buying the MPC pressure regulator !

The M3S MPC pressure regulator is a fixed medium pressure regulator and has specifically been developed for the mCCR Triton. The MP outputs are perfectly parallel so the hoses supplying the M3S valve will be protected.

The MPC has an integrated over pressure valve weighted at 20 bar. The fixed MP is adjustable between 10 to 15 bar, by the user without any/necessary dismantling

The MPC passed the adiabatic compression tests in 232 and 300 bar without any restriction.

Contents of the box:

- 1 MPC pressure regulator manufacturer origin/settings at 11.5—12bar



Beware :

- The MPC pressure regulator is compatible part with pure oxygen and should be handled as such: cleaned and washed hands, cleaned tools, ventilated environment with no dust.
- Do not dismantle the over pressure valve.
- The MPC pressure regulator is not suited for open circuit diving and cannot be connected to a second stage diving at all.
- This manual is only suited for an 100% conformed gas line sold by M3S. Any other part not coming from M3S will alterate the gas line functions and will unable the assembly instructions herewith.
- Any grease, even compatible with oxygen, is forbidden while setting up the MPC pressure regulator.



Pre-handlings :

Link the original gas line together with its DS4 to the Triton oxygen bottle, inflated at least 150 bar.

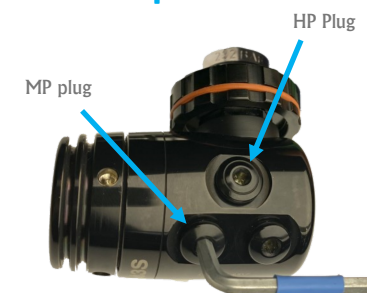
Put under pression the gas line (slowly open and close the oxygen tap).

Measure how long it takes for the pression to go down from 150 to 100 bar using the Triton SPG O2. If the time is between 35 to 40 seconds, you can then set up the MPC pressure regulator. If not, please contact M3S.

MPC pressure regulator set up :



Dismantle the MP hoses (x2) and HP hoses (x1) using a 14 mm flat key, by the pressure regulator side.



Pull out the MP plugs (x2) and the HP plug (x1) from the MPC using a 4 mm hexagonal key. Watch out which side from the above photo. The over pressure valve must be at the opposite side of the hoses.

Reassemble the MP hoses (x2) and the HP hoses (x1) using a 14 mm flat key, by the pressure regulator. Tightening torque : 5 N.m.

Over pressure valve



Flow check up :

Once the over pressure valve is properly set up, start again the step mentioned above in the pre-handlings. The time must be superior or equal to 35 seconds, while remaining under the one measured with your DS4. If not, please contact us.