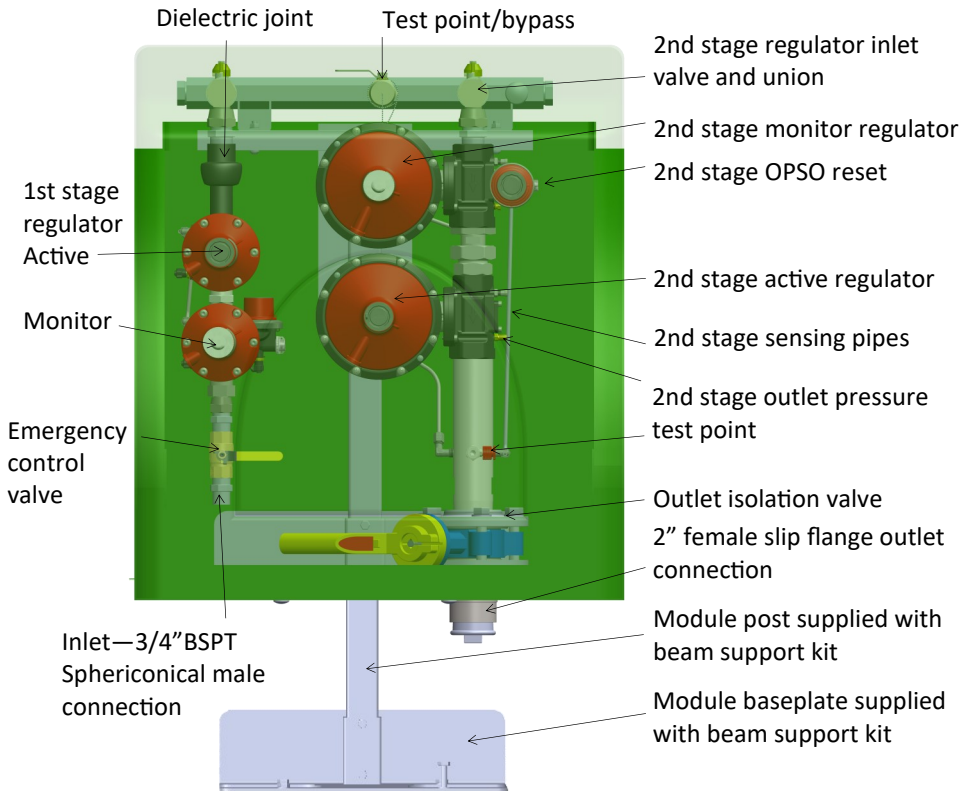




CLESSE PART No.
UUTS2ST150KG

UNDERGROUND MODULE 1ST & 2ND
STAGE 150kg/h (2074kW/h)

SUPPLIED BY
CLESSE
(UK) LIMITED



Technical Information	
1st Stage Regulator	AP2 AM OPSO
2nd Stage Regulator	BP 2402 A/M OPSO
Capacity kg/h (kW)	150kg/h (2074kW/h)
1st Stage Inlet Pressure	2.5—16bar (operating)
1st Stage Outlet Pressure	1.2 bar ACTIVE 1.75 bar MONITOR
2nd Stage Outlet Pressure ACTIVE / MONITOR	75 / 90 mbar
1st Stage OPSO Set Pressure	Standard setting 2.5bar (2-4)
2nd Stage OPSO Set Pressure	140 mbar
Limited Relief Valve (PRV)	115 mbar
Inlet connection	3/4" BSPTM Spherical
Outlet connection	Rc 2" f ISO/7(BSP)

First Stage

The principle of operation of the AP2 Active Monitor regulator is described in AP2 regulator instruction (006880MD Calor No. 102791). Please obtain a copy of these instructions prior to commencing any work on this regulator. If you need to replace the regulator, use the hydraulic connection to remove the regulator and request replacement.

Do not replace the special hydraulic connection from the inlet of this regulator. If you need different style / size connection, please contact Clesse UK for solution. To maintain gas supply use, the first stage rider facility located at the top manifold, between the two 2nd stage regulators. Use appropriate regulator set to 1.2 bar outlet pressure. Do not connect tank pressure directly to this manifold, as it will result in damaging 2nd stage regulators.

QUICK REFERENCE FOR CHECKING NORMAL OPERATION

Normal Operation

TP 1 and 2 show the same pressure (tank pressure).

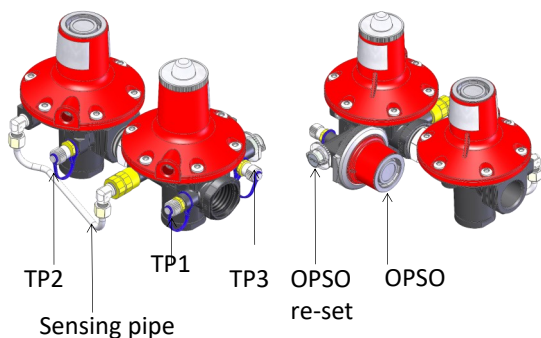
Incorrect operation

TP 2 and 3 show the same pressure (elevated regulated pressure) and the red indicator shows fully in Monitor (M) regulator window.

If the red indicator is fully visible, the regulator needs to be checked by a qualified gas engineer or the complete unit replaced.

This regulator needs to be periodically inspected.

Use the correct servicing kit **UUA/MOPSOTSKIT** to check the correct functioning of Active Monitor regulator and verify settings of OPSO.



The Second Stage regulator used on this module is BP24FC A/M OPSO. The principle and operation of this Active Monitor regulator is described in BP24FC A/M regulator instruction (006896CM). Please obtain a copy of these instructions prior to commencing any work on this regulator. This Module has been pre-set at the factory and does not need adjustment.

Only adjust these regulators if you have received training from the manufacturer and are competent.

If you need specific information, please refer directly to the regulator instruction or contact Clesse UK.

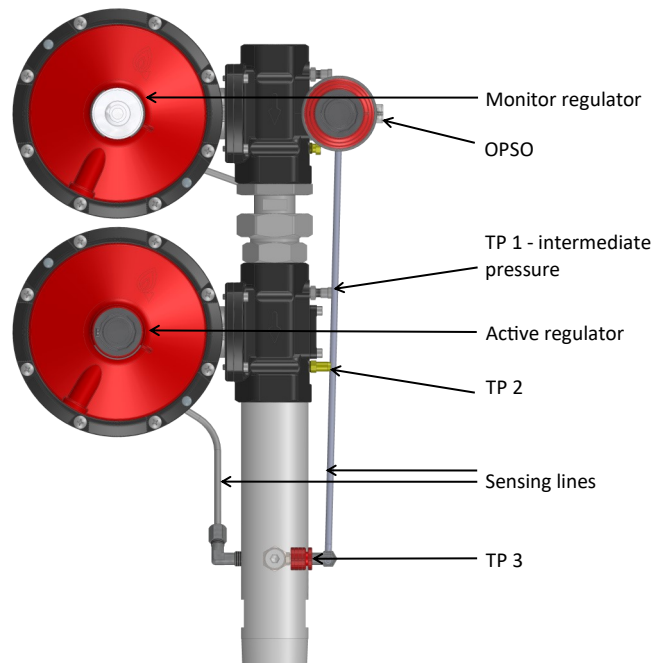
QUICK REFERENCE FOR CHECKING NORMAL OPERATION

Normal Operation

TP 1 shows intermediate pressure (0.65 - 2bar), TP 2 and 3 show outlet pressure in range 60 - 80 mbar.

Incorrect operation

TP 1, 2, and 3 show the same pressure (elevated regulated pressure) and the red indicator shows fully in Monitor (M) regulator window.



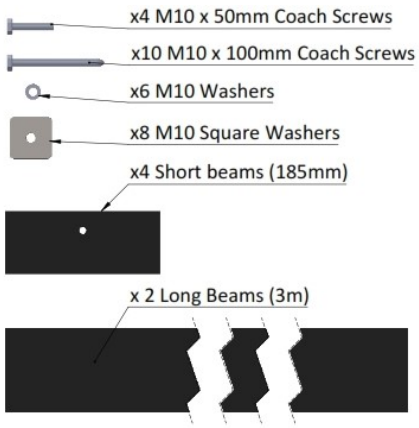


Fig 1

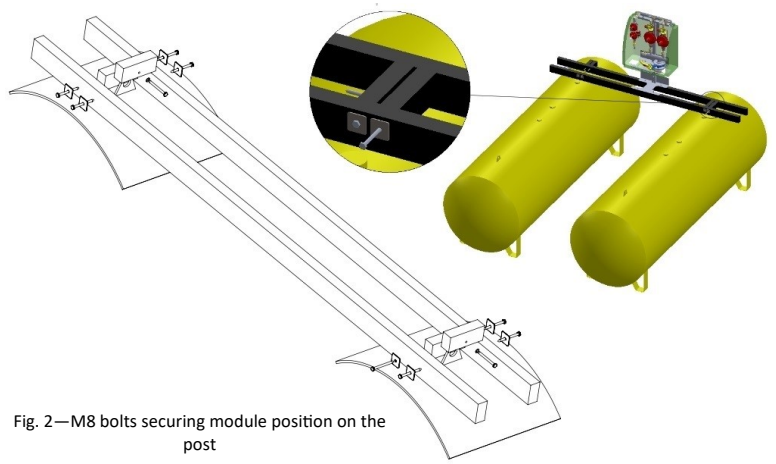


Fig. 2—M8 bolts securing module position on the post

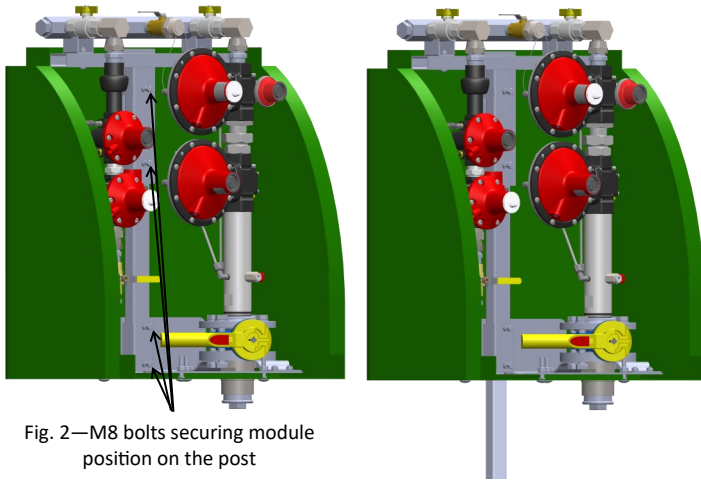


Fig. 2—M8 bolts securing module position on the post

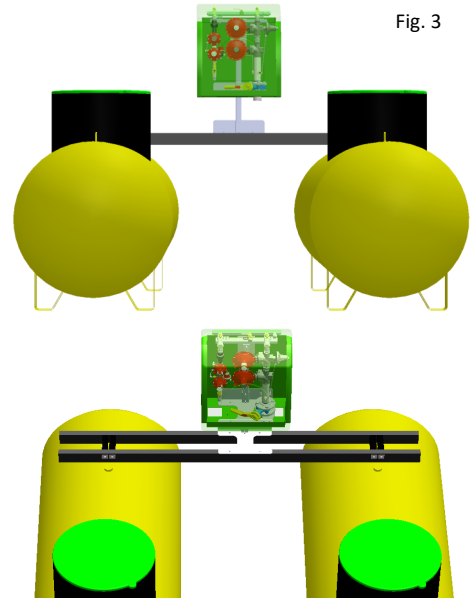


Fig. 3

Assembly Instruction:

1. Assemble the underground module support kit as shown above (Fig. 1). It is advisable to drill a pilot hole prior to bolting the plastic beams together.
2. Gently lay the module on its' back and loosen the 4 x M8 bolts that hold the module to the support post (Fig.2). Replace the short transportation post with the longer support post supplied with support kit (part No. xxx). Ensure that end of the support post is 325mm from bottom of the GC2 kiosk.
3. Tighten the M8 bolts with moderate strength (don't overtight at is will result in breaking off the captive nuts).
4. Lift the whole module (2 man lift) and insert support post in dedicated slot on the baseplate .
5. The completed module and baseplate should then be located on the beams in the desired position and bolted to the plastic beams with the 10mm bolts supplied. You will need to drill an 8mm pilot hole for these.
6. Make sure that bottom of the kiosk is at the same height as the top of the tank turrets Fig 3. If necessary adjust the height.
7. Assemble and commission the module in accordance with the module instructions.