CLESSE PART No. 051085YC	1495BB (A50) OPSO 37mb 600kg/h 8297kW	SUPPLIED BY CLESSE (UK) LIMITED

02/2023



**Regulator supplied without flanges or gaskets*

Technical Information	
Regulator	1495BB OPSO
Capacity kg/h (kW)	600 (8297)
Set Pressure	37 mbar (30-70)
Max inlet Pressure	5 bar
Relief Valve	N/A
OPSO Set Pressure	Standard setting 140mbar (60-160)
UPSO Set Pressure	N/A
Design Standard	Equipment Directive 97/23/CE
Inlet connection	Flange DN50 PN40
Outlet connection	Flange DN50 PN40

Dimensions & Packaging	
L1	580mm
L2	370mm
L3	210mm
L4	254mm
D1	275mm
Seat diameter	36mm
Weight	26kg
Packaging	Card board box secured on a pallet

Assembly Instruction

The unit comes pre-assembled and pre-set from Clesse UK. Due to transportation, the compression joints may become loose and should be leak tested once installed. Testing and pressure checking should be performed only by a trained engineer using a Clesse module test kit. A high-pressure gas feed is required upstream of the module with a 1/4" valve test point.

1. **Check the contents** of the box, ensuring that the regulator meets the specification (pressure and capacity of the installation and all items are present and not damaged.

2. The unit comes with flanged connections both the inlet and outlet. **Fit suitable gaskets** to the Alpha 50 module. Please note that the module is heavy, this is a two person lift and needs to be supported by at least two suitable pipe supports.

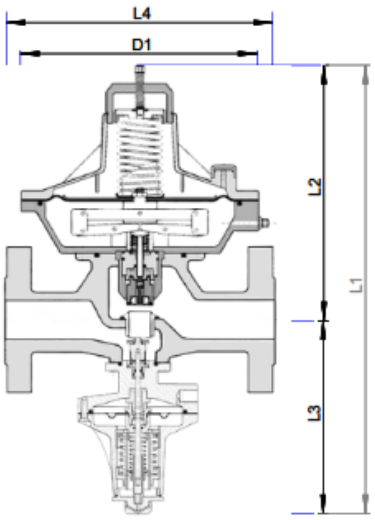
3. **Fit an inlet and outlet valve** to the outlet flange to make the commissioning process easier. **Ensure correct vent and breather position**: either horizontal or pointing downwards to prevent water ingress or build-up of condensation inside regulator.

4. **Install the module into the pipework** and **check for soundness and all of the pre-set pressure settings,** using the Clesse Test kit.

5. **Fully commission assembly, checking operating pressures only when the appliances are available and connected. Otherwise, check for soundness and lockup pressure.** The regulator is pre-set at the factory and does not normally need adjustment. If operating pressure adjustment is required, see overleaf. 1st stage regulators should be adjusted dynamically, taking into consideration inlet pressures. **Once all checks have been carried and the correct pressures are set, perform a gas tightness test to the requirements of UKLPG COP22 or BS 5482:1 – 2005.**

6. Use Leak Detection Fluid on the test point and OPSO flange, checking for any leakage and wiping off any remaining residues. If not using LPG for test media **purge the assembly fully before leaving site.**

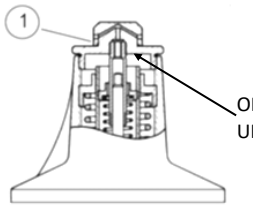
7. Please note, this regulator requires downstream pressure sensing. If you haven't installed this regulator before, please contact Clesse UK.



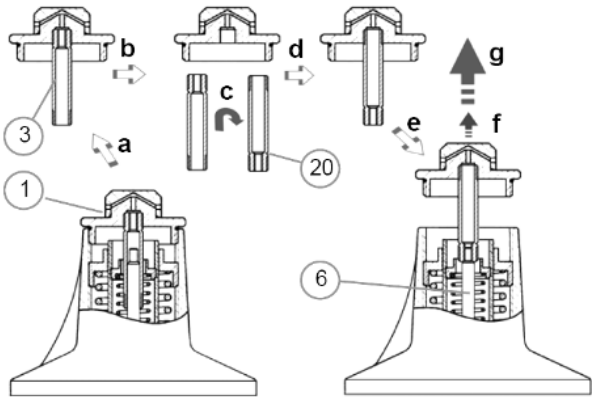
*Operating Conditions	Settings
Pressure Range	37mbar (30-70)
Inlet Operating Pressure to achieve declared capacity	0.7 - 4bar
Operating temperature	-20°C to 45°C
OPSO Sensing Method	External
Regulator Pressure sensing	External
Lockup Pressure	<85mbar

ANY REGULATOR ADJUSTMENTS AND RESET PROCEDURES SHOULD BE CARRIED OUT BY A SUITABLY QUALIFIED GAS ENGINEER

Over Pressure & Under Pressure Shut Off Valve Reset



OPSO—outer adjustment ring
UPSO— inner slotted adjuster

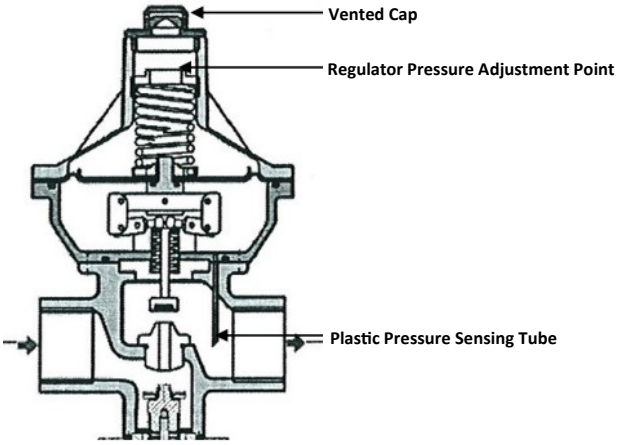


Fine adjustment of the OPSO setting is preformed beneath the OPSO vented cap 1 - both UPSO and OPSO are adjusted here. The outer ring adjustment is OPSO and the inner slotted adjuster is UPSO. Do not set pressures above the maximum limit of OPSO spring and take due care to the constraints of downstream pipework and equipment.

Before any reset procedure, ensure that all down stream pipework has been checked and all appliances are turned off. Where possible, reset OPSO with the inlet pressure valve off.

1. Unscrew the cap (1) and reset spindle (3) unit.
2. Unscrew the reset spindle (3) from the cap (1).
3. Turn the reset spindle (3) 180 degrees.
4. Carefully hand-tighten the reset spindle holding groove (20) into the cap (1) without over-tightening it.
5. Fit this onto the OPSO actuation shaft (6), without fully tightening it.
6. Pull out the cap (1) by a short distance and keep it pulled for a brief time to balance pressure across the regulator.
7. Pull slightly harder to lock the mechanism, stop after a locking noise is heard.
8. Reposition the cap (1) and reset spindle (3) to their original position (reverse of step 1.).
9. Secure the regulator cap.

Pressure Adjustment



Fine adjustment of the regulator is performed beneath the main diaphragm vented cap (a 27mm socket is required). Do not set the pressure above the maximum limit of the regulator spring and take due care to the constraints of downstream pipework equipment.