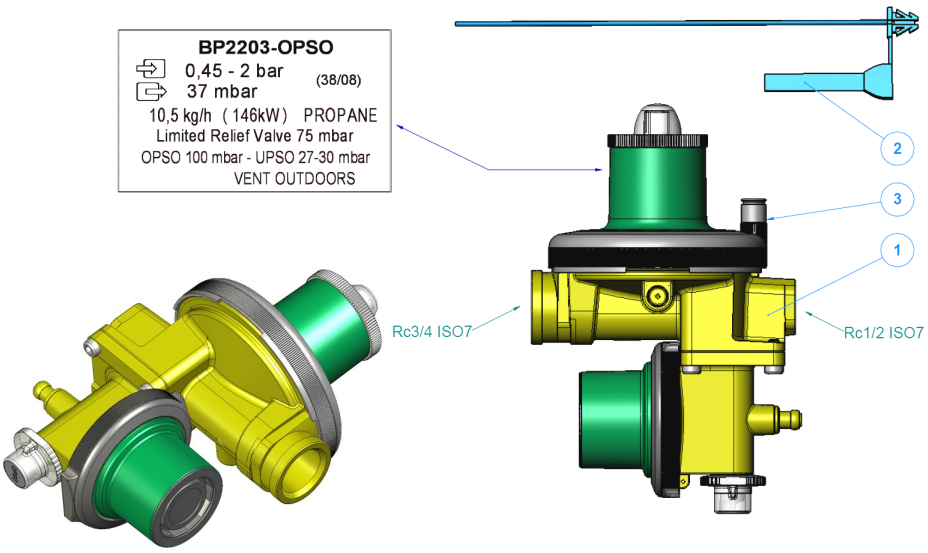
CLESSE PART No. 006827AA	2nd STAGE REGULATOR 37mbar 146kW	SUPPLIED BY CLESSE (UK) LIMITED



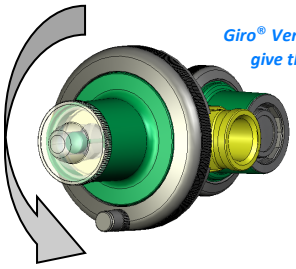
Technical Information	
Regulator	BP2203 GIRO® VENT
Capacity kg/h (kW)	10.5 (146)
Set Pressure	37 mbar
Inlet Pressure(2nd Stage)	0.45-2 bar
Limited relief Valve	75 mbar
OPSO Set Pressure	100 mbar
UPSO Pressure	27-30 mbar
Design Standard	EN16129
Inlet connection	Rc1/2F ISO/7 (BSP)
Outlet connection	Rc3/4F ISO/7 (BSP)

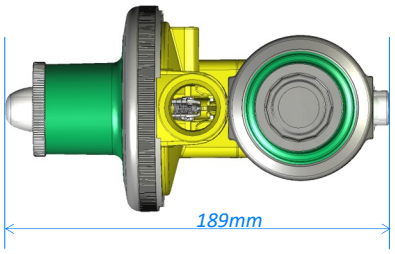
Item	Qty	Description
1	1	BP2202 U/OPSO Giro 37mb 2nd Stage Regulator
2	1	OPSO sealing wire
3	1	Giro® Vent Cover

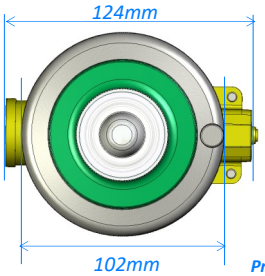
Assembly Instruction

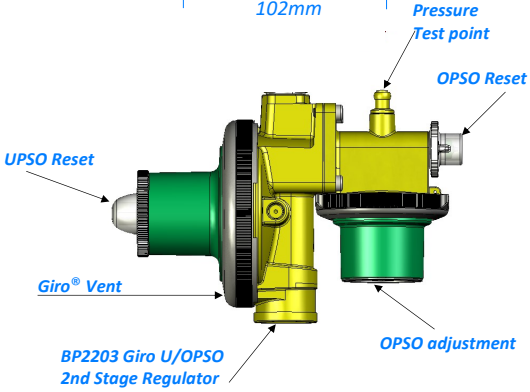
1. Check the contents of the box, ensuring that the regulator meets the pressure and capacity of the installation and all items are present and not damaged.
2. This regulator requires 1st Stage pressure reduction down to 4 bar or below. Due to liquefaction at low ambient temperatures, Clesse recommends the use of inlet pressure of 2 bars or below, therefore the regulator has been marked to show this.
3. If the regulator is to be fitted as a wall mounted assembly, a wall mounting bracket can be fitted to the regulator (Calor part No.26178 - Diagram overleaf). Remove only two screws only from the opposing sides of OPSO body as shown, using a Allen key 4mm. Fit the bracket as shown to the regulator (note the bracket is specially angled to allow close fitting to wall), replace, and retighten screws.
4. When installed, ensure that the second stage regulator diaphragm is in the vertical position. Rotate the movable GIRO® vent to the Bottom Dead Centre position. For convenience whilst assembling, this can be removed and refitted at the end of installation
5. Before fitting regulator to wall end PE kit, ensure that the pipe is clear of any debris. Use a 1/2" M/F filter Clesse part No. 004401 if there is any doubt, as debris will cause regulator failure.
6. Perform a gas tightness test to the requirements of UKLPG COP22 or BS 5482:1 – 2005 to suit the installation. There is a test point on the regulator, only use a small 3.5mm flat bladed screw driver and avoid over tightening when finished.
7. Fully commission assembly, checking operating pressures only when the appliances are available and connected. Otherwise, check for soundness and lockup before leaving. The regulator is pre-set at the factory and does not normally need adjustment when used. If operating pressure adjustment is required, see overleaf.
8. Use Leak Detection Fluid on the test point and OPSO flange (if fitting the wall bracket), checking for any leakage and wiping off any remaining residues. If not using LPG for test media, purge the assembly fully before leaving site.
9. Adjustment of UPSO and Limited Relief Valve is not possible, OPSO setting is pre-set and should not require adjustment.
10. Fit the OPSO seal, passing the wire through the regulator hole in the OPSO body and clear plastic OPSO cap.

Regulators manufactured to EN16129 standards are now set to give OPSO setting typically between 90 and 110mb on a 37mb regulator, with he relief valve system operating at 75mb. This not only satisfies statutory requirements in the UK, but offers greater resistance to inconvenient OPSO tripping found on regulators designed to BS3016.





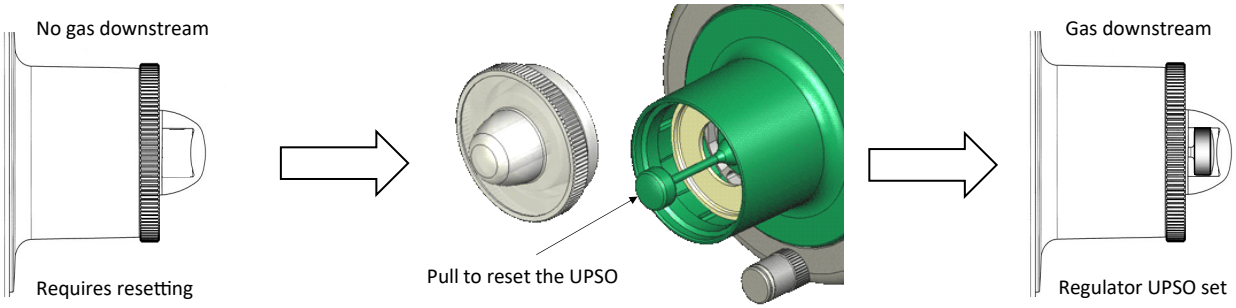




Operating Conditions	Settings
Lock-up Pressure	50mb or less
Operating pressure	37mb +/- 5mb
Operating temperature	-20°C to 45°C
Max Operating Inlet Pressure	4bar

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

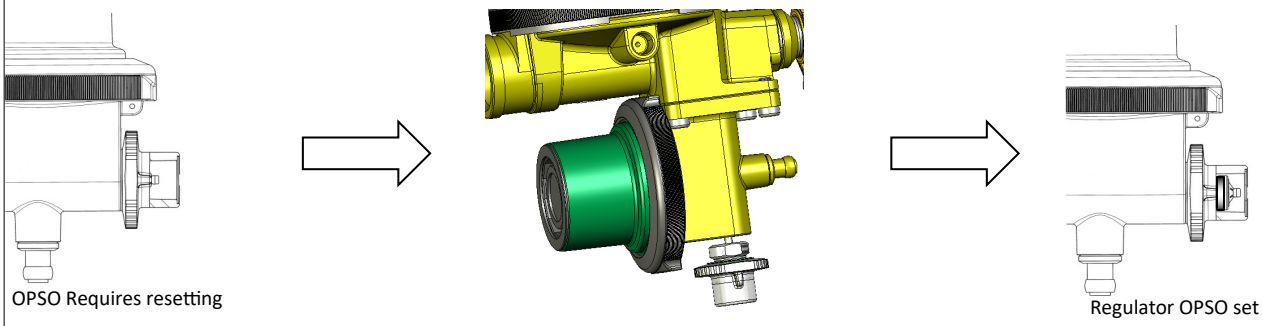
Under Pressure Shut Off Valve Reset on a 2nd Stage Regulator



Before resetting the Under Pressure Shut Off

1. Ensure any valves downstream of the regulator are closed before introducing gas into the pipework
2. Check gas is available, turned on upstream of the regulator and that the OPSO is also set
3. Unscrew the large clear plastic cap on the main body of the regulator as shown
4. Under this cap is the green UPSO reset (spindle), gently pull the green re-set, hold in this position whilst downstream pipework fills with gas. **Do not push the reset spindle**
5. Replace the cap, finger-tight and commission the installation if required.
6. When reset the green spindle is clearly visible under the clear cap as shown with the best viewing angle from the side.

Over Pressure Shut Off Valve Reset on a 2nd Stage Regulator



1. Over Pressure Shut Off must be reset by a qualified gas engineer, who should establish any cause for tripping, particular if this device trips repeatedly
2. The device is fitted with a sealing wire, this must be replaced when reset
3. If the OPSO has tripped together with UPSO then the OPSO must be reset first
4. The gas supply does not require to be turned on, but ensure downstream valves have been turned off before resetting
5. Remove sealing wire and unscrew the OPSO reset cap, in doing so this will begin to engage the reset spindle
6. The OPSO cap is attached to the green reset indicator inside and is used to pull the device to reset—pull the cap firmly
7. When reset, replace cap, reseal with new wire seal, if required proceed to reset UPSO.

Nominal Pressure Adjustment

Regulator adjustment is not normally required—however in the event that this is needed:

1. Remove the clear UPSO cap, remove and discard the white plastic tamperproof disc and adjust to give the desired pressure.
2. Replace the UPSO cap

Fitting Wall End Bracket

1. Remove two screws only from the opposing sides of OPSO body as shown using a Allen key 4mm .
2. Fit the bracket as shown to the regulator (note the bracket is specially angled to allow close fitting to wall) replace and retighten screws.