CLESSE PART No. 002713AE	APZ400 1ST STAGE REGULATOR 0.75bar 40kg/h (553kW)	SUPPLIED BY CLESSE (UK) LIMITED

02/2023

Technical Information	
Regulator	APZ400
Capacity kg/h (kW)	40 (553)
Set Pressure	0.75bar Fixed
Inlet Pressure	1.25-16bar
OPSO Set Pressure	None
Design Standard	EN16129
Inlet connection	US POL
Outlet connection	Rc3/8F ISO/7 (BSP)

Item	Qty	Description
1	1	APZ 400 0.75bar 1st Stage Regulator

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. Assemble any components using PTFE tape to BS EN 751:3 Type G or Clessetite on the male pipe threads. Tighten the regulator or POL without applying undue strain on pre-assembled joints, particularly between regulator & OPSO. Assemble to achieve a gas tight seal using a flat jawed spanner on the appropriate points on the regulator.
3. The POL connection should be fitted to the first stage regulator and set at an angle of 45^{o} left of TDC or horizontal, dependant on location. This joint should be tightened to approximately 30 Nm.
4. Always position the regulator to ensure drainage of diaphragm cover
5. Any steel pipe (not supplied) should be threaded, de-burred, and thoroughly cleaned of any loose material before assembly onto the First Stage regulator assembly. Use flat jawed spanner at the outlet end of the OPSO when screwing the pipe.
6. Install the completed assembly onto the vessel, tighten any securing clamps after the regulator POL connection has been made, ensuring no undue strain on the assembly occurs when doing so, particularly the POL fitting.
7. Perform a gas tightness test to the requirements of UKLPG COP22 or BS 5482:1 – 2005.
8. Use Leak Detection Fluid on the test point and POL connection, wiping off any remaining residues. If not using LPG for test media, purge the assembly fully before leaving site, ensuring all pipework is plugged or capped.
9. Fully commission assembly, checking operating pressures only when the appliances are available and connected. Otherwise, check for soundness and lockup before leaving.

Incorrect setting of first stage pressure, particularly where vessel pressure is low, is a major cause of 2nd stage UPSO activation. Likewise, incorrect setting when the vessel pressure is high can lead to OPSO tripping.

*Operating Conditions	Settings
Pressure Range	0.7-2 bar
Inlet Operating Pressure to achieve max capacity	2.5 - 16bar
Operating temperature	-20^{o}C to 45^{o}C
OPSO Sensing Method	Internal
Lockup Pressure	30% above nominal pressure setting