

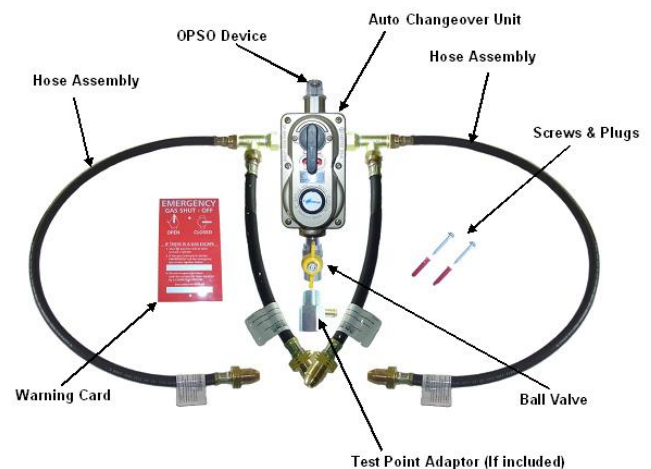
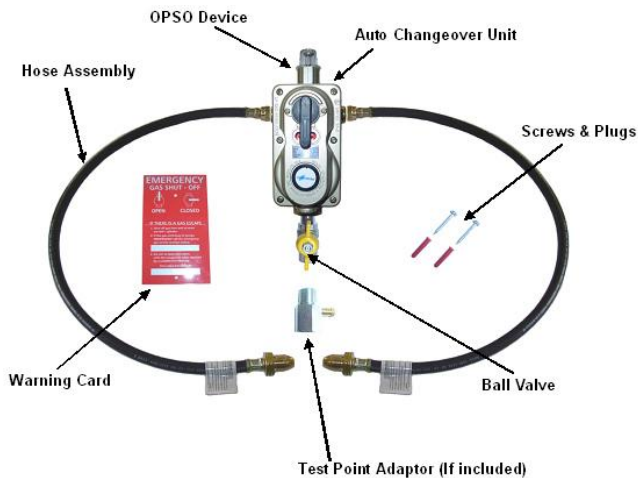


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Assembly Installation Instructions for Model RF6030 OPSO Auto Changeover Regulator

ASSEMBLY LIST FOR 2 CYLINDER AUTO CHANGEOVER UNIT	
DESCRIPTION	QTY
M20 X UKPOL 0.5M HOSE ASSEMBLY WITH EXF	2
AUTO CHANGEOVER WITH OPSO	1
RAWL PLUGS & WOODSCREWS	2 & 2
REGULATOR SCREW	4
BRACKET	1
½" BALLVALVE M/F TEE HANDLE – MALE TAPER	1
PRESSURE TEST NIPPLE (IF INCLUDED)	1
TEST NIPPLE ADAPTOR ½" (IF INCLUDED)	1
GAS SHUT OFF PLAQUE	1

ASSEMBLY LIST FOR 4 CYLINDER AUTO CHANGEOVER UNIT	
DESCRIPTION	QTY
M20 X UKPOL 0.5M HOSE ASSEMBLY WITH EXF	2
AUTO CHANGEOVER WITH OPSO	1
M20 X UK POL 0.9M HOSE ASSEMBLY WITH EXF	2
RAWL PLUGS & WOODSCREWS	2 & 2
REGULATOR SCREW	4
BRACKET	1
½" BALLVALVE M/F TEE HANDLE – MALE TAPER	1
PRESSURE TEST NIPPLE (IF INCLUDED)	1
TEST NIPPLE ADAPTOR ½" (IF INCLUDED)	1
TEE PIECE	2
GAS SHUT OFF PLAQUE	1



INFORMATION TECHNICAL

Operating temperature range: -20°C~50°C

Inlet pressure:- 1-20bar
 Outlet pressure:- 37mbar
 Max Capacity:- 4.5kg
 Changeover pressure:- 7psig
 Limited Relief 74 mbar
 OPSO pressure:- 95mbar
 Inlet connections: M20.1 x 1.5 parallel
 Outlet connection:- G½ (½" BSP) female

INSTALLATION

- Remove all parts carefully from the carton and attach the wall mounting bracket to the underside of the regulator with the 4 mounting screws supplied.
- Place regulator against wall in required position and mark holes through bracket. The slotted hole of the bracket is fitted at the top.
- Suitably drill 2 holes and fit rawl plugs flush to wall.
- Apply an approved thread sealant to taper male thread on ½" BSPT valve and screw into regulator outlet and tighten to a torque of 15Nm Torque may be exceeded so that control lever faces outwards.
- Apply P.T.F.E tape to taper male threads on ½" BSP Test Point Adaptor (if supplied) and screw into Ball valve outlet and tighten to a torque of 15Nm Torque may be exceeded so that the test point is orientated correctly.
- Position the regulator assembly over rawl plugs and secure to wall using the round head screws provided – NOTE: the smaller screw is fitted at the top.
- Fit H.P hose assemblies to regulator using sealing washer attached to hose. Ensure correct alignment of sealing washers.
- Fit Tees as shown if there are more than 2 cylinders per side
- Tighten adaptor nuts to a torque of 5Nm.
- Connect hose end POL's to cylinder valves (left hand threads)
- Ensure all connections are firmly tightened with a spanner and the downstream pipework is complete.
- This regulator is fitted with an O.P.S.O (over pressure shut off) device. This may need resetting before the cylinder valves are turned on.
- Open all cylinder valves and outlet ball valve & check all joints for leaks using a soap solution. Note: If the OPSO trips i.e. Silver lever drops down, turn off the gas and reset the OPSO. Reapply the gas gradually and if the OPSO trips or fails to reset, replace the regulator. NEVER check for leaks with a naked flame.
- If a leak is found, turn off all cylinder valves, bleed system and correct leak. Check again – repeat from 8.
- Close outlet ball valve
- On satisfactory completion of the installation the OPSO cap must be sealed with lead seal/wire. On completion of the downstream pipework the following regulator safety checks shall be performed:
- Check outlet pressure 37±5mbar at pressure test point.
- Ensure regulator lock-up of +15mbar max. Test the entire installation for leaks.

WARNING

The model RF6030 OPSO must be installed, operated and maintained in accordance with UKLPG Codes of Practice.



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Things for the Gas Installer to tell the Customer

1. Point out the regulator vent to the customer, and stress that this opening must remain unobstructed at all times. Tell the customer to be sure to check the vent opening after any freezing rain, sleet storm, or snow to make sure ice has not formed in the vent. When the device is to be used outdoors, it shall be positioned or protected against direct penetration by any trickling water.
2. Show the customer the shutoff valves on the cylinders. The customer should close these valves immediately if gas can be smelled, appliance pilot lights fail to stay on or appear higher than usual, or any other abnormal situation occurs.
3. Tell the customer to call your company to service the regulator. If the regulator vents gas or a leak develops in the system, only a qualified gas serviceman should install or service the regulator.
4. Inform the customer that the supply cylinder is not completely empty until the red warning flag is fully visible in the indicator window.

If the device is enclosed in an unvented compartment, the relief valve must be vented outdoors or adequate ventilation of the compartment must be supplied.

This unit is for propane use only.

Operation

Place one of the two cylinder banks in "supply" by rotating the black central lever either way as far as it will go until it settles in the 3 o'clock or 9 o'clock position. The lever will then point to the "supply" service side. Open all cylinder valves slowly.

Gas will now flow from both sides through the pigtailed into the changeover unit by the way of the inlet fittings. When a pressure of 7 psig is reached beneath the internal diaphragm, the closing spring in the inlet fitting will shutoff gas from the "reserve" cylinder(s).

The "Supply" side of the regulator will continue to supply gas as long as sufficient gas remains in the "supply" cylinders. When pressure in these cylinder(s) drops to about 7psig, the "reserve" side of the regulator will open and continue to regulate at 37mbar. At the time the "supply" cylinder(s) become exhausted, a red warning flag appears in the indicator window. This red flag indicates that any empty cylinder(s) should now be exchanged.

If a leak is smelled or detected, the cylinder(s) should be turned off at the handwheel valve(s) and your gas supplier consulted. Never check for leaks with a naked flame. Always use soapy solution, bubbles will show up around the area of the leak. Never try to repair the leak yourself, always call a registered and qualified gas fitter.

All Hoses must be connected to cylinders when in operation.

All inlet connections should be clean and free from debris and dust.

Exchange of Cylinders

Before removing any empty cylinder(s), be sure to rotate the black central changeover lever so that it points to the other cylinder(s). Then close the valve(s) of the empty cylinder(s) to prevent air from entering the cylinder(s) and disconnect the cylinder(s). Clean the cylinder(s) valve(s) outlet in the new cylinder(s). After any new cylinder is in place, slowly open the cylinder valve.

The new cylinder bank now becomes the reserve cylinder bank, and the red warning flag should not be visible at the indicator window. If only one bank is to be left connected, the pigtail(s) or hose(s) to the cylinder(s) in the opposite bank must be capped to prevent leakage or contamination.

WARNING

Extreme care must be taken when disconnecting cylinders. The cylinder being changed must be turned off at the handwheel valve and the black central changeover lever turned to suit the cylinder in use. No naked lights or sources of ignition must be in the vicinity of the cylinder being changed

******* THERE WILL STILL BE PRESSURE IN THE EMPTY CYLINDER *******

To avoid personal injury or equipment damage, do not attempt any maintenance or disassembly without first isolating the regulator from system pressure and relieving all internal pressure

Adjustment

Each model RF6030 OPSO changeover regulator is individually factory set to deliver 37mbar. If it becomes necessary to increase outlet pressure, remove the black central dust cap by turning anti clockwise and then turn the adjusting nut inside clockwise. Turn the adjusting nut anti clockwise to decrease the outlet pressure. A pressure gauge or water manometer is needed to determine the regulator outlet setting after adjustment. Always replace the black dust cap after any adjustment is made.

In normal conditions of use, in order to ensure correct operation of the installation, it is recommended that this device is changed within 10 years of the date of manufacture.

Hose Assemblies:

LPG flexible hoses to BS 3212 or BS EN 1763 have a limited safe service life, including time spent in storage. It is recommended that such hoses be replaced not later than 5 years from the date of manufacture, or earlier in the event of physical damage or evidence of degradation. Hoses used externally and in a coastal/marina type environment normally will experience accelerated degradation

Aggressive operating conditions or simple misuse may render the hose unfit for service in a shorter time than 5 years. The User of the hose carries responsibility for routinely checking visually the hose(s) for signs of abrasion, cuts, cracks, fading, brittleness, hot spots or other damage. If the User has doubts about hose integrity then arrangements should be made for a competent person to check and if necessary, fit a replacement(s).