VACGEN

Assembly Guide

LVM Pad Replacement AS0026

VGS03-02T26

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DISCLAIMER

This Assembly Guide should be used in conjunction with the owner's manual where available, and is intended as a guide only as there maybe variations between versions and therefore must be used at the Owner's Risk. For more detailed assistance, please contact our Support desk +44 (0) 1323 379 335 or support@vacgen.com.

HEALTH AND SAFETY

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Revision	Date	Comment	Initials
1			
2			
3			

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Hailsham, East Sussex
BN27 4EL, UK

LVM Pad Replacement

There are two kit options:

ZLVMPSK: Pad with Gold Seal, which is for general failure
The kit contains a Pad and Gold Seal

ZLVMDSK: Full kit for valves which failed after over baking
The kit contains, Pad, Gold Seal and Centre Core with diaphragm

1. Undo control screw so arm is free
2. Remove the dome headed nut, release lock nut and undo grub screw. (Lock Nut B)
3. Remove the six screws holding the body together
4. With the body parted, the core will drop out
5. Either replace the pad or pad with core assembly
6. Remove the gold seal, this can be stuck onto the surface, DO NOT damage the sealing face when removing, use a non-metallic item
7. Check the inside is clean and use isopropanol if required
8. Reassembly
9. Refit control knob
10. Wind Control Knob all the way in and check the arm is slightly open from parallel.
    You can use a 5mm Allen Key to set this gap.
    You will need to release "Lock Nut A" from the "Control Nut"
11. Now set the "Lock Nut A" & "Control Nut" back half a turn.
12. Lock the "Lock Nut A" to the "Control Nut"
13. Release the grub screw holding the index ring and set to ZERO.
    You should now have the arm slight open from parallel and the option to turn the "Lock Nut A" & "Control Nut" half a turn clock-wise. This gives you the option to over tighten the valve should a small leak appears.
14. Attach the valve to a leak checker and refit the grub screw (Lock Nut B) and apply sealing pressure, until the valve seal. (We use Helium)
15. Open the valve several times and then close the valve. Now leak check and it will almost certainly leak at this point.
16. Tighten the grub screw (Lock Nut B) by 1° intervals until the valve is closed again

NOTE: If the grub screw (Lock Nut B) is difficult to turn, open valve by a few turns to release the pressure on the pad.

17. Again, open the valve several times and then close the valve "Lock Nut A" & "Control-Nut". Again it will almost certainly leak at this point.
18. Repeat from section 16 until sealed. The slower you do this, the less likely you will over tighten the valve.

NOTE: It is important to do the sealing operation in slow steps, as over compression of the pad at this stage will mean replacing the pad.

19. Tighten lock nut and refit dome nut (Lock Nut B)
20. Rerun leak test to be sure the position has not moved.

Bakeout Information:
Open 450°c
Closed 250°c

NOTE:
The drawing shows which is the system flange.
The side port is the Gas Inlet Port and must be always fitted in this orientation