



VACGEN

Assembly Guide

LVM Replace Arm/Control Knob

AS0028

VGS03-02T28



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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 may be 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

All repairs and services should be carried out by a qualified engineer, using the correct tools and procedures to carry out the repair. VACGEN are not liable for any errors within the assembly guides which may cause inconsistencies during repair.

The Goods, especially chemicals, may be dangerous if not properly used or stored and the appropriate precautions taken. The Customer accordingly agrees that it shall take all such steps as are reasonably practicable or usual to eliminate or reduce any risk to health and/or safety to which use of the Goods may give rise and acknowledges that where the Goods are manufactured to a design supplied by the Customer, the Company will not undertake any research as to the risks to health and/or safety which may arise from use or storage of the Goods. Where the Goods are manufactured to a design supplied by the Customer, the Customer shall comply with all the duties which may be implied at law on a designer and/or manufacturer of the Goods.

Revision	Date	Comment	Initials
1			
2			
3			

Unit A, Swallow Business Park
Diamond Drive, Lower Dicker
Hailsham, East Sussex
BN27 4EL, UK



LVM Replacement Arm and/or Control Knob

1. Undo and remove the Dome Nut
2. Undo and Lock Nut B and remove with the Grub Screw
3. Remove the pin that the grub screw pushes against, this will just drop out
4. Punch the pins out and the Control Arm will now be free
5. Replace arm in reverse
6. Fit the Control Knob assembly
7. Set the Control Knob so that there is a 5mm gap between the Arm and Body. You can use a 5mm allen key to set the gap.
8. Wind the Control Knob to the arm and back half a turn
9. Now set the zero-index scale to the line on the arm, using the locking grub screw
NOTE: The arm should now be slightly open (not parallel) to the body and you should have half a turn passed zero.
10. Once the arm is set, refit the Pin and Grub Screw
11. Tighten the grub screw by 1° intervals until the valve is closed, (Leak Tight).
NOTE: If the grub screw is difficult to turn, open valve by a few turns to release the pressure on the pad.
12. Operate valve a few times.
13. Check for leak, repeat from section 4 until sealed.
NOTE: It is important to do the sealing operation of the valve in steps, as over compression of the pad at this stage will mean replacing the pad.
14. Tighten lock nut and refit dome nut (Lock Nut B)
15. Rerun leak test to be sure the position has not moved.



Bakeout Information:

Open 450°C

Closed 250°C

LVM Kits:

ZLVMSDK For valves which have failed after several high bake-outs.

ZLVMP5K For valves which have failed under normal usage.

ZLVMARMKT Control Arm Assembly with Control Knob Assembly

ZLVMKNOBKT Control Knob Assembly

Overview of the Internal Workings of the LVM

