Stannah

Procedure for replacing the down valve (VMD) on MRLi models (GEV valve block)

***** For identification of components refer to the images on page 2 of this document *****

Some MRLi models incorporate a manual safety gear tripping system (mounted on the guide rail). For the purpose of this document the system is referred to by its more commonly used name: “kite switch”.

1. Position the lift above the height of the pit prop and kite switch (where fitted).
2. Operate the pit stop switch and activate the kite switch (where fitted), before entering the pit.
3. Install the pit prop (both sections).
4. Close the main shut-off valve (located on the right hand end of the tank).
5. Remove the lid from the tank.
6. Depress the red manual lowering valve located in the tank (ref. “ML”). The manometer pressure should reduce to approximately 5 bar at this stage.
7. Manually depress the small brass button in the centre of the VMD valve to reduce the pressure to zero.

NEVER DEPRESS VMD WITH THE SHUT-OFF VALVE OPEN AS THIS WILL CAUSE THE LIFT TO DESCEND RAPIDLY!

8. Unscrew the solenoid retaining collar from VMD and remove the solenoid from the valve stem.
9. Loosen the old VMD valve using a 24mm AF ring spanner and then unscrew and remove it.

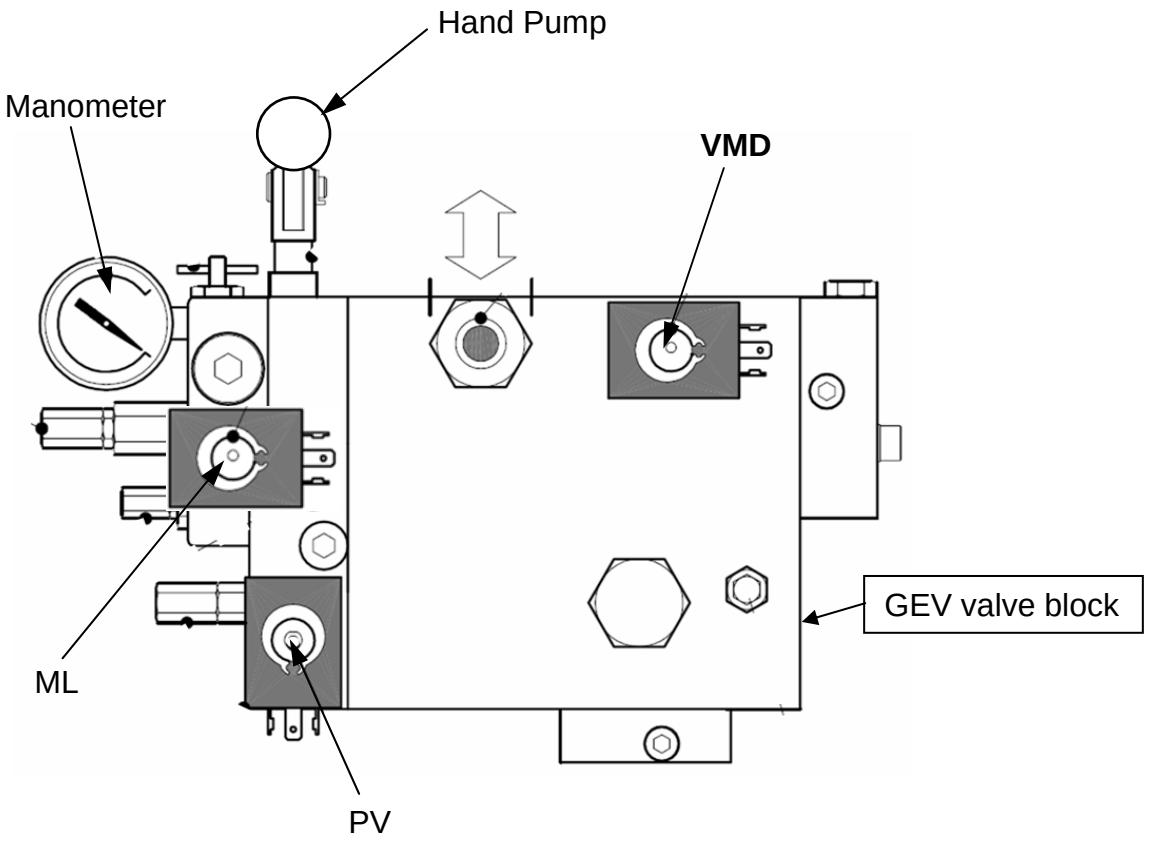
ENSURE THAT NO CONTAMINANTS CAN DROP IN TO THE EXPOSED VALVE PORT!

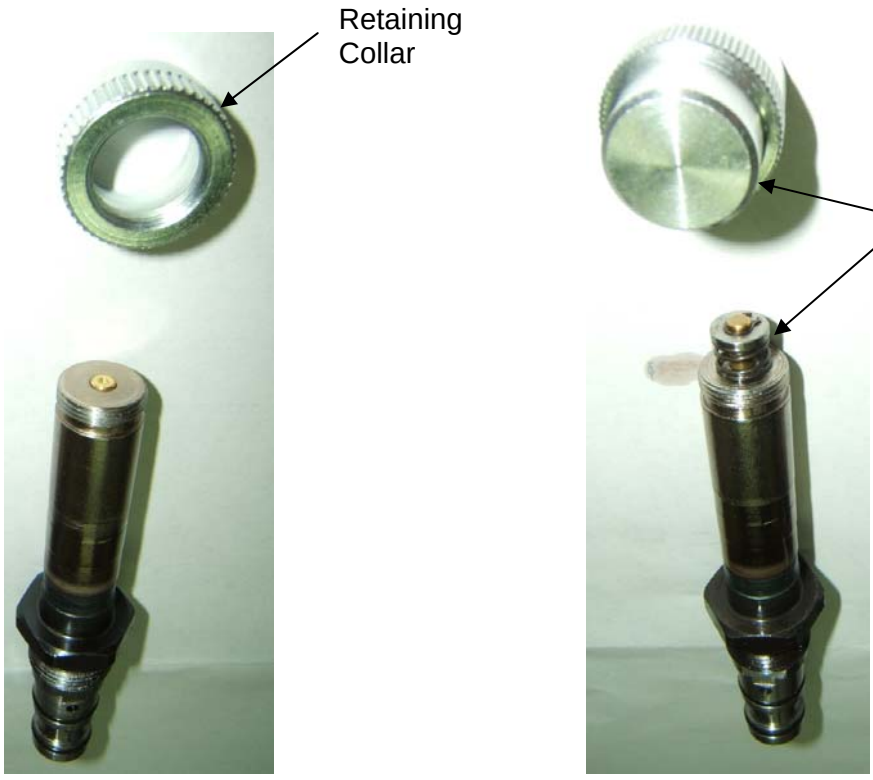
10. Ensure that the new VMD valve is clean, and then screw the valve in to the port.
11. Tighten the valve using a 24mm AF ring spanner.
12. Remove the protective cap from the new VMD valve.
13. Slip the VMD solenoid back over the valve stem.
14. Fasten the protective cap back on to the top of the new VMD valve.
15. Manually operate either of the hand pumps (located in the tank and in the lowest landing upright) until the pressure on the manometer reads between 20 and 40 bar.
16. Monitor this pressure for 1 minute. If the pressure drops by more than 10 bar, this indicates a leak within the valve block - this must be rectified before moving on to step 17.

IF THE PRESSURE DROPS BACK TO ZERO, DO NOT PROCEED BEYOND STEP 16!

17. After confirming that the pressure is being maintained, open the main shut-off valve.
18. Replace the tank lid.
19. Remove the pit prop.
20. Vacate the pit, removing all tools and the old VMD valve.
21. Restore the kite switch to its normal running position, re-instate the pit stop switch and close the landing doors.
22. Restore the lift to “normal operation”. Test-run the lift up and down several times to verify that the lift operation is acceptable. The first run should be in the down direction to minimise the potential of air entering the system.
23. Fill out the log book/service card.

Note: If, after replacing VMD, the performance of the lift has deteriorated (e.g. inconsistent levelling) it may be due to air having been introduced in to the valve block. In this situation it will be necessary to bleed the PV valve.





Old VMD

New VMD