

Assembly Guide DPRF Assembly Information AS0002

VGS03-02T02



Copyright Notice 2002 by VACGEN. All rights reserved. Information contained in this handbook is subject to change without notice and does not represent a commitment on the part of VACGEN. No part of this document may be copied or distributed, transmitted, transcribed, stored in a retrieval system or translated into any human or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, manual or otherwise or disclosed to third parties without the express written permission of VACGEN LTD, Unit A, Swallow Business Park, Diamond Drive, Lower Dicker, Hailsham, East Sussex, BN27 4EL, UK.

Helping you make the next leap forward

www.vacgen.com



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@vacqen.com.

HEALTH AND SAFFTY

All repairs and services should be carried out by a qualified engineer, usinig 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.



DPRF Assembly Information

- 1. Remove the DPRF from the manipulator.
- 2. If fitted, remove the handwheel or motor assembly, this is held on to the body via six cap head screws.
- 3. With the lower flange hand held, unscrews the clamp ring.
- 4. NOTE: the clamp ring may not fully undo, but hits the gear (If fitted). The DPRF has to be pulled apart slightly too fully undo the clamping ring fully.
- 5. With the lower flange hand held, turn and pull the top flange up, to draw out the seal assembly. Keep the pull as vertical as possible. This can be tight!
- 6. You will now have the inner assembly free of the outer assembly.
- 7. NOTE: Note the orientation of the "U" shaped seals, so you fit the new ones in the same orientation.
- 8. WITH GREAT CARE remove the spiral clip (11) that holds the seal assembly on to the inner tube.
- 9. WITH GREAT CARE remove the seals and spacers.
- 10. Check the sealing surface for damage, which would be very rare.
- 11. However, if any damage is seen, polish in a lath using 1200 Grit Wet & Dry Paper. Isopropanol is a better wetting agent than water.
- 12. Check the inner seal surface, this is more difficult to polish if required, and should be done by a skilled machinist, in the same way.
- 13.FULLY clean with Isopropanol. VERY IMPORTANT: FULLY WIPE OVER THE SEALS WITH ISOPROPANOL, to remove loose surface.
- 14.If your process allows this, use isopropanol as a lubricant when fitting seals.

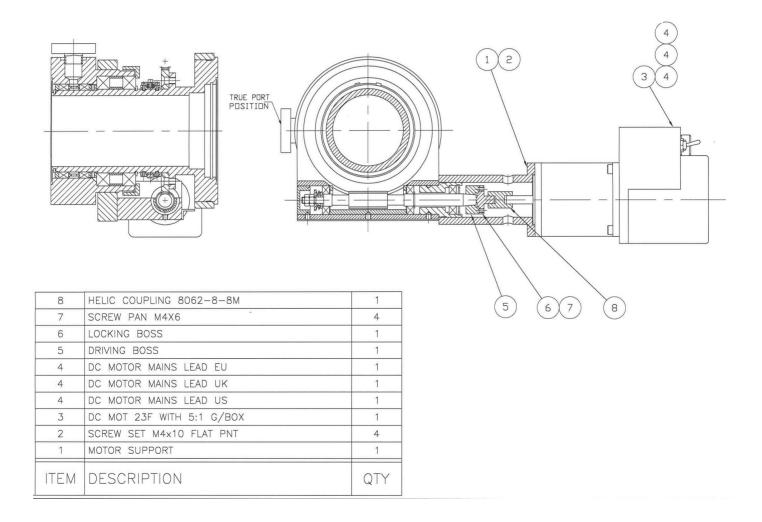
 VERY IMPORTANT: Make sure there is no dirt on the seal or seal face that will damage the sealing faces when the seals are refitted.
- 15. Assemble seal assembly as removed.
- 16.If your process allows this, use isopropanol as a lubricant when fitting the inner assembly into outer body. VERY IMPORTANT: Make sure there is no dirt on the seal or seal face that will damage the sealing faces when the seals are refitted.
- 17. When doing the locking ring up as the assembly closes down, pulling the inner assembly into the body, so take care not to trap your fingers as it closes down.
- 18. Rotate the DPRF in both directions and then test on a Leak Checker if possible, WITH the interspaced pumped.
- 19. Fit handwheel / motor assembly if fitted.



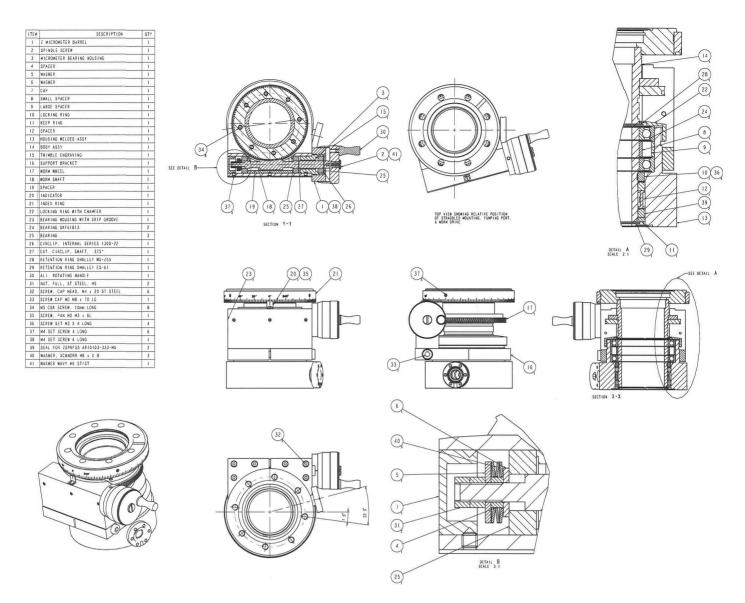
SEAL KITS (2 seals in each kit):

A)	ZDPRF25 old style pumping port in body centre	Obsolete
B)	ZDPRF25 new style pumping port in lower flange	ZXSMS07
C)	ZDPRF25 Main Bearings new version	ZDPRF25B
D)	ZDPRF55 Seals all ages two seal version	ZXSMS03
E)	ZDPRF55 Seals all ages three seal version	ZXSMS03-3
F)	ZDPRF55 Main Bearings all ages & seal version	ZDPRF55B

DRAWINGS







Revision	Date	Comment	Initials
1			
2			
3			

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