

Assembly Guide RD1, 6 & 7 Bellows Assembly Replacement AS0004

VGS03-02T04



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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.



RD1 Bellows Change

- 1. Remove grub screw holding the lower locking ring (index scale 7)
- 2. Remove knob cover (11)
- 3. Remove the two M5 screws hold the top bearing clamp (17)
- 4. Pull the locking ring (7) back and remove the spiral clip in knob (3)
- 5. Pull the knob off
- 6. Remove the horse show clamp by sliding off the bearing
- 7. Remove three grub screws (19) and pull off bearing assemble. Note that this will not come straight off and the knob assembly needs to be angled slightly (2)
- 8. Now working where the shaft comes out of the housing, peel out the spiral ring (16) (or remove bearing housing if fitted, this is screed on)
- 9. Wave washer will drop out (17)
- 10. Carefully pull out the shaft with the bearings, taking care not to damage the inside of the bellows, as the shaft is curved and the shaft needs to be angled

You can now fit in reverse, taking great care when refitting the curved shaft into the bellows, carefully move the bellows over to allow the shaft to pass through.

Make sure the bearings are fully seated in the bearing cap at the top of the bellows.

RD6 / RD7 Bellows Change

- 11. Remove three grub screws (20)
- 12. Carefully pull off the knob/housing assembly, note that this will not come straight off and the knob assembly needs to be angled slightly (2)
- 13. Now working where the shaft comes out of the housing, peel out the spiral ring (16)
- 14. Wave washer will drop out (17)
- 15. Carefully pull out the shaft with the bearings, taking care not to damage the inside of the bellows, as the shaft is curved and the shaft needs to be angled

You can now fit in reverse, taking great care when refitting the curved shaft into the bellows, carefully move the bellows over to allow the shaft to pass through.

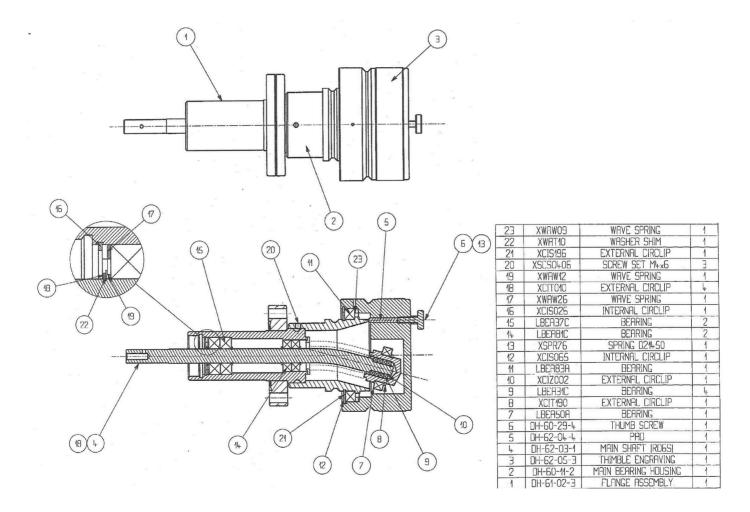
Make sure the bearings are fully seated in the bearing cap at the top of the bellows.



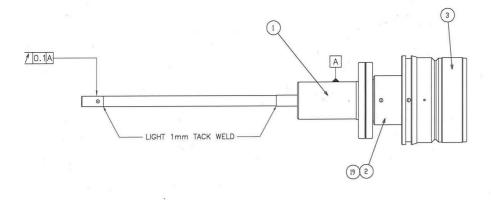
Difference between the three versions:

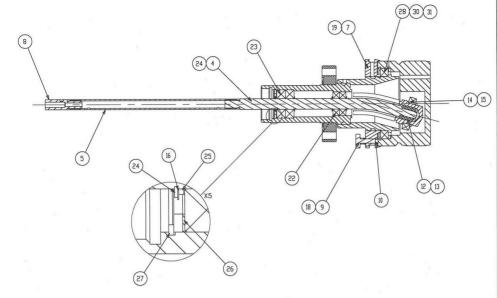
- RD6 does not have an Index scale Ring and a 100mm shaft length
- RD7 has the Index Scale Ring and a 256mm shaft length
- RD1 has the Index Scale Ring, two Bearings in the Housing and a 256mm shaft length

DRAWINGS

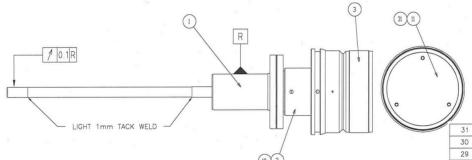


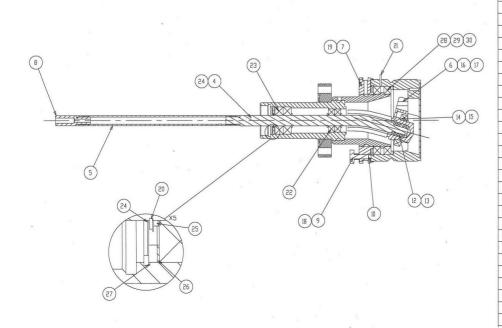






31	WAVE SPRING	1
30	INTERNAL CIRCLIP	1
29		
28	BEARING	1
27	INTERNAL CIRCLIP	1
26	WAVE SPRING	1
25	WAVE SPRING	1
24	EXTERNAL CIRCLIP	4
23	BEARING	2
22	BEARING	2
21		
20		
19	SCREW SET M4x6	6
18	SPRING D21450	1
17		
16	WASHER SHIM	1
15	EXTERNAL CIRCLIP	1
14	BEARING	1
13	EXTERNAL CIRCLIP	1
12	BEARING	4
11		
10	PAD	- 1
9	THUMB SCREW	1
8	TAPPED BOSS	1
7	LOCKING RING	1
6	*	
5	ROTARY DRIVE EXTENSION	1
4	MAIN SHAFT (RD1)	1
3	THIMBLE ENGRAVING	-1
2	MAIN BEARING HOUSING	1
1	FLANGE ASSEMBLY (RD1S)	9





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31	SPRING PAN M3 x 6	3
30	INTERNAL CIRCLIP	1
29	WAVE SPRING	1
28	BEARING	2
27	INTERNAL CIRCLIP	1
26	WAVE SPRING	1
25	WAVE SPRING	1
24	EXTERNAL CIRCLIP	4
23	BEARING	2
22	BEARING	2
21	PIN SPIROL 1/16" x 7/16"	1
20	WASHER SHIM	1
19	SCREW SET M4x6	6
18	SPRING D21450	1
17	SCREW CAP M5x12	2
16	SCREW SET M5x5	1
15	EXTERNAL CIRCLIP	1
14	BEARING	1
13	EXTERNAL CIRCLIP	1
12	BEARING	4
11	TOP PLATE(RD1S)	1
10	PAD	1
9	THUMB SCREW	1
8	TAPPED BOSS	1
7	LOCKING RING	1
6	RETAINER-WOBBLE BEARING	1
5	ROTARY DRIVE EXTENSION	1
4	MAIN SHAFT (RD1S)	1
3	THIMBLE (RD1/2)	1
2	MAIN BEARING HOUSING	1
1	FLANGE ASSEMBLY (RD1S)	1