VACGEN

Assembly Guide

CR Valve Pad Replacement AS0024

VGS03-02T24

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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.

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Revision	Date	Comment	Initials
1	31/03/2020	New Document	DM
2			
3			

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Valve Pad Replacement

1. Hold the valve with the axial port upwards
2. Open the valve fully to give the bellows the greatest strength
3. Use a large flat bladed screw driver and if possible, round the blade to suit the shape of the slot
4. Unscrew the pad until free
5. Use tweezers to lift the valve out of the side port, being very careful not to catch the internal knife edge. NOTE: There is a Schnorr washer (Domed spring washer) under the pad, this can be left in place if putting the new pad in straight away.
6. The concave side faces down
7. Use tweezers to lift the new pad in through the side port, being very careful not to catch the internal knife edge. NOTE: Make sure the washer is located correctly.
8. Tighten pad firmly.
9. Close valve by hand while using a clean dry gas to blow any particles out of the valve
10. Form the seal using the chart and leave for at least an hour for any copper creep
11. Open valve and reseal
12. If leak tight, reset index ring.
13. If not keep increasing torque to the maximum torque using the chart below
14. Once sealed, open and close the valve several times to bed in and re leak test

DRAWINGS

Specifications for the CR, CRD and CSD Series

Valve	Flanges	Conductance	Forming torque Nm (ftlb)	Operating Torque Nm (ftlb)
CR(D)20	NW16CF	5	4.7 (3.5)	2.4 - 3.7 (1.7 - 2.7)
CR(D)40	NW35CF	34	15.4 (11.4)	7.7 - 12.1 (5.7 - 8.9)
CR(D)60	NW63CF	100	38 (28.1)	19 - 29.9 (14 - 22.1)

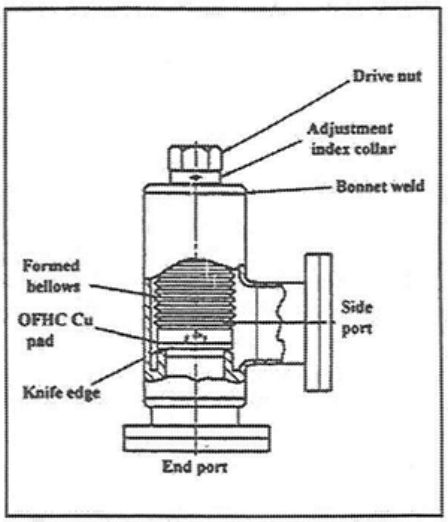


Figure 1. Welded bonnet valve.

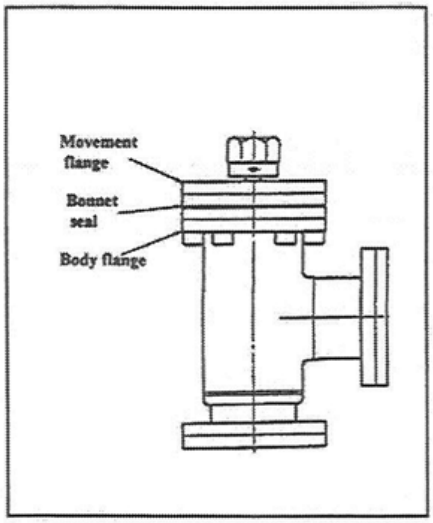
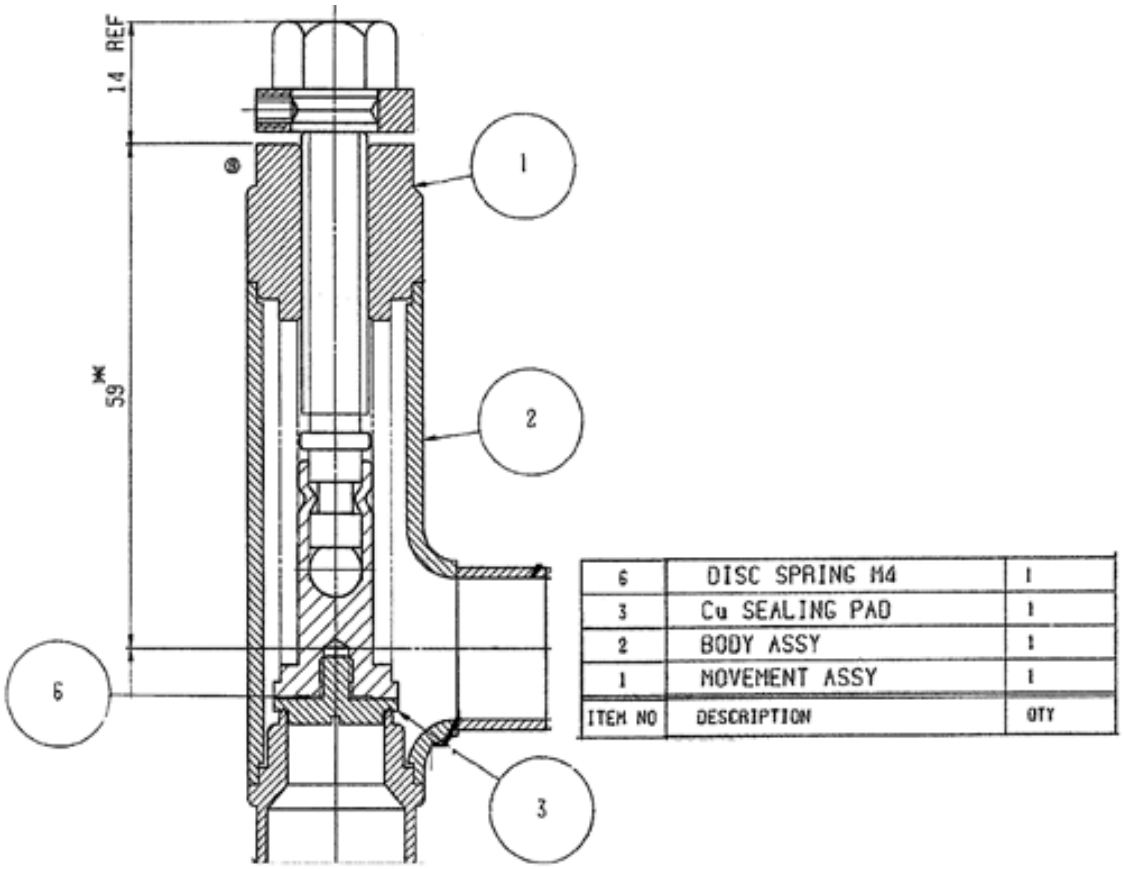
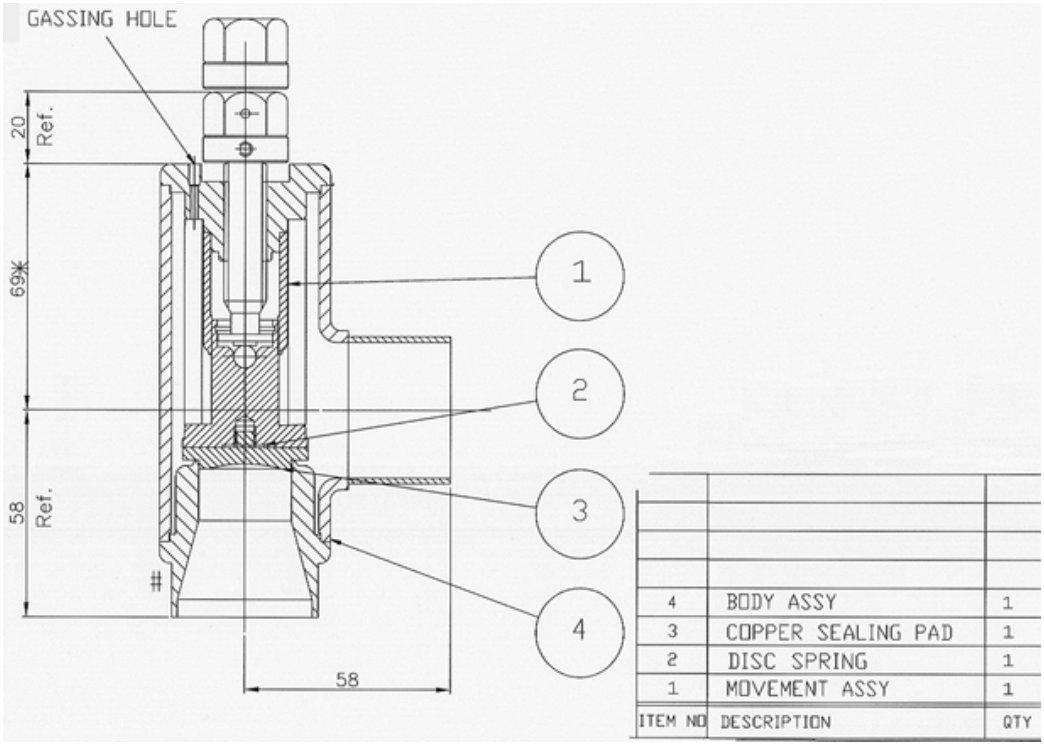


Figure 2. Demountable bonnet valve.

CR38 Seat forming torque is 10 ftlbs and max sealing torque is 8 ftlbs



ITEM NO	DESCRIPTION	QTY
6	DISC SPRING M4	1
3	Cu SEALING PAD	1
2	BODY ASSY	1
1	MOVEMENT ASSY	1



ITEM NO	DESCRIPTION	QTY
4	BODY ASSY	1
3	COPPER SEALING PAD	1
2	DISC SPRING	1
1	MOVEMENT ASSY	1