



Valves

Handling the world's dry bulk solids™



Technical Bulletin

Seal Tite Gravity Diverter™ – Blade Seal Replacement



Follow all applicable "cautions" and lockout/tagout safety procedures as outlined in product safety manual.

The flapper seal of the Vortex® Valve **Seal Tite Gravity Diverter™** is designed to be replaced without removing the valve from its location.

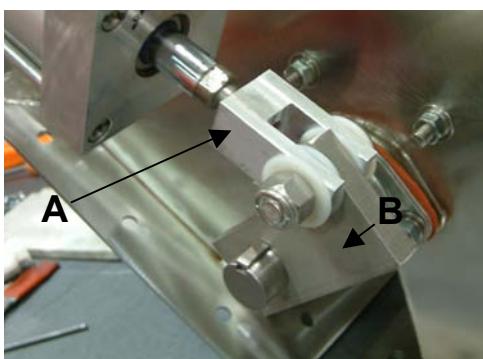
As with any Vortex® Valve, read and follow all safety instructions prior to installing, maintaining or operating equipment. Failure to comply with instructions may result in personal injury.



Replacing flapper seal

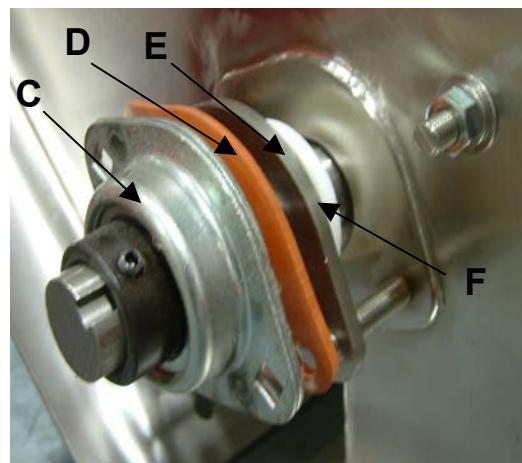
Valve shown in photos is an air actuated Vortex® Valve Seal Tite Diverter™ – SL.

Note: De-energize the air source from the air cylinder and bleed off any residual air that may be in the cylinder before you begin.

Step 1	
Disconnect Cylinder Clevis (a) from Actuator Arm (b) and remove Actuator Arm from Blade Shaft.	

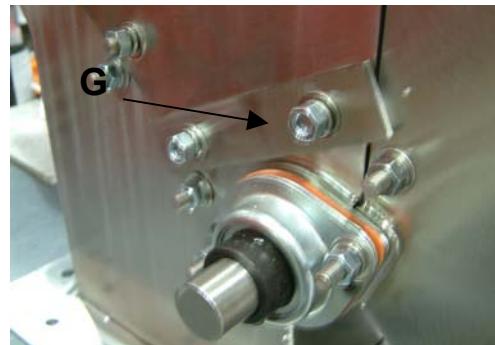
Step 2

From the rear of the unit, remove the Bearing (c), Bearing Gasket (d), Bearing Spacer (e), and Shaft Seal (f).



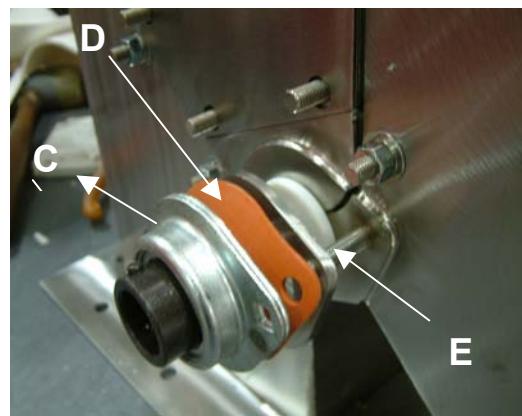
Step 3

From the front of the unit, remove CIP Seal Cover Bar (g).



Step 4

Remove the front Bearing (c), Bearing Gasket (d), and Bearing Spacer (e).

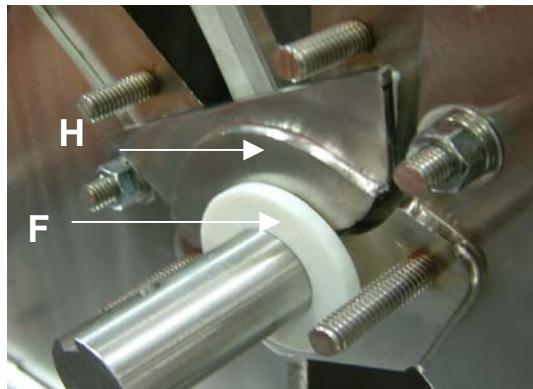


Step 5

Take off the front Removable Cover.

**Step 6**

Remove the Cover Bearing Spacer (h) and Shaft Seal (f).

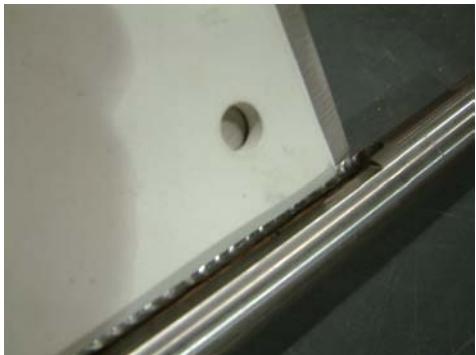
**Step 7**

Remove the Shaft / Blade Assembly.



Step 8	Remove the fasteners holding the two metal vanes together and remove the Blade Seal.	
---------------	--	--

Step 9	Install the new Blade Seal by reversing the procedures that have been presented.	
---------------	--	---

Step 10	When installing the new Blade Seal, make sure the beveled edge of the new seal fits into the Shaft Seal Channel and the mounting holes in the Blade Seal match the holes of the two metal vanes.	
----------------	--	--

Re-assemble by reversing the above steps.