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Vane Replacement Guide for Becker

VT 3.10 UP TO VT 3.40 VT 4.10 UP TO VT 4.40 VT - VACUUM PUMP DT - PRESSURE BLOWER

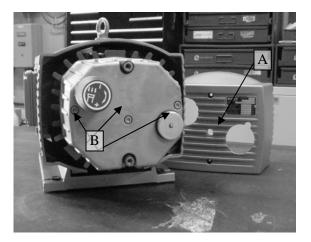
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BROKEN VANE REPLACEMENT PROCEDURE

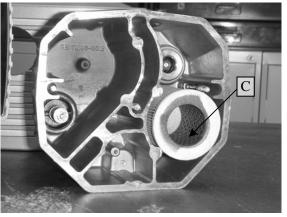
NOTE: Broken vanes will be easily visible during the inspection of both the inlet filter and exhaust housing. The inlet filter will have a heavy coating of dust on the inside and there will be broken pieces inside the exhaust housing.

Becker T series pumps

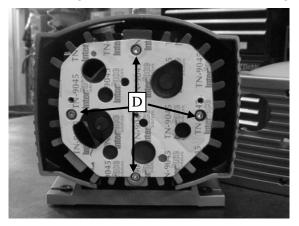
1. Remove the plastic pump cover (A) and the filter housing (B) from the pump.



2. Remove inlet filter (c) and any other filters inside the housing and discard. Do not re-use these filters



3. Remove the endshield (D) to gain access to the pump housing.

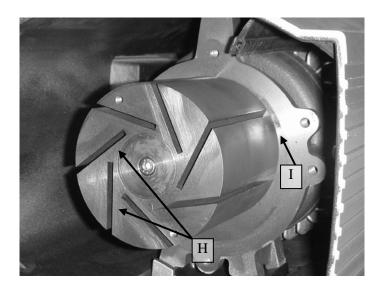


4. Remove the broken vanes from the housing (E) and rotor vane slots (F). Remove the pump housing (G) from the back endshield.



5. Using compressed air, blow out the filter housing and pump housing while there are removed from the pump. Blow out the rotor vane slots (H) and the space between the rotor and back endshield (I). Be sure to spin the rotor. Use a flashlight to check for broken pieces.

Care should be taken during this step to remove all broken pieces. This will prevent any particles from working their way back into the pump and breaking a new set of vanes.



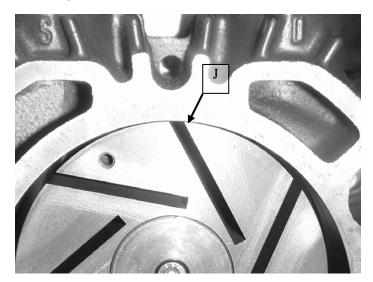
6. Bolt the pump housing back on to the pump.

Note: At this point the distance between the rotor and pump housing must be reset (J). The proper size feeler gauge must be inserted between rotor and housing at top dead center before tightening down the pump body.

Pump Type		Rotor to Housing Clearance
DT, VT, T	3.10/4.10	0.03 - 0.04 mm
DT, VT, T	3.16/4.16	0.03 - 0.05 mm
DT, VT, T	3.25/4.25	0.04 - 0.06 mm
ST, VT, T	3.41/4.40	0.05 - 0.07 mm

The following chart has the clearance measurements for the various T pumps.

Make sure the rotor spins freely. If the rotor makes contact with the housing, reset the clearance from that high spot on the rotor.



7. Install new vanes. Check to be sure high point in the tapered edge, points in the direction of rotation. Ensure vanes fit freely into vane slots. Reinstall endshield. Install NEW filters and bolt filter housing back onto pump. Start pump and check rotation. The parts required to undertake the replace of the vanes in the T series pumps are in the attached list.

Vane Replacement Parts List					
Booker T 4 40 DOK					
Becker T 4.16 DSK Vanes (7 Pc) 9013	247				
Mann & Hummel Filters	1 only	C 64/3			
	1 only	C 75/2			
	1 only	C 44			
Becker T 4.25 DSK					
Vanes (7 Pc) 9013					
Mann & Hummel Filters	1 only	C 75/2			
	1 only	C 44			
Booker T 4 40 DSK	1 only	C 78/6			
	Becker T 4.40 DSK Vanes (7 Pc) 901352				
Mann & Hummel Filters	1 only	C 75/2			
	1 only	C 44			
	1 only	C 78/6			
Becker DT 4.10					
Vanes (7 Pc) 9013		0.44			
Mann & Hummel Filter	1 only	C 44			
Becker DT 4.16	17				
Vanes (7 Pc) 9013 Mann & Hummel Filter		C 64/3			
Becker DT 4.25 K					
Vanes (7 Pc) 9013	349				
Mann & Hummel Filters	1 only	C 44			
	1 only	C 75/2			
	1 only	C 78/6			
Becker DT 4.40 K					
Vanes (7 Pc) 9013		0.75/0			
Mann & Hummel Filters	1 only 1 only	C 75/2 C 44			
	1 only	C 78/6			
Becker VT 4.10					
Vanes (7 Pc) 9013	327				
Mann & Hummel Filter		C 44			
Becker VT 4.16					
Vanes (7 Pc) 9013					
Mann & Hummel Filter	1 only	C 64/3			
Becker VT 4.25					
Vanes (7 Pc) 9013 Mann & Hummol Filtor		C 75/2			
Mann & Hummel Filter 1 only C 75/2 Becker VT 4.40					
Vanes (7 Pc) 901352					
Mann & Hummel Filters		C 75/2			
	,	0.0,2			