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BPVT1 SERVICE KIT

Covering Models:
VT75 / VT150 / VT250 (2 kits) VT300 (2 kits)

VT PUMP SERVICE PROCEDURE –

Tools Required:
Torque Wrench (minimum 10Nm), Torx bit T30, Hex Key

- 1) Turn the compressor off and drain the air receiver.
- 2) Remove the cylinder head bolts using a 4mm hex key.
- 3) Remove the cylinder head, cylinder head gasket, valve plate, valve plate gasket and air filter.
- 4) With the piston at the bottom of the cylinder loosen the centre screw on the piston with the torque wrench and Torx bit T30. Make a note or mark to indicate where the arrow is on the piston, this will give valve clearance when re-assembled. (See fig. 1)
- 5) Remove the two cylinder bolts using the 4mm hex key, the cylinder will now lift away.
- 6) Now remove the piston top, once done the piston ring will be free.
- 7) Remove the small O ring from the top of the crankcase.
- 8) Now check the main con rod bearings by looking down into the crankcase, you should not see any grease and the crankcase should be clean and dry.

At all times during this operation ensure all parts are absolutely clean and free from contamination

NEVER RE-USE OLD GASKETS.

- 9) Place the small O ring into the cast recess on top of the crankcase.
- 10) Now refit the cylinder and tighten the two bolts down to the shoulder plus a 1/4 turn.
- 11) With the piston at the bottom of its stroke refit the piston seal cup side up and centre the con rod
- 12) Fit the piston top with the arrow in the correct position, (Important – see Fig.1).
- 13) Tighten the piston screw with the torque wrench and Torx bit T30 to a setting of 10Nm. Make sure the top does not move.
- 15) Once the piston top is tight bring the piston to the top of the cylinder.
- 16) Now fit the new valves to the valve plate, ensure the valves cover the holes and the small nut and bolt is the correct way up (bolt head to the piston side, nut to the head side. See Fig 2.).
- 17) Now assemble the cylinder head, bolts, valves, filter and gaskets upside down on a flat surface once done pick up, gently turn the assembly over and put it into place over the cylinder and piston.
- 18) Tighten the cylinder head bolts in diagonal pairs down to the shoulder plus a 1/4 turn, do not over tighten.
- 19) Now turn the pump over by hand one side at a time this will tell you if you have put the valves and pistons on correctly, if not you will hear and possibly feel the piston(s) hitting the valves, if so then re check your assembly.

Kit Contents:		
Part No.	Description	Qty
BPB0620	Cylinder Head Gasket	2
BPB0621	Valve Plate Gasket	2
BPB0623	Piston Seal	2
BPB0682	Intake Filter	2
BPB0683	Valve Plate Nut	2
BPB0684	Valve Plate Washer	2
BPB0685	Outlet Valve	4
BPB0687	Valve Bolt	2
BPB0691	Cylinder to Block “O” Ring	2
BPB0692	Top Washer Bolt	2
BPB1219	Torx bit T30	1

Fig. 1: Valve Clearance arrows on piston

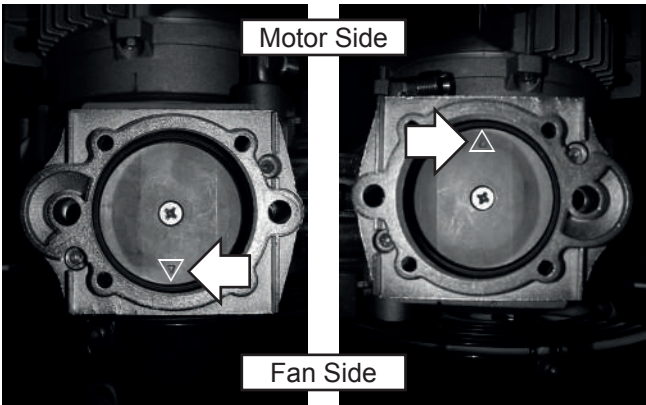


Fig. 2: Valve Plate configuration

