Pos. Nr.	Description
2	Motor
15	Rotor
16	Clamping disc
17	Star-tolerance-ring
18	
18	Socket head screw
21	Pump body
22	Locating peg
23	Socket head screw
74	Carbon vanes(Kit)
52	Locating peg
828	LIG CONTRACTOR
820	Socket nead screw
240	Odsket
- 00	Siotied pin
32	Nozzie
33	Cooler
34	Gasket
35	Socket head screw
46	Fan
48	Key
49	Washer
20	Shaft end bold
61	Filter cover
29	Leaf spring
72	Filter cartridge(1x)
73	Filter cartridge(1x)
74	Filter cartridge(1x)
76	Socket head screw
77	gring
78	O-ring
83	Protecting hood
84	Tube flexible
85	Rubber element
86	Washer
87	Nut
88	Protecting hood
89	Spacer
90	Socket head screw
91	Rubber element
92	Edge protection
94	Foot
92	Rubber element
96	Spacing collar
97	Socket head screw
98	Washer
101	Valve disc
102	Rubber bushing
103	Spacer tube
104	Ringscrew
124	Vacuum regulating valve
125	Pressure regulating valve
127	Silencer
132	Plug
133	Sild

7.0

Warranty period: One (1) year from start-up or 13 months from shipment date of pump for defect of material and manufactured components. This does not include wear parts such as vanes. Vanes have a 2,500 hour or 6 month garantee. Manufactured parts warranty and vane parts garantee is void if damage results from improper installation or operating in excess of nameplate specificiations, damage from improper maintenance, misuse, improper eletrical supply or wiring, damage from foreign materials (dirt, dust, metal, plastic, water, etc.) ingested by the unit. Warranty is void if excessively high temperatures are used or reached other than the pump was specified for and that that were originally specified by the customer during pre-purchase; Void also if gases not specified previously have entered the pump during operation.

To return customer should get approval and instructions from PFS for return and repair. On warranty inspections an RGA form must be included with pump or parts. Upon investigation if any of the above conditions have been broken the customer will be responsible for any repairs required.

Under the warranty, PFS is only responsible up to the value of the defective component. Anything else effected by the defective component dirently or indirectly is not the responsibility of the supplier Premier Fluid Systems.



Tel: 905-637-2611 Fax: 905-333-4722

Email: info@pfspumps.com

www.pfspumps.com





Dry Vane Vacuum Pumps

DVV / DP / DPV 10 - 16 - 25 - 40 Operating Manual



Premier Fluid Systems Canadian Home of Travaini Pumps

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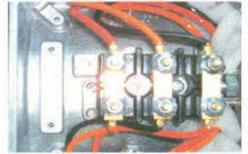


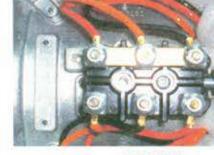


1. Tools



2. Installation&Motor Connection







(Low Voltage): 30 220V

(High Voltage): 30 380V

It is recommended to install the pumps with easy access for maintenance. Clearance between compressors and adjacent walls should be no less than 10cm of free space in order to ensure sufficient air flow for cooling. Contact Premier Fluid Systems Inc. Prior to installation under noise insulation canopies. Ambient temperatures must not exceed 45°C.

Connect the pump to the electricity supply observing all applicable safety regulations. Comply with EN 60204 T1. Connect motor based on connecting diagram(in terminal box) or ready made plugs. This work should be carried out by an experienced out by an esperienced electrici-an only. Check for connecting voltage and frequency. Avoid more than 10 switches per hour. Install motor circuitbreaker and set to nominal motor current .(For data see motor rating plate). Brieflystart motor and check rotation(arrow on casing). Exchange phases if rotation is incorrect.

Application





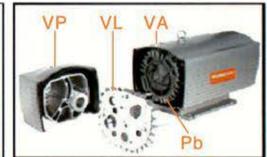
The pumps can be used to generate a vacuum(DVV) or over pressure(DPV). Inlet air must be standard dry atmospheric air. The pumps are dry-running. Avoid intake or oil mist. The specification is valid up to a height of 800 m above sea level.

4. Maintenance

Maintain pump regularly to achieve the best operating results. Maintenance intervals will depend on the pumps use and ambient conditions.

The procedure for how to replace the carbon vanes







VA (Intake of vccuum)

VP (Protecting hood of filter)

VL (Lid) Pb (Pump body)







































Note:

 Before commencing replacement switch off electricity to ensure that the person whose safety.

2. Do not disassemble or maintain the pump to avoid any hurt during high temperature phase.

Picture1.

Loosen 2 Socket head screws(pos.90) and remove the protecting hood by 5mm hexagon wrench key.

Picture2.

Loosen 3 Socket head screws (pos.76) and remove the protecting hood of filter.

Picture3.

Loosen 4 socket head screws (POS.29) of VL (Lid) and remove the VL (Lid). (Do not disassemble the SD during high temperature phase)

Picture4.

Clean the filter (Note: Blow out dirt from inside to outside by compressed air.

Picture5.

Clean the protecting hood of filter and Blow out dirt from inside to outside using compressed air.

Picture6.

Blow out dirt in cooling air channel Pb by compressed air.

Picture7.

Remove the VL and carbon vanes from the rotor.

Picture8.

Blow out dirt in cooling air channel Pb (pump body) by compressed air.

Picture9.

Install the carbon vanes in the rotor. (please notice the direction of carbon vanes).

Picture 10.

After install the carbon vanes, urn the rotor in the reverse direction and look the carbon vanes to fall from the rotor smoothly in the horizontal position.

Picture11.

Install the VL(Lid) and tighten 4 socket head screws evenly (Pos.29).

Picture 12.

Tighten 4 socket head screws on the VL(Lid) evenly.

Picture 13.

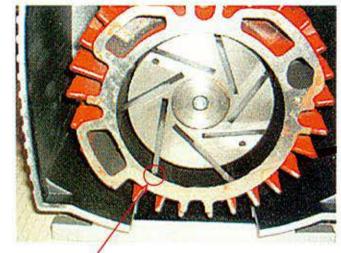
Tighten 3 socket head screws on the protecting hood of filter evenly.

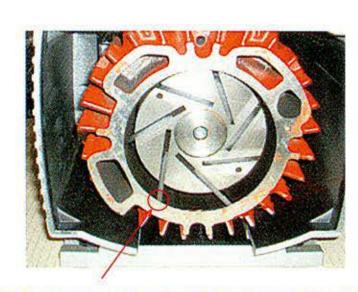
Picture 14.

Replacement finish.

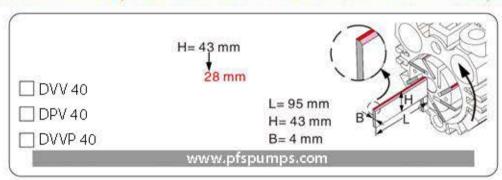


Note !!!





The carbon vanes are installed by incorrect direction. The carbon vanes are installed by correct direction.



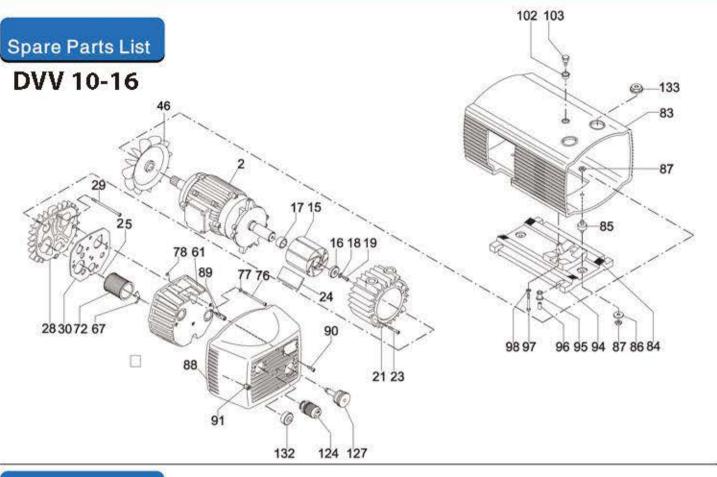
The filter catridges are inserted behind the enclosure cover VP. Clean depending on dust accumulation. Blow out filter from inside to outside. Replace blocked ,oily or greasy cartidges. Additional filters are available for operation in very dusty environments. Blow out dirt in cooling air channels Pb by compressed air. The vanes are subject to abrasion from the walls of the enclosure.

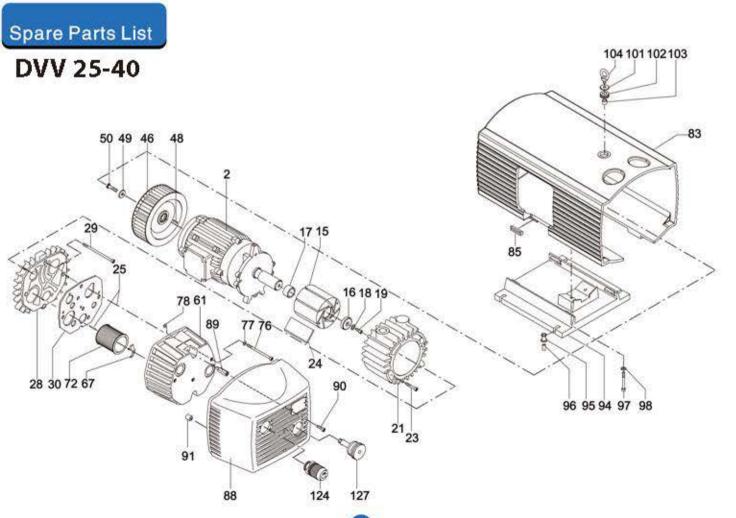
Check vane width every 3,000 operating hours or annually (It has to shorten the maintenance intervals by 24 operating hours daily). Remove housing cover VP and side cover VL for this. on replacement blow out enclosure by dry compressed air.

Width of vanes (min. mm):

Model	Nominal 'H' Dimension	Min. before replacement
VE-DE-10	24 mm	18 mm
VE-DE-16	35 mm	22 mm
VE-DE-BVT-25	43 mm	28 mm
VE-DE-BVT-40	43 mm	28 mm







Spare Parts List

