

Vakuumpumpe BV

Betriebsanleitung / Ersatzteilliste
Operating instructions / Spare parts list

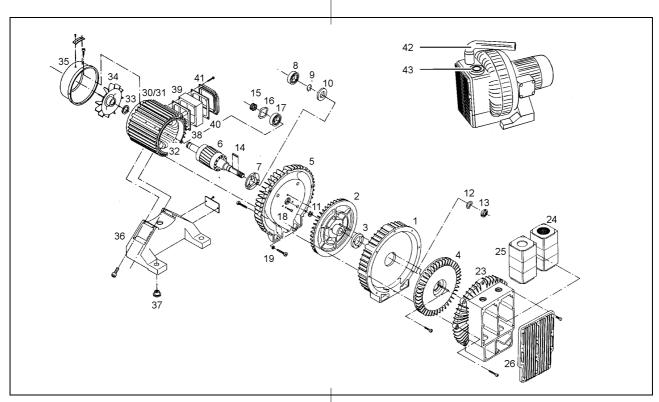


Fig. bv_etl1.tif

	Verdichterteile	Blower parts	HS-Nummer		Schalldämpfer	Silencer	HS-Nummer
1	Gebläsedeckel	Blower housing	0004-52435-26	23	Gebläsedeckel	Blower cover	
2	Laufrad	Impellor		24	Schalldämpfer	Silencer	
3	Zwischenscheibe	Connection disk		25	Schalldämpfer	Silencer	
4	Laufrad	Impellor		26	Schalldämpferdeckel	Silencer cover	
5	Gehäusedeckel	Housing cover					
6	Motorwelle	Motor shaft			Antrieb	Drive	
7	Lagerdeckel	Bearing cover		30	Motor kpl.	Motor cpl.	
8	Kugellager	Roller bearing		31	Motorgehäuse	Motor housing	
9	Sicherungsring	Security ring		32	Stator	Stator	
10	Wellendichtring	Shaft seal		33	Dichtring	Seal ring	
11	Distanzscheibe	Distance shim		34	Ventilator	Fan	0004-52435-34
12	Federscheibe	Spring shim		35	Schutzhaube	Fan cover	0004-52435-35
13	Wellenmutter	Shaft nut		36	Fuss	Foot	
14	Passfeder	Key		37	Fusspolster	Rubber foot	
15	Toleranzring	Tolerance ring		38	Dichtung	Gasket	
16	Ausgleichscheibe	Shim		39	Klemmkasten	Terminal bloc	
17	Kugellager	Roller bearing		40	Dichtung	Gasket	
18	Dichtring	Seal ring		41	Klemmkastendeckel	Terminal bloc cover	
19	Dichtring	Seal ring		NA	Kondensator	Capacitor	0004-52435-36
				42	Traggriff	Handle	0003-52312-01
				43	Storz Kupplung 1 1/4"	Coupling Size 1 1/4"	0901-32000-14

Fig. etl.doc



Dear customer

We are sure that you will have many years of trouble-free service from your HYDROSTRESS system and would be pleased to hear from you that it is working without any difficulties.

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CH-8330 Pfäffikon ZH	Telefax ++41 1 950 10 18		

0.1 Validity of this manual

This manual is only valid for the following system:

Vacuum pump BV type SKG250-2V

1 Safety instructions

1.1 Qualification of operating personnel

Operating personnel must be trained by experienced experts. HYDROSTRESS will be glad to assist you in your training efforts. Maintenance and repairs must only be performed by specially trained personnel.

1.2 Read the manual and inform your fellow workers!



This manual contains important information required to operate the machine safely and efficiently.

The owner of the machine must ensure that the instructions in this manual are followed by **any person having anything to do with the machine**. The manual must be **accessible on the job site** at all times.

1.3 Electrical hazards

- Stop working with the machine immediately if the cable, the mains plug, the electric motor or the ON/OFF switch are in any way defective.
- Only use earthed (grounded) sockets.
- Compare the supply voltage with the indications on the type plate.

1.4 Vacuum fixing of drill rigs



Follow these instructions to avoid loosening of the drill rig during machining and endangering yourself or others

- The holding load depends strongly on the surface of the structure. Holding load can be insufficient with coarse surfaces.
- Do not start drilling before having checked for sufficient stability by jerking the drill rig.
- Never fix the drill rig by means of vacuum only when drilling into walls. Always secure the drill rig using another device, for example, a brace.
- Do not drill overhead
- High feed pressure can loosen the drill rig. Center and crank extremely carefully with little pressure.

2 Range of application

2.1 Intended use

The vacuum pump is designed for vacuum fixing of concrete drilling rigs. Any other use can cause hazards which are not mentioned in this manual.

3 Technical data

Voltage 220 V / 50 Hz Current consumption 8.8 A

Power consumption 1.1 kW

Motor protection thermal overload switch

Noise level

at a distance of 1 m: approx. 75 dB(A)

Depression 0,3 bar

Flow rate 82 m3/h (0 bar)

Weight 27 kg

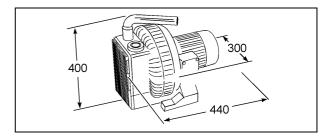


Fig. bv_ms.tif



3.1 Design

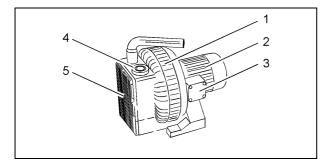


Fig. aufbau.tif

- 1) Impellor
- 2) Electric motor
- 3) Motor protection switch
- 4) Vacuum hose connection
- 5) Silencer

4 Starting the pump

- 1) Connect vacuum hose
- 2) Plug in mains

(The vacuum pump is running now)

5 Trouble shooting

Trouble	Cause	Remedy	
vacuum is insufficient, drill rig can not be fixed	vacuum sealing of the drill rig is not inserted correctly or it is damaged	insert vacuum sealing correctly and check for damage	
	impellors are soiled	disassemble pump and clean impellors	
	surface is not suitable for vacuum fixing	fix drill rig with dowel	
motor switches off	overload motor protection has disengaged	wait, until the motor starts to run again	

6 Maintenance

Yearly major servicing by HYDROSTRESS

7 Transport, placing out of service, storing, disposal

Transport

Protect the vacuum pump against damage during transport:

Do not place anything on or against the vacuum pump

Placing out of service and storage

If you plan to place the pump out of service for some time, clean it and store it in a dry place

Disposal

The system consists of the following materials: Steel, aluminum, copper, rubber, plexiglass, plastic

Consider the local regulations for disposal in your country.

8 Spare parts list

Vacuum hose 8m order no. 99ZU-32008-00 Vacuum plate for BY/BC order no. 99MK-52057-01

9 Spare parts list (see last page)

9.1 Ordering

The following information is required when ordering spare parts:

- Type of machine as shown on type plate (for example BV Nr. 4536)
- Stock number of spare part required according to spare parts list (for example 41 or 0004-52435-35)