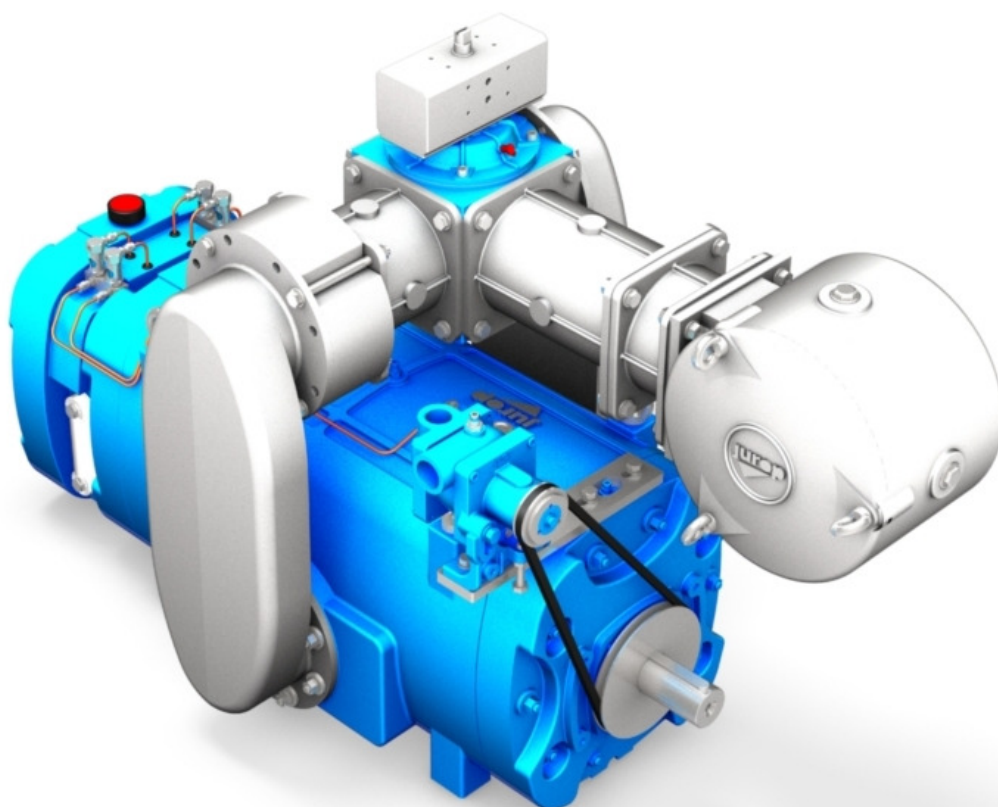
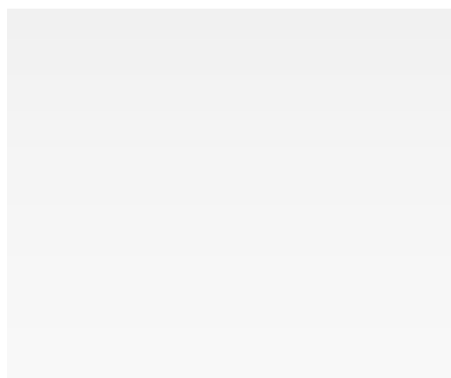




ORIGINAL INSTRUCTIONS



INSTALLATION, USE AND MAINTENANCE MANUAL



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

Introduction

Please follow carefully the instructions of the manual for a correct installation, use and

maintenance of your vacuum pump.

Important issues

Starting

Start off the pump slowly. Foreed engagement may cause damage to the transmission.

Stopping

Disengage the pump transmission before stopping the drive. Do not stop the engine while the pump is operating.

Operating

Do not block or alter the relief valves adjustment, in order to avoid damage or explosion.

Do not splash the pump with water or other liquid while the pump is running.

Keep the rotation speed withing the given limits. In case of any obstruction along the suction line stop the pump and remove the cause.

Do not adjust the flow by means of gate valves or relief valves which are not suitable for such purpose. The flow and the vacuum rate can be adjusted changing the speed of the pump.

Weekly maintenance

Suction filter

The pump must be stopped while cleaning the suction filter.

The filter can be cleaned using detergent liquid, and a high pressure jet of air.

Safety relief valve

Both pressure or vacuum relief valves must be cleaned and checked periodically

Not-return valve

In case of vibrations the check valve must be replaced.

We suggest that expert personnel check the pump once a year. Wear parts must be replaced within three years.

The pump must be installed according to local safety requirements in the countries of the comun marret according to standard n° **2006/42** CEE.

Contents

1	Dimensions and performances	4	Maintenance of the vacuum pump
2	Installation	4.1	Lubrication
2.1	Initial check	4.2	Performance control
2.2	Protection of the inlet port	4.3	Temperature of the cooling liquid
2.3	Protection against intake of liquids	4.4	Intake of liquids
2.4	Non-return check valve	4.5	Checking of the wear of the vanes
2.5	4 way valve	4.6	Replacement of the vanes
2.6	Exhauster	4.7	Cleaning of filter
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2.8	Cooling of the pump	5	Spare parts list
2.9	Pressure relief valve	5.1	How to order the spare parts
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3	Running of the pump	5.3	Spare parts list of PR 530
3.1-3.6	Check of the start-off and running of the pump		

■ Pompa per vuoto/compressore. Serie PR.

Le pompe per vuoto a palette della serie PR sono state studiate con lo scopo di ottimizzare il percorso dell'aria ottenendo rendimenti volumetrici elevati ed un funzionamento estremamente silenzioso.

Campo di impiego

- Macchine per aspirazione di rifiuti liquidi e polveri.
- Impianti fissi di produzione vuoto.
- Impianti di trasporto pneumatico.

Azionamento

- Col motore del veicolo mediante trasmissione meccanica.
- Con motore ausiliario.
- Con trasmissione idraulica.

Nota: su richiesta il senso di rotazione può essere destro o sinistro.

Raffreddamento e lubrificazione

- Raffreddamento ad acqua a circolazione naturale o forzata con pompa di ricircolo esterna.
- Lubrificazione delle parti in movimento con pompa a pistoncini e serbatoio olio incorporati.

■ Vacuum pumps/compressors. Type PR.

Sliding vanes pumps type PR have been designed optimizing the air flow inside the pump to obtain high volumetric efficiency and extremely silent running.

Application

- Sludge and slurry suction vehicles. Dusty materials with suitable suction filter.
- Vacuum plants.
- Pneumatic transport installations.

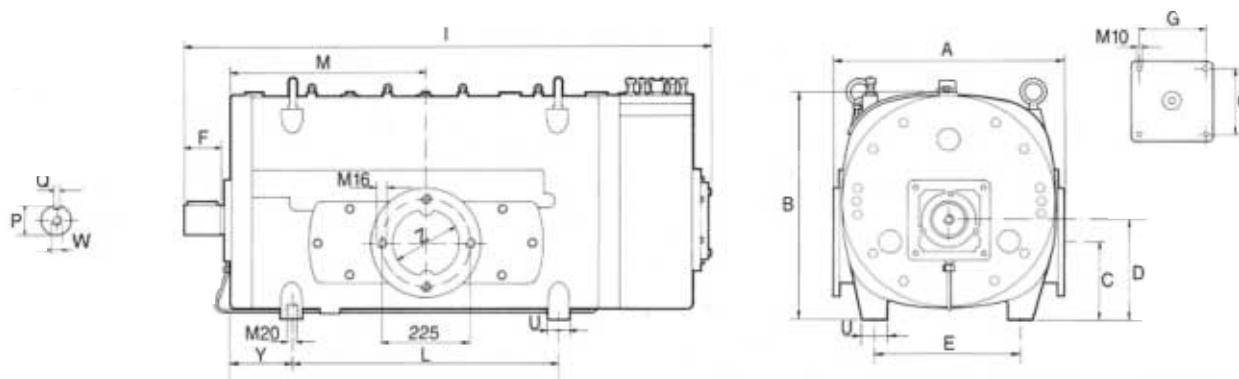
Drive

- By vehicle engine with mechanical transmission.
- With auxiliary engine, electric motor, etc.
- Hydrostatic drive.

Note: The pumps are delivered for right or left rotation upon request.

Cooling and lubrication

- Cooling is obtained by thermosiphon water circulation inside the jacket or by forced circulation with external pump.
- Automatic oil lubrication of the moving parts with a piston pump driven by the rotor. High capacity oil tank with level sightglass.



Dimensioni in mm · Dimensions mm

Mod.	A	B	C	D	E	F	G	I	L	M	P	Q	U	Z	Y	W
PR330	545	495	170	234	300	95	130	1090	500	510	55	16	60	150	265	M14
PR530	690	570	185	255	355	110	150	1340	650	630	70	20	70	165	308	M16

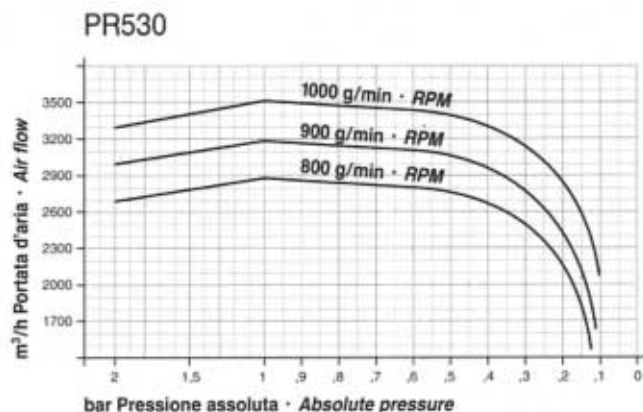
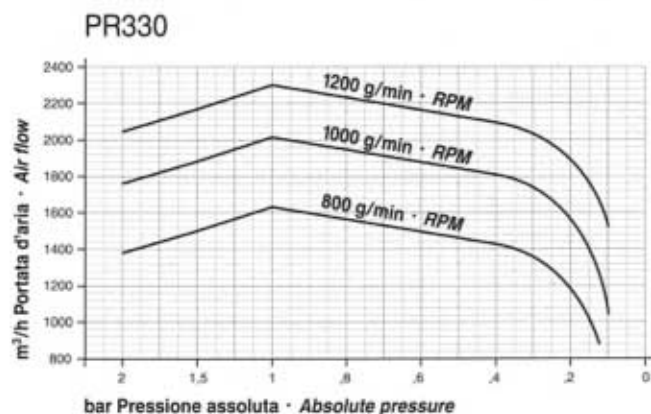
Prestazioni · Performances

Mod.	PR330	PR530
Velocità consigliata · Suggested speed	RPM	1000
Portata aria a bocca libera · Air flow free air	m ³ /h	2000
Portata aria a 400 mbar/60% vuoto · Air flow at 400 mbar/60% vacuum	m ³ /h	1780
Vuoto massimo · Maximum vacuum	%	95
Vuoto massimo in servizio continuo · Max vacuum continuous duty	%	80
Potenza assorbita a 0,5 bar rel. (1,5 assol.) · Power required at 0,5 bar rel. (1,5 abs.)	kW	60
Pressione max rel. (assol.) · Maximum operating rel. pressure (absolute)	bar	1 (2)
Rumorosità a 60% di vuoto a 7 m. · Sound pressure level at 7 m and 60% vacuum	dBA	77
Peso · Weight	kg.	605
Consumo olio · Oil consumption	g/h	280
Capacità serbatoio olio · Oil tank capacity	l.	17
Momento d'inerzia · Mass moment of inertia	Kg/m ²	2,45
Potenza termica dissipata · Heat to be dissipated	Kcal/°	25.000
Portata pompa di ricircolo l/min. · Circulating pump flow rate	l/min.	120

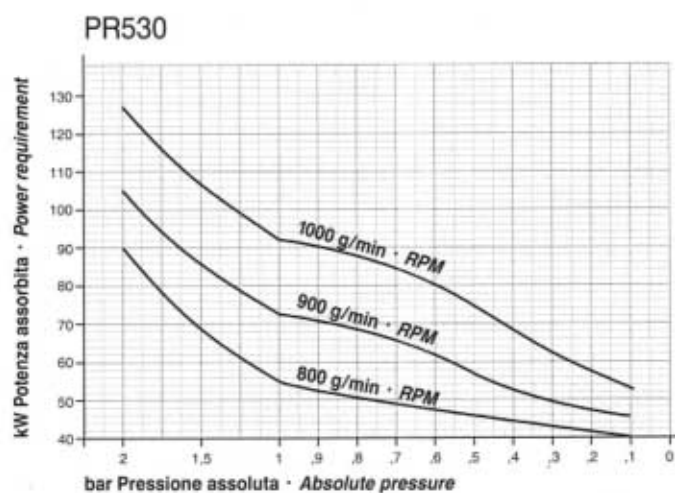
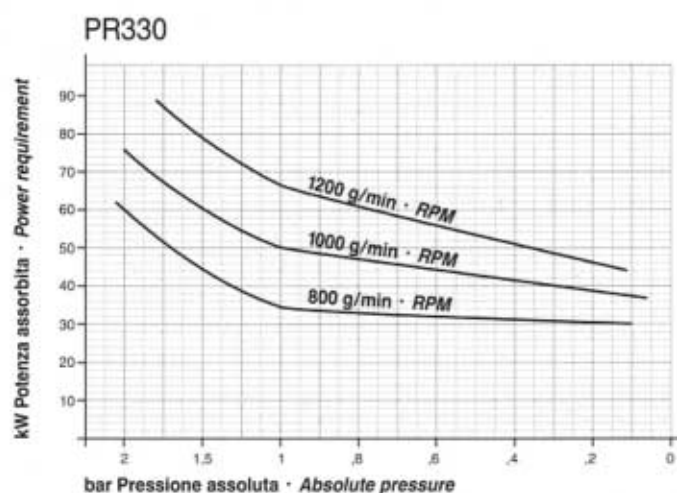
Lubrificazione · Lubrication

Marca	ENI	ESSO	SHELL	TOTAL	MOBIL	BP
Estate · Summer	ISO VG 150	Radula 150	Nuto 150	Morlina Oil 150	Drosera MS 150	Nuto H 150
Inverno · Winter	SAE 10W	Diesel Sigma S 10W20	Hydraulic 10W	Rimula X Oil 10W	Rubia S 10W	Delvac 10W
						Vanellus 10W

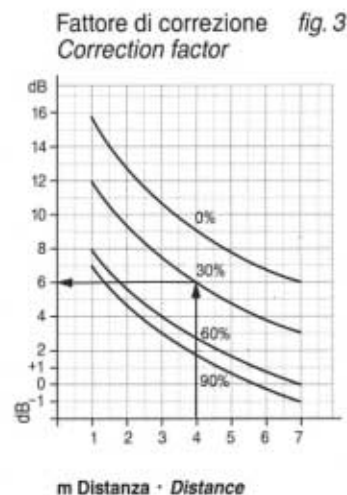
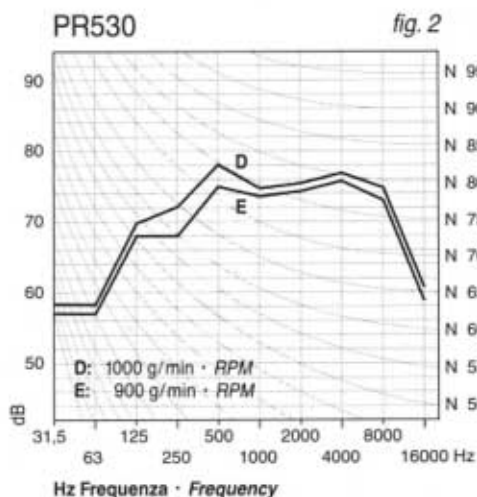
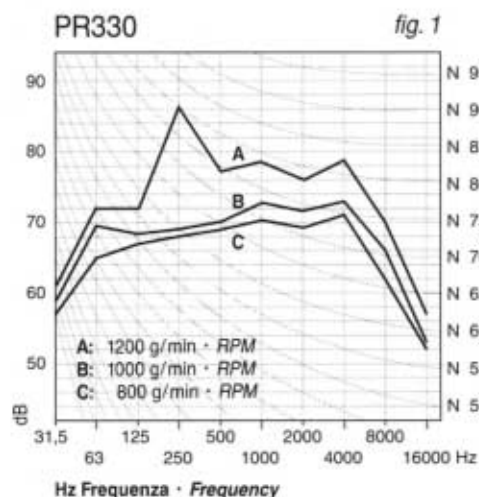
Portata/pressione • Flow rate/pressure



Potenza/pressione • Power/pressure



Rumore • Sound pressure level



■ Il diagramma *fig. 1 e 2* riporta lo spettro del rumore a 456 mm Hg (60% di vuoto) a 7 m di distanza a diversi regimi di rotazione. In tali condizioni il valore di riferimento è:

PR330	800 g/min	74 dBA	PR530	900 g/min	79 dBA
	1000 g/min	77 dBA		1000 g/min	81 dBA
	1200 g/min	82 dBA			

Per avere il valore del rumore a distanze e/o gradi di vuoto diversi sommare al valore di riferimento il fattore di correzione (*fig. 3*).

Esempio: PR330 a 800 g/min, 30% di vuoto e 4 m.: $74 + 6 = 80$ dBA.

■ The diagrams *fig. 1 and 2* show the sound analysis of PR vacuum pumps measured at 456 mm Hg (60% vacuum) at 7 m distance for several speed of rotation. In such conditions the reference value is:

PR330	800 RPM	74 dBA	PR530	900 RPM	79 dBA
	1000 RPM	77 dBA		1000 RPM	81 dBA
	1200 RPM	82 dBA			

To get the medium sound level at different distances and/or vacuum rates add the correction factor from *fig. 3* to the reference value.

Example: PR330 at 800 RPM, 30% vacuum and 4 m.: $74 + 6 = 80$ dBA.

2 Installation

2.1 Initial check

Upon receiving the pump, check if it has been damaged during the delivery.

Positioning

The pump must be placed on the vehicle so that it can be easily reached for maintenance.

Drive and alignment

The pump can be driven either by cardan shaft, belts and pulley or hydraulic motor. The cardan shaft must be mounted so that it does not create axial thrust and a flexible joint must be used; the inclination of the shaft must not exceed 15°.

When using the belts and pulley, the pulley can be mounted directly on the rotor shaft. (see fig. 2-3). The alignment between the pulley of the pump and the driving pulley must be thoroughly checked. The V-belts tension must be normal, that means the belts must flex for about 2 cm under the thumb pressure.

With the hydraulic transmission the motor must be mounted by means of a support and a flexible joint. (See fig. 1).

When mounting the pump on a vehicle, it must be fixed to the chassis by a suitable stand.

Check that the rotation is the same shown on the pump.

The rubber pipelines of the vacuum line must be of oil and corrosion-resistant material.

Before connecting the pipeline be sure that the inside is clean. A tap must be placed on the lowest part of the suction connection in order to drain the condensation.

When first running the pump, or after a long period

of inactivity, or after operating in a dusty environment the pump must be washed out. (See par. 4.4).

Note. This operation must last not more than 30". If necessary repeat such operation after 10".

2.2 Protection of the inlet port

In order to avoid solid parts to enter the pump a filter with stainless steel mesh of 400 micron filtration capacity must be mounted on the suction line just in front of the inlet port in an accessible position.

2.3 Protection against intake of liquids

In order to avoid the intake of liquids, the pump must be protected by a primary shutoff mounted on top of the tank and a secondary shutoff mounted along the suction line both with an overfloating device. (See fig. 1 - Pos. 1-2).

2.4 Non-return check valve

A non-return check valve must be placed along the suction line in between the pump and the 4 way valve. Be sure that such valve opens according to the flow direction.

2.5 4 way valve

If the 4 way change-over valve is driven by a pneumatic cylinder, the stroke must be exactly adjusted, so that the valve cock stops at the exact position, at the end of the stroke.

2.6 Exhauster

The noise made by the pump must be reduced by a silencer placed along the discharge line, as close as possible to the outlet of the pump. (See fig. 1-2-3 Pos. 4).

2.7 Oil separator

It catches the discharged oil used for lubricating the vanes.

It is generally incorporated in the exhauster and is c/w a draining tap. (See fig. 1-2-3 Pos. 4).

2.8 Cooling of the pump

The cooling system consists of a centrifugal recycling pump with hydraulic or mechanical drive, of a heat exchanger c/w fans suitable for dissipating the heat generated by the system and of an expansion tank.

The temperature of the cooling media must not exceed 60° C. The heat exchanger must be placed so that the air can stream freely. The use of antifreeze glicole is suggested.

2.9 Pressure relief valve

A pressure relief valve capable of discharging the whole flow of air of the pump must be placed in between the tank and the vacuum pump. The valve must be adjusted at a discharge pressure not more than 10% higher than the operating pressure of the vacuum pump and anyhow not higher than the operating pressure of the tank.

2.10 Vacuum relief valve

The vacuum relief valve has the function of keeping the operating vacuum rate below than planned as the maximum for the tank and the system. The installation of such valve is not strictly needed for the running of the pump, but if the vacuum relief valve is not mounted, make sure that the cooling system is properly dimensioned. Upon reaching the adjusted vacuum rate, the valve opens allowing the pump to intake atmospheric air. The valve must be placed along the suction line.

PR330-530 VACUUM LINE AND COOLING SYSTEM Installation layout

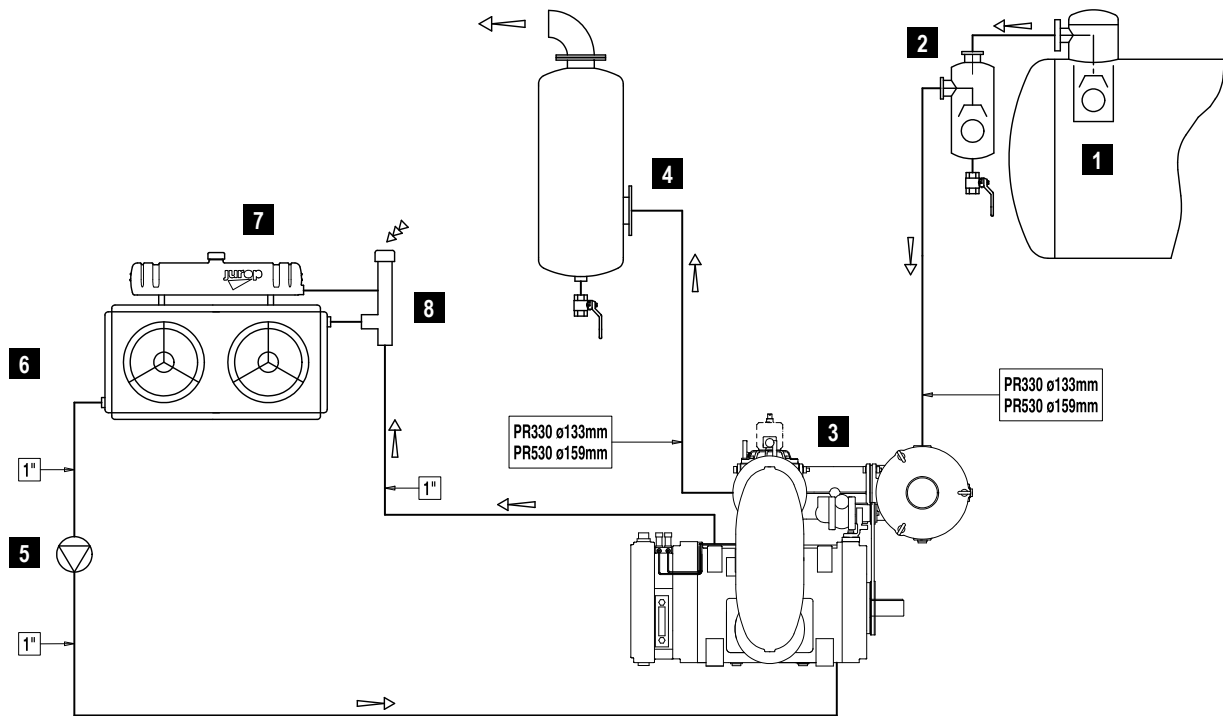


Fig. 1

Pos.	Model	Code	Description	Pos.	Model	Code	Description
1	PR330	18450.028.10	Primary shutoff (Mild steel)	4	PR330	15470.017.00	Silencer/Oil separator (Mild steel)
		18450.026.10	Primary shutoff (Stainless steel)			15470.020.00	Silencer/Oil separator (Stain. steel)
	PR530	18450.037.10	Primary shutoff (Mild steel)		PR530	15470.KY2.B0	Silencer/Oil separator (Mild steel)
		18450.031.10	Primary shutoff (Stainless steel)			15470.KWU.B0	Silencer/Oil separator (Stain. steel)
2	PR330	14450.016.00	Secondary shutoff (Mild steel)	5	PR330	-	Circulating pump
		14450.015.00	Secondary shutoff (Stainless steel)		PR530	4024.2007.00	Circulating pump
	PR530	14450.023.00	Secondary shutoff (Mild steel)	6	PR330	4021.5010.01	Air-water heat exchanger (24V)
		14450.017.00	Secondary shutoff (Stainless steel)			4021.5010.03	Air-water heat exchanger (12V)
3	PR330	18521.014.00	Filter suction unit (Right - Pneumatic)		PR530	4024.2055.13	HDR motor
		18521.019.00	Filter suction unit (Left - Pneumatic)	7	PR330-530	18920.8Y6.C0	Expansion tank
		18521.028.00	Filter suction unit (Right - Manual)	8	PR330-530	18820.045.E0	Exchanger inlet port
		18521.029.00	Filter suction unit (Left - Manual)				

PR330-530 V-BELTS AND PULLEY TRANSMISSION Installation layout

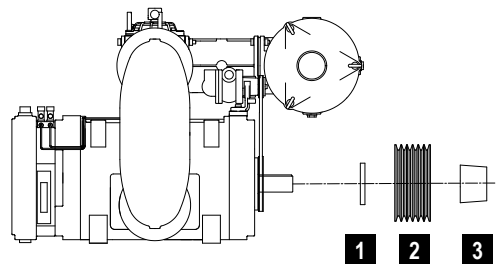


Fig. 2

Pos.	Model	Code	Description	Pos.	Model	Code	Description
1	PR330	16240.194.00	Spacer	3	PR330	4025.4260.24	Taper bush
2	PR330	4025.4264.92	Pulley Dp=250 6xSPB		PR530	4025.4250.11	Taper bush
	PR530	4025.4240.09	Pulley Dp=355 6xSPC				

PR330 HYDRAULIC DRIVE

Installation layout

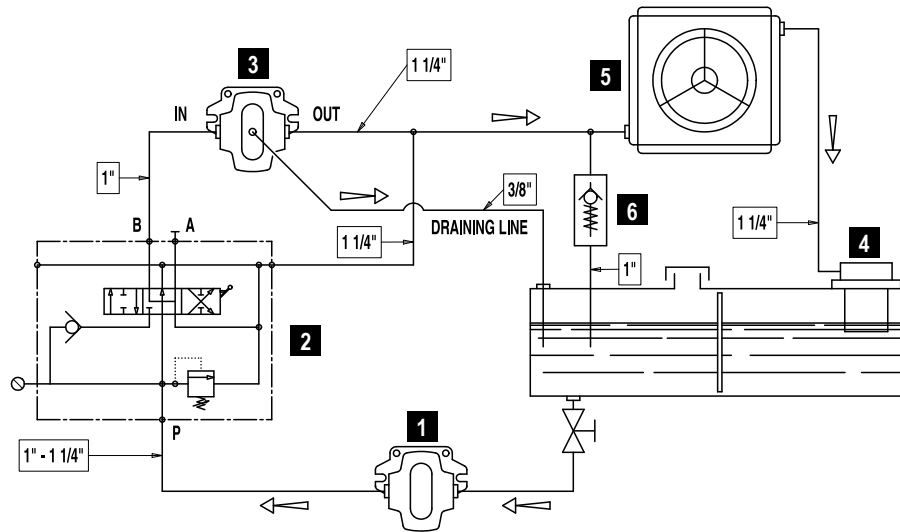


Fig. 3

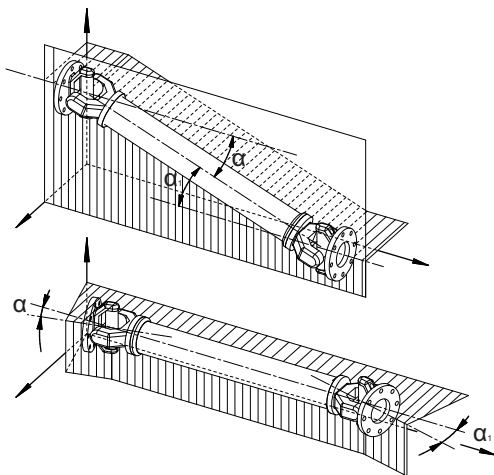
Pos.	Code	Description
1	-	HDR pump
2	4024.3040.00	Distributor
	4024.3020.05	Distributor (High pressure)
3	4024.1070.07	HDR motor
	4024.1077.04	HDR motor (High pressure)

Pos.	Code	Description
4	4022.3040.12	Oil filter
	4022.314C.00	Oil filter (High pressure)
5	4021.5010.26	Heat exchanger
6	4024.4212.06	Safety valve 1" (3 bar)

Model	Displacement	Operating pressure (Max. vac.)	Flow	Max pressure draining line	Max. pressure motor exhaust	Max pressure
PR330	150 cc/rev	180 bar	155 l/min (1100rpm)	5 bar	5 bar	180 bar
	110 cc/rev	280 bar	125 l/min (1100rpm)	5 bar	5 bar	400 bar

CARDAN SHAFT DRIVE

- Use telescopic cardan shafts.

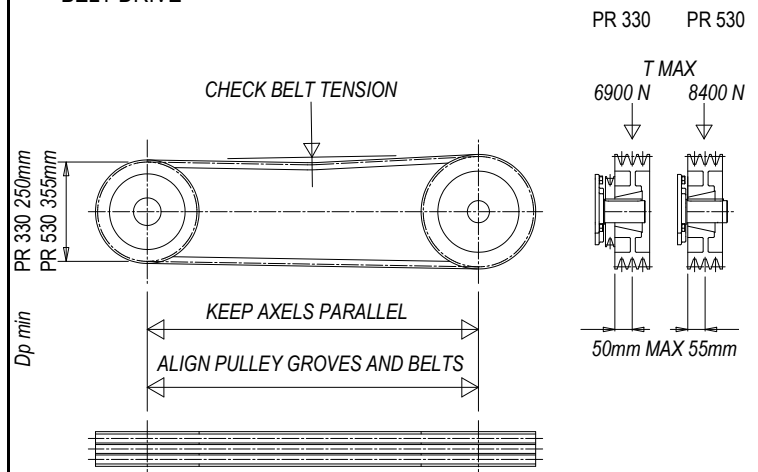


• In order to achieve a uniform motion of the driven shaft, the following requirements must be met:

- Equal working angle α and α_1 of both couplings;
- The internal fork joints must be coplanar;
- Both driven and driving shafts must be coplanar.

• It is also recommended working with limited articulated joint angles (max 15°) and disengaging the transmission for those operations requiring great angles (steering or lifting).

BELT DRIVE



• Install a suitable pulley on the smooth shaft as close as possible to the pump: PR330 Max 50 mm; PR530 Max 55 mm.

• Apply an adequate belt tension. Max 6900N (PR330) and 8400N (PR530).

• Do not use driven or driving pulleys with a pitch diameter inferior to 250mm (PR330) and 355mm (PR530). Small pulleys require a high belt tension which may cause premature wear to the bearing or transmission troubleshooting.

• A limited speed ratio allows a longer belts life while reducing stress on the shafts.

3 First running of the system

Legend:

- 1 Oil filling tap
- 2 Oil sight glass and access flange
- 3 Oil tank drain
- 4 Water filling tap
- 5 Vent of pump housing and flanges
- 6 Draining tap of end flanges
- 7 Draining tap of pump housing
- 8 Cooling liquid inlet
- 9 Vanes inspection port
- 10 Cooling liquid outlet
- 11 Oil tank

Attention:

The suction line and the vacuum tank must be provided with safety valves. To alter the adjustment of such valves may cause serious damage or danger of explosion.

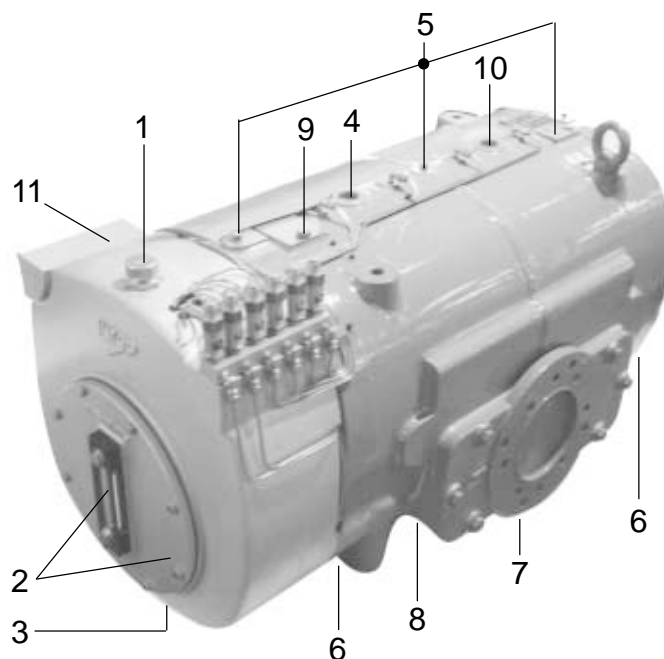


FIG. 4

- 3.1 Fill the oil tank up to about 3 cm. below the filling tap - Pos. 1 - Fig. 4.
For the selection of the lubricating oil see Pag. 2.

- 3.2 After releasing the vent taps Pos. 5 - Fig. 4 overflow the pump housing with the cooling media through the tap of Pos. 4 - Fig. 4.
Fill up the heat exchanger through the taps shown at point A of the installing layouts of Pag. 5-6.
The expansion tank must be half filled, checking through the sight glass.
Screw on all the filling taps and vents.
The whole cooling system as shown has an approximate capacity of 50 l. for the PR 330 and 90 l. for the PR 530.
During the wintertime antifreeze glycol must be added in the following percentages:
20% down to minus 10° C
35% down to minus 20° C
50% down to minus 30° C

- 3.3 Open all the valves of the vacuum system.
- 3.4 Run the pump for a few seconds, checking the correct rotation.
- 3.5 With the pump running check the following:
- a) The oil must drip inside the oilers.
25÷30 drops per minute at the suggested pump speed
 - b) The rate of vacuum and pressure.
 - c) Water should overflow through taps of Pos. 5 - Fig. 4.

- 3.6 **Adjustment of the oil flow of the lubricating pump.**

The oil pump must have the same rotation of the vacuum pump. When asking for spare parts specify the exact rotation. (c/w - cc/w)

The oil pump is adjusted during the assembling of the vacuum pump.

For the flow please see the performance chart at Pag. 2.

In case of field adjustment of the oil flow see the following instructions:

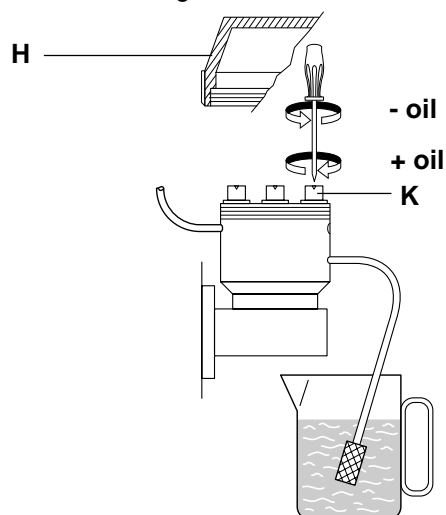


FIG. 5

- a) Screw of the filling and draining taps of Pos. 1-3 - Fig. 4.
- b) Unscrew the 8 screws fixing the access flange of the oil tank Pos. 2 Fig. 4.
- c) Take of the protection cap "H" of fig. 5
- d) With a short screw driver screw or unscrew the plug "K" of Fig. 5.
- e) Reset everything and fill up with oil.

4 Maintenance of the vacuum pump

4.1 Lubrication

Check time by time through the sight glass of the drip oilers that the drops of oil flow regularly. If this does not happen stop the pump immediately and check the oil level and the oil pump. **Drain daily the oil from the exauster/oil separator. Do not re-use such oil.**

If the vacuum pump happens to run without lubrication it will heat up and could consequently be damaged.

4.2 Performance control

Check every day the vacuum rate of the pump. If it does not reach the nominal value, it means that there could be wear of inside parts. Proceed immediately with the measure of the vanes wear and with a thorough cleaning of the inside of the vacuum pump. (see points 4.4 and 4.5).

4.3 Temperature of the cooling liquid

The temperature of the cooling liquid should never exceed 60°C. If this happens check the whole cooling system and the operating of the vacuum pump.

4.3 Intake of liquids

In case of malfunction of the primary or secondary shutoff some liquid could flow from the tank into the vacuum pump. In this case the pump must be washed out. This operation must last not more than 30". If necessary repeat such operation after 10'. Such operation must be carried out only on cooled pumps.

1. Disconnect the exhaust silencer, if possible;
2. Start running the pump at low speed;
3. Suck some water (about 1-2 litres) through the inlet port;
4. Then suck oil (about 1 litre) to complete the wash-up and lubricate internal components. In case the exhaust line cannot be disconnected, drain the liquids accumulated in the separator of the exhaust silencer.

4.4 Checking of the wear of the vanes

The wear of the vanes can be checked without taking apart the pump. Unscrew the plug Pos. 9 Fig. 4 and insert a rod of dia. 8 mm. and turn the shaft by hand. With the checking rod touching the outside diameter of the rotor, mark it a first time with a scribe (The rod is supplied with the pump). Continue turning the shaft till the checking rod falls inside a vane groove touching the vane. Mark the rod a second time. If the distance between the two marks exceeds 10 mm. the vanes must be replaced. (see Fig. 6). Once finished the checking procedure replace the plug Pos. 9.

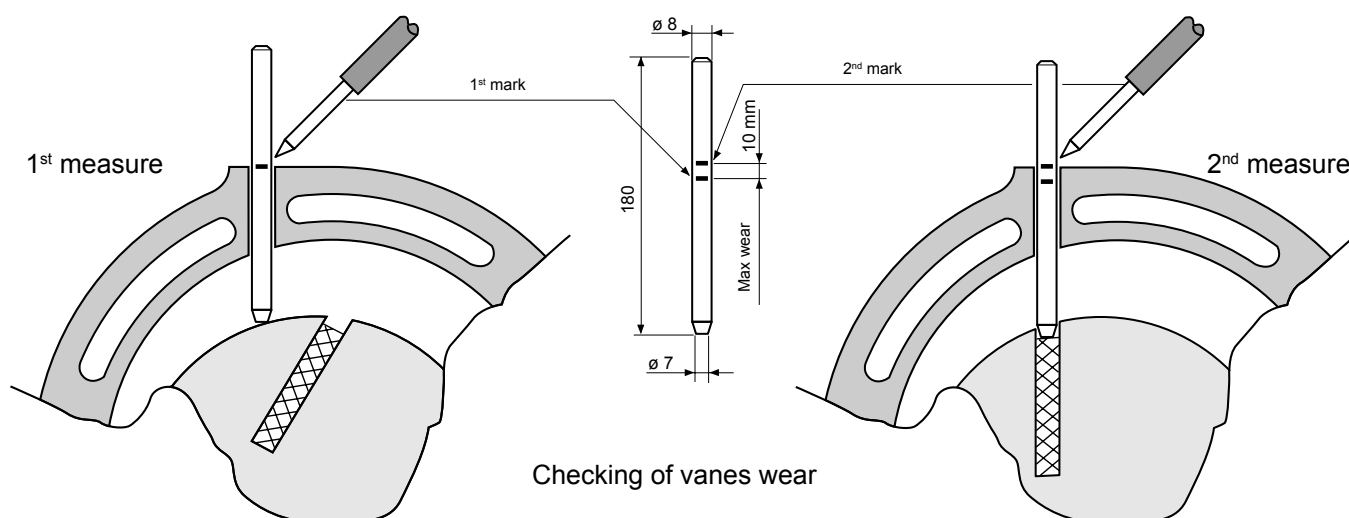


FIG. 6

4.6 Replacement of the vanes

When replacing the vanes proceed as following: (fig. 7)

- Drain the cooling liquid from the pump housing (Pos. 7-Fig. 4) and from the front flange Pos. 15.
- Disconnect the lubrication pipeline Pos. 72.
- Pull out the key Pos. 69.
- Take off the n. 2 screws Pos. 52 and the pins Pos. 67.
- Unscrew all the remaining screws Pos. 46 and take off the flange Pos. 15.
- Pull out the vanes Pos. 3 and clean the grooves of the rotors.
- Replace the vanes and lubricate them thoroughly.
- Replace the gaskets Pos. 31 and the o-ring Pos. 40 on the rotor shaft.
- Assemble all the parts taking care to lubricate all the gaskets and the bearing.
- Refill the cooling system as shown at Pag. 7-Paragraph 3.2.

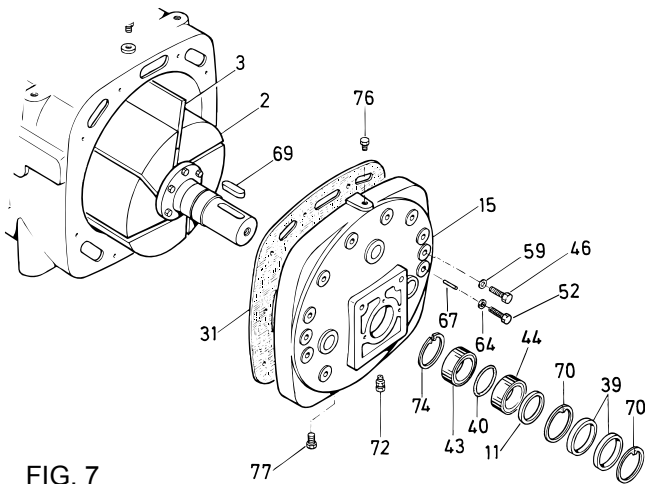


FIG. 7

4.7 Cleaning of suction filter

For weekly maintenance or in case of intake of liquid operate as follows (fig. 8):

- Remove the filtering cartridge
- Clean with detergent and with a jet of air.
- When replacing the lid take care of the exact positioning of the o-ring gasket

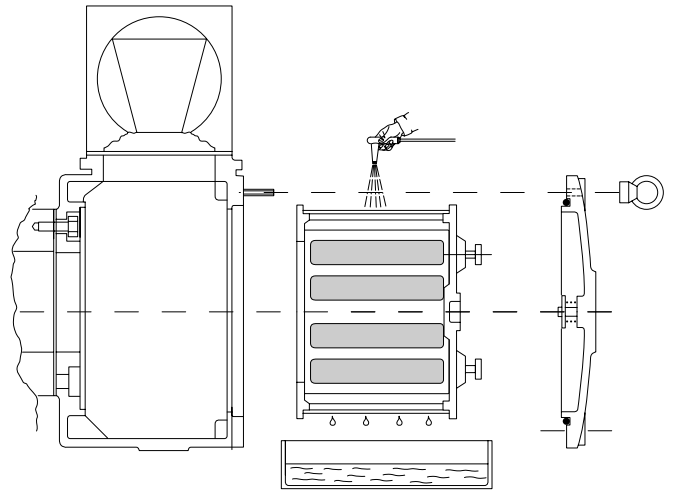


FIG. 8

4.8 Preliminary maintenance

Operation	Daily	Weekly	Quarter
Oil level checking	●		
Pressure and vacuum checking	●		
Pressure relief valve control		●	
Cooling media temperature control	●		
Cleaning of suction filter		● And liquid intake	
Wear of vanes			●

5 Spare parts list

5.1 How to order the spare parts

To avoid mistakes when ordering the spare parts make sure you indicate:

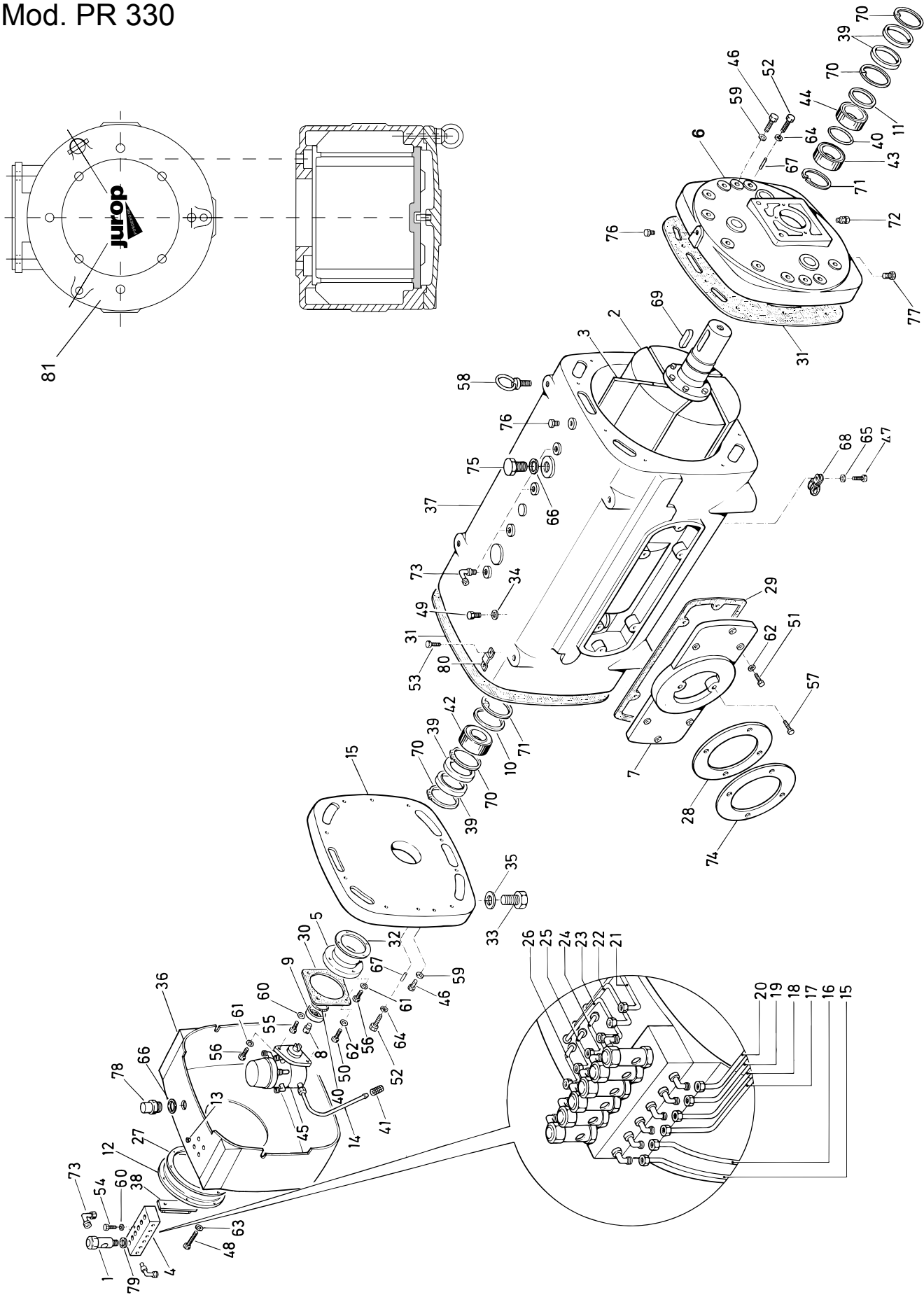
- | | | |
|---|--------------------------------|------------------------|
| a | The model of the pump. | } See pump label |
| b | The serial number of the pump. | |
| c | The denomination of the part. | } See spare parts list |
| d | The number of pieces. | |
| e | The code of the part. | |

Example:

- | | |
|---|--------------|
| a | PR 330 |
| b | X 30013 |
| c | Rotor vane |
| d | N. 6 pieces |
| e | 16016.030.00 |

5.2 Part list

Mod. PR 330



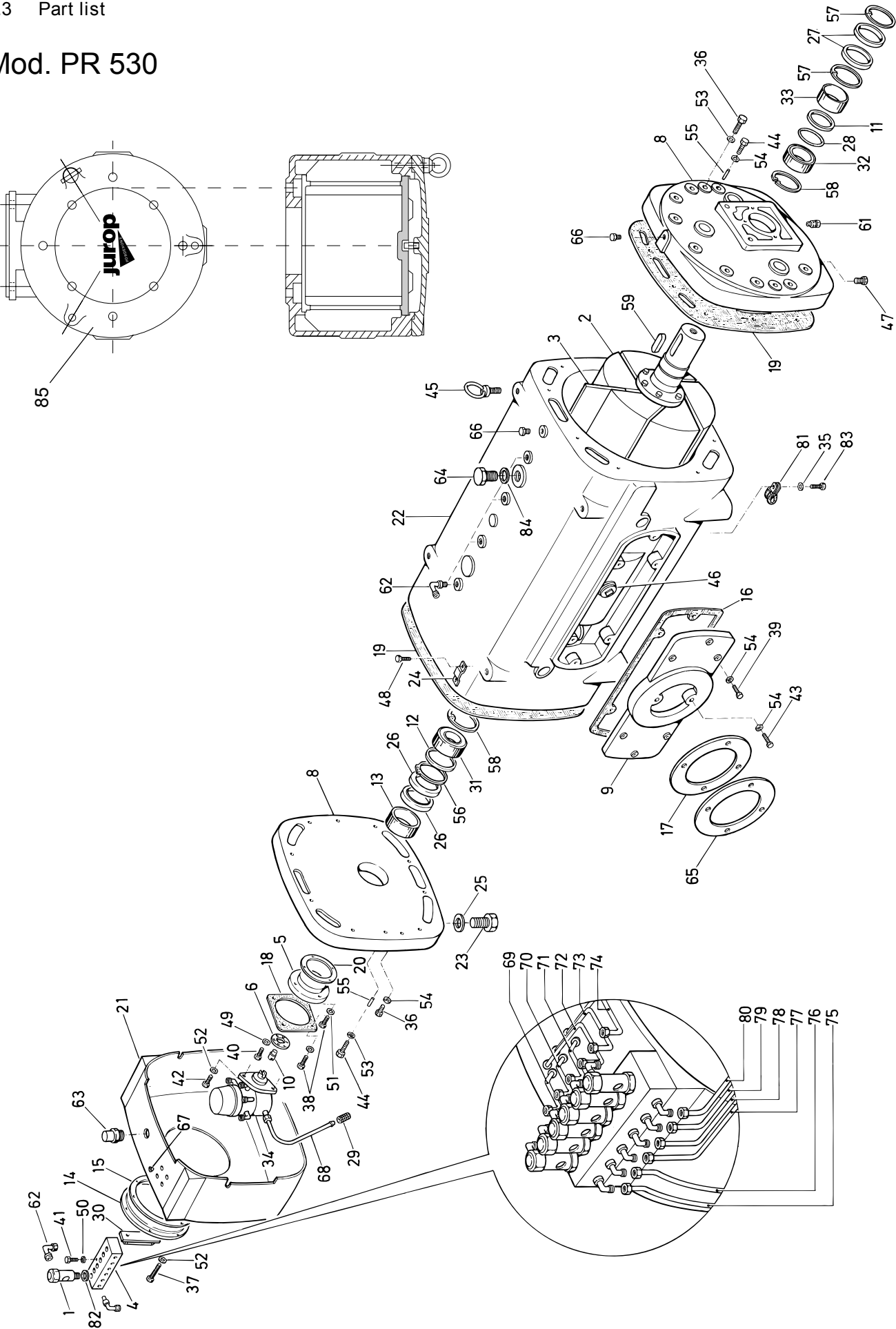
Mod. PR 330



POS.	CODE	DESCRIPTION	NR.	POS.	CODE	DESCRIPTION	NR.
1	14012-007-00	DRIP OILER	6	81	14450.032.00	SUCTION FILTER	1
2	15215-030-00	ROTOR	1				
3	16016-038-00	VANE	6				
4	16081-005-00	OIL BLOCK	1				
5	16100-108-00	OIL PUMP FLANGE	1				
6	16105-051-00	END FLANGE	2				
7	16105-052-00	IN/OUTLET FLANGE	2				
8	16220-041-00	PIVOT	1				
9	16240-096-00	PIVOT BUSHING	1				
10	16240-097-00	SPACER DIA. 100	1				
11	16240-103-00	SPACER DIA. 65	1				
12	16401-004-00	OIL TANK LID	1				
13	16426-000-00	PIPELINE RUBBER PROTECTION	6				
14	16630-197-00	OIL SUCTION LINE	1				
15	16630-227-00	FRONT FLANGE OIL LINE	1				
16	16630-228-00	REAR FLANGE OIL LINE	1				
17	16630-229-00	HOUSING OIL LINE	1				
18	16630-230-00	HOUSING OIL LINE	1				
19	16630-231-00	HOUSING OIL LINE	1				
20	16630-232-00	HOUSING OIL LINE	1				
21	16630-233-00	DRIP OILER INLET LINE	1				
22	16630-234-00	DRIP OILER INLET LINE	1				
23	16630-235-00	DRIP OILER INLET LINE	1				
24	16630-236-00	DRIP OILER INLET LINE	1				
25	16630-237-00	DRIP OILER INLET LINE	1				
26	16630-238-00	DRIP OILER INLET LINE	1				
* 27	16806-039-00	LID GASKET	1				
* 28	16806-050-00	IN/OUTLET ROUND GASKET	2				
* 29	16806-059-00	IN/OUTLET SQUARE GASKET	2				
* 30	16806-064-00	OIL TANK SUPPORT GASKET.	1				
* 31	16807-053-00	HOUSING GASKET	2				
* 32	16807-054-00	OIL PUMP SUPPORT GASKET	1				
33	16840-000-00	3/8" PLUG	1				
34	16851-001-00	WASHER DIA. 10	1				
35	16851-002-00	WASHER 3/8"	1				
36	16871-007-00	OIL TANK	1				
37	16875-036-00	HOUSING	1				
38	4022-1060-01	OIL LEVEL	1				
* 39	4022-2000-72	SEAL RING 90X65X10	4				
* 40	4022-2002-12	OR 2162	2				
41	4022-3000-01	OIL SUCTION FILTER DIA. 6	1				
42	4023-1000-60	BEARING 6211	1				
43	4023-1100-70	BEARING NU 2211 ECP	1				
44	4023-1300-50	BUSHING DIA. 65X55X28	1				
45	4024-2520-02	OIL PUMP 6 WAYS	1				
46	4026-1006-13	SCREW M12X90	20				
47	4026-1013-01	SCREW M6X10	1				
48	4026-1014-09	SCREW M8X25	8				
49	4026-1072-06	SCREW M10X16	1				
50	4026-1073-12	SCREW M12X35	4				
51	4026-1073-13	SCREW M12X40	12				
52	4026-1075-14	SCREW M16X40	8				
53	4026-1201-00	SCREW M4X8	4				
54	4026-1204-05	SCREW M6X25	3				
55	4026-1203-03	SCREW M6X20	2				
56	4026-1204-02	SCREW M8X18	5				
57	4026-1206-09	SCREW M12X30	8				
58	4026-1900-03	EYEBOLT M20	2				
59	4026-3506-09	WASHER DIA. 12	20				
60	4026-3509-08	WASHER DIA. 6	5				
61	4026-3509-09	WASHER DIA. 8	5				
62	4026-3509-11	WASHER DIA. 12	12				
63	4026-3515-05	WASHER DIA. 8	8				
64	4026-3561-09	WASHER DIA. 16	8				
65	4026-3570-03	WASHER DIA. 6	1				
66	4026-3590-01	WASHER 1"	9				
67	4026-4020-12	PIN DIA. 14X60	4				
68	4026-4267-03	CLIP DIA. 6	1				
69	4026-5012-12	TAB 16X10X110	1				
70	4026-5105-47	CIRCLIP DIA. 90	4				
71	4026-5105-51	CIRCLIP DIA. 100	2				
72	4026-7020-00	STRAIGHT CONNECTION 4X1/8"	8				
73	4026-7060-00	90° CONNECTION 4X1/8"	16				
74	4026-7130-09	FLANGE	2				
75	4026-9040-03	PLUG 1"	8				
76	4026-9043-00	VENT 1/4"	3				
77	4026-9050-02	PLUG 1/4"	2				
78	4026-9100-04	OIL FILLING PLUG	1				
79	16851-000-00	WASHER 1/4"	6				
80	16820-008-00	BLOCKING CLIP	2				
* 80	18920.003.00	GASKET KIT	1				

5.3 Part list

Mod. PR 530



Mod. PR 530



POS.	CODE	DESCRIPTION	NR.	POS.	CODE	DESCRIPTION	NR.
1	14012-007-00	DRIP OILER	6	85	14450.032.00	SUCTION FILTER	1
2	15215-029-00	ROTOR	1				
3	16016-039-00	VANE	6				
4	16081-004-00	OIL BLOCK	1				
5	16100-071-00	OIL PUMP FLANGE	1				
6	16100-07200	PIVOT FLANGE	1				
8	16105-045-00	END FLANGE	2				
9	16105-046-00	IN/OUTLET FLANGE	2				
10	16220-041-00	PIVOT	1				
11	16240-077-00	SPACER 82x70x6	1				
12	16240-078-00	SPACER 82x70x3,5	1				
13	4023-1300-48	BUSHING 63x55x25	1				
14	16401-004-00	OIL TANK LID	1				
* 15	16806-039-00	LID GASKET	1				
* 16	16806-049-00	IN/OUTLET SQUARE GASKET	2				
* 17	16806-050-00	IN/OUTLET ROUND GASKET	2				
* 18	16806-051-00	OIL TANK SUPPORT GASKET	1				
* 19	16807-047-00	HOUSING GASKET	2				
* 20	16807-048-00	OIL PUMP SUPPORT GASKET	1				
21	16871-005-00	OIL TANK	1				
22	16875-031-00	HOUSING	1				
23	16840-000-00	3/8" PLUG	1				
24	16820-008-00	BLOCKING CLIP	1				
25	16851-002-00	WASHER DIA. 17	1				
* 26	4022-2000-68	SEAL RING 85x63x10	2				
* 27	4022-2000-80	SEAL RING 100x80x10	2				
* 28	4022-2002-25	O.RING 3237	2				
29	4022-3000-01	OIL SUCTION FILTER DIA. 6	1				
30	4022-1060-01	OIL LEVEL	1				
31	4023-1000-78	BEARING 2214 NUP ECP	1				
32	4023-1100-95	BEARING Nu 2214 ECP	1				
33	4023-1300-63	BUSHING 80x70x35	1				
34	4024-2520-02	OIL PUMP 6 WAYS	1				
35	4026-3570-03	FLAT WASHER DIA. 6,2	1				
36	4026-1006-14	SCREW M12x100	20				
37	4026-1014-09	SCREW M8x25	8				
38	4026-1072-12	SCREW M10x35	7				
39	4026-1073-15	SCREW M12x50	12				
40	4026-1202-04	SCREW M5x16	4				
41	4026-1203-03	SCREW M6x20	3				
42	4026-1204-03	SCREW M8x20	2				
43	4026-1206-09	SCREW M12x30	4				
44	4026-1075-14	SCREW 16x40	4				
45	4026-1900-03	EYEBOLT M20	4				
46	4026-7009-08	PLUG 1"	2				
47	4026-9050-02	PLUG 1/4"	1				
48	4026-1201-00	SCREW TC M4x8	2				
49	4026-3509-07	WASHER DIA. 5	4				
50	4026-3509-08	WASHER DIA. 6	7				
51	4026-3509-10	WASHER DIA. 10	3				
52	4026-3515-05	WASHER DIA. 8	10				
53	4026-3561-09	WASHER DIA. 16	4				
54	4026-3509-11	WASHER DIA. 12	36				
55	4026-4020-12	PIN DIA. 14x60	4				
56	4026-5100-44	CIRCLIP DIA. 70	1				
57	4026-5105-51	CIRCLIP DIA. 100	2				
58	4026-5105-59	CIRCLIP DIA. 125	2				
59	4026-5014-05	TAB 20x12x100	1				
61	4026-7020-00	STRAIGHT CONNECTION 4x1/8"	1				
62	4026-7060-00	90° CONNECTION 4x1/8" 90	23				
63	4026-9100-04	OIL FILLING PLUG 1"	1				
64	4026-9105-05	PLUG 1"	12				
65	4026-7130-09	FLANGE DN 150	2				
66	4026-9043-00	VENT 1/4"	5				
67	16426-000-00	PIPELINE RUBBER PROTECTION	6				
68	16630-197-00	OIL SUCTION LINE	1				
69	16630-204-00	DRIP OILER INLET LINE 1	1				
70	16630-205-00	DRIP OILER INLET LINE 2	1				
71	16630-206-00	DRIP OILER INLET LINE 3	1				
72	16630-207-00	DRIP OILER INLET LINE 4	1				
73	16630-208-00	DRIP OILER INLET LINE 5	1				
74	16630-209-00	DRIP OILER INLET LINE 6	1				
75	16630-210-00	FRONT FLANGE OIL LINE	1				
76	16630-211-00	REAR FLANGE OIL LINE	1				
77	16630-212-00	HOUSING OIL LINE	1				
78	16630-213-00	HOUSING OIL LINE	1				
79	16630-214-00	HOUSING OIL LINE	1				
80	16630-215-00	HOUSING OIL LINE	1				
81	4026-4267-03	CLIP DIA. 6	1				
82	16851-000-00	WASHER DIA. 15	6				
83	4026-1013-01	SCREW M 6 X 10	1				
84	4026-3590-01	WASHER 1"	1				
* 18920.005.00	GASKET KIT		1				

Model	Issue date	Revision No.	Revision date	Filled out by	Viewed by
PR 330-530	01-01-2002	06	09-09-2015	U.T.	A.T.

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Juop SpA reserves the right to modify the products described in this manual without prior notice.