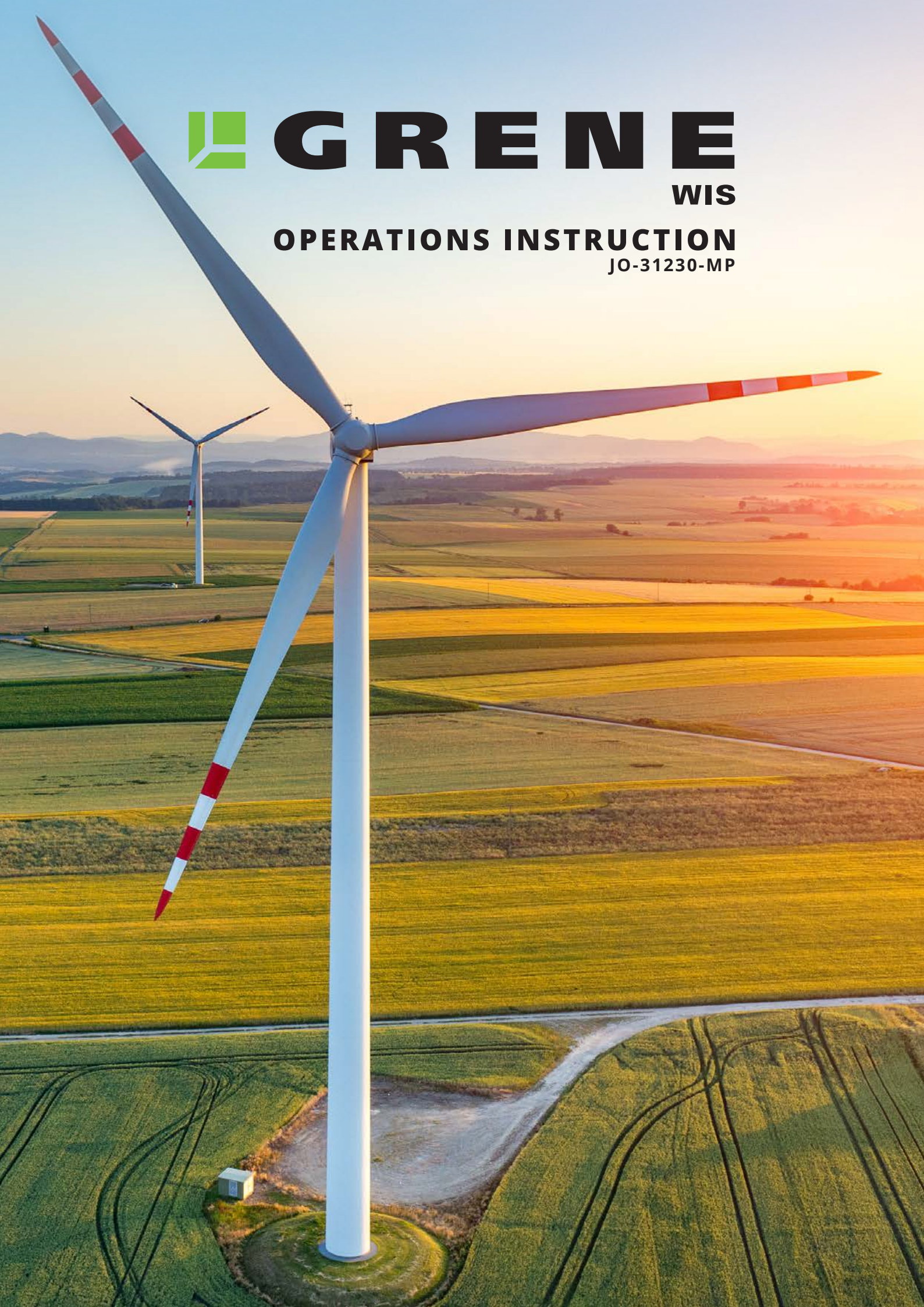

GRENE

WIS

OPERATIONS INSTRUCTION

JO-31230-MP

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GRENE WIND INDUSTRY SUPPLIES A/S

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Tlf: +45 86 44 20 55

1. PRODUCT

The electric pump system is designed for use primarily with tensioner equipment. The pump system has been optimized to safely break loose, or fully tighten, to pre-determined parameters, any application within a minimal time frame.

To ensure safe operation, do not connect equipment which is **not designed for a working pressure of 1.500 bar.**

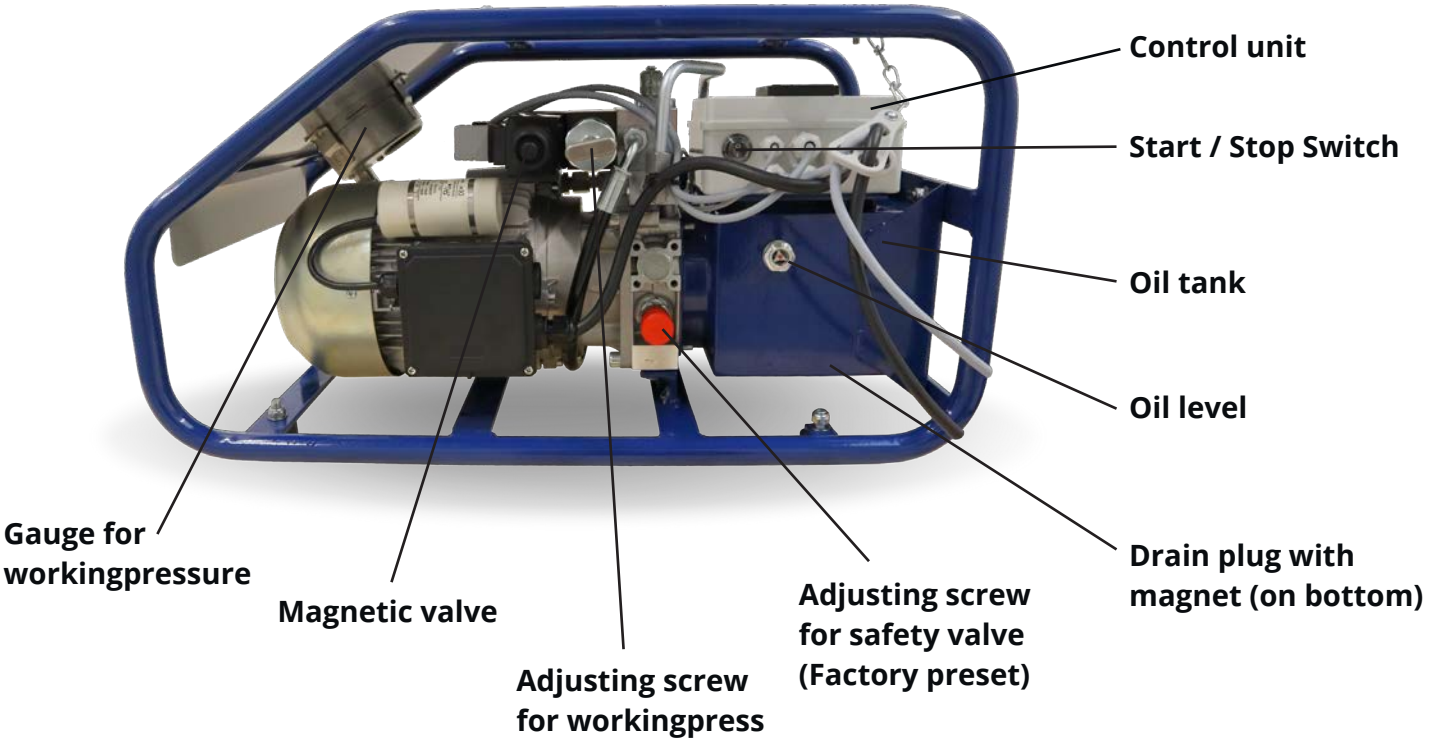
To secure safe operation, connected hydraulic hoses must be provided with safetyhose.

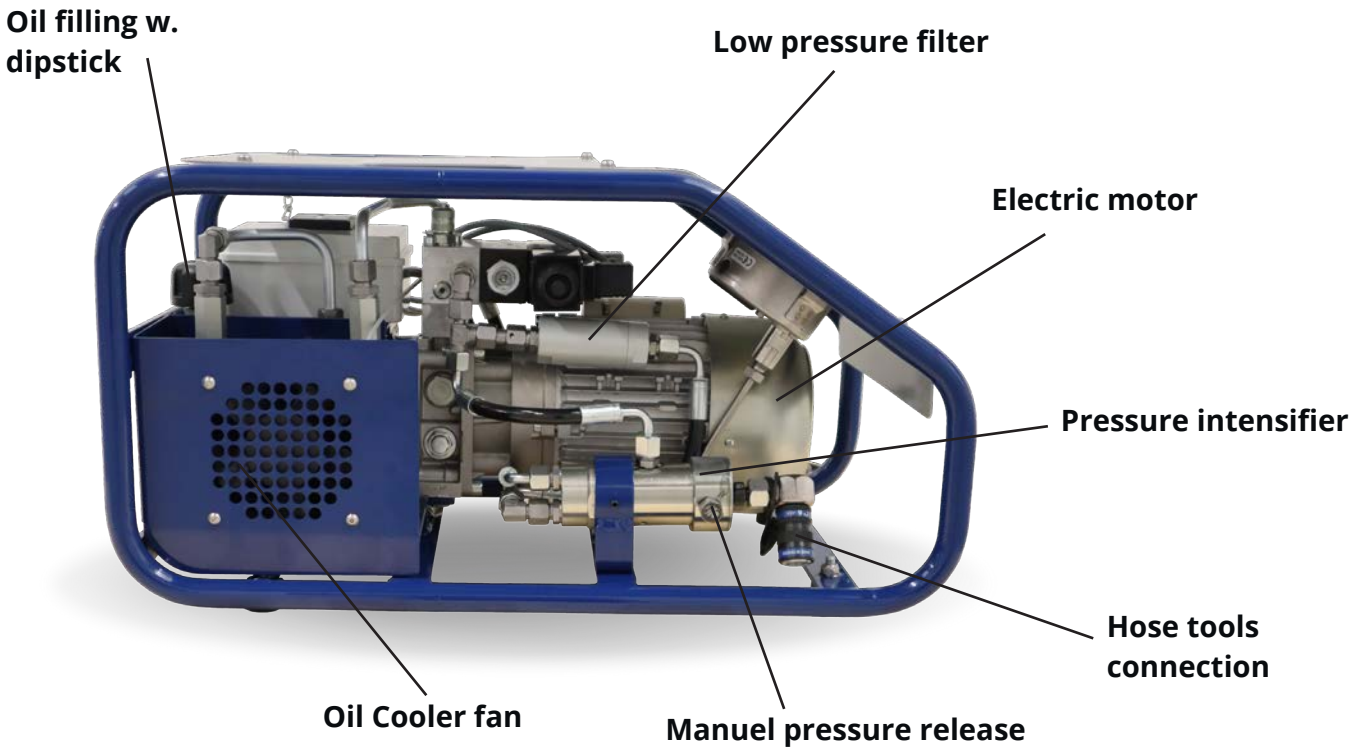
2. TECHNICAL SPECIFICATIONS

Power Supply:	230 volt AC, 50 Hz - grounded
Motor:	1,1 kW, 230 volt AC, 50 Hz The electrical motor is protected by a thermo switch, which will stop the pump if the temperature in the motor exceeds 130°C.
Control unit:	Consists of a 230 volt AC part, which powers the motor and the magnetic valves, and a 24 volt DC part, which powers the remote control pendant and cooling fan.
Pump:	Maximum pressure: 1.500 bar
Power consumption:	Max. 8 Amp
Tank capacity:	3,51.
Hydraulic oil quality:	ISO VG 32
Dimensions:	L x W x H [mm]: 665 x 370 x 340
Weight:	35 kg.
Noise level:	Below 70 dB(A)

3. MAIN COMPONENTS

The main components of the pump are illustrated in the picture below.





4. SAFETY

Read all instruction, warnings, and cautions carefully. Follow all safety precautions to aid in avoiding personal injury or property damage during system operation.
Grene WIS cannot be held responsible for damage or injury resulting from unsafe product use, lack of maintenance or incorrect product and/or system operation.

Contact Grene WIS when in doubt as to the safety precautions and operations. Failure to comply with the following cautions and warnings could result in equipment damage and personal injury.

Gloves and safety glasses must be worn when using this equipment.

System must be at zero pressure before disconnecting couplers. Check integrity of connections before applying any hydraulic pressure.

Do not unscrew any nipples, couplers or fittings under hydraulic pressure.

Ensure pump is located on a safe and secure flat surface. 30 degress from horizontal max.

Avoid sharp bends and kinks when routing the hydraulic hoses.

When the system is under pressure **DO NOT STAND IN LINE** with the direction of the force of the fastener being tightened.

This is danger area. Keep this area clear of personnel at all times!

Never leave the system unattended when under pressure.

Ensure all calibration certificates and documentation is valid.

⚠ Do not handle pressurized hydraulic hoses.

⚠ Only use hydraulic hoses and fittings pressure rated to this system.

⚠ To help prevent pump failure, check reservoir fluid prior to operation.

⚠ Any hoses, couplers or fittings connected to this system must be clean and free from contamination.

⚠ Do not stand in line with un-connected fittings or hoses.

5. STARTING THE PUMP

Before starting the pump:

Connect tools, check tank oil level, check power supply and thereafter connect the pump to the power supply.

If the oil sight glass is filled or the surface is visible in the top of the oil glass the oil level is OK.
If not, the oil level has to be checked with the oil stick in the filling plug - The surface must be approx. 30 mm below the top of the tank.

Main switch pressed down 1 –> The system is powered on.

The pendant has 3 buttons.

Red Button: Turn clockwise (see arrow) to start the pump. Press the button to stop the pump.

The black button with a white up-arrow: Push until the preset pressure is reached.

The black button with a black down-arrow: Push this –> Pressure is released / system is released.

6. SETTING THE WORKING PRESSURE

Adjustment is done using the pendant and the adjustment screw (see picture).

1: Start the pump using the pendant and press the black button with a white up-arrow until the preset pressure is reached.

2: If required working pressure must be higher than the set pressure, increase the pressure by turning the **adjustment screw** clockwise while pressing the black button to build up pressure.

3: If the pressure should be lower, the pressure must be released by pressing the white button - the **adjustment screw** is then turned counterclockwise to set a low pressure.
Then press the black button to build up pressure while turning the adjustment screw clockwise until the desired pressure is reached.

7. MAINTENANCE

GENERAL:
The pump is designed to work steady and secure with a minimum of maintenance. Maintenance of the pump is still important, since up to 80% of all errors are due to contamination or lack of maintenance.
The pump should only be used and stored in a dry and safe area.

DAILY / WHEN USING:

Hydraulic Connections:
Check that connections are clean and free of dirt before connecting devices.
All hydraulic connections must be checked for leakage, damage, etc. Parts that are leaking or have other damages must immediately be replaced. Use gloves when working with hydraulic oil.

Electrical connections and wiring:
All electrical connections must be checked for defects or damages.
If errors or damages exist, it must be repaired before the pump is being operated.

Note: Only qualified personnel should replace electrical parts, cables, etc.

Oil level:
Oil level should be checked daily / when in use.
If the oil level is low refill with the same quality - see the technical specifications.

Oil quality:
If the oil in the glass is dark this indicates that the oil has been too hot and should be replaced. When replacing or refilling, use the same oil quality - see technical specification.

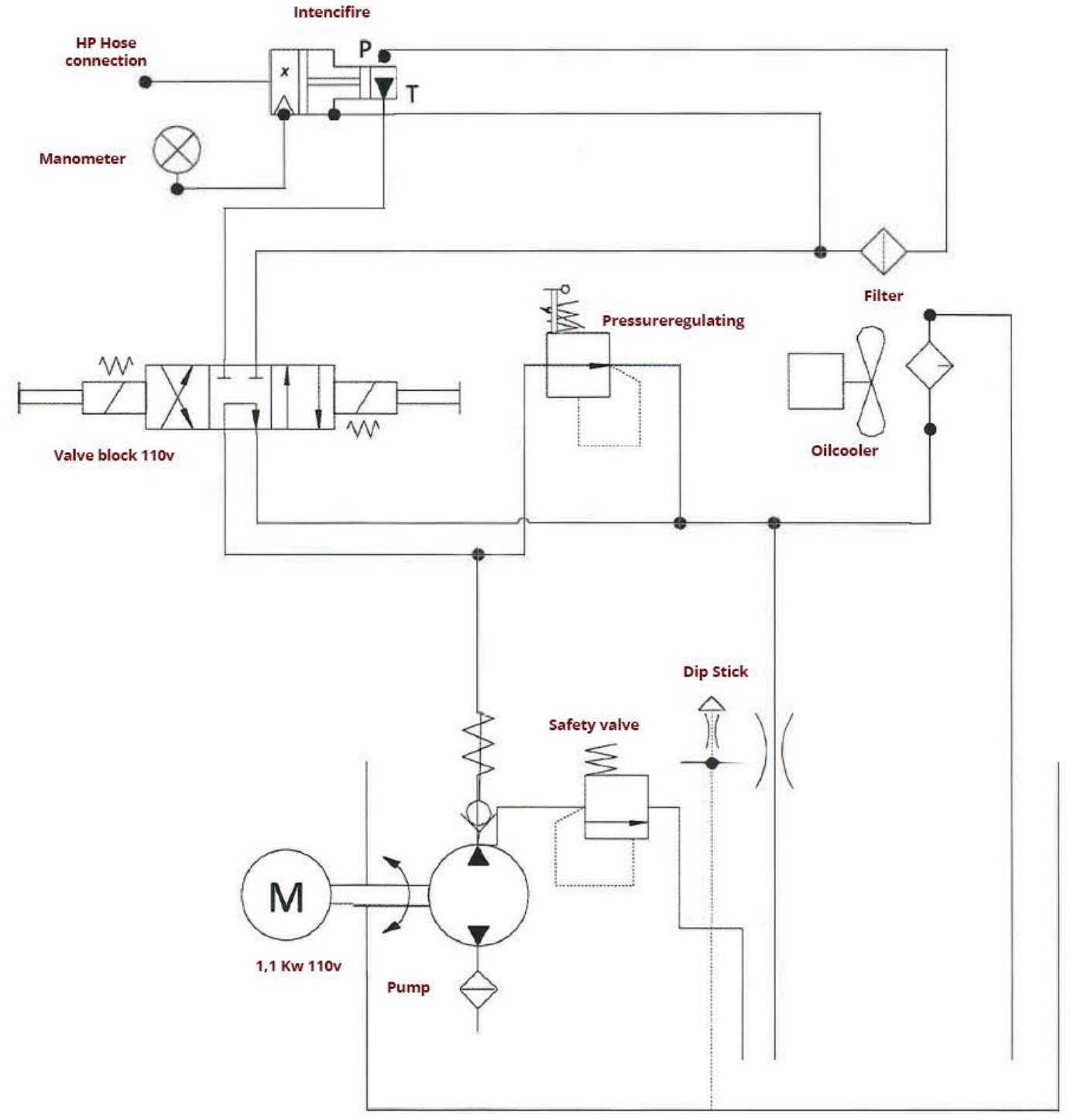
8. ROUTINE MAINTENANCE

Hydraulic oil change depending on usage - at least once every year.

Low pressure filter:

The filter should be replaced after 100 hours - or less if needed. The filter is marked with IN for input and OUT for output.

9. HYDRAULIC DIAGRAM



SPARE PARTS

By any requisitioning of spare parts, the information from the name plate should be provided to ensure proper delivery. The name plate is placed on the front of the hydraulic pump and looks like the example below.

Model:	JO-xxxxxx
Serie nr.	xx/xx-xxx
Max. tryk	1500 Bar
El-tilslutning	XXX/Vxxxx
Produceret (md-år)	xx-xxxx
CE	**GRENE WIS** Tinvej 2 8940 Randers SV +45 86 44 20 55

11. DECLARATION OF CONFORMITY

CE- Declaration

In accordance with the provisions of the Directive of the Council no. 98/37/E.E.C., Enclosure Ii A.

Manufacturer:

Grene Wis
Tinvej 2
8940 Randers,
Danmark

Phone +45 86 44 20 55

Hereby declares that

The machine:

Hydraulic PumpJO-31230

Is produced in accordance with the foliowing directives and harmonized standards:

- Machine Directive 2006/42/EU
- Low Voltage Directive 2014/35/EU

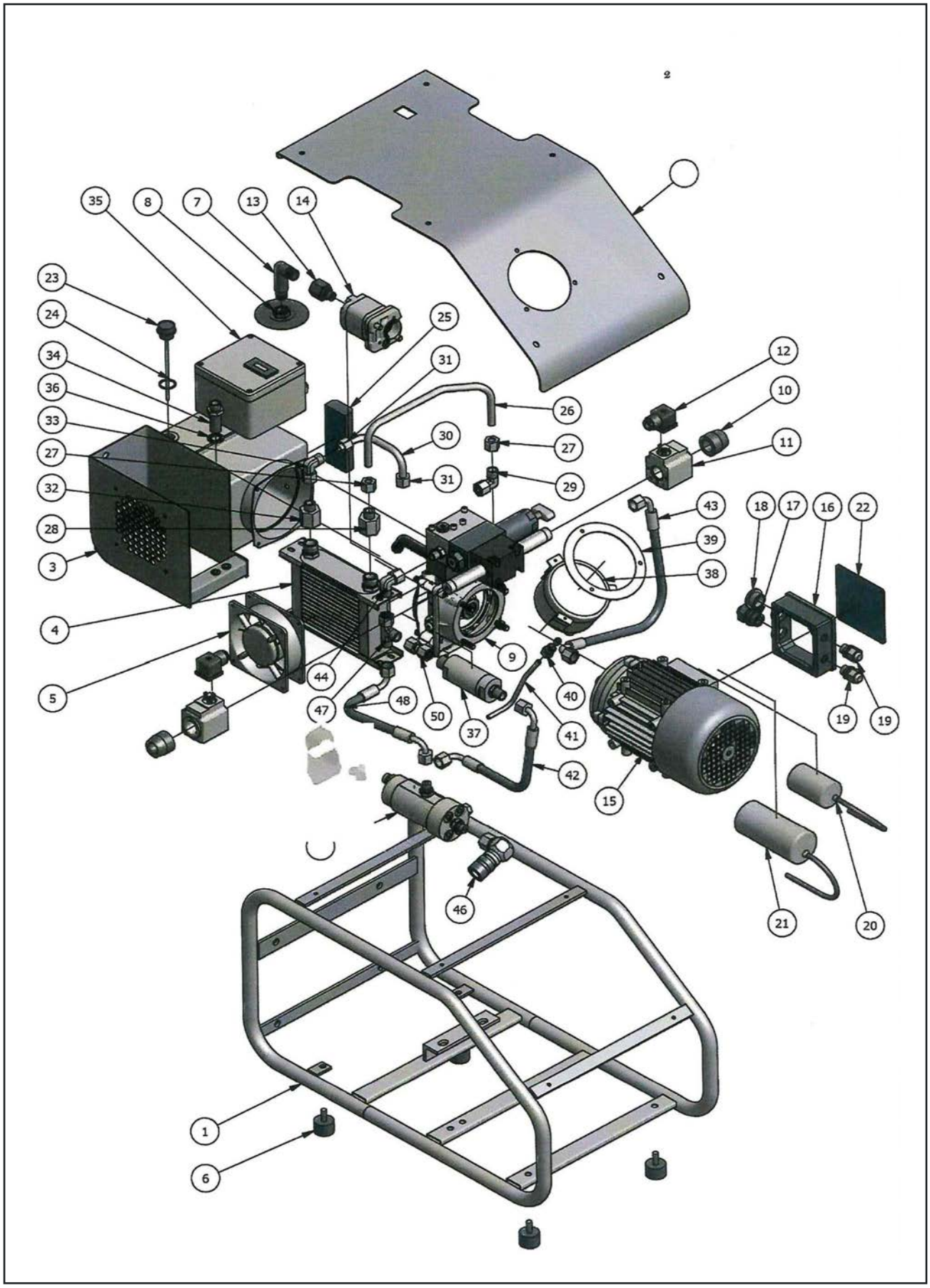
Ryomgård, the 17-03-2016

Signiture:

Name of signing person **Christian Hansen**

Title of the signing person. **General Manager**

GRENE WIS
J-060508 - Pumpe komplet
REVISION: 4 April 2021



GRENE WIS
0030VT186964 - Pumpe komplet
REVISION: 18 February 2021

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	0070J30050704	Steel Frame
2	1	0070J060508S	Aluminium front cover
3	1	600-T-007-02	Tank 7 ltr. Customized Design
4	1	0070DT68A0001	Oil cooler
5	1	00709294310211	Cooling fan for oil cooler
6	4	0070514011200041	Vibration absorber feet for frame
7	1	0070M83800013	Elbov 3/8" x 3/8" Plastic
8	1	007049138900	Suction filter 3/8 x d80
9	1	100128821	Motor mounting Kit ”N” 90
10	1	0070DT0119334	Rubber cover CM control DS3
11	1	0070DT1902833	Coil C20 DS3 230V 50/60Hz
12	1	100128840	Valve Plug DIN 43650 Grey / Valve Plug DIN 43650 Grey
13	1	100128855	Not available
14	1	0070DT17050007009	Gear pump 2,2cc Hydr-app (G)
15	1	0070DT090S14PB14AR	Motor 1,1 kW 1390 B14a /no start capacitor
16	1	00301001106R	Complete Terminal box for motor 1,1kW incl. gasket
17	1	00301001106R	Comes with terminal box for motor 1,1kW. Pos 16
18	1	00301001106R	Comes with terminal box for motor 1,1kW. Pos 16
19	1	00301001106R	Comes with terminal box for motor 1,1kW. Pos 16
20	1	Not available	Start Capacitor for old model
21	1	0070RPC245035KP	Operation capacitor 35 uf
22	1	00301001106R	Lid for terminal box comes with complete terminal box for motor 1,1kW. Pos 16
23	1	003050G3L03A0P01	Tank filter 3my
24	1		Comes with tank filter 3my. Pos 23
25	1	Not available	LMA 38 3/8" oil Indicator
26	1	ROR-O10-02	Pipe Special "long"
27	2	0004102100	Nut 10L M16x1,5
28	1	APMFG0654	Coupler Male/Fem.3/8"-3/8" BSP
29	1	0070DT1158132000	Adjustable 90 angle fitting
30	1	ROR-O10-01	Pipe Special "short"

31	2	0004102100	Nut 10L M16x1,5
32	1	APMFG0654	Coupler Male/Fem.3/8"-3/8" BSP
33	1	1158132000	Adjustable angle fitting 10L DKO U.O
34	1	0137102066	Straight bulkhead 10L wo/n
35	1	0070DASTYRING1	Control Box
36	1	BS-06	Bonded seals 3/8"
37	1	0070FIL5210	Inline Filter
38	1	0070STJO322GL	Manometer 0-2000 Bar
39	1	0070STJO322GL	Come with manometer 0-2000 Bar.
40	2		Come with Hydraulic pipe f.manometer komplet
41	1	0070186964ROR MANO	Hydraulic pipe f.manometer komplet
42	1	0070DTSLANGESET3	Hydraulic Hose set
43	1	0070DTSLANGESET3	Hydraulic Hose set
44	2	0070DT1158132000	Adjustable 90 angle fitting
45	1	0070J060508F	Bracket for Intensifier
46	1	0070C101161250	Coubling.90°SWIVEL 1/4" FEM
47	1	0070DT0162132007	T fittings
48	1	0070DTSLANGESET3	Hydraulic Hose set
49	1	0070MP2000XP100	Intensifier
50	1	0070DT1178022000	Straight connector 10L female DKO

CONTACT US

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