

USER MANUAL

EPP56-1VE HYDRAULIC POWER UNIT

Version 3
(25072024)



Hopkins

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Technical Support: -

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SAFTEY SYMBOLS



Warning of serious injury/death or damage to equipment



Caution



Information / Helpful hints

This manual aims to provide the user with information to allow safe operation, maintenance and adjustment of the power unit. Always observe safety symbols throughout this manual and on equipment labels / information plates.



Do not operate this equipment without fully reading this manual, take time to familiarise yourself with the equipment and controls before use. Make sure you know how to use and maintain this equipment safely.



Hydraulic power units should not be run unattended.



It is the buyer or user's responsibility to ensure use of the correct flow and pressure for the product being powered by the power unit. Never connect tools or equipment that are not compatible with this power unit.



This equipment should only be used by a competent person who has received adequate training in hydraulics. If there are any questions or anything is not clear contact the manufacturer.



Only trained and suitably qualified electricians are allowed to carry out repairs and/or maintenance tasks to the electrical circuit.



Other than routine maintenance, repairs and/or service to this power unit must only be done by a trained and competent person.

SAFETY PRECAUTIONS

Operators and maintenance personnel must always comply with the safety precautions given in this manual and on the labels attached to the equipment.

These safety precautions are given for your safety, review them carefully before operating the power unit and before performing any general maintenance or repairs.

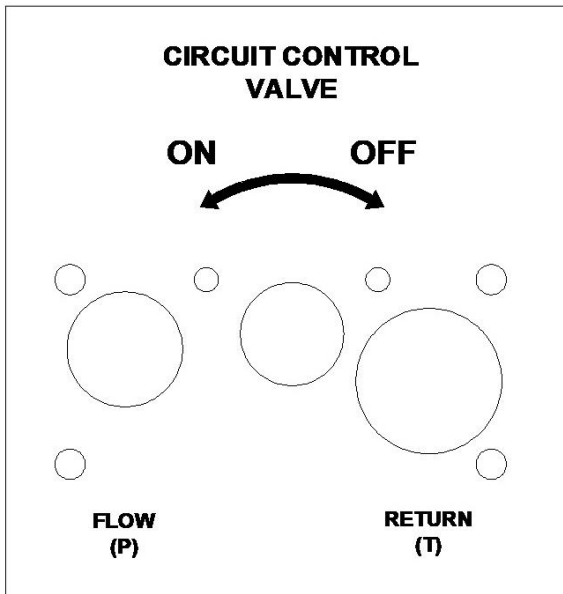
Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations.

The EPP56 will provide safe and dependable service if operated in accordance with the instructions given in this manual. Thoroughly read and understand this manual and any labels attached to the power unit, failure to do so could result in personal injury or equipment damage.

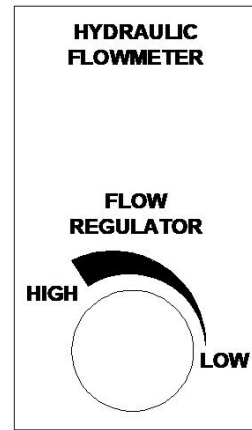


- Operator must start in a work area without bystanders. The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- Establish a training program for all operators to ensure safe operation.
- Do not operate the power unit unless thoroughly trained or under the supervision of an instructor.
- Always wear safety equipment such as safety glasses, ear protection, head protection and safety shoes at all times when operating the power unit.
- Do not inspect or clean the power unit while it is running, accidental engagement of the unit can cause serious injury.
- Always connect hydraulic hoses before starting the power unit.
- Always use hoses and fittings with a working pressure rating exceeding the maximum pressure of the power unit.
- Be sure all hoses are connected for correct flow direction to and from the tool being used.
- Regularly inspect all hoses for damage and signs of perishing.
- Do not inspect hoses and fittings for leaks by using bare hands, 'Pin-hole' leaks can penetrate the skin.
- Do not operate or use a damaged or improperly adjusted power unit. If the unit generates a problem while in use, turn off immediately.
- Never wear loose clothing that can become entangled in the working parts of the unit.
- Keep all parts of your body away from the working parts of the power unit.
- Do not operate the unit within 1m of buildings, obstructions or flammable objects. Avoid using the unit when there is flammable material, dust or vapor nearby.
- Do not reverse the tool rotation direction by changing the fluid flow direction.
- Allow power unit to cool before storing in an enclosed space.
- Always keep critical tool markings such as warning labels legible.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be carried out by authorised, competent and trained personnel.
- Never allow unqualified electricians to carry out maintenance, service or repair work to the electrical circuit.
- Never adjust the pressure relief valve to a setting above the units rated maximum system pressure.
- Always employ safe lifting techniques complying with relevant safety regulations, use the provided lifting points – check these are in good order before doing so.
- Never use the power unit if there is any evidence of hydraulic oil leaking.
- Do not touch the hydraulic tank or oil when the unit is in use.
- Never operate this power unit if you are ill or under the influence of alcohol or drugs.
- Always keep the electric control box, cable and sockets dry and clean.
- Always disconnect the supply power cable before performing repairs, service or maintenance work to this unit.

EQUIPMENT LABELS



N00166



N00169

Type	<input type="text"/>	Ser No.	<input type="text"/>
Flow	<input type="text"/>	Pressure	<input type="text"/>
Year of Manufacture	<input type="text"/>		

N00163

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CAUTION!
Ensure the user manual has been thoroughly read and understood before operating this Power Unit

N00162



N00176



N00165

← MINIMUM OIL LEVEL INDICATOR

N00172

KEEP GRILL CLEAN & CLEAR OF OBSTRUCTIONS

N00171



N00170

HYDRAULIC OIL

N00173

ROTATION

→

N00174



N00175

SPECIFICATIONS

HPU MODEL	EPP56-1VE
HYDRAULIC PERFORMANCE Hyd Circuit Type Hyd Oil Flow Rate Nominal Working Pressure Pressure Relief Valve Max Setting	@ 50Hz Supply Single Circuit Variable 20 to 56lpm 155bar 175bar
HYDRAULIC TOOL COMPATIBILITY HTMA EHTMA	Type I, Type II, Type III CAT C, D, E, F
HYDRAULIC SYSTEM Hyd Reservoir Capacity Hyd Oil Grade Hyd Pump Hyd Pressure Filtration Hyd Suction Filtration Hyd QR Couplers	100 Litre Commissioned with ISO32 Gear Pump 25µm (with by-pass) 125µm Flat Face 3/4" BSP (1/2" Body Size)
MOTOR Type Rotation Protection Class	Electric 3-Phase 18.5kW 4-Pole 50/60Hz 380-415vac 50Hz 1460rpm 440-480vac 60Hz 1750rpm Clockwise (from motor fan side) IP56
STARTER / CONTROL BOX Type Protection Class Electrical Connection	Soft-Start IP65 63a 3P+E Plug mounted to starter box
HYDRAULIC COOLING Type	Thermostatically controlled 24vdc air blast hyd cooler
NOISE LEVELS Measured Sound Power Level Guaranteed Sound Power Level	93 dB L _{WA} 96 dB L _{WA}
DIMENSIONS Length Width Height	1110mm 750mm 1320mm
WEIGHT	440kg dry weight 550kg commissioned with hydraulic oil

TECHNICAL OVERVIEW

The EPP56 Hydraulic Power Unit is a versatile compact unit which meets the requirements of the most demanding marine and offshore applications. With a variable hydraulic flow rate of 20 to 56 litres per minute, it is ideally suited to run a full range of hand held underwater hydraulic tools and other equipment.

Variable hydraulic flow is achieved by the use of a pressure compensated flow control valve. Flow selection is set by rotation of the flow controller knob whilst observing the reading of the unit's hydraulic flow meter.

The hydraulic pressure relief valve, mounted to the hydraulic control valve, is set with a maximum system pressure of 175 bar to ensure a good working pressure of 155 bar at 56 litres per minute.

The hydraulic tank is constructed to hold 100 litres of either mineral or biodegradable hydraulic oil, generally to a viscosity grade of VG32. A filler breather on top of the tank along with a contents gauge mounted to the side of the tank aid filling and top up tasks. The tank is also fitted with a 125µm suction filter to give a form of protection to the hydraulic gear pump.

Hydraulic connection is made through industry standard 3/4 flat face quick connect couplers.

This unit is powered by a very efficient IE3 18.5Kw 4-pole electric motor running at 1460rpm/50Hz. The electric motor can be run from a 50 or 60Hz 3-phase supply with hydraulic gear pump sizing being altered (matched) to ensure correct flow is delivered.

Start-up is controlled by a Soft-Start control panel which is fitted with a 4-pin 63A plug for easy connection to an extension. The soft-start system incorporates a phase sequence sensing

relay which prevents the motor from starting up in the wrong rotation, it also includes features for over current and thermal protection.

The starter panel also houses a 24vdc transformer, start/stop buttons and a number of indicators for operating conditions.

The electric motor is IP56 and the starter control panel is IP65 protection rated.

The hydraulic circuit temperature is controlled by a 10Kw air blast / oil cooler transfer system, powered by a 24vdc thermostatically controlled fan to maintain a constant level of cooling.

The hydraulic oil is also circulated through a high-pressure in-line filter thus ensuring an efficient and reliable hydraulic system without increased back pressure. This filter system incorporates a visual indicator to give an early warning when the filter cartridge needs changing.

The unit is built on a strong rectangular section chassis and enclosed in a steel box section frame for maximum protection. Facility is provided for manoeuvring the unit with a fork lift truck via two fork pockets at the base of the chassis. The unit is also fitted with 4 lifting eye pads on the top of the frame at each corner post.

The fabricated frame assembly is protected with a powder coat finish.

The compact, low-noise and lightweight features of this unit makes it the ideal choice for supporting all your marine and offshore requirements.

This power pack has been designed to accommodate hydraulic hose runs of up to 200m long. Hoses can be supplied if required.

OPERATION

PREPARATION FOR USE



DO NOT operate this hydraulic power unit until you have thoroughly read this manual and familiarized yourself with all operating controls.

Perform daily maintenance checks.

Check condition of the electric power cable (not included), replace if any damage is noticed.

Check the unit for any damage, loose fittings or broken components. Ensure all system hydraulic hoses are in good condition, replace any that are showing signs of perishing.

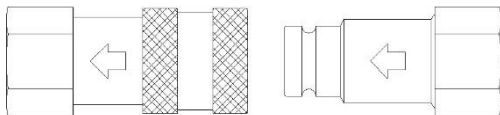
Using the forklift pockets or lifting points position the unit in a safe area for operation.

Connect the main set of hydraulic hoses between the unit and tool before starting.



Industry convention is that the hydraulic oil flows out of the male coupler and returns through the female coupler.

FLOW DIRECTION



STARTUP

Ensure the unit's control box electrical isolator switch is in the OFF position.

Ensure the hydraulic control valve lever is in the OFF position,

Adjust the hydraulic flow regulator valve to the LOW flow position.

Connect a suitable set of hydraulic hoses to the unit's hydraulic coupler connections.

Connect the other end of the hydraulic hoses to the couplers of the tool to be used.

Ensure the power source supply is switched off then connect a correctly rated power extension cable to the unit's inlet plug connection and the power source supply socket.

Turn on the power source supply switch.

Set the electrical isolator switch on the control box to the ON position and ensure the 'WHITE' POWER ON indicator illuminates.

Start the unit by pressing the 'GREEN' START button on the control box.



This unit is fitted with a Phase Sequence Sensor to prevent startup with the wrong motor / pump rotation.

If the 'RED' FAULT indicator illuminates this may indicate a phase sequence fault, see Troubleshooting Section to correct.

Wait approx. 6 seconds for the power unit to cycle through the soft-start stage, the 'GREEN' RUNNING indicator will illuminate when the unit is ready for operation.

Whilst observing the hydraulic flowmeter adjust the hydraulic flow regulator valve to give the required hydraulic flow output.

Check the pressure filter condition gauge is indicating GREEN, if this is RED shutdown the system and replace the pressure filter.

Move the hydraulic control valve lever to the ON position, the hydraulic tool circuit is now live.



The connected hydraulic hose set should be pre-commissioned with the correct grade hydraulic oil. The oil level in the hydraulic tank will drop if an empty hose set is connected, check and top up with correct grade hydraulic oil if necessary.

SHUTDOWN

Move the hydraulic control valve lever to the OFF position.

Stop the unit by pressing the 'RED' STOP button on the unit's control box. Ensure the 'GREEN' RUNNING indicator extinguishes.

Rotate the electrical isolator switch to the OFF position and ensure the 'WHITE' POWER ON indicator extinguishes.

Disconnect the power supply cable from the unit.

Disconnect the hydraulic hoses from both the hydraulic power unit and hydraulic tool.

Check the unit for hydraulic leaks.

MAINTENANCE AND SERVICE

MAINTENANCE INSTRUCTIONS



Before carrying out any major work disconnect the unit from the electrical power supply.

DAILY

Check hydraulic oil level is above the minimum level, top up as necessary with the correct grade hydraulic oil.

Visually check all joints and rectify any that are found to be leaking, use suitable eye protection if unit is running.

Check all information and instruction labels are present and legible, replace any that are missing or damaged.

WEEKLY OR EVERY 100 HOURS

Complete all daily maintenance tasks.

Check the high-pressure hydraulic filter condition gauge, change filter if indicating RED.



This can only be checked with the power unit running.

Check hydraulic quick release connectors for leaks and damage, replace if necessary. Always replace both connectors.

Check all hydraulic hoses for condition, replace any that are damaged or showing signs of perishing.

Check hydraulic oil cooler matrix is clear, remove any obstructions with a blast of low pressure compressed air.

Check unit for any site damage which could affect the safe use of the unit, correct and repair as necessary.

12-MONTHLY OR EVERY 300 HOURS

Complete all daily and weekly maintenance tasks.

Verify hydraulic flowrate performance and pressure relief valve settings using a suitable hydraulic tester, adjust if necessary.

Drain hydraulic oil from the tank.

Replace Hydraulic Suction Filter.

Replace Hydraulic Pressure Filter.

Refill the hydraulic tank with fresh & good quality mineral or biodegradable hydraulic oil to the correct grade.

Verify operation of the air blast hydraulic cooler fan and thermostat.

Check all bolts and fasteners are secure, refix or tighten any that are found to be loose.

SERVICE INSTRUCTIONS

REPLACING HYDRAULIC OIL & FILTERS



A hose approx. 1m long fitted with a ½ BSP male fitting will help with this task.

Ensure the hydraulic tank drain tap is in the closed (horizontal) position and remove the drain plug from the bottom of the drain tap.

Place a suitable sized container under the tank drain point or if available fit a 1m approx. drain hose to the drain point of the tap and place the other end into the suitably sized container.

Open the drain tap and drain the hydraulic oil from the tank. Once drained close the tap and refit the plug.

Remove the inspection cover (complete with filler breather) from the top of the hydraulic tank. Unscrew and remove the hydraulic suction filter directly below the tank aperture, discard and fit the new suction filter element. Refit the inspection cover replacing any damaged bonded seals or sealing gasket as necessary.

Place a suitably sized container under the high-pressure hydraulic filter assembly and using a 30mm socket/wrench remove the bowl. Withdraw and discard the filter element. Clean out any foreign particles from the bowl and fit the new filter element. Replace the filter bowl and tighten to 65Nm.

Remove the hydraulic filler breather cap and refill the hydraulic tank with a good quality hydraulic oil to the correct grade. Check the contents gauge on the side of the tank to ensure that the oil sits above the minimum level.

Refit the hydraulic filler breather cap.

Power up the unit with the hydraulic control valve kept in the OFF position, this will allow the oil to circulate through the system & hoses and displace any trapped air. Recheck the oil level in the hydraulic tank and top up as necessary.

TEST INSTRUCTIONS



A hydraulic tester, ideally calibrated, will be needed to conduct these tests. The tester will need a flowmeter, pressure gauge, restrictor valve & temperature gauge.

CHECKING HYDRAULIC FLOW RATE

Connect the hydraulic tester to the hydraulic connectors of the unit ensuring that the testers restrictor valve is in the fully open position. Follow the start-up procedure and start the unit, allow to run for 5 minutes approx. to warm up the hydraulic oil.

Rotate the units hydraulic flow regulator valve to the highest flow rate position, approx. 56lpm.

Move the units hydraulic control valve lever to the ON position and verify the readout on the tester matches that of the unit's hydraulic flowmeter – a tolerance of 5-7% is acceptable.

Allowing for the same tolerance as previous check the units flow range from 20 to 56lpm in 5lpm steps, record your readings.

Readings recorded outside of the allowed tolerance suggest a worn hydraulic pump, replace the pump and repeat the test.

CHECKING HYDRAULIC PRESSURE

Connect the hydraulic tester to the hydraulic connectors of the unit ensuring that the testers restrictor valve is in the fully open position. Follow the start-up procedure and start the unit, allow to run for 5 minutes approx. to warm up the hydraulic oil.

Rotate the units hydraulic flow regulator valve to the highest flow rate position, approx. 56lpm.

Move the units hydraulic control valve lever to the ON position and confirm hydraulic oil is passing through the tester by observing its flowmeter.

Slowly close the testers restrictor valve whilst observing the testers pressure gauge, the flow rate should remain consistent until the working pressure value of 155bar has been reached.

Continue to close the testers restrictor valve and confirm the hydraulic flow indicates a progressive flow rate drop as the pressure climbs above the 155bar working pressure - the point in which flow starts to drop off is known as the cracking point of the pressure relief valve,

this can also be detected by a flicker of the testers pressure gauge needle.

Continue to turn the testers restrictor valve until it is fully closed, this should coincide with zero flow on the tester's flowmeter. At this point all hydraulic flow is passing through the unit's pressure relief valve – this is known as the maximum system pressure.

Note and record the maximum system pressure and ensure this does not exceed the unit's rated specification of 175bar.

ADJUSTING THE PRESSURE RELIEF VALVE

If the cracking pressure is too high or too low then adjust the pressure relief valve (PRV) as follows.

Locate the PRV at the rear of the panel, you will find this fitted to the bottom of the units hydraulic control valve.

With a spanner loosen the locknut on the adjustment stem of the PRV.

With an Allen Key adjust the PRV to set the cracking pressure to 155bar – turning clockwise will increase the pressure while turning counterclockwise will decrease the pressure.

Tighten the PRV locknut and repeat the test.

If necessary, continue adjustment until the working pressure of 155bar @ 56lpm has been achieved.

CHECKING HYDRAULIC COOLER SYSTEM



This test must be started with the power unit in a cold condition.

Connect the hydraulic tester to the hydraulic connectors of the unit ensuring that the testers restrictor valve is in the fully open position. Follow the start-up procedure and start the unit, ensure the cooler fan is not running at this point.

Rotate the units hydraulic flow regulator valve to the highest flow rate position of 56lpm.

Move the units hydraulic control valve lever to the ON position and confirm hydraulic oil is passing through the tester.

Slowly close the testers restrictor valve whilst observing the testers pressure gauge, set the testers restrictor valve to generate a pressure load of approx. 100bar. This will introduce heat into the hydraulic system and oil.

Allow the unit to run whilst observing the rise in oil temperature on the tester's thermometer gauge.

The hydraulic oil temperature at the point when the cooling fan starts to run should be at a value of between 40 to 45° C.

Continue to run the power unit and allow the oil temperature to rise to approx. 55° C at which point fully open the testers restrictor valve to remove the pressure load.



The speed of the cooling fan should progressively increase as the hydraulic oil temperature rises.

The hydraulic oil temperature should slowly start to drop, note the temperature at which the oil cooler fan cuts out. This should be around 40° C or just below.

If the fan does not run on temperature rise this would suggest the thermostat is faulty, replace the thermostat and repeat the test.

STORAGE

- Clean the unit thoroughly, DO NOT pressure wash.
- Always store the unit in a clean and dry location.

TROUBLESHOOTING

Problem	Cause	Remedy
Electric motor will not start	Power cable not connected	Connect unit to power supply using suitably rated cable
	Fault with power supply circuit	Get a suitably qualified electrician to investigate and remedy the power source
	Isolator switch not turned on (WHITE POWER ON indicator not illuminated)	Locate isolator switch on units control box and switch to on position
	Incorrect phase sequence, units RED FAULT indicator illuminates	Get a suitably qualified electrician to change the 3-phase sequence
Hydraulic fluid is frothing or blowing out of the vented filler breather	Hydraulic tank is overfilled	Remove hydraulic fluid from the hydraulic tank
	Hydraulic pump is faulty	Replace the hydraulic pump
Hose set hydraulic couplers will not connect to couplers of hyd power unit	Hose set is pressure locked	Crack coupler joints at end of both hoses to relieve pressure
	Hyd couplers are damaged	Replace damaged couplers
Hyd cooler fan will not operate at temperature	Thermostat is faulty	Replace faulty thermostat
	Electric fan is faulty	Replace faulty electric fan
Connected hydraulic tool will not operate	The hydraulic control valve is in the off position	Move the lever to the on position
	The tool is not properly connected to the unit	Check the connection hoses from the power unit to the tool. Ensure pressure and return hoses are in the proper ports on the tool
	The hydraulic quick couplers are defective	Replace the couplers with a new set
	The hydraulic fluid level in the tank is too low	Top up hydraulic oil in tank to the minimum level – check for leaks
	The hydraulic pump coupling is defective	Power down the unit and check the coupling between the hydraulic pump and the motor
	The pressure relief valve is stuck open	Adjust the valve or replace if necessary – see test instructions
	Suction Hose is kinked	Visually check the suction hose for kinks, this should run with a smooth curve
	The attached tool is defective	Refer to the tool's manual

SPARE PARTS & ACCESSORIES

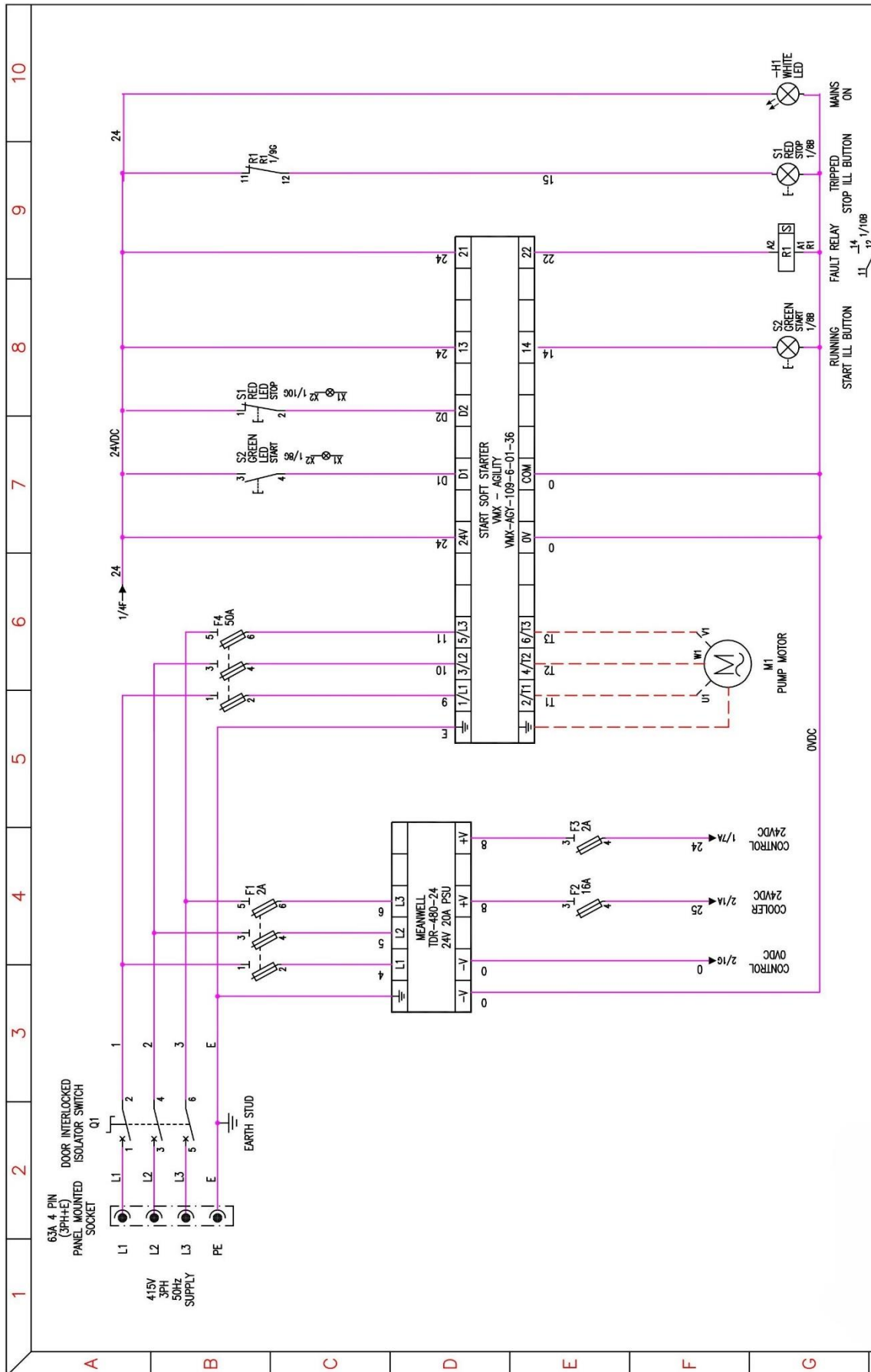
Spares List for EPP56-1VE

Part No.	Description	Par No.	Description
N00154	Filter Service Kit	N00140	High Pressure Filter Assy
FIRG34BSP	Flat Face Coupler Set	N00153	High Pressure Filter Element
N00186	ON/OFF Flow Control Valve	N00147	Suction Filter Element
N00183	Pressure Relief Valve	N00149	Filler Breather
N00135	Gear Pump	N00141	Contents Level Gauge
N00137	Flexible Drive Coupling Assy	N00142	Oil Cooler / Fan Assy
N00221	Flow Regulator Valve 3/4" Ported	N00144	Thermostat
N00139	Flow Meter	N00143	Fan Controller Switch
N00133	18.5kW Electric Motor	N00148	Tank Drain Tap

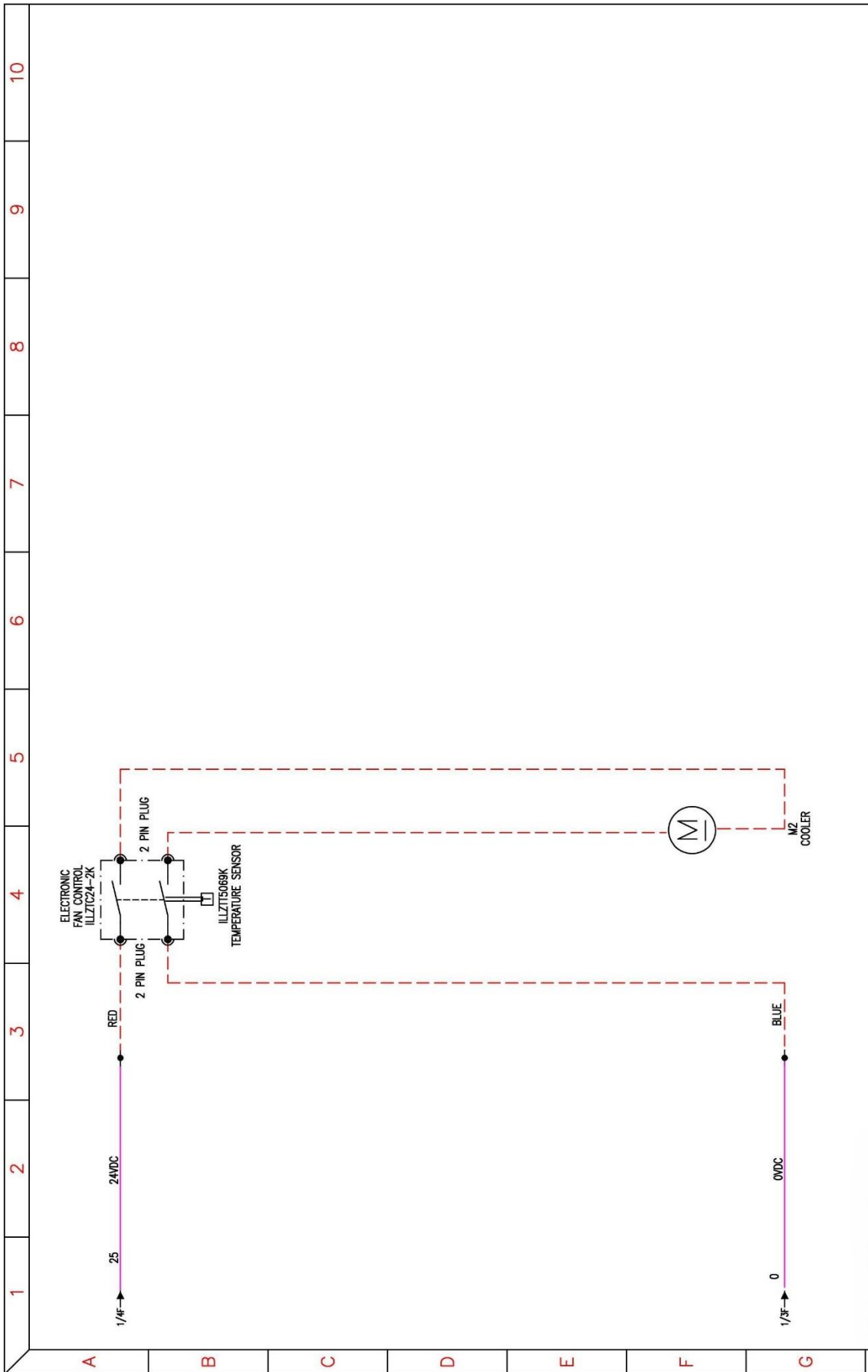
Hydraulic Hose Sets

Part No.	Description
HS020M1012B2-FF	Hydraulic Hose Assy Set 20m Long 5/8P R2 : 3/4R R1 : 3/4" & 1/2" FF Hyd Couplers
HS030M1012B2-FF	Hydraulic Hose Assy Set 30m Long 5/8P R2 : 3/4R R1 : 3/4" & 1/2" FF Hyd Couplers
HS040M1012B2-FF	Hydraulic Hose Assy Set 40m Long 5/8P R2 : 3/4R R1 : 3/4" & 1/2" FF Hyd Couplers
HS050M1012B2-FF	Hydraulic Hose Assy Set 50m Long 5/8P R2 : 3/4R R1 : 3/4" & 1/2" FF Hyd Couplers
TS050M1012B2-FF	ThermoPlastic Hydraulic Hose Assy Set 50m Long 5/8P R8 : 3/4R R7 : 3/4" & 1/2" FF Hyd Couplers
HS075M1216B2-FF	Hydraulic Hose Assy Set 75m Long 3/4P R2 : 1R R1 : 3/4" & 1/2" FF Hyd Couplers
HS100M1216B2-FF	Hydraulic Hose Assy Set 100m Long 3/4P R2 : 1R R1 : 3/4" & 1/2" FF Hyd Couplers
HS120M1216B2-FF	Hydraulic Hose Assy Set 120m Long 3/4P R2 : 1R R1 : 3/4" & 1/2" FF Hyd Couplers
All hydraulic hose sets are commissioned with ISO32 mineral hydraulic oil	

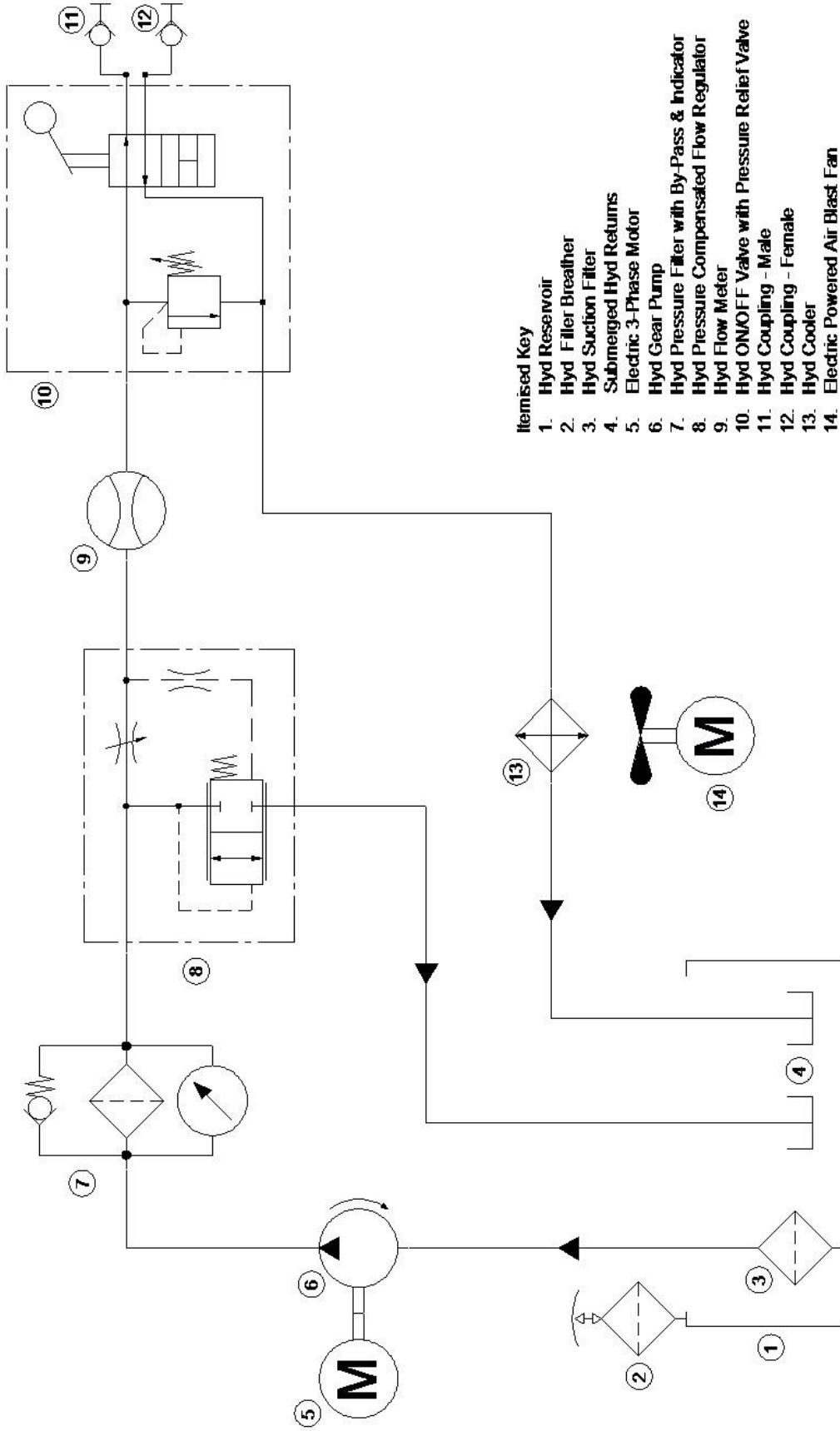
ELECTRICAL CIRCUIT DIAGRAM



ELECTRICAL CIRCUIT DIAGRAM



HYDRAULIC SCHEMATIC



Itemised Key

1. Hyd Reservoir
2. Hyd Filler Breather
3. Hyd Suction Filter
4. Submerged Hyd Returns
5. Electric 3-Phase Motor
6. Hyd Gear Pump
7. Hyd Pressure Filter with By-Pass & Indicator
8. Hyd Pressure Compensated Flow Regulator
9. Hyd Flow Meter
10. Hyd ON/OFF Valve with Pressure Relief Valve
11. Hyd Coupling - Female
12. Hyd Coupling - Male
13. Hyd Cooler
14. Electric Powered Air Blast Fan

EU DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY



I, the undersigned, hereby declare that the equipment specified hereunder:

Category: Hydraulic Power Unit
Make: Hopkins
Type: EPP56-1VE
Serial Number: ALL



Has been manufactured in conformity with:

Directive / Standard	No.
Machinery Directive	2006/42/EC
Noise Directive	2000/14/EC
BS EN ISO	3744:2010
BE EN ISO	4413:2010
BS EN ISO	12100:2010

Special Provisions: None

Measurements: Measured Sound Power Level: 93 dB L_{WA}
Guaranteed Sound Power Level: 96 dB L_{WA}
Noise related value: Installed Power 18.5kW

EC Hopkins Limited, Woodgate Business Park, Birmingham B32 3DB, UK

Name: Andrew Gray

Signature: 

Position: Technical Manager

Date: 5 April 2024

UK DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY



I, the undersigned, hereby declare that the equipment specified hereunder:

Category: Hydraulic Power Unit
Make: Hopkins
Type: EPP56-1VE
Serial Number: ALL



Has been manufactured in conformity with:

Directive / Standard	No.
Supply of Machinery	S.I. 2008/1597
Noise Emission	S.I. 2001/1701
BS EN ISO	3744:2010
BE EN ISO	4413:2010
BS EN ISO	12100:2010

Special Provisions: None

Measurements: Measured Sound Power Level: 93 dB L_{WA}
Guaranteed Sound Power Level: 96 dB L_{WA}
Noise related value: Installed Power 18.5kW

EC Hopkins Limited, Woodgate Business Park, Birmingham B32 3DB, UK

Name: Andrew Gray

Signature: 

Position: Technical Manager

Date: 5 April 2024

WARRANTY

This product is guaranteed (subject to normal wear and tear) against defective parts and faulty workmanship for a period of 12 months from date of purchase.

It does not cover: -

- Parts already covered by original equipment manufacturers own warranties already in place
- Failure of parts due to lack of maintenance and services
- Any failure due to non-genuine parts fitted
- Rubber products
- Product subject to misuse/abuse or being neglected in any way
- Being modified in any way without prior written consent from EC Hopkins Ltd

In case of disagreement between parties as to whether it is or not warranty, the failed part will be returned to our supplier for inspection. The findings by that supplier as to why the part failed will be binding.

With an ongoing design and development program EC Hopkins Ltd reserve the right to alter the design or specification of any product without prior notice.

NOTES

Hopkins

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