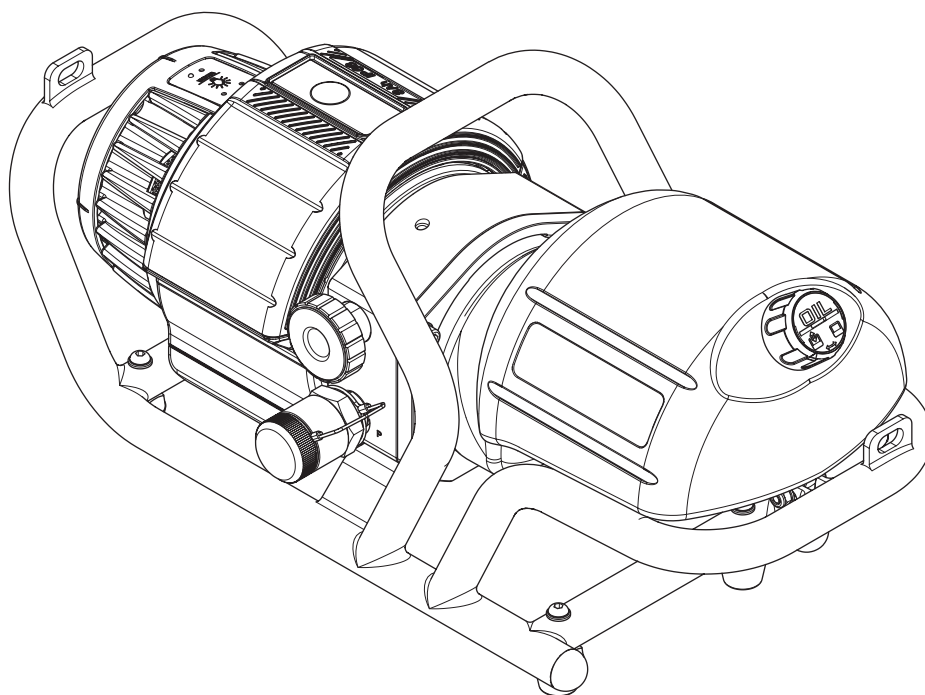


Holmatro Battery Pump S HBP05S02



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1 About this document

1.1 About the product in this document

This document is applicable to the product: **HBP05S02**.



Note

For the identification of the model type, refer to the type plate. Refer to section 'Identification'.

1.2 Function of this document

This document gives the instructions on the operation, maintenance, malfunctions and safety of the product.

For the requirements of the user, refer to section 'Qualified personnel'.

1.3 How to use this document

1. Make sure that you know the structure and contents of this document.
2. Read the safety chapter and make sure that you know all the instructions.
3. Do the steps in the procedures fully and in the correct sequence.
4. When there is a reference to a related document, read the related document.
5. Keep the document in a safe location that you can easily access. This document is a part of the product.

1.4 Availability

This document and the related documents are available on the Holmatro website:
www.holmatro.com

1.5 Revision summary

Date	Revision number	Comment
October 2025	001	Initial version
April 2026	002	<ul style="list-style-type: none">• Separated for HBP05D02 and HBP05S02• Updated the overview of the pump• Added the overview of the pendant• Added the pressure relief valve

1.6 Conventions

1.6.1 Language

The original instructions in this document are in English (EN-US). All other language versions are translations of the original instructions.

1.6.2 Illustrations

The illustrations in this document show a typical device with related parts. Small differences between the illustrations and your device are possible. These differences do not have an effect on the comprehensibility of this document. The illustrations are for instruction and description only.

1.6.3 Units

The document has SI units (international metric system) for the measurable parameters of the device. All other possible units are conversions of the SI units. If the document has other units, these are between parentheses after the SI unit, or in different columns in a table.

1.6.4 Typographical conventions

If the sequence is important, the lists and steps in procedures have numbers (123) or letters (abc).

1.6.5 Symbols and signal words used in this document



Warning

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Caution

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



Note

Emphasizes important information for optimal product use. This symbol is displayed in the manual with all regulations related to product use or maintenance.

1.7 Definitions

Term	Definition
System	The assembly of pump, hose or hoses and tool or tools
Pump	The device that supplies hydraulic flow and pressure.

Table continued...

Term	Definition
Hose	The assembly of flexible hydraulic line and couplers.
Tool	The hydraulic device such as a cutter, spreader, combi tool, ram or cylinder
Battery pack	The device that supplies electric current and voltage
Battery pack charger	The device that charges a rechargeable battery pack

1.8 Guarantee

Refer to the general terms and conditions of sale for the warranty conditions, available from your Holmatro dealer on request. Holmatro draws your attention to the fact that every warranty on your product or system will lapse and that you must indemnify Holmatro against any possible product liability and responsibility if:

- Service and maintenance are not carried out strictly in accordance with the instructions, repairs are not performed by a Holmatro Certified Technician or are performed without prior written consent.
- Self-made changes, structural changes, deactivation of safety devices, injudicious adjustment of hydraulics and faulty repairs have been carried out.
- Non-genuine Holmatro parts or lubricants other than the types prescribed are used.
- The product or the system is used injudiciously, through errors of operation, improperly, negligently or not in accordance with its nature and/or purpose.

1.9 Disclaimer

All rights reserved. Nothing from this publication may be disclosed, reproduced or modified in any way without prior written consent from Holmatro. Holmatro reserves the right to modify or alter parts of products without prior notification. The contents of this user manual can likewise be modified at any time. This user manual is based on and is related to the models manufactured at this moment and legislation currently in place. Holmatro accepts no liability whatsoever for possible damage resulting from the use of this user manual with respect to any product supplied or possibly to be supplied, subject to intent or gross negligence on the part of Holmatro. For detailed information about the use of the user manual, maintenance and/or repair of Holmatro product, Holmatro or the official, appointed distributor must be contacted. All possible attention has been given to the composition and precision of this user manual. However, Holmatro cannot be held liable for errors and omissions or obligations issuing from them. If the correctness or completeness of this user manual is unclear, you must contact Holmatro.

2 Safety

2.1 Intended use

The pump is part of the system for use in industrial applications to give power for tools.

2.2 System requirements

Because of the diversity in control, operating pressure and necessary oil volume per tool, not all combinations of Holmatro pumps, hoses and tools can be applied.

You must only use the pump with the prescribed type of battery pack. In case of doubt about the compatibility of the system, contact the Holmatro dealer.

2.3 Qualified personnel

- The approved user is trained in the use of the product or system.
- The approved user is a person that fully knows the product and its safe operation.
- The approved user only does the troubleshooting or maintenance described in this document. Other troubleshooting, maintenance or repairs are done by a Holmatro certified technician.
- The approved user obeys all the applicable safety and environmental rules and regulations and obeys the local legislation.

2.4 Safety signs








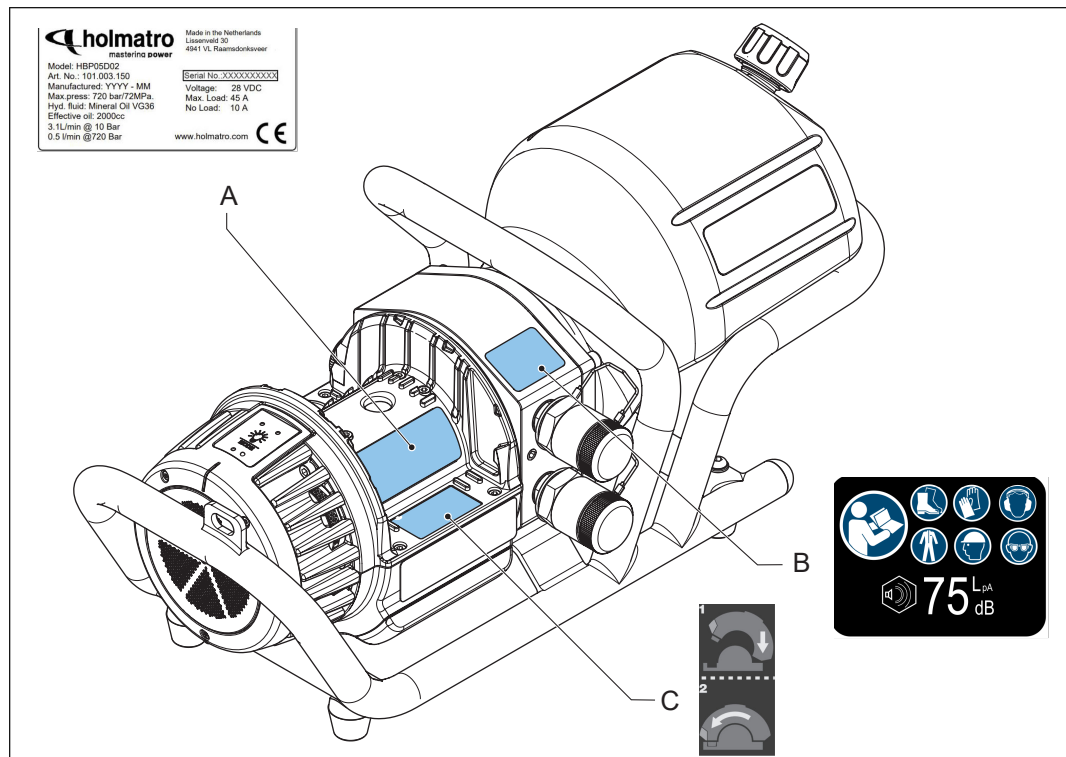
Sign	Description
	Read the user manual before you use the product.
	Put on safety shoes with good ankle support and toe protection.
	Put on safety gloves.
	Put on protective and reflective clothing for the full body.
	Put on safety goggles (or a full face shield).
	Put on a helmet.

Table continued...

Sign	Description
	Put on hearing protection.

2.5 Locations of the safety signs



A Type plate
B Safety signs

C Sign that shows how to install the battery pack

2.6 Safety instructions

2.6.1 General safety instructions

- Use this product solely for the activities for which it was designed. If you are in doubt or uncertain, always consult your Holmatro dealer.
- Replace illegible safety signs, pictograms and information labels with identical ones, available from your Holmatro dealer.
- Varnished, plastic and rubber parts are not resistant to corrosive acid or liquid. Except for electrical parts, rinse parts that have come into contact with corrosive acid or liquid with a lot of water. Consult your Holmatro dealer for a resistance list.
- Protect the product against sparks during welding or grinding activities.
- Avoid an unhealthy posture while working. It can result in physical complaints.
- Do the inspection and maintenance instructions.
- Use only genuine Holmatro parts and maintenance products prescribed by Holmatro.

- Contact Holmatro for conversion of a product. In case of conversion, retain the original manual and the conversion manual.

2.6.2 Safety instructions for personal safety

Personnel must put on personal protective equipment (PPE) as prescribed in the standard work procedure. Negligent use of personal protective equipment can result in serious injury. Put on at least these items of personal protective equipment:

- Helmet
- Safety goggles or full face shield
- Safety gloves
- Safety clothing for the entire body with reflective material
- Safety shoes with good ankle support and toe protection
- When you must cut glass or certain plastics, put on mask with a filter

2.6.3 Safety instructions for the pump

- Never change the settings of any safety device.
- Contact the Holmatro dealer about the workability or life span of the pump.
- Set the tank cap to non-ventilation mode to prevent spilling oil during transport.

2.6.4 Safety instructions for operation

- Make a risk assessment of the procedure before you start work (EN-ISO 12100).
- Keep bystanders at a distance and be extra careful in the vicinity of people and animals.
- Make sure that the work area is clearly laid out and has good lighting.
- Avoid stress and work in a structured way. This reduces the risk of errors, combinations of dangers and accidents.
- Before use, make sure that the product has no damage. Do not use the product if it is not in good condition and consult your Holmatro dealer.
- Stand on a stable base and use both hands to hold the product.
- During operation, never get between the object and the product.
- Hold the product only by the carrying handle. Do not use any part of the hose as a carrying handle.
- Monitor the situation of the product and the structure continuously while using the product.
- Parts of an object that could fly off must be secured.
- Do not couple or uncouple couplers while the system is under pressure.
- Use only genuine Holmatro accessories and ensure that they have been attached correctly.
- Make sure that parts of the body never come between moving parts. There is a risk that parts of the body may be crushed or cut.
- Stop immediately if the system makes strange noises or displays aberrant behavior.
- Stop immediately if the product leaks oil. Leaking oil under pressure can penetrate the skin and cause serious injury. If oil penetrates the skin, go immediately to a hospital. Give a specification of the oil to the medical staff.
- Always adhere to the safety regulations that apply to other product that is used in the operation.

2.6.5 Safety instructions for maintenance

- Wear personal means of protection when you do maintenance tasks.

- Do not work in a way that could jeopardize safety.
- Make sure that the product cannot roll away or tip over. The control and drive must be switched off and safeguarded against unexpected activation.
- Make sure that moving parts do not move unexpectedly.
- Used or leaked fluids, and any other products consumed during the activities, must be collected and disposed of in an environmentally responsible way.

2.6.6 Safety instructions for hoses

- Make sure that heavy objects do not fall on the hose.
- Keep the hose away from the working area of the tool.
- Prevent damage to the hose.
- Make sure that dual hoses do not twist.
- Make sure that hose do not have kinks.
- Do not bend the hose through the minimum bending radius.
- Do not use the hose to carry, pull or move the pump or tool.
- Replace the hose before the 10 years after the date of manufacture.

2.6.7 Safety instructions for battery packs

- Avoid explosive gases, open flames and sparks. This can cause an explosion risk.
- Do not put the battery pack in water longer than 30 minutes and deeper than 1 meter.
- Avoid short-circuiting the battery pack. Make sure that the connections do not come in contact with metal objects.
- Do not charge a wet battery pack.
- Do not use damaged battery packs. Contact the Holmatro dealer for instructions.
- Do not let the battery pack fall. Do not hit, crush or throw the battery pack.
- Do not make direct solder connections on the battery pack.
- Do not open the battery pack.
- Protect the battery pack against direct solar radiation and other sources of heat.
- Do not put the battery pack into a microwave or a high-pressure container.
- When not in use, store the battery pack in a dry place, locked up securely and out of reach of children.
- Before and after every use of a Li-Ion battery pack, inspect the battery pack carefully to make sure that no physical damage shows, such as loose plugs and wires.
- When the battery pack is discarded, refer to the local regulations and the instructions in this document.
- Use the battery pack only with the specified battery pack charger.
- Use the battery pack only in the original application.
- Store battery packs in well-ventilated, cool rooms. The maximum storage temperature of 40 °C (104 °F) may not be exceeded.
- Do not put battery packs into direct sunlight during long-term storage.
- Make sure that persons who are not able to use the device in a safe way because of their physical, sensory or mental competence, or because of their inexperience, do not use the battery pack without guidance or instruction from qualified personnel.
- Make sure that children do not play with the battery pack.

2.6.8 Safety instructions for Li-Ion battery packs

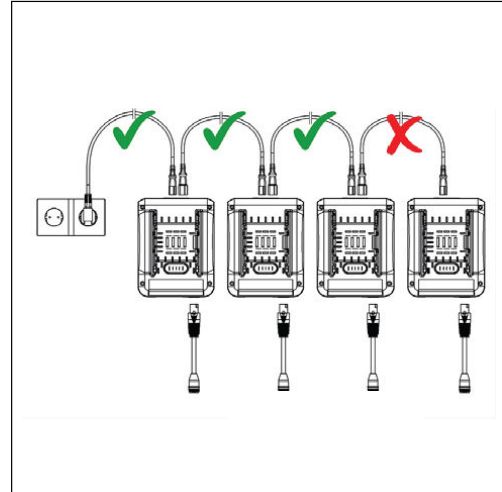
**Note**

Li-Ion battery packs are entirely different from NiCad and NiMH battery packs and must be handled differently.

- Before and after every use of the Li-Ion battery pack, inspect the battery pack carefully to make sure that there is no damage, such as cracks in the housing or missing buttons. Such signs often indicate that a problem exists with the battery pack that could lead to failure.

2.6.9 Safety instructions for battery pack chargers

1. Read all instructions carefully before you use the battery pack charger.
2. Only use a power supply with the correct voltage and frequency. Refer to the electrical specifications on the model plate.
3. Use the battery pack charger only indoors.
4. Use protection for the battery pack charger against damp or wet conditions.
5. Do not use the power cord to move the battery pack charger. Never pull the power cord to disconnect the battery pack charger from the power outlet. Keep the power cord away from heat, oil and sharp edges.
6. Do not use the battery pack charger on a highly inflammable surface or in an inflammable environment.
7. Do not charge a wet battery pack. When not in use, store the battery pack charger in a dry place, locked up securely and out of reach of children.
8. Persons who are not able to use the battery pack charger in a safe manner, due to their physical, sensory or mental condition, or due to their inexperience, must not use the battery pack charger without the supervision or instruction from a skilled person.
9. Strictly observe the minimum and the maximum charging temperature. Refer to the section 'Specifications'.
10. Do not use a damaged battery pack charger.
11. Do not disassemble the battery pack charger.
12. Risk of short-circuit: use protection for the battery pack charger against metal objects.
13. Do not connect more than 3 battery pack chargers with daisy chain cables.



2.6.10 Safety instructions for mains connectors

- Read all instructions carefully before you use the mains connector.
- Only plug the mains connector into a power supply with the correct voltage and frequency. Refer to the electrical specifications on the model plate.
- Use protection for the mains connector against damp or wet conditions.
- Do not use the power cord to move the mains connector. Do not pull the cord to disconnect the mains connector from the power outlet. Keep the cord away from heat, oil and sharp edges.
- Do not use the mains connector on a highly flammable surface or in a flammable environment.
- When you do not use the mains connector, store the mains connector in a dry place, locked up securely and out of reach of children.
- Make sure that persons who are not able to use the mains connector in a safe manner, due to their physical, sensory or mental condition, or due to their inexperience, do not use the mains connector without the supervision or instruction from qualified personnel.
- Do not use a damaged mains connector.
- Do not disassemble the mains connector.
- Risk of short-circuit: use protection for the mains connector against metal objects.
- Only use the mains connector to supply power to Holmatro products with battery packs.

2.7 Environmental information

- Under normal use no leakage occurs. There is no contact with toxic substances in the battery pack.
- Under normal use there is no environmental hazard.

2.8 Packaging

In many regulations such as IATA (air), ADR (road) and IMO (sea), Li-Ion battery packs are considered to be dangerous goods. Make sure that the battery packs are packed and transported in accordance with the latest regulations. Contact a Holmatro dealer for more information.

3 Description

3.1 Pump

The pump is an independent power source to which tools can be connected. The pump is suitable for driving tools operating on mineral oil and suitable for an operating pressure of 720 bar. Depending on the type of manifold that is installed on the pump, the pump can drive either single acting or double-acting tools.

The battery pack energizes the electric motor. The electric motor operates a multi-stage piston pump. Stage switching is electronically controlled for maximum speed at the necessary pressure.

3.2 Battery pack

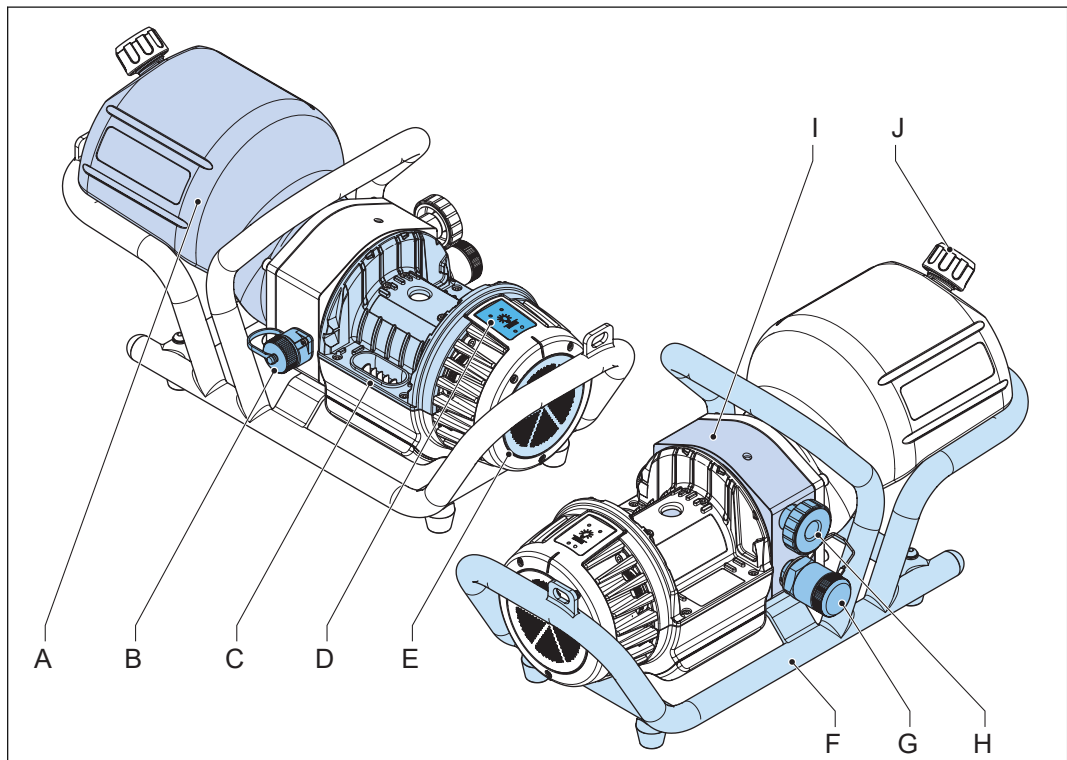
The battery pack is a purpose-built battery pack with high capacity to supply power to Holmatro products with battery packs.

The battery pack has a Battery Management System (BMS) that protects the battery pack against internal damage.

3.3 System

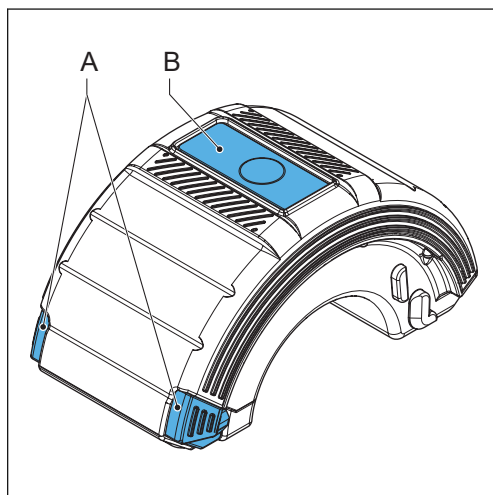
A system is an assembly of a pump, hose or hoses, and one or more tools. The pump is driven by an electric motor. The pump displaces hydraulic oil and builds up pressure. The hose is for transporting the oil between the pump and the tool. The tool has a hydraulic cylinder that contains a piston that can move axially. If the hydraulic cylinder is pumped fully from the bottom, pressure builds up beneath the piston so that the piston is pushed to the outside. If the hydraulic cylinder is pumped fully from the top, the piston is forced back into the hydraulic cylinder.

3.4 Overview - Pump



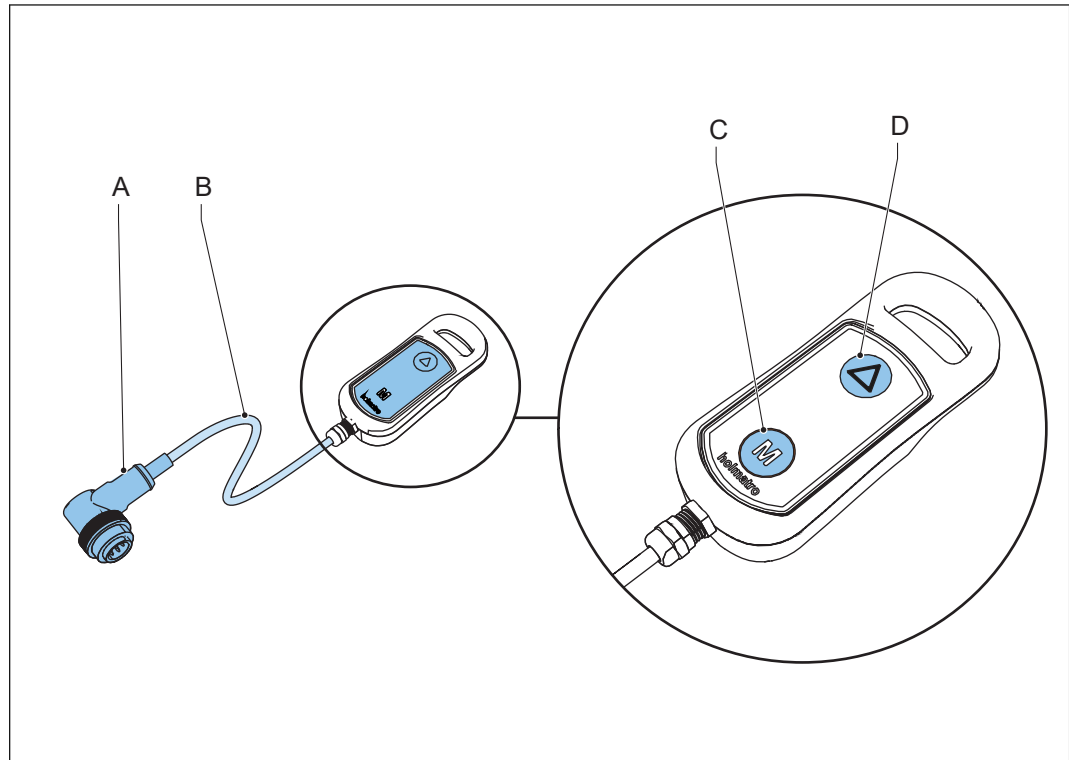
- | | | | |
|---|---------------------------|---|--------------------------|
| A | Oil tank | F | Frame |
| B | Connector for the pendant | G | Coupler |
| C | Base plate | H | Pressure relief valve |
| D | User interface | I | Manifold |
| E | Motor compartment | J | Tank cap (with dipstick) |

3.5 Overview - Battery pack



- A Release buttons of the battery pack
- B User interface

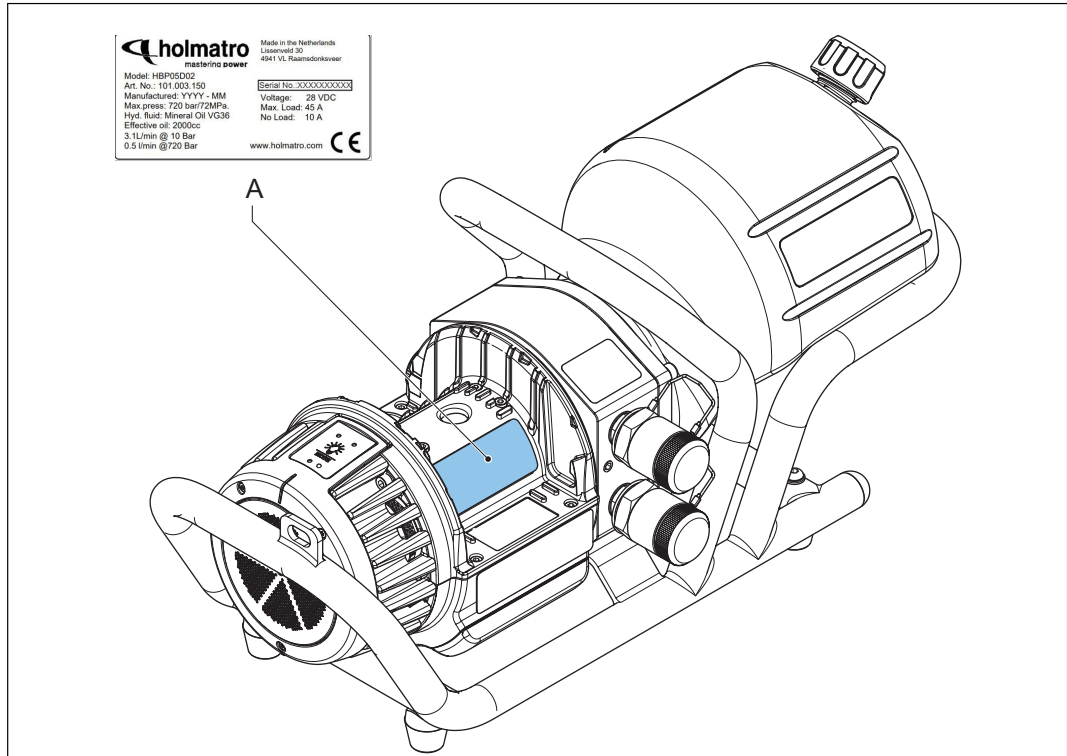
3.6 Overview of the pendant



- A Pendant connector
- B Pendant cable
- C Pump mode button
- D Activation button

3.7 Identification

3.7.1 Type plate



A Type plate

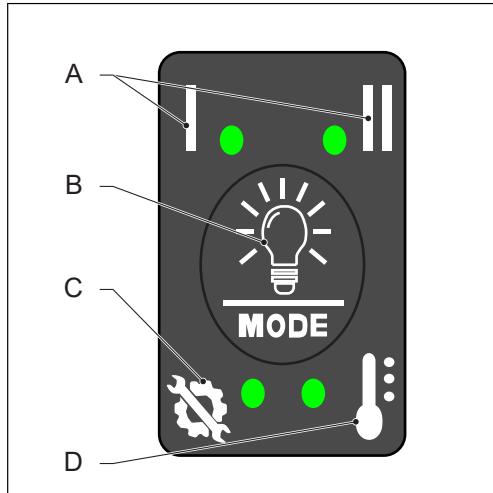
3.7.2 Type designation

Example: HBP05S02

Code	Description
HBP	Holmatro Battery Pump
05	Flow at rated pressure
S	Pump type: S = single acting
02	Capacity of the hydraulic oil tank in liters


3.8 User interface

3.8.1 Overview of the user interface - Pump






- A Pump mode indicators
- B Pump mode button
- C Service indicator
- D Temperature indicator - Pump

3.8.2 Pump mode indicators

Color	Condition	Description
	Color: green	The active pump mode.




3.8.3 Service indicator

The service indicator shows if the pump has an error.

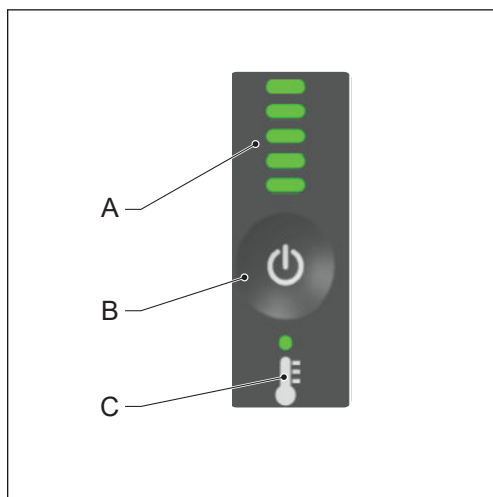
Color	Condition	Description
	Color: green	Normal operation
	Color: yellow	The sensor has an error. The pump can be used. The operation of the pump is limited.
	Color: red, flashing	The pump cannot be used.

3.8.4 Temperature indicator - Pump

The temperature indicator shows if the pump operates at normal temperature.

Color	Condition	Description
	Color: green	Normal operation
	Color: red	The pump is almost too hot. Motor >130 °C (266 °F) Controller 75 °C (167 °F)
	Color: red, flashing	The pump is too hot and does not operate. Motor >150 °C (302 °F) Controller >90 °C (194 °F)

3.8.5 Overview of the user interface - Battery pack



A State-of-charge indicator - Battery pack

B On/off switch

C Temperature indicator - Battery pack






















3.8.6 State-of-charge indicator

The battery pack has a LED indicator that shows the approximate state of charge of the battery pack. Each LED accounts for approximately 20% of the full charge.








Note

The state of health of the battery pack is shown on the battery pack charger.

	Battery pack discharging			Battery pack on or connected to the battery pack charger			
Pump OFF, All LEDs: off 		Color: green	80 – 100%	Battery pack not charging Color: green		Battery pack charging Color: green	
		Color: green	60 – 80%		100%		100%
		Color: green	40 – 60%		80 – 100%		80 – 100%
Error. all LEDs: red, flashing 		Color: orange	20 – 40%		60 – 80%		60 – 80%
		Color: red	10 – 20%		40 – 60%		40 – 60%
		Color: red, flashing	<10%		20 – 40%		20 – 40%
			0%		0 – 20%		0 – 20%

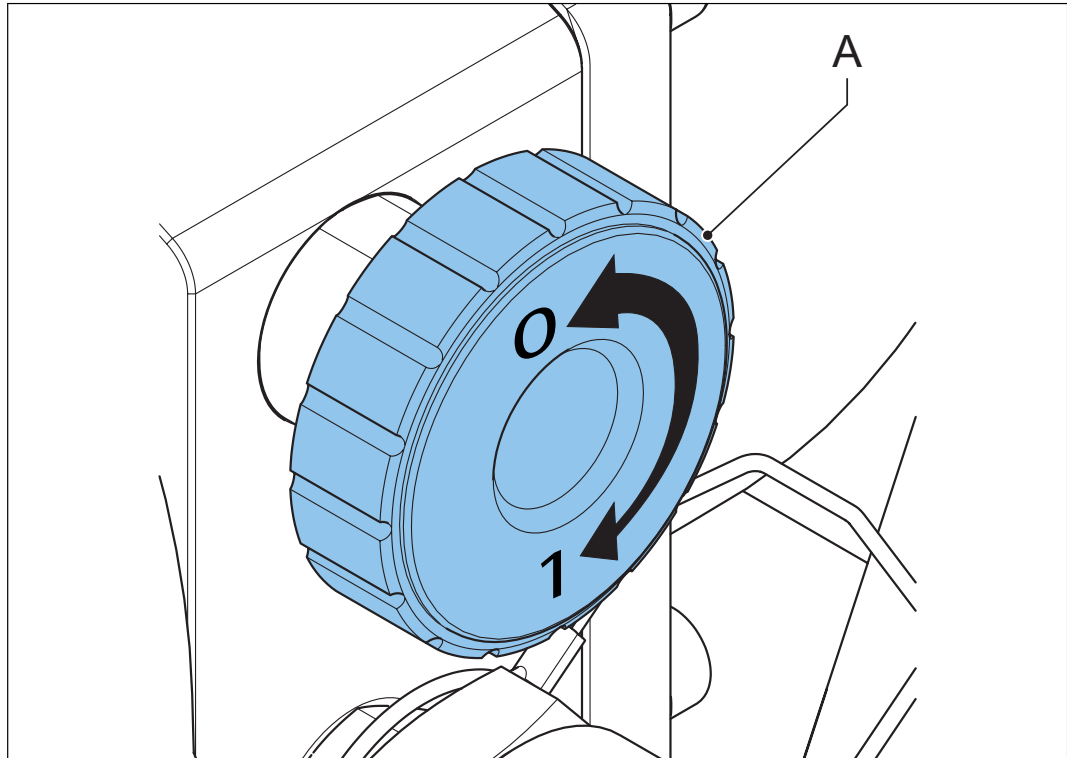
3.8.7

Temperature indicator - Battery pack

Color	Condition	Pump	Description
	Color: green	OK	The temperature is correct.
	Color: red	OK	The battery pack is almost too hot.
	Color: red, flashing	Stopped	The battery pack is too hot.
	Color: blue	OK	The battery pack is almost too cold.
	Color: blue, flashing	Stopped	The battery pack is too cold.

3.9 Functions

3.9.1 Pressure relief valve



A Pressure relief valve

3.9.2 Pump mode button

Pump mode	Description
1	Slow pump mode
2	Fast pump mode
3	<p>Emergency procedure if the pendant is defective or lost. You can hold the button for 10 seconds to activate the emergency procedure.</p> <p>Pump mode 1 and holding the mode button to pressurize side A until the stall pressure is reached.</p> <p>This pump mode is only available through the interface of the pump.</p>

3.9.3 Pump mode button on the pendant

Pump mode	Description
1	Slow pump mode
2	Fast pump mode

3.9.4 Activation button



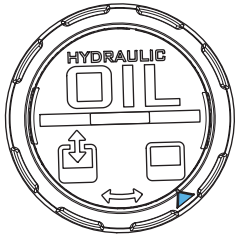
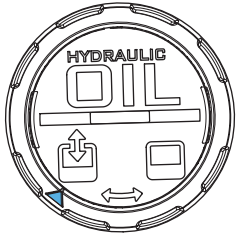
Note

If the stall pressure is reached, the motor speed will be set to 0 RPM and you will hear a beep sound.

Button	Description
Activation button	To set the pressure side on the coupler.

3.9.5 Tank cap

The tank cap can be set to ventilation mode and non-ventilation mode. The small triangle on the edge on the tank cap shows the mode that is set.

Setting	Mode
	Non-ventilation mode
	Ventilation

3.9.6 High-Flow couplers

The High-Flow couplers are the screw-on couplers used on single hoses. High-Flow couplers are screwed to each other.

3.10 Accessories

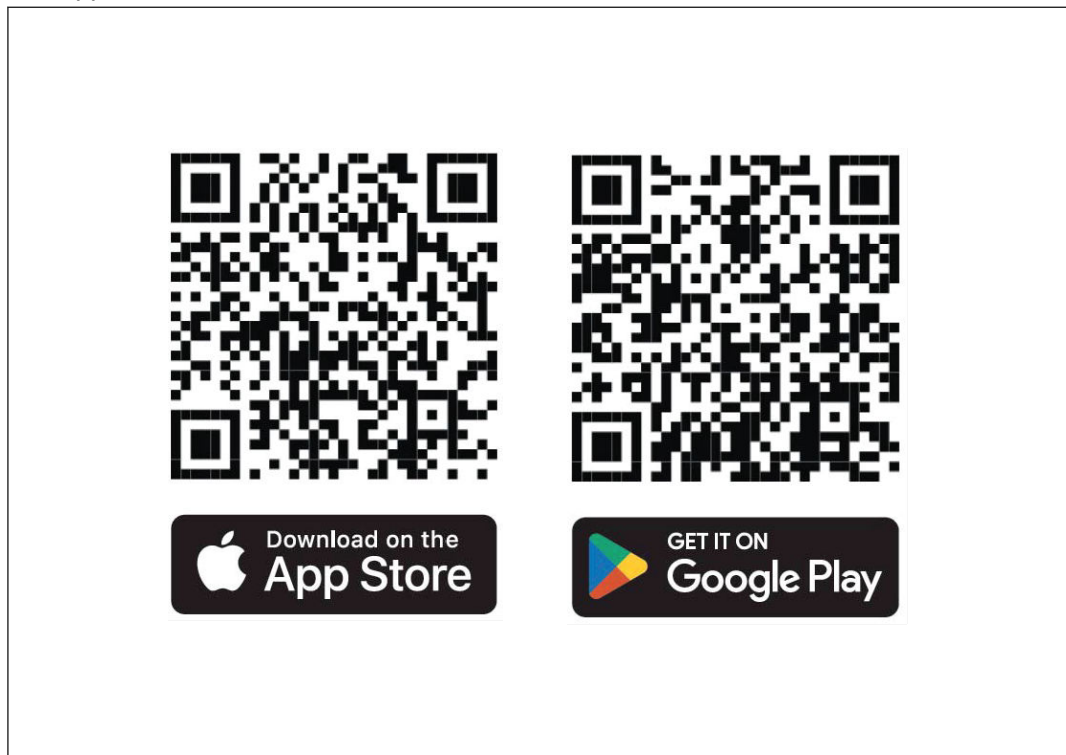
Accessory	Part number
Mains connector PMC1 (EU)	151.000.633
Battery pack PBPA288 (IP68)	101.003.240
Battery pack charger PBCH1 (AC-EU)	101.003.242
Battery pack charger PBCH5 (AC-UK)	101.003.243
Battery pack charger PBCH2 (AC-US)	101.003.244
Pressure release A 119	100.181.841

3.11 MyHolmatro app

You can use the MyHolmatro app. Bluetooth can be used to connect the product with a mobile device for:

- Realtime hydraulic pressure indication
- Basic diagnostics of the product

The app is available via these links:



Parameter	Unit	Specification
Maximum working pressure	bar/Mpa	720/72
	psi	10443
Hydraulic oil type		ISO-L HV VG 36
Capacity of the hydraulic oil tank	cc	2000
Stage 1 output / min	cc	3100
Stage 5 output / min	cc	500
Operating temperature	°C	-20 – +55
	°F	-4 – +131
Vibration level	m/s ²	< 2.5
Protection rate		IP44
Sound emission at 1 m (40 inch)	dB(A)	75
BLE frequency range	MHz	2400–2483.5
BLE maximum output power	dBm	0.7
Uncertainty	dB	±3.4

3.12.2 General specifications - Battery pack

Parameter	Unit	Specification
		PBPA288
Voltage	V _{DC}	28
Capacity	A	8
Energy	Wh	202
Battery type		Li-Ion
Protection rate		IP68

Table continued...

Description

Parameter	Unit	Specification
		PBPA288
Weight	kg	1.6
	lb	3.5
Operating temperature	°C	-20 – +55
	°F	-4 – +131

4 Operation

4.1 Before operation

4.1.1 Prepare for operation



Warning

Before you use the pump, make sure that you set the tank cap to ventilation mode to prevent overpressure. Refer to section 'Set the mode of the tank cap of the oil tank'.



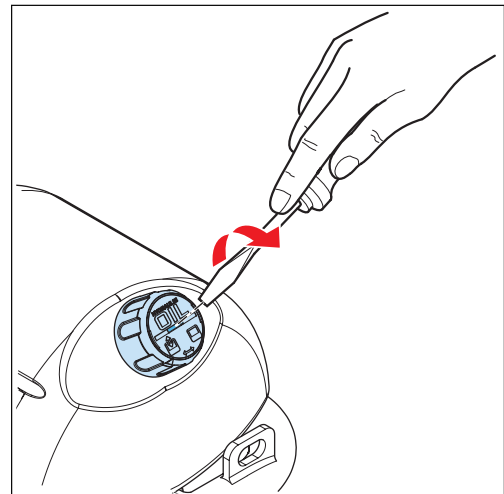
Warning

Use the pump only for tools that require a hydraulic oil volume that is less than the maximum available oil volume.

1. Make sure that the pump is complete and has no damage. If the pump has damage, do not use the pump. Contact the Holmatro dealer.
2. Make sure that the pump is placed horizontally on a solid level base.
3. Make sure that the tank cap is in ventilation mode.
4. Make sure that the oil level is sufficient.
5. Make sure that the pressure relief valve is closed.
6. Make sure that the battery pack is fully charged.
7. Make sure that the hoses are correctly connected to the tool and the pump.
8. Make sure that the pendant is correctly connected to the pump.
9. Install the battery pack.

4.1.2 Set the mode of the tank cap of the oil tank

1. Put a screwdriver in the tank cap.
2. Turn the screwdriver to set the mode of the tank cap.



4.1.3 Charge the battery pack

- Read the instructions of the battery pack charger before you charge the battery pack.
- Only use battery pack chargers that are specified by Holmatro.
- Use the state-of-charge indicator to see the status of the battery pack.

- Charge the battery pack in a dry environment at a temperature between 18 °C and 24 °C (64 °F and 75 °F) for the best results and longest life of the battery pack.
- Charge and discharge the battery pack regularly for the maximum capacity of the battery pack. The battery pack can stay connected to the battery pack charger for an indefinite period of time, because it is protected against overcharging.
- Always charge the battery pack after use.
- When the battery pack is not in use, keep the battery pack connected to the battery pack charger (connected to a power source) at all times. When the battery pack is full, the battery pack charger automatically switches on and off at regular intervals to keep the battery pack level at 100%.

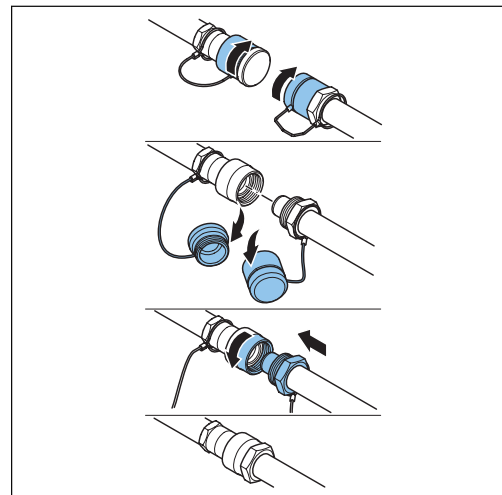
4.1.4 Connect the hoses - High-Flow couplers



Warning

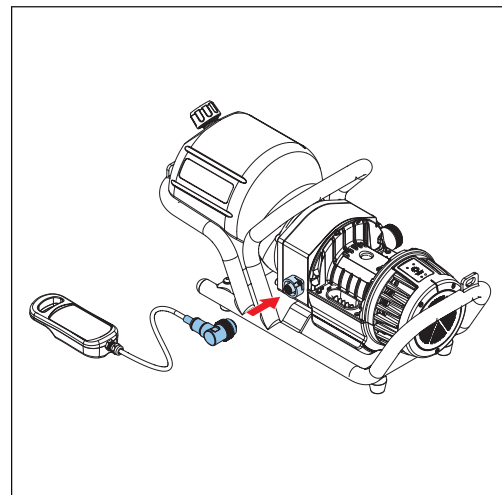
- Make sure that the tool has two male or female High-Flow couplers.
- Do not use couplers with damage.
- Before you connect the hoses to the tool, make sure that the pressure is removed. Use mode 3 to remove the pressure from the system.
- Do not use pliers or similar tools to connect the couplers.

1. Remove the dust caps from the female and male couplers.
2. If necessary, clean the male and female couplers.
3. Screw the male coupler into the female coupler.
4. Tighten the locking ring.
5. Screw the dust caps together to prevent contamination.

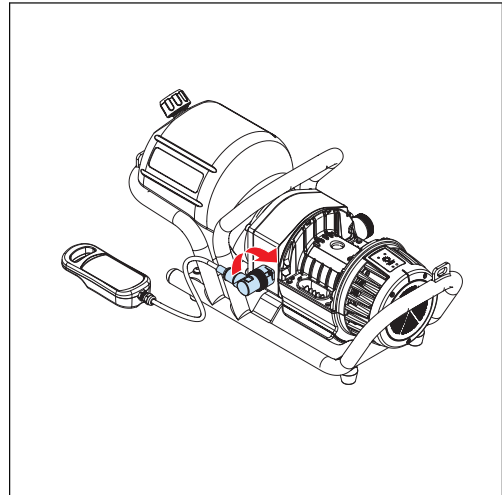


4.1.5 Connect the pendant

1. Push the pendant on the pendant connector.



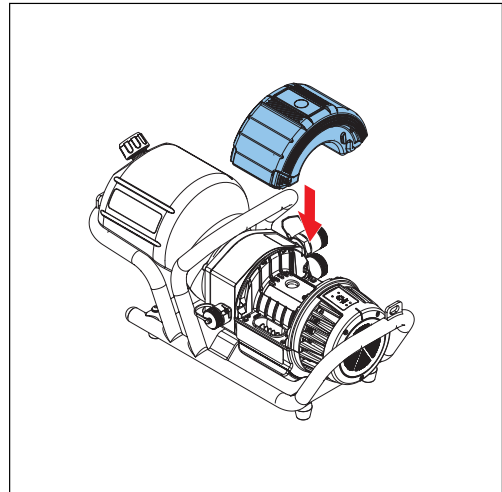
2. Turn the ring on the pendant connector until the pendant is attached.



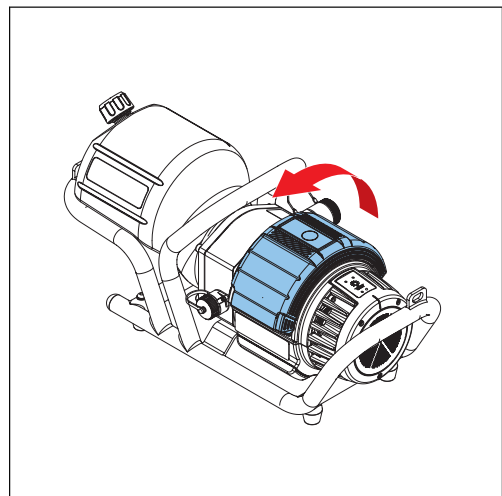
4.1.6

Install the battery pack

1. Put the battery pack in the battery pack fitting.



2. Push the battery pack until the battery pack locks into place.



4.2 During operation

4.2.1 Start the pump

**Note**

If you do not use the pump for more than 10 minutes, the battery pack stops. You can push the on/off switch to start the pump again.

Push the on/off switch on the battery pack to start the pump. The indicators will come on.

4.2.2 Operate the pump with the pendant

**Note**

If the button on the pendant is released, the pump stops. The pump has pressure holding valves to make sure that the pressure stays in the connected tool.

1. Press and hold the activation button on the pendant to put pressure on the tool.

**Note**

When maximum pressure is reached the pump will stop and give a sound signal.

2. To release the pressure, turn the pressure relief valve counterclockwise to open the valve.
3. When the pressure is released, turn the pressure relief valve clockwise to close the valve.
4. To start the pump again, press and hold the activation button on the pendant again.

4.2.3 Change the battery pack

The battery pack has an indicator that shows the approximate level of the battery pack.

**Notice**

- Many cycles in a short time can cause the temperature to increase above the allowed limits. The pump works slower to prevent that the battery pack stops.
- The use of battery pack at temperatures above 45 °C (113 °F) decreases the life time of the battery pack.

1. Remove the battery pack. Refer to section 'Remove the battery pack'.
2. Install a different battery pack. Refer to section 'Install the battery pack'.

4.2.4 Change the tool

1. Stop the pump.
2. Release the pressure from the pump.
3. Disconnect the hoses.
4. Change the tool.
5. Connect the hoses.

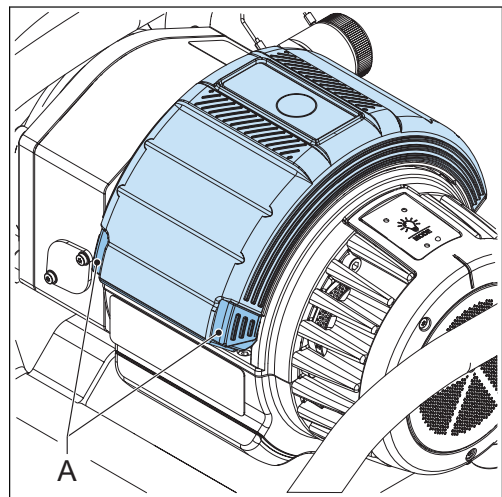
4.3 After operation

4.3.1 Stop the pump

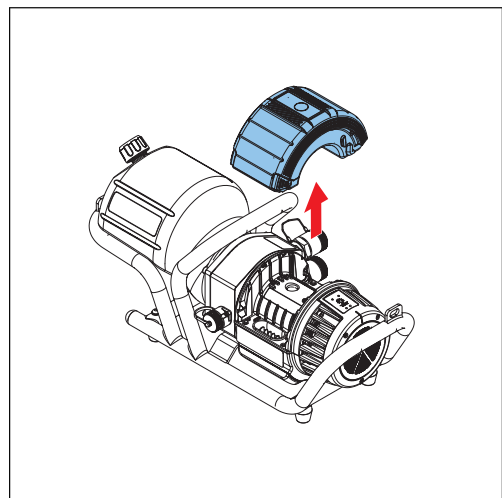
Push the on/off switch on the battery pack to stop the pump. The indicators will go off.

4.3.2 Remove the battery pack

1. Push the on/off switch to set the tool to off.
2. Push the release buttons (A) of the battery pack.



3. Remove the battery pack.



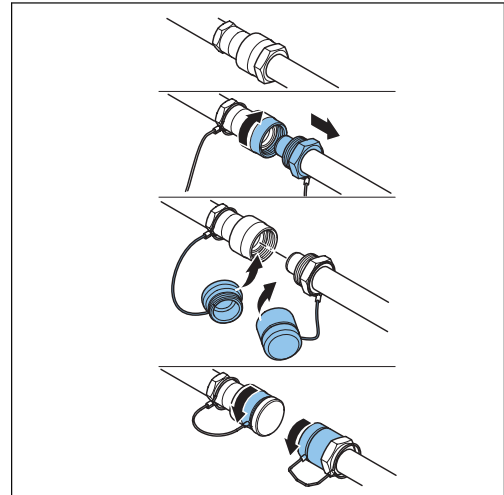
4.3.3 Disconnect the hoses - High-Flow couplers



Warning

- Before you connect the hoses to the tool, make sure that the pressure is removed. Use mode 3 to remove the pressure from the system.
- Do not use pliers or similar tools to disconnect the couplers.

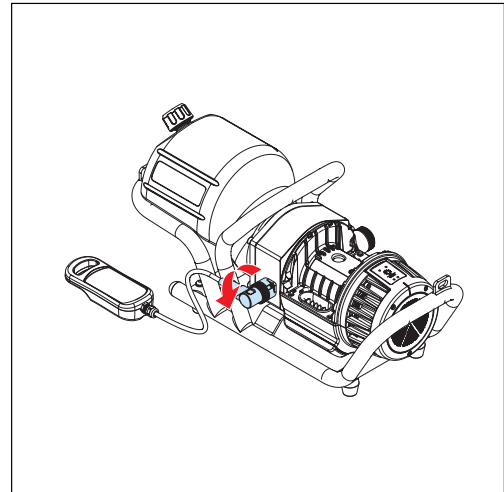
1. Disconnect the dust caps together.
2. Loosen the locking ring on the female coupler to disconnect the male coupler.
3. Clean the couplers and the dust caps.
4. Install the dust caps on the couplers.



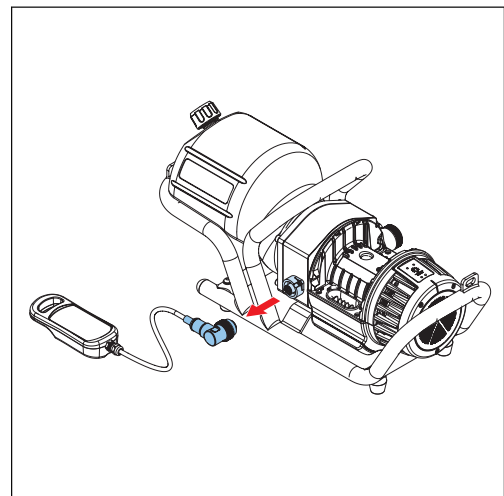
4.3.4

Disconnect the pendant

1. Turn the ring on the pendant connector until you can remove the pendant.



2. Remove the pendant from the pendant connector.



4.3.5

Do an inspection of the pump

1. If necessary, charge the battery pack.

2. Do an inspection for completeness, damage and leaks.
3. Do a check of the level of the oil. If necessary, add oil.
4. If a part is not complete, has damage or leaks, contact the Holmatro dealer.

5 Maintenance

5.1 General maintenance instructions



Caution

When you do maintenance, make sure that you comply with the relevant safety regulations. Wear the prescribed personal protection equipment.

- Make sure that you do the correct preventive maintenance. The correct preventive maintenance keeps the operational safety at the same level and extends the life of the product.
- Specify the model and serial number of the product for malfunctions or repair.

5.2 Maintenance instructions for dangerous substances



Caution

Make sure that you collect and dispose used or leaked fluids, and any other products consumed during maintenance in an environmentally responsible way.

5.3 Maintenance materials

Application	Type of maintenance material	Amount
Steel parts	WD-40 preservative oil	As necessary
Couplers	WD-40 preservative oil	As necessary
Long-term preservation	Tectyl ML from Valvoline	As necessary



Note

Contact the Holmatro dealer for information on spare parts.

5.4 Maintenance schedule

Part	Action	After every use	Weekly or after every 10 working hours	Yearly
Couplers	Check Clean Lubricate	X	X	X

Table continued...

Part	Action	After every use	Weekly or after every 10 working hours	Yearly
Hoses	Check			X
Dust caps	Check Clean Lubricate	X	X	X
Oil	Check	X	X	X
	Change		X	X
Pump	Check		X	X
	Clean			
Battery pack	Check	X		
	Charge	X	X	


Note

Yearly inspections are done by your Holmatro dealer.

5.5 Maintenance procedures

5.5.1 General maintenance instructions

- Make sure that the pump operates correctly.
- After operation, do a check of the parts.
- If the pump does not operate correctly, has damage or leaks, contact a Holmatro certified technician.

5.5.2 Do a check of the oil level

1. Remove the tank cap.
2. If the level of the oil is below the lower marking on the dipstick, fill the tank with oil until the level of oil is at or above the lower marking.
3. Install the tank cap.
4. Tighten the tank cap.

5.5.3 Change the oil


Warning

Make sure that you collect and dispose the oil in an environmentally safe way.

**Caution**

- Make sure that you use the correct oil.
- Make sure that no dirt or dust can go into the tank.

1. Remove the tank cap.
2. Let the oil flow from the tank into a container that can hold the maximum volume of the tank.
3. If the oil is very dirty, clean the tank and oil filters.
4. Fill the tank with oil.
5. Do a check of the level of the oil. Refer to section 'Do a check of the level of the oil'.
6. Install the tank cap.
7. Tighten the tank cap.
8. Set the mode of the tank cap to ventilation mode. Refer to section 'Set the mode of the tank cap'.
9. Connect the pump to a tool.
10. Start the pump. Refer to section 'Start the pump'.
11. Let the oil flow through the tool for 2 minutes.
12. Stop the pump. Refer to section 'Stop the pump'.
13. Disconnect the tool.

5.5.4 Do a check of the couplers

1. Connect the couplers.
2. Make sure that the couplers lock automatically.
3. Pull the hoses with normal force to make sure that the couplers do not slip.
4. Make sure that the couplers have no damage.
5. If the couplers have damage, make sure that a Holmatro certified technician replaces the couplers.

5.5.5 Do a check of the dust caps

1. Make sure that the dust caps have no damage.
2. If the dust caps have damage, replace the dust caps.

5.5.6 Do a check of the hoses**Warning**

Make sure that the system is depressurized.

**Warning**

Make sure that the hoses are not older than 6 years from the date of manufacture.

1. Make sure that the hose bend restrictors are installed and have no damage.
2. Make sure that the hoses have no damage.
3. If the hoses have damage, make sure that a Holmatro certified technician replaces the hoses.

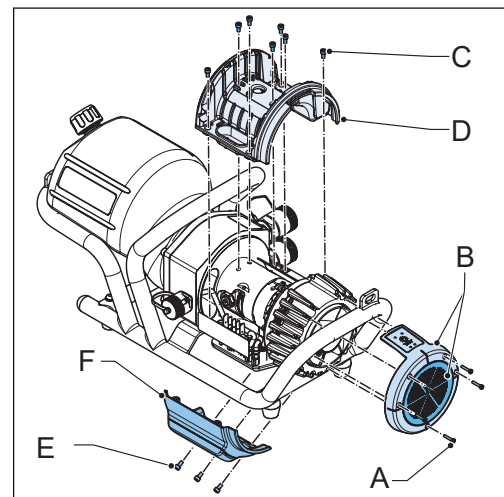
5.6 Cleaning

5.6.1 Clean after use

1. Do a check of all tools, the pump and accessories for completeness, operation and damage. If the tool has oil leakage or damage, do not use the tool. Contact the Holmatro dealer.
2. Remove any dirt with a brush and water.
3. Dry the pump.
4. Lubricate all exposed steel parts with a rust inhibitor and moisture repellent.
5. Store the pump in a dry and well-ventilated area.

5.6.2 Clean after use in wet conditions

1. Remove the battery pack.
2. Flush the pump, battery pack and accessories 5 times with fresh and clean water.
3. If you used the pump in wet conditions, remove the covers to remove residual dirt.
 - a) Remove the 5 screws (A) from the control handle ring.
 - b) Remove the control handle ring and fan cover (B).
 - c) Remove the 8 screws (C) from the top cover (D).
 - d) Remove the top cover (D). Do not disconnect the wiring.
 - e) Remove the 6 screws (E) from the bottom covers (F).
 - f) Remove the 2 bottom covers (F).
4. Flush the inner parts with fresh and clean water.
5. Remove water and dirt with compressed air.
6. Lubricate all exposed steel parts with a rust inhibitor and moisture repellent.
7. Let the pump, battery pack and accessories dry in the air at room temperature.
8. Install the covers.
 - a) Install the 2 bottom covers (F).
 - b) Install the 6 screws (E) of the bottom cover (F).
 - c) Install the top cover (D).
 - d) Install the 8 screws (C) of the top cover.
 - e) Install the control handle ring and fan cover (B).



- f) Install the 5 screws (A) of the control handle ring.
- 9. Store the pump in a dry and well-ventilated area.

5.7 Yearly dealer maintenance

We recommend that the product is inspected, checked, set and tested once a year by a Holmatro Certified Technician who has the appropriate knowledge and the necessary tools. Refer to section 'Guarantee'. The Holmatro dealer can organize the yearly maintenance on a contract basis.

6 Storage

6.1 Temporary storage

**Note**

When the battery pack is not in use, we recommend to keep the battery pack connected to the battery pack charger (connected to a power source). When the battery pack is full, the charging stops automatically and starts again to keep the level of the battery pack at 100%.

- Make sure that the pump is cooled down.
- Clean the pump before storage.
- Clean the couplers. Make sure that the dust caps are attached.
- Store the pump and the battery pack in a dry, well-ventilated and dust-free area.
- Store the battery pack in a dry and cool area. Make sure that the temperature is not more than 40 °C (104 °F) to prevent a negative effect on the life cycle of the battery pack.
- Fasten the pump so it can not fall over to prevent oil leaking.
- Make sure that the on/off switch is set to off.
- Make sure that the product cannot fall over during transport.
- Set the tank cap to non-ventilation mode.

6.2 Long-term storage

**Warning**

Avoid short-circuiting the battery pack. Make sure that the connections do not come in contact with metal objects or water. Do not open the battery pack.

**Caution**

Remove the battery pack from the pump. If the battery pack is not removed from the pump, a fully charged battery pack discharges in 3 months. Connect the battery pack to the charger with the on-tool charge cable to prevent discharge.

**Caution**

Make sure that you charge the battery pack at a minimum of one time in a year. If the battery pack is removed from the tool and the battery pack is not recharged, the battery pack slowly loses the charge.

1. For long-term storage, do the instructions as for the temporary storage.
2. Remove the battery pack from the pump.



7 Troubleshooting

7.1 General troubleshooting instructions



- If the listed solutions do not give the desired result, or in case of other problems, consult the Holmatro dealer.
- Specify the model and serial number of the product for malfunctions or repair.

7.2 Indicators

7.2.1 Service indicator

Color	Condition	Action
	Color: yellow	A sensor has an error or the sensor is broken. You can use the pump. The operation of the pump is limited. Contact the Holmatro dealer for maintenance.
	Color: red, flashing	Do not use the pump. Contact the Holmatro dealer for maintenance.

7.2.2 Temperature indicator - Pump

Color	Condition	Action
	Color: red	No action necessary. The pump cools down automatically depending on the temperature.
	Color: red, flashing	Cool down the pump.

7.2.3 Temperature indicator - Battery pack





Color	Condition	Pump	Action
	Color: red	OK	Be prepared to cool or replace the battery pack.
	Color: red, flashing	Stopped	Cool or replace the battery pack.

Table continued...

Color	Condition	Pump	Action
	Color: blue	OK	No action necessary. The battery pack can be charged or used. The battery pack will warm up automatically.
	Color: blue, flashing	Stopped	Warm up or replace the battery pack.

7.3

Troubleshooting table

Problem	Possible cause	Possible solution
The pump does not operate when the pendant is operated.	The battery pack condition is poor.	<ul style="list-style-type: none"> Make sure the battery pack is fully charged. Replace the battery pack with a fully charged battery pack.
	The pump does not start.	Set the on/off switch to on. The LED light comes on.
	The battery pack is in sleep mode. If you do not use the pump for about 10 minutes, the battery pack is set to sleep mode.	Set the on/off switch to on. The LED light comes on.
	The electric motor does not operate.	Repair the electric motor. Contact a Holmatro certified technician.
	The temperature indicator of the pump flashes.	Refer to section 'Temperature indicator - Pump'.
	The temperature indicator of the battery pack flashes.	Refer to section 'Temperature indicator - Battery pack'.
	The pendant is not connected.	Connect the pendant. Refer to section 'Connect the pendant'.

Table continued...

Problem	Possible cause	Possible solution
The LED light does not come on when you start the pump.	The battery pack is not locked.	Remove the battery pack. Install the battery pack. Make sure that the battery pack locks into place.
	The battery pack is in sleep mode. If you do not use the pump for about 10 minutes, the battery pack is set to sleep mode.	Set the on/off switch to on. The LED light comes on.
	The buttons of the pendant are pushed when you set the pump to on.	Push the on/off switch.
The useful operating time between the charging cycles of the battery pack is very short.	The battery pack is worn out.	Replace the battery pack.
The pump operates at slow speed.	The battery pack is empty.	Replace the battery pack.
	Mode 1 is active.	Set to mode 2. Refer to section 'Pump mode button'.
	The temperature of the pump is too high.	Let the pump cool down.

Table continued...

Problem	Possible cause	Possible solution
<p>The couplers do not connect or disconnect.</p>	<p>The couplers are dirty on the front.</p>	<p>Clean the couplers.</p>
	<p>The pump and/or hose are under pressure. This can occur because of temperature fluctuations during storage and transport.</p>	<p>Use the pressure relief tool to release the pressure.</p>
	<p>The pump is under pressure.</p>	<p>Refer to section 'Remove the pressure in the pump'.</p>
	<p>The female coupler is defective.</p>	<p>Repair the female coupler. Contact a Holmatro certified technician.</p>
	<p>The couplers are not correctly put in line with each other to connect.</p>	<p>Put both couplers correctly in line with each other. Press the couplers together in one smooth action to fasten them.</p>
	<p>The couplers are not correctly put in line with each other to disconnect.</p>	<p>Support and guide the male coupler when you disconnect the couplers.</p>
<p>The couplers do not stay connected.</p>	<p>The locking mechanism in the female coupler does not operate.</p>	<ul style="list-style-type: none"> • Clean the female coupler with clean running water. • Dry the female coupler. Apply preservative oil on the inside of the external ring. • Install and remove the dust cap or male coupler repeatedly until the external ring springs back.
	<p>The pump is under pressure.</p>	<p>Refer to section 'Remove the pressure in the pump'.</p>
	<p>The female coupler is defective.</p>	<p>Repair the female coupler. Contact a Holmatro certified technician.</p>

Table continued...

Problem	Possible cause	Possible solution
The pump does not operate or does not operate correctly.	One or more couplers are not connected correctly.	Disconnect the couplers. Connect the couplers again.
	The level of the oil is too low.	Refer to section 'Do a check of the level of the oil'.
	There is air in the system.	Refer to section 'Set the cap of the oil tank to ventilation mode'.
	There is dirt in the pump filters.	Clean or replace the pump filters. Contact a Holmatro certified technician.
	The oil is too cold or too thick.	Use heat to increase the temperature of the pump to room temperature.
	The couplers between the drive and the pump is defective.	Repair the couplers. Contact a Holmatro certified technician.

7.4 Troubleshooting procedures

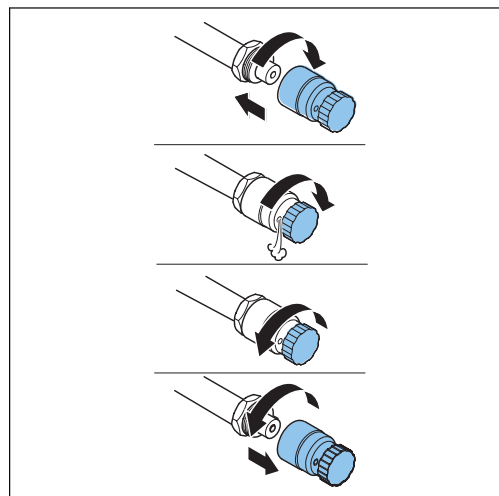
7.4.1 Remove the pressure in unconnected hoses or tools - High-Flow couplers



Note

Temperature differences can cause overpressure in unconnected hoses and tools. The overpressure can make it impossible to connect the parts. You can use the pressure relief tool to remove the overpressure. The pressure relief tool is available for the Holmatro hose systems and is supplied with the pump.

1. Turn the knob of the pressure relief tool counterclockwise to open the pressure relief tool.
2. Press the pressure relief tool on the coupler of the hose or tool.
3. Wrap a cloth around the pressure relief tool to prevent oil from gushing out. Make sure that the knob of the pressure relief tool can move freely.
4. Turn the knob clockwise to remove the pressure.
5. If the pressure is removed, turn the knob of the pressure relief tool counterclockwise.
6. Remove the pressure relief tool from the coupler of the hose or tool.



7.4.2 Remove the pressure in the tool



Note

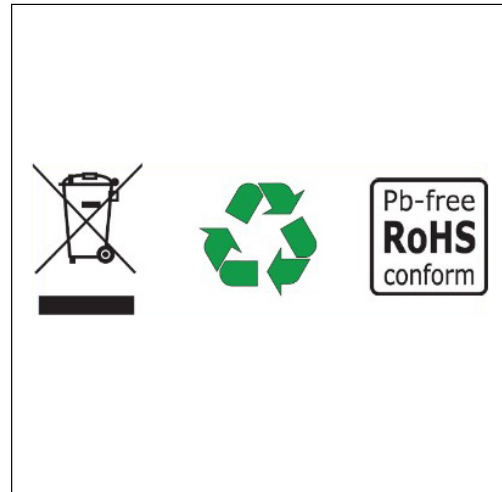
If you push the button on the pendant without hoses connected to the tool, the pressure can become too high. You can remove the pressure in the tool.

1. To release the pressure, turn the pressure relief valve counterclockwise to open the valve.
2. When the pressure is released, turn the pressure relief valve clockwise to close the valve.

8 Decommissioning and recycling

8.1 Decommissioning and recycling instructions

1. Consult the Holmatro dealer about recycling.
2. Make sure that the product is put out of service to avoid any use.
3. Make sure that the product does not contain any pressurized components.
4. Recycle the various materials used in the product such as steel, aluminum, nitrile butadiene rubber (NBR) and plastic.
5. Collect all dangerous substances separately and dispose of them in an environmentally responsible way.
6. Return the battery pack to your local Holmatro dealer for disposal.



Warning

It is prohibited to dispose the battery pack into the house- and residual waste removal (WEEE-Directive 2012/19/EU). The battery pack falls under the RoHS-directive 2011/65/EU (Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment).

9 Declaration of conformity

9.1 Declaration of conformity - EC

EC DECLARATION OF CONFORMITY OF THE EQUIPMENT

Manufacturer: Holmatro Hydraulic Solutions B.V.
Lissenveld 30, 4941 VL Raamsdonksveer, Netherlands

Declares that the following product:

Product type: Battery pump, models: HBP05D02, HBP05S02

Conforms to the requirements of the following Directives of the European Union:

2006/42/EG, Machine Directive

2014/53/EU, Radio Equipment Directive

And to relevant national legislation transposing these directives.

The above product is in conformity with these standards:

EN-ISO 12100:2010

EN-IEC 60529:1992/A2:2013

NEN-EN-IEC60204-1-2018

47 CFR PART 15, subpart B

ICES-003

EN 301 489-1 V2.2.3

EN 301 489-1 V2.3.2

EN 301 489-1 V3.2.4

EN 300 328-1 V2.2.2 (4.3.2.2.2;
4.3.2.9 and 4.3.2.10

EN 62479:2010

The notified Body Kiwa Nederland B.V., with notified body number 0063, has issued under the conformity assessment procedure as described in Annex III of the directive, the EU-type examination certificate: 232140149AA00

9.2 Declaration of conformity - UK

UK DECLARATION OF CONFORMITY OF THE EQUIPMENT

Manufacturer: Holmatro Hydraulic Solutions B.V.
Lissenveld 30, 4941 VL Raamsdonksveer, Netherlands

Table continued...

Declares that this declaration of conformity is issued under our sole responsibility and that the following product:

Product type: Battery pump, models: HBP05D02, HBP05S02

Conforms to the requirements of the following regulations:

Radio Regulations 2017

The above product is in conformity with these standards:

EN-ISO 12100:2010

EN-IEC 60529:1992/A2:2013

NEN-EN-IEC60204-1-2018

47 CFR PART 15, subpart B

ICES-003

EN 301 489-1 V2.2.3

EN 301 489-1 V2.3.2

EN 301 489-1 V3.2.4

EN 300 328-1 V2.2.2 (4.3.2.2.2;
4.3.2.9 and 4.3.2.10

EN 62479:2010

The UK Approved Body Kiwa Ltd. Approved Body Number 0558 performed:

B + C

Where applicable:

The issued UK type examination certificate: 232340070/AA/00

Description of accessories and components, including software, which allows the radio equipment to operate as intended covered by the UK DoC: Dongle BTD1

Contact information

Holmatro Hydraulic Solutions B.V.

Lissenveld 30 – P.O. Box 33

4941 VL Raamsdonksveer

The Netherlands

Tel: +31 (0) 162 75 15 00

Fax: +31 (0) 162 75 75 15 99

hydraulicsolutions@holmatro.com

www.holmatro.com