


# ROTHENBERGER

## RP PRO III

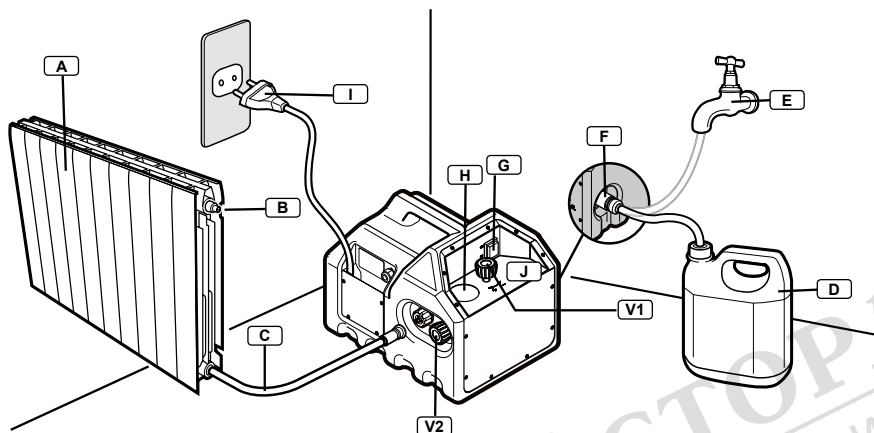


RP PRO III

 Bedienungsanleitung  
Instructions for use  
Instructions d'utilisation  
Instrucciones de uso  
Istruzioni d'uso  
Gebruiksaanwijzingen  
Instruções de utilização  
Brugsanvisning  
Bruksanvisning  
Bruksanvisning  
Käyttöohjeet  
Instrukcja użytkowania  
Kullanım talimatları  
Pokyny k použiti  
Használati utasítás  
Οδηγίες χρήσης  
Руководство по эксплуатации  
Lietošanas norādes



# Overview



## DEUTSCH

- A** Zu testendes Rohrleitungssystem oder Behälter
- B** Hauptentlüftung
- C** Hochdruckschlauch
- D** Wassertank
- E** Wassernetz
- F** Wasserversorgungsanschluss
- G** EIN-/AUS-Schalter der Motorpumpe
- H** Manometer
- I** Kabel mit Stecker
- J** Überbrückungsschalter
- V1** Druckregelventil
- V2** Schließen des Ventils V2 mit Griff

## ENGLISH

- A** Piping system or vessel to be tested
- B** Master bleeder
- C** High pressure hose
- D** Water tank
- E** Water mains
- F** Feeding water connector
- G** ON/OFF switch of the power pump
- H** Pressure gauge
- I** Cord with plug
- J** Override switch
- V1** Pressure adjusting valve
- V2** Closing valve V2 with knob

## FRANÇAIS

- A** Système de tuyauterie ou récipient à tester
- B** Purge principale
- C** Flexible haute pression
- D** Réservoir d'eau
- E** Réseau d'eau
- F** Connecteur d'eau d'alimentation
- G** Commutateur marche-arrêt de la pompe de puissance
- H** Pressostat
- I** Cordon avec prise
- J** Interrupteur prioritaire
- V1** Clapet de réglage de pression
- V2** Clapet de fermeture V2 avec bouton

## ESPAÑOL

- A** Sistema de tubería de prueba.
- B** Purga principal.
- C** Manguera de alta presión.
- D** Tanque de agua.
- E** Red de agua.
- F** Conexión de agua de alimentación.
- G** Interruptor ON/OFF de la electrobomba.
- H** Manómetro.
- I** Cable con enchufe.
- J** Limitador de intensidad
- V1** Válvula de regulación de presión.
- V2** Válvula de cierre V2.



**Page**

**Index**

<b>1</b>	<b>Safety instructions .....</b>	<b>13</b>
1.1	Safety in the work area.....	13
1.2	Electrical safety .....	13
1.3	Staff safety .....	13
1.4	Use and care of the electrical equipment .....	14
1.5	Maintenance.....	14
1.6	Special safety instructions.....	15
<b>2</b>	<b>Technical data .....</b>	<b>16</b>
<b>3</b>	<b>Use .....</b>	<b>16</b>
<b>4</b>	<b>Periodic maintenance .....</b>	<b>16</b>
<b>5</b>	<b>Repair and replacement of parts.....</b>	<b>16</b>
<b>6</b>	<b>Adjustment and maintenance .....</b>	<b>16</b>
<b>7</b>	<b>Faults, possible causes and repairs.....</b>	<b>17</b>



МАГАЗИН  
**БАШ МАЙСТОРА**<sup>®</sup>  
 ПРОФЕСИОНАЛНИ РЕШЕНИЯ



### Symbols in this document:



#### **Danger!**

This symbol warns that the user is in danger of injury.



#### **Attention!**

This symbol warns that there is a danger of causing material or environmental damage.



#### **Action required**



#### **Use of hearing protectors**

This symbol warns that hearing protectors should be worn in order to guarantee the worker's safety.



#### **Use of goggles obligatory**

This symbol warns that goggles should be worn in order to guarantee the worker's safety.



#### **Consult the manual or instructions book**

This symbol warns that the manual should be consulted in order to avoid risks.

## 1 Safety instructions



**Warning! Read all of the safety precautions, instructions, illustrations and specifications supplied with this electrical equipment. Failure to observe all of the instructions given below may result in electric shock, fire and/or serious injury. Keep all of the precautions and instructions for future reference.**

### 1.1 Safety in the work area

- a) **Keep the work area clean and well lit.** Untidy and dark areas can cause accidents.
- b) **Do not use electrical equipment in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Electrical equipment generates sparks that could set the dust or fumes alight.
- c) **Keep children and onlookers at a distance when using electrical equipment.** Distractions can cause loss of control.

### 1.2 Electrical safety

- a) **The electrical equipment's plug must be suitable for the electrical supply. Do not modify the plug under any circumstances. Do not use a plug adapter with earthed electrical equipment.** Unmodified plugs and the use of the corresponding sockets (230V or 110V) will reduce the risk of electric shock.
- b) **Avoid touching earthed surfaces, such as piping, radiators, chains or coolers.** The risk of electric shocks increases if the body is connected to earth.
- c) **Do not expose electrical equipment to rain or moist conditions.** Water getting into the equipment will increase the risk of electric shock.
- d) **Do not use the cord incorrectly. Never use the cord to carry, lift or unplug the electrical equipment. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or tangled cords increase the risk of electric shock.
- e) **When using electrical equipment outside, use an extension cord which is suitable for outdoor use.** Using an extension cord which is suitable for outdoor use reduces the risk of electric shock.
- f) **If using electrical equipment in moist conditions is unavoidable, use a power supply that is protected by a Residual Current Device (RCD).** Using an RCD reduces the risk of electric shock.
- g) **If the power cord has to be replaced, it must be replaced by the manufacturer or service agent in order to avoid a safety risk.**

### 1.3 Staff safety

- a) **Stay alert, check what you are doing and use common sense when handling electrical equipment. Do not use electrical equipment when you are tired or under the influence**



- of drugs, alcohol or medical products.** One moment of distraction while handling electrical equipment can cause serious injury.
- b) **Use personal protective equipment. Always wear eye protection.** Personal protection equipment such as dust masks, non-slip shoes, helmets or ear protection used for appropriate conditions reduce personal harm.
  - c) **Avoid accidental start-ups. Ensure that the switch is in the “off” position before connecting to the power supply and/or battery, picking up or moving the equipment.** Transporting electrical equipment while switched on and running is very dangerous and can cause an accident.
  - d) **Remove any keys or tools before turning the electrical equipment on.** A key or a tool connected to a rotating part of an electrical equipment may cause harm.
  - e) **Keep feet firmly on the ground and maintain your balance at all times.** This allows greater control of the electrical equipment in unexpected situations.
  - f) **Dress appropriately. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothing, jewellery or long hair can get caught in moving parts.
  - g) **Do not allow confidence gained through frequent use of the equipment to cause you to ignore the general safety principles.** One careless move can cause serious injury.

#### 1.4 Use and care of the electrical equipment

- a) **Do not force the electrical equipment. Use the electrical equipment in a way that is appropriate for your application.** Using the electrical equipment correctly will make work better and safer at the speed for which it was designed.
- b) **Do not use the electrical equipment if you are unable to move the switch from “on” to “off” and vice versa.** Any electrical equipment that you are unable to control with the switch is dangerous and should be repaired.
- c) **Unplug the power source plug and/or remove the battery, if possible, before making an adjustment, replacing an accessory or storing the electrical equipment.** Preventative measures like this reduce the risk of starting the equipment by accident.
- d) **Keep inactive electrical equipment out of the reach of children and do not allow people who are not familiar with the equipment or with these instructions to handle them.** Electrical equipment is dangerous in the hands of untrained users.
- e) **Maintain electrical equipment and accessories. Ensure that moving parts are not misaligned or blocked, that there are no broken parts and other conditions that may affect the operation of the electrical equipment. Electrical equipment should be repaired before use, when it is damaged.** Many accidents are caused by poorly maintained electrical equipment.
- f) **Use the electrical equipment, accessories and equipment tips, etc. in accordance with these instructions, bearing in mind the work conditions and the work to be carried out.** Using the electrical equipment for applications different from those intended may provoke a hazardous situation.
- g) **Keep handles and gripping surfaces dry, clean and free of oil and grease.** Slippery handles and gripping surfaces prevent safe gripping and control of the equipment in certain situations.

#### 1.5 Maintenance

- a) **Have your electrical equipment serviced by a qualified service technician and only use appropriate, genuine Rothenberger spare parts.** This guarantees that the safety of the electrical equipment is maintained.



## 1.6 Special safety instructions

This document contains important instructions for people's safety. It is intended for the user. Keep it in a safe place for future reference.

Read and follow these instructions closely every time that the test power pump is turned on:

1. Ensure that the electrical system has an appropriate RCD circuit-breaker.
2. Always disconnect the power pump after each test and before carrying out the following operations:
  - a. Moving the power pump from one position to another.
  - b. For maintenance.
  - c. For accessory and part replacement.
3. Do not pull on the electric cord, on the supply hose or on the high pressure hose connected to the piping system to move the power pump.
4. Never pull on the electrical supply cord to unplug it.
5. Never let unqualified people, children, adolescents, etc. or people who are not trained in the use of power pumps use the pump.
6. To guarantee the safety of the power pump, follow the manufacturer's instructions and only use original replacement parts, components and accessories or parts which have been authorised by the manufacturer.
7. Water nozzles can be very dangerous if used inappropriately: never point the water jet at people, animals, electrical equipment or the power pump itself.
8. Never use the water jet on yourself or other people to clean clothing or shoes.



**9. ATTENTION:** the hoses, accessories and couplings are very important for the safety of the power pump. Only use hoses, accessories and couplings which are recommended by the manufacturer.

10. Never use the power pump when the electrical supply cord or other important parts such as safety devices, high pressure hose, etc. are damaged.
11. If you have to use an extension cord, the plug and connector must be waterproof.
12. Inappropriate extension cords can be dangerous.
13. The user must take all of the safety precautions mentioned in this manual into consideration. Otherwise, misuse of the equipment can cause accidents and the manufacturer assumes no responsibility if this is due to the disregard of the safety precautions mentioned here.






Do not dispose of electrical equipment with domestic waste. In compliance with the Directive 2012/19/UE of the European Parliament and its transposition to the state legislation framework in the Royal Decree 208/2005 on electrical and electronic devices and the management of their waste, the objective is to prevent the generation of this waste, to reduce its elimination and the level of danger of its components, to promote the re-use of devices and the valorisation of their waste and determine a suitable way to manage this in an aim to improve the efficiency of environmental protection.





## 2 Technical data

Voltage.....	230 V, 50 Hz (110 V.), single-phase	  
Nominal power of the motor .....	1.3 Kw	
Rated current .....	6 A	
Protection class .....	IP20	
Maximum pressure .....	40 bar	
Nominal flow: max. ....	6 l/min	
Net weight of device: .....	16 Kg	
Total dimensions of device: .....	380 x 290 x 300 mm	
Supply water: .....	clean freshwater, Glycol, Tyfocor, Maximum temperature: 40°C	
High pressure hose: .....	Ø int. 1/4", 1.2 m. length	
Lubricant:.....	oil for 4-stroke engines SAE 15W/40	
Noise level: .....	no higher than 90 dB (A)	

## 3 Use

Pressure testing of seals on piping systems and vessels used in all types of installations. Hydraulic, heating, steam, refrigeration, oil, spraying installations, solar thermal systems, etc. Production of boilers (verification of tightness of coils) and pressure recipients or tanks, filling of circuits.

## 4 General maintenance

Before connecting the pump to electric sockets and water supplies:

- Carefully check the condition of the high pressure hose and the cord of the plug. If necessary, replace with new ones.
- Check the water filter (No. V121M37 - C Spare Parts). Clean it and replace it if necessary.

If the device is to be stored for a long period of time, it is recommendable to empty the water remaining in the internal circuits

Avoid storing the equipment in very cold places where there is a risk of freezing

Keep the water filter clean and in good condition

If the equipment is used with antifreeze agents such as Glycol, Tyfocor, etc. use the device with clean freshwater to clean out the internal circuits

## 5 Repair and replacement of parts

There is a maintenance Kit for the most accessible set of sealing gaskets (cod. R6.1186), which enables the replacement of the most commonly worn or eroded gaskets and prologues the power pump's lifespan.

The replacement of parts, servicing of the pump and electrical inspection should only be carried out by official Service Centres.

## 6 Operating instructions

- Open the master bleeder of the piping system or vessel to be drained (i.e. Fig B On appliance)
- Connect water inlet hose to hose connection on side of appliance (Fig F option A or B)  
Option A: Direct from water mains (Min pressure 1 BAR)  
Option B: Use **Clean water** from water storage container which should be placed no more than 1 meter MAX below pump level
- Connect high pressure hose, threaded 1/2" male end to 1/2" female connection beside control valve V2 on appliance and 1/2" female connection on high pressure hose to appropriate fitting on system to be tested
- Turn control valve V2 Anticlockwise fully to **OPEN**  
Turn control valve V1 Anticlockwise fully to **-BAR**
- Plug appliance into mains (Fig E On appliance). Power must be 230V 50 Hz \* **OR on 110V APPLIANCES USE A 3KVA TRANSFORMER ONLY!**





**!** Please note: This appliance is for testing only, NOT for filling a system. Using your RP PRO III to fill a system will damage or break the appliance! If system is empty, use another method to fill before pressure testing with your RP PRO III

Switch on appliance (Fig G On appliance) and allow to run until satisfied that the system is free of air via bleed point. Then switch off pump and close bleed point immediately!

6. To achieve the desired test pressure:
  - Turn on the pump (Making sure control valve V2 is fully **OPEN**)
  - Slowly turn control valve V1 clockwise to **+BAR**, increasing pressure till desired pressure is achieved. Use V1 to increase and decrease pressure as required!
  - Turn control valve V2 clockwise to **CLOSE**, then turn off pump **IMMEDIATELY!**
7. If reading on gauge has exceeded desired pressure. Keeping the pump **OFF**:
  - Carefully open V2 and turn V1 toward **-BAR** till you reach the desired pressure
  - Then close V2
8. When testing is complete:
  - Turn control valve V2 Anticlockwise fully to **OPEN**
  - Turn control valve V1 Anticlockwise fully to **-BAR**

**N.B. When storing appliance between uses and for long periods of time, open V1 & V2 fully then turn knobs back clockwise half a turn to prevent valves from sticking!**

## 7 Faults, possible causes and repairs

### Despite being switched on, the motor doesn't start

The electrical current isn't reaching the terminal box	Check the plug / socket connection. Check the length of the cords leading to the terminal box. Reassemble the motor's thermal protection or replace blown fuses. Return to Service Centre.
The electrical current is reaching the terminal box, but the voltage is very low	Connect the motor to a supply of 230V, 50 Hz. For 110V, please use 3KVA transformer.
Pump seized with ice. Motor rotor seized up	Return to an official Service Centre.

### The pump is working but the pressure isn't rising

Insufficient water supply	Check the supply hose: the inner diameter should not be less than 15 mm. Also, the water pressure at the outlet tap should not be less than 1 bar.
Considerable amount of air in the input water	<b>MAIN</b> Check fittings are tight and water supply is MIN 1bar with sufficient flow. <b>TANK</b> Check water tank is full and hose correctly submerged to draw water to pump.
Water filter is dirty	Clean the filter.
The pump's gaskets are in bad condition or the pump valves have seized up	Replace the sealing kit R6.1186.
V1 valve set to minimum pressure	Open the V1 valve until the desired pressure is attained.

### Discharge pressure irregular and making considerable noise

Air in the supply water	Check the seal at both ends of the supply hose.
Insufficient water supply	Check the supply hose: the inner diameter should not be less than 15 mm. Also, the water pressure at the outlet tap should not be less than 1 bar.

### The piping reaches the test pressure but doesn't maintain the desired pressure

V2 valve isn't working correctly	Check the operation of the V2 valve. Clean it and remove any dirt that the water may have carried inside. Return to Service Centre.
----------------------------------	---

