

**DRAPER**

**EN**

Original Instructions  
Version 1 – October 2025

230V STAINLESS STEEL

# **BOOSTER PUMP**

27483



**UK  
CA** **CE**

# 1. Preface

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**These are the original product instructions. Read the instruction manual in full and retain for future reference.**

Please visit [drapertools.com/manuals](https://drapertools.com/manuals) for the latest version of this manual and the associated parts list, if applicable.

## 1.1 Product Reference

**User Manual for:** 230v Stainless Steel Booster Pump

**Stock No:** 27483

**Part No:** BP5

## 1.2 Revisions

**Version 1:** October 2025

First release

As our manuals are continually updated, always ensure that the latest version is used.

**Download the latest version from:**  
[drapertools.com/manuals](https://drapertools.com/manuals)

## 1.3 Understanding the Safety Content of This Manual



**WARNING!** – Situations or actions that may result in personal injury or death.



**CAUTION!** – Situations or actions that may result in damage to the product or surroundings.

**ATTENTION** – Situations or actions that may result in damage to the product or surroundings.

**Important:** – Information or instructions of particular importance.

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## 3. Product Introduction

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### 3.1 Intended Use

This pump is designed for boosting or maintaining the pressure and flow rate of clear water within a home environment where the mains pressure is low. Ideal for increasing water pressure and flow to taps and shower heads.

**NOT** suitable for connecting directly to the water mains/ inlet coming into the property.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

### 3.2 Specification

Stock No.	27483
Part No.	BP5
Rated voltage:	230V/50Hz
Rated input:	800W
Tank size:	19L
Pressure gauge range:	0 – 6bar
Working pressure:	1.5 – 3bar
Air valve pressure:	2bar
Usage:	Clear water only
Operating temperature range:	0 - 35°C
Outlet aperture diameter:	25mm
Maximum flow rate:	50L/min
Maximum head height:	38M
Maximum suction height:	8M
Hose adaptor:	90° Elbow with 32mm thread/.25mm push fit
Maximum water temperature:	5 - 35°C
Power cord length (approx.):	1.5M
IP rating:	IPX4
Appliance class:	I
Net weight (including accessories):	11.2kg

**Important:** Read all the Health and Safety instructions before attempting to operate, maintain or repair this product. Failure to follow these instructions may result in injury or damage to the user or the product.

## 4.1 General Health and Safety Precautions

- Observe all standard safety precautions and good practices when working with electrical equipment and water.
- **DO NOT** modify this product in any way and **ONLY** use spare parts recommended by Draper Tools.
- Only use this product for its intended purpose.
- Keep your work environment clear and well-lit, with bystanders at a safe distance.
- Before each use inspect the pump for damaged, cracked, loose or corroded parts and any leakages.
  - **Important: DO NOT** use this pump if it is leaking or damaged. **DO NOT** attempt to disassemble and contact Draper Tools to discuss repair and replacement options.
- Keep the power cord away:
  - from oil, sharp edges and sources of heat.
  - from the water supply and other sources of moisture at all times.
- **NEVER** pull on the power cord to disconnect the plug from the socket.

## 4.2 Additional Safety Information for Booster Pump

- **ALWAYS** ensure the pump is switched off, unplugged from the power supply and has completely stopped before moving or making any adjustments or carrying out any cleaning or maintenance to the pump.
- **NEVER** use this product to pump or transport corrosive, flammable or explosive liquids or solvents.



### **DANGER! Risk of electric shock.**

- **DO NOT** operate the pump in a wet or humid environment.
- To reduce the risk of electric shocks, avoid contact with earthed objects during use.
- **Attention:** This pump must not be used for supplying potable water.

- **NEVER** pump water in the direction of people, electrical wiring or equipment.



### **WARNING! Risk of injury from liquid ejection!**

- Ensure the components are correctly installed and able to withstand the tank pressure.
- Ensure all the hose connections are the correct diameter and fully tightened before operating the pump.
- **DO NOT** use this product with a programmer, timer, separate remote-control system or any other device that switches the product on automatically, or on any circuit that is regularly switched on or off by the utility, as it may pose a hazard if it is switched on unattended.
- **DO NOT** use the pump if the switch does not turn it on and off.
- **NEVER** run the pump dry.
- **DO NOT** allow water to freeze in the pump.
- **NEVER** obstruct the outlet as this may severely damage the pump.
  - Stop the pump **IMMEDIATELY** if you suspect that the outlet or inlet may be blocked or jammed.
- **ALWAYS** use, transport and store this surface mounted pump horizontally on the base plate.
- **DO NOT** use the pump to boost directly from the water mains inlet into the house/property. Only use on the internal water supply.

## 4.3 Connection to the Power Supply

This appliance is supplied with an approved plug and cord for your safety.

If the power supply cord is damaged, it must be replaced by Draper Tools, an authorised service agent or similarly qualified personnel in order to avoid a hazard.

The damaged or incomplete plug, when cut from the cord, shall be disabled to prevent connection to a live electrical outlet.

This product is a Class I<sup>†</sup> appliance and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted

## 4. Health and Safety Information


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The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, use a small plain-slot screwdriver to remove the fuse cover. Ensure the substitute is of the correct rating, approved to BS 1362 and ASTA or BS Kite marked.



This should only be performed by suitably qualified personnel.

**Important:** If an extension lead is required, use an approved and compatible lead rated for this appliance. Unwind the entire lead and follow all the instructions supplied with the extension lead.

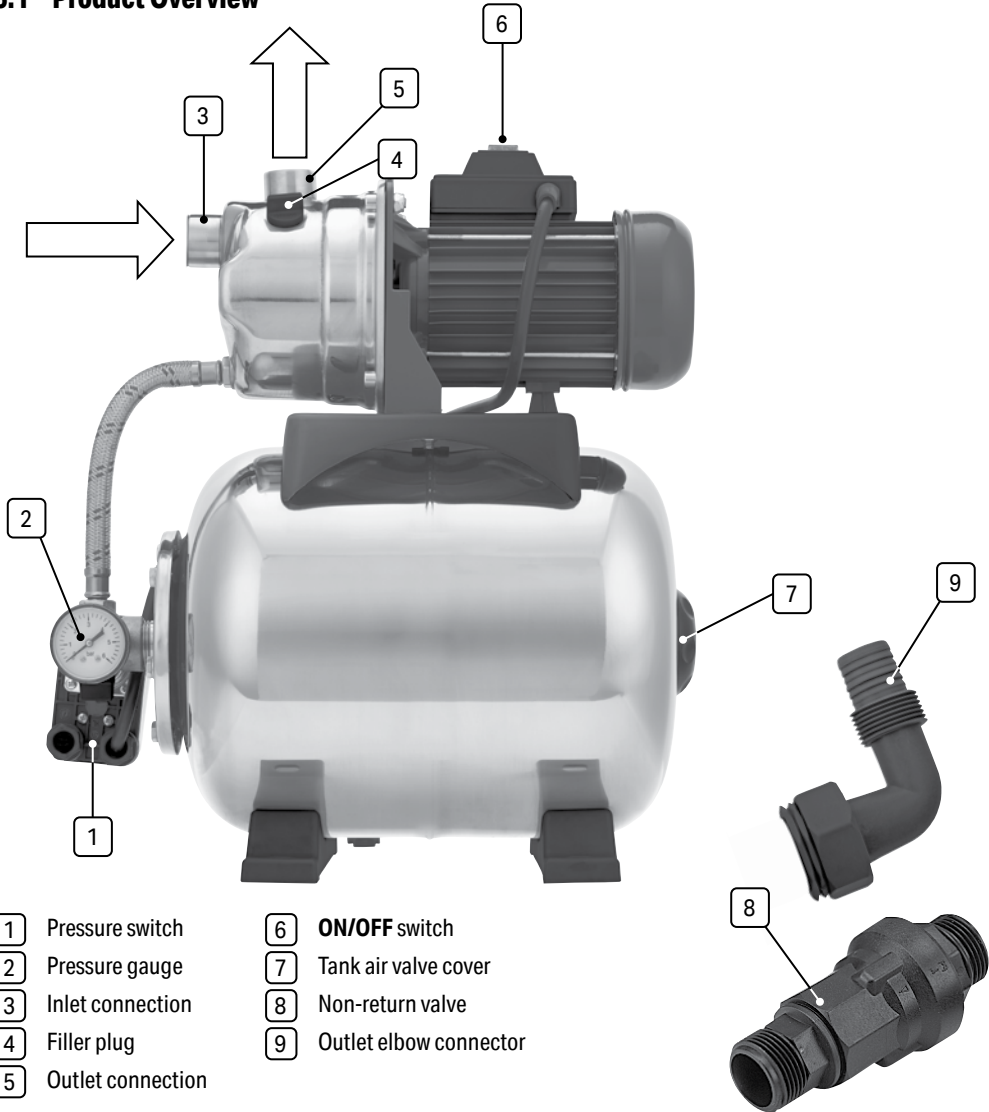
†Earthed : This product requires an earth connection to protect against electric shock from accessible conductive parts in the event of failure of the basic insulation.

**Important:** This product **MUST** be used with a RCD (residual current device) with a rated residual operating current of no greater than 30mA. If an extension lead is used, the RCD **MUST** be installed at the power outlet and not into the extension lead.

### 4.4 Residual Risk

The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.

## 5.1 Product Overview



- 1 Pressure switch
- 2 Pressure gauge
- 3 Inlet connection
- 4 Filler plug
- 5 Outlet connection
- 6 **ON/OFF** switch
- 7 Tank air valve cover
- 8 Non-return valve
- 9 Outlet elbow connector

## 5.2 Packaging

Keep the product packaging for the duration of the warranty period in case the product needs to be returned for repair.

**!** **WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.**

Please visit [drapertools.com](http://drapertools.com) for our full range of accessories and consumables.

## 6. Preparation Instructions

**Important:** Before preparing or adjusting this product, read and understand all the safety instructions listed in this manual.



**WARNING! ALWAYS ensure the pump is switched off, unplugged from the power supply before fitting the hoses or making any adjustments.**

- This product should be installed and maintained by a professional who is proficient and qualified. Installation and operation if fitted into the mains should be in accordance with local regulations and recognised operation standards.

### 6.1 Locating and Securing the Booster Pump (Fig.1)

- Find a suitable level, solid, dry and well-ventilated area to position the pump.
- The pump must be mounted horizontally to function correctly.
- Secure in place using four suitable nuts and bolts (not supplied).

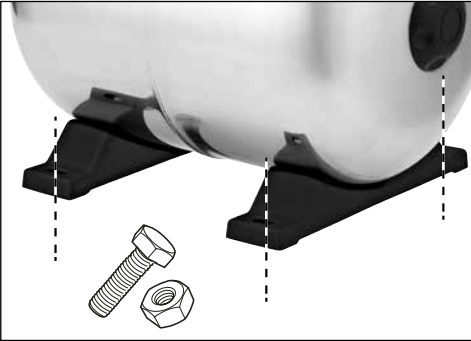


Fig. 1

### 6.2 Non-Return Valve (Fig.2)

- Screw the non-return valve **8** into the inlet port **3**.
- Ensure the non-return valve has the arrow pointing in the direction of the inlet and is watertight. Avoid overtighten as it may damage the threads.

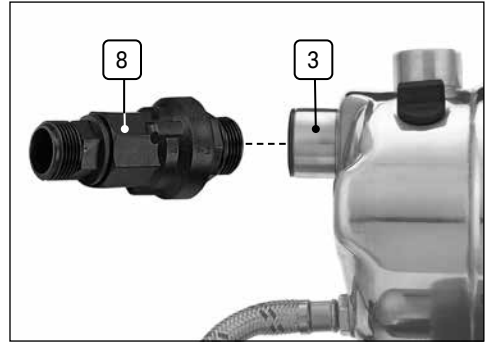


Fig. 2

### 6.3 Pressuring the Tank (Fig.3 - Fig.5)

- In order for the pump to operate correctly the air chamber must be pressurised.
1. Unscrew the cover **7** to access the air valve (Fig.3).

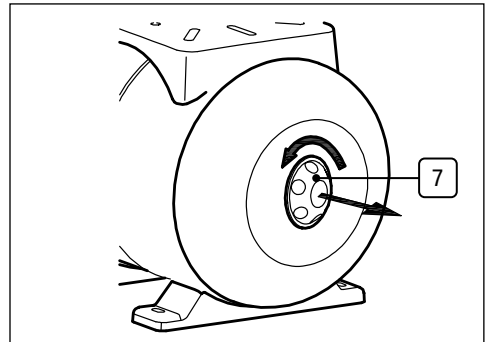


Fig. 3

2. Use an air line (Fig.4) or foot pump (Fig.5) to pressurise the tank (**Note:** set between 1.8 - 2bar).

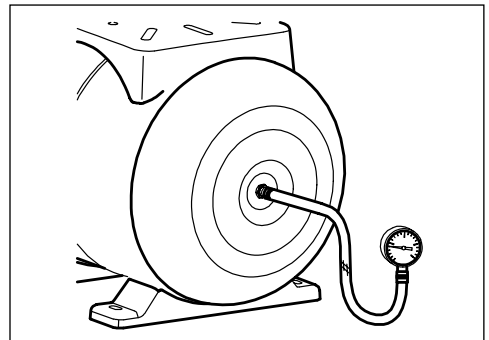


Fig. 4

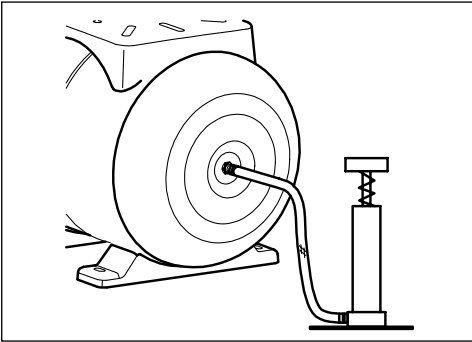


Fig. 5

3. Replace the cover when completed – take care not to overtighten.

**Important:** This procedure must be carried out before connecting to the water supply.

## 6.4 Fitting the Hose Connections (Fig.6 – Fig.7)

- The inner diameter of the suction and delivery hoses must match the diameter of the connections on the pump housing (25mm/1") and suitable for use with the working pressure rating of the pump. Ensure the connection threads are suitably sealed and there is no leakage.
1. Fit a suction hose after the non-return valve **(8)**.
  - Depending on the source of water an inlet filter may also be required.
  - Water reservoir/tank –The end of the suction hose should be always be submerged in the water during operation.
  - For the best flow rate the suction hose should be as short as possible and close to the water supply.
  - To avoid vibrations when connecting to the home water pipes use a flexible hose.
2. Attach the elbow connector **(9)** to the outlet **(5)**, then fit a suitable delivery hose.

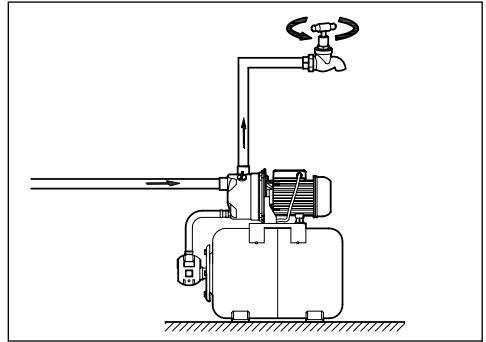


Fig. 6

### Examples for setup:

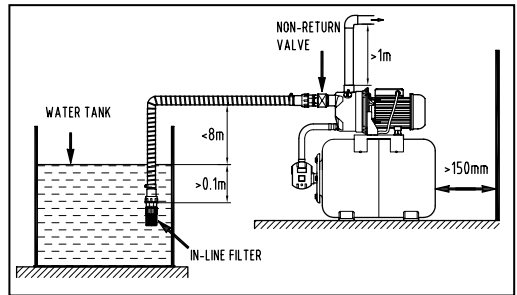
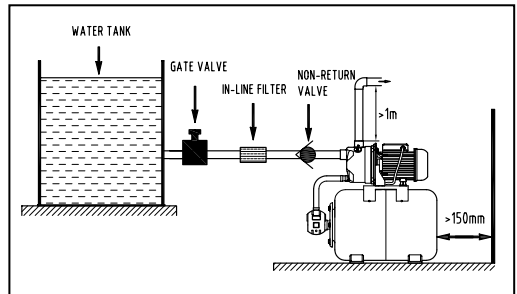


Fig. 7

# 7. Operating Instructions

**Important:** Before operating this pump, read and understand all the safety instructions listed in this manual. Ensure that the pump is prepared and positioned correctly before connecting to the power supply.

## 7.1 Priming the Pump (Fig.8)

- Although the pump is a 'self priming type', when using the pump for the first time or after draining for maintenance the pump must be primed.

**Note:** If the water supply is pressurised or fed by gravity, priming will not be required as the air will be purged from the system.

### Priming

- Remove the filler plug (4) and fill the pump slowly with water.
- Top up with water until all air is expelled.
- When the pump and tank are full, refit the plug.



Fig. 8

## 7.2 Pressure Switch

- The booster pump is fitted with a mechanical pressure switch (1) which is factory set. This does not require any adjustment by the user.

## 7.3 Pressure Gauge (Fig.9)

- Monitor the pressure gauge (2) during operation to ensure it is operating between 1.5 – 3bar.

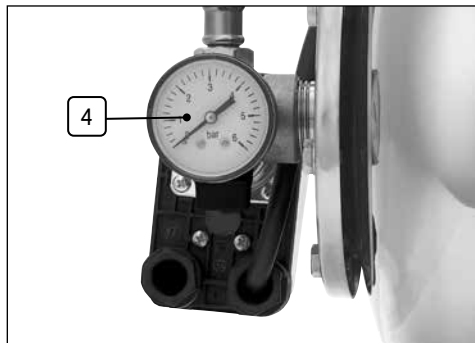


Fig. 9

## 7.4 Switching the Pump 'ON' and 'OFF' (Fig.10)

1. Once the pump is correctly positioned, connect it to a mains power supply via an RCD and switch on the supply.
  2. Move the **ON/OFF** switch (6) to the 'I/ON' position.
- Once switched on the pump will operate automatically – switching on when the pressure is lower than 1.5bar and switching off when higher than 3bar.
  - **Thermal protection switch** - this will automatically stop the pump if the motor temperature exceeds 125°C and will automatically restart once the temperature drops below 80°C.

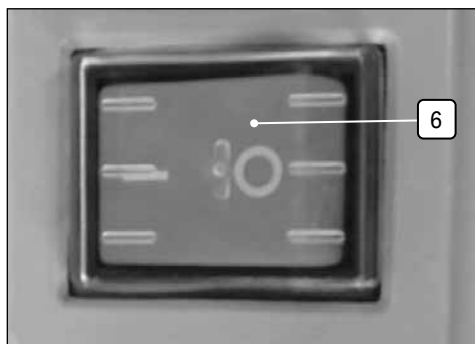


Fig. 10

## 7.5 Pumping Distance and Volume

- The maximum horizontal pumping distance and hourly volume of water transferred are directly affected by the working head height.
- The term 'head' refers to the difference in vertical height between the water surface and the highest point to which the water is pumped, regardless of the length of the hose. As the head increases the pumping distance and volume decreases more rapidly.

## 8. Maintenance and Troubleshooting

**Important: ALWAYS** ensure the pump is switched off, unplugged from the power supply and has completely stopped before making any adjustments, cleaning or carrying out any maintenance.

- Technical maintenance and servicing must only be carried out by Draper Tools or an authorised service agent.

### 8.1 General Maintenance and Storage (Fig.11)

- Clean the outside of the pump with a damp cloth only. Ensure the pump is completely dry before storage.
- Check regularly for loose bolts and damage to the hoses and power cord.
- **DO NOT** use solvents or aggressive chemicals to clean this product as they may damage the plastic or insulated parts.
- Store the product out of direct sunlight and out of the reach of children.

- Protect the product from frost.
- If storing the pump for prolonged periods, disconnect the hoses and drain the water from the pump by opening the pressure hose (Fig.11).

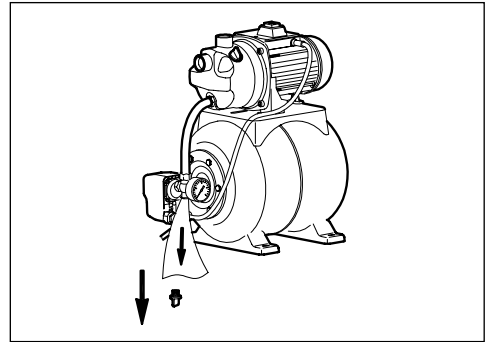


Fig. 11

# 8. Maintenance and Troubleshooting

## 8.2 Troubleshooting

Problem	Possible cause	Remedy
Pump does not switch on or stops during use.	The power cord is not connected to an active power supply.	Check the connection to the power supply and replace the fuse in the plug if necessary.
	The power cord or plug is damaged or faulty.	If the power supply cord is damaged, it must be replaced by Draper Tools, an authorised service agent or similarly qualified personnel in order to avoid a hazard.
	Tank not pressurised.	Pressurise the tank – <b>see section 6.3</b>
	Thermal protection switch operated.	Pump will automatically stop if the motor temperature exceeds 125°C and will automatically restart once the temperature drops below 80°C.
	Pump faulty.	Contact Draper Tools for advice.
No water delivered.	Not connected to water supply.	Connect to water supply.
	Air in pump/pump not primed.	Prime the pump – <b>see section 7.1</b>
	Suction hose/pipe clogged.	Remove the obstruction.
		Use for clear water only.
		Fit filter to water inlet.
	Head or suction height exceeded the pump specification.	Reduce head height as specified (Max 38mm).
Reduce suction height as specified (8M)		
Water level under the minimum suction level.	Increase to specified water level (minimum 10cm).	
Pump components damaged.	Contact Draper Tools for advice.	
Flow rate is too low.	Non-return valve in wrong orientation.	Check and fit in correct orientation.
	Obstruction in the inlet/suction hose.	Switch off and check and remove any obstructions.
		Use with clear water only.
	Hose system is damaged or connection not tight.	Check and replace damaged parts.
	The head height exceeds the capabilities of the pump.	Reduce the vertical distance that the water must be pumped.
Air in pump/pump not primed.	Prime the pump – <b>see section 7.1</b>	

## 9. Spares, Returns and Disposal

For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

**Important: ALWAYS** drain and thoroughly clean the product of any water and debris before returning it to Draper Tools or its authorised agent.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

- **DO NOT** dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.



## 10. Warranty

12 months from date of purchase – Visit [drapertools.com/warranty](http://drapertools.com/warranty) for more information. However, if the tools are hired out, the warranty period is 90 days from the date of purchase.

## 11. Explanation of Symbols



Read the instruction manual



**Warning!**



Earthed



WEEE –

Waste Electrical & Electronic Equipment

Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish



European conformity



UK Conformity Assessed





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