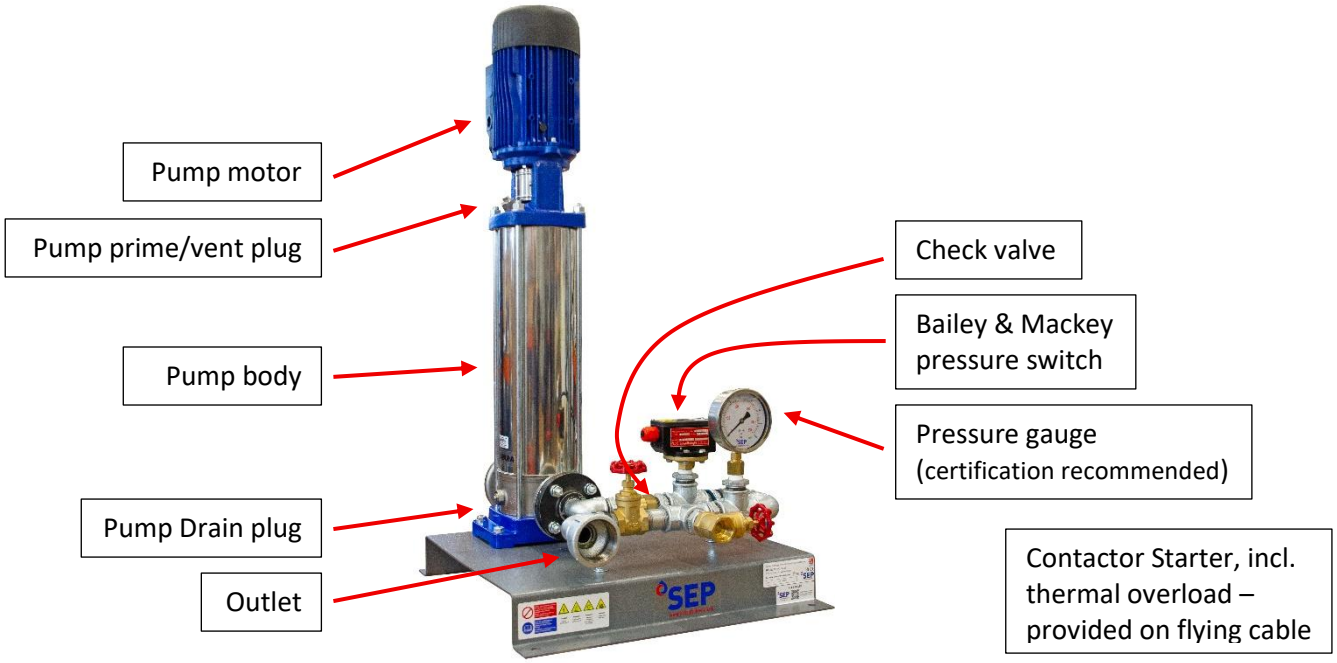
www.firesprinkler.co.uk

INSTALLATION & OPERATION INSTRUCTIONS

DRY RISER TEST PUMP



Please note: Lowara 1SV19 model shown; exact design/layout of outlet manifold may differ from that shown above

GENERAL DESCRIPTION

230VAC 1.1kw/13 bar (1.5kw/18 bar option available) vertical multistage water pump designed specifically for the filling and pressure testing of dry risers. A Bailey & Mackey 1381 pressure switch is provided on the manifold to ensure that the pump automatically maintains the required pressure, and the pressure gauge can be calibrated if required.

The manifold outlet is 2" BSP screwed female and a 2.5" instantaneous hose outlet is available as an option. An inlet flange adaptor to 1" BSP is provided. IBC water containers, inlet flexi-hose connectors, inlet strainer (strongly recommended), outlet fire hoses, pressure switch adjuster etc are all available as options. Power supply is not provided and is not something we offer due to the vast range of options, including on-vehicle invertors, leisure batteries, power-packs, generators, and more.

*PLEASE READ **ALL** OF THESE INSTRUCTIONS BEFORE USE.*

*** SAFETY ***

THIS PUMP IS DESIGNED AND BUILT ONLY FOR TESTING DRY RISER SYSTEMS.

ELECTRICITY CAN BE DANGEROUS, AND POTENTIALLY LETHAL.

DO NOT INSTALL OR USE this product until you have read these instructions, and unless you are satisfied that you have the knowledge and experience to do so. If you are NOT SURE, ASK.

Take special care when moving/lifting because this product is very heavy (two-person lift).

These instructions do not cover every aspect of the pumps we use, therefore please also review the instructions for the pump which are supplied separately.

It is required that users employ safe working practices when using this equipment and your attention is drawn to the Health and Safety at Work Act 1974, the latest electrical and pressure equipment regulations and any other current, pending or future safety requirements.

This document must be kept with the product for reference purposes. An electronic version is also available to download from our website if further copies are required.

The following safety signs and symbols may be used:


Read instructions before use


Automatic control – may start without warning


Dangerous voltage may be present


Danger – contents may be under pressure


Surfaces may be hot


General safety information

INSTALLATION - MECHANICAL

Before you start, CHECK for any damage in transit and advise us immediately if this is the case. CHECK the power supply required, and your power source is safe and appropriately rated for this purpose.

1. Remove all packing materials. Take care to install and operate the product in a clean, dry and cool environment (ambient temperature 5-40^{o}C).
2. Use the four mounting holes in the pump skid to securely bolt down the unit in your vehicle. Depending on your set-up, you may also wish to brace the top of the pump body to the side of the vehicle.
3. Connect the pump inlet to your water supply, via the flange and gasket provided, after removing the transit plug from the pump; if required, we can supply a flexible hose with 1” male and female swivel connections. You must take measures to ensure that the water supply is clean – debris such as sand, grit and mud will cause non-warranty damage to the pump and components – and therefore we strongly recommend the use of a Y-strainer which we can also supply.
4. You MUST take measures to protect the pump from frost and ice, as this is a non-warranty failure.

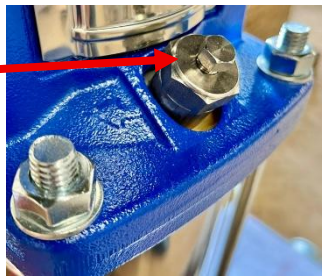
INSTALLATION - ELECTRICAL

5. This product **must** be wired into an appropriate safe power supply, suitable for electric motors, and protected by an appropriate circuit-breaking device. For electrical data, please refer to the product labels.
6. Connect to the supply in accordance with the enclosed wiring diagram, which is provided for information only – the power cable from the top of the contactor box is prepared for direct connection to your power supply. This power cable, or an equivalent of at least the same rating, must be used.
7. The unit MUST be earthed – failure to do so may lead to serious injury or death.

Dangerous, potentially lethal voltages are present within this equipment; therefore, care should be taken to ensure that all electrical connections remain firm and that cables do not wear, become subject to physical damage nor allowed to be in contact with excessive water, heat or vibration etc.

BEFORE YOU START THE PUMP

8. The pump MUST be primed and vented – refer to the separately-supplied pump instruction manual for additional details, but in summary:
    - The vent plug is situated at the top of the pump, below the motor, as labelled above and shown on the right;
    - Close outlet valve, remove the plug, and fill up pump to the top with water using a jug, hose etc;
    - Return and tighten plug.



TO START THE PUMP

9. Check all inlet and outlet connections, close outlet valve initially.
10. Turn on at isolator/switch, and the pump should start automatically, with the pressure switch creating a circuit which initiates the contactor starter. Once up to pressure, it will stop automatically;
11. Open outlet valve slowly and, as water moves and pressure drops, pump will start again to fill the riser.

TO STOP THE PUMP

The pump should stop automatically once the set pressure is achieved.

If not, or following the above, push the STOP button on the contactor enclosure (turn clockwise to unlock).

In an EMERGENCY, use the STOP button on the contactor enclosure, or the electrical isolation switch that the pump is wired into.

PRESSURE SWITCH ADJUSTMENT

The pressure switch is factory set to 12 bar (1.1kw models) or 15 bar (1.5kw models); however, on or prior to first use, you should validate that this setting is appropriate to your needs. You may adjust the pressure switch to suit your requirements using a 5.5mm nut spinner (available separately), referring to the below.

WARNING: DO NOT attempt to increase the pressure beyond the specified maximum, or decrease the pressure below the specified minimum.

Adjustment: turn nut – no more than 1/8th turn at a time – clockwise to increase the pressure; anti-clockwise to decrease the pressure.

WARRANTY AND SPARE PARTS

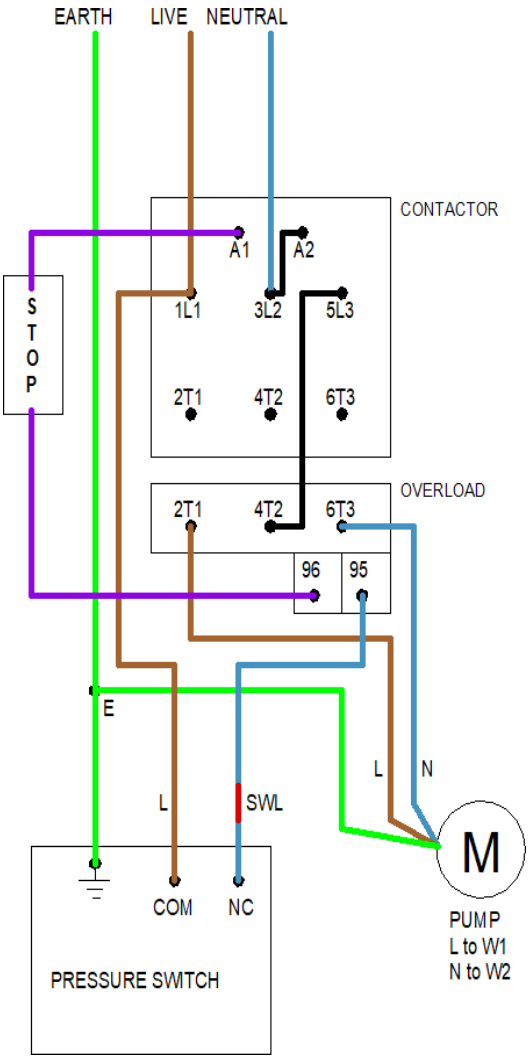
The standard warranty is 12 months, but this can be extended to 24 months by registering on our website (https://firesprinkler.co.uk/warranty-registration-form/).

Only use genuine spare parts or service kits purchased from SEP. The use of non-genuine spare parts may affect the reliability and service life of the product and will invalidate the warranty.

In the event of any difficulty understanding these instructions, or operating the unit, contact your supplier or the manufacturer immediately.

Alternatively, please contact Sale Engineering Products: +44 161 428 1180 or sales@SEPfiresprinkler.co.uk

WIRING DIAGRAM



Sale Engineering Products Ltd
45 Lambeth Road
Reddish, Stockport
Greater Manchester, UK
SK5 6TW

T: +44 (0) 161 428 1180
E: sales@SEPfiresprinkler.co.uk
W: www.firesprinkler.co.uk