

# Dry Riser Test Pump

As part of our range of booster pump and test equipment, SEP offers this Dry Riser Test Pump unit, from 2023 now available in **two sizes (13.5 bar** which will cover most UK risers, and **18 bar** which is required for Ireland, and some high systems).

Using world-renowned Grundfos vertical multistage pumps with a comprehensive outlet manifold, pressure switch controls, and mounted on a steel skid, our unit solves many problems encountered during the challenge of annual dry riser pressure testing.

We are often asked "**is it not much slower** to fill when compared to the OLD METHOD of using a Godiva pump?". Well, we're a manufacturer and we don't actually use them, but our customers tell us that comparing the whole job of unloading and preparing the Godiva, setting up the job, starting and running the tests, packing up again...our solution is actually quicker, cleaner and quieter – the actual fill-time of the riser is only part of the whole job. Several of our customers now have multiple SEP DRTPs, and it seems (like an iPhone) once you've experienced the 'new way' then **there's no looking back!**

As always, when buying from us, you will expect high levels of service and top quality, as well as some or all of the **following numerous advantages** compared to standard dry riser testing methods:

- 230v pump can be easily powered from maintenance vehicles using an in-vehicle inverter, generator or even local accessible power supply (see over for more details).
- Pressure switch ensures the pump runs only to your pre-determined set pressure, cutting in again only if required.
- No need to carry, manoeuvre, start (or try to!) and continually rev up heavy petrol-driven pumps.
- No need to carry a separate and risky flammable fuel supply.
- Virtually no noise compared to running and revving petrol-driven pumps, making it perfect for buildings such as residential, office, school, care home etc.
- Pump set can be fed by vehicle-mounted water tank or external hydrant supply.
- No need to remove pump set from vehicle to carry out testing routines.
- Test sequence can become a one-person task instead of multi-person.
- Increased reliability and easy maintenance using off-the-shelf parts familiar to most fire sprinkler engineers.
- 1" and 2" outlets allowing feed into 1" drain or 2" Instantaneous fitting, whichever is preferred or available.
- Additional and/or different valves/outlets can be fitted during or after manufacturer to suit customers' preferences.



## Standard specification includes:

- 230v Grundfos vertical multistage pump (CRi1-23 with Hmax 135m/13.5 bar and Qmax 40lpm, or CRi1-30 with Hmax 180m/18 bar and Qmax 40lpm);
- Outlet manifold including 1" and 2" outlets, check valve, pressure switch (Bailey & Mackey 1381, 14 bar or 28 bar) and pressure gauge;
- Electrical control module, with 2m flex for mounting where best for you;
- Steel-skid mounted for full stability and sleek looks.

Please see reverse for further technical data.

**As standard, we're NOT standard, so we offer the following options:**

- Calibration certificate for pressure gauge.
- Instantaneous male or female fittings.
- Lay-flat hoses complete with instantaneous connections.
- Variable differential (1381V) or higher pressure switch.
- Any 230v pump up to 2.2kW subject to power supply availability.
- Manifold design and build to suit your individual requirements, including different outlets and connections.
- IBC water tank with adaptors/fittings/hose.

**Weights and Dimensions**

Height approx.	CRi1-23 model 1,020mm; CRi1-30 model 1,146mm
Footprint approx.	550x520mm
Weight approx.	CRi1-23 model 58kg; CRi1-30 model 62kg

**Power Supply Options**

We are regularly asked by customers and potential customers about the best option/s for supplying power for the dry riser test pump. The answer is not simple, and we are not specialists in this area; however, we are able to offer advice based on research and discussions with both power supply specialists, and customers who have been using the unit for some time.

Based on the above, we suggest the following possible solutions for consideration.

- 230v extension leads: yes, some users have this as a solution – certainly cheap, also quick and easy where possible, but this may not always be the case and leaves you reliant on access to power points.
- Petrol generator. Although this solution negates one of the advantages, many engineers carry this kit anyway. Cost is around £300-500.
- Power inverter. A pure sine wave DC12V to AC230V inverter connected directly to the vehicle battery. We know several customers are using this solution without any problems, although according to the inverter specialists this may cause early wear to the vehicle battery. All we would suggest is that you have the vehicle battery checked regularly. Cost is around £400-500.
- Full inverter kit. This is the 'gold-standard' solution (but we are not aware of any customer that has needed to use this) including an inverter with 230v charger, a pair of heavy-duty leisure batteries and a DC-DC charger. The cost is, in our opinion, quite high at around £2,000.

For detailed specification, the electrical specifications of the standard Grundfos CRi1-23 pump we use are:

• Voltage	220-240v @ 50Hz
• Power rating	CRi1-23 1.1kW; CRi1-30 1.5kW
• Rated current	CRi1-23 7.40/6.70A; CRi1-30 9.1/8.75A
• Starting current	CRi1-23 390%; CRi1-30 480-540%

We repeat that we are not electrical specialists and are not able to advise on or quote the best power supply for your needs; there is not one solution which will be suitable for everybody so please take independent specialist advice.

Dry Riser Test Pumps installed in customers' vans

