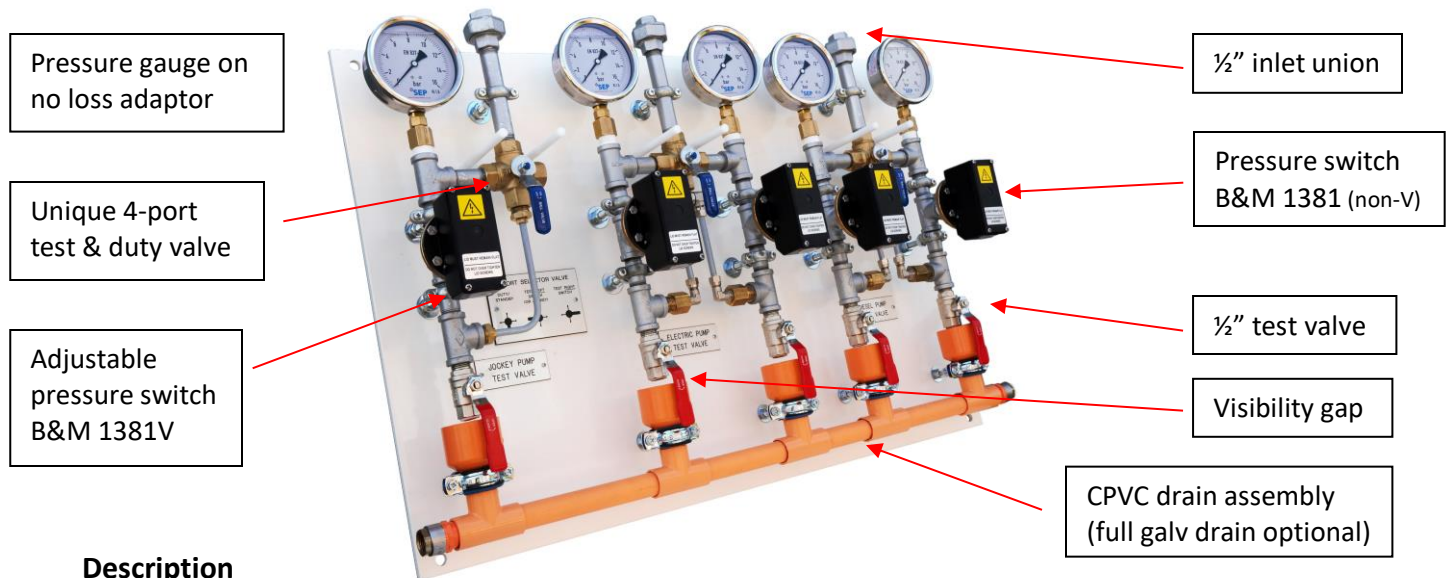


Pump Test Initiation Assemblies

EN12845 models (Sprinkler systems)

Operation & Maintenance

QAP02/2F updated: Jun 2021



Description

This modular assembly is designed to meet the requirements of LPC and BSEN12845, requiring double pressure switches & gauges, check valve in parallel with isolation valve, and visibility of the emission of test water, hence the open drain assembly (galvanised available as an option).

The unit is directly mounted onto a zero-corrosion polypropylene board for ease and speed of on-site installation. Each jockey and pump arrangement has a separate test assembly, complete with pressure switches, pressure gauges, test valves with control orifice. All pipework is ½" HQ galvanised, with protective grey hammered finish.

Any possible configuration is available and labelling is available to suit multiple pump sets.

* SAFETY *

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 electrical engineers regulation and any other current, pending or future safety requirements.

DO NOT operate this equipment until you have read and fully understand the contents of this operation & maintenance instruction sheet, particularly with regard to health and safety.

Installation

The unit should be wall mounted by securely bolting to the wall using M10 bolts and fixings appropriate to the surface being mounted upon; take care because some configurations (especially multiple test 'legs' and high pressure units) are especially heavy.

Pump lines can now be connected using the 15mm/1/2" unions provided at the top of the unit.

Electrical Connections

Locate electrical supply compatible to the pressure switches and connect in accordance with the pressure switch instructions (enclosed).

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, nor allowed to be in contact with excessive heat.

Normal 'standby' operation

1. The main valve/s must be open to sprinkler system pressure (handle/s pointing **downwards**) and the gate valve/s must be fully closed (after bleeding any air in the unit during installation and commissioning); ensure that the pressure gauge reading is above the pump start pressure setting.
2. The main valve position opens the ports between the inlet and the main pressure switch lines, and closes the bypass line.
3. The jockey pump pressure switch will fluctuate between high and low settings.

Test Operation

1. Ensure that local building requirements are met in relation to fire sprinkler system testing.
2. Turn the handle of the main valve towards the pressure switch that you wish to test; then slowly open the test valve under the pressure switch to reduce the pressure, observing (a) water being expelled and (b) pressure switch circuit activating.
3. Fully close the test valve, then return the main valve handle to its 'down' position to restore pressure to the line and re-set the pressure switch.

Maintenance

1. The assembly can be isolated from the system by unscrewing one of the hex 'stops' at the top of the main valve label, then turning the valve so that the handle is in an upright position. The 'stops' are there to prevent accidental board isolation – *ensure you replace them afterwards*.
2. Open the test valve/s to release the pressure from the pump test pipework.
3. Individual components may now be removed for checking or replacement.

Important notes

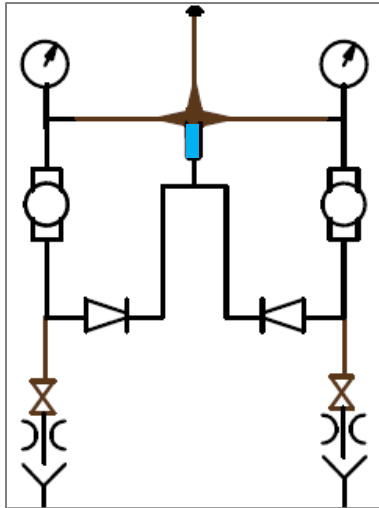
ENSURE THAT THE MAIN VALVE HANDLES ARE POINTING DOWNWARDS WHENEVER YOU LEAVE THE BOARD.

Where the ball valve is inadvertently left in a 'test' position, the pressure switch will continue to activate if there is a pressure drop in the sprinkler system, due to the inclusion of the non-return bypass lines.

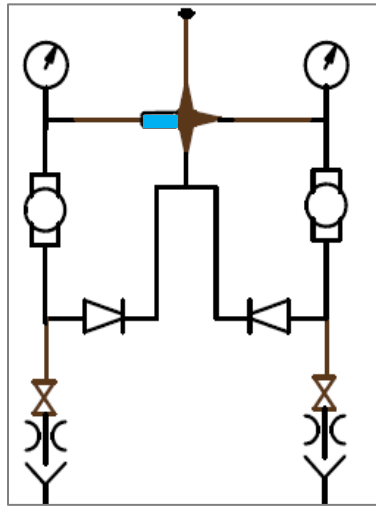
In the case of the jockey pump test, hunting by the pump is prevented by the differential orifice size between the test outlet and the open bypass line.

Illustrations

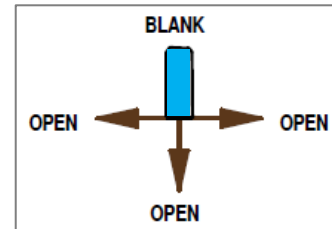
Normal operation
(handle down):



Test left-hand switch
(handle to left):



Isolate board
(remove stop, handle up):



Spare Parts

Only use genuine spare parts purchased from Sale Engineering Products or your maintainer, since the use of non-genuine spare parts will invalidate the warranty and may affect reliability and service life. Genuine spare parts, service items and accessories are readily available.

N.B. In the event of any difficulty understanding these instructions, or operating the unit, contact your installer or maintainer immediately.

Alternatively please call Sale Engineering Products as below

Sale Engineering Products Ltd
Unit 2 Brookfield Industrial Estate
Brookfield Road
Cheadle, Cheshire, UK
SK8 2PN

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



British Automatic Fire Sprinkler Association

bafsa

