



Data Sheet 6.31 Issue A

Pump Initiation Board

Description

Pump initiation boards are designed for the testing of sprinkler system pump initiation pressure switches. Each pressure switch can be individually isolated to verify correct operation.

Rapidrop pump initiation boards are ready for wall mounting in the pump house. Each initiation has a separate test arrangement and connection with a common drain. Units are pressure tested to 1.25x working pressure prior to dispatch.

Features

- Compliant with BS EN12845 & LPC sprinkler installation rules
- 100mm glycerin gauges c/w no loss connectors (14, 25bar)
- Reduced connections/minimal joints
- Model 1381V pressure switch for pump 1
- Model 1381 pressure switches for all other pumps
- Lockable ball valves
- Available in 14 Bar, 25 Bar and 40 Bar max working pressure
- Standard configurations for 2, 3 & 4 units.
- Bespoke solutions available on request.
- Operation instruction label
- Cardboard packaging for BS EN12845 2 and 3 pump boards (14, 25bar)



Material Specification

Pressure Rating	14 bar	25 bar	40 bar
Pipes & Fittings	Galvanised Carbon Steel BS143, BS1387 & Nickel Plated	Galvanised Carbon Steel BS143, BS1387 & Nickel Plated	Stainless Steel & Nickel Plated
Ball Valves	PN40	PN40	PN40
Pressure Switch	0.7-14 bar	2-28 bar	2-42 bar
Test Pressure	17.5 bar	31.25 bar	50 bar
Pressure Gauge	0-16 bar	0-25 bar	0-40 bar

Standard PIB Specifications BS EN12845

Configuration	Width (mm)	Height (mm)	Depth (mm)	Ordering Code		
				14Bar	25Bar	40 Bar
2 Pump	770 (*1000)	550 (*600)	170	RDPIB2P14	RDPIB2P25	RDPIB2P40
3 Pump	1195 (*1560)	550 (*600)	170	RDPIB3P14	RDPIB3P25	RDPIB3P40
4 Pump	1750 (*2200)	550 (*600)	170	RDPIB4P14	RDPIB4P25	RDPIB4P40

* 40Bar specification

Wet Riser PIB Specifications

Configuration	Width (mm)	Height (mm)	Depth (mm)	14Bar	25Bar	40 Bar
1 Pump	350	550	170	RDPIB1P14SIN	RDPIB1P25SIN	RDPIB1P40SIN
2 Pump (Single Leg)	600 (*700)	550 (*600)	170	RDPIB2P14SIN	RDPIB2P25SIN	RDPIB2P40SIN
3 Pump (Single Leg)	770 (*950)	550 (*600)	170	RDPIB3P14SIN	RDPIB3P25SIN	RDPIB3P40SIN

* 40Bar specification



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Installation

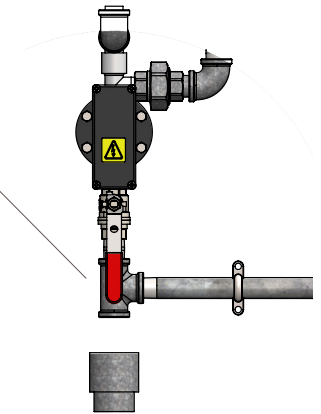
Assembly to be located where it will not be subject to freezing or extreme temperatures. All electrical connections to be made by qualified installers. Suitably fix the polycarbonate board in position by drilling mounting holes. Pipe outlets to the sprinkler system, refer to across for drain connection.

Pressure switches can be set in situ.

Refer to datasheet 2.02 for correct setting of switches.

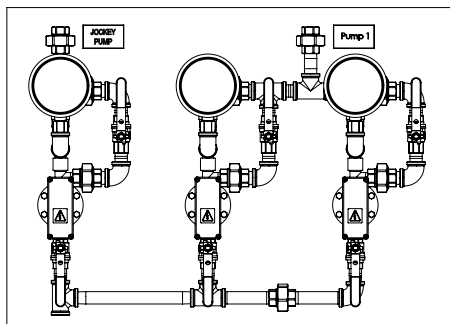
Drain Connection

Rapidrop recommend installing an open drain to meet the requirements of LPC TB210

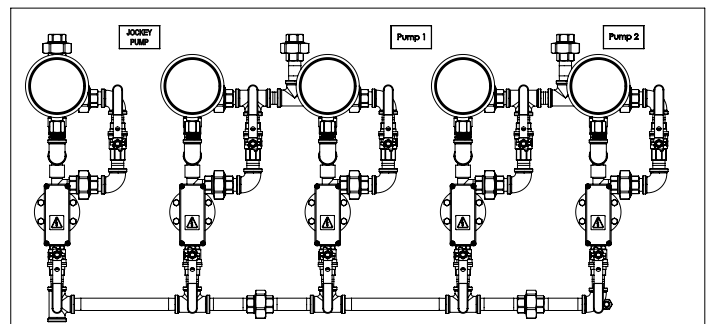


Standard configurations - BS EN12845

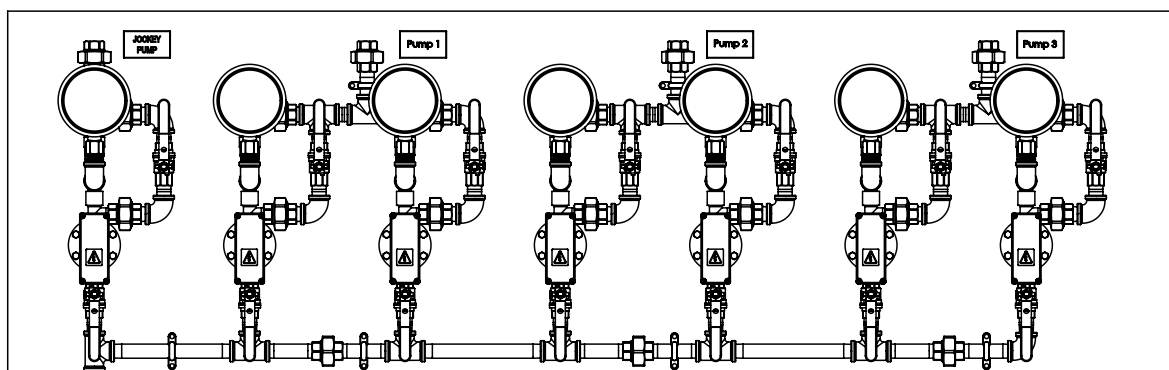
2 Pump Initiation Board



3 Pump Initiation Board



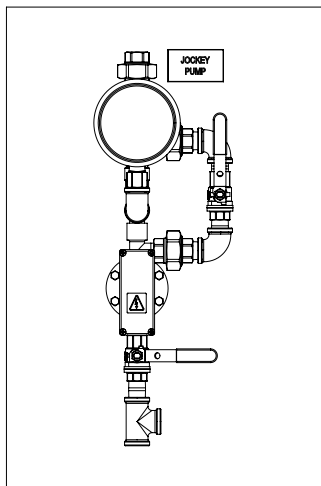
4 Pump Initiation Board



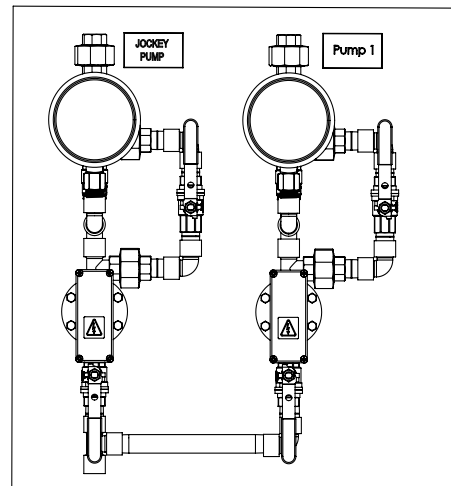
Pump Initiation Board

Wet Riser configurations

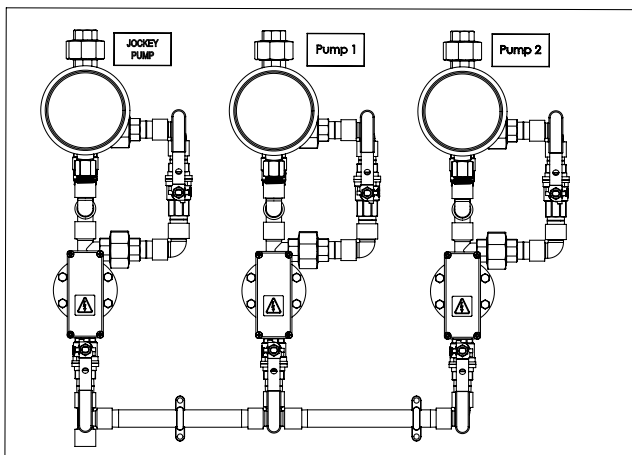
1 Pump Initiation Board



2 Pump Initiation Board (Single Legs)



3 Pump Initiation Board (Single Legs)



Maintenance

Rapidrop pump initiation requires no regular maintenance, however it is advisable to inspect and verify proper operation of the unit in accordance with the authority having jurisdiction.

The inspection should include, but not limited too:

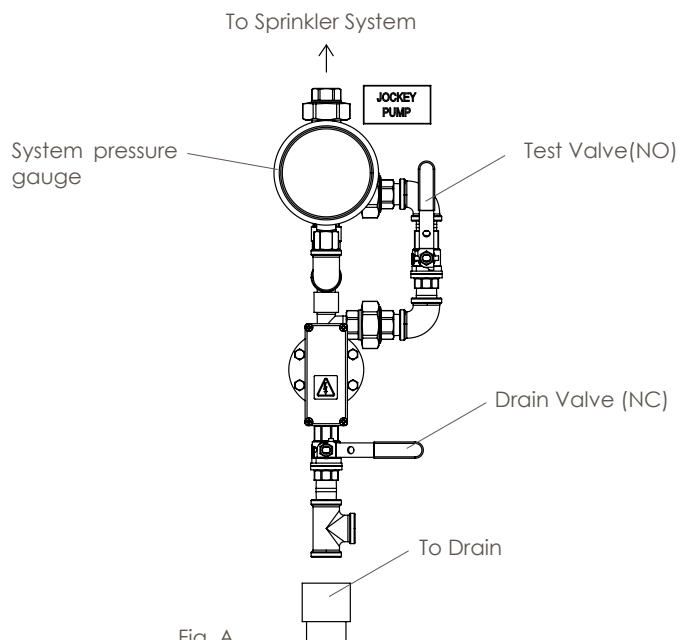
- Verify operation of the pressure gauges
- Verify operation of pressure switches

- Bespoke solutions available upon request.

Important Installation Information

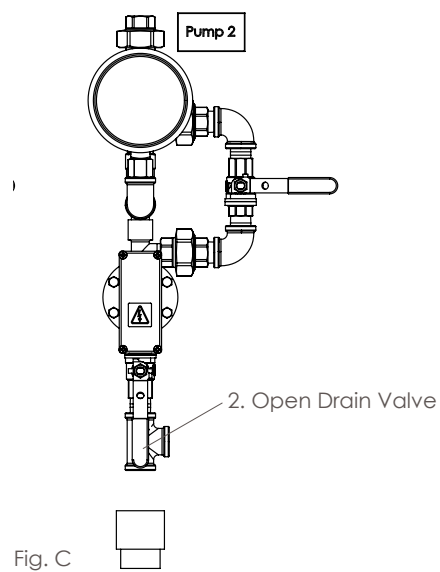
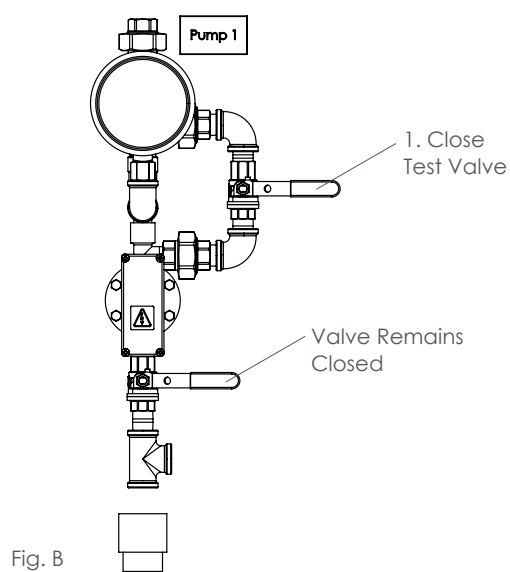
- Rapidrop pump initiation boards must only be installed by a competent person in accordance with requirements of the local authority having jurisdiction. Deviations from these standards will invalidate warranty.
- It is the responsibility of the installing contractor to include a copy of this document in the sprinkler system installation, operating and maintenance manual.
- Alterations to Rapidrop products will void any warranty.
- Pump initiation boards should be inspected and maintained during routine sprinkler system inspections by a competent person in accordance with national codes/requirements.
- Failure to follow these instructions could cause improper operation, resulting in personal injury and/or property damage.
- For further details and technical support please contact your Rapidrop sales representative.

Operation



Test Procedure

1. Close the Test Valve to isolate the system pressure. (Fig.B)
2. Slowly open the Drain Valve to drain the switch line pressure. (Fig.C)
3. Record and verify the pressure at which the switch operates the pump.
4. Reset system as per Fig A.



Note: Operational label supplied on each board.