



Technical Guide 6.02 Issue B

Pump Initiation Board Operation

Description

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.

Material Specification

Pressure Rating	14 bar	25 bar	40 bar
Pipes & Fittings	Galvanised Carbon Steel BS143, BS1387	Galvanised Carbon Steel BS143, BS1387	Stainless Steel
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

Jockey Pump leg

Jockey Pump is classed as a pressure maintenance pump - it is installed to avoid starting one of the main pumps unnecessarily therefor only requires a single switch

Duty Pump leg

Dual pressure switch design with option to test each switch individually as required by BS EN 12845

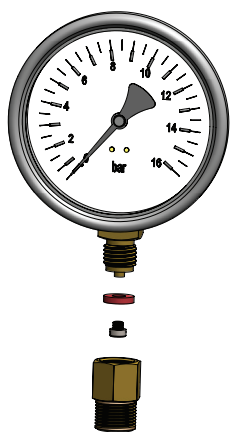
1x Variable Pressure Switch (PS1381V)

2x Fixed Pressure Switch (PS1381)

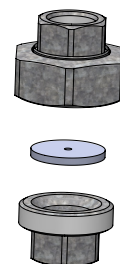
Set point and reset point

Set point only

No loss connector supplied with each gauge for easier assembly / removal



Internal Poly disc restrictor reduces the flow when pressuring the system to prevent damage of the switch



Mounted on polycarbonate board for easier installation

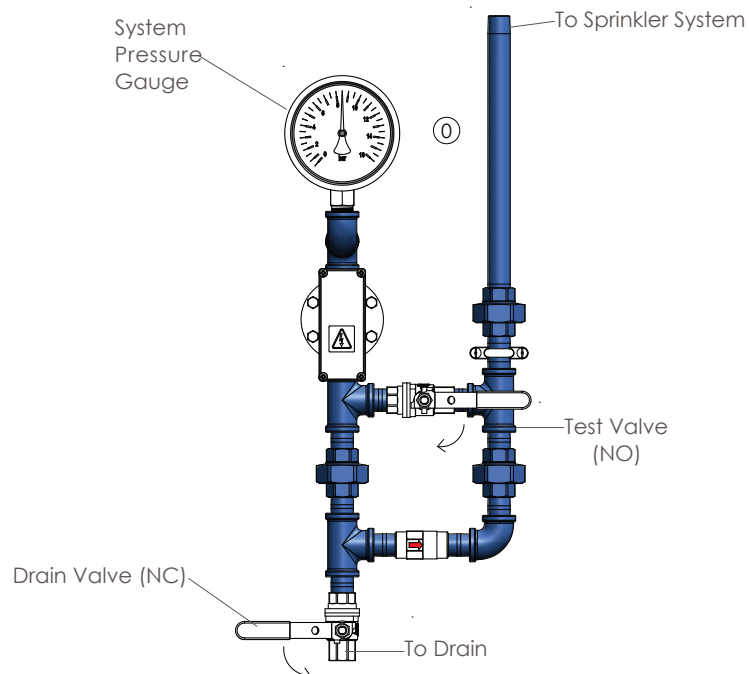
Single Drain outlet

PN40 brass spring check valve supplied with all boards as standard

Lockable ball valve to prevent valves being tampered with

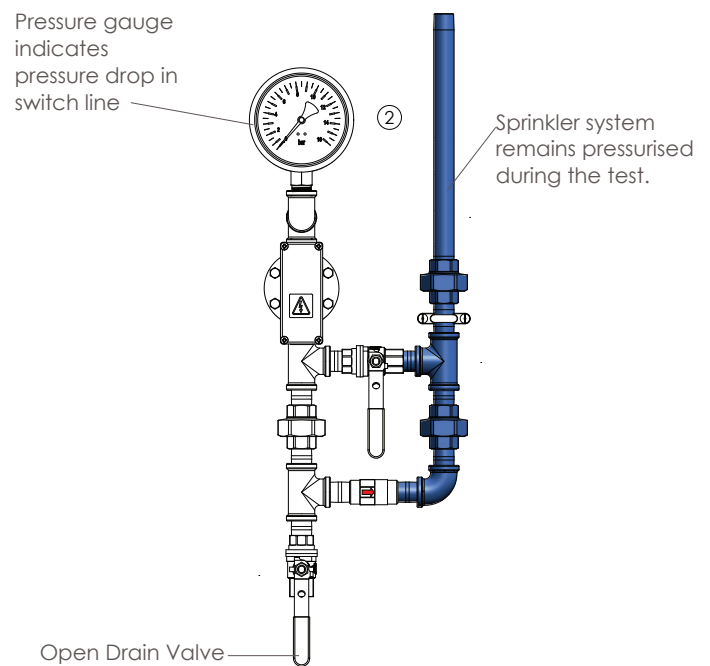
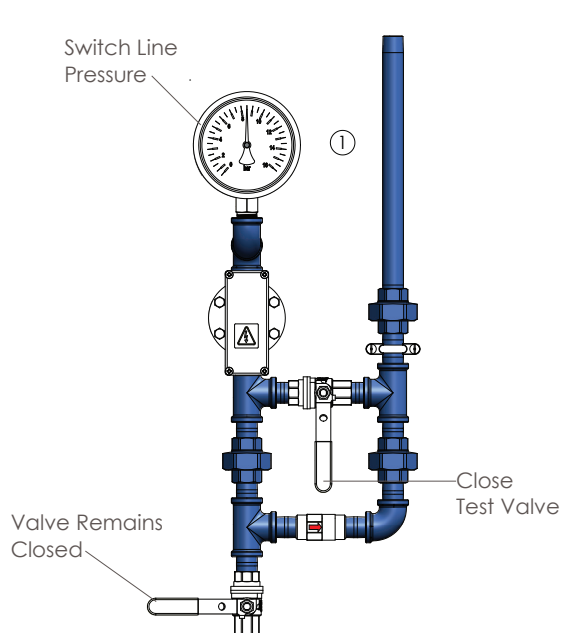
Pump Initiation Board Operation

Operation



Test Procedure

1. Close the test valve to prevent draining the sprinkler system
2. Open the drain valve to release the pressure in the switch line. This causes the switch to activate the pump.
3. After the test has finished reverse the process.



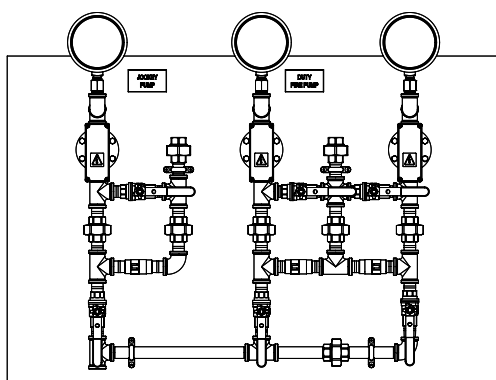
Pump Initiation Board Operation

Standard layouts and ordering codes

To comply with BS EN 12845.

2 pump initiation board

- 1 jockey pump (single variable switch)
- 1 main pump (fixed double switches)

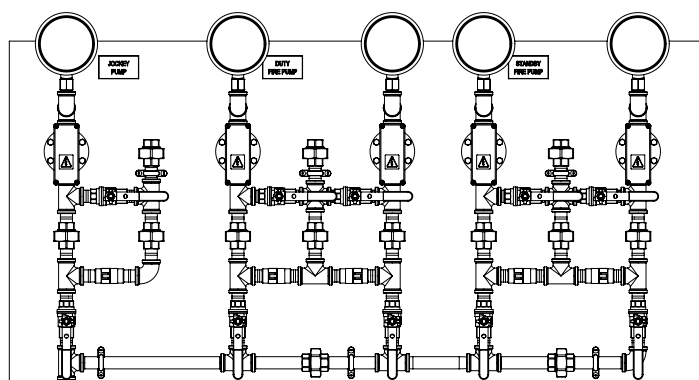


Ordering Codes:

- RDPIB2PBST - 14 bar maximum pressure
- RDPIB2PBS25BAR - 25 bar maximum pressure
- 40 bar maximum pressure

3 pump initiation board

- 1 jockey pump (single variable switch)
- 2 main pumps (fixed double switches)

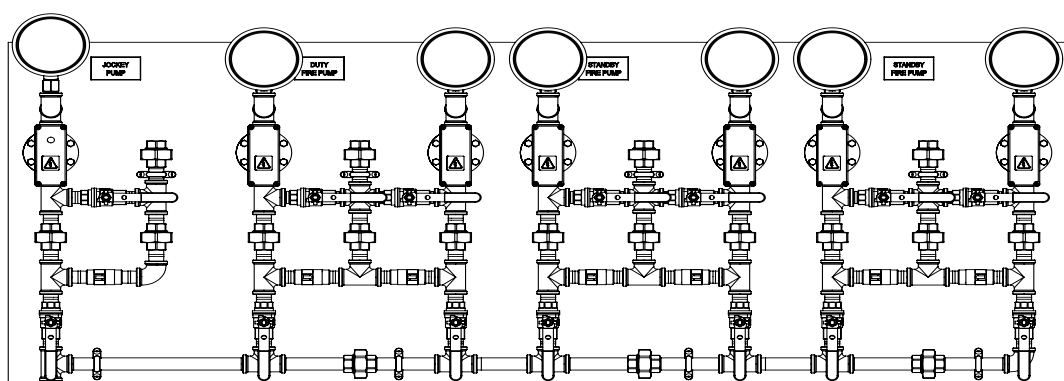


Ordering Codes:

- RDPIB3PBST - 14 bar maximum pressure
- RDPIB3PBS25BAR - 25 bar maximum pressure
- RDPIB3P40BAR - 40 bar maximum pressure

4 pump initiation board

- 1 jockey pump (single variable switch)
- 3 main pumps (fixed double switches)



Ordering Codes:

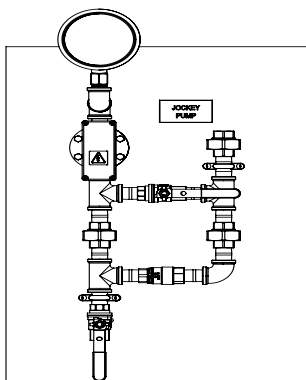
- RDPIB4PBST - 14 bar maximum pressure
- RDPIB4PBS25BAR - 25 bar maximum pressure
- 40 bar maximum pressure

Pump Initiation Board Operation

Alternative arrangement examples made to suit customer requirements.

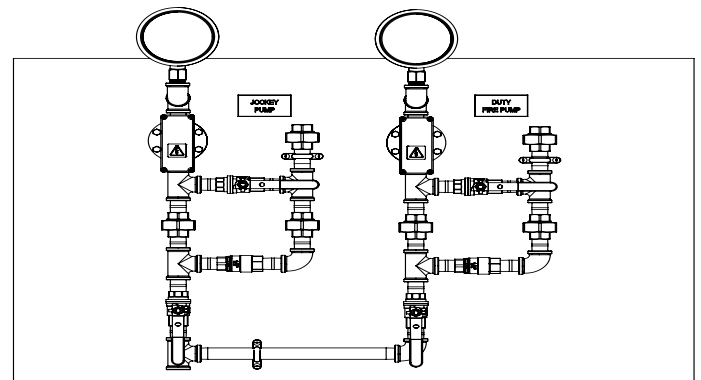
1 pump initiation board

1 jockey pump (single variable switch)



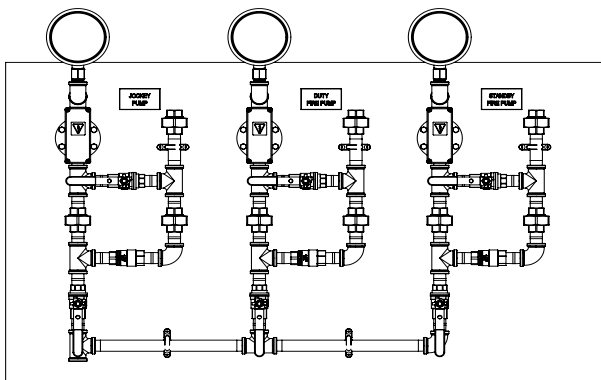
2 pump initiation board

1 jockey pump (single variable switch)
1 main pump (single fixed switch)



3 pump initiation board

1 jockey pump (single variable switch)
2 main pump (single fixed switches)



2 pump initiation board

2 main pumps (fixed double switches)

