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## FIRE PRIORITY DEMAND VALVE (FPV)

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**1" TO 6" FOR DOMESTIC FIRE SPRINKLER SYSTEMS**



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### Overview

The Aquatech Pressmain Fire Priority Valve FPV system consists of a pipeline mounted motorised valve and a wall mounting control panel. The FPV is ideally suited for combined domestic sprinkler systems designed to BS9251:2014, that utilise the domestic water pressure booster set and break tank for both domestic water supply and fire suppression.

### Operation

If the sprinkler system is activated a control signal from the fire sprinkler flow switch is received by the FPV system, the controller then tells the motorised valve to close. This isolates the flow of water into the domestic cold water riser enabling the booster set to pump all the available water to the sprinklers riser. The FPV system holds the valve closed until manually reset (once the fire brigade has handed the building back to owner).

The valve will also stop the domestic flow when the break tank level gets too low. This allows the minimum tank volume, as recommended by BS9251:2014, to be retained for sprinkler operation.

DIMENSIONS		
Diameter		Face to face
DN	NPS	mm
25	1"	32
32	1 ¼"	32
40	1 ½"	32
50	2"	43
65	2 ½"	46
80	3"	46
100	4"	52
125	5"	56
150	6"	56



### Valve Specification

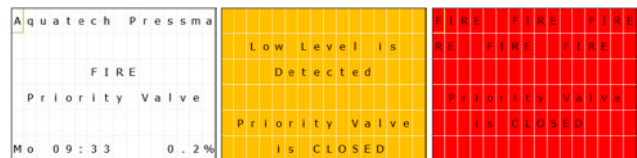
The valve is a WRAS approved wafer pattern butterfly type, suitable for fitting between BS4504 PN16 flanges and is available in all sizes 1" to 6". It features an Epoxy coated cast iron body with AISI 316 stainless steel disc, AISI 304 stainless steel stem, EPDM seat.

### Control Features

- 6 line LCD multi coloured display to display status and alarm messages
- Break tank low water level interface with auto shut down of the domestic cold water supply
- Battery backup operation on power failure with alarm output
- Manual operation and reset if required
- Automated anti-seize function for self-protection
- Aquatech Pressmain REPRESS system preventing hydraulic shock and pipework damage when the valve is reset
- 4 volt-free BMS alarm status outputs
- 9 valve sizes available
- Supplied fully pre-wired
- 2m cable length

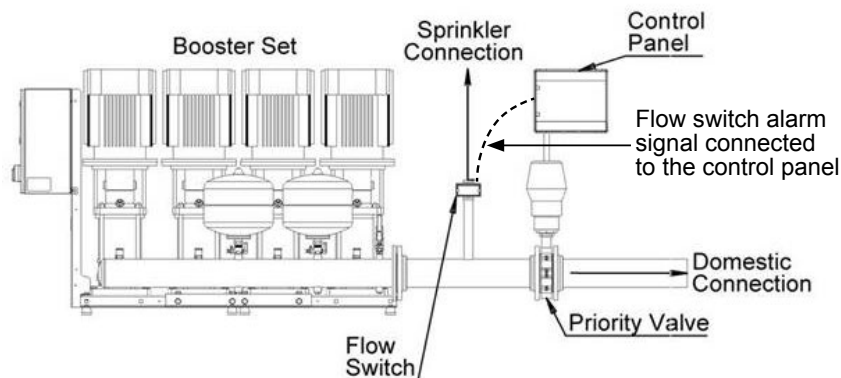
### Technical Data

Operating Temperature: 3°C to 40°C  
 Pressure range: 0-16bar  
 Supply Voltage: 230VAC 1Ph 10A



Display screen examples

## CONNECTION DIAGRAM



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