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| **FPC BS5163 GATE VALVES** |
| MICROSWITCH FITTING INSTRUCTIONS |
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| The following is a general description for fixing a Monitored switch to FPC Cast Iron Gate Valves |
| Instructions are in Step by Step Order of Operation to give a **DEFAULT OPEN** / Switch **CLOSED** position using a Burgess Microswitch (supplied). |
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| 1 | Using the valve Handwheel fully **OPEN** the valve |
| 2 | Remove Handwheel (loosen and remove handwheel retaining bolt) |
| 3 | Remove slotted OPEN -SHUT Indicator Plate and retain |
| 4 | Remove the Cast Alloy Indicator Arm from Valve Stem and Discard |
| 5 | Slide outer Threaded Collar fully over Valve Stem and secure with 2x M6 x 6mm Grub Screws |
| 6 | Screw annular threaded ring onto Threaded collar.  |
| 7 | Position the Indicator arm approx 1-2 turns from the bottom of the Thread |
| 8 | Fix OPEN/SHUT Indicator Plate and offset mounting bracket to valve with original screws |
|  | Ensure indicator Arm is inside the slot in the OPEN/SHUT indicator plate |
| 9 | Loosely Fix the Switch (Actuator Up) to mounting bracket with 2x M5 x 40mm Hex Screw, washer and nut |
| 10 | Slide switch into contact with the Indicator Arm so that the switch is depressed and Tripped.  |
|  | Do not over depress the switch button. Once positioned firmly tighten the switch screws |
| 11 | Replace the Handwheel and tighten the retaining bolt. |
| 12 | Test the installation. The switch should break within 2 turns of the handwheel from the fully open position.  |
|  | The switch will break with an audible click. If necessary loosen the switch and reposition. |
|  | Further adjustment can be made by loosening the 6mm Grub screws and rotating the collar |
| 13 | Once complete Fix the OPEN and SHUT stickers to the Indicator Plate. |
|  | *Note for a Monitored Valve default Closed leave the Cast Alloy indicator arm directly on the valve stem as supplied and fit the Microswitch using steps 8 to 14* |
|  | Tools required: 3mm Allen Key, 8mm & 10mm Open Ended Spanner, 20mm AdjustableSpanner, PZ2 Posidrive Screwdriver |
|  | pic3.jpg |
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