



Pressure Switch Replacement All Fixed Speed models – BTAB & BTAF



Warning - mains voltage – isolate before electrical maintenance

Replacement switches are available from our [online shop](#)

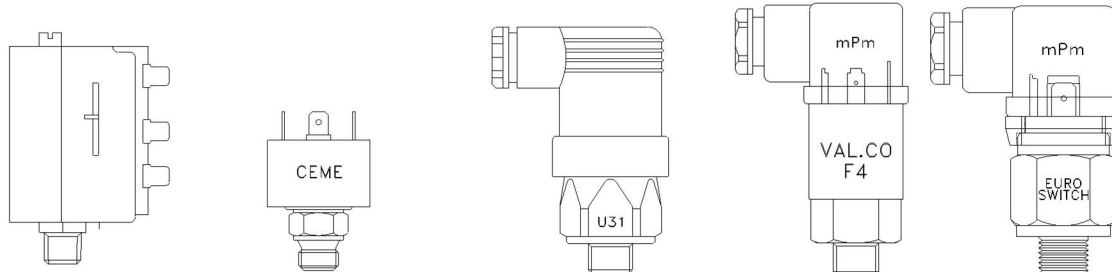
Diagnosis of pressure switch failure – All fixed speed models BTAB & BTAF

Refer to wiring diagrams online, or on inside cover of control box.

Typically the pump will not start despite zero outlet pressure (e.g. tap open). This suggests pressure switch failure or blocked port to pressure switch or wiring damage.

Types of pressure switch

Five types of switch have been supplied between years 2005 – 2010. The latest replacement “Euro switch” is compatible with all previous versions but will require the square electrical plug (supplied) to be fitted.



Make	Teddington	CEME	U31 SUCO	Valco F4	Euro switch
Years	Jan 02 –Apr 06	Apr 06 –July 06	July 06 – Oct 09	Oct 09 May 10	July 10 onwards
BTAB Serial No..	Up to 1197	1198 - 1269	1269 - 2102	2102 - 2237	2238 - onwards
BTAF Serial No.	Up to 1198	1199 - 1272	1272 - 2104	2104 - 2225	2225 - onwards

Blocked port

Some water supplies are contaminated with particles - *especially old upstream iron pipes* - and this can block the hole to the pressure switch. U31 SUCO switches with a grey finish are more prone than the U31 with gold finish. This debris or lime scale can also block the port to the pressure gauge. Checking and unblocking if necessary may rectify the problem but a replacement switch is recommended since debris may still remain inside the pressure switch.

Service Sheet – Break Tank Pressure Switch - Arrow Valves

Adjustment Euro switch

The pressure switch is adjustable. If the correct switch is ordered it should be factory set-and labelled. However it is possible to adjust the switch on-site to the “switch on” pressure. To adjust – remove brass cap from top of pressure switch, using a small screw driver turn the screw clockwise to increase pressure. Replace brass cap and reassemble with plastic housing.

The pressure switch should switch the pump on when the pressure **falls** to the pressure shown –

Model	Pressure Switch Code	Pressure - Switch on (falling)
BT500	ELF4/M3-1	1 bar
BT700	ELF4/M3-2	2 bar
BT900	ELF4/M3-3	3 bar
BT1200	ELF4/M3-4	4 bar
BTAB4-2	ELF4/M3-2	2 bar
BTAB4-3	ELF4/M3-3	3 bar
BTAB-4	ELF4/M3-4	4 bar

Replacing pressure switch procedure

1. Isolate water supply to set – e.g. servicing valve upstream of float or solenoid valve.
2. Open a tap connected to the outlet to relieve any pressure.
3. Isolate electrical power.
4. Pull off round plug (*square plug only requires central screw to be removed*).
5. Unscrew pressure switch and catch any remaining water.
6. Check the pressure switch port is clear with a small screwdriver and remove any debris or sealant.
7. Fit new pressure switch with sealing washer – no sealant is normally required.
8. Remove circular plug and fit new square plug. Brown to terminal 1 and Blue to terminal 2.
9. Refit plug, gasket and screw.
10. Open servicing valve and switch power on.
11. The pump should run when tap is opened on outlet system and stop when draw-off ceases.

Units with Teddington pressure switches inside electrical box.

1. Isolate water supply to set – e.g. servicing valve upstream of float or solenoid valve.
2. Open a tap connected to the outlet to relieve any pressure.
3. Isolate electrical power.
4. Remove old one from electrical box and catch any remaining water.
5. Check the pressure switch port is clear with a small screwdriver and remove any debris or sealant.
6. The replacement will need to put on the back of the pressure gauge where the blue pipe ends.
7. The cable will need running back through the route that the blue pipe originally took
8. Fit new pressure switch with sealing washer – no sealant is normally required.
9. Remove circular plug and fit new square plug. Brown to terminal 1 and Blue to terminal 2.
10. Refit plug, gasket and screw.
11. Open servicing valve and switch power on.
12. The pump should run when tap is opened on outlet system and stop when draw-off ceases.