



**Pressure Switch Replacement
 Models – BTMIDI - 1 / 2 / 3 / 2A / 3A**



Warning - mains voltage – isolate before electrical maintenance

Replacement switches are available from [online shop](#)
 Contact us for free replacement if the set is less than two years old

Diagnosis of pressure switch failure – models 1 / 2 / 3 / 2A / 3A

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

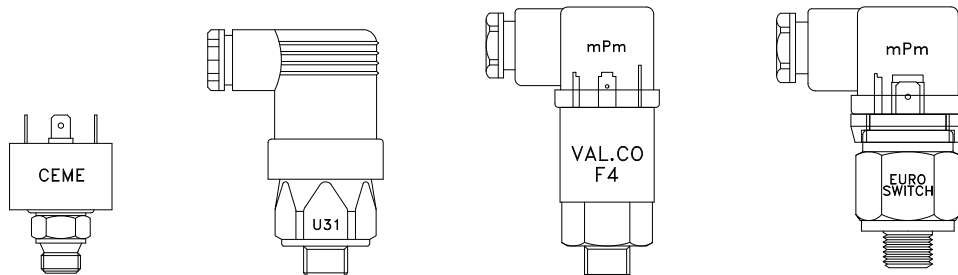
Typically the pump will not start despite zero outlet pressure (e.g. tap open). BTMIDI 2A / 3A has Advanced controls including a pump anti-seize pulse timer. Turning the power off and back on, should cause the pump to run for 1 second, if the outlet is open the pump may continue to run at this point. This suggests pressure switch failure or blocked port to pressure switch or wiring damage.

The pressure switch is fitted to the outlet manifold towards to base of the cabinet.

Types of pressure switch

Four 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.

A replacement “U31 SUCO” type switch - manufactured from a better grade of stainless steel - is available, which suits the original plug. Please contact us for free replacement if the pump set is less than two years old. We require serial number and model.



Make	CEME	U31 SUCO	Valco F4	Euro switch
Years	Nov 2005 – June 06	July 06 – Oct 09	Nov 09 - May 10	June 10 onwards
Serial nos.	Up to & inc MD014	MD015 – MD298	MD299 – MD416	MD417 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. *Note the replacement for the U31 SUCO is a better grade of stainless steel and is less prone to this.*

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)
BTMIDI-1	ELF4/M3-1.2	1.2 bar
BTMIDI-2 up to and inc. serial MD285	ELF4/M3-1.2	1.2 bar
BTMIDI-2 from serial MD286	ELF4/M3-2.2	2.2 bar
BTMIDI-3 & BTMIDI-3A	ELF4/M3-2.2	2.2 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.