

# Ajax

## Series **AJ** ELECTRIC FLOW INDICATORS



- Weatherproof Enclosure in Gunmetal. Also available to IP66.
- Versatility of Switching Circuits.
- Rugged Construction.
- Range ¾" to 16" bore  
Flow range 25 litres/min to  
20,000 litres/min.
- Low pressure drop.
- Visual indication of flow.

The Bamford Ajax series of Electrical Flow Indicators are a generation of ruggedly constructed devices for automatic control and reliable protection of machinery and plant. The units can be mounted in horizontal, vertically upward or vertically downward attitudes. The functionally designed enclosure is standard on all models to meet the arduous conditions experienced in various sections of industry. Single or double switchbox versions are available. The standard precision snap action microswitch is a single pole double throw type; however, one or two microswitches with silver plated noble metal contacts may be fitted to provide versatility of switching circuits, which may be factory set or can be field adjustable.

The flow indicator is specifically designed to warn instantly of a failure or change of flow in a liquid circuit. Based on simple principles, the flow induced movement of a hinged flap is converted by eccentrically mounted bearings into a rocking motion of a vertical rod, which, pivoted about a special double seal, operates at its upper end the adjustable microswitch, or switches. The materials of construction cater for the majority of liquids, with the toughened glass viewing ports offering a visual indication of flow. Double glazed versions are also available.

### **F. Bamford (Instruments) Ltd.**

Ajax Works,  
Whitehill,  
Stockport, SK4 1NT. United Kingdom.

Telephone: 0161-480 6507

Fax: 0161-474 7990

Web: [www.bamfordinstruments.com](http://www.bamfordinstruments.com)

Email: [sales@bamfordinstruments.com](mailto:sales@bamfordinstruments.com)

# Specifications

## Screwed connections -

¾" to 3" nom. Bore female  
BSP parallel or taper, NTP or API

## Flanged connections -

¾" to 16" BST 'D', BST 'E', Class 150  
(flat or raised face)  
BS4505; DIN, NP6, NP10 or NP16  
(alternative flanges available).

## Maximum working pressure

### Standard version

All models – 7 BAR

## Maximum working pressures

### High pressure version

#### (screwed connections) -

¾" to 2 ½" nom. Bore – 28 BAR G  
3" nom. Bore 21 BAR. G

## Maximum working pressures

### High pressure version

#### (flanged connections) -

¾" to 2 ½" nom. Bore – 28 BAR G  
3" nom. Bore 21 BAR. G  
4" nom. Bore 17.5 BAR. G  
5" & 6" nom. Bore 14 BAR. G  
7" to 16" nom. Bore 10 BAR. G

## Maximum working temperature

All models – 120°C

End of line or series resistors can be fitted if required

## SWITCH RATING (STANDARD)

| VOLTS | DC    |       | AC  |     |
|-------|-------|-------|-----|-----|
|       | RES   | IND   | RES | IND |
| 30    | 10A   | 10A   | 10A | 10A |
| 125   | 0.5A  | 0.07A | 10A | 10A |
| 250   | 0.25A | 0.03A | 10A | 10A |
| 440   | *     | *     | *   | *   |

\* Alternative switches may be fitted for 440 volts or intrinsic safe circuits.

## Switch housing:

Gunmetal BS 1400 LG2

## Indicator body and flap:

Manufactured in either:  
Gunmetal BS 1400 LG2  
Stainless Steel Grade 316  
Other materials available to order

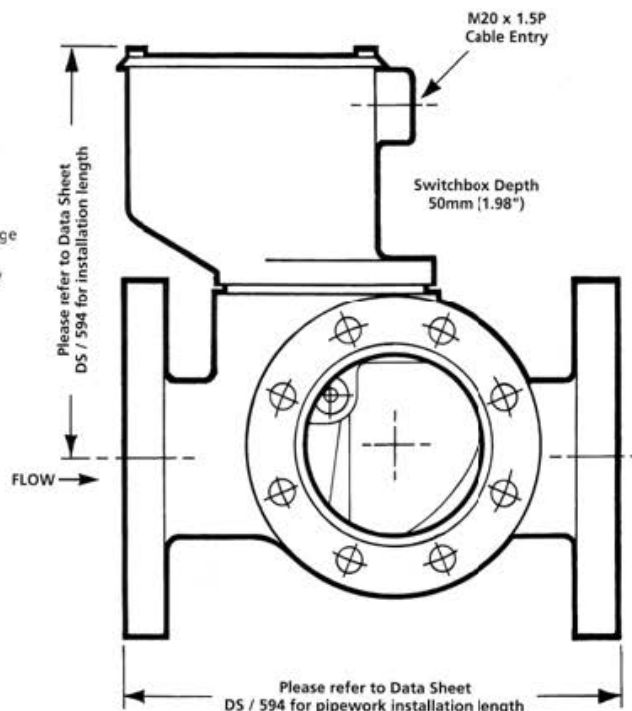
## Wetted parts -

Manganese bronze, Stainless Steel or Monel

## Dimension Drawing

This drawing is representative of the range of switches available. Please consult the factory for a detailed drawing / specification sheet.

Connections:-  
Screwed - ¾" to 3" N.B.  
Flanged - ¾" to 16" N.B.



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