

Flow Switch

Oil and Water Flow Applications



TELEFLO® Model 816BC

The TELEFLO® Model 816BC flow switches are simple and rugged flow switches designed for a wide range of oil and water flow applications. For over 70 years, the TELEFLO® flow indicator and switch has provided equipment protection against the loss of flow, protecting thousands of installations against costly equipment damage due to inadequate liquid flow. Applications where the Model 816BC flow switch provides loss of fluid flow protection are lube oil systems, gearbox lube oil circuits, cooling water lines, seal water lines, and machine tool coolants. Areas where the Model 816BC flow switch is most often used are mining, pulp and paper, steel and aluminum mills, and power generation. Loss of oil or water flow can produce costly failures for critical equipment. The family of Model 816BC flow switches is a simple and low cost solution to protect your equipment from loss of fluid flow.

BENEFITS

- o Simple: Simplicity of design and operation is one of the leading benefits. This easy to comprehend flow switch has provided a simplistic alternative to other flow switches. Long term popularity is attributed to its simple design and operation. The 816BC is easy to install and can be mounted at any angle.
- o Heavy Duty Construction: The durable bronze body provides a rugged and robust device that withstands industrial environments. Even in the roughest operation, it remains reliable.
- o Fluid Flow Protection: Protecting bearings, gears, tools, and seals from loss of fluid flow keeps your equipment operational and free from failures.



In addition to switching at the factory preset "no flow" setpoint, these flow switches have a pointer indicating flow on a numberless dial scale. The switch can be connected to a light, or a relay, to trigger a "low flow" or "no flow" alarm. The 816BC is NOT a flow meter (it only indicates flow is present).

SPECIFICATIONS & DETAILS	
Connection Size and Type	816BC-1/2 = 1/2 inch NPT 816BC-3/4 = 3/4 inch NPT 816BC-1 = 1 inch NPT 816BC-1-1/2 = 1.5 inch NPT 816BC-2 = 2 inch NPT
Factory Switch Setpoint⁽¹⁾	150 SSU (ISO 32) Oil / Water: 816BC-1/2 = 2.5 GPM (9.5 LPM) / 6 GPM (23 LPM) 816BC-3/4 = 4.5 GPM (17 LPM) / 8 GPM (30 LPM) 816BC-1 = 7 GPM (27 LPM) / 10 GPM (38 LPM) 816BC-1-1/2 = 9 GPM (34 LPM) / 12 GPM (45 LPM) 816BC-2 = 11 GPM (42 LPM) / 14 GPM (53 LPM)
Flow Rate Indicating Range⁽²⁾	816BC-1/2 = 2 GPM (8 LPM) - 28 GPM (106 LPM) 816BC-3/4 = 4 GPM (16 LPM) - 32 GPM (121 LPM) 816BC-1 = 6 GPM (23 LPM) - 60 GPM (227 LPM) 816BC-1-1/2 = 8 GPM (31 LPM) / 70 GPM (265 LPM) 816BC-2 = 10 GPM (38 LPM) / 75 GPM (285 LPM)
Materials of Construction	Bronze Housing, Aluminum, and Clear Acrylic Plastic Elastomers: Viton and Garlock 7022
Size and Weight	816BC-1/2: L = 3.63, W = 2.94, H = 3.38, Weight = 1 lbs (.5 kgs) 816BC-3/4: L = 3.63, W = 2.94, H = 3.38, Weight = 1 lbs (.5 kgs) 816BC-1: L = 3.63, W = 2.94, H = 3.38, Weight = 1 lbs (.5 kgs) 816BC-1-1/2: L = 3.63, W = 2.94, H = 3.38, Weight = 1 lbs (.5 kgs) 816BC-2: L = 3.63, W = 2.94, H = 3.38, Weight = 1 lbs (.5 kgs)
Maximum Operating Pressure	125 psig at 125F
Enclosure	Moisture Proof and Dust Proof (NEMA 4)
Operating Temperature Range	-10°F - 200°F (-23°C - 93°C)
Switch	Single pole, double throw (SPDT) switch Switch Actuation: 2nd graduation mark on scale (approx.) Contact Rating: 15/7 amps at 120/240 VAC Conduit Connection: 1/2 inch NPT female

FOOTNOTES

- (1) Flows below this setpoint may not show indication on the scale. It is not recommended to apply the 816BC for flows below the switch setpoint.
 (2) The flow range is an approximate range based upon 150 SSU (ISO 32) oil at 100F. The range should be used as guide.

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