

0.1 to 1.5 GPM

Piston Sensor for Liquids

Features

- Compact size
- Low cost
- OEM design
- Brass or stainless steel



Our 30000 Series fixed set-point flow switches have factory-preset settings. The many features and the adjustability found on our other models have been designed out.

Their compact size and basic profile results in low cost switches that can be mounted where space is limited. This makes them popular for OEM applications where simple flow switch actuation is required.

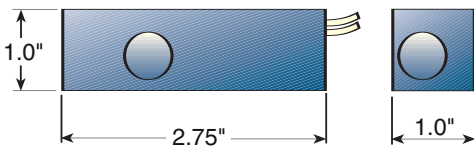
Rugged materials are used to allow for long-term, high-pressure use. The switches are popular for portable systems where shock and vibration are common. Stainless steel springs and brass or stainless steel pistons and pressure bodies allow for use in a variety of applications.

Applications

- Lubricating systems
- Chillers, coolers
- Heat exchangers

Dimensions

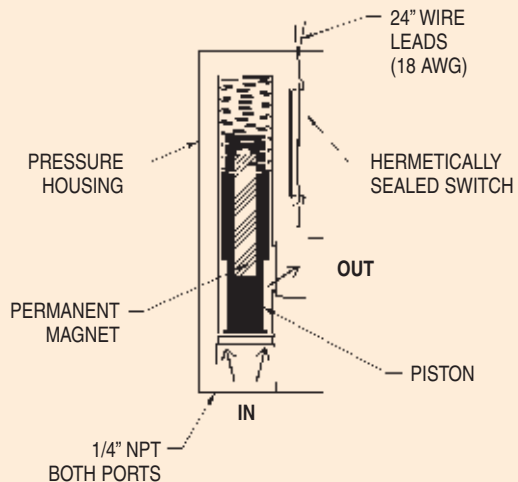
Detailed dimensional information is available on the Orange Research website.



30000 Series

How it works

Designed for in-line use, the fluid enters the end connection and exits the side port. As the fluid passes through the unit it pushes against a spring-loaded piston magnet sensor. As the sensor magnet moves into proximity of the reed switch the switch is actuated.



Specifications (Detailed Specification Sheets on Website)

Set-points	0.1, 0.25, 0.5, 0.75, 1.0, 1.5 GPM
Wetted parts – Brass models	Brass and stainless steel
Wetted parts – SS models	Stainless steel
Maximum pressure	1000 psig (200 bar)
Accuracy	10% FS
Repeatability	1%
Deadband	20% max.
Temperature	-20°F to +200°F (-29°C to +93°C)
Porting	1/4" NPT
Electrical	
Options	SPST-N.O., SPST-N.C. or SPDT
Ratings – pilot duty	20 VA max., 50-250 VAC
Ratings – resistive load	20 W max., 120-240 VAC or VDC
Wires	No. 18 AWG. wire, 24" long, PVC

Calibration

The switches are calibrated on increasing flow in the vertical position on water at 70°F. For other fluids or conditions special calibration is available. In this case, specify orientation, fluid, specific gravity and viscosity.

How to Order

Select model based on switch set-point and material. Special calibration and designs are available.

Reordering? You must supply the Part Number from your instrument label.

Set-point	BRASS PART NUMBERS			STAINLESS STEEL PART NUMBERS		
	SPST N.O.	SPST N.C.	SPDT	SPST N.O.	SPST N.C.	SPDT
0.1 GPM	30101	30141	30121	30201	30241	30221
0.25 GPM	30102	30142	30122	30202	30242	30222
0.5 GPM	30103	30143	30123	30203	30243	30223
0.75 GPM	30104	30144	30124	30204	30244	30224
1.0 GPM	30105	30145	30125	30205	30245	30225
1.5 GPM	30106	30146	30126	30206	30246	30226