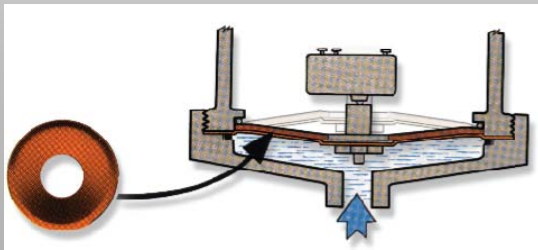




**Custom Control Sensors, Inc.**

# DUAL-SNAP<sup>®</sup> PRESSURE, DIFFERENTIAL, VACUUM, TEMPERATURE & FLOW SWITCHES

Custom Control Sensors, Inc. (CCS) has been a global leader in the design, manufacturing and supply of standard and custom pressure, temperature and flow switches for the Aerospace, Defense and Industrial markets since 1957. CCS switches are highly reliable devices that utilize a “DUAL-SNAP” action disc spring principle pioneered by Custom Control Sensors over 50 years ago.



CCS' Airborne Division provides standard and custom switches for the aerospace, defense, commercial aviation and government spare agency markets. CCS also supplies PMA parts for Boeing, Airbus and numerous general aviation aircraft.

CCS' Industrial Division provides standard and custom switches for the industrial, chemical process, medical and energy markets. Certifications include – UL, CSA and ATEX.

CCS switches cover pressure ranges from .25” H<sub>2</sub>O to 5,000 psi. Normal service life ranges up to 500,000 operating cycles and proof pressures to 12,000 psi. These switches are designed to operate in ambient temperature ranges from -65°F to 450°F, withstand vibration up to 40G's at 3,000 Hz and shock loads up to 250G's. Special switches operate with highly volatile, exotic fluids and withstand vibration through 65G's and shock exceeding 3,000G's with proof pressures to 25,000 PSIG.

All Dual-Snap aerospace switches are designed or can be modified to meet various requirements of MIL-S-9395, MIL-STD-810 or MIL-STD-202. These requirements, among others, include:

Environmental test requirements such as salt spray, temperature cycling, humidity, sand and dust, moisture resistance; physical characteristic tests such as vibration, shock, and acceleration; electrical characteristic tests such as dielectric, insulation resistance and contact resistance.



Pneumatics, Fuel, Oil and Hydraulic Pressures  
Lube Oil Temperature



Differential Fuel and Oil Pressures on  
CFM 56-5A/B Engine Nacelles



Fuel and Oxygen System Pressures



Pneumatics, Fuel, Oil, Water and Hydraulic Pressures



Pneumatics, Fuel, Oil and Hydraulic Pressures



Fuel and Lube Oil Pressures

# DUAL-SNAP® PRESSURE, DIFFERENTIAL, VACUUM, TEMPERATURE & FLOW SWITCHES

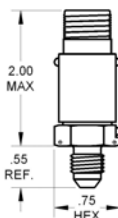
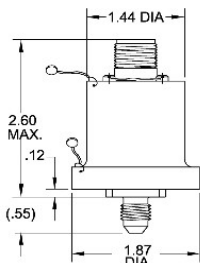
ENGINEERED WITH BUILT-IN QUALITY, RELIABILITY AND SUPPORT



## 1G SERIES

### Gage Pressure

Operating range: .5 to 100 psig  
 Proof pressure to 1,000 psig  
 Low range pressure switch for fuel or pneumatic systems.  
 Service life to 150,000 cycles at 100% of range.  
 Weighs 4 oz. (approx.)



## 7G SERIES

### Gage Pressure

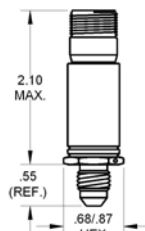
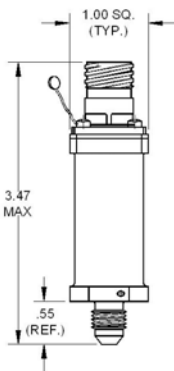
Operating range: 15 to 1,000 psig  
 Proof pressure to 5,000 psig  
 Lightweight, miniaturized switch for hydraulic, pneumatic or fuel systems.  
 Weighs 2 oz. (approx.)



## 7G SERIES

### Piston

Operating range:  
 250 to 5,000 psig  
 Proof pressure to 12,000 + psig  
 Gage pressure switch with piston type sensing element for hydraulic applications.  
 High shock resistance.  
 Service life to 500,000 cycles at 100% of range.  
 Weighs 3 oz. (approx.)



## 8A, 8G SERIES

### Absolute • Gage Pressure

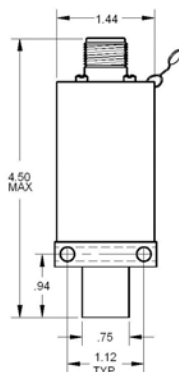
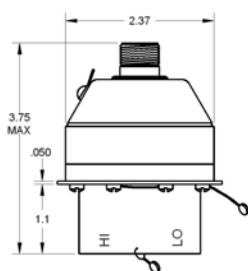
Operating ranges:  
 8A - .5 to 300 psia  
 8G - .5 to 1,500 psig  
 Proof pressure to 500 psia or 5,000 psig.  
 Lightweight, miniaturized switch with high vibration and shock resistance for hydraulic, pneumatic or fuel systems.  
 Weighs 1.5 oz. (approx.)



## 42D, G and V SERIES

### Differential • Gage • Vacuum

Operating range:  
 Gage pressure - 1.5 to 100 psig  
 Differential pressure - 1.5 to 100 psid  
 Proof pressure to 250 psig  
 Low range switches for hydraulic, pneumatic or fuel systems.  
 Suitable for pressure or vacuum.  
 Weighs 9 oz. (approx.)



## 90G SERIES

### Piston

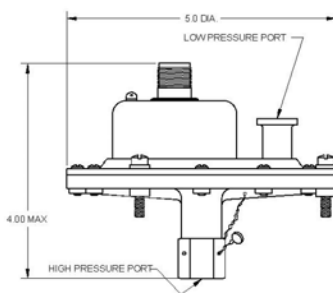
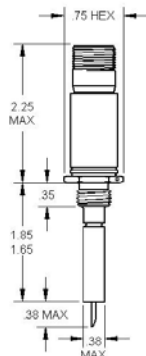
Operating range:  
 250 to 4,000 + psig  
 Proof pressure to 7,500 + psig  
 Mid to high range gage pressure switch with piston type sensing element for hydraulic systems.  
 High shock resistance.  
 Service life to 500,000 cycles at 100% of range.  
 Weighs 6 oz. (approx.)



## 150T SERIES

### Temperature

Operating range: 25° to 800°F  
 Proof temperature - 100°F above set point standard.  
 Lightweight, miniaturized switch with high vibration and shock resistance for hydraulic, pneumatic or fuel systems.  
 Weighs 2.5 oz. (approx.)



## 75D, G & V SERIES

### Differential • Gage • Vacuum

Operating range:  
 .25" to 30" H<sub>2</sub>O.  
 Proof pressure to 100 psig.  
 Vacuum range suitable for use in gage or differential applications in pneumatic or fuel systems.  
 Weighs 12 oz. (approx.)



switchnet@ccsdualsnap.com  
 www.ccsdualsnap.com



21111 Plummer Street  
 Chatsworth, California 91311  
 Tel. 818.341.4610 • Fax

Custom Control Sensors, Inc.