

MODEL 703-U

Fixed Setting Design 316 Stainless Steel Construction Pressure Range: 6 to 5000 PSI Hazardous Location Rated, Explosion Proof



DESCRIPTION

The Model 703-U, Fixed is a heavy duty fixed pressure switch for use in gaseous or liquid fluid systems. Its 316 stainless steel construction resists the effects of corrosive elements. The Model 703-U, Fixed has been used in applications where its rugged piston design assures high over-pressure capability with exceptional accuracy and repeatability. Its hazardous location rating and explosion proof design is suited to off-shore uniquely exploration, transportation and processing of petro-chemicals.

FEATURES

- ✓ High Over Pressure Capability
- ✓ Corrosion Resistant Stainless Steel Construction (AISI 316SS conforming to NACE MR-01-75)
- ✓ UL Listed for Use in Hazardous Locations Class 1: Division 1, Groups A, B, C, D Class 2: Groups E, F, G
- ✓ NEMA Type 7 Rating

APPLICATIONS

✓ Off-shore Exploration

- ✓ Petro-chemical Processing
- ✓ Industrial OEM Equipment

STANDARD SPECIFICATIONS

Pressure Connection	Electrical	Electrical Configuration	Electrical Connection	Lubrication	Materials	Temperature Range	Filtering	Shipping Weight
1/4"- 18 NPT (Male) Standard Other Options Available	Snap-action Electrical Switch Listed by UL & CSA At 28 VDC: 7 Amps Resistive; 4 Amps Inductive; 2 ½ Amps Lamp Load UL Listed Hazardous Locations (Explosion Proof)	Single Pole Double Throw (SPDT) Double Pole Double Throw (DPDT)	1/2"-NPT (Male) w/ 5 full threads for conduit engagement Lead wires - Type UL 1015 AWG #18, 24" Long, factory sealed. Conforms to UL 698 Tenth Edition	Silicone Base Other Options Available	Hydraulic & Electric Modules AISI 316 Stainless Steel, Conforming to NACE MR-01-75	Fluorocarbon Seals +20°F to 160°F +6°C to +71°C Nitrite Seals -40°F to + 160°F -40°C to + 71°C Withstands All-weather Use; NEMA Type 7	Pressure Ranges through 750 PSIG, inlet port contains 316 SST Sintered porous disc rated 20 microns maximum	Approx. 1 lb

*Pressure adjustment is factory set to be held on rising or falling pressure, **Consult factory for non-standard options

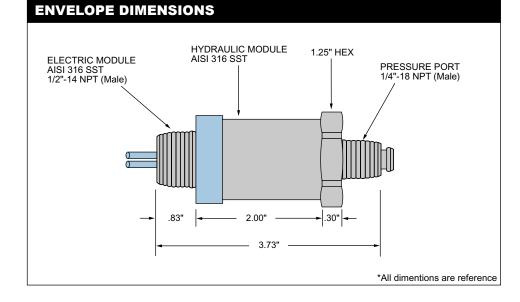
OPERATING PRESSURE DATA

Series	Set Point Range	Tolerance On Set Point	Dead Band*	Max System Pressure	Proof Pressure				
703-U	6 - 50	± 1 / ±3	2/6	400	600				
703-U	50 - 200	± 3 / ±10	8 / 20	600	900				
703-U	200 - 750	± 12 / ±15	25 / 70	3000	4500				
703-U	750 - 2500	± 20 / ±40	80 / 225	5000	7500				
703-U	2500 - 5000	± 50 / ±75	220 / 400	7500	10000				

Note: Pressure in PSIG, *Interpolate for Intermediate Pressures.



BASIC PRINCIPLES OF DESIGN Rigid Sigma - Shoe Epoxy Dynamic Seal Actuator Lead Wires Disk Spring Pressure Port O-Ring Static Seal Conduit Connection Piston **Snap Action** Actuator Mechanical Switch(s) Stop-over Pressure Protection



ORDERING PROCEDURE Electrical Set Pressure Held On Series Set Seal Number Configuration Pressure Material 703-U ΔΔ E 0060 Ν R = Rising A=SPDT 0060 = N-Nitrile AA=DPDT F = Falling 60 PSIG (Buna-N) *Insert available option number or letter as required Example: 703-UAAF-0060 N

ORDERING SEQUENCE

Series

- 703-U Environmentally Sealed Fixed Setting Pressure Switch
- See Operating Pressure Data table

Electrical Configuration

A - Single Pole Double Throw (SPDT)
AA - Double Pole Double Throw (DPDT)

Set Pressure to be Held on

- R Rising Pressure
- F Falling Pressure

Set Pressure

- Specify factory set pressure in 4-place PSIG
 (Everyptic) 1250 or 0060 for 60 PSIC
- (Example: 1250 or 0060 for 60 PSIG)

Seal Materials

- V Fluorocarbon Standard
- N Nitrile (BUNA-N)
- As low as -40°F (-40°C) operation

Special Items

- Wire, cable, and cable length
- Pressure connection
- Seal materials
- Gold electrical contacts for low current applications
- · Consult factory for special items