

## MODEL 703-UJ

**Field Adjustable Design**  
**316 Stainless Steel Construction**  
**Pressure Range: 6 to 5000 PSI**  
**Hazardous Location Rated, Explosion Proof**



### DESCRIPTION

The Model 703-UJ, Adjustable is a heavy duty adjustable pressure switch for use in gaseous or liquid fluid systems. The 316 stainless steel construction resists the effects of corrosive elements while rugged piston design assures high over-pressure capability with exceptional accuracy and repeatability. This switch has been designed for ease of field adjustment with a tamper-resistant locking mechanism to maintain set point integrity. Its hazardous location rating and explosion proof design is uniquely suited to offshore 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	Snap-action Electrical Switch Listed by UL & CSA	Single Pole Double Throw (SPDT)	1/2"-NPT (Male) w/ 5 full threads for conduit engagement	Silicone Base	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	Pressure Ranges through 750 PSIG, inlet port contains 316 SST	Approx. 1 lb
Other Options Available	At 28 VDC: 7 Amps Resistive; 4 Amps Inductive; 2 1/2 Amps Lamp Load	Double Pole Double Throw (DPDT)	Lead wires - Type UL 1015 AWG #18, 24" Long, factory sealed. Conforms to UL 698 Tenth Edition	Other Options Available		Nitrite Seals -40°F to + 160°F -40°C to + 71°C	Sintered porous disc rated 20 microns maximum	
	UL Listed Hazardous Locations (Explosion Proof)					Withstands All-weather Use; NEMA Type 7		

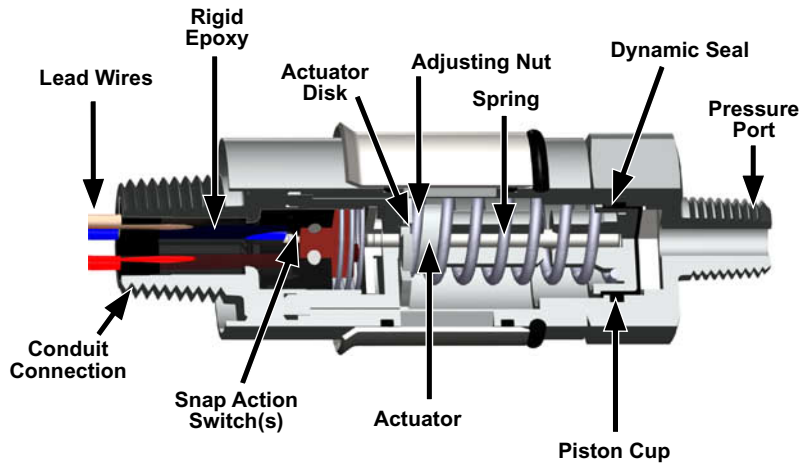
\*Pressure adjustment is adjustable within ranges shown in table, \*\*Consult factory for non-standard options

### OPERATING PRESSURE DATA

Series	Range Number	Adjustment Range	Dead Band*	Max System Pressure	Proof Pressure
703-U	0035	6 - 35	2 / 4	400	600
703-U	0060	15 - 60	3 / 7	400	600
703-U	0250	50 - 250	8 / 20	600	900
703-U	0750	200 - 750	25 / 70	3000	4500
703-U	2500	700 - 2500	80 / 225	5000	7500
703-U	5000	2500 - 5000	220 / 400	7500	10000

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

## BASIC PRINCIPLES OF DESIGN



## ORDERING SEQUENCE

### Series

- 703-U - Environmentally Sealed Adjustable Pressure Switch

### 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

### Type

- J - Adjustable Switch

### Pressure Range

- See Operating Pressure Data table
- Specify range number in 4-places (Example: 0060 for 60)

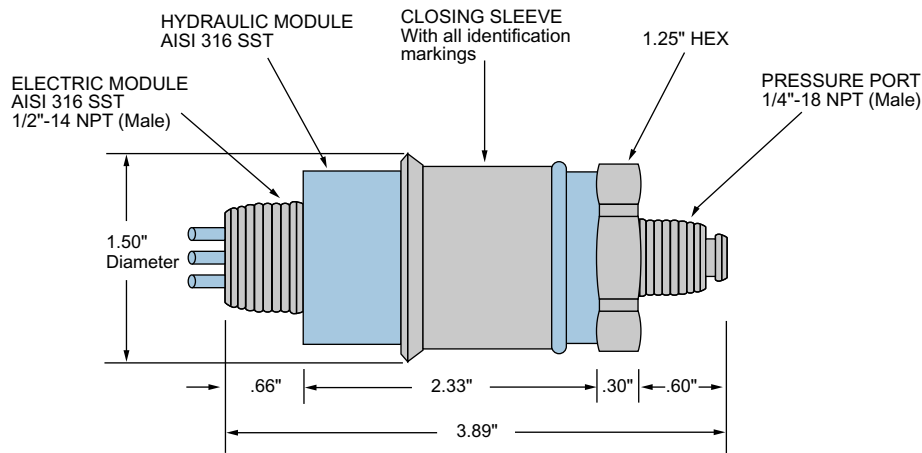
### Seal Materials

- 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

## ENVELOPE DIMENSIONS



\*All dimensions are reference

## ORDERING PROCEDURE

Series Number	Electrical Configuration	Type	Range Number	Seal Material
703-U	AA ↓ A=SPDT AA=DPDT	J ↓ J = Adjustable	0060 ↓ 0060 = 15-60 PSIG	N ↓ N-Nitrile (Buna-N)

\*Insert available option number or letter as required

Example: 703-UAAJ-0060 N