

# HEAVY-DUTY ADJUSTABLE SWITCH FOR HAZARDOUS LOCATIONS



The **Model 703-UJ** is a heavy-duty, field adjustable pressure switch for use in gaseous or liquid fluid systems. In addition to featuring corrosion-resistant stainless steel construction and rugged piston design, this switch includes a tamper-resistant locking mechanism that maintains setpoint integrity. Thanks to its hazardous location rating and explosion-proof design, the Model 703-UJ is suitable for offshore exploration, petrochemical processing and more.

## FEATURES

- Field adjustable pressure
- High over-pressure capability
- Corrosion-resistant 316L stainless steel
- 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

- Offshore Exploration
- Petrochemical Processing
- Industrial OEM Equipment
- Oil and Gas Pipelines
- Control Panels

## 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 and CSA	Single Pole Double Throw (SPDT)	1/2"-NPT (Male) with 5 full threads for conduit engagement	Silicone Base	Hydraulic and Electric Modules AISI 316 Stainless Steel, Conforming to NACE MR-0175	Fluorocarbon Seals: +20°F to +180°F -6°C to +71°C	Pressure Ranges through 750 PSIG, inlet port contains 316 SST Sintered porous disc rated 20 microns maximum	Approximately 1 lb. (.45 Kg)
1/2"-14 NPT (Male)	At 28 VDC: 7 Amps Resistive; 4 Amps Inductive; 2 1/2 Amps Lamp Load					Nitrile Seals: -40°F to +160°F -40°C to +71°C		
Options Available	UL Listed for Hazardous Locations (Explosion Proof)	Double Pole Double Throw (DPDT)	Lead wires - Type UL 1015 AWG #18, 24" Long, factory sealed. Conforms to UL 698 Tenth Edition	Options Available		Withstands All-weather Use; NEMA Type 7		

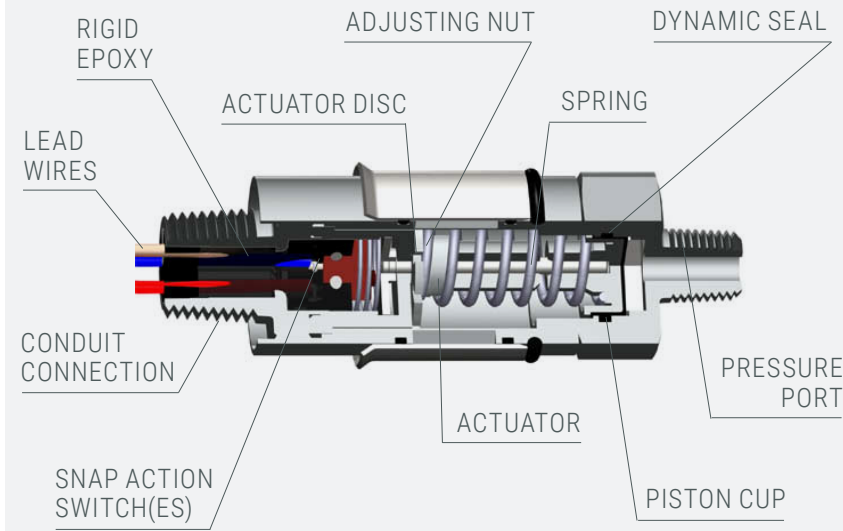
## OPERATING PRESSURE DATA

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

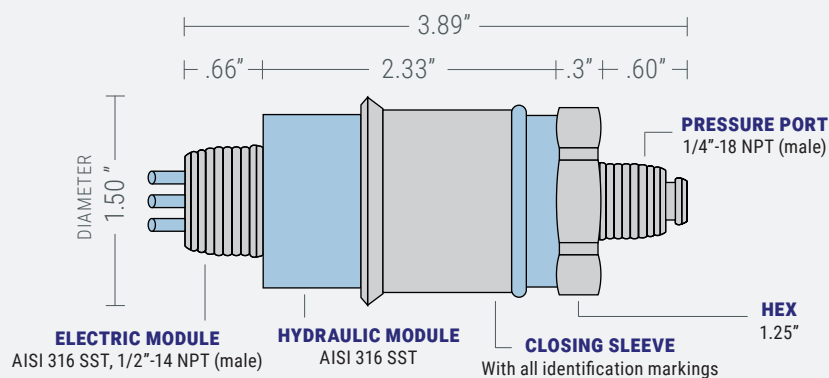
\*Interpolate for intermediate pressures \*Pressure in PSIG



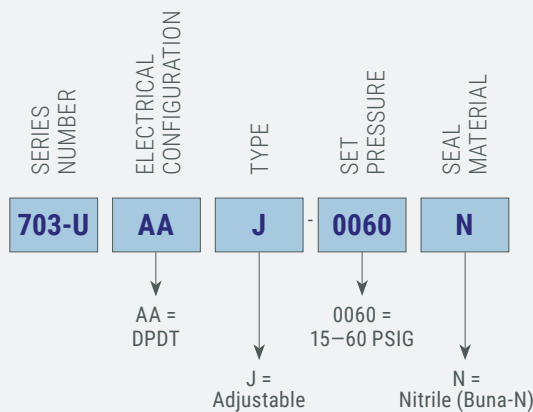
## BASIC PRINCIPLES OF DESIGN



## ENVELOPE DIMENSIONS



## ORDERING PROCEDURE



\*Insert available option number or letter as required

Example: 703-UAAJ-0060N

## ORDERING SEQUENCE

### SERIES

- 703-U - Environmentally Sealed Adjustable Pressure Switch

### ELECTRICAL CONFIGURATION

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

### TYPE

- J - Adjustable Switch

### PRESSURE RANGE

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

### SEAL MATERIALS

- V - Fluorocarbon (Viton™) - 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 rep or factory for special items