



Field Adjustable Design
Hazardous Location Rated
Explosion Proof



DESCRIPTION

The Model 703-UJ, Adjustable is a heavy duty, field 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

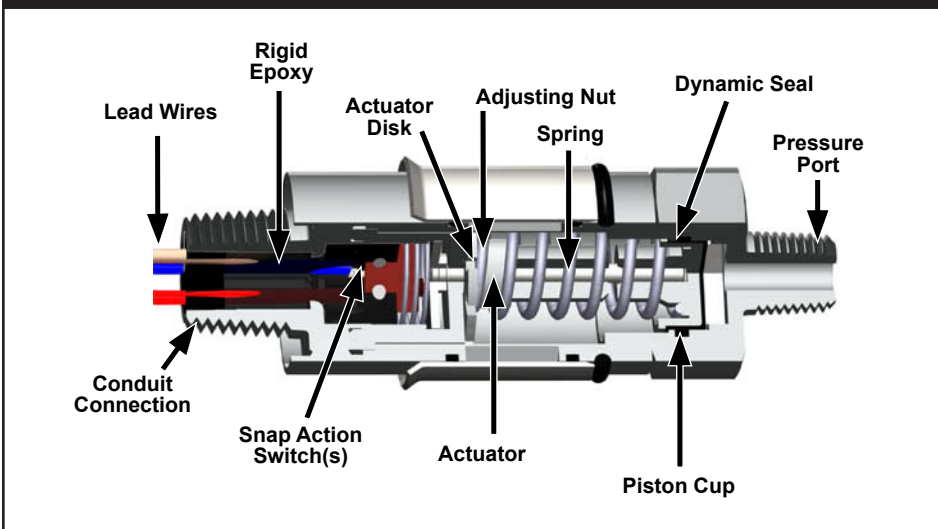
STANDARD SPECIFICATIONS

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 and 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 MR0175	Fluorocarbon Seals: +20°F to +180°F +6°C to +71°C Nitrile Seals: -40°F to +160°F -40°C to +71°C	Pressure Ranges through 750 PSIG, inlet port contains 316 SST Sintered porous disc rated 20 microns maximum	Approx. 1 LB
Options Available	At 28 VDC: 7 Amps Resistive; 4 Amps Inductive; 2 1/2 Amps Lamp Load UL Listed for Hazardous Locations (Explosion Proof)	Double Pole Double Throw (DPDT)	Lead wires - Type UL 1015 AWG #18, 24" Long, factory sealed. Confirms 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	
		PSIG	BAR	PSIG	BAR	PSIG	BAR	PSIG	BAR
703-U	0035	6 - 35	0.41 - 2.41	2 / 4	0.14 / 0.28	400	27.58	600	41.37
703-U	0060	15 - 60	1.03 - 4.14	3 / 7	0.21 / 0.48	400	27.58	600	41.37
703-U	0250	50 - 250	3.45 - 17.24	8 / 20	0.55 / 1.38	600	41.37	900	62.05
703-U	0750	200 - 750	13.79 - 51.71	25 / 70	1.72 / 4.83	3000	206.84	4500	310.26
703-U	2500	700 - 2500	48.26 - 172.37	80 / 225	5.52 / 15.51	5000	344.74	7500	517.11
703-U	5000	2500 - 5000	172.37 - 344.74	220 / 400	15.17 / 27.58	7500	517.11	10000	689.48

*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)

Type

- J - Adjustable Switch

Pressure Range

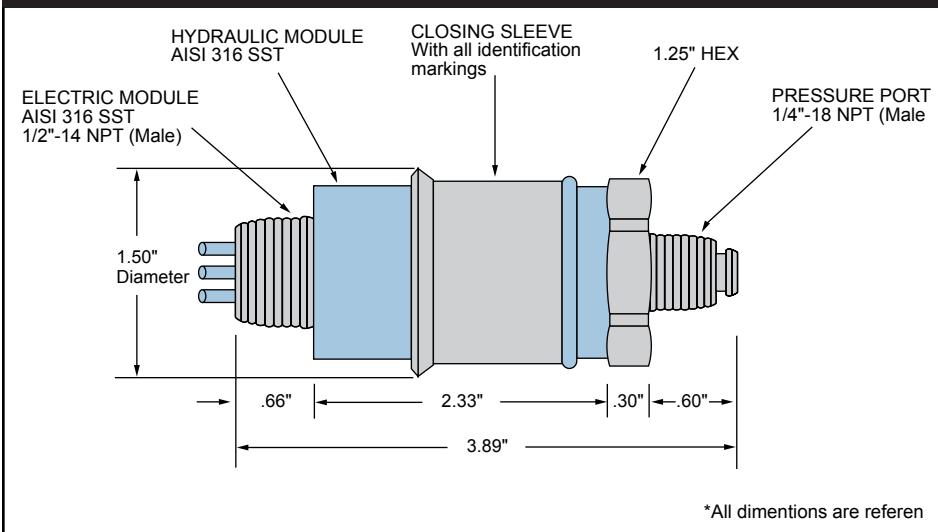
- See Operating Pressure data table
- Specify range number in 4 places (Example: 0060 for 60 PSIG)
- See Operating Pressure data table

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 rep or factory for special items

ENVELOPE DIMENSIONS

ORDERING PROCEDURE

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

*Insert available option number or letter as required

Example: 703-UAAJ-0060N