

HEAVY-DUTY FIXED SWITCH FOR HAZARDOUS LOCATIONS



The **Model 703-U** is a heavy-duty, factory set, fixed pressure switch for gaseous or liquid fluid systems. Thanks to its corrosion-resistant stainless steel construction, hazardous location rating and explosion-proof design, this switch thrives in demanding environments. The Model 703-U features a rugged piston—ensuring high accuracy and repeatability in applications that may experience overpressure, including offshore exploration and petrochemical processing.

FEATURES

- Factory-set fixed 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		

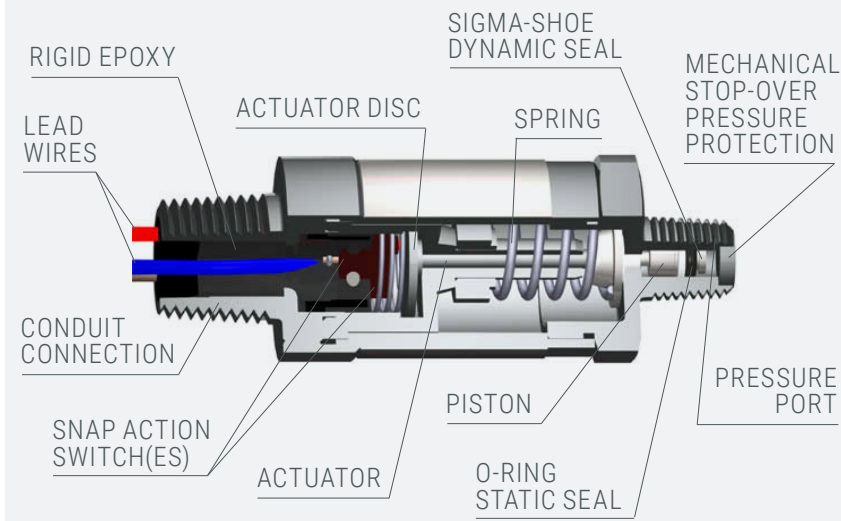
OPERATING PRESSURE DATA

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

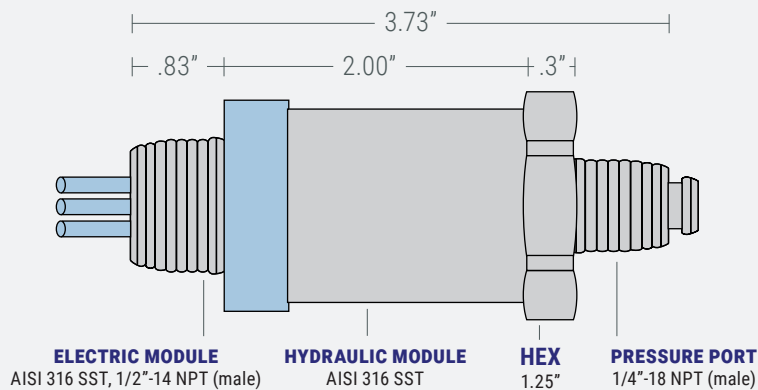
*Interpolate for intermediate pressures *Pressure in PSIG



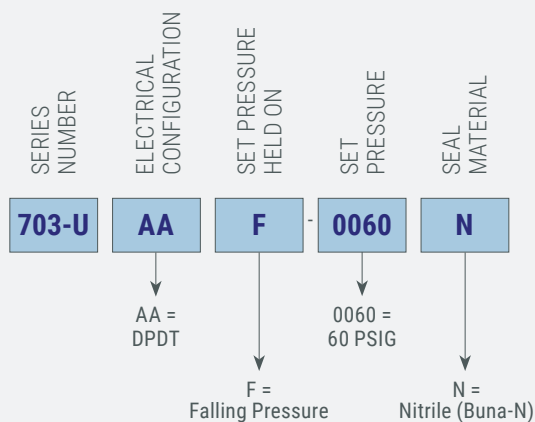
BASIC PRINCIPLES OF DESIGN



ENVELOPE DIMENSIONS



ORDERING PROCEDURE



*Insert available option number or letter as required

Example: 703-UAAF-0060N

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 (Example: 0060 for 60 PSIG)

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