



**Fixed Setpoint Design**  
**Extreme Environments**  
**High Electrical Capacity**



## DESCRIPTION

Heavy-duty, high electrical capacity, factory set miniature piston-operated pressure switch, ideal for use where limited installation space exists. Integral pressure port snubbing and rugged piston design assures long life, high- over pressure capability, and exceptional accuracy. For use in protected environments. Custom pressure port configurations and electrical connections are available.

## FEATURES

- High Over-pressure Capability
- High-strength Stainless Steel Construction
- Integral Pressure Port Snubbing
- Wide Media Compatibility Range
- High Shock & Vibration Survivability
- Wide Operating Temperature Range
- Custom Configuration
- UL Recognized
- NEMA Type 4 Rating

## APPLICATIONS

- Off Road Equipment
- Industrial OEM Equipment
- Train Braking Systems
- Compactors
- Compressors

## STANDARD SPECIFICATIONS

Pressure Connection	Electrical	Electrical Connection	Seal Materials	Materials	Temperature Range	Shipping Weight
1/4"-18 NPT	Snap-action Electrical Switch Listed by Underwriters Lab and CSA	3/16" QuickConnect Slip-on Terminals	Nitrile (Buna-N) "O"- Ring	Hydraulic Module Housing: 303 Stainless Steel	-40°F to + 250°F	Approximately 3 oz
1/8"-27 NPT		Options Available	Options Available	Electric Module Housing: Mineral-Filled Nylon	-40°C to + 120°C	
9/16"-18 UNJF-3A					Options Available	
Options Available	10 Amp 115-230 VAC 10 Amp Resistive 28-32 VDC 10 A Inductive @ 24 VDC 5 A Inductive @ 36 VDC 4 A Lamp Load @ 30 VDC					

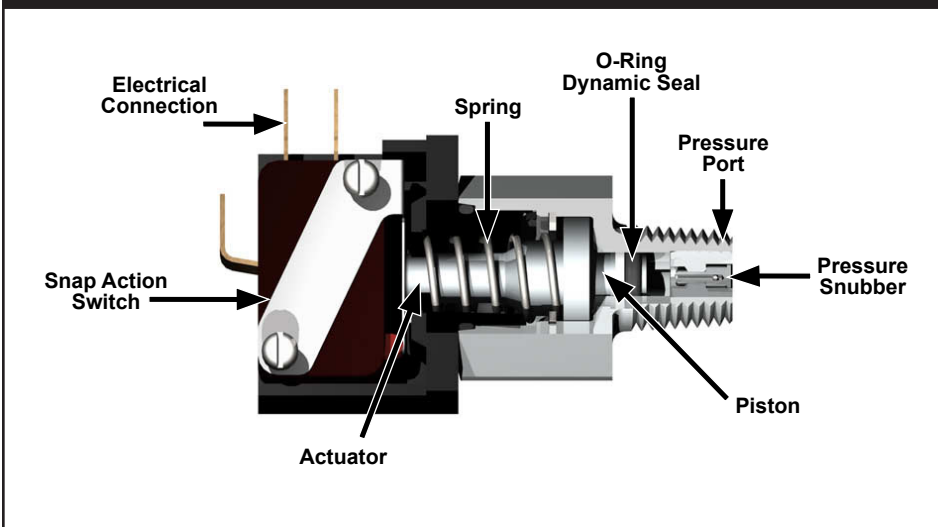
## OPERATING PRESSURE DATA

Series	Range Indicator	Pressure Range		Dead Band*		Max System Pressure		Proof Pressure	
		PSIG	BAR	PSIG	BAR	PSIG	BAR	PSIG	BAR
744	1	8 - 125	0.55 - 8.62	4 / 14	0.28 / 0.97	1500	103	2250	153
744	6	50 - 275	3.45 - 18.96	10 / 27	0.69 / 1.86	2400	165	3500	241
744	2	75 - 500	5.17 - 34.47	15 / 45	1.03 / 3.10	3000	207	4500	310
744	7	130 - 1000	8.96 - 68.95	20 / 95	1.38 / 6.55	3000	207	8000	552
744	3	300 - 1500	20.68 - 103.42	45 / 130	3.10 / 8.96	4500	310	6800	469
744	4	1250 - 3000	86.18 - 206.84	150 / 240	10.34 / 16.55	6500	448	10000	690
744	5	2500 - 6000	172.37 - 413.68	250 / 425	17.24 / 29.30	7500	517	12000	827

\*Interpolate for intermediate pressures



## BASIC PRINCIPLES OF DESIGN



## ORDERING SEQUENCE

### Series

- 744 - Set pressures between 8 and 6000 PSIG
- See Operating Pressure data table

### Pressure Connection

- 6 - 9/16"-18 UNJF-3A (MS33656-E6)
- 2 - 1/4"-18 NPT (Male)
- Consult factory for metric and additional configurations

### Pressure Range Number

- See Operating Pressure data table

### Type

- V - High Electrical Capacity, Fixed Setting Pressure Switch

### Electrical Connection

- 01 - SPDT - 3, 3/16" QuickConnect Slip-on Terminals - Standard
- 02 - SPDT - 3, #4-40 Screw Terminals

### 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)

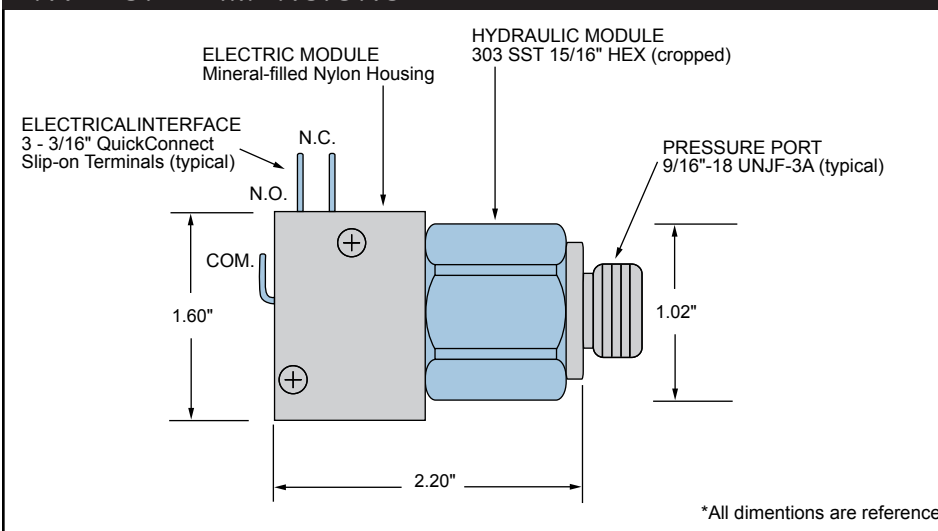
### Seal Materials

- T - Nitrile (BUNA-N) - Standard
- V - Fluorocarbon
- E - Ethylene Propylene
- Consult factory for other available materials

### Special Items

- 15 Amp 115-230 VAC rating
- Pressure connection
- Seal materials
- Consult factory for special items

## ENVELOPE DIMENSIONS



## ORDERING PROCEDURE

Series Number	Pressure Port	Range Indicator	Pressure Switch Type	Electrical Connector	Set Pressure Held On	Set Pressure	Seal Material
744	6	6	V	03	F	0060	T
	6 = 9/16"-18 UNJF-3A	6 = 50-275 PSIG	V = High Electrical Capacity	03 = SPDT - 3 Terminal Tabs	F = Falling Pressure	60 PSIG	T-Nitrile (Buna)

\*Insert available option number or letter as required

Example: 744.66-V03F-0060T