

FIELD ADJUSTABLE PRESSURE SWITCH FOR EXTREME ENVIRONMENTS



The **Model 744-C** is a miniature piston-operated, field adjustable pressure switch, ideal for use in limited installation space and where tough environments including oil, fuel, water, dust, impact and vibration exist. Wide range of adjustment with exceptional accuracy and repeatability. Tamper-resistant locking device on adjusting sleeve maintains integrity of set point. Integral pressure port snubbing and inherent rugged construction assure long life and high overpressure capability. Custom pressure port configurations and electrical connections available.

FEATURES

- High over-pressure capability
- High-strength stainless steel construction
- Integral pressure port snubbing
- Wide media compatibility range
- High shock and 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	Pressure Adjustment	Electrical	Electrical Connection	Seal Materials	Materials	Temperature Range	Shipping Weight
1/4"-18 NPT	Adjustable Within Ranges Shown in Table Below	Snap-action Electrical Switch listed by Underwriters Lab and CSA	3 Terminal Tabs #8-32 "SEMS" Screws	Nitrile (Buna-N) "O"- Ring	Hydraulic Module Housing: 303 Stainless Steel	-40°F to +250°F	Approximately 5 oz.
1/8"-27 NPT					Electric Module Housing: Aluminum		
9/16"-18 UNJF-3A		At 28 VDC: 7 Amps Resistive; 4 Amps Inductive; 2 1/2 Amps Lamp Load	Options Available	Options Available	Adjusting Sleeve: Aluminum Hard Coat Anodized	-40°C to +120°C	
Options Available							

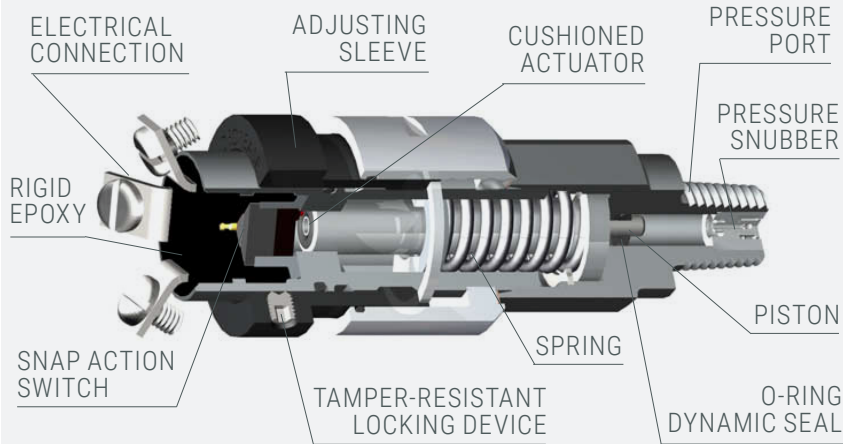
OPERATING PRESSURE DATA

Series	Range Indicator	Range Number	Adjustment Range	Dead Band*	Max System Pressure	Proof Pressure
744	1	0150	25 - 140	6 / 12	1500	2250
	6	0300	50 - 275	10 - 20	2400	3500
	2	0575	100 - 540	15 - 41	3000	4500
	3	1550	275 - 1500	40 - 110	4500	6800
	4	3500	625 - 3400	75 - 250	6500	10000
	5	6100	1100 - 6000	110 - 425	7500	12000

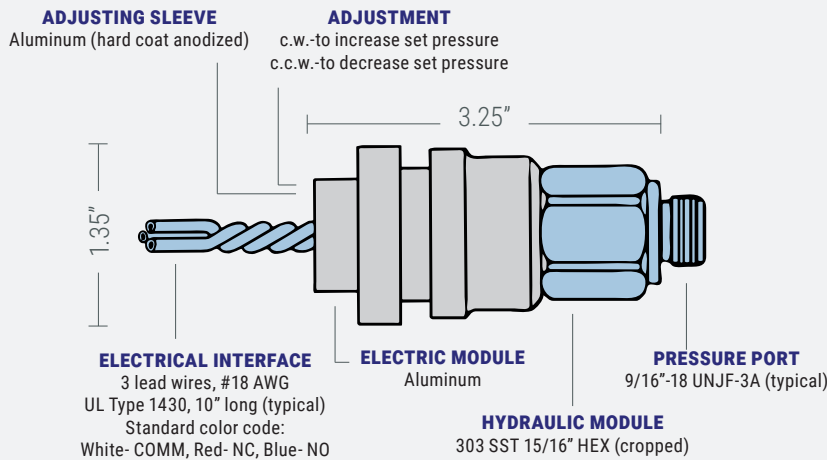
*Interpolate for intermediate pressures *Pressure in PSIG



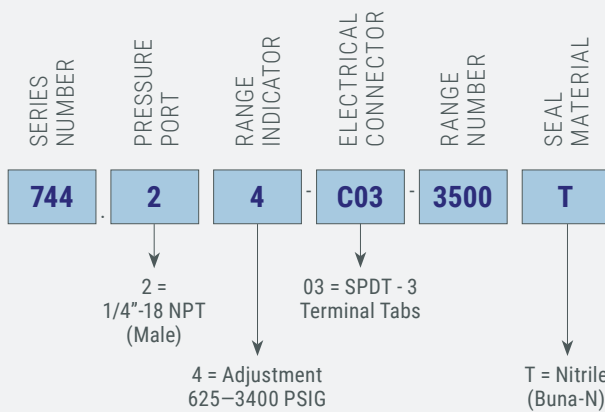
BASIC PRINCIPLES OF DESIGN



ENVELOPE DIMENSIONS



ORDERING PROCEDURE



*Insert available option number or letter as required

Example: 744.24-C03-3500T

ORDERING SEQUENCE

SERIES

- 744 - Set pressures between 25 and 6000 PSIG
- See Operating Pressure Data table

PRESSURE CONNECTION

- 1 - 1/8"-27 NPT (Male)
- 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
- Unless otherwise requested, units will be set at mid-range

TYPE

- C - Environmentally Sealed, Adjustable Pressure Switch
- NEMA Type 4

ELECTRICAL CONNECTION

- 03 - SPDT - 3 Terminal Tabs with #8-32 "SEMS" Screws
- 28 - SPDT - Weather Pack Connector with 4" lead wires (socket)
- 33 - SPDT - 3 #18 AWG lead wires 10" long
- 37 - SPDT - Weather Pack connector with 4" lead wires (pin)
- Consult factory for additional electrical configurations

SEAL MATERIALS

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

SPECIAL ITEMS

- Wire, cable and cable length
- Pressure connection
- Seal materials
- Weather-proof connectors
- Gold electrical contacts for low current applications
- Custom configurations
- Consult rep or factory for special items