



# Klixon | PRESSURE SWITCHES

25PS, 42PS, 44PS, 45PS and 46PS Series

LEADING THE WORLD IN SWITCH DESIGN

Sensata's 25PS pressure switch family of products has been designed for direct control of electric motors and other demanding load applications requiring precise pressure settings. Sensata's Klixon® snap acting disc is the heart of this hermetically sealed product offering. Extended electrical capacities and life cycles, in both environmentally sealed and unsealed configurations, encourage usage in the most rigorous electrical protection applications.

Sensata Technologies has been a leading global supplier of pressure sensors and switches for over 50 years.

### Features & Benefits

- Hermetically Sealed Sensor
- Snap Acting/Automatic Reset
- Custom Engineered Solutions
- Factory Calibrated Setpoints
- SPST or SPDT both normally open or closed contacts
- Electrically rated to 600V (44/45PS)
- High cycle life capability (42/44PS)
- Environmental sealing is available
- High current capability

### Applications

- Air Conditioning (R410a, R22, R134a, R470c, CO 2, (R333a), Ammonia (R717))
- Fan Cycling
- High capacity compressors
- Refrigeration Industrial Systems
- Extreme load applications
- Single Pole, Double Throw (SPDT) for alarm signaling

### Technical Specifications

#### Operating Pressure

500 psig (34 bar)

#### Proof Pressure\*

600 psig (41 bar)

#### Burst Pressure

5000 psig (345 bar)

#### Life at Rated Current

1,000,000 cycles 0-300 psig/milliamp load  
100,000 cycles 0-500 psig full amperage

#### Electrical Ratings

5 mA @ 9 Vdc to 2A @ 28 Vdc  
5.8 FLA/34.8 LRA @ 120 Vac  
2.9 FLA/15.0 LRA @ 240/277 Vac

#### Dielectric Strength

750 Vrms Open Contacts  
1500 Vrms Terminals to Fittings (ground)

#### Lead Wire Material

#16 & #18 AWG 600 V 105°C 1/32" PVC  
Quick Connects .250" x 0.032" straight male spa  
Others upon request; call Sensata

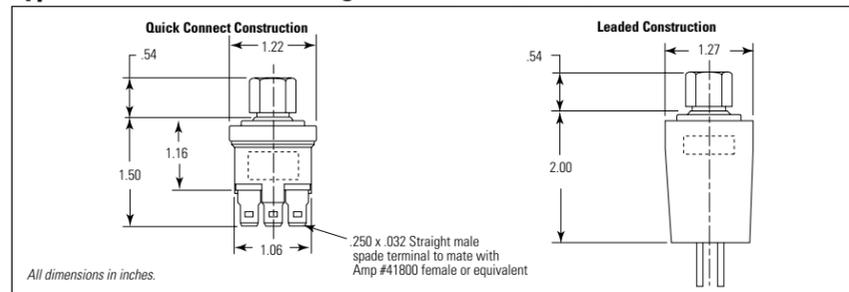
#### Ambient Temperature

-40°F to 257°F (-40°C to 125°C)  
(4% setpoint shift @ 100°C)

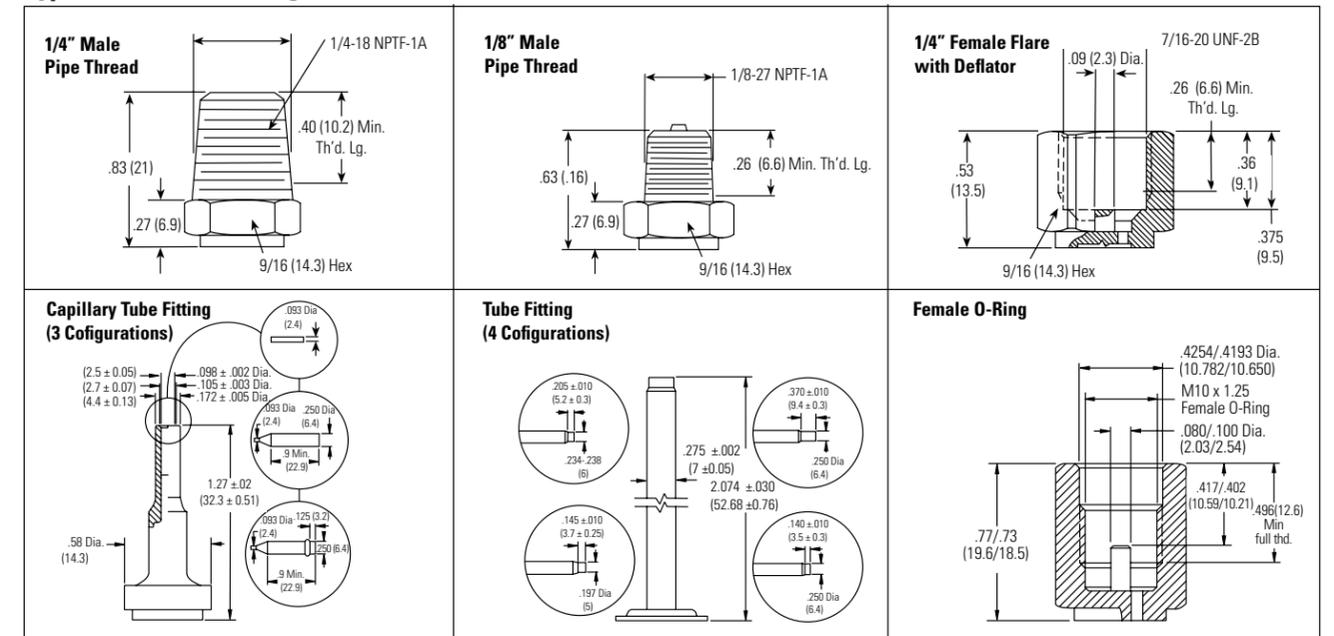
#### Fluid Temperature

-65°F to 275°F (-53.9°C to 135°C)

### Typical Dimensional Drawings - 25PS, 42PS, 44PS, 45PS



### Typical Standard Fittings (Other port fittings are available. Contact Marketing.)



### Electrical Ratings

Device	Switch Type**	28 Vdc	120 Vac				240 Vac				480 Vac		600 Vac	
		Amps Inductive	Amps Res	FLA	LRA	VA Pilot Duty	Amps Res	FLA	LRA	VA Pilot Duty	FLA	LRA	FLA	LRA
25/42PS	NO	15	13	13	65	125	10	10	45	125	-	-	-	-
	NC	15	25††	13	60	125	25††	10	45	125	-	-	-	-
25/42PS	NO	15	10	5.8	34.8	278	5	2.9	17.4	278	-	-	-	-
	NC	15	25††	13	60	125	25††	10	45	125	-	-	-	-
44/45PS	NO	15	13	13	65	125	10	10	45	125	4	24	3.2	19.2
	NC	15	25††	13	60	125	25††	10	45	125	4	24	3.2	19.2
44/45PS	NO	15	10	5.8	34.8	278	5	2.9	17.4	278	-	-	-	-
	NC	15	25††	13	60	125	25††	10	45	125	-	-	-	-