

1000S Series Locking Solenoid

Heavy-duty locks designed for side-load resistance in hydraulic or mechanical applications. Plunger can withstand 1500 pounds of side load in the de-energized position.



Features:

- Single coil construction for simple electrical interface
- Hardened, stainless steel pin resists high shear load and increases fatigue resistance
- Nickel plated plunger ensures smooth, reliable operation, as well as corrosion and wear resistance
- Protective brass liner plunger bore provides longer operating life
- Rugged construction allows for operation under the most severe temperature and vibration conditions
- Easy installation—no brackets or linkages necessary

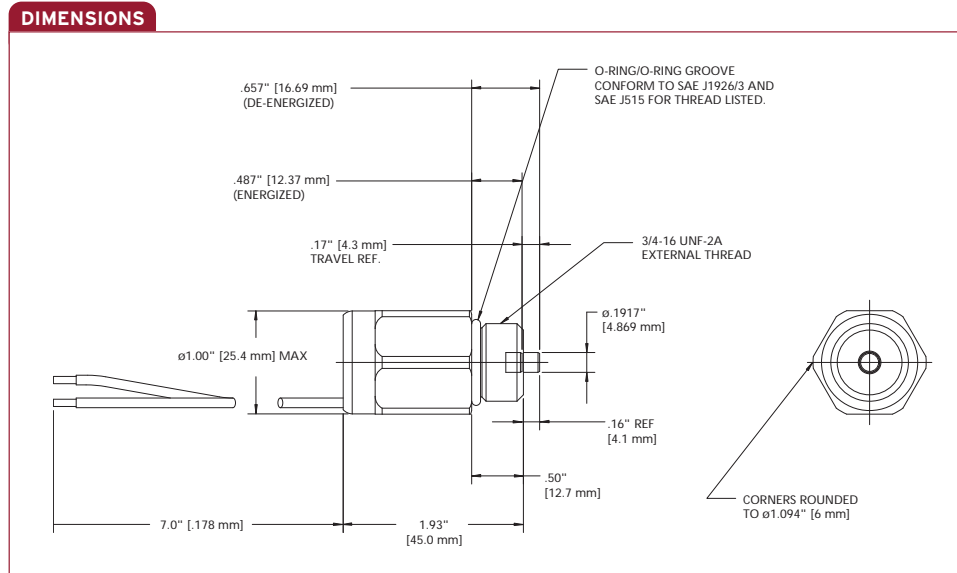
Order Information:

ORDER NO.	Model
SA-4971	Continuous
SA-4972	PWM

E.E.C. Directive Compliance: All parts supplied by Woodward Products are classified as components, and therefore are not "CE" marked. Please contact factory direct for details on specific product compliance with 89/336/EEC and 89/392/EEC directives.

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Single Coil Solenoids



Specifications:

	SA-4971	SA-4972
Rated Voltage	12 VDC	12 VDC
Rated Temperature	68 °F (20 °C)	68 °F (20 °C)
Temperature Range	-40 °F to + 185 °F (-40 °C to +85 °C)	-40 °F to + 235 °F (-40 °C to +113 °C)
Rated Stroke	0.17" (4.32 mm)	0.17" (4.32 mm)
Pull Current	100% duty @ 0.7 A	2 A max for 0.2 sec
Hold Current	100% duty @ 0.7 A	PWM 1.0 A average
Duty Cycle	100% @ 15.5 VDC max and 185 °F (85 °C)	15% @ 16 VDC
Pull Force	Solenoid must pull in plunger against return spring at 9.5 VDC and 320 °F (160 °C) coil temperature, with no side load on plunger pin	Solenoid must pull in plunger against return spring at 9.5 VDC and 235 °F (113 °C) within 200 msec, with no side load on plunger pin
Hold Force	Solenoid must hold in plunger against return spring at 9.5 VDC and 320 °F (160 °C) coil temperature	Solenoid must hold in plunger against return spring at 16 VDC, 15% duty cycle, 1000 Hz PWM signal, and 235 °F (113 °C)
Pull Coil Resistance	17.8 ohms ± 10%	5.55 ohms ± 5%

Specifications are for reference only.

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