

# 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:**

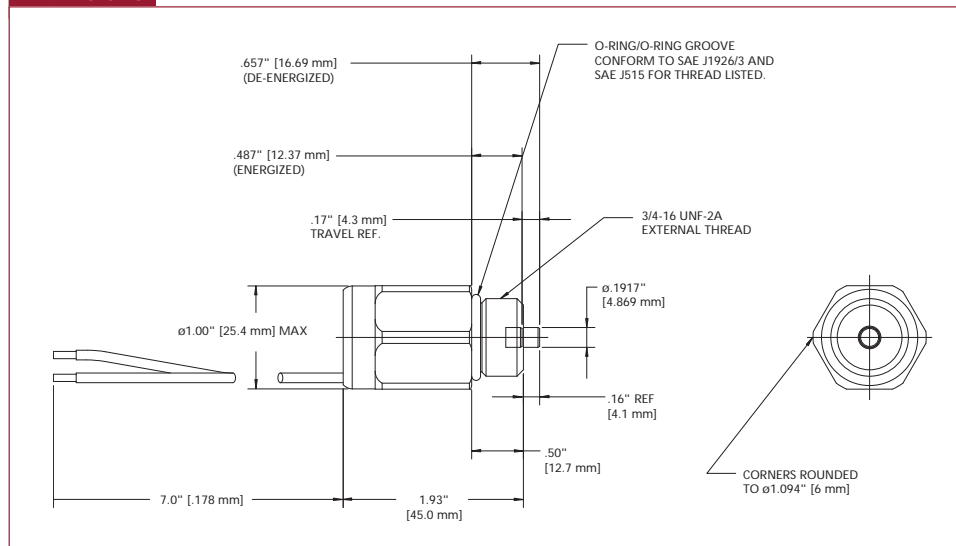
ORDER NO.	Model
SA-4971	Continuous
SA-4972	PWM

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.

# 1000S Series Locking Solenoid

Single Coil Solenoids

## DIMENSIONS



## 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 tem- perature, 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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