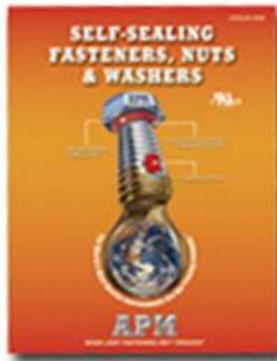




Edition 255, April 2015 | [Self-Sealing Fasteners](#) | [Sealing Boots Division](#)



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## DID YOU KNOW?

### SPECK OF DUST COULD MEAN THE DIFFERENCE BETWEEN LIFE AND DEATH



Whether operating on the ground, in high altitudes, or in high-pressure submersible conditions - night vision goggles not only have to be reliably sealed, they need to be field-maintenance

friendly for the military. That's why leading night vision equipment manufacturers have selected APM's high-pressure self-sealing [SEELSKREWS®](#) to do the job.

The military/APM partnership began during World War II. The U.S. military was made painfully aware of control reliability problems with environmental conditions, and shortly thereafter, APM Hexseal joined with the Department of Defense to develop a series of seals, based on a newly created specification (MIL-DTL-5423), that addressed such issues. Other complimentary sealing products were also developed and patented including a line of self-sealing fasteners. APM's self-sealing fasteners are rated to IP66/ 68 dust and water ingress

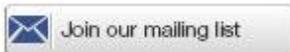


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[info@apmhexseal.com](mailto:info@apmhexseal.com)



protection. For more than 60 years, these seals have been extensively used in military, naval, land and avionics applications throughout the world.

APM's stainless steel seelskrews® feature an embedded silicone O-Ring, captured under the head in an asymmetrical groove, capable of sealing to 20,000psi internal/external against dust, dirt and moisture. They are a UL Recognized component, DFARS and RoHS compliant. Perfect for the volatile work environment that the military so often endures. For maintenance purposes, they can be frequently re-installed without degradation to the O-Ring. APM self-sealing fasteners are an ideal sealing solution as they can easily handle temperatures to +500°F (+260°C).

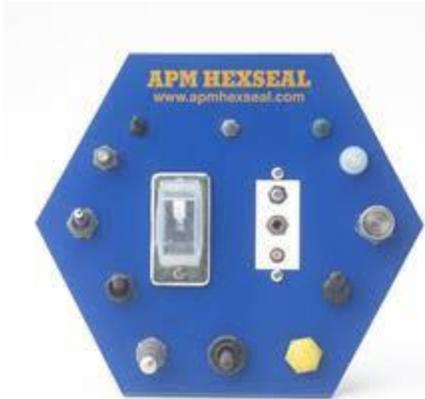


[Read more about Controlling Hostile Environments.](#)

## ASK APM

"HOW DO I DETERMINE THE BEST APM HEXSEAL SEALING BOOT FOR MY JOB AND CONDITION?"

**RoHS**  
Compliant  
DFARS 252.225-7014  
Compliant Hardware Available



A wide choice of sealing boots are offered for switches and circuit breakers. A simple way to match and select the right boot is to visit [APMHexseal.com](http://APMHexseal.com), review the catalogs and dimensional drawings. Preview the material characteristics chart

(below) to determine the best material for the job. Feel free to give us a call (800)498-9034 for guidance.

Material	Referent Specifications	Service Temp	RESISTANT TO				TYPICAL PROPERTIES			
			Ozone	Chemicals	Oil	Solvents	Tensile PSI	Elongation %	Abrasion Resistance	Compression Set
Silicone Rubber	A-A-59588 CLASS I&II GR 30-70	-94°F to 400°F -70°C to 204°C	Excellent	Good	Good	Fair	500-1800	100-800	Fair	Excellent
Silicone Rubber	ASTM D1418 GR 30-70	-80°F to 400°F -62°C to 204°C	Excellent	Good	Good	Fair	500-1800	100-800	Fair	Excellent
Fluoro-Silicone Rubber	MIL-R-25988 AMS 3326 GR 80	-78°F to 150°F -61°C to 66°C	Excellent	Excellent	Excellent	Excellent	2000-2200	300-400	Good	Excellent
Buna N (NBR)	ASTM D2000-90 M2B6714 GR 60	-65°F to 250°F -54°C to 121°C	Fair	Good	Excellent	Good	1500-3000	400-600	Good	Excellent
Neoprene (EPR)	MIL-R-3065 GR 60	-65°F to 300°F -54°C to 149°C	Good	Good	Good	Fair	1500-4000	100-700	Excellent	Good
Ethylene Propylene (EPDM)	ASTM D2000-90 M3BA708 GR 60	-65°F to 300°F -54°C to 149°C	Excellent	Excellent	Poor	Good	1400-1600	500-600	Excellent	Excellent

**Look for next week's newsletter to learn more about APM Hexseal's sealing solutions!**

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