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APM HEXSEAL®

The world's most hostile environments are our proving grounds®



ISO9001:2000 COMPLIANT

SEALING BOOTS

SELF-SEALING FASTENERS

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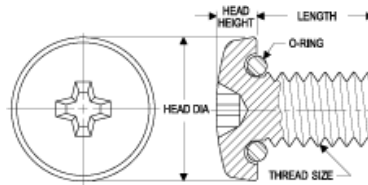
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Product Details

Self-Sealing Fasteners & Nuts :: Screws

Type R Phillips Recessed

Availability: In-Stock



UL US
 UL Recognized | File: E153680
 File: E210026
UL THIRD-PARTY TESTED

RoHS
 Compliant
DFARS 252.225-7014
 Compliant Hardware Available

FAST DELIVERY SERVICE
 Orders shipped within 48 hours (weekdays). Most types and sizes are available for fast delivery in quantities up to 500 pieces.
 Larger orders scheduled w/minimum lead times.

Thread Size	Head Drive Size	Lengths *	Recom. Clear. Hole‡			
			C Max.	D Max.	Min.	Max.
2-56UNC-2A	#1	1/4" to 1" incl.	.181"	.062"	.091"	.095"
4-40UNC-2A	#1	1/4" to 1" incl.	.238"	.080"	.125"	.129"
6-32UNC-2A	#2	1/4" to 1" incl.	.294"	.097"	.147"	.152"
8-32UNC-2A	#2	1/4" to 1" incl.	.347"	.115"	.173"	.179"
10-32UNF-2A	#2	3/8" to 1" incl.	.403"	.133"	.199"	.204"
10-24UNC-2A	#2	3/8" to 1" incl.	.403"	.133"	.199"	.204"
1/4-20UNC-2A	#3	3/8" to 1 1/4" incl.	.517"	.175"	.265"	.269"
1/4-28UNF-2A	#3	3/8" to 1 1/4" incl.	.517"	.175"	.265"	.269"

*In increments of 1/16" up to 5/8" long; from 5/8" long and up, in increments of 1/8"

‡Recommended Clearance Hole (To ensure maximum sealing performance of SEELSKREWS® a clearance hole must be used.)

Consult factory for additional sizes

APM SEELSKREW®

Reusable, High-Pressure, Self-Sealing Screws

SEELSKREWS® are designed to seal out air, water, lubricants and other liquid or gaseous contaminants. SEELSKREWS® are available in many standard thread sizes and with optional sealing materials. They can also be supplied with either self-locking pellets, strips or patch, a black oxide, painted heads, or in a captivated (KAPTO-SKREW®) configuration. Sheet metal and other type fasteners available on special order.

**SEELSKREW®, SEELBOLT® & SEELNUT® SPECIFICATIONS****Material:**

SEELSKREWS® and SEELBOLTS® — Non-magnetic stainless steel (passivated). SEELNUTS materials available on request. Silicone rubber per A-A-59588 (ZZ-R-765, Class I & II, Grade 70). Other seal materials available. Note: Type SB SEELBOLTS requirements of MIL-B-6812, material is stainless steel (magnetic).

Threads:

SEELSKREWS Class 3 (tight tolerance) threads are available on special order.

Temperature Range:

-160°F to +500°F (-106°C to +260°C).

Pressure Range:

Up to 20,000 psig (137,895kPa)/vacuum, internal and external, subject to clearance hole dimensions. Check factory for test data.

Shelf Life:

Excess of 25 years.

Resistant to:

Salt water, weather, dirt, dust, sunlight, ozone and most acids. [See O-Ring Chart](#)

Agency Listings:

UL and CSA.

Installation:

Install in same manner as standard fasteners. Standard break-edge practices for deburring (i.e. break-sharp edges of 0.005" maximum) are permissible. Recommended clearance hole depth is 2 to 3 times thread pitch. See detail below.

Minimum Thread Length:

SEELSKREWS®: For machine screws up to 11.4" long, the complete thread should extend to within two threads (or closer) of the bearing surface of the head.

SEELBOLTS®: For bolts up to 11.4" long, the minimum thread length should be twice the diameter plus 1/4" (with a tolerance of plus 21.2 threads or 3/16", whichever is greater). For bolts too short for this minimum, the distance from the bearing surface of the head to the first complete thread shall not exceed the length of 21.2 threads as measured with a ring thread gauge.

[→ Login to Access Dimensional Drawings & CAD files](#)

Enhancements Available:

- Pellets
- Strips
- Patches
- High Temperature Patches
- Custom

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About APM's Sealing Boots Division:

The Electronics Division of APM HEXSEAL develops and manufactures environmental protection sealing components for controls that are mounted on

switches, potentiometers, encoders, and circuit breakers. Using advanced elastomer molding technology, a broad range of sealing boots are produced to match most controls manufactures' standard part numbers. Most are IP66/68 ingress protection rated and UL recognized.

About APM's Self-Sealing Fastener Division:

The APM line of high-pressure, reusable, self-sealing fasteners includes self-sealing screws, self-sealing locking nuts, self-sealing locking bolts, self-sealing rivets, and self-sealing washers all designed to seal in/out air, water, lubricants and other liquid or gaseous contaminants.

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