Pushbutton Boot with Hex-Shaped Insert

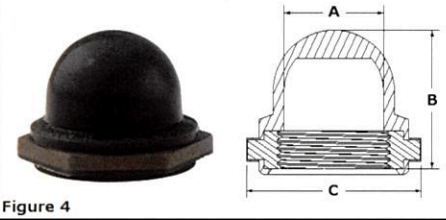


Figure 4

Pushbutton Boot with Round Insert (Aluminum)

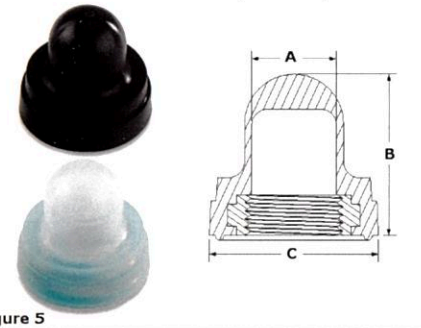


Figure 5

Rotary Boot

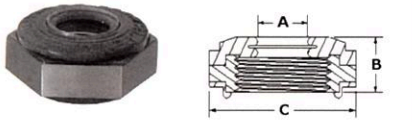


Figure 6

## Pushbutton Boots with Hex-shaped Insert

See Figure 4

| APM Hexseal Part # | Military Part # | Thread Size | Maximum Plunger Height (Above Bushing) | | DIMENSIONS | | | | | | System of Measurement |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Internal Diameter (A) | | Height (B) | | Hex Size/Outer Diameter (C) | | |
| | | | in | mm | in | mm | in | mm | in | mm | |
| 1231/8 | - | 3/8-27 UNS-2B | 0.397 | 10.08 | 0.300 | 7.62 | 0.653 | 16.59 | 0.500 | 12.70 | Imperial |
| 1231/35 | - | 3/8-32 UNEF-2B | 0.418 | 10.62 | 0.300 | 7.62 | 0.670 | 17.20 | 0.500 | 12.70 | Imperial |
| 1231/51 | - | 3/8-27 UNS-2B | 0.665 | 16.88 | 0.313 | 7.95 | 0.875 | 22.23 | 0.500 | 12.70 | Imperial |
| 1238/1 SS ▲ | - | 15/32-32 UNS-2B | 0.306 | 7.77 | 0.422 | 10.72 | 1.008 | 25.60 | 0.750 | 19.05 | Imperial |
| N3030 | M5423/07-01 | 15/32-32 UNS-2B | 0.281 | 7.14 | 0.422 | 10.72 | 0.547 | 13.89 | 0.625 | 15.88 | Imperial |
| N3030 RFI ★ | M5423/07-06 | 15/32-32 UNS-2B | 0.281 | 7.14 | 0.422 | 10.72 | 0.547 | 13.89 | 0.625 | 15.88 | Imperial |
| N3040 | M5423/07-04 | 5/8-24 UNEF-2B | 0.281 | 7.14 | 0.515 | 13.08 | 0.609 | 15.47 | 0.750 | 19.05 | Imperial |
| N5040 | M5423/10-03 | 1/4-40 UNS-2B | 0.141 | 3.58 | 0.188 | 4.78 | 0.313 | 7.95 | 0.375 | 9.53 | Imperial |
| N5040G | M5423/10-01 | 1/4-32 UNEF-2B | 0.203 | 5.16 | 0.188 | 4.78 | 0.313 | 7.95 | 0.375 | 9.53 | Imperial |
| N5040R | M5423/10-02 | 1/4-40 UNS-2B | 0.203 | 5.16 | 0.188 | 4.78 | 0.313 | 7.95 | 0.375 | 9.53 | Imperial |
| N5045 | - | 8-40 UNS-2B | 0.188 | 4.78 | 0.120 | 3.05 | 0.297 | 7.54 | 0.250 | 6.35 | Imperial |
| NC3030 | M5423/07-02 | 15/32-32 UNS-2B | 0.438 | 11.13 | 0.422 | 10.72 | 0.719 | 18.26 | 0.625 | 15.88 | Imperial |
| NC3030 7/16-28 | - | 7/16-28 UNEF-2B | 0.438 | 11.13 | 0.422 | 10.72 | 0.719 | 18.26 | 0.625 | 15.88 | Imperial |
| NH3030 | M5423/07-03 | 1/2-32 UN-2B | 0.281 | 7.14 | 0.422 | 10.72 | 0.547 | 13.89 | 0.625 | 15.88 | Imperial |
| NC3030FL • | - | 15/32-32 UNS-2B | 0.520 | 13.21 | 0.344 | 8.74 | 0.797 | 20.24 | 0.625 | 15.88 | Imperial |
| NC3030H M12x1 | - | M12 x 1 6H | 0.469 | 11.90 | 0.422 | 10.72 | 0.734 | 18.64 | 0.625 | 15.88 | Metric |

▲ Armored Pushbutton Boot (not shown). Contact us for images and information.
★ Pushbutton Boot with EMI/RFI Shielding (not shown). Contact us for images and information.
• Flat Top Pushbutton Boot (not shown). Contact us for images and information.

## Pushbutton Boots with Round Insert (Aluminum)

See Figure 5

| APM Hexseal Part # | Military Part # | Thread Size | Maximum Plunger Height (Above Bushing) | | DIMENSIONS | | | | | | System of Measurement |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Internal Diameter (A) | | Height (B) | | Hex Size/Outer Diameter (C) | | |
| | | | in | mm | in | mm | in | mm | in | mm | |
| C1221/22 | - | 3/8-24 UNF-2B | 0.330 | 8.40 | 0.320 | 8.13 | 0.609 | 15.47 | 0.640 | 16.26 | Imperial |
| C1221/24 ◊ | - | 3/8-27 UNS-2B | 0.419 | 10.64 | 0.300 | 7.62 | 0.609 | 15.47 | 0.640 | 16.26 | Imperial |
| C1221/25 | - | 3/8-27 UNS-2B | 0.419 | 10.64 | 0.300 | 7.62 | 0.609 | 15.47 | 0.640 | 16.26 | Imperial |
| C1221/21 M10 | - | M10 x 1 6H | 0.330 | 8.40 | 0.320 | 8.13 | 0.609 | 15.47 | 0.640 | 16.26 | Metric |
| C1221/27 | - | M11 x 1 6H | 0.267 | 6.78 | 0.320 | 8.13 | 0.609 | 15.47 | 0.720 | 18.29 | Metric |

◊ Boot is made from APM Hexseal's clear RUBRGLAS®.

## Rotary Boots

See Figure 6

| APM Hexseal Part # | Military Part # | Thread Size | DIMENSIONS | | | | | | System of Measurement |
|---|---|---|---|---|---|---|---|---|---|
| | | | Shaft Size (A) | | Height (B) | | Hex Size (C) | | |
| | | | in | mm | in | mm | in | mm | |
| N9030x1/4 | M5423/09-02 | 3/8-32 UNEF-2B | 0.250 | 6.35 | 0.219 | 5.56 | 0.500 | 12.70 | Imperial |
| N9040x1/8 | M5423/09-03 | 1/4-32 UNEF-2B | 0.125 | 3.18 | 0.219 | 5.56 | 0.375 | 9.53 | Imperial |
| N9042x1/8 | - | 1/4-28 UNF-2B | 0.125 | 3.18 | 0.219 | 5.56 | 0.375 | 9.53 | Imperial |
| N9060x1/4 | M5423/09-04 | 15/32-32 UNS-2B | 0.250 | 6.35 | 0.219 | 5.56 | 0.625 | 15.88 | Imperial |
| 1332/39 | - | M7x.75 6H | 0.196 | 5.00 | 0.200 | 5.50 | 0.500 | 12.70 | Metric |
| 1332/45 | - | M10x1 6H | 0.236 | 6.00 | 0.236 | 5.90 | 0.500 | 12.70 | Metric |
| 1332/46 | - | M10x.75 6H | 0.236 | 6.00 | 0.236 | 5.90 | 0.500 | 12.70 | Metric |
| C1332/41 | - | M9x.75 6H | 0.250 | 6.35 | 0.219 | 5.56 | 0.500 | 12.70 | Metric |

# APM Hexseal Bushing Seals For Switch Panel Cut-Outs

Bushing Seals pack all the sealing power of a boot, but focus on the mounting hole as opposed to the switch itself. Installed before a switch locking nut, the bushing seal fits snugly against the mounting panel, sealing the mounting hole from any possible intrusion. Bushing Seals are small, inconspicuous and perfect for already sealed toggle, push button and rotary switches.

**MATERIAL SPECIFICATIONS**
For APM Hexseal® Standard Bushing Seals

**Elastomer:** Silicone conforms to A-A-59588, Class 3A, GR50 †, Gray ‡
**Mounting Nut:** 18/8 Stainless Steel
**Temperature Range:** -103° F to +400° F ( -75° C to +204° C)
**Resistant to:** Splash, salt spray, sunlight, ozone, weather, fungus, dust, and most acids and lubricating oils.
**Shelf Life:** Excess of 25 years.
**Enclosure Protection:** IEC IP66 / IP68 •

† Durometer options available. Please contact us for details.
‡ Additional colors available. Please contact us for details.
• A dual IP code rating indicates that both ratings apply.

APM Hexseal's UL and ULC Recognized Components conform to UL Standard 50.
Contact us for a complete list of our Recognized Components and ratings.

Bushing Seals

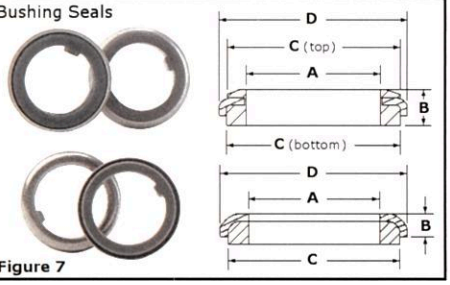


Figure 7

## Bushing Seals

See Figure 7

| APM Hexseal Part # | Military Part # | DIMENSIONS | | | | | | | | Seal Style |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Bushing Size (A) | | Height (B) | | Seal Diameter (C) | | Outer Diameter (D) | | |
| | | in | mm | in | mm | in | mm | in | mm | |
| 60064 | M5423/17-01 | 0.469 | 11.91 | 0.120 | 3.03 | Top: 0.610 Bottom: 0.610 | Top: 15.49 Bottom: 15.49 | 0.662 | 16.81 | Double-Side Seal |
| 60065 | - | 0.375 | 9.53 | 0.120 | 3.03 | Top: 0.500 Bottom: 0.522 | Top: 12.70 Bottom: 13.26 | 0.572 | 14.53 | Double-Side Seal |
| 60225 | M5423/16-01 | 0.469 | 11.91 | 0.120 | 3.03 | 0.610 | 15.49 | 0.662 | 16.81 | Single-Side Seal |

This catalog is a **partial** representation of APM Hexseal's many product lines.
Please contact us directly for additional parts and alternative size options.



(800) 498-9034
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