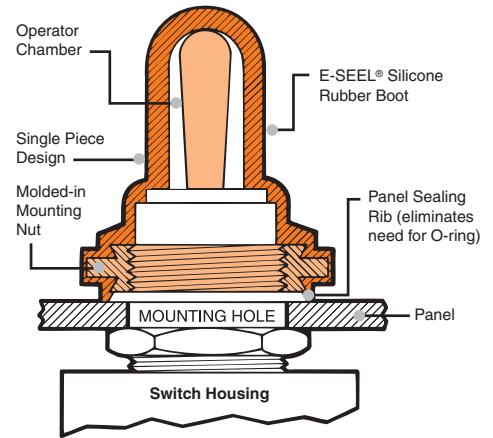


METRIC Sizes for Toggle, Pushbutton and Rotary Switches and Circuit Breakers

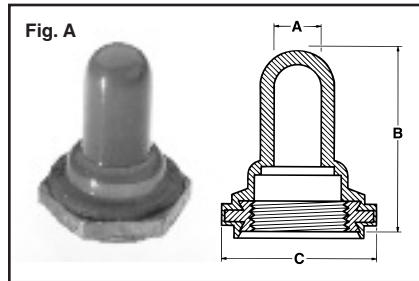
SPECIFICATIONS

Material.....Silicone rubber polymer type ASTM D 1418 or A-A-59588
Mounting Nut.....Brass, black-oxide. *Brass, nickel-plated.
Temperature Range....-80°F to +400°F (-62°C to +204°C)
Enclosure Protection..NEMA/UL/ULC Types 1, 2, 3, 3S, 3R, 4, 4X, 6P, 12, 13; IEC IP66/IP68
Pressure Range.....Exceeds 15 psi internal and 1500 psi external
Operational Life.....100,000 actuations (minimum)
Shelf Life.....Excess of 25 years
Resistant to.....Salt spray, sunlight, ozone, weather, fungus, and most acids and lubricating oils
Agency Recognition...UL & ULC Recognized Component to UL Std. 50
Installation.....Please see installation instructions on page 19



Additional metric sizes available (consult factory)

TOGGLE SWITCH BOOTS



IP66/IP68/NEMA 6P Enclosure Protection

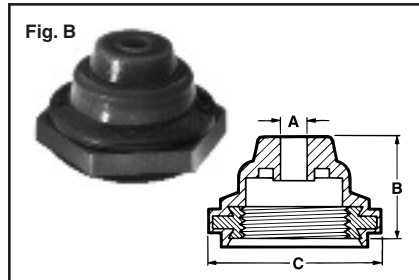
Full Toggle (with Constant I.D.) Switch Boots (covers all external portions of switch & seals switch mounting hole)

Figure A

| Thread Size | Throat Size ¹ ("A") | | Max Toggle Height ² | | Max Boot Height ("B") | | Flat ("C") | | Color | APM Cat. No. |
|-------------|--------------------------------|-------|--------------------------------|------|-----------------------|-------|------------|-------|-------|-----------------|
| | mm | in. | mm | in. | mm | in. | mm | in. | | |
| M6 X 0.75 | 2.9 | 0.116 | 10.8 | 0.43 | 14.3 | 0.562 | 9.0 | 0.352 | Black | 1131/25* |
| M12 X 0.75 | 5.3 | 0.21 | 16.2 | 0.64 | 21.6 | 0.85 | 15.8 | 0.625 | Black | C1131/41 |
| M12 X 0.75 | 5.5 | 0.219 | 22.8 | 0.90 | 27.7 | 1.1 | 15.8 | 0.625 | Black | 1131/26-M12-.75 |
| M12 X 1 | 6.5 | 0.256 | 16.7 | 0.66 | 21.4 | 0.844 | 15.8 | 0.625 | Black | 1131/31-M12 |
| M12 X 1 | 5.9 | 0.234 | 16.9 | 0.66 | 21.8 | 0.859 | 15.8 | 0.625 | Black | 1131/40 |
| M12 X 1 | 5.5 | 0.219 | 22.8 | 0.90 | 27.7 | 1.1 | 15.8 | 0.625 | Black | 1131/26-M12-.10 |

¹ Throat size is the maximum diameter of the switch toggle/handle (Dimension "A").

² Max toggle height is the maximum distance from the end of the switch mounting stem to the end of the switch toggle.



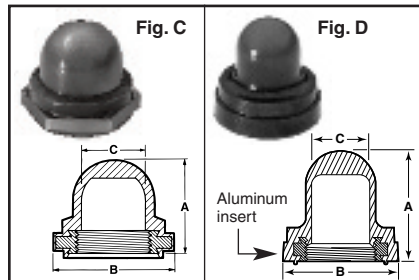
IP66/IP68/NEMA 6P Enclosure Protection

Half Toggle Switch Boots (Seals switch mounting stem & hole; toggle actuator protrudes)

Figure B

| Thread Size | Throat Size ("A") | | Toggle Diameter Accomodated | | Max Boot Height ("B") | | Flat ("C") | | Color | APM Cat. No. |
|-------------|-------------------|-------|-----------------------------|------------|-----------------------|------------|------------|-------|-------|---------------|
| | mm | in. | mm | in. | mm | in. | mm | in. | | |
| M5 X 0.5 | 1.1 | 0.42 | 1.57-4.57 | 0.062-0.18 | 5.7 | 0.225/0.25 | 7.9 | 0.313 | Black | 1132/17-M5-5 |
| M12 X 1 | 2.36 | 0.093 | 2.92-6.09 | 0.115-0.24 | 11.1 | 0.437 | 15.9 | 0.625 | Black | 1132/33-M12-1 |

PUSHBUTTON SWITCHES & CIRCUIT BREAKERS/PROTECTORS



IP66/IP68/NEMA 6P Enclosure Protection

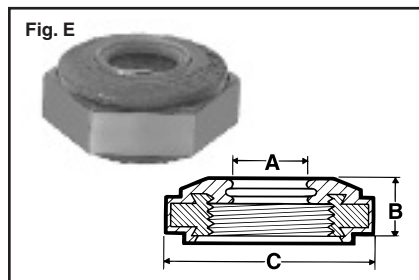
Pushbutton Boots (Seals switch mounting stem & hole; toggle actuator protrudes)

Figures C & D

| Thread Size ¹ | Max Boot Height ("A") | | Max Plunger Height | | Dimension "B" | | Max Plunger Diameter ("C") | | Color ¹ | APM Cat. No. | Fig. |
|--------------------------|-----------------------|-------|--------------------|-------|---------------|-------|----------------------------|-------|--------------------|---------------|------|
| | mm | in. | mm | in. | mm | in. | mm | in. | | | |
| M10 X 1 | 15.47 | 0.62 | 8.4 | 0.33 | 16.3 | 0.64 | 8.1 | 0.32 | Black | C1221/21-M10 | D |
| M11 X 1 | 15.47 | 0.62 | 6.8 | 2.67 | 18.3 | 0.72 | 8.1 | 0.32 | Clear | C1221/27 | D |
| M12 X 1 | 18.64 | 0.733 | 11.9 | 0.469 | 15.9 | 0.625 | 10.72 | 0.422 | Black | NC3030H-M12-1 | C |
| M12 X 1 | 13.89 | 0.547 | 7.14 | 0.281 | 15.88 | 0.625 | 10.72 | 0.422 | Black | N3030 M12x1 | C |
| M12 X .75 | 13.89 | 0.547 | 7.14 | 0.281 | 15.88 | 0.625 | 10.72 | 0.422 | Black | N3030 M12x.75 | C |

¹ "Clear" allows viewing of breaker amp rating and trip state; please enquire for other available colors.

ROTARY SHAFT SEALS



IP66/IP68/NEMA 6P Enclosure Protection

Seal the shaft and mounting hole of standard rotary switches/potentiometers that use a threaded stem and nut mounting.

Figure E

| Thread Size | Shaft Size ¹ ("A") | | Height ("B") | | Flat ("C") | | Color ² | APM Cat. No. |
|-------------|-------------------------------|-------|--------------|-------|------------|-------|--------------------|--------------|
| | mm | in. | mm | in. | mm | in. | | |
| M7 X 0.75 | 5.0 | 0.2 | 5.5 | 0.2 | 12.7 | 0.500 | Gray | 1332/39-2* |
| M9 X 0.75 | 6.35 | 0.250 | 5.56 | 0.219 | 12.7 | 0.500 | Gray | C1332/41* |
| M10 X 1 | 6.0 | 0.236 | 5.9 | 0.236 | 12.7 | 0.500 | Gray | 1332/45* |

¹ Switch/potentiometer shaft must have a smooth, round cross-section where it meets the sealing edge of the shaft seal device.

² Please enquire for other available colors.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Switch Fixings](#) category:

Click to view products by [APM manufacturer](#):

Other Similar products are found below :

[893102000](#) [00-5150](#) [LZZ1A](#) [0098.9234](#) [630155](#) [635401](#) [6PA113](#) [6PA32](#) [700106](#) [700109](#) [700303A56](#) [704-6001](#) [704.960.9](#) [704.965.2](#)
[704.966.0](#) [710082-B11](#) [71M1048](#) [757200264](#) [79215938](#) [MHU35](#) [MHU37](#) [807039-1](#) [825.003.011](#) [825.005.011](#) [835.900.023](#) [MML52C10C](#)
[MML92HGH](#) [MML93K](#) [84211M02CNNS](#) [843187-000](#) [843487-000](#) [84-901](#) [84-9420](#) [8PA15-EX](#) [9002EN16](#) [9006EN16](#) [9006EN28B](#) [92-](#)
[971.0](#) [933PA1](#) [PN415](#) [GOUPILLE15X3G06](#) [98-925.9](#) [11-906](#) [9PA35](#) [9PA44](#) [A3DJ-7112](#) [HDS-08-T-B](#) [HDW23FLATLOCKINGRING](#)
[HK-1](#) [12PA12-W](#)