

## Specifications

- **Certifications\*:** UL, CSA, and VDE
- **Dielectric Strength:** 1,000 V (minimum)
- **Insulation Resistance:** 100 Megohms (minimum)
- **Base Material:** Phenolic
- **Actuator Material:** Nylon
- **Bracket/Bezel Material:** Nylon or Steel

\* Due to ongoing technological advances, consult factory for certification specifics.

Technical drawings of three types of ball valves: TIL, TIG, and TIH. Each drawing includes a side view and a top view with dimensions in inches and millimeters.

**TIL**

- Side View Dimensions:
  - Overall Height: 1.034 [26.26]
  - Bottom Flange Thickness: .345 [8.76]
  - Overall Width: .601 [15.26]
  - Distance from Bottom Flange to Center of Ball: 1.350 [34.29]
- Top View Dimensions:
  - Overall Width: 1.348 [34.24]
  - Distance from Center to Side Port: .762 [19.35]
  - Distance from Center to Bottom Port: .422 [10.72]
  - Overall Depth: .750 [19.05]

**TIG**

- Side View Dimensions:
  - Overall Height: 1.306 [33.17]
  - Bottom Flange Thickness: .305 [7.75]
  - Overall Width: 1.088 [27.63]
  - Distance from Bottom Flange to Center of Ball: .760 [19.30]
- Top View Dimensions:
  - Overall Width: 1.348 [34.24]
  - Distance from Center to Side Port: .762 [19.35]
  - Distance from Center to Bottom Port: .422 [10.72]
  - Overall Depth: .750 [19.05]

**TIH**

- Side View Dimensions:
  - Overall Height: 1.306 [33.17]
  - Bottom Flange Thickness: .305 [7.75]
  - Overall Width: 1.088 [27.63]
  - Distance from Bottom Flange to Center of Ball: .760 [19.30]
- Top View Dimensions:
  - Overall Width: 1.348 [34.24]
  - Distance from Center to Side Port: .762 [19.35]
  - Distance from Center to Bottom Port: .422 [10.72]
  - Overall Depth: .750 [19.05]

| TIG    |             | K                             | 5 | 1                   | - | 6S | -                            | BL                           | -                           | NBL                          |               |        |
|--------|-------------|-------------------------------|---|---------------------|---|----|------------------------------|------------------------------|-----------------------------|------------------------------|---------------|--------|
| SERIES |             | CIRCUIT                       |   | RATING <sup>1</sup> |   |    | ACTUATOR STYLE <sup>2</sup>  |                              | ACTUATOR COLOR <sup>3</sup> |                              |               |        |
| TIL    | SINGLE POLE | SINGLE POLE                   |   | 5                   |   |    | 10A 250VAC                   | 1C                           | CROSS SERRATED              | BL                           | BLACK         |        |
| TIG    | DOUBLE POLE | A ON-NONE-OFF                 |   | 15A 125VAC          |   |    | 1F                           | SMOOTH W/<br>FLATTED CENTER  | WH                          |                              | WHITE         |        |
| TIH    | THREE POLE  | B ON-NONE-ON                  |   | 3/4HP 125-250VAC    |   |    | 1L                           | LONG LINED                   | BRACKET STYLE <sup>4</sup>  |                              |               |        |
| TII    | FOUR POLE   | C ON-OFF-ON                   |   | 6                   |   |    | 3A 250VAC                    | 1S                           |                             |                              | SMOOTH ANGLED |        |
|        |             | DOUBLE, THREE OR<br>FOUR POLE |   | 6A 125VAC           |   |    | 1S                           | SMOOTH ANGLED                |                             |                              |               |        |
|        |             | K ON-NONE-OFF                 |   | 9                   |   |    | 10A 250VAC                   | 2L                           | LONG NARROW                 | A                            |               |        |
|        |             | L ON-NONE-ON                  |   | 15A 125VAC          |   |    | 6M <sup>5</sup>              | SMOOTH                       |                             |                              | B             |        |
|        |             | M ON-OFF-ON                   |   | 12(6)A 250VAC T85   |   |    | (M, N OR W<br>BRACKETS ONLY) | 6M <sup>5</sup>              | MATTE CURVED                | C                            |               |        |
|        |             |                               |   | 72                  |   |    | 20A 125-277VAC               | (M, N OR W<br>BRACKETS ONLY) | 6S                          | SMOOTH CURVED                | H             |        |
|        |             |                               |   | 1 1/2HP 125VAC      |   |    | 1 1/2HP 125VAC               | 6S                           | SMOOTH CURVED               | (M, N OR W<br>BRACKETS ONLY) | FN            | NARROW |
|        |             |                               |   | 2HP 250VAC          |   |    | 2HP 250VAC                   | 6S                           | SMOOTH CURVED               | (M, N OR W<br>BRACKETS ONLY) | FW            | WIDE   |
|        |             |                               |   |                     |   |    |                              | 7N                           | WITCHES HAT<br>(NARROW)     | MBL                          | MARINE        |        |
|        |             |                               |   |                     |   |    |                              | 7N                           | WITCHES HAT<br>(NARROW)     | NBL                          |               |        |
|        |             |                               |   |                     |   |    |                              | 7P                           | WITCHES HAT                 | WBL                          | WATERSHEDDING |        |
|        |             |                               |   |                     |   |    |                              | 7S                           | TOGGLE                      |                              |               |        |

NOTES:  
Shading indicates standard configurations.  
Dust covers for single and double pole are available, consult factory.  
Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.

1 Horsepower rating for code 5 is applicable to certain circuits only.  
Consult factory for specifics.  
Rating Code 9 for TIG-Series only with maintained A, B, K, L and M Circuits, and N Bracket Style, terminals 0 or 1 only.

| FUNCTION      | SOLDER LUG | .250 TAB (QC) | .187 TAB (QC) | SCREW TERM. | WIRE LEAD | PC TERM. |
|---------------|------------|---------------|---------------|-------------|-----------|----------|
| ON-NONE-OFF   | 0          | 1             | 3             | 4           | 5         | 6        |
| (ON)-NONE-OFF | A          | B             | D             | E           | F         | G        |
| ON-NONE-(OFF) | L          | M             | R             | S           | T         | U        |
| ON-NONE-ON    | 0          | 1             | 3             | 4           | 5         | 6        |
| ON-NONE-(ON)  | A          | B             | D             | E           | F         | G        |
| ON-OFF-ON     | 0          | 1             | 3             | 4           | 5         | 6        |
| ON-OFF-(ON)   | A          | B             | D             | E           | F         | G        |
| (ON)-OFF-(ON) | L          | M             | R             | S           | T         | U        |

NOTES:  
Shading indicates standard configurations.  
Dust covers for single and double pole are available, consult factory.  
Panel Cut-Out Recommendations: For sheet metal panels, switch must enter panel in same direction as the punch. (Burr on bottom.) Test cut hole in actual material.

1 Horsepower rating for code 5 is applicable to certain circuits only.  
Consult factory for specifics.  
Rating Code 9 for TIG-Series only with maintained A, B, K, L and M  
Circuits, and N Bracket Style, terminals 0 or 1 only.  
Rating Code 72 for TIG-Series only, in maintained circuits, with N or W  
Bracket Style only.

2 For double actuator with or without interlock or other actuator styles, consult factory.  
Imprinting available on smooth face rockers.

3 Glossy finish is standard. Custom colors are available. Consult factory.  
4 Barbs are available on FN style bracket to accommodate panel  
thicknesses of .062, .100, .125, .156 and .250. Specify after bracket  
selection. (ex.) FN/125

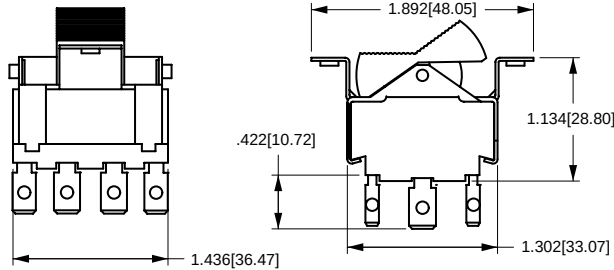
MBL, NBL & WBL brackets are molded in black. If white is desired, specify as MWH, NWH & WWH.

Bracket Style M consists of LNP rocker, neoprene seal, syntech dummy rivets. M, N and W brackets supplied in two pole bases. MBL does not have UL, CSA approvals.

5     Actuator & Bracket Finish is a matched set.

## Special Circuits for Tippette Rocker Switches

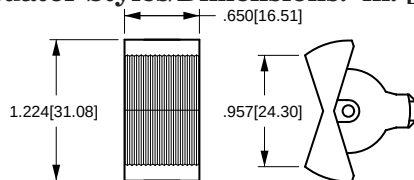
| CIRCUIT                            | POSITION 1         | POSITION 2       | POSITION 3   |
|------------------------------------|--------------------|------------------|--------------|
| PROGRESSIVE TWO CIRCUIT            |                    |                  |              |
| GG                                 | BOTH CIRCUITS ON   | ONE CIRCUIT ON   | OFF          |
| GG                                 | BOTH CIRCUITS (ON) | ONE CIRCUIT ON   | OFF          |
| SINGLE POLE TRIPLE THROW           |                    |                  |              |
| GE                                 | ON                 | ON               | ON           |
| TWO CIRCUIT                        |                    |                  |              |
| GH                                 | CIRCUIT 1 ON       | BOTH CIRCUITS ON | CIRCUIT 2 ON |
| GP                                 | CIRCUIT 2 ON       | CIRCUIT 1 ON     | OFF          |
| REVERSING DOUBLE POLE DOUBLE THROW |                    |                  |              |
| GO                                 | ON                 | OFF              | ON           |
| GX                                 | ON                 | NONE             | ON           |



TII

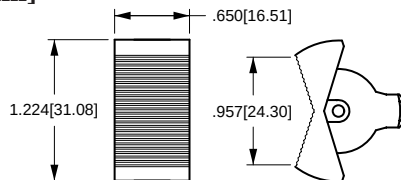
|                   |                 |                 |
|-------------------|-----------------|-----------------|
|                   |                 |                 |
| SOLDER LUG        | .250 TAB (Q.C.) | .187 TAB (Q.C.) |
| TERMINAL TYPE     |                 |                 |
|                   |                 |                 |
| SCREW (ASSEMBLED) | WIRE LEAD       | PRINTED CIRCUIT |

## Actuator Styles/Dimensions: in. [mm]



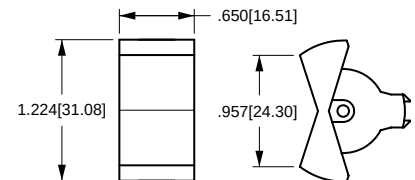
1L

TIL, TIG, TIH, TII



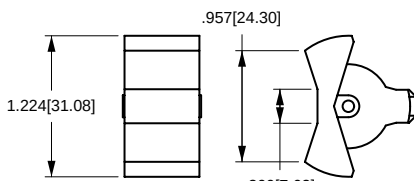
1C

TIL, TIG, TIH, TII



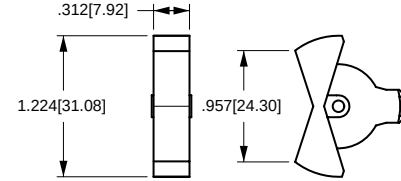
1S

TIL, TIG, TIH, TII



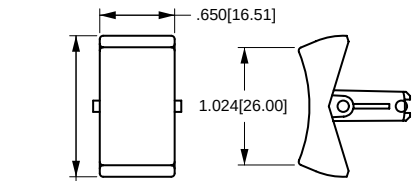
1F

TIG, TII



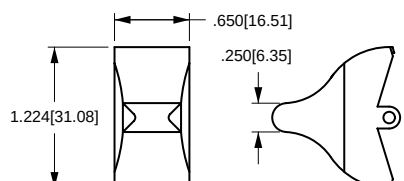
2L

TIL, TIG, TIH, TII



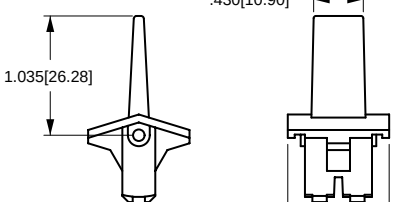
6S

TIG



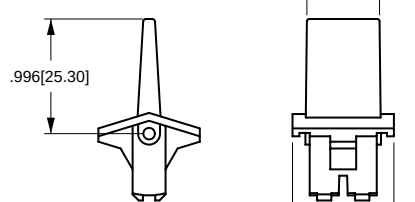
7S

TIG



7N

TIG

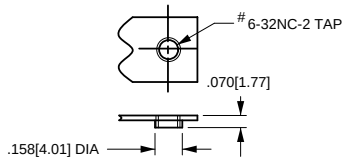


7P

TIG

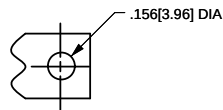
NOTES:  
Additional momentary circuits are available. Consult factory for details.

## Bracket Dimensions: in. [mm]



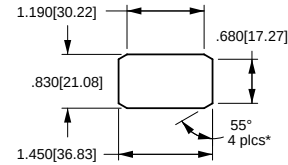
### TAPPED HOLE

Standard with  
A & B Brackets



### CLEARANCE HOLE

Standard with  
C Bracket

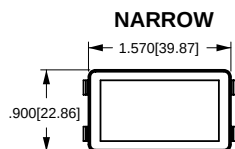


### MOUNTING HOLE

(Nylon Snap-in Brackets)

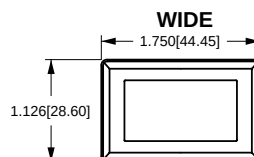
Panel Thickness:  
.030 min. - .250 max.  
\* Angled corners are suggested for  
optimum fit. Standard rectangular  
cutout is acceptable.

| TIL                      | TIG                          | TII                                                                                                   | TIH                     |
|--------------------------|------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------|
| <p><b>A</b><br/>TIL</p>  | <p><b>A</b><br/>TIG</p>      | <p><b>A</b><br/>TII</p>                                                                               | <p><b>A</b><br/>TIH</p> |
| <p><b>B</b><br/>TIL</p>  | <p><b>B</b><br/>TII, TIG</p> |                                                                                                       |                         |
| <p><b>C*</b><br/>TIL</p> | <p><b>C</b><br/>TIG</p>      | <p><b>C</b><br/>TIH, TII</p>                                                                          |                         |
|                          | <p><b>H</b><br/>TIG</p>      | <p><b>GCP / GMP</b><br/>GLOSS FINISH / MATTE FINISH<br/>HOLE PLUG<br/>FOR TIL, TIG, TIH &amp; TII</p> |                         |



### FN

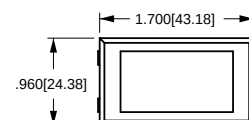
TIL, TIG, TIH, TII  
METAL, SNAP-IN



### FW

TIL, TIG, TIH, TII  
METAL, SNAP-IN

### MARINE / STD / WATERSHEDDING



### MBL, NBL, WBL

TIG  
BLACK NYLON, SNAP-IN

### NOTES

Double brackets supplied on TII-Series when B style bracket is specified. Consult factory for dimensional information.

\* Available in both clearance and tapped hole options. Please specify when ordering.