

**Conduit is used to protect and support electrical wires.**

**Both rigid conduit and intermediate metallic conduit are threaded and accept couplings, nuts, and bushings et cetera directly.**

**RIGID CONDUIT AND KNOCKOUT SIZES**

| ALL SIZES ARE INCHES |                  | INSIDE DIAMETER (ID) | OUTSIDE DIAMETER (OD) |             | KNOCKOUT SIZE |
|----------------------|------------------|----------------------|-----------------------|-------------|---------------|
| TRADE SIZE           | THREADS PER INCH | NOMINAL (1)          | NOMINAL               | MAXIMUM (2) | NOMINAL (3)   |
| 1/4                  | 18               | .364                 | .540                  | -           | .575          |
| 3/8                  | 18               | .493                 | .675                  | -           | .718          |
| 1/2                  | 14               | .632                 | .840                  | .855        | .875          |
| 3/4                  | 14               | .836                 | 1.050                 | 1.066       | 1.109         |
| 1                    | 11-1/2           | 1.063                | 1.315                 | 1.331       | 1.375         |
| 1-1/4                | 11-1/2           | 1.394                | 1.660                 | 1.676       | 1.734         |
| 1-1/2                | 11-1/2           | 1.624                | 1.900                 | 1.916       | 1.984         |
| 2                    | 11-1/2           | 2.083                | 2.375                 | 2.399       | 2.469         |
| 2-1/2                | 8                | 2.489                | 2.875                 | 2.904       | 2.969         |
| 3                    | 8                | 3.090                | 3.500                 | 3.535       | 3.594         |
| 3-1/2                | 8                | 3.570                | 4.000                 | 4.040       | 4.123         |
| 4                    | 8                | 4.050                | 4.500                 | 4.545       | 4.641         |
| 4-1/2                | 8                | 4.506                | 5.000                 | 5.050       | 5.109         |
| 5                    | 8                | 5.073                | 5.563                 | 5.619       | 5.719         |
| 6                    | 8                | 6.093                | 6.625                 | 6.691       | 6.813         |

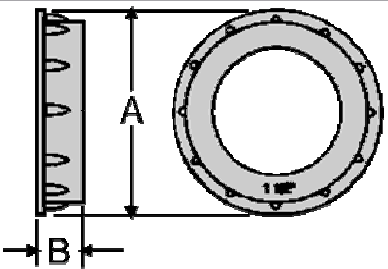
(1)U.L. Table NAE.3.


(2)Maximum Outside Diameter Per ANSI C80.1-1977.

(3)Dimensions for trade sizes of 1/4 through 1-1/4 are from Table 20.2 of ANSI/UL 514-1978.

Sizes 1/2 " thru 6" per proposed revision to NEMA Engineering Bulletin No. 71, Aug. 1976.

**PLASTIC CONDUIT BUSHING SIZES**

| ALL SIZES ARE INCHES  | TRADE SIZE | DIMENSION A | DIMENSION B |
|---|------------|-------------|-------------|
|  | 1/2        | 1.050       | .365        |
|   | 3/4        | 1.280       | .390        |
|   | 1          | 1.632       | .490        |
|   | 1-1/4      | 1.986       | .535        |
|   | 1-1/2      | 2.160       | .550        |
|   | 2          | 2.680       | .600        |
|   | 2-1/2      | 3.150       | .635        |
|   | 3          | 3.800       | .725        |

|   |              |              |             |
|---|--------------|--------------|-------------|
|  | <b>3-1/2</b> | <b>4.275</b> | <b>.725</b> |
|   | <b>4</b>     | <b>4.775</b> | <b>.750</b> |
|   | <b>5</b>     | <b>6.350</b> | <b>.975</b> |
|   | <b>6</b>     | <b>7.475</b> | <b>.975</b> |

### INTERMEDIATE METALLIC CONDUIT (IMC)

| ALL SIZES ARE INCHES |                  | INSIDE DIAMETER (ID) | OUTSIDE DIAMETER (OD) |         |
|----------------------|------------------|----------------------|-----------------------|---------|
| TRADE SIZE           | THREADS PER INCH | NOMINAL              | NOMINAL               | MAXIMUM |
| <b>1/2</b>           | 14               | <b>.675</b>          | <b>.815</b>           | .820    |
| <b>3/4</b>           | 14               | <b>.879</b>          | <b>1.029</b>          | 1.034   |
| <b>1</b>             | 11-1/2           | <b>1.120</b>         | <b>1.290</b>          | 1.295   |
| <b>1-1/4</b>         | 11-1/2           | <b>1.468</b>         | <b>1.638</b>          | 1.645   |
| <b>1-1/2</b>         | 11-1/2           | <b>1.703</b>         | <b>1.883</b>          | 1.890   |
| <b>2</b>             | 11-1/2           | <b>2.170</b>         | <b>2.360</b>          | 2.367   |
| <b>2-1/2</b>         | 8                | <b>2.597</b>         | <b>2.857</b>          | 2.867   |
| <b>3</b>             | 8                | <b>3.216</b>         | <b>3.476</b>          | 3.486   |
| <b>3-1/2</b>         | 8                | <b>3.711</b>         | <b>3.971</b>          | 3.981   |
| <b>4</b>             | 8                | <b>4.206</b>         | <b>4.466</b>          | 4.476   |

U.L. Proposed Dimensions for Intermediate Metallic Conduit - Type I.

IMC Threads and Knockout Sizes are the same as Rigid Metal Conduit.

Standard rigid threaded conduit fittings can be used with I.M.C.

**Electrical metallic tubing is not threaded, and must be connected to junction boxes and the like with conduit connectors that secure to the tubing by means of a set screw or collet and nut; then the connectors have integrated shoulders and threads that secure to the box with a nut.**

### ELECTRICAL METALLIC TUBING (EMT)

| ALL SIZES ARE INCHES | INSIDE DIAMETER (ID) | WALL THICKNESS | OUTSIDE DIAMETER (OD) |           |
|----------------------|----------------------|----------------|-----------------------|-----------|
|                      | NOMINAL              | NOMINAL        | NOMINAL               | TOLERANCE |
| <b>3/8</b>           | <b>.493</b>          | .042           | <b>.577</b>           | +/- .005  |
| <b>1/2</b>           | <b>.622</b>          | .042           | <b>.706</b>           | +/- .005  |
| <b>3/4</b>           | <b>.824</b>          | .049           | <b>.922</b>           | +/- .005  |
| <b>1</b>             | <b>1.049</b>         | .057           | <b>1.163</b>          | +/- .005  |
| <b>1-1/4</b>         | <b>1.380</b>         | .065           | <b>1.510</b>          | +/- .005  |
| <b>1-1/2</b>         | <b>1.610</b>         | .065           | <b>1.740</b>          | +/- .005  |
| <b>2</b>             | <b>2.067</b>         | .065           | <b>2.197</b>          | +/- .005  |

|                |              |      |                |          |
|----------------|--------------|------|----------------|----------|
| <b>* 2-1/2</b> | <b>2.731</b> | .072 | <b>* 2.875</b> | +/- .010 |
| <b>* 3</b>     | <b>3.356</b> | .072 | <b>* 3.500</b> | +/- .015 |
| <b>* 3-1/2</b> | <b>3.834</b> | .083 | <b>* 4.000</b> | +/- .020 |
| <b>* 4</b>     | <b>4.334</b> | .083 | <b>* 4.500</b> | +/- .020 |

\* These sizes of EMT have the same nominal outside diameter as the corresponding size rigid conduit.

EMT is sometimes called "thin-wall conduit".