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SECTION J PLASTIC HARDWARE

J1

PLASTIC HARDWARE



Plastic Hardware

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H.B. ETLIN CO. LTD.

Plastic Hardware

NYLON MACHINE SCREWS PREFIX/SUFFIX KEY

J2

NYLON MACHINE SCREWS PREFIX KEY

| DESCRIPTION | PREFIX CODE |
|------------------------------------|-------------|
| NYLON MACHINE SCREWS | NMS |
| NYLON MACHINE SCREWS - FLAT & OVAL | NMS |
| METRIC NYLON MACHINE SCREWS | NMSM |
| METAL CORE NYLON MACHINE SCREWS | NSMC |
| NYLON HEX BOLTS (CAP SCREWS) | NHB |
| NYLON THUMB SCREWS - KNURLED | NKTS |
| NYLON THUMB SCREWS | NTS |
| THREADED ROD | NTR |
| UNSLOTTED NYLON THUMB SCREW | NUTS |

NYLON MACHINE SCREWS SUFFIX KEY

| HEAD STYLE | SIZE & LENGTH RANGE | SUFFIX CODE |
|-------------------|--|-------------|
| BINDING SLOTTED | $\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1 | BS |
| FILLISTER SLOTTED | $\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1 | FS |
| HEX SLOTTED | $\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1 | HS |
| HEX UNSLOTTED | $\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1 | HU |
| PAN SLOTTED | $\frac{1}{64} - \frac{1}{4}$ TO $\frac{5}{16}$ -18 - $\frac{7}{8}$ | PS |
| ROUND SLOTTED | $\frac{1}{64} - \frac{1}{4}$ TO $\frac{1}{4}$ -28 - 1 | RS |
| SET SLOTTED | $\frac{2}{56} - \frac{3}{32}$ TO $\frac{1}{4}$ -28 - 1 | SS |
| SOCKET SET | $\frac{4}{36} - \frac{1}{2}$ TO $\frac{3}{4}$ -10 - $\frac{1}{4}$ | SO |
| PHILLIPS PAN | $\frac{2}{56} - \frac{3}{32}$ TO $\frac{10}{32}$ - 2 | PP |
| PHILLIPS BINDER | $\frac{4}{36} - \frac{1}{2}$ TO $\frac{1}{4}$ -28 - 1 | PB |

METRIC NYLON MACHINE SCREWS SUFFIX KEY

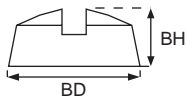
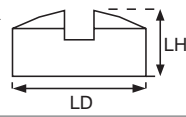
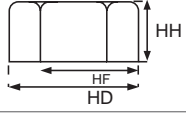
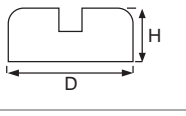
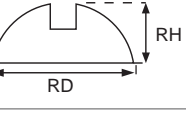
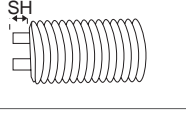
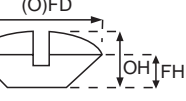
| HEAD STYLE | SIZE & LENGTH RANGE | SUFFIX CODE |
|--------------------|------------------------------------|-------------|
| CHEESE SLOTTED | M2X.4 X 4MM TO M10X1.50 X 60 MM | CS |
| HEX SLOTTED | M2X.4 X 4MM TO M10X1.50 X 60 MM | HS |
| HEX UNSLOTTED | M2X.4 X 4MM TO M10X1.50 X 60 MM | HU |
| FILLISTER PHILLIPS | M2X.4 X 4MM TO M10X1.50 X 60 MM | FP |
| FILLISTER SLOTTED | M2X.4 X 4MM TO M10X1.50 X 60 MM | FS |
| FLAT PHILLIPS | M2X.4 X 4MM TO M10X1.50 X 60 MM | LP |
| FLAT SLOTTED | M2X.4 X 4MM TO M10X1.50 X 60 MM | LS |
| OVAL SLOTTED | M2X.4 X 4MM TO M10X1.50 X 60 MM | OS |
| PHILLIPS PAN | M2X.4 X 4MM TO M10X1.50 X 60 MM | PP |
| PAN SLOTTED | M2X.4 X 4MM TO M10X1.50 X 60 MM | PS |
| OVAL PHILLIPS | M2.5X.45 X 4MM TO M10X1.50 X 35 MM | OP |
| THUMB SCREW | M3X.5 X 4 MM TO M6X1.00 X 75 MM | TS |

TECHNICAL DATA

J3

TECHNICAL DATA FOR NYLON MACHINE SCREWS

NOMINAL DIMENSIONS (INCHES). DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

| HEAD TYPE | | THREAD SIZE | | | | | | | | | | |
|---|-------|-------------|------|------|------|------|------|------|------|------|------|------|
| | | #0 | #2 | #3 | #4 | #5 | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 |
| BINDING  | BH | .028 | .050 | .056 | .065 | .073 | .080 | .110 | .120 | .155 | -- | -- |
| | BD | .123 | .175 | .203 | .235 | .256 | .290 | .350 | .380 | .500 | -- | -- |
| FILLISTER  | LH | .051 | .075 | .087 | .100 | .100 | .125 | .150 | .175 | .230 | -- | .335 |
| | LD | .090 | .140 | .153 | .180 | .196 | .215 | .255 | .300 | .400 | -- | .606 |
| HEX & SLOTTED HEX  | HH | -- | .040 | .050 | .055 | .064 | .085 | .110 | .110 | .175 | .219 | -- |
| | HF | -- | .125 | .180 | .180 | .180 | .250 | .250 | .310 | .370 | .495 | -- |
| | HD | -- | .140 | .205 | .205 | .283 | .270 | .340 | .425 | .545 | .545 | -- |
| PAN  | PH | .035 | .050 | .056 | .065 | .070 | .075 | .080 | .110 | .160 | .170 | -- |
| | PD | .110 | .160 | .186 | .210 | .238 | .265 | .320 | .365 | .475 | .604 | -- |
| ROUND  | RH | .050 | .070 | .075 | .090 | -- | .100 | .110 | .130 | .160 | -- | -- |
| | RD | .106 | .150 | .175 | .210 | -- | .260 | .290 | .325 | .475 | -- | -- |
| SET  | SH | -- | .035 | -- | .045 | -- | .055 | .055 | .060 | .080 | -- | -- |
| FLAT (OVAL)  | OH | -- | .070 | -- | .090 | -- | .110 | .140 | .160 | .220 | .270 | .325 |
| | FH | -- | .055 | -- | .070 | -- | .085 | .100 | .120 | .115 | .191 | .230 |
| | (O)FD | -- | .170 | -- | .225 | -- | .280 | .332 | .385 | .507 | .602 | .723 |

STEEL CORE ROUND, FILLISTER AND FLAT HEADS, SAME AS ABOVE

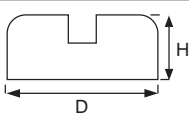
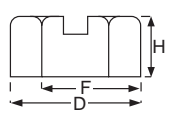
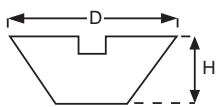
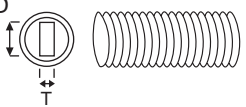
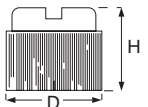
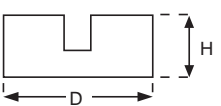
Plastic Hardware

Plastic Hardware

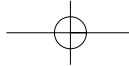
TECHNICAL DATA

J4 TECHNICAL DATA FOR NYLON MACHINE SCREWS

NOMINAL DIMENSIONS (MM). DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

| HEAD TYPE APPROXIMATE AMERICAN STANDARD EQUIVALENT | | SCREW SIZE | | | | | | | | | |
|---|----|------------|------|-----|------|------|------|-------|-------|-------|--|
| | | M2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 8 | 10 | |
| | | #2 | #3 | #4 | #6 | #8 | #10 | 1/4 | 5/16 | 3/8 | |
| PAN DIN 85  | D | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 10.0 | 12.0 | 16.0 | 20.0 | |
| | H | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 3.0 | 3.6 | 4.8 | 6.0 | |
| SLOTTED HEX  | F | 3.2 | 4.0 | 5.5 | 6.0 | 7.0 | 8.0 | 10.0 | 13.0 | 17.0 | |
| | D | 3.38 | 4.28 | 5.4 | 6.93 | 7.59 | 8.71 | 10.95 | 14.26 | 17.62 | |
| | H | 1.15 | 1.3 | 2.0 | 2.15 | 2.8 | 3.5 | 4.0 | 5.0 | 7.0 | |
| FLAT DIN 963  | D | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 10.0 | 12.0 | 16.0 | 20.0 | |
| | H | 1.2 | 1.25 | 1.5 | 1.75 | 2.0 | 2.5 | 3.0 | 4.0 | 5.0 | |
| SLOTTED GRUB SD  | SD | -- | -- | -- | -- | 2.0 | 3.3 | 4.1 | 5.2 | 6.6 | |
| | T | -- | -- | -- | -- | 0.76 | 1.3 | 1.5 | 2.4 | 2.8 | |
| SLOTTED THUMB  | D | -- | -- | 5.5 | 6.4 | 7.1 | 8.1 | 8.3 | -- | -- | |
| | H | -- | -- | 8.1 | 8.8 | 9.7 | 10.5 | 12.5 | -- | -- | |
| CHEESE  | D | 3.8 | 4.5 | 5.5 | 6.0 | 7.0 | 8.5 | 10.0 | 13.0 | 16.0 | |
| | H | 1.3 | 1.6 | 2.0 | 2.4 | 2.6 | 3.3 | 3.9 | 5.0 | 6.0 | |

Plastic Hardware



NYLON MACHINE SCREWS

J5

NYLON MACHINE SCREWS

| PART NUMBER | SIZE (in / mm) | LENGTH (in / mm) |
|--------------|----------------|------------------|
| NMS164X.250 | 1/64 (.397) | 1/4 (6.35) |
| NMS172X.250 | 1/72 (.353) | 1/4 (6.35) |
| NMS172X.500 | 1/72 (.353) | 1/2 (12.7) |
| NMS256X.094 | 2/56 (.907) | 3/32 (2.38) |
| NMS256X.125 | 2/56 (.907) | 1/8 (3.18) |
| NMS256X.187 | 2/56 (.907) | 3/16 (4.76) |
| NMS256X.250 | 2/56 (.907) | 1/4 (6.35) |
| NMS256X.312 | 2/56 (.907) | 5/16 (7.94) |
| NMS256X.375 | 2/56 (.907) | 3/8 (9.53) |
| NMS256X.437 | 2/56 (.907) | 7/16 (11.11) |
| NMS256X.500 | 2/56 (.907) | 1/2 (12.7) |
| NMS256X.625 | 2/56 (.907) | 5/8 (15.88) |
| NMS256X.750 | 2/56 (.907) | 3/4 (19.05) |
| NMS436X.500 | 4/36 (2.82) | 1/2 (12.7) |
| NMS440X.125 | 4/40 (2.54) | 1/8 (3.18) |
| NMS440X.187 | 4/40 (2.54) | 3/16 (4.76) |
| NMS440X.250 | 4/40 (2.54) | 1/4 (6.35) |
| NMS440X.312 | 4/40 (2.54) | 5/16 (7.94) |
| NMS440X.375 | 4/40 (2.54) | 3/8 (9.53) |
| NMS440X.437 | 4/40 (2.54) | 7/16 (11.11) |
| NMS440X.500 | 4/40 (2.54) | 1/2 (12.7) |
| NMS440X.625 | 4/40 (2.54) | 5/8 (15.88) |
| NMS440X.750 | 4/40 (2.54) | 3/4 (19.05) |
| NMS440X.875 | 4/40 (2.54) | 7/8 (22.23) |
| NMS440X1.000 | 4/40 (2.54) | 1 (25.4) |
| NMS440X1.250 | 4/40 (2.54) | 1-1/4 (31.75) |
| NMS632X.125 | 6/32 (4.76) | 1/8 (3.18) |
| NMS632X.187 | 6/32 (4.76) | 3/16 (4.76) |
| NMS632X.250 | 6/32 (4.76) | 1/4 (6.35) |
| NMS632X.312 | 6/32 (4.76) | 5/16 (7.94) |
| NMS632X.375 | 6/32 (4.76) | 3/8 (9.53) |
| NMS632X.437 | 6/32 (4.76) | 7/16 (11.11) |
| NMS632X.500 | 6/32 (4.76) | 1/2 (12.7) |
| NMS632X.625 | 6/32 (4.76) | 5/8 (15.88) |
| NMS632X.750 | 6/32 (4.76) | 3/4 (19.05) |

| PART NUMBER | SIZE (in / mm) | LENGTH (in / mm) |
|---------------|----------------|------------------|
| NMS632X1.000 | 6/32 (4.76) | 1 (25.4) |
| NMS632X1.250 | 6/32 (4.76) | 1-1/4 (31.75) |
| NMS632X1.500 | 6/32 (4.76) | 1-1/2 (38.1) |
| NMS832X.187 | 8/32 (6.35) | 3/16 (4.76) |
| NMS832X.250 | 8/32 (6.35) | 1/4 (6.35) |
| NMS832X.312 | 8/32 (6.35) | 5/16 (7.94) |
| NMS832X.375 | 8/32 (6.35) | 3/8 (9.53) |
| NMS832X.437 | 8/32 (6.35) | 7/16 (11.11) |
| NMS832X.500 | 8/32 (6.35) | 1/2 (12.7) |
| NMS832X.625 | 8/32 (6.35) | 5/8 (15.88) |
| NMS832X.750 | 8/32 (6.35) | 3/4 (19.05) |
| NMS832X.875 | 8/32 (6.35) | 7/8 (22.23) |
| NMS832X1.000 | 8/32 (6.35) | 1 (25.4) |
| NMS832X1.250 | 8/32 (6.35) | 1-1/4 (31.75) |
| NMS832X1.500 | 8/32 (6.35) | 1-1/2 (38.1) |
| NMS1024X.250 | 10/24 (10.58) | 1/4 (6.35) |
| NMS1024X.312 | 10/24 (10.58) | 5/16 (7.94) |
| NMS1024X.375 | 10/24 (10.58) | 3/8 (9.53) |
| NMS1024X.500 | 10/24 (10.58) | 1/2 (12.7) |
| NMS1024X.750 | 10/24 (10.58) | 3/4 (19.05) |
| NMS1024X1.000 | 10/24 (10.58) | 1 (25.4) |
| NMS1024X1.500 | 10/24 (10.58) | 1-1/2 (38.1) |
| NMS1032X.125 | 10/32 (7.94) | 1/8 (3.18) |
| NMS1032X.187 | 10/32 (7.94) | 3/16 (4.76) |
| NMS1032X.250 | 10/32 (7.94) | 1/4 (6.35) |
| NMS1032X.312 | 10/32 (7.94) | 5/16 (7.94) |
| NMS1032X.375 | 10/32 (7.94) | 3/8 (9.53) |
| NMS1032X.500 | 10/32 (7.94) | 1/2 (12.7) |
| NMS1032X.625 | 10/32 (7.94) | 5/8 (15.88) |
| NMS1032X.750 | 10/32 (7.94) | 3/4 (19.05) |
| NMS1032X.875 | 10/32 (7.94) | 7/8 (22.23) |
| NMS1032X1.000 | 10/32 (7.94) | 1 (25.4) |
| NMS1032X1.250 | 10/32 (7.94) | 1-1/4 (31.75) |
| NMS1032X1.500 | 10/32 (7.94) | 1-1/2 (38.1) |
| NMS1032X2.000 | 10/32 (7.94) | 2 (50.8) |

| PART NUMBER | SIZE (in) | LENGTH (in / mm) |
|----------------|-----------|------------------|
| NMS1420X.250 | 1/4-20 | 1/4 (6.35) |
| NMS1420X.312 | 1/4-20 | 5/16 (7.94) |
| NMS1420X.375 | 1/4-20 | 3/8 (9.53) |
| NMS1420X.500 | 1/4-20 | 1/2 (12.7) |
| NMS1420X.625 | 1/4-20 | 5/8 (15.88) |
| NMS1420X.750 | 1/4-20 | 3/4 (19.05) |
| NMS1420X.875 | 1/4-20 | 7/8 (22.23) |
| NMS1420X1.000 | 1/4-20 | 1 (25.4) |
| NMS1420X1.250 | 1/4-20 | 1-1/4 (31.75) |
| NMS1420X1.500 | 1/4-20 | 1-1/2 (38.1) |
| NMS1420X2.000 | 1/4-20 | 2 (50.8) |
| NMS1428X.500 | 1/4-28 | 1/2 (12.7) |
| NMS1428X.625 | 1/4-28 | 5/8 (15.88) |
| NMS1428X.750 | 1/4-28 | 3/4 (19.05) |
| NMS1428X1.000 | 1/4-28 | 1 (25.4) |
| NMS1428X1.250 | 1/4-28 | 1-1/4 (31.75) |
| NMS1428X1.500 | 1/4-28 | 1-1/2 (38.1) |
| NMS51618X.500 | 5/16-18 | 1/2 (12.7) |
| NMS51618X.750 | 5/16-18 | 3/4 (19.05) |
| NMS51618X.875 | 5/16-18 | 7/8 (22.23) |
| NMS51618X1.000 | 5/16-18 | 1 (25.4) |
| NMS51618X1.250 | 5/16-18 | 1-1/4 (31.75) |
| NMS51618X1.500 | 5/16-18 | 1-1/2 (38.1) |
| NMS51618X2.000 | 5/16-18 | 2 (50.8) |
| NMS51618X2.500 | 5/16-18 | 2-1/2 (63.5) |
| NMS51618X3.000 | 5/16-18 | 3 (76.2) |
| NMS3410X.250 | 3/4-10 | 1/4 (6.35) |
| NMS3816X.500 | 3/8-16 | 1/2 (12.7) |
| NMS3816X.750 | 3/8-16 | 3/4 (19.05) |
| NMS3816X1.000 | 3/8-16 | 1 (25.4) |
| NMS3816X1.250 | 3/8-16 | 1-1/4 (31.75) |
| NMS3816X1.500 | 3/8-16 | 1-1/2 (38.1) |
| NMS3816X2.000 | 3/8-16 | 2 (50.8) |
| NMS3816X2.500 | 3/8-16 | 2-1/2 (63.5) |
| NMS3816X3.000 | 3/8-16 | 3 (76.2) |

Nylon Machine Screws

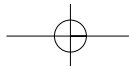
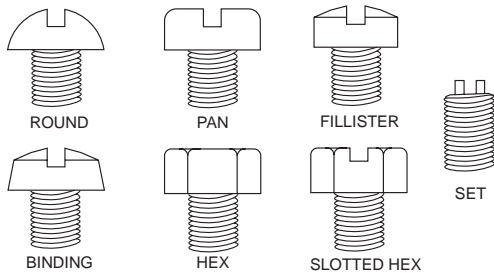
Nylon screws are anti-corrosive, non-marring, tough and lightweight. They conform to irregular surfaces and are friction, abrasion and vibration resistant, and are good electrical and thermal insulators.

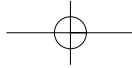
Specify head style by adding the following suffixes when ordering:

- BS = Binding
- FS = Fillister
- HS = Hex Slotted
- HU = Hex Unslotted
- PB = Phillips Binder
- PP = Phillips Pan
- PS = Pan Slotted
- RS = Round Slotted
- SS = Set Slotted
- SO = Socket Set

Minimum Order: 100 (Slotted Hex Minimum 1,000)

Other sizes and lengths available.





Plastic Hardware

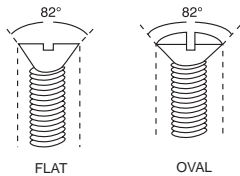
NYLON MACHINE SCREWS

J6

NYLON MACHINE SCREWS - FLAT AND OVAL HEAD (82°)

| PART NUMBER | SIZE (in) | LENGTH (in / mm) |
|--------------|-------------|------------------|
| NMS256X.187 | 2/56 (.907) | 3/16 (4.76) |
| NMS256X.250 | 2/56 (.907) | 1/4 (6.35) |
| NMS256X.312 | 2/56 (.907) | 5/16 (7.94) |
| NMS256X.375 | 2/56 (.907) | 3/8 (9.53) |
| NMS256X.500 | 2/56 (.907) | 1/2 (12.7) |
| NMS256X.625 | 2/56 (.907) | 5/8 (15.88) |
| NMS256X.750 | 2/56 (.907) | 3/4 (19.05) |
| NMS440X.187 | 4/40 (2.54) | 3/16 (4.76) |
| NMS440X.250 | 4/40 (2.54) | 1/4 (6.35) |
| NMS440X.312 | 4/40 (2.54) | 5/16 (7.94) |
| NMS440X.375 | 4/40 (2.54) | 3/8 (9.53) |
| NMS440X.500 | 4/40 (2.54) | 1/2 (12.7) |
| NMS440X.625 | 4/40 (2.54) | 5/8 (15.88) |
| NMS440X.750 | 4/40 (2.54) | 3/4 (19.05) |
| NMS440X1.000 | 4/40 (2.54) | 1 (25.4) |
| NMS440X1.250 | 4/40 (2.54) | 1-1/4 (31.75) |
| NMS632X.187 | 6/32 (4.76) | 3/16 (4.76) |
| NMS632X.250 | 6/32 (4.76) | 1/4 (6.35) |
| NMS632X.312 | 6/32 (4.76) | 5/16 (7.94) |
| NMS632X.375 | 6/32 (4.76) | 3/8 (9.53) |
| NMS632X.500 | 6/32 (4.76) | 1/2 (12.7) |
| NMS632X.625 | 6/32 (4.76) | 5/8 (15.88) |
| NMS632X.750 | 6/32 (4.76) | 3/4 (19.05) |
| NMS632X1.000 | 6/32 (4.76) | 1 (25.4) |
| NMS632X1.250 | 6/32 (4.76) | 1-1/4 (31.75) |
| NMS832X.250 | 8/32 (6.35) | 1/4 (6.35) |

| PART NUMBER | SIZE (in) | LENGTH (in / mm) |
|----------------|---------------|------------------|
| NMS832X.312 | 8/32 (6.35) | 5/16 (7.94) |
| NMS832X.375 | 8/32 (6.35) | 3/8 (9.53) |
| NMS832X.500 | 8/32 (6.35) | 1/2 (12.7) |
| NMS832X.625 | 8/32 (6.35) | 5/8 (15.88) |
| NMS832X.750 | 8/32 (6.35) | 3/4 (19.05) |
| NMS832X1.000 | 8/32 (6.35) | 1 (25.4) |
| NMS1024X.500 | 10/24 (10.58) | 1/2 (12.7) |
| NMS1032X.250 | 10/32 (7.94) | 1/4 (6.35) |
| NMS1032X.312 | 10/32 (7.94) | 5/16 (7.94) |
| NMS1032X.375 | 10/32 (7.94) | 3/8 (9.53) |
| NMS1032X.500 | 10/32 (7.94) | 1/2 (12.7) |
| NMS1032X.750 | 10/32 (7.94) | 3/4 (19.05) |
| NMS1032X1.000 | 10/32 (7.94) | 1 (25.4) |
| NMS1032X1.250 | 10/32 (7.94) | 1-1/4 (31.75) |
| NMS1032X1.500 | 10/32 (7.94) | 1-1/2 (38.1) |
| NMS1420X.250 | 1/4-20 | 1/4 (6.35) |
| NMS1420X.500 | 1/4-20 | 1/2 (12.7) |
| NMS1420X.625 | 1/4-20 | 5/8 (15.88) |
| NMS1420X.750 | 1/4-20 | 3/4 (19.05) |
| NMS1420X.875 | 1/4-20 | 7/8 (22.23) |
| NMS1420X1.000 | 1/4-20 | 1 (25.4) |
| NMS1420X1.250 | 1/4-20 | 1-1/4 (31.75) |
| NMS1420X1.500 | 1/4-20 | 1-1/2 (38.1) |
| NMS1420X2.000 | 1/4-20 | 2 (50.8) |
| NMS51618X1.000 | 5/16-18 | 1 (25.4) |
| NMS3816X1.750 | 3/8-16 | 1-3/4 (44.45) |



Nylon Machine Screws – Flat and Oval Head

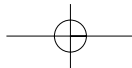
Specify head style by adding the following suffixes when ordering:

- FH = Flat
- OH = Oval

Minimum Order: 100 Flat Head; 1,000 Oval Head

Other sizes and lengths available.

Plastic Hardware



NYLON MACHINE SCREWS

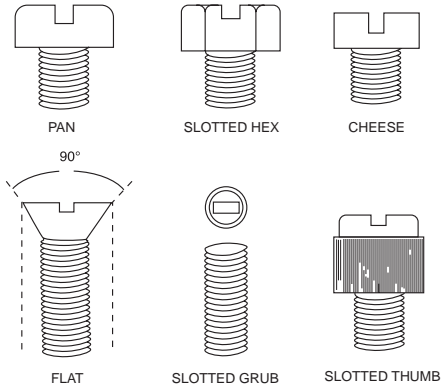
METRIC NYLON MACHINE SCREWS

J7

Metric Nylon Machine Screws

Serving the same purpose as standard nylon machine screws but with metric threads, diameters and lengths. They are anti-corrosive, non-marring, tough and lightweight.

Add the following suffixes to specify head styles when ordering:



- CS = Cheese Slotted
- HS = Hex Slotted
- HU = Hex Unslotted
- FP = Fillister Phillips
- FS = Fillister Slotted
- LP = Flat Phillips
- LS = Flat Slotted
- OS = Oval Slotted
- OP = Oval Phillips
- PP = Phillips Pan
- PS = Pan Slotted
- SG = Slotted Grub
- TS = Slotted Thumb Screw

Minimum order: 1,000

Plastic Hardware

METRIC NYLON MACHINE SCREWS

J8

METRIC NYLON MACHINE SCREWS

| PART NUMBER | SIZE | LENGTH (mm) | PART NUMBER | SIZE | LENGTH (mm) |
|-------------|----------------|-------------|-------------|----------------|-------------|
| NMSM2X5 | M2 PITCH .40 | 5 | NMSM4X30 | M4 PITCH .70 | 30 |
| NMSM2X6 | M2 PITCH .40 | 6 | NMSM4X35 | M4 PITCH .70 | 35 |
| NMSM2X8 | M2 PITCH .40 | 8 | NMSM4X40 | M4 PITCH .70 | 40 |
| NMSM2X10 | M2 PITCH .40 | 10 | NMSM5X6 | M5 PITCH .80 | 6 |
| NMSM2X12 | M2 PITCH .40 | 12 | NMSM5X8 | M5 PITCH .80 | 8 |
| NMSM2X16 | M2 PITCH .40 | 16 | NMSM5X10 | M5 PITCH .80 | 10 |
| NMSM2X20 | M2 PITCH .40 | 20 | NMSM5X12 | M5 PITCH .80 | 12 |
| NMSM2.5X5 | M2.5 PITCH .45 | 5 | NMSM5X16 | M5 PITCH .80 | 16 |
| NMSM2.5X6 | M2.5 PITCH .45 | 6 | NMSM5X20 | M5 PITCH .80 | 20 |
| NMSM2.5X10 | M2.5 PITCH .45 | 10 | NMSM5X25 | M5 PITCH .80 | 25 |
| NMSM2.5X12 | M2.5 PITCH .45 | 12 | NMSM5X30 | M5 PITCH .80 | 30 |
| NMSM2.5X16 | M2.5 PITCH .45 | 16 | NMSM5X35 | M5 PITCH .80 | 35 |
| NMSM2.5X20 | M2.5 PITCH .45 | 20 | NMSM5X40 | M5 PITCH .80 | 40 |
| NMSM2.5X25 | M2.5 PITCH .45 | 25 | NMSM6X8 | M6 PITCH 1.00 | 8 |
| NMSM3X5 | M3 PITCH .50 | 5 | NMSM6X10 | M6 PITCH 1.00 | 10 |
| NMSM3X6 | M3 PITCH .50 | 6 | NMSM6X12 | M6 PITCH 1.00 | 12 |
| NMSM3X8 | M3 PITCH .50 | 8 | NMSM6X16 | M6 PITCH 1.00 | 16 |
| NMSM3X10 | M3 PITCH .50 | 10 | NMSM6X20 | M6 PITCH 1.00 | 20 |
| NMSM3X12 | M3 PITCH .50 | 12 | NMSM6X25 | M6 PITCH 1.00 | 25 |
| NMSM3X16 | M3 PITCH .50 | 16 | NMSM6X30 | M6 PITCH 1.00 | 30 |
| NMSM3X20 | M3 PITCH .50 | 20 | NMSM6X35 | M6 PITCH 1.00 | 35 |
| NMSM3X25 | M3 PITCH .50 | 25 | NMSM6X40 | M6 PITCH 1.00 | 40 |
| NMSM3X30 | M3 PITCH .50 | 30 | NMSM8X10 | M8 PITCH 1.25 | 10 |
| NMSM3.5X5 | M3.5 PITCH .60 | 5 | NMSM8X16 | M8 PITCH 1.25 | 16 |
| NMSM3.5X6 | M3.5 PITCH .60 | 6 | NMSM8X20 | M8 PITCH 1.25 | 20 |
| NMSM3.5X8 | M3.5 PITCH .60 | 8 | NMSM8X25 | M8 PITCH 1.25 | 25 |
| NMSM3.5X10 | M3.5 PITCH .60 | 10 | NMSM8X30 | M8 PITCH 1.25 | 30 |
| NMSM3.5X12 | M3.5 PITCH .60 | 12 | NMSM8X35 | M8 PITCH 1.25 | 35 |
| NMSM3.5X16 | M3.5 PITCH .60 | 16 | NMSM10X10 | M10 PITCH 1.50 | 10 |
| NMSM3.5X20 | M3.5 PITCH .60 | 20 | NMSM10X12 | M10 PITCH 1.50 | 12 |
| NMSM3.5X25 | M3.5 PITCH .60 | 25 | NMSM10X16 | M10 PITCH 1.50 | 16 |
| NMSM3.5X35 | M3.5 PITCH .60 | 35 | NMSM10X20 | M10 PITCH 1.50 | 20 |
| NMSM4X6 | M4 PITCH .70 | 6 | NMSM10X25 | M10 PITCH 1.50 | 25 |
| NMSM4X8 | M4 PITCH .70 | 8 | NMSM10X30 | M10 PITCH 1.50 | 30 |
| NMSM4X10 | M4 PITCH .70 | 10 | NMSM10X35 | M10 PITCH 1.50 | 35 |
| NMSM4X12 | M4 PITCH .70 | 12 | NMSM10X40 | M10 PITCH 1.50 | 40 |
| NMSM4X16 | M4 PITCH .70 | 16 | NMSM10X50 | M10 PITCH 1.50 | 50 |
| NMSM4X20 | M4 PITCH .70 | 20 | NMSM10X60 | M10 PITCH 1.50 | 60 |
| NMSM4X25 | M4 PITCH .70 | 25 | | | |

SLOTTED GRUB SCREWS IN SIZES M4 TO M10 ONLY
 SLOTTED THUMB SCREWS IN SIZES M3 TO M6 ONLY
 OTHER LENGTHS AVAILABLE

H.B. ETLIN CO. LTD.

FOR MORE INFORMATION CALL
1-800-661-9610 (Canada) 1-888-762-5384 (USA)

Plastic Hardware

METRIC NYLON MACHINE SCREWS**TECHNICAL DATA FOR NYLON MACHINE SCREWS****J9**

DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

| SIZE | ULTIMATE TORQUE | MAXIMUM TORQUE BEFORE DEFORMATION | TENSILE TEST | | DOUBLE SHEAR | |
|--------|-----------------|-----------------------------------|--------------|-----------|--------------|-----------|
| | | | YIELD LBS | BREAK LBS | YIELD LBS | BREAK LBS |
| 2/56 | NO TEST | NO TEST | 16 | 19 | NO TEST | NO TEST |
| 4/40 | 24" OZ | 12" - 16" OZ | 38 | 41 | 45 | 50 |
| 6/32 | 30" OZ | 18" - 20" OZ | 65 | 69 | 91 | 97 |
| 8/32 | 5" LBS | 2" - 3" LBS | 99 | 108 | 158 | 164 |
| 10/24 | 6" LBS | 2" - 4" LBS | 139 | 149 | 187 | 257 |
| 10/32 | 7" LBS | 3" - 4" LBS | 155 | 165 | 234 | 241 |
| 1/4-20 | 13" LBS | 9" - 10" LBS | 296 | 312 | 413 | 432 |

Moulded Nylon Screws – Technical Data

Moulded nylon parts are subject to moisture loss and gain. In moulded nylon screws, moistness or dryness can cause subtle size changes. The same is true for temperature change.

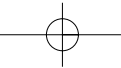
Additionally, there are tooling problems because all screws come from cavities parted along the screw length. Although the moulds are doweled and pinned to provide mould match, in the course of moulding, wear takes place on the pins, on the mould face and base and even on the moulding machine itself, thus working against ideal alignment. Moulded nylon screws are not held to tolerances as close as those for metal screws. However, the slight mismatch and the natural fractional flash are not as serious as they would be in metal. Nylon, being flexible, is also forgiving of tolerance lapses.

Nylon cannot be held to tolerances that apply to metal and the use of gauges to measure screws just doesn't work. They are tested by trying them in their actual applications. Otherwise, it is impractical for the customer to use them or the supplier to make them.

Amazingly enough, they work.

All tests performed per ASTM specifications. Parts moulded in Nylon 6/6 Dupont Zytel 101, dry as moulded, unmoisturized, at 73°F. Results are average of random parts tested.

Plastic Hardware



NYLON MACHINE SCREWS

J10 TECHNICAL DATA FOR METAL CORE NYLON SCREWS

DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

| SIZE | ULTIMATE TORQUE | MAXIMUM TORQUE BEFORE DEFORMATION | TENSILE TEST | | DOUBLE SHEAR | |
|--------|-----------------|-----------------------------------|--------------|-----------|--------------|-----------|
| | | | YIELD LBS | BREAK LBS | YIELD LBS | BREAK LBS |
| 6/32 | 1" LBS | 1.5" LBS | 24 | 32 | 200 | 240 |
| 8/32 | 3" LBS | 4" LBS | 66 | 72 | 300 | 360 |
| 10/32 | 5" LBS | 6" LBS | 96 | 104 | 600 | 640 |
| 1/4-20 | 12" LBS | 13" LBS | 120 | 174 | 1,400 | 1,600 |

METAL CORE NYLON SCREWS

Metal Core Nylon Screws

| PART NUMBER | SIZE (in/mm) | LENGTH (in/mm) |
|----------------|--------------|----------------|
| NSMC632X.250 | 6/32 (4.76) | 1/4 (6.35) |
| NSMC632X.375 | 6/32 (4.76) | 3/8 (9.53) |
| NSMC632X.500 | 6/32 (4.76) | 1/2 (12.7) |
| NSMC632X.625 | 6/32 (4.76) | 5/8 (15.88) |
| NSMC632X.750 | 6/32 (4.76) | 3/4 (19.05) |
| NSMC832X.375 | 8/32 (6.35) | 3/8 (9.53) |
| NSMC832X.500 | 8/32 (6.35) | 1/2 (12.7) |
| NSMC832X.750 | 8/32 (6.35) | 3/4 (19.05) |
| NSMC832X1.000 | 8/32 (6.35) | 1 (25.4) |
| NSMC1032X.375 | 10/32 (7.94) | 3/8 (9.53) |
| NSMC1032X.500 | 10/32 (7.94) | 1/2 (12.7) |
| NSMC1032X.750 | 10/32 (7.94) | 3/4 (19.05) |
| NSMC1032X1.000 | 10/32 (7.94) | 1 (25.4) |
| NSMC1420X.375 | 1/4-20 | 3/8 (9.53) |
| NSMC1420X.500 | 1/4-20 | 1/2 (12.7) |
| NSMC1420X.625 | 1/4-20 | 5/8 (15.88) |
| NSMC1420X.750 | 1/4-20 | 3/4 (19.05) |
| NSMC1420X1.000 | 1/4-20 | 1 (25.4) |
| NSMC1420X1.250 | 1/4-20 | 1-1/4 (31.75) |
| NSMC1420X1.500 | 1/4-20 | 1-1/2 (38.1) |

Stocked in round and fillister heads. Also available in round washer head and flat head.

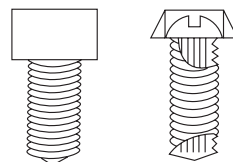
A hardened, cadmium plated, corrugated steel core inside a nylon screw. Provides up to four times the strength of standard nylon fasteners.

Recommended in applications requiring electrical, thermal and vibration insulation in shear or double shear connections. The recessed metal heads allow adequate torque and may be driven with power drivers.

Add the following suffixes to specify head styles when ordering:
 RO = Round
 FI = Fillister
 RW = Round Washer
 LS = Flat Slotted

Minimum order: 1,000

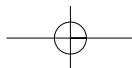
All tests performed per ASTM specifications. Parts moulded in Nylon 6/6 Dupont Zytel 101, dry as moulded, unmoisturized, at 73°F. Results are average of random parts tested.



FILLISTER

ROUND

Plastic Hardware



NYLON HEX BOLTS

J11

TECHNICAL DATA FOR NYLON HEX BOLTS (CAP SCREWS)

DATA LISTED IS FOR REFERENCE PURPOSES ONLY.

| SIZE | ULTIMATE TORQUE | MAXIMUM TORQUE BEFORE DEFORMATION | TENSILE TEST | | DOUBLE SHEAR | |
|---------|-----------------|-----------------------------------|--------------|-----------|--------------|-----------|
| | | | YIELD LBS | BREAK LBS | YIELD LBS | BREAK LBS |
| 1/4-20 | 19" LBS | 15-16 " LBS | 200 | 228 | 413 | 432 |
| 5/16-18 | 37" LBS | 32-34" LBS | 403 | 424 | 866 | 880 |
| 3/8-16 | 49" LBS | 45-46" LBS | 480 | 513 | 1,108 | 1,173 |
| 1/2-13 | 11' LBS | 7-8' LBS | 1,393 | 1,425 | 2,276 | 2,313 |
| 5/8-11 | 22' LBS | 18-19' LBS | 2,260 | 2,303 | 3,340 | 3,410 |

Nylon Hex Bolts (Cap Screws)

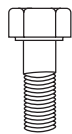
Add the following suffixes to specify head styles when ordering:

HU = Hex Unslotted
HS = Hex Slotted

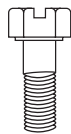
Minimum order:

Hex Head: 100
Slotted Hex: 500
Thread Length:

Bolts are usually threaded as follows:
(Diameter X 2) + 1/2 inch



HEX



SLOTTED HEX

Nylon Hex Bolts (Cap Screws) – Technical Data

All tests performed per ASTM specifications. Parts moulded in Nylon 6/6 Dupont Zytel 101, dry as moulded, unmoisturized, at 73°F. Results are average of random parts tested.

TECHNICAL DATA FOR NYLON HEX BOLTS (CAP SCREWS)

NOMINAL DIMENSIONS - DATA LISTED FOR REFERENCES PURPOSES ONLY

| HEAD TYPE | DIMENSION | THREAD SIZE (in) | | | | |
|-----------|-----------|------------------|------|------|------|-------|
| | | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 |
| | H | .175 | .215 | .250 | .320 | .390 |
| | W | .500 | .555 | .625 | .850 | 1.100 |
| | A | .425 | .485 | .565 | .740 | .935 |

Plastic Hardware

NYLON HEX BOLTS

J12

NYLON HEX BOLTS (CAP SCREWS)

| PART NUMBER | SIZE | LENGTH (in/mm) | PART NUMBER | SIZE | LENGTH (in/mm) |
|----------------|---------|----------------|-----------------|--------|----------------|
| NHB1420X.375 | 1/4-20* | 3/8 (9.53) | NHB3816X.750 | 3/8-16 | 3/4 (19.05) |
| NHB1420X.500 | 1/4-20* | 1/2 (12.7) | NHB3816X1.000 | 3/8-16 | 1 (25.4) |
| NHB1420X.625 | 1/4-20* | 5/8 (15.88) | NHB3816X1.250 | 3/8-16 | 1-1/4 (31.75) |
| NHB1420X.750 | 1/4-20* | 3/4 (19.05) | NHB3816X1.500 | 3/8-16 | 1-1/2 (38.1) |
| NHB1420X1.000 | 1/4-20* | 1 (25.4) | NHB3816X2.000 | 3/8-16 | 2 (50.8) |
| NHB1420X1.250 | 1/4-20* | 1-1/4 (31.75) | NHB3816X2.500 | 3/8-16 | 2-1/2 (63.5) |
| NHB1420X1.500 | 1/4-20* | 1-1/2 (38.1) | NHB3816X3.000 | 3/8-16 | 3 (76.2) |
| NHB1420X2.000 | 1/4-20* | 2 (50.8) | NHB1213X.500 | 1/2-13 | 1/2 (12.7) |
| NHB1420X2.500 | 1/4-20* | 2-1/2 (63.5) | NHB1213X.750 | 1/2-13 | 3/4 (19.05) |
| NHB1420X3.000 | 1/4-20* | 3 (76.2) | NHB1213X1.000 | 1/2-13 | 1 (25.4) |
| NHB1428X.500 | 1/4-28 | 1/2 (12.7) | NHB1213X1.250 | 1/2-13 | 1-1/4 (31.75) |
| NHB1428X.625 | 1/4-28 | 5/8 (15.88) | NHB1213X1.500 | 1/2-13 | 1-1/2 (38.1) |
| NHB1428X.750 | 1/4-28 | 3/4 (19.05) | NHB1213X2.000 | 1/2-13 | 2 (50.8) |
| NHB1428X1.000 | 1/4-28 | 1 (25.4) | NHB1213X2.500 | 1/2-13 | 2-1/2 (63.5) |
| NHB1428X1.250 | 1/4-28 | 1-1/4 (31.75) | NHB1213X3.000 | 1/2-13 | 3 (76.2) |
| NHB1428X1.500 | 1/4-28 | 1-1/2 (38.1) | NHB5811X.500 | 5/8-11 | 1/2 (12.7) |
| NHB1618X.500 | 5/16-18 | 1/2 (12.7) | NHB5811X1.000 | 5/8-11 | 1 (25.4) |
| NHB51618X.750 | 5/16-18 | 3/4 (19.05) | NHB5811X2.000 | 5/8-11 | 2 (50.8) |
| NHB51618X1.000 | 5/16-18 | 1 (25.4) | NHB5811X4.000** | 5/8-11 | 4 (101.6) |
| NHB51618X1.250 | 5/16-18 | 1-1/4 (31.75) | NHB3410X.750 | 3/4-10 | 3/4 (19.05) |
| NHB51618X1.500 | 5/16-18 | 1-1/2 (38.1) | NHB3410X4.000** | 3/4-10 | 4 (101.6) |
| NHB51618X2.000 | 5/16-18 | 2 (50.8) | NHB3410X5.500 | 3/4-10 | 5-1/2 (139.7) |
| NHB51618X2.500 | 5/16-18 | 2-1/2 (63.5) | NHB789X.750 | 7/8-9 | 3/4 (19.05) |
| NHB51618X3.000 | 5/16-18 | 3 (76.2) | NHB789X4.500** | 7/8-9 | 4-1/2 (114.3) |
| NHB3816X.500 | 3/8-16 | 1/2 (12.7) | | | |

* ALSO AVAILABLE IN SOCKET HEAD AND PHILLIPS FILLISTER

** FULLY THREADED

LONGER LENGTHS AVAILABLE

Plastic Hardware

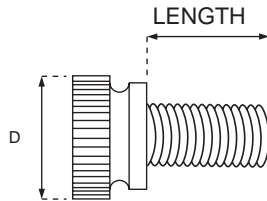
H.B. ETLIN CO. LTD.

FOR MORE INFORMATION CALL
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NYLON THUMB SCREWS

NYLON THUMB SCREWS - KNURLED THUMB SCREWS

J13



Nylon Thumb Screws – Knurled Thumb Screws

Thumb screws offer easy assembly and adjustment and will not cut fingers.

Vibration-resistant, they stay in place and are knurled for positive grip.

These can be used as an economical alternative for knobs.

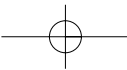
Minimum order: 1,000

Other sizes and lengths available.

| PART NUMBER | SIZE (mm/in) | LENGTH (in/mm) | D (in/mm) |
|-----------------|---------------|----------------|--------------|
| NKTS440X.187 | 4/40 (2.54) | 3/16 (4.76) | .300 (7.62) |
| NKTS440X.250 | 4/40 (2.54) | 1/4 (6.35) | .300 (7.62) |
| NKTS440X.375 | 4/40 (2.54) | 3/8 (9.53) | .300 (7.62) |
| NKTS440X.500 | 4/40 (2.54) | 1/2 (12.7) | .300 (7.62) |
| NKTS440X.750 | 4/40 (2.54) | 3/4 (19.05) | .300 (7.62) |
| NKTS632X.250 | 6/32 (4.76) | 1/4 (6.35) | .360 (9.14) |
| NKTS632X.375 | 6/32 (4.76) | 3/8 (9.53) | .360 (9.14) |
| NKTS632X.500 | 6/32 (4.76) | 1/2 (12.7) | .360 (9.14) |
| NKTS632X.750 | 6/32 (4.76) | 3/4 (19.05) | .360 (9.14) |
| NKTS632X1.000 | 6/32 (4.76) | 1 (25.4) | .360 (9.14) |
| NKTS832X.187 | 8/32 (6.35) | 3/16 (4.76) | .425 (10.8) |
| NKTS832X.375 | 8/32 (6.35) | 3/8 (9.53) | .425 (10.8) |
| NKTS832X.500 | 8/32 (6.35) | 1/2 (12.7) | .425 (10.8) |
| NKTS832X.750 | 8/32 (6.35) | 3/4 (19.05) | .425 (10.8) |
| NKTS832X1.000 | 8/32 (6.35) | 1 (25.4) | .425 (10.8) |
| NKTS1024X.500 | 10/24 (10.58) | 1/2 (12.7) | .425 (10.8) |
| NKTS1024X.750 | 10/24 (10.58) | 3/4 (19.05) | .425 (10.8) |
| NKTS1024X1.000 | 10/24 (10.58) | 1 (25.4) | .425 (10.8) |
| NKTS1024X1.250 | 10/24 (10.58) | 1-1/4 (31.75) | .425 (10.8) |
| NKTS1024X2.000 | 10/24 (10.58) | 2 (50.8) | .425 (10.8) |
| NKTS1032X.375 | 10/32 (7.94) | 3/8 (9.53) | .425 (10.8) |
| NKTS1032X.500 | 10/32 (7.94) | 1/2 (12.7) | .425 (10.8) |
| NKTS1032X.750 | 10/32 (7.94) | 3/4 (19.05) | .425 (10.8) |
| NKTS1032X1.000 | 10/32 (7.94) | 1 (25.4) | .425 (10.8) |
| NKTS1032X1.062 | 10/32 (7.94) | 1-1/16 (26.99) | .425 (10.8) |
| NKTS1032X1.500 | 10/32 (7.94) | 1-1/2 (38.1) | .425 (10.8) |
| NKTS1032X2.000 | 10/32 (7.94) | 2 (50.8) | .425 (10.8) |
| NKTS1420X.500 | 1/4-20 | 1/2 (12.7) | .540 (13.72) |
| NKTS1420X.750 | 1/4-20 | 3/4 (19.05) | .540 (13.72) |
| NKTS1420X1.000 | 1/4-20 | 1 (25.4) | .540 (13.72) |
| NKTS1420X1.250 | 1/4-20 | 1-1/4 (31.75) | .540 (13.72) |
| NKTS1420X1.500 | 1/4-20 | 1-1/2 (38.1) | .540 (13.72) |
| NKTS51618X.500 | 5/16-18 | 1/2 (12.7) | .615 (15.62) |
| NKTS51618X1.000 | 5/16-18 | 1 (25.4) | .615 (15.62) |
| NKTS51618X1.500 | 5/16-18 | 1-1/2 (38.1) | .615 (15.62) |
| NKTS51618X2.000 | 5/16-18 | 2 (50.8) | .615 (15.62) |
| NKTS3816X.500 | 3/8-16 | 1/2 (12.7) | .687 (17.45) |
| NKTS3816X1.000 | 3/8-16 | 1 (25.4) | .687 (17.45) |
| NKTS3816X1.500 | 3/8-16 | 1-1/2 (38.1) | .687 (17.45) |
| NKTS3816X2.000 | 3/8-16 | 2 (50.8) | .687 (17.45) |
| NKTS3816X.500 | 3/8-16 | 1/2 (12.7) | .687 (17.45) |
| NKTS1213X1.000 | 1/2-13 | 1 (25.4) | .750 (19.05) |
| NKTS1213X1.500 | 1/2-13 | 1-1/2 (38.1) | .750 (19.05) |
| NKTS1213X2.000 | 1/2-13 | 2 (50.8) | .750 (19.05) |

Plastic Hardware

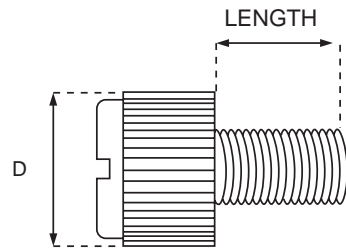
Plastic Hardware



SLOTTED THUMB SCREWS

J14 NYLON THUMB SCREWS - SLOTTED THUMB SCREWS

| PART NUMBER | SIZE (mm/in) | LENGTH (in/mm) | D (in/mm) |
|---------------|---------------|----------------|--------------|
| NTS440X.250 | 4/40 (2.54) | 1/4 (6.35) | .317 (8.05) |
| NTS440X.312 | 4/40 (2.54) | 5/16 (7.94) | .317 (8.05) |
| NTS440X.375 | 4/40 (2.54) | 3/8 (9.53) | .317 (8.05) |
| NTS440X.500 | 4/40 (2.54) | 1/2 (12.7) | .317 (8.05) |
| NTS440X.625 | 4/40 (2.54) | 5/8 (15.88) | .317 (8.05) |
| NTS440X1.000 | 4/40 (2.54) | 1 (25.4) | .317 (8.05) |
| NTS632X.250 | 6/32 (4.76) | 1/4 (6.35) | .348 (8.84) |
| NTS632X.375 | 6/32 (4.76) | 3/8 (9.53) | .348 (8.84) |
| NTS632X.500 | 6/32 (4.76) | 1/2 (12.7) | .348 (8.84) |
| NTS632X.750 | 6/32 (4.76) | 3/4 (19.05) | .348 (8.84) |
| NTS632X1.000 | 6/32 (4.76) | 1 (25.4) | .348 (8.84) |
| NTS832X.250 | 8/32 (6.35) | 1/4 (6.35) | .381 (9.68) |
| NTS832X.375 | 8/32 (6.35) | 3/8 (9.53) | .381 (9.68) |
| NTS832X.500 | 8/32 (6.35) | 1/2 (12.7) | .381 (9.68) |
| NTS832X.625 | 8/32 (6.35) | 5/8 (15.88) | .381 (9.68) |
| NTS832X.750 | 8/32 (6.35) | 3/4 (19.05) | .381 (9.68) |
| NTS832X1.000 | 8/32 (6.35) | 1 (25.4) | .381 (9.68) |
| NTS1024X.250 | 10/24 (10.58) | 1/4 (6.35) | .412 (10.46) |
| NTS1024X.500 | 10/24 (10.58) | 1/2 (12.7) | .412 (10.46) |
| NTS1024X1.000 | 10/24 (10.58) | 1 (25.4) | .412 (10.46) |
| NTS1032X.375 | 10/24 (7.94) | 3/8 (9.53) | .412 (10.46) |
| NTS1032X.500 | 10/32 (7.94) | 1/2 (12.7) | .412 (10.46) |
| NTS1032X.750 | 10/32 (7.94) | 3/4 (19.05) | .412 (10.46) |
| NTS1032X1.000 | 10/32 (7.94) | 1 (25.4) | .412 (10.46) |
| NTS1032X1.250 | 10/32 (7.94) | 1-1/4 (31.75) | .412 (10.46) |
| NTS1032X1.500 | 10/32 (7.94) | 1-1/2 (38.1) | .412 (10.46) |
| NTS1420X.250 | 14-20* | 1/4 (6.35) | .492 (12.5) |
| NTS1420X.500 | 14-20* | 1/2 (12.7) | .492 (12.5) |
| NTS1420X.625 | 14-20* | 3/8 (9.53) | .492 (12.5) |
| NTS1420X.750 | 14-20* | 3/4 (19.05) | .492 (12.5) |
| NTS1420X1.000 | 14-20* | 1 (25.4) | .492 (12.5) |
| NTS1420X1.250 | 14-20* | 1-1/4 (31.75) | .492 (12.5) |
| NTS1420X1.500 | 14-20* | 1-1/2 (38.1) | .492 (12.5) |
| NTS1428X.187 | 14-28 | 3/16 (4.76) | .480 (12.19) |
| NTS1428X.250 | 14-28 | 1/4 (6.35) | .480 (12.19) |
| NTS1428X.375 | 14-28 | 3/8 (9.53) | .480 (12.19) |
| NTS1428X.750 | 14-28 | 3/4 (19.05) | .480 (12.19) |
| NTS1428X1.000 | 14-28 | 1 (25.4) | .480 (12.19) |



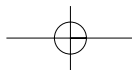
Slotted Thumb Screws

Minimum order: 1,000

Other standard and metric sizes and lengths available.

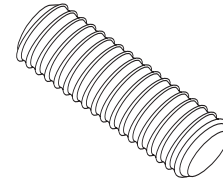
Plastic Hardware

* UNSLOTTED AVAILABLE IN 1/4-20 SIZE ONLY. SUBSTITUTE PREFIX UTS WHEN ORDERING.



THREADED & UNTHREADED RODS**ROD - THREADED AND UNTHREADED****J15**

| PART NUMBER | SIZE (in/mm) |
|-------------|---------------|
| NTR4/40N | 4/40 (2.54) |
| NTR6/32N | 6/32 (4.76) |
| NTR8/32N | 8/32 (6.35) |
| NTR10/24N | 10/24 (10.58) |
| NTR10/32N | 10/32 (7.94) |
| NTR1/4-20N | 1/4-20 |
| NTR5/16-18N | 5/16-18 |
| NTR3/8-16N | 3/8-16 |
| NTR1/2-13N | 1/2-13 |
| NTR5/8-11N | 5/8-11 |
| NTR3/4-10N | 3/4-10 |
| NTR7/8-9N | 7/8-9 |
| NTR1-8N | 1-8 |



SOLD IN 2 FOOT LENGTHS

Nylon Threaded Rod

Use with corresponding nuts for longer length or non-standard bolts. Can be bent with heat to form U-bolts or other shapes.

This versatile threaded rod stock is easily cut to size, resistant to most chemicals, electrically insulating, non-magnetic, lightweight, low thermal conductivity, vibration and abrasion resistant.

Stock length is 2 feet.

Longer lengths up to 8 feet are available on special order.

We can furnish cut to your length with a nominal cutting charge.

Other plastic materials can be furnished on special order, contact the factory.

PVC Threaded Rod

Minimum order: 5 feet. Sold in 5-foot lengths only. Other sizes available.

FRP Threaded Rod

Sold in 4-foot lengths only. Minimums on request. Glass-filled polyphenyl sulphide nuts are available

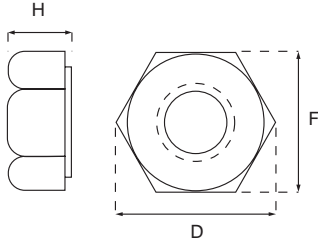
Nylon Unthreaded Rod

Minimum order 10 feet. Sold in 10-foot lengths only.

Plastic Hardware

NYLON HEX NUTS

J16 NYLON NUTS - HEX NUTS (SINGLE CHAMFERED, WASHER FACED)



Nylon Nuts – Hex Nuts (Single chamfered, washer faced)

Especially useful with brittle surfaces such as glass, ceramic or enamel.

Their resilience allows even load distribution, particularly on irregular surfaces.

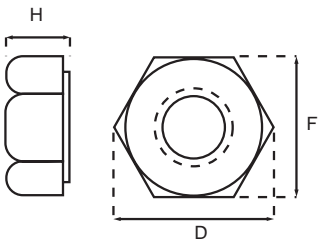
Minimum order: 100

* AVAILABLE IN THINNER HEX JAM NUT

| PART NUMBER | F | D | H |
|-------------|---------------|---------------|--------------|
| NHN2/56 | .180 (4.57) | .205 (5.21) | .070 (1.78) |
| NHN3/48 | .180 (4.57) | .205 (5.21) | .070 (1.78) |
| NHN4/40 | .250 (6.35) | .275 (6.99) | .100 (2.54) |
| NHN6/32 | .305 (7.75) | .350 (8.89) | .120 (3.05) |
| NHN6/40 | .305 (7.75) | .350 (8.89) | .120 (3.05) |
| NHN8/32 | .335 (8.51) | .380 (9.65) | .130 (3.30) |
| NHN10/24 | .365 (9.27) | .420 (10.67) | .135 (3.43) |
| NHN10/32 | .365 (9.27) | .420 (10.67) | .135 (3.43) |
| NHN12/24 | .425 (10.80) | .510 (12.95) | .207 (5.26) |
| NHN1/4-20 | .433 (11.00) | .510 (12.95) | .233 (5.92) |
| NHN1/4-28 | .433 (11.00) | .510 (12.95) | .233 (5.92) |
| NHN5/16-18* | .500 (12.7) | .575 (14.61) | .270 (6.86) |
| NHN5/16-24 | .500 (12.7) | .575 (14.61) | .270 (6.86) |
| NHN3/8-16* | .560 (14.22) | .630 (16.00) | .330 (8.38) |
| NHN3/8-24 | .560 (14.22) | .630 (16.00) | .330 (8.38) |
| NHN3/8-32 | .560 (14.22) | .630 (16.00) | .330 (8.38) |
| NHN7/16-14 | .685 (17.40) | .780 (19.81) | .380 (9.65) |
| NHN7/16-20 | .685 (17.40) | .780 (19.81) | .380 (9.65) |
| NHN1/2-13* | .750 (19.05) | .860 (21.84) | .430 (10.92) |
| NHN1/2-20 | .750 (19.05) | .860 (21.84) | .430 (10.92) |
| NHN5/8-11* | .925 (23.50) | 1.050 (26.68) | .550 (13.97) |
| NHN5/8-18 | .925 (23.50) | 1.050 (26.68) | .550 (13.97) |
| NHN11/16-27 | 1.000 (25.4) | 1.140 (28.96) | .250 (6.35) |
| NHN3/4-10 | 1.100 (27.94) | 1.250 (31.75) | .640 (16.26) |
| NHN7/8-9 | 1.280 (32.51) | 1.480 (37.59) | .750 (19.05) |
| NHN1"-8 | 1.470 (37.34) | 1.700 (43.18) | .870 (22.10) |

Plastic Hardware

METRIC HEX NUTS



Metric Hex Nuts

Minimum order: 1,000

| PART NUMBER | PITCH | F (mm) | D (mm) | H (mm) |
|-------------|-------|--------|--------|--------|
| NLMHN2 | .40 | 3.90 | 4.50 | 1.2 |
| NLMHN2.5 | .45 | 4.960 | 5.60 | 1.8 |
| NLMHN3 | .50 | 5.40 | 6.20 | 2.2 |
| NLMHN3.5 | .60 | 6.90 | 7.90 | 2.7 |
| NLMHN4 | .70 | 6.90 | 7.90 | 3.0 |
| NLMHN5 | .80 | 7.90 | 9.00 | 4.3 |
| NLMHN6 | 1.00 | 10.00 | 11.30 | 5.4 |
| NLMHN8 | 1.25 | 12.90 | 14.70 | 6.4 |
| NLMHN10 | 1.50 | 14.80 | 17.00 | 9.8 |

NYLON HEX NUTS**J17****TECHNICAL DATA FOR NYLON NUTS**

DATA LISTED IS FOR REFERENCE PURPOSES ONLY

| SIZE | TEST NO. 1 TENSILE LBS | TEST NO. 2 ULTIMATE TORQUE | RECOMMENDED TORQUE BEFORE DEFORMATION |
|---------|---------------------------|-------------------------------|--|
| 4/40 | 85 | 2 INCH LBS | 1.5 INCH LBS |
| 6/32 | 135 | 5.2 INCH LBS | 4 INCH LBS |
| 8/32 | 172 | 6.8 INCH LBS | 5 INCH LBS |
| 10/24 | 211 | 7 INCH LBS | 5.5 INCH LBS |
| 10/32 | 276 | 8 INCH LBS | 6.5 INCH LBS |
| 1/4-20 | 311 | 19.3 INCH LBS | 17 INCH LBS |
| 5/16-18 | 877 | 44.3 INCH LBS | 42 INCH LBS |
| 3/8-16 | 994 | 74 INCH LBS | 72 INCH LBS |
| 1/2-13 | 2,367 | 15.7 FOOT LBS | 13 FOOT LBS |
| 5/8-11 | 3,487 | 31.7 FOOT LBS | 30 FOOT LBS |

Nylon Nuts – Technical Data

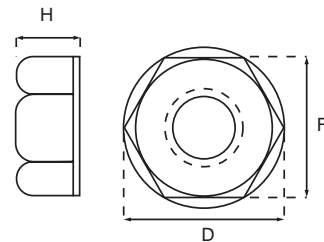
Test No. 1 Pull Test: Nylon Nut on Metal Screw

Test No. 2 Torque: Nylon Nut on Metal Screw

All tests performed per ASTM specifications. Parts moulded in Nylon 6/6 Dupont Zytel 101, dry as moulded, unmoisturized, at 73°F. Results are average of random parts tested.

LOCKING HEX NUTS

| PART NUMBER | F | D | H |
|-------------|--------------|--------------|-------------|
| NLHN2/56 | .180 (4.57) | .205 (5.21) | .140 (3.56) |
| NLHN4/40 | .250 (6.35) | .275 (6.99) | .200 (5.08) |
| NLHN6/32 | .305 (7.75) | .350 (8.89) | .200 (5.08) |
| NLHN8/32 | .335 (8.51) | .380 (9.65) | .230 (5.84) |
| NLHN10/24 | .365 (9.27) | .420 (10.67) | .250 (6.35) |
| NLHN10/32* | .365 (9.27) | .420 (10.67) | .250 (6.35) |
| NLHN1/4-20 | .425 (10.80) | .510 (12.95) | .275 (6.99) |



* ALSO AVAILABLE WITH LH6/32 BODY AND TAPPED 10/32. PART NUMBER IS LH6-10/32.

Locking Hex Nuts

Minimum order: 100

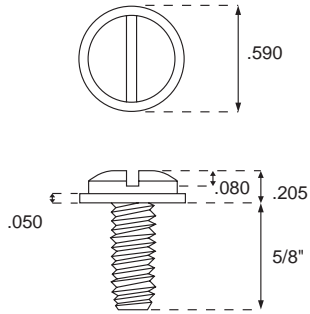
H.B. ETLIN CO. LTD.

FOR MORE INFORMATION CALL
1-800-661-9610 (Canada) 1-888-762-5384 (USA)

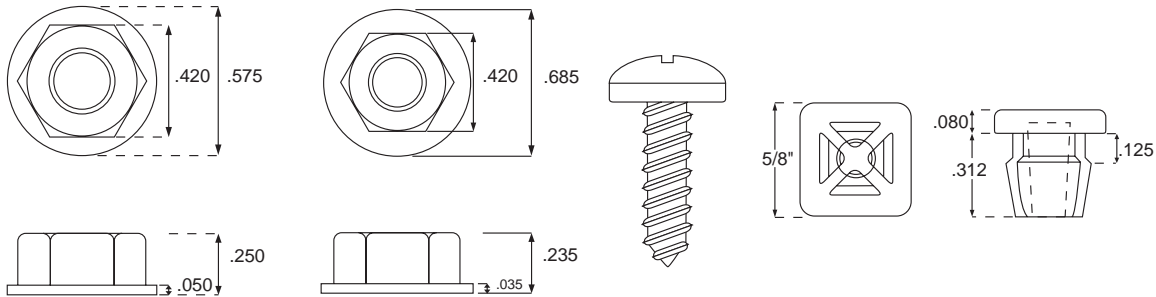
Plastic Hardware

SPECIALTY NYLON HEX & BOLT SETS

J18 NYLON LICENSE PLATE NUT AND BOLT SETS



| PART NUMBER | DESCRIPTION |
|---------------|------------------------------------|
| NLPNB12520062 | STANDARD BOLT |
| NLPNB42520 | STANDARD NUT |
| NLPNB42520S | SPECIAL STANDARD NUT |
| MS11032W06Z | METAL SCREW; 10-32 X 5/8" PHIL PAN |
| 60SGN01010 | GROMMET |
| 60SGN01010LPS | FOUR PIECE SET |



Nylon License Plate Nut and Bolt Sets

Part number **60SGN01010LPS** is a set of deluxe license plate fasteners, packaged in a clear poly bag. The set includes two each of part number **60SGN01010** (grommet) and **011032W062ZP** (zinc plated screw).

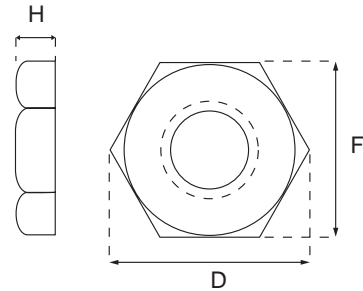
Plastic Hardware

NYLON HEX NUTS

STANDARD JAM NUTS

J19

| PART NUMBER | F | D | H |
|--------------|--------------|--------------|--------------|
| JN5/16-18 | .500 (12.70) | .575 (14.61) | .190 (4.83) |
| JN5/16-24 | .500 (12.70) | .575 (14.61) | .190 (4.83) |
| JN3/8-16 | .500 (12.70) | .575 (14.61) | .125 (3.18) |
| JN3/8-24 | .500 (12.70) | .575 (14.61) | .125 (3.18) |
| JN3/8-32 | .500 (12.70) | .575 (14.61) | .125 (3.18) |
| JN3/8-16SPEC | .670 (17.02) | .760 (19.30) | .219 (5.56) |
| JN7/16-14 | .687 (17.45) | .780 (19.81) | .375 (9.53) |
| JN7/16-20 | .687 (17.45) | .780 (19.81) | .250 (6.35) |
| JN15/32-32 | .625 (15.88) | .720 (18.29) | .125 (3.18) |
| JN1/2-13 | .687 (17.45) | .790 (20.06) | .220 (5.59) |
| JN1/2-24 | .687 (17.45) | .780 (19.81) | .220 (5.59) |
| JN1/2-28 | .660 (16.76) | .755 (19.18) | .125 (3.18) |
| JN9/16-18 | .750 (19.05) | .860 (21.84) | .250 (6.35) |
| JN5/8-11 | .930 (23.62) | 1.07 (27.18) | .375 (9.53) |
| JN5/8-18 | .937 (23.80) | 1.07 (27.18) | .375 (9.53) |
| JN3/4-10 | 1.12 (28.50) | 1.26 (32.00) | .250 (6.35) |
| JN3/4-16 | 1.12 (28.50) | 1.26 (32.00) | .250 (6.35) |
| JN3/4-27 | 1.00 (25.40) | 1.14 (28.96) | .125 (3.18) |
| JN7/8-14 | 1.25 (31.75) | 1.43 (36.32) | .340 (8.64) |
| JN1-8 | 1.48 (37.59) | 1.70 (43.18) | .410 (10.41) |
| JN1/8-27 | .56 (14.22) | .64 (6.26) | .110 (2.79) |
| JN1/4-18NPT | .740 (18.80) | .850 (21.60) | .187 (4.75) |
| JN3/8-18NPT | 1.00 (25.40) | 1.15 (29.21) | .280 (7.11) |
| JN1/2-14NPT | 1.25 (31.75) | 1.43 (36.32) | .340 (8.64) |
| JN3/4-14NPT | 1.48 (37.59) | 1.70 (43.18) | .410 (10.41) |
| JN1/4-18NPS | 1.48 (37.59) | 1.70 (43.18) | .410 (10.41) |
| JN3/8-18NPS | .687 (17.45) | .796 (20.22) | .225 (5.72) |
| JN1/2-14NPS | 1.00 (25.40) | 1.15 (29.21) | .280 (7.11) |
| JN3/4-14NPS | 1.25 (31.75) | 1.43 (36.32) | .340 (8.64) |
| JN3/4-14NPS | 1.48 (37.59) | 1.70 (43.18) | .410 (10.41) |



Standard Jam Nuts

Minimum order: 1,000

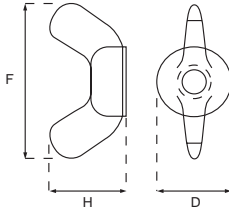
Plastic Hardware

NYLON WING NUTS

J20

WING NUTS

WING NUT



Nylon Wing Nuts

Minimum order: 100

Nylon Deco Wing Nuts, Nylon Locking Deco Wing Nuts

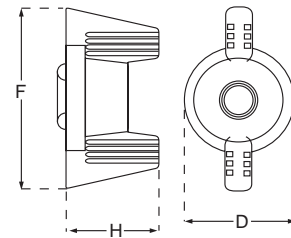
Similar to our standard cap nut, except with a molded-in locking thread. Use for applications which require higher torque, vibration resistance or a more secure assembly.
Minimum order: 100

| PART NUMBER | F | D | H |
|-------------|---------------|--------------|--------------|
| NWN4/40 | .900 (22.86) | .400 (10.16) | .480 (12.19) |
| NWN6/32 | .900 (22.86) | .400 (10.16) | .480 (12.19) |
| NWN8/32 | .900 (22.86) | .400 (10.16) | .480 (12.19) |
| NWN10/24 | .900 (22.86) | .400 (10.16) | .480 (12.19) |
| NWNS10/24 | 1.100 (27.94) | .560 (14.22) | .630 (16.00) |
| NWN10/32 | .900 (22.86) | .400 (10.16) | .480 (12.19) |
| NWNS10/32 | 1.100 (27.94) | .560 (14.22) | .630 (16.00) |
| NWNS1/4-20 | 1.100 (27.94) | .560 (14.22) | .630 (16.00) |
| NWN1/4-20 | 1.360 (34.54) | .650 (16.51) | .700 (17.78) |
| NWNS1/4-28 | 1.100 (27.94) | .560 (14.22) | .630 (16.00) |
| NWN1/4-28 | 1.380 (35.05) | .650 (16.51) | .700 (17.78) |
| NWN5/16-18 | 1.380 (35.05) | .650 (16.51) | .700 (17.78) |
| NWN3/8-16 | 1.380 (35.05) | .650 (16.51) | .700 (17.78) |
| NWN7/16-14 | 1.76 (44.70) | .850 (21.59) | .900 (22.86) |
| NWN1/2-13 | 1.76 (44.70) | .850 (21.59) | .900 (22.86) |
| NWN9/16-12 | 1.76 (44.70) | .850 (21.59) | .900 (22.86) |

NYLON DECO WING NUTS

| PART NUMBER | F | D | H |
|-------------|-----------------|--------------|---------------|
| NDWN4/40 | 5/8 (15.88) | 3/8 (9.53) | 5/16 (7.94) |
| NDWN6/32 | 5/8 (15.88) | 3/8 (9.53) | 5/16 (7.94) |
| NDWN8/32 | 5/8 (15.88) | 3/8 (9.53) | 5/16 (7.94) |
| NDWN10/24 | 7/8 (22.23) | 1/2 (12.70) | 7/16 (11.10) |
| NDWN10/32 | 7/8 (22.23) | 1/2 (12.70) | 7/16 (11.10) |
| NDWN1/4-20 | 1-11/64 (29.74) | 5/8 (15.88) | 17/32 (13.49) |
| NDWN3/8-24 | 1-9/16 (39.67) | 63/64 (25.0) | 29/64 (11.51) |

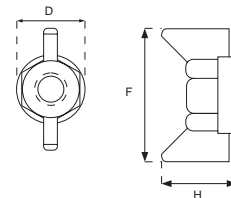
DECO WING NUT



NYLON LOCKING DECO WING NUTS

| PART NUMBER | F | D | H |
|---------------|-----------------|--------------|---------------|
| NLDWN4/40 | 5/8 (15.88) | 3/8 (9.53) | 5/16 (7.94) |
| NLDWN6/32 | 5/8 (15.88) | 3/8 (9.53) | 5/16 (7.94) |
| NLDWN8/32 | 5/8 (15.88) | 3/8 (9.53) | 5/16 (7.94) |
| NLDWN10/24 | 7/8 (22.23) | 1/2 (12.70) | 7/16 (11.10) |
| NLDWN10/32 | 7/8 (22.23) | 1/2 (12.70) | 7/16 (11.10) |
| NLDWN1/4-20 | 1-11/64 (29.74) | 5/8 (15.88) | 17/32 (13.49) |
| NLDWN5/16-18* | 1-9/16 (39.67) | 63/64 (25.0) | 29/64 (11.51) |

LOCKING WING NUT



*PART IS FLUSH ACROSS WINGS

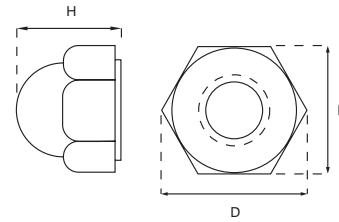
Plastic Hardware

MISCELLANEOUS NYLON NUTS

J21

CAP NUTS

| PART NUMBER | F | D | H |
|-------------|--------------|---------------|--------------|
| CN4/40 | .250 (6.35) | .275 (6.98) | .280 (7.11) |
| CN6/32 | .305 (7.75) | .350 (8.89) | .345 (8.76) |
| CN8/32 | .330 (8.38) | .380 (9.65) | .375 (9.53) |
| CN10/24 | .365 (9.27) | .420 (10.67) | .400 (10.16) |
| CN10/32 | .365 (9.27) | .420 (10.67) | .400 (10.16) |
| CN1/4-20 | .425 (10.80) | .510 (12.95) | .475 (12.07) |
| CN1/4-28 | .425 (10.80) | .510 (12.95) | .475 (12.07) |
| CN5/16-18 | .500 (12.70) | .570 (14.48) | .530 (13.46) |
| CN5/16-24 | .500 (12.70) | .575 (14.61) | .530 (13.46) |
| CN3/8-16 | .560 (14.22) | .645 (16.38) | .620 (15.75) |
| CN3/8-24 | .560 (14.22) | .630 (16.00) | .620 (15.75) |
| CN1/2-13 | .750 (19.05) | .860 (21.84) | .810 (20.57) |
| CN5/8-11 | .935 (23.75) | 1.075 (27.30) | .970 (24.64) |

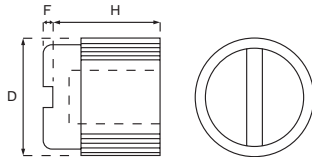


Cap Nuts

Minimum order: 100

SLOTTED THUMB (CAP) NUTS

SLOTTED NUT



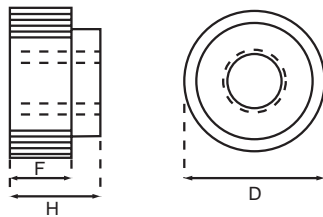
Slotted Thumb (Cap) Nuts

Minimum order: 100

| PART NUMBER | F | D | H |
|-------------|-------------|--------------|---------------|
| NSTN4/40 | .045 (1.14) | .317 (8.05) | .295 (7.49) |
| NSTN6/32 | .051 (1.30) | .348 (8.84) | .334 (8.48) |
| NSTN8/32 | .059 (1.50) | .381 (9.68) | .378 (9.60) |
| NSTN10/24 | .068 (1.73) | .400 (10.16) | .23/64 (9.12) |
| NSTN10/32 | .068 (1.73) | .400 (10.16) | .23/64 (9.12) |
| NSTN1/4-20 | .088 (2.24) | .478 (12.14) | .370 (9.40) |

THROUGH THUMB NUTS

THROUGH NUT



Through Thumb Nuts

Minimum order: 100

| PART NUMBER | F | D | H |
|-------------|-------------|--------------|--------------|
| NTTN4/40 | .120 (3.05) | .300 (7.62) | .280 (7.11) |
| NTTN6/32 | .125 (3.18) | .360 (9.14) | .275 (6.99) |
| NTTN8/32 | .140 (3.56) | .425 (10.80) | .305 (7.75) |
| NTTN10/24 | .140 (3.56) | .425 (10.80) | .325 (8.26) |
| NTTN10/32 | .140 (3.56) | .425 (10.80) | .325 (8.26) |
| NTTN1/4-20 | .155 (3.94) | .540 (13.72) | .365 (9.27) |
| NTTN5/16-18 | .171 (4.34) | .615 (15.62) | .385 (9.78) |
| NTTN3/8-16 | .187 (4.75) | .687 (17.45) | .430 (10.92) |
| NTTN1/2-13 | .203 (5.16) | .750 (19.05) | .468 (11.89) |

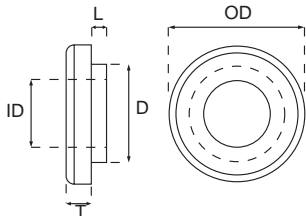
Plastic Hardware



NYLON FINISHING WASHERS

J22

SHOULDER WASHERS - STANDARD NYLON SHOULDER WASHERS



| PART NUMBER | ID | OD | T | D | L |
|-------------|-------------|--------------|-------------|-------------|-------------|
| NSW2 | .093 (2.36) | .250 (6.35) | .040 (1.02) | .156 (3.96) | .040 (1.02) |
| NSW4 | .122 (3.09) | .281 (7.14) | .040 (1.02) | .187 (4.75) | .040 (1.02) |
| NSW6 | .146 (3.71) | .328 (8.33) | .040 (1.02) | .218 (5.54) | .040 (1.02) |
| NSW8 | .174 (4.42) | .375 (9.53) | .050 (1.27) | .250 (6.35) | .050 (1.27) |
| NSW10 | .201 (5.11) | .437 (11.10) | .050 (1.27) | .281 (7.14) | .050 (1.27) |
| NSW1/4 | .260 (6.60) | .562 (14.27) | .060 (1.52) | .375 (9.53) | .060 (1.52) |
| NSW3/8 | .385 (9.78) | .750 (19.05) | .060 (1.52) | .500 (12.7) | .060 (1.52) |

NYLON SHOULDER WASHERS

Shoulder Washers and Screw Insulators – Standard Nylon Shoulder Washers

Minimum order: 1,000

Special Nylon Shoulder Washers and Screw Insulators

Tolerances all dimensions ± 0.015

Suitable for a variety of insulation and mechanical applications.

They seal, reduce vibration, act as spacers, guides, bushings and bearings. Isolate metal screws electrically and reduce corrosion.

They can also be used as light load bearings in many applications. Shoulder washers are shown with prefix NSW.

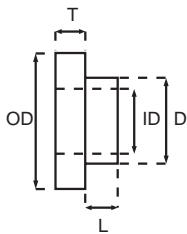
Screw insulators are for standard screw sizes (#2 up to 1/4) and are shown with the prefix SC.

Shoulder washers can often be interchanged with screw insulators, but they tend to have a shorter shank (L dimension).

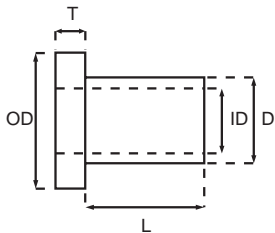
Custom sizes can be tooled for moulding.

Please specify size, quantity and tolerances when requesting a quote.

Minimum order: 1,000

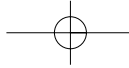


SHOULDER WASHER



SCREW INSULATOR

Plastic Hardware

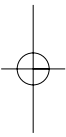
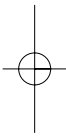


NYLON SHOULDER WASHERS

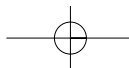
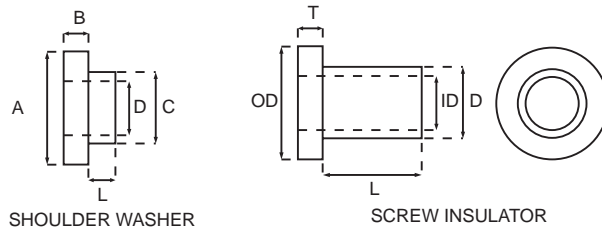
NYLON SHOULDER WASHERS

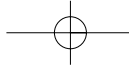
J23

| PART NUMBER | L | A | B | C | D |
|-------------|---------------|-------------|--------------|-------------|-------------|
| NSW0152 | 3/64 (1.19) | .105 (2.67) | 3/64 (1.19) | .084 (2.13) | .061 (1.55) |
| NSW0155 | .060 (1.52) | .125 (3.18) | .030 (0.76) | .080 (2.03) | .055 (1.40) |
| NSW0156 | 1/32 (0.79) | .228 (5.79) | 1/32 (0.79) | .122 (3.10) | .093 (2.36) |
| NSW0157 | .035 (0.89) | .235 (5.97) | .095 (2.41) | .147 (3.73) | .115 (2.92) |
| NSW0180 | .075 (1.91) | .181 (4.60) | 3/64 (1.19) | .120 (3.05) | .045 (1.14) |
| NSW0182 | 1/32 (0.79) | .182 (4.75) | 1/16 (1.59) | .131 (3.33) | .085 (2.16) |
| NSW0183 | 1/32 (0.79) | .182 (4.75) | 5/64 (1.98) | .125 (3.18) | .085 (2.16) |
| NSW0184 | 1/32 (0.79) | .189 (4.80) | 1/16 (1.59) | .119 (3.02) | .095 (2.41) |
| NSW0187 | 1/64 (0.41) | .187 (4.75) | 1/32 (0.79) | .119 (3.02) | .089 (2.26) |
| NSW0188 | .030 (0.76) | .187 (4.75) | .030 (0.76) | .131 (3.33) | .090 (2.29) |
| NSW0190 | 9/32 (7.14) | .197 (5.00) | 1/32 (0.79) | .118 (3.00) | .075 (1.91) |
| NSW0191 | .100 (2.54) | .350 (8.89) | .090 (2.29) | .200 (5.08) | .140 (3.56) |
| NSW0195 | 1/16 (1.59) | .195 (4.95) | 1/32 (0.79) | .120 (3.05) | .093 (2.36) |
| NSW0196 | 3/64 (1.19) | .240 (6.09) | 1/16 (1.59) | .135 (3.42) | .114 (2.89) |
| NSW0197 | 1/32 (0.79) | .216 (5.48) | 3/64 (1.19) | .135 (3.42) | .115 (2.92) |
| NSW0198 | 1/32 (0.79) | .200 (5.08) | 1/32 (0.79) | .140 (3.56) | .115 (2.92) |
| NSW0199 | 5/64 (1.98) | .187 (4.75) | 1/32 (0.79) | .119 (3.02) | .063 (1.60) |
| NSW0200 | 1/32 (0.79) | .200 (5.08) | 5/64 (1.98) | .135 (3.43) | .116 (2.95) |
| NSW0201 | 3/16 (4.76) | .187 (4.75) | 1/32 (0.79) | .119 (3.02) | .063 (1.60) |
| NSW0202 | 5/64 (1.98) | .205 (5.21) | 1/32 (0.79) | .125 (3.18) | .093 (2.36) |
| NSW0203 | 7/64 (2.77) | .205 (5.21) | 1/32 (0.79) | .125 (3.18) | .093 (2.36) |
| NSW0204 | 3/16 (4.76) | .205 (5.21) | 1/32 (0.79) | .125 (3.18) | .093 (2.36) |
| NSW0205 | 3/64 (1.19) | .202 (5.13) | 1/64 (0.41) | .145 (3.68) | .120 (3.05) |
| NSW0206 | 1/16 (1.59) | .224 (5.69) | 1/32 (0.79) | .154 (3.91) | .120 (3.05) |
| NSW0207 | 5/32 (3.97) | .235 (5.97) | 3/64 (1.19) | .135 (3.43) | .110 (2.79) |
| NSW0208 | 1/16 (1.59) | .200 (5.08) | 1/32 (0.79) | .120 (3.05) | .093 (2.36) |
| NSW0209 | 3/64 (1.19) | .210 (5.33) | 1/64 (0.41) | .145 (3.68) | .120 (3.05) |
| NSW0210 | 3/64 (1.19) | .230 (5.84) | 1/64 (0.41) | .142 (3.61) | .122 (3.10) |
| NSW0211 | 1/32 (0.79) | .218 (5.54) | 3/64 (1.19) | .135 (3.43) | .115 (2.92) |
| NSW0212 | 7/16 (11.11) | .224 (5.69) | 1/32 (0.79) | .154 (3.91) | .120 (3.05) |
| NSW0213 | 3/64 (1.19) | .200 (5.08) | 1/32 (0.79) | .138 (3.51) | .109 (2.77) |
| NSW0214 | 1/32 (0.79) | .235 (5.97) | 3/64 (1.19) | .137 (3.48) | .115 (2.92) |
| NSW0215 | 7/32 (5.55) | .250 (6.35) | 11/64 (4.37) | .150 (3.81) | .115 (2.92) |
| NSW0216 | 1/32 (0.79) | .240 (6.10) | 1/32 (0.79) | .150 (3.81) | .098 (2.49) |
| NSW0217 | 1/32 (0.79) | .228 (5.79) | 3/64 (1.19) | .138 (3.51) | .100 (2.54) |
| NSW0218 | 1/8 (3.18) | .242 (6.15) | 3/64 (1.19) | .140 (3.56) | .115 (2.92) |
| NSW0219 | 1/8 (3.18) | .290 (7.37) | 1/64 (0.41) | .250 (6.35) | .193 (4.90) |
| NSW0220 | 3/64 (1.19) | .234 (5.94) | 3/64 (1.19) | .147 (3.73) | .115 (2.92) |
| NSW0221 | 3/32 (2.38) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSW0222 | 1/8 (3.18) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSW0223 | 1/32 (0.79) | .250 (6.35) | 1/16 (1.59) | .187 (4.75) | .140 (3.56) |
| NSW0224 | 3/64 (1.19) | .260 (6.60) | 1/16 (1.59) | .190 (4.83) | .140 (3.56) |
| NSW0225 | 43/64 (17.02) | .250 (6.35) | 3/64 (1.19) | .187 (4.75) | .095 (2.41) |
| NSW0226 | 1/16 (1.59) | .250 (6.35) | 1/32 (0.79) | .143 (3.63) | .118 (3.00) |
| NSW0227 | 1/32 (0.79) | .257 (6.53) | 1/16 (1.59) | .187 (4.75) | .141 (3.58) |
| NSW0228 | 1/64 (0.41) | .260 (6.60) | 1/64 (0.41) | .154 (3.91) | .095 (2.41) |
| NSW0229 | 1/8 (3.18) | .250 (6.35) | 3/64 (1.19) | .139 (3.53) | .118 (3.00) |



Plastic Hardware





Plastic Hardware

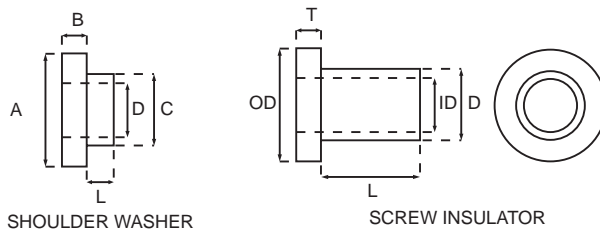
NYLON SHOULDER WASHERS

J24

NYLON SHOULDER WASHERS

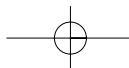
| PART NUMBER | L | A | B | C | D |
|-------------|--------------|--------------|-------------|--------------|-------------|
| NSW0230 | 5/32 (3.97) | .265 (6.73) | 1/32 (0.79) | .205 (5.21) | .142 (3.61) |
| NSW0232 | 5/64 (1.98) | .253 (6.42) | 3/64 (1.19) | .136 (3.45) | .120 (3.05) |
| NSW0233 | 1/32 (0.79) | .203 (5.16) | 3/64 (1.19) | .140 (3.56) | .115 (2.92) |
| NSW0234 | .050 (1.40) | .239 (6.07) | .020 (0.51) | .139 (3.53) | .116 (2.95) |
| NSW0235 | .033 (0.84) | .210 (5.33) | .042 (1.07) | .143 (3.63) | .116 (2.95) |
| NSW0236 | .020 (0.51) | .250 (6.35) | .030 (0.76) | .150 (3.81) | .116 (2.95) |
| NSW0237 | .040 (1.02) | .235 (5.97) | .047 (1.19) | .147 (3.73) | .115 (2.92) |
| NSW0238 | .030 (0.76) | .230 (5.84) | .040 (1.02) | .150 (3.81) | .125 (3.18) |
| NSW0239 | .090 (2.29) | .224 (5.69) | .028 (0.71) | .154 (3.91) | .120 (3.05) |
| NSW0240 | .100 (2.54) | .230 (5.84) | .025 (0.64) | .190 (4.83) | .150 (3.81) |
| NSW0241 | .155 (3.94) | .224 (5.69) | .028 (0.71) | .154 (3.91) | .120 (3.05) |
| NSW0242 | 3/32 (2.38) | .635 (16.13) | 9/64 (3.57) | .425 (10.80) | .201 (5.11) |
| NSW0243 | .063 (1.60) | .1564 (5.94) | .025 (0.64) | .164 (4.17) | .130 (3.30) |
| NSW0244 | .031 (0.79) | .234 (5.94) | .025 (0.64) | .145 (3.68) | .115 (2.92) |
| NSW0250 | .156 (3.96) | .265 (6.73) | .118 (3.00) | .205 (5.21) | .142 (3.61) |
| NSW0255 | 1/8 (2.94) | .500 (12.70) | 1/8 (2.94) | .375 (9.53) | .285 (7.14) |
| NSW0290 | 1/32 (0.79) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSW0291 | .375 (9.53) | .290 (7.37) | .234 (5.94) | .170 (4.32) | .140 (3.56) |
| NSW0296 | .375 (9.53) | .499 (12.67) | .125 (3.18) | .295 (7.49) | .187 (4.75) |
| NSW0300 | .090 (2.29) | .250 (6.35) | .050 (1.27) | .150 (3.81) | .120 (3.05) |
| NSW0305 | .120 (3.05) | .250 (6.35) | .050 (1.27) | .135 (3.43) | .118 (3.00) |
| NSW0310 | .250 (6.35) | .250 (6.35) | .047 (1.19) | .156 (3.96) | .125 (3.18) |
| NSW0395 | .025 (0.64) | .250 (6.35) | .031 (0.79) | .122 (3.10) | .093 (2.36) |
| NSW0396 | .040 (1.02) | .250 (6.35) | .047 (1.19) | .140 (3.56) | .102 (2.59) |
| NSW0400 | 3/32 (2.38) | .235 (5.97) | 3/64 (1.19) | .140 (3.56) | .115 (2.92) |
| NSW0401 | 1/4 (6.35) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSW0402 | 3/64 (1.19) | .240 (6.09) | 1/16 (1.59) | .138 (3.50) | .114 (2.89) |
| NSW0403 | 1/16 (1.59) | .312 (7.93) | 1/16 (1.59) | .149 (3.79) | .115 (2.92) |
| NSW0404 | 3/32 (2.38) | .312 (7.93) | 1/16 (1.59) | .149 (3.79) | .115 (2.92) |
| NSW0405 | 1/64 (0.41) | .250 (6.35) | 3/64 (1.19) | .124 (3.15) | .111 (2.82) |
| NSW0406 | 1/32 (0.79) | .252 (6.40) | 1/32 (0.79) | .186 (4.72) | .140 (3.56) |
| NSW0407 | 1/32 (0.79) | .250 (6.35) | 1/32 (0.79) | .186 (4.72) | .139 (3.53) |
| NSW0408 | .250 (6.35) | .235 (5.97) | .032 (0.81) | .120 (3.05) | .090 (2.29) |
| NSW0409 | 1/8 (3.18) | .250 (6.35) | 1/32 (0.79) | .195 (4.95) | .130 (3.30) |
| NSW0410 | 1/32 (0.79) | .250 (6.35) | 3/64 (1.19) | .144 (2.90) | .100 (2.54) |
| NSW0411 | 1/16 (1.59) | .250 (6.35) | 1/32 (0.79) | .143 (3.63) | .115 (2.92) |
| NSW0412 | 1/16 (1.59) | .250 (6.35) | 1/32 (0.79) | .169 (4.29) | .102 (2.59) |
| NSW0413 | 3/32 (2.38) | .250 (6.35) | 3/64 (1.19) | .114 (2.90) | .100 (2.54) |
| NSW0414 | 1/8 (3.18) | .281 (7.14) | 3/32 (2.38) | .158 (4.01) | .093 (2.36) |
| NSW0415 | 3/16 (4.76) | .293 (7.44) | 3/64 (1.19) | .218 (5.53) | .138 (3.51) |
| NSW0416 | 11/64 (4.37) | .250 (6.35) | 3/64 (1.19) | .186 (4.72) | .126 (3.20) |
| NSW0417 | 1/64 (0.41) | .310 (7.87) | 1/16 (1.59) | .183 (4.65) | .139 (3.53) |
| NSW0418 | 1/64 (0.41) | .312 (7.93) | 1/16 (1.59) | .187 (4.75) | .115 (2.92) |
| NSW0419 | 1/32 (0.79) | .312 (7.93) | 1/32 (0.79) | .185 (4.70) | .140 (3.56) |
| NSW0420 | 1/16 (1.59) | .312 (7.93) | 1/16 (1.59) | .170 (4.32) | .120 (3.05) |
| NSW0421 | 3/64 (1.19) | .312 (7.93) | 1/16 (1.59) | .170 (4.32) | .127 (3.23) |
| NSW0422 | 1/8 (3.18) | .312 (7.93) | 3/64 (1.19) | .234 (5.94) | .144 (3.66) |

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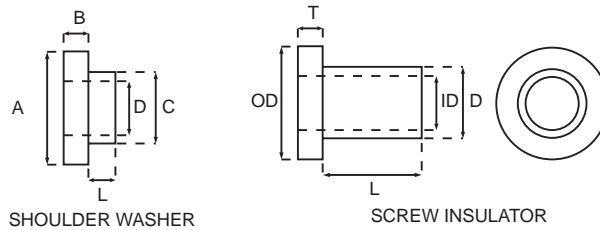
NYLON SHOULDER WASHERS

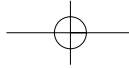
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NYLON SHOULDER WASHERS

| PART NUMBER | L | A | B | C | D |
|-------------|--------------|-------------|-------------|-------------|-------------|
| NSW0423 | 1/64 (0.41) | .250 (6.35) | 1/32 (0.79) | .150 (3.81) | .116 (2.95) |
| NSW0424 | 7/32 (5.55) | .295 (7.49) | 1/32 (0.79) | .234 (5.94) | .140 (3.56) |
| NSW0425 | 1/32 (0.79) | .312 (7.93) | 1/16 (1.59) | .250 (6.35) | .196 (4.98) |
| NSW0426 | 11/64 (4.37) | .250 (6.35) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSW0427 | 3/64 (1.19) | .250 (6.35) | 1/32 (0.79) | .185 (4.70) | .116 (2.95) |
| NSW0428 | 7/64 (2.77) | .242 (6.15) | 3/64 (1.19) | .140 (3.56) | .115 (2.92) |
| NSW0429 | 9/64 (3.58) | .250 (6.35) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSW0430 | 3/16 (4.76) | .312 (7.93) | 1/16 (1.59) | .250 (6.35) | .156 (3.96) |
| NSW0431 | 3/32 (2.38) | .240 (6.10) | 1/32 (0.79) | .185 (4.70) | .125 (3.18) |
| NSW0432 | 3/64 (1.19) | .250 (6.35) | 3/64 (1.19) | .143 (3.63) | .113 (2.87) |
| NSW0433 | 7/64 (2.77) | .250 (6.35) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSW0434 | 1/16 (1.59) | .312 (7.93) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSW0435 | 3/64 (1.19) | .250 (6.35) | 1/16 (1.59) | .185 (4.70) | .116 (2.95) |
| NSW0436 | 1/32 (0.79) | .240 (6.10) | 3/64 (1.19) | .139 (3.53) | .115 (2.92) |
| NSW0437 | 1/32 (0.79) | .265 (6.73) | 1/32 (0.79) | .157 (3.99) | .126 (3.20) |
| NSW0438 | 1/32 (0.79) | .312 (7.93) | 1/16 (1.59) | .187 (4.75) | .141 (3.58) |
| NSW0439 | 1/16 (1.59) | .250 (6.35) | 3/64 (1.19) | .138 (3.50) | .120 (3.05) |
| NSW0440 | 5/16 (7.94) | .312 (7.93) | 1/32 (0.79) | .154 (3.91) | .130 (3.30) |
| NSW0441 | 3/16 (4.76) | .312 (7.93) | 1/32 (0.79) | .234 (5.94) | .184 (4.67) |
| NSW0442 | 7/32 (5.54) | .296 (7.52) | 1/32 (0.79) | .235 (5.97) | .135 (3.43) |
| NSW0443 | .156 (3.96) | .252 (6.40) | .047 (1.19) | .140 (3.56) | .115 (2.92) |
| NSW0444 | 1/16 (1.59) | .300 (7.62) | 3/64 (1.19) | .194 (4.93) | .160 (4.06) |
| NSW0445 | 1/32 (0.79) | .313 (7.95) | 1/32 (0.79) | .175 (4.45) | .143 (3.63) |
| NSW0446 | 1/64 (0.41) | .312 (7.93) | 3/64 (1.19) | .160 (4.06) | .097 (2.46) |
| NSW0448 | 3/32 (2.38) | .312 (7.93) | 3/64 (1.19) | .187 (4.75) | .128 (3.25) |
| NSW0449 | 1/32 (0.79) | .313 (7.95) | 1/32 (0.79) | .219 (5.56) | .124 (3.15) |
| NSW0450 | 1/16 (1.59) | .312 (7.93) | 3/64 (1.19) | .234 (5.94) | .144 (3.66) |
| NSW0451 | 1/32 (0.79) | .315 (8.00) | .030 (0.76) | .150 (3.81) | .115 (2.92) |
| NSW0452 | 1/32 (0.79) | .312 (7.93) | 3/64 (1.19) | .203 (5.16) | .120 (3.05) |
| NSW0453 | .027 (0.69) | .312 (7.93) | .035 (0.89) | .187 (4.75) | .140 (3.56) |
| NSW0454 | 1/32 (0.79) | .313 (7.95) | 1/32 (0.79) | .219 (5.56) | .136 (3.45) |
| NSW0455 | 3/64 (1.19) | .312 (7.93) | 1/32 (0.79) | .185 (4.70) | .126 (3.20) |
| NSW0456 | 3/64 (1.19) | .250 (6.35) | 3/64 (1.19) | .156 (3.96) | .115 (2.92) |
| NSW0457 | .031 (0.79) | .250 (6.35) | .031 (0.79) | .187 (4.75) | .120 (3.05) |
| NSW0459 | 15/64 (5.94) | .291 (7.39) | 1/16 (1.59) | .154 (3.91) | .120 (3.05) |
| NSW0460 | .125 (3.18) | .290 (7.37) | .047 (1.19) | .170 (4.32) | .140 (3.56) |
| NSW0462 | .031 (0.79) | .312 (7.93) | .063 (1.60) | .187 (4.75) | .123 (3.12) |
| NSW0463 | .050 (1.27) | .312 (7.93) | .046 (1.17) | .229 (5.82) | .163 (4.13) |
| NSW0464 | 19/64 (7.52) | .250 (6.35) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSW0465 | .060 (1.52) | .312 (7.93) | .030 (0.76) | .189 (4.80) | .144 (3.66) |
| NSW0467 | .062 (1.57) | .312 (7.93) | .063 (1.60) | .126 (3.20) | .091 (0.23) |
| NSW0468 | .250 (6.35) | .312 (7.93) | .060 (1.52) | .210 (5.33) | .142 (3.61) |
| NSW0470 | .165 (0.79) | .290 (7.37) | .047 (1.19) | .200 (5.08) | .145 (3.68) |
| NSW0475 | .100 (2.54) | .312 (7.93) | .045 (1.14) | .150 (3.81) | .114 (2.90) |
| NSW0601 | 1/4 (6.35) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSW0602 | 1/32 (0.79) | .330 (8.38) | 1/16 (1.59) | .206 (5.23) | .141 (3.58) |
| NSW0603 | .062 (1.57) | .300 (7.62) | .050 (1.27) | .180 (4.57) | .150 (3.81) |

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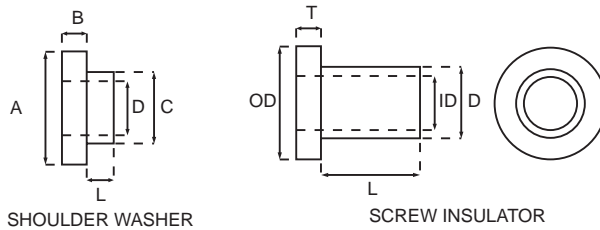
NYLON SHOULDER WASHERS

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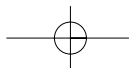
| PART NUMBER | L | A | B | C | D |
|-------------|---------------|--------------|-------------|-------------|-------------|
| NSW0605 | 3/64 (1.19) | .328 (8.33) | 3/64 (1.19) | .218 (5.54) | .146 (3.71) |
| NSW0606 | 3/64 (1.19) | .340 (8.64) | 5/64 (1.98) | .250 (6.35) | .140 (3.56) |
| NSW0607 | 1/16 (1.59) | .289 (7.34) | 1/16 (1.59) | .215 (5.46) | .093 (2.36) |
| NSW0608 | 3/64 (1.19) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSW0609 | 3/64 (1.19) | .312 (7.93) | 1/32 (0.79) | .185 (4.70) | .116 (2.95) |
| NSW0610 | 1/16 (1.59) | .348 (8.83) | 1/32 (0.79) | .290 (7.36) | .256 (6.50) |
| NSW0612 | 3/32 (2.38) | .316 (8.03) | 3/64 (1.19) | .158 (4.01) | .116 (2.95) |
| NSW0614 | 1/32 (0.79) | .324 (8.23) | 1/16 (1.59) | .204 (5.18) | .140 (3.56) |
| NSW0615 | .065 (1.65) | .320 (8.13) | .050 (1.27) | .182 (4.62) | .141 (3.58) |
| NSW0621 | 3/32 (2.38) | .340 (8.64) | 1/16 (1.59) | .220 (5.59) | .175 (4.45) |
| NSW0628 | 3/8 (9.53) | .345 (8.76) | 1/16 (1.59) | .205 (5.21) | .173 (4.39) |
| NSW0629 | 3/64 (1.19) | .345 (8.76) | 1/16 (1.59) | .209 (5.30) | .171 (4.34) |
| NSW0630 | 13/64 (5.16) | .368 (9.34) | 5/64 (1.98) | .146 (3.70) | .115 (2.92) |
| NSW0632 | 1/16 (1.59) | .349 (8.87) | 3/64 (1.19) | .248 (6.30) | .140 (3.56) |
| NSW0633 | .060 (1.52) | .349 (8.87) | .050 (1.27) | .260 (6.60) | .133 (3.38) |
| NSW0634 | 11/64 (4.37) | .350 (8.89) | 1/64 (0.41) | .300 (7.62) | .112 (2.84) |
| NSW0798 | .080 (2.03) | .344 (8.74) | .063 (1.60) | .235 (5.97) | .175 (4.45) |
| NSW0799 | 3/64 (1.19) | .344 (8.74) | 7/64 (2.77) | .189 (4.80) | .141 (3.58) |
| NSW0800 | 9/64 (3.58) | .344 (8.74) | 1/16 (1.59) | .210 (5.33) | .170 (4.32) |
| NSW0801 | 3/8 (9.53) | .344 (8.74) | 1/16 (1.59) | .205 (5.21) | .173 (4.39) |
| NSW0802 | 1/16 (1.59) | .375 (9.53) | 1/32 (0.79) | .195 (4.95) | .171 (4.34) |
| NSW0803 | 13/32 (10.32) | .510 (12.95) | 1/16 (1.59) | .250 (6.35) | .171 (4.34) |
| NSW0804 | .177 (4.50) | .355 (9.02) | .020 (0.51) | .315 (8.00) | .236 (5.99) |
| NSW0805 | .283 (7.19) | .370 (9.40) | .067 (1.70) | .242 (6.15) | .195 (4.95) |
| NSW0806 | .250 (6.35) | .344 (8.74) | .032 (0.81) | .205 (5.21) | .173 (4.39) |
| NSW0807 | .046 (1.17) | .359 (9.12) | .060 (1.52) | .300 (7.62) | .227 (5.77) |
| NSW0808 | 1/8 (3.18) | .375 (9.53) | 1/16 (1.59) | .280 (7.11) | .201 (5.10) |
| NSW0809 | 5/32 (3.97) | .378 (9.60) | 5/64 (1.98) | .194 (4.92) | .116 (2.95) |
| NSW0810 | 1/32 (0.79) | .375 (9.53) | 1/16 (1.59) | .250 (6.35) | .171 (4.34) |
| NSW0811 | 3/64 (1.19) | .375 (9.53) | 3/64 (1.19) | .245 (6.22) | .192 (4.88) |
| NSW0812 | 3/32 (2.38) | .375 (9.53) | 1/32 (0.79) | .260 (6.60) | .220 (5.59) |
| NSW0813 | 7/64 (2.77) | .375 (9.53) | 3/64 (1.19) | .195 (4.95) | .136 (3.45) |
| NSW0814 | 3/64 (1.19) | .375 (9.53) | 5/64 (1.98) | .244 (6.20) | .150 (3.81) |
| NSW0815 | 3/32 (2.38) | .375 (9.53) | 1/32 (0.79) | .185 (4.70) | .140 (3.56) |
| NSW0816 | 1/32 (0.79) | .375 (9.53) | 1/32 (0.79) | .250 (6.35) | .169 (4.29) |
| NSW0817 | 3/64 (1.19) | .375 (9.53) | 1/16 (1.59) | .218 (5.54) | .140 (3.56) |
| NSW0818 | 1/32 (0.79) | .375 (9.53) | 1/16 (1.59) | .246 (6.25) | .167 (4.24) |
| NSW0819 | 1/16 (1.59) | .437 (11.10) | 1/16 (1.59) | .313 (7.95) | .188 (4.78) |
| NSW0820 | 1/32 (0.79) | .375 (9.53) | 1/16 (1.59) | .185 (4.70) | .140 (3.56) |
| NSW0821 | 1/32 (0.79) | .381 (9.68) | 1/16 (1.59) | .308 (7.82) | .196 (4.98) |
| NSW0822 | 1/32 (0.79) | .374 (9.50) | 1/32 (0.79) | .246 (6.25) | .141 (3.58) |
| NSW0823 | .099 (2.51) | .375 (9.53) | .040 (1.02) | .250 (6.35) | .171 (4.34) |
| NSW0824 | .050 (1.27) | .378 (9.53) | .060 (1.52) | .245 (6.22) | .140 (3.56) |
| NSW0825 | .060 (1.52) | .375 (9.53) | .030 (0.76) | .245 (6.22) | .145 (3.68) |
| NSW0826 | .062 (1.57) | .500 (12.70) | 1/16 (1.59) | .308 (7.82) | .196 (4.98) |
| NSW0827 | .046 (1.17) | .375 (9.53) | .040 (1.02) | .250 (6.35) | .171 (4.34) |
| NSW0828 | .125 (3.18) | .380 (9.65) | .065 (1.65) | .254 (6.45) | .196 (4.98) |

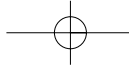
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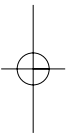
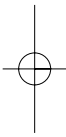
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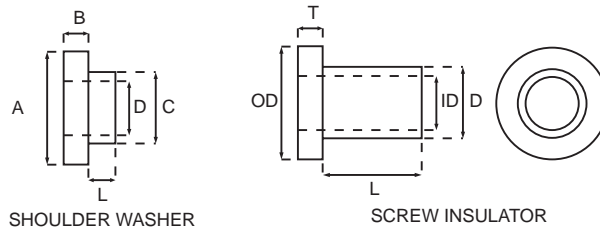
NYLON SHOULDER WASHERS

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| PART NUMBER | L | A | B | C | D |
|-------------|--------------|----------------|-------------|-------------|-------------|
| NSW0829 | 1/8 (3.18) | .370 (9.40) | .110 (2.79) | .307 (7.80) | .255 (6.48) |
| NSW0830 | .032 (0.81) | .375 (9.53) | .062 (1.57) | .187 (4.75) | .147 (3.73) |
| NSW0831 | .250 (6.35) | .375 (9.53) | .040 (1.02) | .250 (6.35) | .171 (4.34) |
| NSW0832 | .043 (1.09) | .375 (9.53) | .035 (0.76) | .257 (6.53) | .193 (4.90) |
| NSW0833 | .050 (1.27) | .375 (9.53) | .031 (0.79) | .243 (6.17) | .199 (5.05) |
| NSW0835 | .050 (1.27) | .377 (9.58) | .050 (1.27) | .245 (6.22) | .155 (3.94) |
| NSW0837 | .031 (0.79) | .375 (9.53) | .062 (1.57) | .187 (4.75) | .093 (2.36) |
| NSW0839 | .050 (1.27) | .385 (9.78) | .030 (0.76) | .250 (6.35) | .169 (4.29) |
| NSW0840 | 13/64 (5.16) | .370 (9.40) | 5/64 (1.98) | .145 (3.68) | .115 (2.92) |
| NSW0842 | 5/64 (1.98) | .375 (9.53) | 7/32 (5.55) | .199 (5.05) | .140 (3.56) |
| NSW0844 | 3/64 (1.19) | .381 (9.68) | 1/16 (1.59) | .185 (4.70) | .140 (3.56) |
| NSW0846 | 1/16 (1.59) | .375 (9.53) | 3/32 (2.38) | .250 (6.35) | .140 (3.56) |
| NSW0847 | .213 (5.14) | .375 (9.53) | 1/16 (1.59) | .250 (6.35) | .197 (5.00) |
| NSW0848 | 1/32 (0.79) | .385 (9.78) | 1/16 (1.59) | .240 (6.10) | .145 (3.68) |
| NSW0850 | 1/16 (1.59) | .375 (9.53) | 3/32 (2.38) | .250 (6.35) | .138 (3.51) |
| NSW0852 | 3/32 (2.38) | .375 (9.53) | 1/16 (1.59) | .248 (6.30) | .136 (3.45) |
| NSW0854 | 3/64 (1.19) | .375 (9.53) | 1/16 (1.59) | .240 (6.10) | .194 (4.93) |
| NSW0855 | 7/64 (2.77) | .375 (9.53) | 1/16 (1.59) | .240 (6.10) | .138 (3.51) |
| NSW0856 | 3/32 (2.38) | .375 (9.53) | 1/64 (0.41) | .185 (4.70) | .140 (3.56) |
| NSW0857 | 5/32 (3.97) | .375 (9.53) | 5/64 (1.98) | .193 (4.90) | .116 (2.95) |
| NSW0858 | 1/16 (1.59) | .375 (9.53) | 1/16 (1.59) | .250 (6.35) | .145 (3.68) |
| NSW0859 | 9/64 (3.58) | .375 (9.53) | 1/32 (0.79) | .245 (6.22) | .187 (4.75) |
| NSW0860 | 13/64 (5.16) | .380 (9.65) | 1/16 (1.59) | .220 (5.59) | .148 (3.76) |
| NSW0861 | 1/8 (3.18) | .378 (9.60) | 1/32 (0.79) | .255 (6.48) | .116 (2.95) |
| NSW0862 | 3/16 (4.76) | .390 (9.91) | 5/64 (1.98) | .287 (7.29) | .196 (4.98) |
| NSW0863 | 5/64 (1.98) | .390 (9.91) | 5/64 (1.98) | .313 (7.95) | .203 (5.16) |
| NSW0864 | 7/64 (2.77) | .395 (10.03) | 5/64 (1.98) | .299 (7.59) | .230 (5.84) |
| NSW0865 | .055 (1.44) | .380 (9.65) | .065 (1.65) | .254 (6.45) | .196 (4.98) |
| NSW0867 | .046 (1.17) | .375 (9.53) | .040 (1.02) | .214 (5.44) | .141 (3.58) |
| NSW0868 | .031 (0.79) | .375 (9.53) | .062 (1.57) | .312 (7.92) | .253 (6.43) |
| NSW0869 | .207 (5.26) | .390 (9.91) | .062 (1.57) | .348 (8.84) | .312 (7.92) |
| NSW0870 | 1/8 (3.18) | .433 (10.99) | 1/16 (1.59) | .312 (7.92) | .199 (5.05) |
| NSW0871 | .130 (3.30) | .390 (9.91) | .062 (1.57) | .260 (6.60) | .200 (5.08) |
| NSW0872 | .160 (4.06) | .27/64 (10.72) | .050 (1.27) | 9/32 (7.15) | .200 (5.08) |
| NSW0873 | .126 (3.20) | .394 (10.01) | .039 (0.99) | .256 (6.50) | .221 (5.61) |
| NSW0874 | .139 (3.53) | .390 (9.91) | .025 (0.63) | .303 (7.70) | .223 (5.66) |
| NSW0875 | .300 (7.62) | .375 (9.53) | .050 (1.27) | .253 (6.43) | .125 (3.18) |
| NSW0876 | .075 (1.91) | .390 (9.91) | .062 (1.57) | .260 (6.60) | .200 (5.08) |
| NSW0880 | 1/8 (3.18) | .400 (10.16) | 1/8 (3.18) | .275 (6.99) | .140 (3.56) |
| NSW0882 | 9/32 (7.14) | .470 (11.93) | 5/64 (1.98) | .312 (7.92) | .140 (3.56) |
| NSW0885 | .100 (2.54) | .400 (10.16) | 1/8 (3.18) | .275 (6.99) | .140 (3.56) |
| NSW0887 | .187 (4.75) | .408 (10.36) | .062 (1.57) | .240 (6.10) | .197 (5.00) |
| NSW0888 | 3/64 (1.19) | .400 (10.16) | 3/64 (1.19) | .243 (6.17) | .156 (3.96) |
| NSW0890 | 3/64 (1.19) | .415 (10.54) | 5/32 (3.97) | .243 (6.17) | .141 (3.58) |
| NSW0894 | 1/16 (1.59) | .418 (10.62) | 7/64 (2.77) | .243 (6.17) | .141 (3.58) |
| NSW0896 | 3/16 (4.76) | .408 (10.36) | 1/16 (1.59) | .240 (6.10) | .220 (5.59) |
| NSW0900 | 1/32 (0.79) | .428 (10.87) | 1/16 (1.59) | .245 (6.22) | .156 (3.96) |

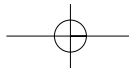


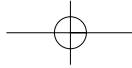
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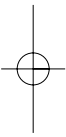
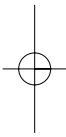
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NYLON SHOULDER WASHERS

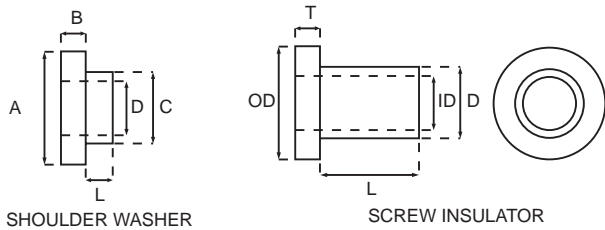
J28

NYLON SHOULDER WASHERS

| PART NUMBER | L | A | B | C | D |
|-------------|---------------|--------------|-------------|--------------|--------------|
| NSW0901 | .093 (2.36) | .437 (11.10) | .040 (1.02) | .375 (9.53) | .194 (4.93) |
| NSW0902 | 1/32 (0.79) | .437 (11.10) | 1/16 (1.59) | .245 (6.22) | .156 (3.96) |
| NSW0903 | .115 (2.92) | .432 (10.97) | .065 (1.65) | .256 (6.50) | .196 (4.98) |
| NSW0904 | 3/8 (9.53) | .437 (11.10) | 1/16 (1.59) | .282 (7.16) | .225 (5.72) |
| NSW0905 | 1/16 (1.59) | .425 (10.78) | 1/16 (1.59) | .310 (7.87) | .250 (6.35) |
| NSW0907 | .026 (0.66) | .438 (11.13) | .094 (2.39) | .307 (7.80) | .253 (6.43) |
| NSW0908 | 3/32 (2.38) | .438 (11.13) | 1/32 (0.79) | .267 (6.78) | .203 (5.16) |
| NSW0909 | 13/32 (10.32) | .493 (12.52) | 3/32 (2.38) | .376 (9.55) | .176 (4.47) |
| NSW0910 | .070 (1.78) | .443 (11.25) | .048 (1.22) | .285 (7.24) | .191 (4.85) |
| NSW0912 | 9/64 (3.58) | .432 (10.97) | 1/32 (0.79) | .303 (7.70) | .196 (4.98) |
| NSW0914 | .043 (1.09) | .440 (11.18) | .094 (2.39) | .312 (7.92) | .193 (4.90) |
| NSW0915 | .138 (3.51) | .413 (10.49) | .315 (8.00) | .244 (6.20) | .217 (5.51) |
| NSW0916 | 3/16 (4.76) | .743 (18.87) | 1/16 (1.59) | .437 (11.10) | .376 (9.55) |
| NSW0917 | 3/64 (1.19) | .428 (10.87) | 1/8 (3.18) | .350 (8.89) | .308 (7.82) |
| NSW0918 | 3/64 (1.19) | .450 (11.43) | 1/64 (0.41) | .310 (7.87) | .230 (5.84) |
| NSW0919 | .060 (1.52) | .460 (11.68) | .030 (0.76) | .370 (9.40) | .260 (6.60) |
| NSW0920 | .138 (3.51) | .413 (10.49) | .118 (3.00) | .244 (6.20) | .217 (5.51) |
| NSW0921 | .236 (5.99) | .480 (12.19) | .079 (2.01) | .315 (8.00) | .240 (6.10) |
| NSW0925 | 3/64 (1.19) | .468 (11.89) | 1/16 (1.59) | .248 (6.30) | .140 (3.56) |
| NSW0926 | 11/16 (17.53) | .498 (12.64) | 1/16 (1.59) | .375 (9.53) | .254 (6.45) |
| NSW0930 | 7/32 (5.55) | .468 (11.89) | 3/64 (1.19) | .375 (9.53) | .325 (8.26) |
| NSW0935 | .187 (4.75) | .495 (12.57) | .065 (1.65) | .312 (7.92) | .200 (5.08) |
| NSW0940 | .157 (3.99) | .483 (12.27) | .059 (1.50) | .315 (8.00) | .240 (6.10) |
| NSW0950 | .157 (3.99) | .472 (11.99) | .181 (4.60) | .315 (8.00) | .205 (5.21) |
| NSW1001 | 3/8 (9.53) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSW1002 | 3/32 (2.38) | .438 (11.13) | 1/16 (1.59) | .267 (6.78) | .203 (5.16) |
| NSW1003 | 3/16 (4.76) | .745 (18.92) | 1/32 (0.79) | .282 (7.16) | .234 (5.94) |
| NSW1004 | 9/64 (3.58) | .438 (11.13) | 1/32 (0.79) | .250 (6.35) | .135 (3.43) |
| NSW1005 | 5/64 (1.98) | .464 (11.79) | 1/64 (0.41) | .312 (7.92) | .255 (6.48) |
| NSW1006 | 11/64 (4.37) | .425 (10.78) | 1/16 (1.59) | .377 (9.58) | .260 (6.60) |
| NSW1007 | 3/64 (1.19) | .437 (11.10) | 3/64 (1.19) | .281 (7.14) | .201 (5.11) |
| NSW1008 | 3/64 (1.19) | .620 (15.75) | 3/64 (1.19) | .312 (7.92) | .205 (5.21) |
| NSW1009 | 1/16 (1.59) | .740 (18.80) | 1/32 (0.79) | .368 (9.53) | .320 (8.13) |
| NSW1010 | 3/64 (1.19) | .625 (15.88) | 7/64 (2.77) | .375 (9.53) | .250 (6.35) |
| NSW1011 | 1/16 (1.59) | .675 (17.14) | 3/32 (2.38) | .480 (12.19) | .257 (6.53) |
| NSW1012 | 1/8 (3.18) | .697 (17.70) | 1/16 (1.59) | .359 (9.12) | .266 (6.76) |
| NSW1013 | 3/64 (1.19) | .688 (17.48) | 1/32 (0.79) | .543 (13.79) | .508 (12.90) |
| NSW1014 | 1/32 (0.79) | .437 (11.10) | 1/32 (0.79) | .310 (7.87) | .253 (6.43) |
| NSW1015 | 3/64 (1.19) | .500 (12.70) | 3/32 (2.38) | .275 (6.99) | .145 (3.68) |
| NSW1016 | 7/16 (11.11) | .500 (12.70) | 1/8 (3.18) | .250 (6.35) | .167 (4.24) |
| NSW1017 | 1/16 (1.59) | .562 (14.27) | 3/32 (2.38) | .375 (9.53) | .260 (6.60) |
| NSW1018 | 3/16 (4.76) | .625 (15.88) | 1/16 (1.59) | .322 (8.18) | .255 (6.48) |
| NSW1019 | 3/64 (1.19) | .615 (15.62) | 1/32 (0.79) | .310 (7.87) | .253 (6.43) |
| NSW1020 | 1/16 (1.59) | .640 (16.26) | 1/16 (1.59) | .380 (9.65) | .195 (4.95) |
| NSW1021 | 3/64 (1.19) | .630 (16.00) | 1/32 (0.79) | .248 (6.30) | .171 (4.34) |
| NSW1022 | 3/64 (1.19) | .625 (15.88) | 1/16 (1.59) | .375 (9.53) | .190 (4.83) |
| NSW1023 | 3/64 (1.19) | .555 (14.10) | 5/64 (1.98) | .300 (7.62) | .260 (6.60) |

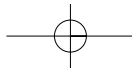


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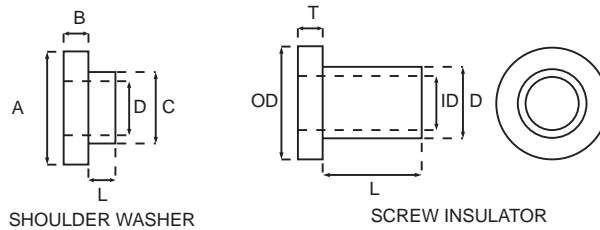


NYLON SHOULDER WASHERS

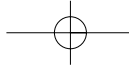
J29

NYLON SHOULDER WASHERS

| PART NUMBER | L | A | B | C | D |
|-------------|--------------|--------------|-------------|--------------|-------------|
| NSW1025 | 7/16 (11.11) | .562 (14.28) | 1/16 (1.59) | .375 (9.53) | .255 (6.48) |
| NSW1026 | 1/32 (0.79) | .588 (14.93) | 1/32 (0.79) | .253 (6.43) | .198 (5.02) |
| NSW1027 | .500 (1.27) | .500 (12.70) | 1/16 (1.59) | .365 (9.27) | .312 (7.92) |
| NSW1028 | .249 (6.32) | .500 (12.70) | .062 (1.57) | .250 (6.35) | .189 (4.80) |
| NSW1030 | 3/32 (2.38) | .490 (12.45) | 1/16 (1.59) | .281 (7.14) | .200 (5.08) |
| NSW1031 | .050 (1.27) | .500 (12.70) | .062 (1.57) | .248 (6.30) | .194 (4.93) |
| NSW1032 | 1/32 (0.79) | .500 (12.70) | 3/32 (2.38) | .250 (6.35) | .156 (3.96) |
| NSW1033 | 5/16 (7.94) | .500 (12.70) | 1/16 (1.59) | .312 (7.92) | .200 (5.08) |
| NSW1034 | 1/32 (0.79) | .500 (12.70) | 1/32 (0.79) | .312 (7.92) | .252 (6.40) |
| NSW1035 | 1/32 (0.79) | .500 (12.70) | 1/16 (1.59) | .230 (5.84) | .147 (3.73) |
| NSW1036 | 1/64 (0.41) | .500 (12.70) | 5/64 (1.98) | .250 (6.35) | .165 (4.19) |
| NSW1037 | .047 (1.19) | .500 (12.70) | .125 (3.17) | .281 (7.14) | .219 (5.56) |
| NSW1040 | 3/32 (2.38) | .505 (12.83) | 1/16 (1.59) | .343 (8.71) | .257 (6.53) |
| NSW1041 | .335 (8.51) | .495 (12.57) | .050 (1.27) | .346 (8.79) | .260 (6.60) |
| NSW1045 | 3/16 (4.76) | .498 (12.65) | 1/4 (6.35) | .310 (7.87) | .195 (4.95) |
| NSW1048 | 7/16 (11.11) | .500 (12.70) | 1/16 (1.59) | .375 (9.53) | .250 (6.35) |
| NSW1050 | 5/32 (3.97) | .490 (12.45) | 1/16 (1.59) | .250 (6.35) | .190 (4.83) |
| NSW1051 | 3/64 (1.19) | .441 (11.20) | 1/16 (1.59) | .248 (6.30) | .194 (4.93) |
| NSW1052 | 5/32 (3.97) | .488 (12.39) | 1/8 (3.18) | .250 (6.35) | .190 (4.83) |
| NSW1053 | .170 (4.32) | .500 (12.70) | .125 (3.17) | .375 (9.52) | .257 (6.53) |
| NSW1054 | 9/64 (3.58) | .500 (12.70) | 1/16 (1.59) | .345 (8.76) | .285 (7.34) |
| NSW1055 | 1/32 (0.79) | .495 (12.57) | 1/32 (0.79) | .312 (7.92) | .260 (6.60) |
| NSW1057 | 3/32 (2.38) | .500 (12.70) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSW1058 | 1/32 (0.79) | .490 (12.45) | 1/32 (0.79) | .310 (7.87) | .193 (4.90) |
| NSW1059 | .060 (1.52) | .500 (12.70) | .030 (0.76) | .365 (9.27) | .260 (6.60) |
| NSW1060 | 5/64 (1.98) | .492 (12.50) | 1/32 (0.79) | .318 (8.08) | .265 (6.73) |
| NSW1061 | 5/32 (3.97) | .488 (12.39) | 1/8 (3.18) | .250 (6.35) | .215 (5.46) |
| NSW1065 | 3/16 (4.76) | .513 (13.03) | 1/16 (1.59) | .312 (7.92) | .175 (4.45) |
| NSW1070 | 5/64 (1.98) | .495 (12.57) | 1/32 (0.79) | .318 (8.08) | .193 (4.90) |
| NSW1071 | .253 (6.43) | .502 (12.75) | .187 (4.75) | .374 (9.50) | .318 (8.08) |
| NSW1075 | 1/4 (6.35) | .513 (13.03) | 1/16 (1.59) | .370 (9.40) | .260 (6.60) |
| NSW1080 | 1/64 (0.41) | .500 (12.70) | 1/32 (0.79) | .318 (8.08) | .141 (3.58) |
| NSW1082 | 3/64 (1.19) | .500 (12.70) | 1/32 (0.79) | .318 (8.08) | .193 (4.90) |
| NSW1084 | 3/64 (1.19) | .500 (12.70) | 1/32 (0.79) | .318 (8.08) | .141 (3.58) |
| NSW1086 | 1/16 (1.59) | .500 (12.70) | 1/16 (1.59) | .330 (8.38) | .150 (3.81) |
| NSW1088 | .109 (2.77) | .500 (12.70) | 1/16 (1.59) | .240 (6.10) | .138 (3.51) |
| NSW1090 | 3/64 (1.19) | .518 (13.16) | 1/32 (0.79) | .305 (7.75) | .080 (2.03) |
| NSW1092 | .075 (1.91) | .500 (12.70) | .175 (4.45) | .300 (7.62) | .195 (4.95) |
| NSW1095 | 1/8 (3.18) | .502 (12.75) | 1/32 (0.79) | .399 (10.13) | .349 (8.86) |
| NSW1098 | 9/64 (3.58) | .515 (13.08) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSW1101 | 3/32 (2.38) | .500 (12.70) | 1/32 (0.79) | .282 (7.16) | .234 (5.94) |
| NSW1115 | .500 (12.70) | .525 (15.88) | .063 (1.60) | .370 (9.40) | .267 (6.78) |
| NSW1145 | .030 (0.76) | .562 (14.28) | .030 (0.76) | .400 (10.16) | .318 (8.08) |



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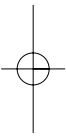
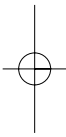
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NYLON SHOULDER WASHERS

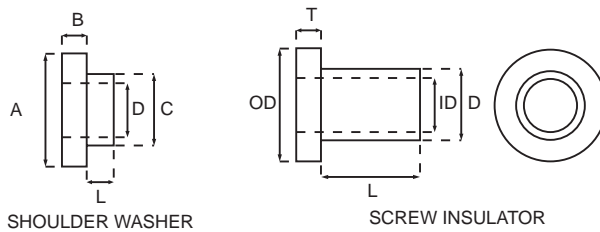
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NYLON SHOULDER WASHERS

| PART NUMBER | L | A | B | C | D |
|-------------|----------------|--------------|-------------|--------------|--------------|
| NSW1150 | 3/64 (1.19) | .562 (14.28) | 3/64 (1.19) | .300 (7.62) | .260 (6.60) |
| NSW1155 | 3/64 (1.19) | .562 (14.28) | .024 (0.61) | .370 (9.40) | .335 (8.51) |
| NSW1159 | 9/16 (14.29) | .550 (13.97) | 1/16 (1.59) | .375 (9.53) | .255 (6.48) |
| NSW1160 | 1/16 (1.59) | .562 (14.28) | 7/64 (2.77) | .365 (9.27) | .215 (5.46) |
| NSW1162 | 27/64 (10.72) | .550 (13.97) | 1/16 (1.59) | .375 (9.53) | .255 (6.48) |
| NSW1163 | 15/32 (11.91) | .550 (13.97) | 1/16 (1.59) | .380 (9.65) | .247 (6.27) |
| NSW1164 | 1/32 (0.79) | .562 (14.28) | 1/8 (3.18) | .312 (7.93) | .169 (4.29) |
| NSW1165 | 1/4 (6.35) | .551 (13.99) | 1/16 (1.59) | .380 (9.65) | .248 (6.30) |
| NSW1170 | 3/8 (9.53) | .570 (14.48) | 1/16 (1.59) | .470 (11.94) | .385 (9.78) |
| NSW1175 | .783 (19.89) | .570 (14.48) | .039 (0.99) | .491 (12.47) | .413 (10.49) |
| NSW1176 | .335 (8.51) | .545 (13.84) | .075 (1.91) | .316 (8.03) | .166 (4.22) |
| NSW1180 | 3/64 (1.19) | .578 (14.68) | 1/16 (1.59) | .185 (4.70) | .140 (3.56) |
| NSW1200 | 3/64 (1.19) | .615 (15.62) | 3/64 (1.19) | .315 (8.00) | .208 (5.28) |
| NSW1201 | 1/8 (3.18) | .620 (15.75) | 3/8 (9.53) | .360 (9.14) | .320 (8.13) |
| NSW1204 | .500 (12.70) | .600 (15.24) | .025 (0.64) | .485 (12.32) | .324 (8.23) |
| NSW1205 | 1/32 (0.79) | .620 (15.75) | 3/64 (1.19) | .434 (11.02) | .383 (9.73) |
| NSW1210 | 1/32 (0.79) | .625 (15.88) | 1/16 (1.59) | .405 (10.29) | .378 (9.60) |
| NSW1211 | .139 (3.53) | .625 (15.88) | .066 (1.68) | .405 (10.29) | .320 (8.13) |
| NSW1215 | .062 (1.57) | .625 (15.88) | 1/32 (0.79) | .310 (7.87) | .195 (4.95) |
| NSW1217 | .030 (0.76) | .625 (15.88) | .030 (0.76) | .447 (12.12) | .378 (9.60) |
| NSW1219 | 3/64 (1.19) | .625 (15.88) | 1/16 (1.59) | .310 (7.87) | .172 (4.37) |
| NSW1220 | 3/4 (19.05) | .620 (15.75) | 1/8 (3.18) | .400 (10.60) | .260 (6.60) |
| NSW1221 | 1/8 (3.18) | .630 (16.00) | 1/16 (1.59) | .327 (8.31) | .260 (6.60) |
| NSW1222 | 1/32 (0.79) | .625 (15.88) | 1/32 (0.79) | .448 (11.37) | .378 (9.60) |
| NSW1225 | .027 (0.69) | .625 (15.88) | .062 (1.57) | .248 (6.30) | .120 (3.05) |
| NSW1227 | .210 (5.33) | .625 (15.88) | .058 (1.47) | .379 (9.63) | .263 (6.68) |
| NSW1228 | .025 (0.64) | .625 (15.88) | .060 (1.52) | .219 (5.56) | .140 (3.56) |
| NSW1230 | 3/64 (1.19) | .550 (13.97) | 5/64 (1.98) | .305 (7.75) | .260 (6.60) |
| NSW1232 | .500 (12.70) | .625 (15.88) | 1/16 (1.59) | .370 (9.40) | .316 (8.03) |
| NSW1233 | .090 (2.29) | .625 (15.88) | .062 (1.57) | .311 (7.90) | .253 (6.43) |
| NSW1235 | .150 (3.81) | .620 (15.75) | .060 (1.52) | .502 (12.75) | .316 (8.03) |
| NSW1240 | 3/16 (4.76) | .630 (16.00) | 1/16 (1.59) | .375 (9.53) | .254 (6.45) |
| NSW2499 | 3/8 (9.53) | .513 (13.03) | 1/16 (1.59) | .312 (7.93) | .191 (4.85) |
| NSW2501 | 3/8 (9.53) | .513 (13.03) | 1/16 (1.59) | .312 (7.93) | .261 (6.63) |
| NSW2502 | 1/8 (3.18) | .467 (11.86) | 3/64 (1.19) | .312 (7.93) | .255 (6.48) |
| NSW2503 | 1/32 (0.79) | .625 (15.88) | 1/16 (1.59) | .375 (9.53) | .295 (7.49) |
| NSW2504 | 1/8 (3.18) | .687 (17.45) | 1/8 (3.18) | .437 (11.10) | .328 (8.33) |
| NSW2505 | 1/32 (0.79) | .500 (12.70) | 1/16 (1.59) | .312 (7.93) | .252 (6.40) |
| NSW2506 | 5/16 (7.94) | .625 (15.88) | 1/16 (1.59) | .500 (12.70) | .380 (9.65) |
| NSW2507 | 1/8 (3.18) | .600 (15.24) | 1/8 (3.18) | .370 (7.93) | .250 (6.35) |
| NSW2508 | 3/16 (4.76) | .674 (17.12) | 3/32 (2.38) | .500 (12.70) | .290 (7.36) |
| NSW2509 | 1-7/64 (28.17) | .635 (16.13) | 9/64 (3.58) | .425 (10.80) | .201 (5.11) |
| NSW2510 | 3/8 (9.53) | .687 (17.45) | 3/8 (9.53) | .359 (9.12) | .263 (6.68) |

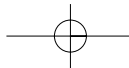


Plastic Hardware



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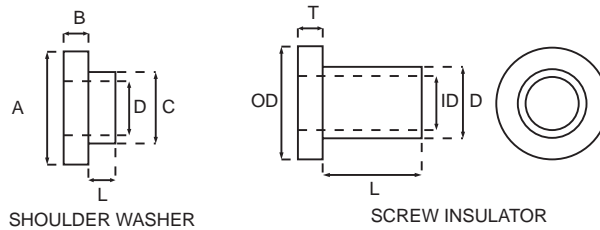


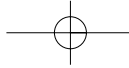
NYLON SHOULDER WASHERS

J31

NYLON SHOULDER WASHERS

| PART NUMBER | L | A | B | C | D |
|-------------|---------------|--------------|--------------|--------------|--------------|
| NSW2511 | 5/16 (7.94) | .625 (15.88) | 1/16 (1.59) | .500 (12.70) | .395 (10.03) |
| NSW2512 | .334 (8.48) | .687 (17.45) | .046 (1.17) | .348 (8.84) | .263 (6.68) |
| NSW2513 | 1/8 (3.18) | .703 (17.86) | 1/16 (1.59) | .437 (11.10) | .335 (8.51) |
| NSW2515 | .420 (10.67) | .710 (18.03) | .075 (1.90) | .470 (11.94) | .420 (10.67) |
| NSW2520 | 5/32 (3.97) | .725 (18.41) | 5/32 (3.97) | .445 (11.30) | .375 (9.53) |
| NSW2521 | 5/32 (3.97) | .720 (18.29) | 1/16 (1.59) | .485 (12.32) | .270 (6.86) |
| NSW2525 | 11/32 (3.43) | .730 (18.54) | 1/4 (6.35) | .375 (9.53) | .257 (6.52) |
| NSW2528 | 3/16 (4.76) | .743 (18.87) | 1/16 (1.59) | .443 (11.25) | .375 (9.53) |
| NSW2531 | 5/16 (7.94) | .743 (18.87) | 5/64 (1.98) | .502 (12.75) | .383 (9.72) |
| NSW2532 | .155 (3.94) | .745 (18.92) | .100 (2.54) | .545 (13.84) | .391 (9.93) |
| NSW2533 | .375 (9.52) | .750 (19.05) | .375 (9.52) | .594 (15.09) | .380 (9.65) |
| NSW2534 | .187 (4.75) | .745 (18.92) | .031 (0.79) | .282 (7.16) | .234 (5.94) |
| NSW2539 | 11/32 (3.43) | .740 (18.80) | 3/32 (2.38) | .375 (9.53) | .266 (6.76) |
| NSW2540 | 1/8 (3.18) | .740 (18.80) | 3/32 (2.38) | .371 (9.42) | .266 (6.76) |
| NSW2541 | 5/64 (1.98) | .750 (19.05) | 3/32 (2.38) | .380 (9.65) | .266 (6.76) |
| NSW2542 | 3/64 (1.19) | .750 (19.05) | 3/16 (4.76) | .500 (12.70) | .430 (10.92) |
| NSW2543 | .770 (19.56) | .750 (19.05) | .095 (2.41) | .490 (12.45) | .190 (4.83) |
| NSW2544 | 1.00 (25.40) | .750 (19.05) | .095 (2.41) | .375 (9.53) | .265 (6.73) |
| NSW2545 | .100 (2.54) | .750 (19.05) | .086 (2.18) | .500 (12.70) | .250 (6.35) |
| NSW2550 | 1/16 (1.59) | .734 (18.64) | 1/8 (3.18) | .488 (12.40) | .250 (6.35) |
| NSW2551 | 3/64 (1.19) | .753 (19.12) | 5/64 (1.98) | .409 (10.38) | .258 (6.55) |
| NSW2552 | 7/64 (2.77) | .743 (18.87) | 3/32 (2.38) | .500 (12.70) | .375 (9.53) |
| NSW2553 | 5/16 (7.94) | .750 (19.05) | 5/64 (1.98) | .500 (12.70) | .370 (9.39) |
| NSW2554 | 3/64 (1.19) | .735 (18.67) | 3/16 (4.76) | .490 (12.45) | .435 (11.05) |
| NSW2555 | .098 (2.49) | .747 (18.87) | .079 (2.01) | .482 (12.24) | .358 (9.09) |
| NSW2556 | 3/16 (4.76) | .750 (19.05) | 1/16 (1.59) | .500 (12.70) | .375 (9.53) |
| NSW2557 | 23/64 (10.00) | .748 (18.99) | 1/8 (3.18) | .504 (12.80) | .384 (9.75) |
| NSW2558 | 1/8 (3.18) | .750 (19.05) | 1/16 (1.59) | .500 (12.70) | .375 (9.53) |
| NSW2560 | 3/64 (1.19) | .750 (19.05) | 1/32 (0.79) | .371 (9.42) | .253 (6.43) |
| NSW2561 | 27/64 (10.72) | .750 (19.05) | 11/64 (4.37) | .434 (11.02) | .312 (7.93) |
| NSW2562 | 1/4 (3.38) | .755 (19.17) | 5/64 (1.98) | .505 (12.83) | .378 (9.60) |
| NSW2563 | 3/32 (1.19) | .750 (19.05) | 1/8 (3.18) | .375 (9.53) | .265 (6.73) |
| NSW2564 | 1/4 (3.38) | .750 (19.05) | 1/16 (1.59) | .250 (6.35) | .150 (3.81) |
| NSW2566 | 15/32 (11.90) | .740 (18.80) | 5/32 (3.97) | .375 (9.53) | .250 (6.35) |
| NSW2568 | 3/64 (1.19) | .750 (19.05) | 1/32 (0.79) | .341 (8.66) | .253 (6.43) |
| NSW2570 | 11/16 (17.46) | .740 (18.80) | 9/64 (3.58) | .385 (9.78) | .260 (6.60) |
| NSW2571 | .320 (8.13) | .750 (19.05) | .030 (0.76) | .580 (14.73) | .517 (13.13) |
| NSW2575 | 51/64 (20.24) | .750 (19.05) | 3/32 (2.38) | .315 (8.01) | .190 (4.83) |
| NSW2576 | 1/32 (0.76) | .750 (19.05) | 1/32 (0.79) | .500 (12.70) | .219 (5.56) |
| NSW2578 | 3/16 (4.76) | .750 (19.05) | 1/16 (1.59) | .625 (15.88) | .510 (12.95) |
| NSW2580 | 5/16 (7.94) | .745 (18.92) | 1/32 (0.79) | .560 (14.22) | .500 (12.70) |
| NSW2585 | 1/4 (3.38) | .740 (18.80) | .500 (12.70) | .605 (15.37) | .380 (9.65) |
| NSW2586 | 1/4 (3.38) | .750 (19.05) | 1/8 (3.18) | .500 (12.70) | .281 (7.14) |





Plastic Hardware

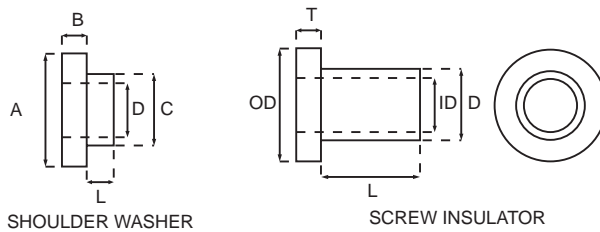
NYLON SHOULDER WASHERS

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NYLON SHOULDER WASHERS

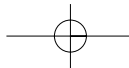
| PART NUMBER | L | A | B | C | D |
|-------------|---------------|---------------|--------------|--------------|--------------|
| NSW2590 | .018 (0.46) | .745 (18.92) | .085 (2.16) | .305 (7.75) | .200 (5.08) |
| NSW3001 | 1/8 (3.18) | .693 (17.60) | 1/16 (1.59) | .437 (11.10) | .328 (8.33) |
| NSW3002 | 3/64 (1.19) | .750 (19.05) | 3/64 (1.19) | .375 (9.53) | .323 (8.20) |
| NSW3003 | 7/32 (5.55) | .750 (19.05) | 3/32 (2.38) | .380 (9.65) | .266 (6.76) |
| NSW3004 | 1/16 (1.59) | .750 (19.05) | 3/32 (2.38) | .359 (9.12) | .152 (3.86) |
| NSW3005 | 5/32 (3.97) | .750 (19.05) | 1/32 (0.79) | .498 (12.64) | .378 (9.60) |
| NSW3006 | 1/32 (0.79) | .750 (19.05) | 1/8 (3.18) | .500 (12.70) | .375 (9.53) |
| NSW3007 | 1/16 (1.59) | .750 (19.05) | 1/8 (3.18) | .500 (12.70) | .375 (9.53) |
| NSW3008 | 1/16 (1.59) | .745 (18.92) | 1/32 (0.79) | .375 (9.53) | .320 (8.13) |
| NSW3009 | 3/64 (1.19) | .760 (19.30) | 5/64 (1.98) | .410 (10.41) | .258 (6.55) |
| NSW3010 | .027 (0.68) | .745 (18.92) | .031 (0.79) | .310 (7.87) | .257 (6.53) |
| NSW3012 | .395 (10.03) | .740 (18.80) | .062 (1.57) | .430 (10.92) | .322 (8.18) |
| NSW3015 | 1.005 (25.53) | .752 (19.10) | .060 (1.52) | .505 (12.83) | .320 (8.13) |
| NSW3016 | .050 (1.27) | .745 (18.92) | 1/16 (1.59) | .556 (14.12) | .515 (13.08) |
| NSW3017 | 5/32 (3.97) | .755 (19.18) | .500 (12.70) | .510 (12.95) | .385 (9.78) |
| NSW3020 | .305 (7.75) | .740 (18.80) | .130 (3.30) | .495 (12.57) | .219 (5.56) |
| NSW3021 | .440 (11.18) | .745 (18.92) | 1/16 (1.59) | .495 (12.57) | .390 (9.91) |
| NSW3030 | .252 (6.40) | .780 (19.81) | .079 (2.01) | .392 (9.96) | .250 (6.35) |
| NSW3100 | .325 (8.26) | .825 (20.96) | .060 (1.52) | .435 (11.05) | .310 (7.87) |
| NSW3101 | 1/32 (0.79) | .750 (19.05) | 1/16 (1.59) | .375 (9.53) | .260 (6.60) |
| NSW3102 | .500 (12.70) | .825 (20.96) | 1/16 (1.59) | .620 (15.75) | .520 (13.21) |
| NSW3103 | .500 (12.70) | .872 (22.14) | 1/8 (3.18) | .617 (15.67) | .335 (8.51) |
| NSW3150 | 1.00 (25.40) | .875 (22.23) | 1/16 (1.59) | .500 (12.70) | .375 (9.53) |
| NSW3151 | 3/8 (9.53) | 7/8 (22.22) | 1/8 (3.18) | .633 (16.08) | .510 (12.95) |
| NSW3155 | 3/8 (9.53) | .875 (22.23) | 1/8 (3.18) | .630 (16.00) | .440 (11.18) |
| NSW3160 | .500 (12.70) | .875 (22.23) | 1/16 (1.59) | .750 (19.05) | .635 (16.13) |
| NSW3165 | 3/8 (9.53) | .875 (22.23) | 1/8 (3.18) | .620 (15.75) | .250 (6.35) |
| NSW3200 | 3/16 (4.76) | .995 (25.27) | 1/8 (3.18) | .792 (20.12) | .695 (17.65) |
| NSW3205 | 5/8 (15.88) | .995 (25.27) | 1/8 (3.18) | .787 (19.99) | .695 (17.65) |
| NSW3210 | 1.00 (25.40) | .995 (25.27) | 1/8 (3.18) | .788 (20.02) | .695 (17.65) |
| NSW3500 | 3/16 (4.76) | .750 (19.05) | 1/16 (1.59) | .498 (12.64) | .378 (9.60) |
| NSW3501 | 7/64 (2.77) | .750 (19.05) | 3/32 (2.38) | .577 (14.66) | .390 (9.91) |
| NSW3502 | 27/64 (10.72) | .790 (20.07) | 3/64 (1.19) | .625 (15.88) | .550 (13.97) |
| NSW3503 | 13/16 (8.12) | .625 (15.88) | 1/8 (3.18) | .375 (9.53) | .255 (6.47) |
| NSW3504 | 13/16 (8.12) | .625 (15.88) | 1/8 (3.18) | .375 (9.53) | .260 (6.60) |
| NSW3507 | .250 (6.35) | .830 (21.08) | .100 (2.54) | .452 (11.18) | .253 (6.43) |
| NSW3510 | 13/32 (10.32) | .825 (20.96) | 3/32 (2.38) | .445 (11.30) | .306 (7.77) |
| NSW3511 | 13/64 (5.16) | .880 (22.35) | 3/64 (1.19) | .750 (19.05) | .617 (15.67) |
| NSW3512 | .935 (23.75) | .872 (22.15) | .110 (2.79) | .497 (12.62) | .385 (9.78) |
| NSW3520 | 17/32 (13.49) | .945 (24.03) | 5/64 (1.98) | .470 (11.93) | .406 (10.31) |
| NSW3562 | 1/4 (6.35) | .980 (24.89) | 1/8 (3.18) | .556 (14.12) | .380 (9.65) |
| NSW3580 | 9/16 (14.29) | 1.25 (31.75) | 3/64 (1.19) | 1.00 (25.40) | .559 (14.20) |
| NSW3600 | .660 (16.76) | 1.010 (25.65) | .160 (4.06) | .600 (15.24) | .260 (6.60) |

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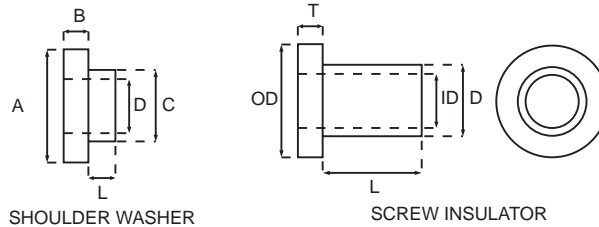


NYLON SHOULDER WASHERS

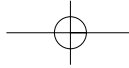
J33

NYLON SHOULDER WASHERS

| PART NUMBER | L | A | B | C | D |
|-------------|---------------|---------------|--------------|---------------|---------------|
| NSW3601 | 3/16 (4.76) | 1.000 (25.40) | 1/4 (6.35) | .435 (11.05) | .325 (8.26) |
| NSW3602 | 1/32 (0.79) | 1.000 (25.40) | 3/32 (2.38) | .616 (15.65) | .515 (13.08) |
| NSW3603 | .050 (1.27) | 1.005 (25.53) | .070 (1.78) | .500 (12.70) | .453 (11.51) |
| NSW3605 | 5/16 (7.94) | 1.005 (25.53) | 1/16 (1.59) | .500 (12.70) | .375 (9.53) |
| NSW3606 | .330 (8.38) | 1.000 (25.40) | .040 (1.02) | .625 (15.87) | .515 (13.08) |
| NSW3610 | 9/16 (14.29) | 1.000 (25.40) | 1/16 (1.59) | .500 (12.70) | .382 (9.70) |
| NSW3615 | 3/4 (19.05) | 1.000 (25.40) | 1/8 (3.18) | .500 (12.70) | .375 (9.53) |
| NSW3650 | 7/64 (2.77) | 1.000 (25.40) | 5/64 (1.98) | .770 (19.56) | .508 (12.90) |
| NSW3680 | 1/16 (1.59) | 1.000 (25.40) | 1/16 (1.59) | .298 (7.57) | .203 (5.16) |
| NSW3685 | 1/16 (1.59) | 1.064 (27.02) | 1/16 (1.59) | .787 (19.99) | .612 (15.54) |
| NSW3686 | .281 (7.14) | 1.105 (28.07) | .092 (2.34) | .718 (18.24) | .515 (13.08) |
| NSW3690 | 7/16 (11.11) | 1.125 (28.58) | 3/32 (2.38) | .700 (17.78) | .510 (12.95) |
| NSW3691 | .060 (1.52) | 1.160 (29.46) | .128 (3.25) | .495 (12.57) | .377 (9.58) |
| NSW4001 | 3/32 (2.38) | 1.125 (28.58) | 1/16 (1.59) | .740 (18.80) | .515 (13.08) |
| NSW4002 | 3/32 (2.38) | 1.230 (31.24) | 1/16 (1.59) | .980 (24.89) | .510 (12.95) |
| NSW4003 | 9/32 (7.14) | 1.105 (28.07) | 1/8 (3.18) | .752 (19.10) | .515 (13.08) |
| NSW4004 | .500 (12.70) | 1.245 (31.69) | 1/8 (3.18) | .875 (22.23) | .627 (15.92) |
| NSW4005 | 13/32 (10.32) | 1.252 (31.80) | 1/16 (1.59) | .600 (15.24) | .538 (13.66) |
| NSW4006 | 13/32 (10.32) | 1.251 (31.77) | 1/16 (1.59) | .528 (13.41) | .471 (11.96) |
| NSW4007 | 13/64 (5.16) | 1.739 (44.17) | 13/64 (5.16) | 1.095 (27.81) | .435 (11.04) |
| NSW4008 | 11/32 (8.71) | 1.250 (31.75) | 5/32 (3.97) | .995 (25.27) | .885 (22.48) |
| NSW4009 | .750 (19.05) | 1-1/8 (28.57) | 1/16 (1.59) | 7/16 (11.11) | 5/16 (7.94) |
| NSW4010 | 3/32 (2.38) | 1.250 (31.75) | 1/16 (1.59) | .930 (23.62) | .562 (14.27) |
| NSW4011 | .094 (2.39) | 1.250 (31.75) | .062 (1.57) | .989 (25.12) | .562 (14.27) |
| NSW4012 | .060 (1.52) | 1.650 (41.91) | .060 (1.52) | 1.380 (35.05) | 1.125 (28.58) |
| NSW4013 | 5/8 (15.88) | 1.750 (44.45) | 1/8 (3.18) | 1-3/8 (34.93) | 1.015 (25.78) |
| NSW5001 | .500 (12.70) | 2.065 (52.45) | 1/8 (3.18) | 1.050 (26.67) | .806 (20.42) |
| NSW5009 | 45/64 (7.03) | 2.111 (53.62) | 1/8 (3.18) | .603 (15.31) | .270 (6.85) |



Plastic Hardware



Plastic Hardware

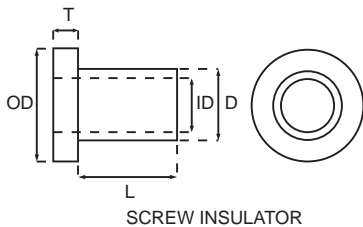
NYLON SCREW INSULATORS

J34

NYLON SCREW INSULATORS

| PART NUMBER | L | A | B | C | D |
|-------------|--------------|--------------|-------------|-------------|-------------|
| NSI002012 | 1/8 (3.18) | .181 (4.60) | 3/64 (1.19) | .120 (3.05) | .090 (2.29) |
| NSI002018 | 3/16 (4.76) | .181 (4.60) | 3/64 (1.19) | .120 (3.05) | .090 (2.29) |
| NSI002025 | 1/4 (6.35) | .181 (4.60) | 3/64 (1.19) | .120 (3.05) | .090 (2.29) |
| NSI002037 | 3/8 (9.53) | .181 (4.60) | 3/64 (1.19) | .120 (3.05) | .090 (2.29) |
| NSI004003 | 1/32 (0.79) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI004004 | 3/64 (1.19) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI004006 | 1/16 (1.59) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI004009 | 3/32 (2.38) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI004012 | 1/8 (3.18) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI004015 | 5/32 (3.97) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI004018 | 3/16 (4.76) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI004025 | 1/4 (6.35) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI004037 | 3/8 (9.53) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI004050 | 1/2 (12.70) | .235 (5.97) | 3/64 (1.19) | .145 (3.68) | .115 (2.92) |
| NSI006004 | 3/64 (1.19) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSI006006 | 1/16 (1.59) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSI006009 | 3/32 (2.38) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSI006012 | 1/8 (3.18) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSI006015 | 5/32 (3.97) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSI006018 | 3/16 (4.76) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSI006025 | 1/4 (6.35) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSI006037 | 3/8 (9.53) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSI006050 | 1/2 (12.70) | .290 (7.37) | 3/64 (1.19) | .170 (4.32) | .140 (3.56) |
| NSI008012 | 1/8 (3.18) | .344 (8.74) | 1/16 (1.59) | .205 (5.21) | .173 (4.39) |
| NSI008014 | 9/64 (3.58) | .344 (8.74) | 1/16 (1.59) | .205 (5.21) | .173 (4.39) |
| NSI008025 | 1/4 (6.35) | .344 (8.74) | 1/16 (1.59) | .205 (5.21) | .173 (4.39) |
| NSI008037 | 3/8 (9.53) | .344 (8.74) | 1/16 (1.59) | .205 (5.21) | .173 (4.39) |
| NSI008050 | 1/2 (12.70) | .344 (8.74) | 1/16 (1.59) | .205 (5.21) | .173 (4.39) |
| NSI008062 | 5/8 (15.88) | .344 (8.74) | 1/16 (1.59) | .205 (5.21) | .173 (4.39) |
| NSI008075 | 3/4 (19.05) | .344 (8.74) | 1/16 (1.59) | .205 (5.21) | .173 (4.39) |
| NSI010006 | 1/16 (1.59) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSI010014 | 9/64 (3.58) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSI010018 | 3/16 (4.76) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSI010025 | 1/4 (6.35) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSI010037 | 3/8 (9.53) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSI010050 | 1/2 (12.70) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSI010056 | 9/16 (14.29) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSI010062 | 5/8 (15.88) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSI010075 | 3/4 (19.05) | .399 (10.13) | 1/16 (1.59) | .260 (6.60) | .200 (5.08) |
| NSI050012 | 1/8 (3.18) | .513 (13.03) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSI050014 | 9/64 (3.58) | .513 (13.03) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSI050018 | 3/16 (4.76) | .513 (13.03) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSI050025 | 1/4 (6.35) | .513 (13.03) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSI050037 | 3/8 (9.53) | .513 (13.03) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSI050050 | 1/2 (12.70) | .513 (13.03) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSI050062 | 5/8 (15.88) | .513 (13.03) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSI050075 | 3/4 (19.05) | .513 (13.03) | 1/16 (1.59) | .312 (7.92) | .260 (6.60) |
| NSI012012 | 1/8 (3.18) | .620 (15.75) | 1/16 (1.59) | .360 (9.14) | .320 (8.13) |
| NSI012025 | 1/4 (6.35) | .620 (15.75) | 1/16 (1.59) | .360 (9.14) | .320 (8.13) |
| NSI012037 | 3/8 (9.53) | .620 (15.75) | 1/16 (1.59) | .360 (9.14) | .320 (8.13) |
| NSI012050 | 1/2 (12.70) | .620 (15.75) | 1/16 (1.59) | .360 (9.14) | .320 (8.13) |
| NSI012062 | 5/8 (15.88) | .620 (15.75) | 1/16 (1.59) | .360 (9.14) | .320 (8.13) |

Plastic Hardware

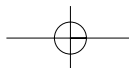


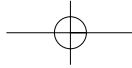
Screw Insulators

Isolate metal screws electrically, reduce corrosion.

Screw insulators may also be used as light load bearings in many applications.

Specify screw size and length when ordering.

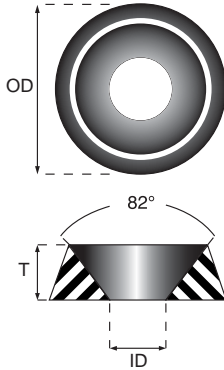




NYLON FINISHING WASHERS

MOULDED NYLON FINISHING WASHERS

J35



| PART NUMBER | ID | OD | T |
|-------------|-------------|--------------|-------------|
| NFW6 | .143 (3.63) | .437 (11.10) | .100 (2.54) |
| NFW8 | .171 (4.34) | .510 (12.95) | .115 (2.92) |
| NFW10 | .191 (4.85) | .580 (14.73) | .152 (3.86) |
| NFW12 | .225 (5.75) | .609 (15.47) | .160 (4.06) |
| NFW25 | .260 (6.61) | .683 (17.35) | .180 (4.57) |

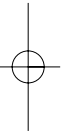
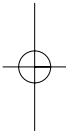
Moulded Nylon Finishing Washers

These washers protect cabinets from scratching, cover misaligned holes, etc.

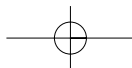
May also be used as glides, bumpers, feet, and spacers.

Available in Natural or Black Nylon

Minimum order: 1,000



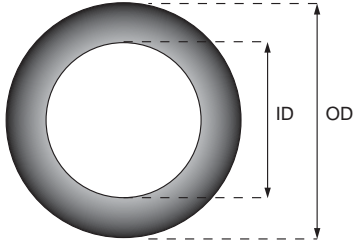
Plastic Hardware



Plastic Hardware

NYLON FLAT WASHERS

J36 NYLON FLAT WASHERS - STANDARD TOLERANCES



Nylon Flat Washers

Standard Tolerances:
 OD = ± 0.010
 ID = ± 0.005
 T = ± 0.015

These washers are made to be used with standard screw sizes #2 up to 1/2. They come in the four most popular thickness', from 1/32 up to 1/8.

Minimum order: 1,000

Plastic Hardware

| PART NUMBER | ID | OD | T |
|-------------|--------------|--------------|-------------|
| NFW2-032 | .090 (2.29) | .250 (6.35) | .032 (0.81) |
| NFW2-062 | .090 (2.29) | .250 (6.35) | .062 (1.58) |
| NFW2-093 | .090 (2.29) | .250 (6.35) | .093 (2.36) |
| NFW2-125 | .090 (2.29) | .250 (6.35) | .125 (3.18) |
| NFW4-032 | .115 (2.92) | .250 (6.35) | .032 (0.81) |
| NFW4-062 | .115 (2.92) | .250 (6.35) | .062 (1.58) |
| NFW4-093 | .115 (2.92) | .250 (6.35) | .093 (2.36) |
| NFW4-125 | .115 (2.92) | .250 (6.35) | .125 (3.18) |
| NFW6-032 | .140 (3.56) | .312 (7.94) | .032 (0.81) |
| NFW6-062 | .140 (3.56) | .312 (7.94) | .062 (1.58) |
| NFW6-093 | .140 (3.56) | .312 (7.94) | .093 (2.36) |
| NFW6-125 | .140 (3.56) | .312 (7.94) | .125 (3.18) |
| NFW8-032 | .171 (4.34) | .375 (9.53) | .032 (0.81) |
| NFW8-062 | .171 (4.34) | .375 (9.53) | .062 (1.58) |
| NFW8-093 | .171 (4.34) | .375 (9.53) | .093 (2.36) |
| NFW8-125 | .171 (4.34) | .375 (9.53) | .125 (3.18) |
| NFW10-032 | .194 (4.93) | .375 (9.53) | .032 (0.81) |
| NFW10-062 | .194 (4.93) | .375 (9.53) | .062 (1.58) |
| NFW10-093 | .194 (4.93) | .375 (9.53) | .093 (2.36) |
| NFW10-125 | .194 (4.93) | .375 (9.53) | .125 (3.18) |
| NFW250-032 | .257 (6.53) | .500 (12.7) | .032 (0.81) |
| NFW250-062 | .257 (6.53) | .500 (12.7) | .062 (1.58) |
| NFW250-093 | .257 (6.53) | .500 (12.7) | .093 (2.36) |
| NFW250-125 | .257 (6.53) | .500 (12.7) | .125 (3.18) |
| NFW312-032 | .317 (8.05) | .500 (12.7) | .032 (0.81) |
| NFW312-062 | .317 (8.05) | .500 (12.7) | .062 (1.58) |
| NFW312-093 | .317 (8.05) | .500 (12.7) | .093 (2.36) |
| NFW312-125 | .317 (8.05) | .500 (12.7) | .125 (3.18) |
| NFW375-032 | .380 (9.65) | .625 (15.88) | .032 (0.81) |
| NFW375-062 | .380 (9.65) | .625 (15.88) | .062 (1.58) |
| NFW375-093 | .380 (9.65) | .625 (15.88) | .093 (2.36) |
| NFW375-125 | .380 (9.65) | .625 (15.88) | .125 (3.18) |
| NFW437-032 | .443 (11.25) | .750 (19.05) | .032 (0.81) |
| NFW437-062 | .443 (11.25) | .750 (19.05) | .062 (1.58) |
| NFW437-093 | .443 (11.25) | .750 (19.05) | .093 (2.36) |
| NFW437-125 | .443 (11.25) | .750 (19.05) | .125 (3.18) |
| NFW500-032 | .505 (12.83) | .750 (19.05) | .032 (0.81) |
| NFW500-062 | .505 (12.83) | .750 (19.05) | .062 (1.58) |
| NFW500-093 | .505 (12.83) | .750 (19.05) | .093 (2.36) |
| NFW500-125 | .505 (12.83) | .750 (19.05) | .125 (3.18) |

NYLON FLAT WASHERS

NYLON FLAT WASHERS - RETAINING WASHERS

J37

| PART NUMBER | ID | RETAINING DIAMETER R | OD | T |
|-------------|--------------|----------------------|----------------|-------------|
| NFWR2-032 | .078 (1.98) | .115 (2.92) | 13/64 (5.16) | .031 (0.79) |
| NFWR2-062 | .078 (1.98) | .115 (2.92) | 13/64 (5.16) | .062 (1.58) |
| NFWR4-032 | .102 (2.59) | .156 (3.96) | 17/64 (6.75) | .031 (0.79) |
| NFWR4-062 | .102 (2.59) | .156 (3.96) | 17/64 (6.75) | .062 (1.58) |
| NFWR6-032 | .128 (3.25) | .198 (5.03) | 21/64 (8.33) | .031 (0.79) |
| NFWR6-062 | .128 (3.25) | .198 (5.03) | 21/64 (8.33) | .062 (1.58) |
| NFWR8-032 | .152 (3.86) | .235 (5.97) | 25/64 (9.92) | .031 (0.79) |
| NFWR8-062 | .152 (3.86) | .235 (5.97) | 25/64 (9.92) | .062 (1.58) |
| NFWR10-032 | .177 (4.50) | .277 (7.04) | 29/64 (11.51) | .031 (0.79) |
| NFWR10-062 | .177 (4.50) | .277 (7.04) | 29/64 (11.51) | .062 (1.58) |
| NFWR250-032 | .234 (5.94) | .375 (9.53) | 19/32 (15.08) | .031 (0.79) |
| NFWR250-062 | .234 (5.94) | .375 (9.53) | 19/32 (15.08) | .062 (1.58) |
| NFWR312-032 | .292 (7.42) | .470 (11.94) | 47/64 (18.65) | .031 (0.79) |
| NFWR312-062 | .292 (7.42) | .470 (11.94) | 47/64 (18.65) | .062 (1.58) |
| NFWR375-032 | .350 (8.89) | .564 (14.33) | 57/64 (22.62) | .031 (0.79) |
| NFWR375-062 | .350 (8.89) | .564 (14.33) | 57/64 (22.62) | .062 (1.58) |
| NFWR437-032 | .410 (10.41) | .570 (14.48) | 1-1/32 (26.19) | .031 (0.79) |
| NFWR437-062 | .410 (10.41) | .570 (14.48) | 1-1/32 (26.19) | .062 (1.58) |
| NFWR500-032 | .468 (11.89) | .690 (17.53) | 1-1/8 (28.58) | .031 (0.79) |
| NFWR500-062 | .468 (11.89) | .690 (17.53) | 1-1/8 (28.58) | .062 (1.58) |

Retaining Washers

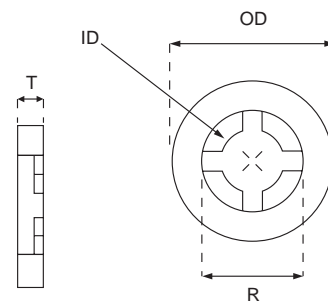
Similar to our standard flat washers, but with a specially configured inside diameter designed to grip the outside of the screw shank.

The washer slides on the screw easily, but is retained on the screw.

For use in applications requiring pre-assembly of the screw and washer to reduce final assembly cost.

Other sizes may be tooled on request.

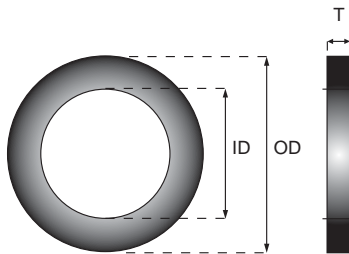
Minimum order: 1,000



Plastic Hardware

NYLON FLAT WASHERS

J38 NYLON FLAT WASHERS - METRIC



Metric Washers

Minimum order: 1,000

| PART NUMBER | ID (mm) | OD (mm) | T (mm) |
|-------------|---------|---------|--------|
| NFW2 | 2.15 | 5.00 | .080 |
| NFW2.5 | 2.65 | 5.60 | .080 |
| NFW3 | 3.20 | 8.00 | .080 |
| NFW3.5 | 3.70 | 8.00 | .080 |
| NFW4 | 4.30 | 9.00 | .080 |
| NFW5 | 5.30 | 11.00 | 1.00 |
| NFW6 | 6.40 | 12.00 | 1.50 |
| NFW8 | 8.40 | 18.00 | 2.00 |
| NFW8.5 | 8.50 | 25.00 | 2.00 |
| NFW10 | 10.50 | 22.00 | 2.50 |

PROTECTIVE PRODUCTS (BUMPERS)

| PART NUMBER | SHAPE | COLOUR | HEIGHT | | DIAMETER | | DIE CUT METHOD | CASE QTY |
|-------------|------------------------------|---------------------------|--------|------|----------|------|-----------------------|----------|
| | | | in | mm | in | mm | | |
| SJ-5001 | CYCLINDRICAL | BLACK | 0.14 | 3.56 | 0.50 | 12.7 | KISS CUT PADS - 40 | 3,000 |
| SJ-5003 | HEMISPHERICAL | WHITE, GREY, BROWN, BLACK | 0.20 | 5.1 | 0.44 | 11.2 | KISS CUT PADS - 58 | 3,000 |
| SJ-5007 | TAPERED SQUARE | BLACK | 0.10 | 2.5 | 0.40 | 10.2 | KISS CUT PADS - 108 | 3,000 |
| SJ-5008 | TAPERED SQUARE | WHITE, GREY, BROWN, BLACK | 0.12 | 3.1 | 0.50 | 12.7 | KISS CUT PADS - 108 | 3,000 |
| SJ-5009 | HEMISPHERICAL | WHITE, GREY, BROWN, BLACK | 0.40 | 10.2 | 0.88 | 22.4 | KISS CUT PADS - 24 | 1,000 |
| SJ-5012 | CYCLINDRICAL | WHITE, GREY, BROWN, BLACK | 0.14 | 3.56 | 0.50 | 12.7 | KISS CUT PADS - 56 | 3,000 |
| SJ-5014 | CYCLINDRICAL: TRUNCATED CONE | WHITE, GREY, BROWN, BLACK | 0.52 | 13.2 | 0.81 | 20.6 | 4X1 PERFORATED MATRIX | 1,000 |
| SJ-5017 | HEMISPHERICAL | WHITE, GREY, BROWN, BLACK | 0.38 | 9.7 | 0.75 | 19.0 | KISS CUT PADS - 40 | 1,000 |
| SJ-5018 | TAPERED SQUARE | WHITE, GREY, BROWN, BLACK | 0.23 | 5.8 | 0.50 | 12.7 | KISS CUT PADS - 80 | 3,000 |
| SJ-5023 | TAPERED SQUARE | WHITE, GREY, BROWN, BLACK | 0.30 | 7.6 | 0.81 | 20.6 | KISS CUT PADS - 36 | 1,000 |
| SJ-5027 | HEMISPHERICAL | WHITE, GREY, BROWN, BLACK | 0.31 | 7.9 | 0.63 | 16.0 | KISS CUT PADS - 40 | 1,000 |
| SJ-5302 | HEMISPHERICAL | TRANSPARENT | 0.085 | 2.16 | 0.312 | 7.9 | KISS CUT PADS - 144 | 3,000 |
| SJ-5303 | HEMISPHERICAL | TRANSPARENT | 0.20 | 5.1 | 0.44 | 11.2 | KISS CUT PADS - 56 | 3,000 |
| SJ-5306 | HEMISPHERICAL | TRANSPARENT | 0.15 | 3.8 | 0.375 | 9.5 | KISS CUT PADS - 54 | 3,000 |
| SJ-5312 | HEMISPHERICAL | TRANSPARENT | 0.14 | 3.56 | 0.50 | 12.7 | KISS CUT PADS - 56 | 3,000 |
| SJ-5508 | TAPERED SQUARE | WHITE, GREY, BROWN, BLACK | 0.12 | 3.1 | 0.50 | 12.7 | 8X1 PERFORATED MATRIX | 3,000 |
| SJ-5518 | TAPERED SQUARE | WHITE, GREY, BROWN, BLACK | 0.23 | 5.8 | 0.50 | 12.7 | 8X1 PERFORATED MATRIX | 3,000 |
| SJ-5523 | TAPERED SQUARE | WHITE, GREY, BROWN, BLACK | 0.30 | 7.6 | 0.81 | 20.6 | 4X1 PERFORATED MATRIX | 1,000 |
| SJ-5532 | CIRCULAR DEPRESSED | WHITE, GREY, BROWN, BLACK | 0.66 | 16.8 | 1.88 | 47.8 | 4X1 PERFORATED MATRIX | 100 |
| SJ-5705 | TAPERED SQUARE | BLACK | 0.24 | 6.1 | 1.25 | 31.8 | SEPERATE PARTS | 1,000 |
| SJ-5744 | CYCLINDRICAL | BLACK | 0.16 | 4.06 | 0.75 | 19.1 | KISS CUT PADS - 40 | 2,600 |

Plastic Hardware

NYLON SCREW ANCHORS NYLON HOSE CLAMPS

J39

NYLON SCREW ANCHORS (WALL PLUGS)

| PART NUMBER | SCREW SIZE | HOLE SIZE | LENGTH |
|-------------|------------|-------------|----------------|
| WA210875 | #6-8 | 3/16 (4.76) | 7/8 (22.23) |
| WA281700 | #10-12 | 1/4 (6.35) | 1-1/16 (26.99) |
| WA351385 | #14-16 | 5/16 (7.94) | 1-3/8 (34.93) |

Nylon Screw Anchors (Wall Anchors)

Multi-use, light duty nylon anchor for use with sheet metal or wood screws.

For use in wood, concrete, tile, brick or sheet metal.

The expanded rim prevents the loss of the wall plugs inside the hole. Non-twist fins keep them firmly in place and stop rotation.

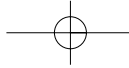
Anchors can be colour-coded for size identification.

WALL PLUG MOUNTS

| PART NUMBER | MEASUREMENTS (mm) | | | | | |
|-------------|-------------------|-----|----|------|-----|------|
| | H | H1 | W | L | L1 | L2 |
| WPM-01 | 37 | 6.3 | 10 | 12.7 | 9.7 | 12.5 |
| WPM-02 | 36.2 | 13 | 10 | 12.9 | 9.7 | 12.4 |

NYLON HOSE CLAMPS

| PART NUMBER | MAXIMUM WIRE DIAMETER | CLAMPING RANGE |
|-------------|-----------------------|-------------------------------|
| NHC0344 | 11/32 (8.73) | .360 - .406 (9.14 - 10.31) |
| NHC0406 | 13/32 (10.32) | .406 - .468 (10.31 - 11.89) |
| NHC0468 | 15/32 (11.91) | .475 - .532 (12.07 - 13.51) |
| NHC0531 | 17/32 (13.49) | .538 - .608 (13.67 - 15.44) |
| NHC0593 | 19/32 (15.08) | .597 - .665 (15.16 - 16.89) |
| NHC0750 | 3/4 (19.05) | .740 - .850 (18.8 - 21.59) |
| NHC0953 | 61/64 (24.21) | .953 - 1.085 (24.21 - 27.56) |
| NHC1031 | 1-1/32 (26.19) | 1.031 - 1.168 (26.19 - 29.67) |
| NHC1250 | 1-1/4 (31.75) | 1.250 - 1.425 (31.75 - 36.2) |
| NHC1406 | 1-13/32 (35.72) | 1.406 - 1.610 (35.71 - 40.89) |
| NHC1593 | 1-19/32 (40.48) | 1.593 - 1.812 (40.46 - 46.02) |
| NHC1687 | 1-11/16 (42.86) | 1.790 - 2.11 (45.47 - 53.59) |
| NHC1875 | 1-7/8 (47.63) | 1.870 - 2.125 (47.5 - 53.97) |
| NHC2125 | 2-1/8 (53.98) | 2.120 - 2.390 (53.85 - 60.71) |



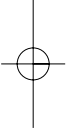
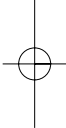
Plastic Hardware

NYLON EXPANSION NUTS

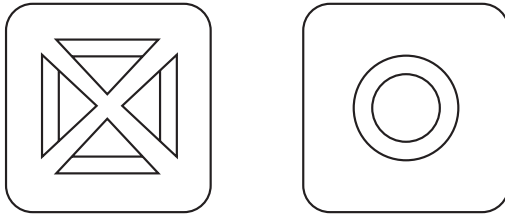
J40

NYLON EXPANSION NUTS

| SQUARE HEAD | HOLE SIZE | | PANEL THICKNESS | | SCREW SIZE | H HEAD SIZE | T HEAD HEIGHT | L LENGTH |
|-------------|-----------|-------------|-----------------|-----------|------------|-----------------------|---------------|--------------|
| | INCHES | METRIC | INCHES | METRIC | | | | |
| NENS00001 | .275/.290 | 6.99/7.37 | .031/.125 | 0.79/3.18 | 8 OR 10 | .375 (9.63) | .031 (.79) | .320 (8.13) |
| NENS00002 | .275/.290 | 6.99/7.37 | .031/.125 | 0.79/3.18 | 8 OR 10 | .375 (9.63) | .062 (1.57) | .320 (8.13) |
| NENS00003 | .275/.290 | 6.99/7.37 | .031/.125 | 0.79/3.18 | 8 OR 10 | .375 (9.63) | .125 (3.18) | .320 (8.13) |
| NENS00004 | .275/.290 | 6.99/7.37 | .031/.125 | 0.79/3.18 | 8 OR 10 | .375 (9.63) | .250 (6.35) | .320 (8.13) |
| NENS00005 | .375 | 9.53 | .031/.125 | 0.79/3.18 | 1/4 | 5/8 (15.88) | 1-1/16 (27.0) | 9/32 (7.14) |
| NENS00006 | .250/.260 | 6.35/6.61 | .031/.115 | 0.79/2.92 | 6 | .437 (11.10) | .094 (2.39) | .220 (5.59) |
| NENS00007 | .270/.270 | 6.86/6.86 | 0.62/.275 | 1.57/6.99 | 6 | .375 (9.53) | .031 (0.79) | .435 (11.05) |
| NENS00912 | .225/.255 | 5.71/6.48 | .031/.125 | 0.79/3.18 | 8 | .375 (9.53) | .187 (4.75) | .300 (7.62) |
| NENS00915 | .245/.255 | 6.22/6.48 | .031/.125 | 0.79/3.18 | 6 OR 8 | 3/8 (9.53) | 1/32 (0.79) | 9/32 (7.14) |
| NENS01000 | .250/.255 | 6.35/6.48 | .110/.125 | 2.79/3.18 | 6 | .375 (9.53) | .031 (1.79) | .265 (6.73) |
| NENS01012 | .173/.178 | 4.39/4.52 | .031/.078 | 0.79/1.98 | 4 | .218 (5.54) | .250 (6.35) | .218 (5.54) |
| NENS01014 | .250/.270 | 6.35/6.86 | .062/.155 | 1.57/3.94 | 6 | .375 (9.53) | .032 (0.81) | .312 (7.92) |
| NENS01016 | .285 | 7.24 | .078/.175 | 1.98/4.45 | 8 | .380 (9.65) | .045 (1.14) | .340 (8.64) |
| NENS01020 | .275/.280 | 6.99/7.11 | .040/.045 | 1.02/1.14 | 8 OR 10 | .370 (9.40) | .032 (0.81) | .330 (8.38) |
| NENS01021 | .375/.390 | 9.53/9.91 | .230 | 5.48 | 1/4 | 5/8 (15.88) | .080 (2.03) | .438 (11.13) |
| NENS01122 | .350/.355 | 8.89/9.02 | .218/.230 | 5.54/5.84 | 8 OR 10 | .475 (12.07) | .062 (1.57) | .421 (10.69) |
| NENS01125 | .370/.390 | 9.40/9.91 | .064/.187 | 1.57/4.75 | 10 | .609 (15.47) | .085 (2.16) | .290 (7.37) |
| NENS01126 | .305/.315 | 7.75/8.00 | .031/.175 | 0.79/4.44 | 8 | .470 (11.94) | .060 (1.52) | .300 (7.62) |
| NENS01130 | .370/.375 | 9.40/9.52 | .031/.100 | 0.79/2.54 | 12 | .620 (15.75) | .080 (2.03) | .275 (6.98) |
| NENS01135 | .173/.178 | 4.39/4.52 | .031/.078 | 0.79/1.98 | 4 | .218 (5.54) | .050 (1.27) | .218 (5.54) |
| NENS01145 | .270/.310 | 6.85/7.87 | .031/.170 | 0.79/4.32 | 8 | .405 (10.29) | .062 (1.57) | .312 (7.92) |
| NENS01150 | .310/.310 | 7.87/7.87 | .031/.170 | 0.79/4.32 | 10 | .465 (11.81) | .062 (1.57) | .295 (7.49) |
| NENS01154 | .320/.320 | 8.13/8.13 | .031/.155 | 0.79/3.94 | 10 | .650 (16.51) | .072 (1.83) | .305 (7.75) |
| NENS01155 | .245/.270 | 6.22/6.85 | .047/.095 | 1.19/2.41 | 2 | .375 (9.52) | .032 (0.81) | .240 (6.07) |
| NENS01160 | .335/.340 | 8.52/8.64 | .062/.125 | 1.58/3.17 | 8 | .512 (12.96) | .075 (1.90) | .315 (8.00) |
| NENS01165 | .270/.270 | 6.86/6.86 | .062/.125 | 1.58/3.17 | 6 | .390 (9.90) | .050 (1.27) | .275 (6.99) |
| NENS01170 | .275/.285 | 6.90/7.24 | .031/.125 | 0.79/3.17 | 4 | .375 (9.53) | .050 (1.27) | .218 (5.54) |
| NENS01171 | .200/.270 | 5.08/6.86 | .032/.156 | 0.81/3.96 | 6 | .312/.437 (7.93/11.1) | .035 (0.89) | .312 (7.93) |
| NENS01175 | .275/.280 | 6.99/7.11 | .062/.120 | 1.60/3.05 | 6 | .390 (9.90) | .055 (1.40) | .281 (7.14) |
| NENS01176 | .260/.270 | 6.61/6.86 | .093/.187 | 2.36/4.75 | 6 | .410 (10.41) | .040 (1.02) | .310 (7.87) |
| NENS01178 | .265 | 6.73 | .047/.180 | 1.19/4.57 | 8 | .375 (9.53) | .032 (0.81) | .327 (8.31) |
| NENS01179 | .365 | 9.28 | .062/.120 | 1.19/4.57 | 1/4 | 5/8 (15.88) | .080 (2.04) | 9/32 (7.14) |
| NENS01180 | .370/.375 | 9.40/9.50 | .062/.120 | 1.60/3.05 | 1/4 | .625 (15.90) | .080 (2.04) | .281 (7.14) |
| NENS01181 | .410/.410 | 10.42/10.42 | .031/.062 | 0.79/1.58 | 1/4 | .630 (16.00) | .140 (3.56) | .280 (7.12) |
| NENS01185 | .320/.335 | 8.08/8.51 | .032/.234 | 0.81/5.94 | 10 | .470 (11.94) | .055 (1.40) | .420 (10.67) |
| NENS01190 | .335/.345 | 8.51/8.76 | .062/.171 | 1.58/4.35 | 10 | .468 (11.88) | .095 (2.42) | .400 (10.16) |
| NENS01195 | .330/.365 | 8.38/9.28 | .032/.095 | 0.81/2.41 | 8 | .500 (12.70) | .094 (2.39) | .295 (7.50) |
| NENS01200 | .250/.260 | 6.35/6.61 | .062/.125 | 1.58/3.18 | 6 | .375 (9.53) | .140 (3.56) | .265 (6.73) |



Plastic Hardware

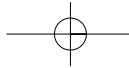


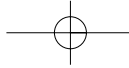
BOTTOM (DOUBLE SPLIT STYLE)

Nylon Expansion Nuts

Used with self-threading metal screws, these snap-in nuts expand and securely lock screws and assembled parts in place, connecting thin-gauge materials and eliminating cross-threading. They are corrosion and vibration resistant. Design variation is available.

Minimum order: 1,000 for full range.





NYLON EXPANSION NUTS

NYLON EXPANSION NUTS (continued)

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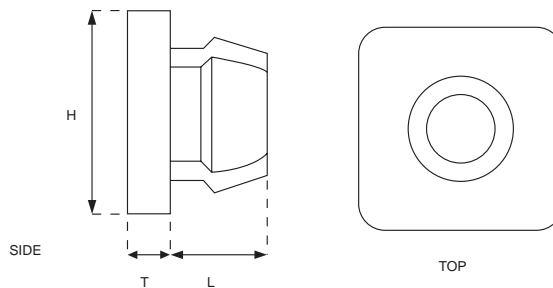
| DOUBLE SPLIT SQUARE HEAD | HOLE SIZE | | PANEL THICKNESS | | SCREW SIZE | H HEAD SIZE | T HEAD HEIGHT | L LENGTH |
|--------------------------|-----------|-----------|-----------------|-----------|------------|---------------|---------------|--------------|
| | INCHES | METRIC | INCHES | METRIC | | | | |
| NENS01010 | .377/.382 | 9.58/9.70 | .125/.130 | 3.18/3.30 | 10 | 39/64 (15.48) | .082 (2.08) | .308 (7.82) |
| NENS01015 | .228/.233 | 5.79/5.92 | .250/.271 | 6.35/6.88 | 8 | .375 (9.53) | .031 (0.79) | .406 (10.31) |
| NENS01018 | .310/.315 | 7.87/8.00 | .110/.115 | 2.79/2.92 | 8 | .437 (11.10) | .078 (1.98) | .281 (7.14) |
| NENS01019 | .305/.310 | 7.75/7.87 | .125/.135 | 3.18/3.43 | 8 | .437 (11.10) | .062 (1.57) | .281 (7.14) |
| NENS01025 | .250/.250 | 6.35/6.35 | .093/.275 | 0.91/6.99 | 8 | .375 (9.53) | .047 (1.19) | .420 (10.67) |
| NENS01128 | .330/.330 | 8.38/8.38 | .031/.125 | 0.79/3.18 | 8 | .505 (12.83) | .032 (0.81) | .275 (6.98) |
| NENS01030 | .303 | 7.70 | .031/.145 | 0.79/3.68 | 8 OR 10 | .435 (11.05) | .062 (1.57) | .270 (6.86) |

| ROUND HEAD | HOLE SIZE | | PANEL THICKNESS | | SCREW SIZE | H HEAD SIZE | T HEAD HEIGHT | L LENGTH |
|------------|-----------|-------------|-----------------|------------|------------|--------------|---------------|--------------|
| | INCHES | METRIC | INCHES | METRIC | | | | |
| NENS00009 | .270/.280 | 6.86/7.11 | .062/.165 | 1.57/4.19 | 6 | .375 (9.53) | .093 (2.36) | .297 (7.54) |
| NENS00010 | .275/.290 | 6.99/7.37 | .031/.125 | 0.79/3.18 | 8 OR 10 | .500 (12.70) | .031 (0.79) | .320 (8.13) |
| NENS00011 | .271/.290 | 6.88/7.37 | .031/.125 | 0.79/3.18 | 8 OR 10 | .500 (12.70) | .062 (1.57) | .320 (8.13) |
| NENS00012 | .271/.290 | 6.88/7.37 | .031/.125 | 0.79/3.18 | 8 OR 10 | .500 (12.70) | .125 (3.18) | .320 (8.13) |
| NENS00013 | .275/.290 | 6.99/7.37 | .031/.125 | 0.79/3.18 | 8 OR 10 | .500 (12.70) | .250 (6.35) | .320 (8.13) |
| NENS00038 | .275/.290 | 6.99/7.37 | .031/.156 | 0.79/3.96 | 8 | .500 (12.70) | .375 (9.53) | .320 (8.13) |
| NENS00072 | .275/.290 | 6.99/7.37 | .031/.156 | 0.79/3.96 | 8 OR 10 | .500 (12.70) | .708 (17.98) | .315(8.00) |
| NENS00073 | .280/.285 | 7.11/7.24 | .032/.150 | 0.81/3.81 | 6 | .500 (12.70) | 23/32 (18.26) | 11/32 (8.73) |
| NENS00100 | .275/.290 | 6.99/7.37 | .031/.156 | 0.79/3.96 | 8 OR 10 | .437 (11.10) | .032 (0.81) | .325 (8.26) |
| NENS00818 | .275/.290 | 6.99/7.37 | .031/.109 | 0.79/2.77 | 8 OR 10 | .547 (13.89) | 1.062 (26.97) | .281 (7.14) |
| NENS01013 | .285/.290 | 7.24/7.37 | .031/.094 | 0.79/2.39 | 8 | .455 (11.56) | 1.505 (38.23) | .275 (6.99) |
| NENS01121 | .350/.355 | 8.89/9.27 | .032/.125 | 0.81/3.185 | 12 | .531 (13.31) | .125 (3.18) | .281 (7.14) |
| NENS01140 | .310/.310 | 7.87/7.87 | .031/.160 | 0.79/4.06 | 10 | .500 (12.70) | .035 (0.89) | .292 (7.42) |
| NENS02200 | .425/.429 | 10.80/10.90 | .031/.110 | 0.79/2.79 | 5/16 | .740 (18.80) | .190 (4.83) | .312 (7.92) |
| NENS02300 | .415/4.30 | 10.54/10.92 | .032/.135 | 0.81/3.43 | 1/4 | .750 (19.05) | .062 (1.57) | .310 (7.87) |
| NENS02400 | .325/.330 | 8.26/8.38 | .031/.156 | 0.79/3.96 | 10 | .565 (14.35) | .062 (1.57) | .320 (8.13) |
| NENS02500 | .275 | 6.99 | .062/.170 | 1.57/4.32 | 8 | .495 (12.57) | .312 (7.92) | .325 (8.26) |

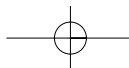
| THREE LEGGED SQUARE HEAD | HOLE SIZE | | PANEL THICKNESS | | SCREW SIZE | H HEAD SIZE | T HEAD HEIGHT | L LENGTH |
|--------------------------|-----------|-----------|-----------------|-----------|------------|--------------|---------------|-------------|
| | INCHES | METRIC | INCHES | METRIC | | | | |
| NENS03300* | .300/.300 | 7.62/7.62 | .031/.135 | 0.78/3.43 | 6 | .485 (12.32) | .055 (1.40) | .265 (6.73) |

*Three legged square head expansion nut fits round hole

ROUND & THREE LEG



Plastic Hardware





NYLON THREADED STANDOFFS

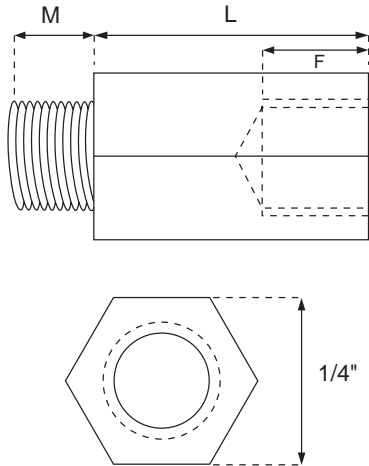
J42

NYLON MALE - FEMALE THREADED STANDOFFS

* F DIMENSION IS ADJUSTED WHEN THE LENGTH WILL NOT PERMIT FULL THREAD DEPTH AS FOLLOWS:

WHERE L = 1/4 (6.35) F = 3/16 (4.76)
 WHERE L = 3/8 (9.53) F = 1/4 (6.35)
 WHERE L = 1/2 (12.7) F = 3/8 (9.53)

| THREAD SIZE | M | F* |
|-------------|-------------|--------------|
| 4/40 (2.54) | 3/16 (4.76) | 1/4 (6.35) |
| 6/32 (4.76) | 1/4 (6.35) | 3/8 (9.53) |
| 8/32 (6.35) | 3/8 (9.53) | 7/16 (11.11) |



Nylon Male-Female Threaded Standoffs

Minimum order: 1,000

| PART NUMBER | THREAD (IN/MM) | LENGTH (IN/MM) |
|--------------|----------------|----------------|
| NMF440X.250 | 4/40 (2.54) | 1/4 (6.35) |
| NMF632X.250 | 6/32 (4.76) | 1/4 (6.35) |
| NMF832X.250 | 8/32 (6.35) | 1/4 (6.35) |
| NMF440X.375 | 4/40 (2.54) | 3/8 (9.53) |
| NMF632X.375 | 6/32 (4.76) | 3/8 (9.53) |
| NMF832X.375 | 8/32 (6.35) | 3/8 (9.53) |
| NMF440X.500 | 4/40 (2.54) | 1/2 (12.7) |
| NMF632X.500 | 6/32 (4.76) | 1/2 (12.7) |
| NMF832X.500 | 8/32 (6.35) | 1/2 (12.7) |
| NMF440X.625 | 4/40 (2.54) | 5/8 (15.88) |
| NMF632X.625 | 6/32 (4.76) | 5/8 (15.88) |
| NMF832X.625 | 8/32 (6.35) | 5/8 (15.88) |
| NMF440X.750 | 4/40 (2.54) | 3/4 (19.05) |
| NMF632X.750 | 6/32 (4.76) | 3/4 (19.05) |
| NMF832X.750 | 8/32 (6.35) | 3/4 (19.05) |
| NMF440X.875 | 4/40 (2.54) | 7/8 (22.23) |
| NMF632X.875 | 6/32 (4.76) | 7/8 (22.23) |
| NMF832X.875 | 8/32 (6.35) | 7/8 (22.23) |
| NMF440X1.000 | 4/40 (2.54) | 1 (25.4) |
| NMF632X1.000 | 6/32 (4.76) | 1 (25.4) |
| NMF832X1.000 | 8/32 (6.35) | 1 (25.4) |
| NMF440X1.125 | 4/40 (2.54) | 1-1/8 (28.58) |
| NMF632X1.125 | 6/32 (4.76) | 1-1/8 (28.58) |
| NMF832X1.125 | 8/32 (6.35) | 1-1/8 (28.58) |
| NMF440X1.250 | 4/40 (2.54) | 1-1/4 (31.75) |
| NMF632X1.250 | 6/32 (4.76) | 1-1/4 (31.75) |
| NMF832X1.250 | 8/32 (6.35) | 1-1/4 (31.75) |
| NMF440X1.375 | 4/40 (2.54) | 1-3/8 (34.93) |
| NMF632X1.375 | 6/32 (4.76) | 1-3/8 (34.93) |
| NMF832X1.375 | 8/32 (6.35) | 1-3/8 (34.93) |
| NMF440X1.500 | 4/40 (2.54) | 1-1/2 (38.1) |
| NMF632X1.500 | 6/32 (4.76) | 1-1/2 (38.1) |
| NMF832X1.500 | 8/32 (6.35) | 1-1/2 (38.1) |
| NMF440X1.625 | 4/40 (2.54) | 1-5/8 (41.28) |
| NMF632X1.625 | 6/32 (4.76) | 1-5/8 (41.28) |
| NMF832X1.625 | 8/32 (6.35) | 1-5/8 (41.28) |
| NMF440X1.750 | 4/40 (2.54) | 1-3/4 (44.45) |
| NMF632X1.750 | 6/32 (4.76) | 1-3/4 (44.45) |
| NMF832X1.750 | 8/32 (6.35) | 1-3/4 (44.45) |
| NMF440X2.000 | 4/40 (2.54) | 2 (50.8) |
| NMF632X2.000 | 6/32 (4.76) | 2 (50.8) |
| NMF832X2.000 | 8/32 (6.35) | 2 (50.8) |

Plastic Hardware