

## ROUND CLEAR HOLE SPACERS

| CLEAR HOLE            | O.D.       | L LENGTH     | BRASS CAT. NO. | ALUMINUM CAT. NO. |
|-----------------------|------------|--------------|----------------|-------------------|
| .120 (3.0)<br>For #4  | .250 (6.4) | .125 (3.2)   | 1909           | 2036              |
|                       |            | .250 (6.4)   | 1454A          | 3457              |
|                       |            | .375 (9.5)   | 1454B          | 3458              |
|                       |            | .500 (12.7)  | 1454C          | 3459              |
|                       |            | .625 (15.9)  | 1919           | 2314              |
|                       |            | .750 (19.1)  | 1454D          | 3460              |
|                       |            | .875 (22.2)  | 1920           | 3402              |
|                       |            | 1.000 (25.4) | 1454E          | 3461              |
|                       |            | 1.500 (38.1) | 1924           | 3462              |
|                       |            | 2.000 (50.8) | 1925           | 3463              |
| .140 (3.5)<br>For #6  | .250 (6.4) | .125 (3.2)   | 1934           | 3403              |
|                       |            | .250 (6.4)   | 1457A          | 3464              |
|                       |            | .375 (9.5)   | 1457B          | 3465              |
|                       |            | .500 (12.7)  | 1457C          | 3466              |
|                       |            | .625 (15.9)  | 1935           | 3429              |
|                       |            | .750 (19.1)  | 1457D          | 3467              |
|                       |            | .875 (22.2)  | 1936           | 3438              |
|                       |            | 1.000 (25.4) | 1457E          | 3468              |
|                       |            | 1.500 (38.1) | 1937           | 3469              |
|                       |            | 2.000 (50.8) | 1938           | 3470              |
| .171 (4.3)<br>For #8  | .250 (6.4) | .125 (3.2)   | 1942           | 4258              |
|                       |            | .250 (6.4)   | 1480           | 3471              |
|                       |            | .375 (9.5)   | 1481           | 3472              |
|                       |            | .500 (12.7)  | 1482           | 3473              |
|                       |            | .625 (15.9)  | 2032           | 4259              |
|                       |            | .750 (19.1)  | 1483           | 3474              |
|                       |            | .875 (22.2)  | 2033           | 4260              |
|                       |            | 1.000 (25.4) | 1484           | 3475              |
|                       |            | 1.500 (38.1) | 2034           | 3476              |
|                       |            | 2.000 (50.8) | 2035           | 3477              |
| .196 (5.0)<br>For #10 | .312 (7.9) | .250 (6.4)   | 1662           | 4261              |
|                       |            | .375 (9.5)   | 1663           | 4262              |
|                       |            | .500 (12.7)  | 1664           | 4263              |
|                       |            | .625 (15.9)  | 1665           | 4264              |
|                       |            | .750 (19.1)  | 1666           | 4265              |
|                       |            | .875 (22.2)  | 1667           | 4266              |
|                       |            | 1.000 (25.4) | 1668           | 4267              |
|                       |            | 1.500 (38.1) | 1669           | 4268              |
|                       |            | 2.000 (50.8) | 1672           | 4269              |

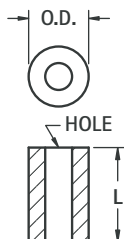
## MATERIAL:

Brass: ASTM-B16, Nickel Plate (QQ-N-290)

Aluminum: ASTM B211, Clear Iridite (MIL-C-5541)

Nylon: Nylon 6/6, UL Rated 94V-2

Phenolic: PBE Grade Natural Color Phenolic



| NYLON CAT. NO. | PHENOLIC CAT. NO. | L LENGTH     | O.D.       | CLEAR HOLE            |
|----------------|-------------------|--------------|------------|-----------------------|
| 875            | —                 | .125 (3.2)   | .250 (6.4) | .120 (3.0)<br>For #4  |
| 876            | 360               | .250 (6.4)   |            |                       |
| 877            | 361               | .375 (9.5)   |            |                       |
| 878            | 362               | .500 (12.7)  |            |                       |
| 879            | —                 | .625 (15.9)  |            |                       |
| 880            | 363               | .750 (19.1)  |            |                       |
| 881            | —                 | .875 (22.2)  |            |                       |
| 882            | 364               | 1.000 (25.4) |            |                       |
| 779            | 365               | 1.500 (38.1) |            |                       |
| —              | 366               | 2.000 (50.8) |            |                       |
| 883            | —                 | .125 (3.2)   | .250 (6.4) | .140 (3.5)<br>For #6  |
| 884            | 367               | .250 (6.4)   |            |                       |
| 885            | 368               | .375 (9.5)   |            |                       |
| 886            | 369               | .500 (12.7)  |            |                       |
| 887            | —                 | .625 (15.9)  |            |                       |
| 888            | 370               | .750 (19.1)  |            |                       |
| 889            | —                 | .875 (22.2)  |            |                       |
| 890            | 371               | 1.000 (25.4) |            |                       |
| 789            | 372               | 1.500 (38.1) |            |                       |
| —              | 373               | 2.000 (50.8) |            |                       |
| 891            | —                 | .125 (3.2)   | .250 (6.4) | .171 (4.3)<br>For #8  |
| 892            | 1490              | .250 (6.4)   |            |                       |
| 893            | 1491              | .375 (9.5)   |            |                       |
| 894            | 1492              | .500 (12.7)  |            |                       |
| 895            | —                 | .625 (15.9)  |            |                       |
| 896            | 1493              | .750 (19.1)  |            |                       |
| 897            | —                 | .875 (22.2)  |            |                       |
| 898            | 1494              | 1.000 (25.4) |            |                       |
| 799            | 374               | 1.500 (38.1) |            |                       |
| —              | 375               | 2.000 (50.8) |            |                       |
| 790            | 453               | .250 (6.4)   | .312 (7.9) | .196 (5.0)<br>For #10 |
| 791            | 454               | .375 (9.5)   |            |                       |
| 792            | 455               | .500 (12.7)  |            |                       |
| 793            | —                 | .625 (15.9)  |            |                       |
| 794            | 456               | .750 (19.1)  |            |                       |
| 795            | —                 | .875 (22.2)  |            |                       |
| 796            | 457               | 1.000 (25.4) |            |                       |
| 797            | 458               | 1.500 (38.1) |            |                       |
| —              | 459               | 2.000 (50.8) |            |                       |

## ALUMINUM ECONOMY SPACERS

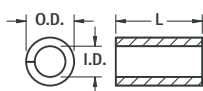
- Made of flat strip aluminum and rolled on precision equipment.
- Assures maximum bearing surface, square ends.

## Aluminum:

5052-H34 per QQ-A-250/8b



- Tight Joint on Outside Diameter



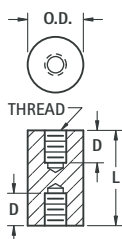
| SPACER FOR | I.D.       | O.D. REF.  |
|------------|------------|------------|
| # 4        | .120 (3.0) | .167 (4.3) |
| # 6        | .148 (3.8) | .193 (4.9) |
| # 8        | .176 (4.5) | .232 (5.9) |

| L LENGTH    | SCREW CLEARANCE |              |              |
|-------------|-----------------|--------------|--------------|
|             | # 4 CAT. NO.    | # 6 CAT. NO. | # 8 CAT. NO. |
| .187 (4.7)  | 397             | —            | —            |
| .250 (6.4)  | 398             | 405          | 412          |
| .312 (7.9)  | 399             | 406          | 413          |
| .375 (9.5)  | 400             | 407          | 414          |
| .437 (11.1) | 401             | 408          | 415          |
| .500 (12.7) | 402             | 409          | 416          |
| .625 (15.9) | 403             | 410          | 417          |

| L LENGTH     | SCREW CLEARANCE |              |              |
|--------------|-----------------|--------------|--------------|
|              | # 4 CAT. NO.    | # 6 CAT. NO. | # 8 CAT. NO. |
| .750 (19.1)  | 418             | 425          | 432          |
| .875 (22.2)  | 419             | 426          | 433          |
| 1.000 (25.4) | 420             | 427          | 434          |
| 1.250 (31.8) | 421             | 428          | 435          |
| 1.500 (38.1) | 422             | 429          | 436          |
| 1.750 (44.5) | —               | 430          | 437          |
| 2.000 (50.8) | —               | —            | 438          |

## CERAMIC STANDOFFS

- Ideal for very high temperature conditions
- Commercial and military types available
- Military types meet MIL-1-010, NL # clearly marked
- Exceptional strength in compression and tension
- Withstands very high voltage without flashover
- Special sizes available upon request



MATERIAL: Grade L5 Ceramic

| COMMERCIAL |               |             |          |             |
|------------|---------------|-------------|----------|-------------|
| CAT. NO.   | L LENGTH      | O.D.        | T THREAD | D DEPTH     |
| 7710       | .250 (6.4)    | .250 (6.4)  | 6-32     | THRU        |
| 7711       | .500 (12.7)   | .250 (6.4)  | 6-32     | .156 (4.0)  |
| 7712       | .375 (9.5)    | .375 (9.5)  | 6-32     | .156 (4.0)  |
| 7713       | .500 (12.7)   | .375 (9.5)  | 6-32     | .156 (4.0)  |
| 7714       | .500 (12.7)   | .500 (12.7) | 6-32     | .140 (3.6)  |
| 7715       | .750 (19.1)   | .500 (12.7) | 6-32     | .250 (6.4)  |
| 7716       | 1.000 (25.4)  | .500 (12.7) | 6-32     | .375 (9.5)  |
| 7717       | 1.500 (38.1)  | .500 (12.7) | 6-32     | .562 (14.3) |
| 7718       | 2.500 (63.5)  | .500 (12.7) | 6-32     | .500 (12.7) |
| 7719       | 2.500 (63.5)  | .750 (19.1) | 1/4 - 20 | .750 (19.1) |
| 7720       | 4.000 (101.6) | .750 (19.1) | 1/4 - 20 | .750 (19.1) |

## MILITARY

| CAT. NO. | L LENGTH     | O.D.         | T THREAD | D DEPTH     | NL #         |
|----------|--------------|--------------|----------|-------------|--------------|
| 7661     | .500 (12.7)  | .375 (9.5)   | 6-32     | .156 (4.0)  | NL523W01-004 |
| 7662     | .625 (15.9)  | .375 (9.5)   | 6-32     | .250 (6.4)  | NL523W01-005 |
| 7663     | .625 (15.9)  | .500 (12.7)  | 8-32     | .187 (4.7)  | NL523W02-005 |
| 7664     | .750 (19.1)  | .375 (9.5)   | 6-32     | .250 (6.4)  | NL523W01-006 |
| 7665     | .750 (19.1)  | .500 (12.7)  | 8-32     | .250 (6.4)  | NL523W02-006 |
| 7666     | 1.000 (25.4) | .375 (9.5)   | 6-32     | .375 (9.5)  | NL523W01-008 |
| 7667     | 1.000 (25.4) | .500 (12.7)  | 8-32     | .375 (9.5)  | NL523W02-008 |
| 7668     | 1.000 (25.4) | .750 (19.1)  | 10-32    | .375 (9.5)  | NL523W03-008 |
| 7669     | 1.250 (31.8) | .375 (9.5)   | 6-32     | .375 (9.5)  | NL523W01-010 |
| 7670     | 1.250 (31.8) | .500 (12.7)  | 8-32     | .375 (9.5)  | NL523W02-010 |
| 7671     | 1.250 (31.8) | 1.000 (25.4) | 1/4 - 20 | .437 (11.1) | NL523W04-010 |
| 7672     | 1.500 (38.1) | .375 (9.5)   | 6-32     | .375 (9.5)  | NL523W01-012 |
| 7673     | 1.500 (38.1) | .500 (12.7)  | 8-32     | .375 (9.5)  | NL523W02-012 |
| 7674     | 1.500 (38.1) | .750 (19.1)  | 10-32    | .375 (9.5)  | NL523W03-012 |
| 7675     | 1.500 (38.1) | 1.000 (25.4) | 1/4 - 20 | .500 (12.7) | NL523W04-012 |
| 7676     | 2.000 (50.8) | .375 (9.5)   | 6-32     | .375 (9.5)  | NL523W01-016 |
| 7677     | 2.000 (50.8) | .500 (12.7)  | 8-32     | .375 (9.5)  | NL523W02-016 |
| 7678     | 2.000 (50.8) | .750 (19.1)  | 10-32    | .375 (9.5)  | NL523W03-016 |