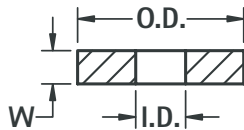


## FLAT WASHERS - NYLON & FIBRE



### MATERIAL:

Fibre: Commercial Grade per ASTM D710

Nylon: Grade 6/6 per ASTM D4066

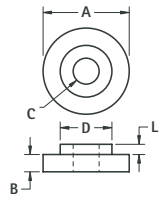
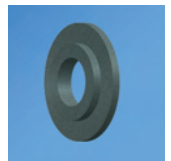
| MATERIAL | I.D.                   | O.D.         | W THICKNESS |             |             |
|----------|------------------------|--------------|-------------|-------------|-------------|
|          |                        |              | .032 (8.1)  | .047 (1.19) | .062 (1.57) |
|          |                        |              | CAT. NO.    | CAT. NO.    | CAT. NO.    |
| FIBRE    | .098 (2.49)<br>#2      | .187 (4.8)   | 3111        | 3148        | 3366        |
|          |                        | .250 (6.4)   | 3112        | 3149        | 3367        |
|          |                        | .312 (7.9)   | 3113        | 3150        | 3194        |
| NYLON    | .098 (2.49)<br>#2      | .187 (4.8)   | 3114        | 3151        | 3356        |
|          |                        | .250 (6.4)   | 3347*       | 3152        | 3357*       |
|          |                        | .312 (7.9)   | 3115        | 3153        | 3195        |
| FIBRE    | .120 (3.05)<br>#4      | .250 (6.4)   | 3116        | 3154        | 3368        |
|          |                        | .312 (7.9)   | 348         | 3155        | 3196        |
|          |                        | .375 (9.5)   | 3117        | 3156        | 3197        |
| NYLON    | .120 (3.05)<br>#4      | .250 (6.4)   | 3348        | 345         | 3358        |
|          |                        | .312 (7.9)   | 3359        | 3157        | 3198        |
|          |                        | .375 (9.5)   | 3118        | 3158        | 3200        |
| FIBRE    | .140 (3.56)<br>#6      | .250 (6.4)   | 3119        | 3159        | 3369        |
|          |                        | .312 (7.9)   | 3120        | 3160        | 3370        |
|          |                        | .375 (9.5)   | 3121        | 3161        | 3201        |
| NYLON    | .140 (3.56)<br>#6      | .250 (6.4)   | 3122        | 3162        | 3360        |
|          |                        | .312 (7.9)   | 3349        | 346         | 3361        |
|          |                        | .375 (9.5)   | 3123        | 3163        | 3202        |
| FIBRE    | .171 (4.34)<br>#8      | .312 (7.9)   | 3124        | 3164        | 3203        |
|          |                        | .375 (9.5)   | 3125        | 3165        | 3372        |
|          |                        | .437 (11.1)  | 3126        | 3166        | 3204        |
| NYLON    | .171 (4.34)<br>#8      | .312 (7.9)   | 3127        | 3167        | 3205        |
|          |                        | .375 (9.5)   | 3350        | 3168        | 3363        |
|          |                        | .437 (11.1)  | 3128        | 3169        | 3206        |
| FIBRE    | .196 (4.98)<br>#10     | .312 (7.9)   | 349         | 3170        | 3207        |
|          |                        | .375 (9.5)   | 3129        | 3171        | 3208        |
|          |                        | .437 (11.1)  | 3130        | 3172        | 3209        |
| NYLON    | .196 (4.98)<br>#10     | .500 (12.7)  | 3131        | 3173        | 3210        |
|          |                        | .312 (7.9)   | 3364        | 3174        | 3211        |
|          |                        | .375 (9.5)   | 3352        | 3175        | 3212        |
| FIBRE    | .260 (6.60)<br>.250-20 | .437 (11.1)  | 3132        | 3176        | 3213        |
|          |                        | .500 (12.7)  | 3133        | 3177        | 3214        |
|          |                        | .437 (11.1)  | 3134        | 3178        | 3215        |
| NYLON    | .260 (6.60)<br>.250-20 | .500 (12.7)  | 3135        | 3179        | 3373        |
|          |                        | .625 (15.9)  | 3136        | 3180        | 3216        |
|          |                        | .750 (19.1)  | 3137        | 3181        | 3217        |
| FIBRE    | .385 (9.65)<br>.375-24 | .437 (11.1)  | 3138        | 3182        | 3218        |
|          |                        | .500 (12.7)  | 3353        | 3183        | 3365        |
|          |                        | .625 (15.9)  | 3139        | 3184        | 3219        |
| NYLON    | .385 (9.65)<br>.375-24 | .750 (19.1)  | 3140        | 3185        | 3220        |
|          |                        | .500 (12.7)  | 3141        | 3186        | 3221        |
|          |                        | .625 (15.9)  | 3142        | 3187        | 3222        |
| FIBRE    | .385 (9.65)<br>.375-24 | .750 (19.1)  | 3143        | 3188        | 3223        |
|          |                        | 1.000 (25.4) | 3144        | 3189        | 3224        |
|          |                        | .500 (12.7)  | 3145        | 3190        | 3225        |
| NYLON    | .385 (9.65)<br>.375-24 | .625 (15.9)  | 3354        | 3191        | 3226        |
|          |                        | .750 (19.1)  | 3146        | 3192        | 3227        |
|          |                        | 1.000 (25.4) | 3147        | 3193        | 3228        |

\* .090 (2.3) I.D.

## FIBRE SHOULDER WASHERS

MATERIAL: Fibre, Commercial Grade per ASTM D710

| CAT. NO. | L          | A          | B           | C          | D           | SCREW SIZE |
|----------|------------|------------|-------------|------------|-------------|------------|
| 3229     | .025 (.64) | 250 (6.4)  | .047 (1.2)  | .093 (2.4) | .123 (3.1)  | #2         |
| 3061     | .025 (.64) | 250 (6.4)  | .047 (1.2)  | .093 (2.4) | .156 (4.0)  |            |
| 344      | .015 (.38) | 312 (7.9)  | .062 (1.57) | .125 (3.2) | .203 (5.2)  |            |
| 343      | .025 (.64) | 312 (7.9)  | .062 (1.57) | .125 (3.2) | .203 (5.2)  | #4         |
| 3062     | .031 (.79) | 250 (6.4)  | .031 (.79)  | .115 (2.9) | .187 (4.7)  |            |
| 3230     | .031 (.79) | 281 (7.1)  | .062 (1.57) | .115 (2.9) | .175 (4.4)  |            |
| 3231     | .031 (.79) | 312 (7.9)  | .062 (1.57) | .120 (3.1) | .180 (4.6)  | #6         |
| 4698     | .031 (.79) | 250 (6.4)  | .062 (1.57) | .140 (3.6) | .187 (4.7)  |            |
| 3064     | .031 (.79) | 312 (7.9)  | .062 (1.57) | .140 (3.6) | .187 (4.7)  |            |
| 3232     | .031 (.79) | 375 (9.5)  | .062 (1.57) | .140 (3.6) | .210 (5.3)  | #8         |
| 3233     | .031 (.79) | 375 (9.5)  | .062 (1.57) | .140 (3.6) | .240 (6.1)  |            |
| 3234     | .031 (.79) | 500 (12.7) | .062 (1.57) | .140 (3.6) | .240 (6.1)  |            |
| 3065     | .031 (.79) | 375 (9.5)  | .062 (1.57) | .170 (4.3) | .246 (6.2)  | #10        |
| 3066     | .031 (.79) | 417 (10.6) | .062 (1.57) | .170 (4.3) | .210 (5.3)  |            |
| 3235     | .031 (.79) | 312 (7.9)  | .062 (1.57) | .170 (4.3) | .218 (5.5)  |            |
| 3236     | .031 (.79) | 375 (9.5)  | .062 (1.57) | .170 (4.3) | .215 (5.5)  | #250-20    |
| 3237     | .031 (.79) | 500 (12.7) | .062 (1.57) | .170 (4.3) | .240 (6.1)  |            |
| 4702     | .031 (.79) | 375 (9.5)  | .062 (1.57) | .194 (4.9) | .308 (7.8)  |            |
| 3238     | .031 (.79) | 375 (9.5)  | .062 (1.57) | .194 (4.9) | .240 (6.1)  | #375-24    |
| 3239     | .031 (.79) | 500 (12.7) | .062 (1.57) | .196 (5.0) | .240 (6.1)  |            |
| 4711     | .031 (.79) | 500 (12.7) | .062 (1.57) | .253 (6.4) | .308 (7.8)  |            |
| 3240     | .031 (.79) | 625 (15.9) | .062 (1.57) | .265 (6.7) | .359 (9.1)  |            |
| 3069     | .031 (.79) | 625 (15.9) | .062 (1.57) | .385 (9.8) | .498 (12.6) |            |
| 3241     | .031 (.79) | 750 (19.1) | .062 (1.57) | .385 (9.8) | .498 (12.6) |            |



## NYLON SHOULDER WASHER/BUSHINGS

MATERIAL: Nylon 6/6 per ASTM D4066

| CAT. NO. | L           | A          | B           | C          | D          | SCREW SIZE |
|----------|-------------|------------|-------------|------------|------------|------------|
| 7680     | .025 (.64)  | 260 (6.6)  | .030 (.76)  | .095 (2.4) | .154 (3.9) | #2         |
| 3051     | .125 (3.2)  | 181 (4.6)  | .047 (1.2)  | .090 (2.3) | .120 (3.1) |            |
| 3101     | .187 (4.8)  | 181 (4.6)  | .047 (1.2)  | .090 (2.3) | .120 (3.1) |            |
| 3052     | .250 (6.4)  | 181 (4.6)  | .047 (1.2)  | .090 (2.3) | .120 (3.1) | #4         |
| 3049     | .031 (.79)  | 218 (5.5)  | .040 (1.0)  | .115 (2.9) | .135 (3.4) |            |
| 7681     | .047 (1.2)  | 250 (6.4)  | .032 (.81)  | .115 (2.9) | .185 (4.7) |            |
| 3053     | .093 (2.4)  | 235 (6.0)  | .047 (1.2)  | .115 (2.9) | .145 (3.7) | #6         |
| 3102     | .125 (3.2)  | 235 (6.0)  | .047 (1.2)  | .115 (2.9) | .145 (3.7) |            |
| 3103     | .187 (4.7)  | 235 (6.0)  | .047 (1.2)  | .115 (2.9) | .145 (3.7) |            |
| 340      | .250 (6.4)  | 235 (6.0)  | .047 (1.2)  | .115 (2.9) | .145 (3.7) | #8         |
| 7682     | .032 (.81)  | 385 (9.8)  | .062 (1.57) | .145 (3.7) | .240 (6.1) |            |
| 7683     | .032 (.81)  | 250 (6.4)  | .062 (1.57) | .140 (3.6) | .187 (4.7) |            |
| 7684     | .032 (.81)  | 312 (7.9)  | .062 (1.57) | .140 (3.6) | .187 (4.7) | #10        |
| 3054     | .125 (3.2)  | 290 (7.4)  | .047 (1.19) | .140 (3.6) | .170 (4.3) |            |
| 3104     | .187 (4.7)  | 290 (7.4)  | .047 (1.19) | .140 (3.6) | .170 (4.3) |            |
| 341      | .250 (6.4)  | 290 (7.4)  | .047 (1.19) | .140 (3.6) | .170 (4.3) | #250-20    |
| 3055     | .500 (12.7) | 290 (7.4)  | .047 (1.19) | .140 (3.6) | .170 (4.3) |            |
| 7685     | .032 (.81)  | 375 (9.5)  | .032 (.81)  | .171 (4.3) | .250 (6.4) |            |
| 3056     | .140 (3.6)  | 344 (8.7)  | .062 (1.57) | .171 (4.3) | .205 (5.2) | #8         |
| 3105     | .250 (6.4)  | 344 (8.7)  | .062 (1.57) | .171 (4.3) | .205 (5.2) |            |
| 342      | .375 (9.5)  | 344 (8.7)  | .062 (1.57) | .171 (4.3) | .205 (5.2) |            |
| 3106     | .500 (12.7) | 344 (8.7)  | .062 (1.57) | .171 (4.3) | .205 (5.2) | #10        |
| 7686     | .032 (.81)  | 375 (9.5)  | .062 (1.57) | .196 (5.0) | .308 (7.8) |            |
| 3107     | .093 (2.36) | 438 (11.1) | .062 (1.57) | .200 (5.1) | .260 (6.6) |            |
| 3108     | .250 (6.4)  | 399 (10.1) | .062 (1.57) | .200 (5.1) | .260 (6.6) | #250-20    |
| 3057     | .500 (12.7) | 399 (10.1) | .062 (1.57) | .200 (5.1) | .260 (6.6) |            |
| 3058     | .750 (19.1) | 399 (10.1) | .062 (1.57) | .200 (5.1) | .260 (6.6) |            |
| 7687     | .032 (.81)  | 437 (11.1) | .032 (.81)  | .253 (6.4) | .310 (7.9) | #8         |
| 7688     | .078 (1.98) | 492 (12.7) | .032 (.81)  | .260 (6.7) | .312 (7.9) |            |
| 3059     | .187 (4.7)  | 513 (13.0) | .062 (1.57) | .260 (6.7) | .312 (7.9) |            |
| 3109     | .250 (6.4)  | 513 (13.0) | .062 (1.57) | .260 (6.7) | .312 (7.9) | #10        |
| 3110     | .375 (9.5)  | 513 (13.0) | .062 (1.57) | .260 (6.7) | .312 (7.9) |            |
| 3060     | .500 (12.7) | 513 (13.0) | .062 (1.57) | .260 (6.7) | .312 (7.9) |            |

