

FEDERAL SUPPLY CLASS
5331

REV.
A

AS28775™

RATIONALE

AS28775A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

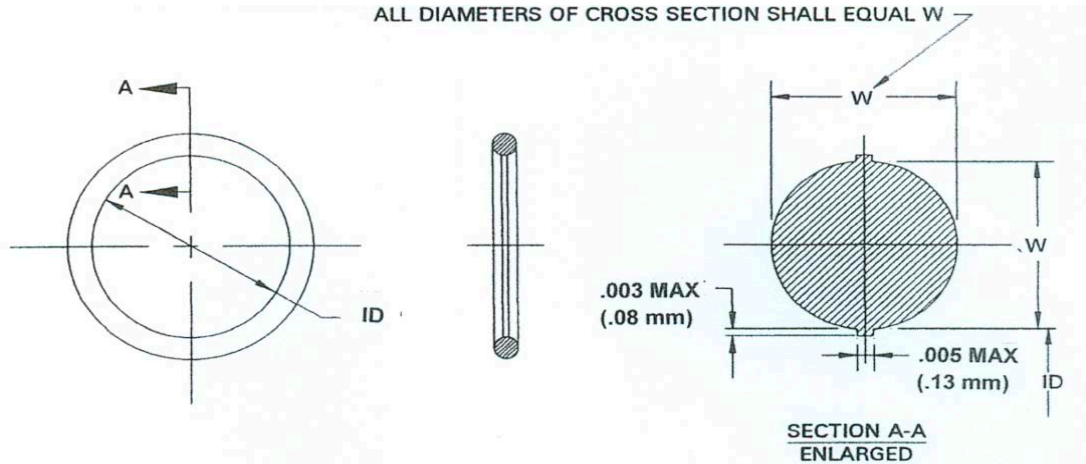
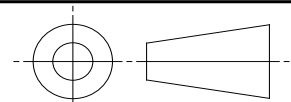


TABLE 1 - DYNAMIC OR STATIC USE

| PART NUMBER | ID (IN) | | ID (MM) | | W DIA (IN) | | W DIA (MM) | | APPROX MASS | |
|-------------|---------|------|---------|-------|------------|------|------------|------|-------------|--------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | LB/100 | KG/100 |
| MS28775-001 | .025 | .033 | 0.64 | 0.84 | .037 | .043 | 0.94 | 1.09 | .001 | 0.0004 |
| MS28775-002 | .038 | .046 | 0.97 | 1.17 | .047 | .053 | 1.19 | 1.35 | .003 | 0.0014 |
| MS28775-003 | .052 | .060 | 1.32 | 1.52 | .057 | .063 | 1.45 | 1.60 | .005 | 0.0023 |
| MS28775-004 | .065 | .075 | 1.65 | 1.91 | .067 | .073 | 1.70 | 1.85 | .008 | 0.0036 |
| MS28775-005 | .096 | .106 | 2.44 | 2.69 | .067 | .073 | 1.70 | 1.85 | .010 | 0.0045 |
| MS28775-006 | .109 | .119 | 2.77 | 3.02 | .067 | .073 | 1.70 | 1.85 | .010 | 0.0045 |
| MS28775-007 | .140 | .150 | 3.56 | 3.81 | .067 | .073 | 1.70 | 1.85 | .012 | 0.0054 |
| MS28775-008 | .171 | .181 | 4.34 | 4.60 | .067 | .073 | 1.70 | 1.85 | .014 | 0.0064 |
| MS28775-009 | .203 | .213 | 5.16 | 5.41 | .067 | .073 | 1.70 | 1.85 | .016 | 0.0073 |
| MS28775-010 | .234 | .244 | 5.94 | 6.20 | .067 | .073 | 1.70 | 1.85 | .017 | 0.0077 |
| MS28775-011 | .296 | .306 | 7.52 | 7.77 | .067 | .073 | 1.70 | 1.85 | .021 | 0.0095 |
| MS28775-012 | .359 | .369 | 9.12 | 9.37 | .067 | .073 | 1.70 | 1.85 | .024 | 0.011 |
| MS28775-104 | .107 | .117 | 2.72 | 2.97 | .100 | .106 | 2.54 | 2.69 | .026 | 0.012 |
| MS28775-105 | .138 | .148 | 3.51 | 3.76 | .100 | .106 | 2.54 | 2.69 | .029 | 0.013 |
| MS28775-106 | .169 | .179 | 4.29 | 4.55 | .100 | .106 | 2.54 | 2.69 | .034 | 0.015 |
| MS28775-107 | .201 | .211 | 5.11 | 5.36 | .100 | .106 | 2.54 | 2.69 | .037 | 0.017 |
| MS28775-108 | .232 | .242 | 5.89 | 6.15 | .100 | .106 | 2.54 | 2.69 | .041 | 0.019 |
| MS28775-109 | .294 | .304 | 7.47 | 7.72 | .100 | .106 | 2.54 | 2.69 | .048 | 0.022 |
| MS28775-110 | .357 | .367 | 9.07 | 9.32 | .100 | .106 | 2.54 | 2.69 | .056 | 0.025 |
| MS28775-111 | .419 | .429 | 10.64 | 10.90 | .100 | .106 | 2.54 | 2.69 | .063 | 0.029 |
| MS28775-112 | .482 | .492 | 12.24 | 12.50 | .100 | .106 | 2.54 | 2.69 | .071 | 0.032 |
| MS28775-113 | .542 | .556 | 13.77 | 14.12 | .100 | .106 | 2.54 | 2.69 | .079 | 0.036 |
| MS28775-114 | .603 | .621 | 15.32 | 15.77 | .100 | .106 | 2.54 | 2.69 | .086 | 0.039 |
| MS28775-115 | .665 | .683 | 16.89 | 17.35 | .100 | .106 | 2.54 | 2.69 | .093 | 0.042 |

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THIRD ANGLE PROJECTION



CUSTODIAN: A-6/A-6C



AEROSPACE STANDARD

(R) PACKING, PREFORMED - MS28775 O-RING

AS28775™
SHEET 1 OF 10

REV.
A

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ISSUED 2000-09 REVISED 2008-12 REAFFIRMED 2019-06

TABLE 1 - DYNAMIC OR STATIC USE (CONTINUED)

| PART NUMBER | ID (IN) | | ID (MM) | | W DIA (IN) | | W DIA (MM) | | APPROX MASS | |
|-------------|---------|-------|---------|--------|------------|------|------------|------|-------------|--------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | LB/100 | KG/100 |
| MS28775-116 | .728 | .746 | 18.49 | 18.95 | .100 | .106 | 2.54 | 2.69 | .101 | 0.046 |
| MS28775-210 | .724 | .744 | 18.39 | 18.90 | .135 | .143 | 3.43 | 3.63 | .191 | 0.087 |
| MS28775-211 | .786 | .806 | 19.96 | 20.47 | .135 | .143 | 3.43 | 3.63 | .205 | 0.093 |
| MS28775-212 | .849 | .869 | 21.56 | 22.07 | .135 | .143 | 3.43 | 3.63 | .219 | 0.099 |
| MS28775-213 | .911 | .931 | 23.14 | 23.65 | .135 | .143 | 3.43 | 3.63 | .232 | 0.105 |
| MS28775-214 | .974 | .994 | 24.74 | 25.25 | .135 | .143 | 3.43 | 3.63 | .246 | 0.112 |
| MS28775-215 | 1.036 | 1.056 | 26.31 | 26.82 | .135 | .143 | 3.43 | 3.63 | .260 | 0.118 |
| MS28775-216 | 1.097 | 1.121 | 27.86 | 28.47 | .135 | .143 | 3.43 | 3.63 | .274 | 0.124 |
| MS28775-217 | 1.159 | 1.183 | 29.44 | 30.05 | .135 | .143 | 3.43 | 3.63 | .287 | 0.130 |
| MS28775-218 | 1.222 | 1.246 | 31.04 | 31.65 | .135 | .143 | 3.43 | 3.63 | .302 | 0.137 |
| MS28775-219 | 1.284 | 1.308 | 32.61 | 33.22 | .135 | .143 | 3.43 | 3.63 | .315 | 0.143 |
| MS28775-220 | 1.347 | 1.371 | 34.21 | 34.82 | .135 | .143 | 3.43 | 3.63 | .328 | 0.149 |
| MS28775-221 | 1.409 | 1.433 | 35.79 | 36.40 | .135 | .143 | 3.43 | 3.63 | .342 | 0.155 |
| MS28775-222 | 1.469 | 1.499 | 37.31 | 38.07 | .135 | .143 | 3.43 | 3.63 | .356 | 0.161 |
| MS28775-325 | 1.460 | 1.490 | 37.08 | 37.85 | .205 | .215 | 5.21 | 5.46 | .843 | 0.382 |
| MS28775-326 | 1.585 | 1.615 | 40.26 | 41.02 | .205 | .215 | 5.21 | 5.46 | .906 | 0.411 |
| MS28775-327 | 1.710 | 1.740 | 43.43 | 44.20 | .205 | .215 | 5.21 | 5.46 | .969 | 0.440 |
| MS28775-328 | 1.835 | 1.865 | 46.61 | 47.37 | .205 | .215 | 5.21 | 5.46 | 1.031 | 0.468 |
| MS28775-329 | 1.957 | 1.993 | 49.71 | 50.62 | .205 | .215 | 5.21 | 5.46 | 1.094 | 0.496 |
| MS28775-330 | 2.082 | 2.118 | 52.88 | 53.80 | .205 | .215 | 5.21 | 5.46 | 1.156 | 0.524 |
| MS28775-331 | 2.207 | 2.243 | 56.06 | 56.97 | .205 | .215 | 5.21 | 5.46 | 1.219 | 0.553 |
| MS28775-332 | 2.332 | 2.368 | 59.23 | 60.15 | .205 | .215 | 5.21 | 5.46 | 1.282 | 0.582 |
| MS28775-333 | 2.455 | 2.495 | 62.36 | 63.37 | .205 | .215 | 5.21 | 5.46 | 1.344 | 0.610 |
| MS28775-334 | 2.580 | 2.620 | 65.53 | 66.55 | .205 | .215 | 5.21 | 5.46 | 1.407 | 0.638 |
| MS28775-335 | 2.705 | 2.745 | 68.71 | 69.72 | .205 | .215 | 5.21 | 5.46 | 1.469 | 0.666 |
| MS28775-336 | 2.830 | 2.870 | 71.88 | 72.90 | .205 | .215 | 5.21 | 5.46 | 1.532 | 0.695 |
| MS28775-337 | 2.951 | 2.999 | 74.96 | 76.17 | .205 | .215 | 5.21 | 5.46 | 1.594 | 0.723 |
| MS28775-338 | 3.076 | 3.124 | 78.13 | 79.35 | .205 | .215 | 5.21 | 5.46 | 1.657 | 0.752 |
| MS28775-339 | 3.201 | 3.249 | 81.31 | 82.52 | .205 | .215 | 5.21 | 5.46 | 1.719 | 0.780 |
| MS28775-340 | 3.326 | 3.374 | 84.48 | 85.70 | .205 | .215 | 5.21 | 5.46 | 1.782 | 0.808 |
| MS28775-341 | 3.451 | 3.499 | 87.66 | 88.87 | .205 | .215 | 5.21 | 5.46 | 1.845 | 0.837 |
| MS28775-342 | 3.572 | 3.628 | 90.73 | 92.15 | .205 | .215 | 5.21 | 5.46 | 1.907 | 0.865 |
| MS28775-343 | 3.697 | 3.753 | 93.90 | 95.33 | .205 | .215 | 5.21 | 5.46 | 1.970 | 0.894 |
| MS28775-344 | 3.822 | 3.878 | 97.08 | 98.50 | .205 | .215 | 5.21 | 5.46 | 2.032 | 0.922 |
| MS28775-345 | 3.947 | 4.003 | 100.25 | 101.68 | .205 | .215 | 5.21 | 5.46 | 2.095 | 0.950 |
| MS28775-346 | 4.072 | 4.128 | 103.43 | 104.85 | .205 | .215 | 5.21 | 5.46 | 2.157 | 0.978 |
| MS28775-347 | 4.195 | 4.255 | 106.55 | 108.08 | .205 | .215 | 5.21 | 5.46 | 2.220 | 1.007 |
| MS28775-348 | 4.320 | 4.380 | 109.73 | 111.25 | .205 | .215 | 5.21 | 5.46 | 2.282 | 1.035 |
| MS28775-349 | 4.445 | 4.505 | 112.90 | 114.43 | .205 | .215 | 5.21 | 5.46 | 2.345 | 1.064 |
| MS28775-425 | 4.442 | 4.508 | 112.83 | 114.50 | .269 | .281 | 6.83 | 7.14 | 4.077 | 1.849 |
| MS28775-426 | 4.567 | 4.633 | 116.00 | 117.68 | .269 | .281 | 6.83 | 7.14 | 4.185 | 1.898 |
| MS28775-427 | 4.692 | 4.758 | 119.18 | 120.85 | .269 | .281 | 6.83 | 7.14 | 4.292 | 1.947 |
| MS28775-428 | 4.817 | 4.883 | 122.35 | 124.03 | .269 | .281 | 6.83 | 7.14 | 4.399 | 1.995 |
| MS28775-429 | 4.938 | 5.012 | 125.43 | 127.30 | .269 | .281 | 6.83 | 7.14 | 4.506 | 2.044 |
| MS28775-430 | 5.063 | 5.137 | 128.60 | 130.48 | .269 | .281 | 6.83 | 7.14 | 4.614 | 2.093 |



AEROSPACE STANDARD

(R) PACKING, PREFORMED - MS28775 O-RING

AS28775™
SHEET 2 OF 10REV.
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TABLE 1 - DYNAMIC OR STATIC USE (CONTINUED)

| PART NUMBER | ID (IN) | | ID (MM) | | W DIA (IN) | | W DIA (MM) | | APPROX MASS | |
|-------------|---------|--------|---------|--------|------------|------|------------|------|-------------|--------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | LB/100 | KG/100 |
| MS28775-431 | 5.188 | 5.262 | 131.78 | 133.65 | .269 | .281 | 6.83 | 7.14 | 4.721 | 2.141 |
| MS28775-432 | 5.313 | 5.387 | 134.95 | 136.83 | .269 | .281 | 6.83 | 7.14 | 4.828 | 2.190 |
| MS28775-433 | 5.438 | 5.512 | 138.13 | 140.00 | .269 | .281 | 6.83 | 7.14 | 4.935 | 2.239 |
| MS28775-434 | 5.563 | 5.637 | 141.30 | 143.18 | .269 | .281 | 6.83 | 7.14 | 5.042 | 2.287 |
| MS28775-435 | 5.688 | 5.762 | 144.48 | 146.35 | .269 | .281 | 6.83 | 7.14 | 5.150 | 2.336 |
| MS28775-436 | 5.813 | 5.887 | 147.65 | 149.53 | .269 | .281 | 6.83 | 7.14 | 5.257 | 2.395 |
| MS28775-437 | 5.938 | 6.012 | 150.83 | 152.70 | .269 | .281 | 6.83 | 7.14 | 5.364 | 2.433 |
| MS28775-438 | 6.185 | 6.265 | 157.10 | 159.13 | .269 | .281 | 6.83 | 7.14 | 5.579 | 2.531 |
| MS28775-439 | 6.435 | 6.515 | 163.45 | 165.48 | .269 | .281 | 6.83 | 7.14 | 5.794 | 2.628 |
| MS28775-440 | 6.685 | 6.765 | 169.80 | 171.83 | .269 | .281 | 6.83 | 7.14 | 6.008 | 2.725 |
| MS28775-441 | 6.935 | 7.015 | 176.15 | 178.18 | .269 | .281 | 6.83 | 7.14 | 6.223 | 2.823 |
| MS28775-442 | 7.180 | 7.270 | 182.37 | 184.66 | .269 | .281 | 6.83 | 7.14 | 6.438 | 2.920 |
| MS28775-443 | 7.430 | 7.520 | 188.72 | 191.01 | .269 | .281 | 6.83 | 7.14 | 6.652 | 3.017 |
| MS28775-444 | 7.680 | 7.770 | 195.07 | 197.36 | .269 | .281 | 6.83 | 7.14 | 6.867 | 3.115 |
| MS28775-445 | 7.930 | 8.020 | 201.42 | 203.71 | .269 | .281 | 6.83 | 7.14 | 7.081 | 3.212 |
| MS28775-446 | 8.420 | 8.530 | 213.87 | 216.66 | .269 | .281 | 6.83 | 7.14 | 7.510 | 3.407 |
| MS28775-447 | 8.920 | 9.030 | 226.57 | 229.36 | .269 | .281 | 6.83 | 7.14 | 7.940 | 3.602 |
| MS28775-448 | 9.420 | 9.530 | 239.27 | 242.06 | .269 | .281 | 6.83 | 7.14 | 8.369 | 3.796 |
| MS28775-449 | 9.920 | 10.030 | 251.97 | 254.76 | .269 | .281 | 6.83 | 7.14 | 8.798 | 3.991 |
| MS28775-450 | 10.415 | 10.535 | 264.54 | 267.59 | .269 | .281 | 6.83 | 7.14 | 9.227 | 4.185 |
| MS28775-451 | 10.915 | 11.035 | 277.24 | 280.29 | .269 | .281 | 6.83 | 7.14 | 9.656 | 4.380 |
| MS28775-452 | 11.415 | 11.535 | 289.94 | 292.99 | .269 | .281 | 6.83 | 7.14 | 10.086 | 4.575 |
| MS28775-453 | 11.915 | 12.035 | 302.64 | 305.69 | .269 | .281 | 6.83 | 7.14 | 10.515 | 4.770 |
| MS28775-454 | 12.415 | 12.535 | 315.34 | 318.39 | .269 | .281 | 6.83 | 7.14 | 10.944 | 4.964 |
| MS28775-455 | 12.915 | 13.035 | 328.04 | 331.09 | .269 | .281 | 6.83 | 7.14 | 11.373 | 5.159 |
| MS28775-456 | 13.405 | 13.545 | 340.49 | 344.04 | .269 | .281 | 6.83 | 7.14 | 11.802 | 5.353 |
| MS28775-457 | 13.905 | 14.045 | 353.19 | 356.74 | .269 | .281 | 6.83 | 7.14 | 12.231 | 5.548 |
| MS28775-458 | 14.405 | 14.545 | 365.89 | 369.44 | .269 | .281 | 6.83 | 7.14 | 12.660 | 5.742 |
| MS28775-459 | 14.905 | 15.045 | 378.59 | 382.14 | .269 | .281 | 6.83 | 7.14 | 13.090 | 5.933 |
| MS28775-460 | 15.405 | 15.545 | 391.29 | 394.84 | .269 | .281 | 6.83 | 7.14 | 13.519 | 6.132 |

TABLE 2 - DYNAMIC OR STATIC USE *

| PART NUMBER | ID (IN) | | ID (MM) | | W DIA (IN) | | W DIA (MM) | | APPROX MASS | |
|-------------|---------|------|---------|-------|------------|------|------------|------|-------------|--------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | LB/100 | KG/100 |
| MS28775-102 | .044 | .054 | 1.12 | 1.37 | .100 | .106 | 2.54 | 2.69 | .018 | 0.008 |
| MS28775-103 | .076 | .086 | 1.93 | 2.18 | .100 | .106 | 2.54 | 2.69 | .022 | 0.010 |
| MS28775-201 | .166 | .176 | 4.22 | 4.47 | .135 | .143 | 3.43 | 3.63 | .068 | 0.031 |
| MS28775-202 | .229 | .239 | 5.82 | 6.07 | .135 | .143 | 3.43 | 3.63 | .082 | 0.037 |
| MS28775-203 | .291 | .301 | 7.39 | 7.65 | .135 | .143 | 3.43 | 3.63 | .095 | 0.043 |
| MS28775-204 | .354 | .364 | 8.99 | 9.25 | .135 | .143 | 3.43 | 3.63 | .109 | 0.049 |
| MS28775-205 | .416 | .426 | 10.57 | 10.82 | .135 | .143 | 3.43 | 3.63 | .123 | 0.056 |
| MS28775-206 | .479 | .489 | 12.17 | 12.42 | .135 | .143 | 3.43 | 3.63 | .137 | 0.062 |
| MS28775-207 | .539 | .553 | 13.69 | 14.05 | .135 | .143 | 3.43 | 3.63 | .150 | 0.068 |
| MS28775-208 | .600 | .618 | 15.24 | 15.70 | .135 | .143 | 3.43 | 3.63 | .164 | 0.074 |
| MS28775-209 | .662 | .680 | 16.81 | 17.27 | .135 | .143 | 3.43 | 3.63 | .178 | 0.081 |

* THESE O-RING SIZES ARE NOT SUPPORTED BY AS4716 AND ARE INTENDED FOR NONSTANDARD APPLICATIONS.

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|---|---|--|----------------------------------|-------------------------|
|  | AEROSPACE STANDARD | | AS28775™ SHEET 3 OF 10 | REV. A |
| | (R) PACKING, PREFORMED - MS28775 O-RING | | | |