

ORIGINAL BIG GUN

PLASTIC TAPER RING NOZZLES FOR THE 100 SERIES BIG GUN® SPRINKLERS

| | | |
|--|--|--|
| 12700 12469 12782 | 100TR PLASTIC CAP + BODY 100TR PLASTIC CAP 100TR PLASTIC BODY | |
| 12470-0127 12470-014 12470-016 12470-017 12470-018 12470-019 12470-020 12470-021 12470-022 12470-023 12470-024 | 12.7 mm TR100 PLASTIC NOZZLE 14 mm TR100 PLASTIC NOZZLE 16 mm TR100 PLASTIC NOZZLE 17 mm TR100 PLASTIC NOZZLE 18 mm TR100 PLASTIC NOZZLE 19 mm TR100 PLASTIC NOZZLE 20 mm TR100 PLASTIC NOZZLE 21 mm TR100 PLASTIC NOZZLE 22 mm TR100 PLASTIC NOZZLE 23 mm TR100 PLASTIC NOZZLE 24 mm TR100 PLASTIC NOZZLE | |



100 TAPER RING NOZZLE – 24° TRAJECTORY – U.S. UNITS

| Pressure (PSI) | 0.50" | | 0.55" | | 0.63" | | 0.67" | | 0.71" | | 0.75" | | 0.79" | | 0.83" | | 0.87" | | 0.91" | | 0.95" | |
|----------------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|
| | GPM | RAD. (FT) |
| 40 | 39 | 94 | 49 | 98 | 67 | 106 | 76 | 110 | 86 | 113 | 98 | 117 | 110 | 121 | 125 | 125 | 136 | 127 | 151 | 130 | 166 | 138 |
| 50 | 44 | 99 | 55 | 105 | 75 | 112 | 85 | 116 | 97 | 120 | 110 | 125 | 123 | 129 | 139 | 133 | 152 | 136 | 169 | 140 | 185 | 144 |
| 60 | 50 | 107 | 62 | 112 | 83 | 120 | 94 | 123 | 106 | 127 | 120 | 132 | 135 | 137 | 153 | 141 | 167 | 143 | 186 | 147 | 203 | 152 |
| 70 | 52 | 111 | 65 | 117 | 89 | 125 | 101 | 130 | 114 | 134 | 130 | 139 | 146 | 143 | 165 | 148 | 180 | 150 | 200 | 155 | 219 | 160 |
| 80 | 56 | 114 | 70 | 121 | 95 | 130 | 108 | 135 | 122 | 139 | 139 | 144 | 156 | 149 | 176 | 153 | 193 | 157 | 214 | 162 | 235 | 168 |
| 90 | 60 | 119 | 75 | 125 | 101 | 134 | 115 | 139 | 130 | 145 | 147 | 150 | 166 | 154 | 187 | 159 | 204 | 162 | 227 | 167 | 249 | 173 |
| 100 | 63 | 124 | 79 | 130 | 107 | 139 | 121 | 144 | 137 | 149 | 155 | 154 | 175 | 159 | 197 | 164 | 216 | 167 | 240 | 172 | 262 | 178 |
| 110 | 67 | 129 | 82 | 135 | 112 | 144 | 127 | 149 | 143 | 154 | 163 | 159 | 183 | 163 | 207 | 168 | 226 | 171 | 251 | 177 | 275 | 182 |

100 TAPER RING NOZZLE – 24° TRAJECTORY – METRIC UNITS

| Pressure (bar) | 12.7 mm | | | 14 mm | | | 16 mm | | | 17 mm | | | 18 mm | | | 19 mm | | | 20 mm | | | 21 mm | | | 22 mm | | | 23 mm | | | 24 mm | | |
|----------------|---------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|------|------|
| | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | | | |
| 2.75 | 2.5 | 8.9 | 28.5 | 3.1 | 11.2 | 30.0 | 4.2 | 15.2 | 32.5 | 4.8 | 17.3 | 33.5 | 5.4 | 19.6 | 34.5 | 6.2 | 22.3 | 35.5 | 6.9 | 24.9 | 37.0 | 7.9 | 28.3 | 38.0 | 8.6 | 30.8 | 38.5 | 9.5 | 34.3 | 39.5 | 10.4 | 37.6 | 41.5 |
| 3 | 2.6 | 9.3 | 29.0 | 3.2 | 11.7 | 31.0 | 4.4 | 15.9 | 33.0 | 5.0 | 18.0 | 34.0 | 5.7 | 20.5 | 35.0 | 6.5 | 23.2 | 36.5 | 7.2 | 26.1 | 38.0 | 8.2 | 29.6 | 39.0 | 9.0 | 32.2 | 39.5 | 9.9 | 35.8 | 40.5 | 10.9 | 39.3 | 42.5 |
| 3.5 | 2.8 | 10.1 | 30.5 | 3.5 | 12.6 | 32.0 | 4.8 | 17.2 | 34.5 | 5.4 | 19.5 | 35.5 | 6.1 | 22.1 | 37.0 | 7.0 | 25.1 | 38.0 | 7.8 | 28.2 | 39.5 | 8.9 | 31.9 | 40.5 | 9.7 | 34.8 | 41.5 | 10.7 | 38.7 | 42.5 | 11.8 | 42.4 | 44.5 |
| 4 | 3.0 | 10.8 | 31.5 | 3.8 | 13.5 | 33.5 | 5.1 | 18.4 | 36.0 | 5.8 | 20.9 | 37.0 | 6.6 | 23.6 | 38.5 | 7.5 | 26.8 | 39.5 | 8.4 | 30.1 | 41.5 | 9.5 | 34.1 | 42.5 | 10.3 | 37.2 | 43.0 | 11.5 | 41.4 | 44.5 | 12.6 | 45.3 | 46.0 |
| 4.5 | 3.2 | 11.5 | 33.0 | 4.0 | 14.4 | 34.5 | 5.4 | 19.5 | 37.0 | 6.2 | 22.2 | 38.5 | 7.0 | 25.1 | 40.0 | 7.9 | 28.5 | 41.5 | 8.9 | 32.0 | 43.0 | 10.0 | 36.2 | 44.0 | 11.0 | 39.5 | 45.0 | 12.2 | 43.9 | 46.0 | 13.4 | 48.1 | 48.0 |
| 5 | 3.4 | 12.2 | 34.0 | 4.2 | 15.2 | 36.0 | 5.7 | 20.6 | 38.5 | 6.5 | 23.4 | 40.0 | 7.3 | 26.4 | 41.0 | 8.3 | 30.0 | 42.5 | 9.4 | 33.7 | 44.0 | 10.6 | 38.1 | 45.5 | 11.6 | 41.7 | 46.5 | 12.9 | 46.3 | 48.0 | 14.1 | 50.7 | 49.5 |
| 5.5 | 3.6 | 12.8 | 35.0 | 4.4 | 15.9 | 37.0 | 6.0 | 21.6 | 39.5 | 6.8 | 24.5 | 41.0 | 7.7 | 27.7 | 42.5 | 8.7 | 31.5 | 44.0 | 9.8 | 35.4 | 45.5 | 11.1 | 40.0 | 47.0 | 12.1 | 43.7 | 47.5 | 13.5 | 48.6 | 49.0 | 14.8 | 53.2 | 51.0 |
| 6 | 3.7 | 13.4 | 36.0 | 4.6 | 16.7 | 38.0 | 6.3 | 22.6 | 40.5 | 7.1 | 25.6 | 42.0 | 8.0 | 29.0 | 43.5 | 9.1 | 32.9 | 45.0 | 10.3 | 37.0 | 46.5 | 11.6 | 41.8 | 48.0 | 12.7 | 45.7 | 49.0 | 14.1 | 50.7 | 50.5 | 15.4 | 55.6 | 52.0 |
| 6.5 | 3.9 | 14.0 | 37.0 | 4.8 | 17.3 | 39.0 | 6.5 | 23.5 | 41.5 | 7.4 | 26.7 | 43.0 | 8.4 | 30.1 | 45.0 | 9.5 | 34.2 | 46.5 | 10.7 | 38.5 | 47.5 | 12.1 | 43.5 | 49.0 | 13.2 | 47.5 | 50.0 | 14.7 | 52.8 | 52.0 | 16.1 | 57.8 | 53.5 |
| 7 | 4.0 | 14.5 | 38.0 | 5.0 | 18.0 | 40.0 | 6.8 | 24.4 | 43.0 | 7.7 | 27.7 | 44.5 | 8.7 | 31.3 | 46.0 | 9.9 | 35.5 | 47.5 | 11.1 | 40.0 | 48.5 | 12.5 | 45.1 | 50.0 | 13.7 | 49.3 | 51.0 | 15.2 | 54.8 | 53.0 | 16.7 | 60.0 | 54.5 |
| 7.5 | 4.2 | 15.0 | 39.0 | 5.2 | 18.7 | 40.5 | 7.0 | 25.3 | 44.0 | 8.0 | 28.7 | 45.5 | 9.0 | 32.4 | 47.0 | 10.2 | 36.8 | 48.0 | 11.5 | 41.4 | 49.5 | 13.0 | 46.7 | 51.0 | 14.2 | 51.1 | 52.0 | 15.8 | 56.8 | 54.0 | 17.3 | 62.1 | 55.5 |

Radii are based on a 24° trajectory. The lower trajectory angles result in better wind fighting ability, but reduced throw distances. Throw reduction depends upon nozzle flow rate. In general, the throw distance is reduced approximately 3% with each 3° drop in trajectory angle. Use of the wedge insert to modify trajectory will affect distance. Big Gun® performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions or other factors. Test riser height of 3 feet (0.91 meters) above measurement surface. No representation regarding droplet condition, uniformity, application rate, or suitability for a particular application is made herein. Pressure refers to pressure at the nozzle.

TAPER RING NOZZLE. This nozzle combines the changeability of a Ring Nozzle with some of the efficiency of a Taper Bore Nozzle.

ORIGINAL BIG GUN

PLASTIC TAPER RING NOZZLES FOR THE 150 SERIES BIG GUN® SPRINKLERS



- | | |
|--------------|---------------------------------|
| 12701 | 150TR PLASTIC CAP + BODY |
| 12467 | 150TR PLASTIC CAP |
| 12781 | 150TR PLASTIC BODY |
| | |
| 12468-021 | 21 mm TR150 PLASTIC NOZZLE |
| 12468-022 | 22 mm TR150 PLASTIC NOZZLE |
| 12468-023 | 23 mm TR150 PLASTIC NOZZLE |
| 12468-024 | 24 mm TR150 PLASTIC NOZZLE |
| 12468-025 | 25 mm TR150 PLASTIC NOZZLE |
| 12468-026 | 26 mm TR150 PLASTIC NOZZLE |
| 12468-027 | 27 mm TR150 PLASTIC NOZZLE |
| 12468-028 | 28 mm TR150 PLASTIC NOZZLE |
| 12468-029 | 29 mm TR150 PLASTIC NOZZLE |
| 12468-030 | 30 mm TR150 PLASTIC NOZZLE |
| 12468-031 | 31 mm TR150 PLASTIC NOZZLE |
| 12468-032 | 32 mm TR150 PLASTIC NOZZLE |
| 12468-033 | 33 mm TR150 PLASTIC NOZZLE |
| 12468-034 | 34 mm TR150 PLASTIC NOZZLE |



150 TAPER RING NOZZLE — 24° TRAJECTORY — U.S. UNITS

| Pres- sure (PSI) | 0.83" | | 0.87" | | 0.91" | | 0.95" | | 0.98" | | 1.02" | | 1.06" | | 1.10" | | 1.14" | | 1.18" | | 1.22" | | 1.26" | | 1.30" | | 1.34" | |
|------------------------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|
| | 21 mm | | 22 mm | | 23 mm | | 24 mm | | 25 mm | | 26 mm | | 27 mm | | 28 mm | | 29 mm | | 30 mm | | 31 mm | | 32 mm | | 33 mm | | 34 mm | |
| | GPM | RAD. (FT) |
| 50 | 123 | 131 | 135 | 135 | 149 | 139 | 164 | 143 | 179 | 147 | 196 | 151 | 214 | 155 | 233 | 159 | 253 | 163 | 274 | 167 | 296 | 170 | 319 | 174 | 344 | 177 | 369 | 179 |
| 60 | 134 | 138 | 148 | 142 | 163 | 147 | 179 | 151 | 196 | 155 | 214 | 159 | 234 | 163 | 255 | 167 | 277 | 172 | 301 | 176 | 325 | 180 | 350 | 184 | 377 | 187 | 405 | 189 |
| 70 | 144 | 146 | 159 | 150 | 176 | 154 | 194 | 158 | 212 | 162 | 231 | 166 | 253 | 170 | 276 | 175 | 300 | 179 | 325 | 183 | 351 | 187 | 378 | 191 | 407 | 194 | 437 | 197 |
| 80 | 154 | 150 | 170 | 155 | 188 | 160 | 207 | 165 | 226 | 169 | 247 | 173 | 271 | 178 | 295 | 182 | 320 | 187 | 347 | 191 | 375 | 195 | 404 | 199 | 435 | 202 | 467 | 205 |
| 90 | 164 | 155 | 181 | 160 | 199 | 165 | 220 | 170 | 241 | 175 | 262 | 179 | 287 | 184 | 313 | 189 | 340 | 194 | 368 | 198 | 398 | 202 | 429 | 206 | 461 | 209 | 495 | 212 |
| 100 | 173 | 160 | 191 | 165 | 210 | 170 | 231 | 175 | 254 | 179 | 277 | 183 | 303 | 188 | 330 | 193 | 358 | 198 | 388 | 203 | 419 | 207 | 452 | 212 | 486 | 215 | 522 | 218 |
| 110 | 181 | 165 | 200 | 170 | 220 | 175 | 243 | 180 | 266 | 184 | 290 | 188 | 317 | 194 | 346 | 199 | 375 | 204 | 407 | 208 | 440 | 213 | 474 | 217 | 510 | 220 | 548 | 223 |
| 120 | 189 | 170 | 209 | 175 | 230 | 180 | 253 | 185 | 277 | 189 | 303 | 193 | 331 | 199 | 361 | 204 | 392 | 209 | 425 | 213 | 459 | 218 | 495 | 222 | 533 | 225 | 572 | 229 |

150 TAPER RING NOZZLE — 24° TRAJECTORY — METRIC UNITS

| Pres- sure (bar) | 21 mm | | | 22 mm | | | 23 mm | | | 24 mm | | | 25 mm | | | 26 mm | | | 27 mm | | | 28 mm | | | 29 mm | | | 30 mm | | | 31 mm | | | 32 mm | | | 33 mm | | | 34 mm | | |
|------------------------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|--------------------|----------|-------|-------|------|
| | 0.83" | | | 0.87" | | | 0.91" | | | 0.95" | | | 0.98" | | | 1.02" | | | 1.06" | | | 1.10" | | | 1.14" | | | 1.18" | | | 1.22" | | | 1.26" | | | 1.30" | | | 1.34" | | |
| | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | L/S | M ³ /HR | RAD. (M) | | | |
| 3.5 | 7.8 | 28.0 | 40.5 | 8.6 | 30.9 | 41.5 | 9.5 | 34.1 | 43.0 | 10.4 | 37.5 | 43.5 | 11.4 | 41.0 | 45.0 | 12.4 | 44.8 | 46.0 | 13.6 | 49.0 | 47.0 | 14.8 | 53.3 | 48.5 | 16.1 | 57.9 | 50.0 | 17.4 | 62.8 | 51.0 | 18.8 | 67.8 | 52.5 | 20.3 | 73.1 | 53.0 | 21.9 | 78.7 | 54.5 | 23.5 | 84.5 | 55.0 |
| 4 | 8.3 | 29.9 | 41.5 | 9.2 | 33.0 | 43.0 | 10.1 | 36.4 | 44.5 | 11.1 | 40.1 | 45.5 | 12.2 | 43.8 | 47.0 | 13.3 | 47.8 | 48.0 | 14.5 | 52.3 | 49.0 | 15.8 | 57.0 | 50.5 | 17.2 | 61.9 | 52.0 | 18.6 | 67.1 | 53.0 | 20.1 | 72.5 | 54.0 | 21.7 | 78.1 | 55.5 | 23.4 | 84.2 | 56.0 | 25.1 | 90.3 | 57.0 |
| 4.5 | 8.8 | 31.7 | 43.0 | 9.7 | 35.0 | 44.5 | 10.7 | 38.6 | 46.0 | 11.8 | 42.5 | 47.0 | 12.9 | 46.5 | 48.5 | 14.1 | 50.7 | 49.5 | 15.4 | 55.5 | 51.0 | 16.8 | 60.5 | 52.5 | 18.2 | 65.7 | 53.5 | 19.8 | 71.2 | 55.0 | 21.4 | 76.9 | 56.0 | 23.0 | 82.9 | 57.0 | 24.8 | 89.3 | 58.0 | 26.6 | 95.8 | 59.0 |
| 5 | 9.3 | 33.4 | 44.5 | 10.2 | 36.9 | 46.0 | 11.3 | 40.7 | 47.5 | 12.4 | 44.8 | 48.5 | 13.6 | 49.0 | 50.0 | 14.9 | 53.5 | 51.0 | 16.3 | 58.5 | 52.5 | 17.7 | 63.8 | 54.0 | 19.2 | 69.2 | 55.5 | 20.8 | 75.1 | 56.5 | 22.5 | 81.1 | 57.5 | 24.3 | 87.4 | 59.0 | 26.1 | 94.1 | 60.0 | 28.1 | 101.0 | 60.5 |
| 5.5 | 9.7 | 35.1 | 45.5 | 10.7 | 38.7 | 47.0 | 11.8 | 42.6 | 49.0 | 13.0 | 47.0 | 50.0 | 14.3 | 51.4 | 51.5 | 15.6 | 56.1 | 52.5 | 17.0 | 61.4 | 54.0 | 18.6 | 66.9 | 55.5 | 20.2 | 72.6 | 57.0 | 21.9 | 78.7 | 58.0 | 23.6 | 85.0 | 59.5 | 25.5 | 91.6 | 60.5 | 27.4 | 98.7 | 61.5 | 29.4 | 105.9 | 62.5 |
| 6 | 10.2 | 36.6 | 47.0 | 11.2 | 40.4 | 48.5 | 12.4 | 44.5 | 50.0 | 13.6 | 49.0 | 51.5 | 14.9 | 53.7 | 52.5 | 16.3 | 58.6 | 54.0 | 17.8 | 64.1 | 55.5 | 19.4 | 69.9 | 57.0 | 21.1 | 75.8 | 58.5 | 22.8 | 82.2 | 59.5 | 24.7 | 88.8 | 61.0 | 26.6 | 95.7 | 62.0 | 28.6 | 103.0 | 63.0 | 30.7 | 110.6 | 64.0 |
| 6.5 | 10.6 | 38.1 | 48.0 | 11.7 | 42.0 | 49.5 | 12.9 | 46.3 | 51.5 | 14.2 | 51.0 | 52.5 | 15.5 | 55.9 | 54.0 | 16.9 | 61.0 | 55.0 | 18.5 | 66.7 | 57.0 | 20.2 | 72.7 | 58.0 | 21.9 | 78.9 | 59.5 | 23.8 | 85.6 | 61.0 | 25.7 | 92.5 | 62.0 | 27.7 | 99.7 | 63.5 | 29.8 | 107.2 | 64.5 | 32.0 | 115.2 | 65.5 |
| 7 | 11.0 | 39.5 | 49.0 | 12.1 | 43.6 | 51.0 | 13.3 | 48.0 | 52.5 | 14.7 | 52.9 | 54.0 | 16.1 | 58.0 | 55.0 | 17.6 | 63.3 | 56.5 | 19.2 | 69.2 | 58.0 | 21.0 | 75.5 | 59.5 | 22.8 | 81.9 | 61.0 | 24.7 | 88.8 | 62.5 | 26.7 | 96.0 | 63.5 | 28.7 | 103.4 | 65.0 | 30.9 | 111.3 | 65.5 | 33.2 | 119.5 | 67.0 |
| 7.5 | 11.4 | 40.9 | 50.5 | 12.5 | 45.2 | 52.0 | 13.8 | 49.7 | 53.5 | 15.2 | 54.8 | 55.0 | 16.7 | 60.0 | 56.0 | 18.2 | 65.5 | 57.5 | 19.9 | 71.7 | 59.0 | 21.7 | 78.1 | 60.5 | 23.6 | 84.8 | 62.0 | 25.5 | 91.9 | 63.5 | 27.6 | 99.3 | 65.0 | 29.7 | 107.1 | 66.0 | 32.0 | 115.2 | 67.0 | 34.4 | 123.7 | 68.0 |
| 8 | 11.7 | 42.2 | 51.5 | 13.0 | 46.6 | 53.0 | 14.3 | 51.3 | 54.5 | 15.7 | 56.6 | 56.0 | 17.2 | 62.0 | 57.0 | 18.8 | 67.6 | 58.5 | 20.6 | 74.0 | 60.0 | 22.4 | 80.7 | 61.5 | 24.3 | 87.6 | 63.0 | 26.4 | 94.9 | 64.5 | 28.5 | 102.6 | 66.0 | 30.7 | 110.6 | 67.0 | 33.0 | 119.0 | 68.0 | 35.5 | 127.7 | 69.0 |

Radii are based on a 24° trajectory. The lower trajectory angles result in better wind fighting ability, but reduced throw distances. Throw reduction depends upon nozzle flow rate. In general, the throw distance is reduced approximately 3% with each 3° drop in trajectory angle. Use of the wedge insert to modify trajectory will affect distance. Big Gun® performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions or other factors. Test riser height of 3 feet (0.91 meters) above measurement surface. No representation regarding droplet condition, uniformity, application rate, or suitability for a particular application is made herein. Pressure refers to pressure at the nozzle. TAPER RING NOZZLE. This nozzle combines the changeability of a Ring Nozzle with some of the efficiency of a Taper Bore Nozzle.