

Performance: US Units

NOZZLES

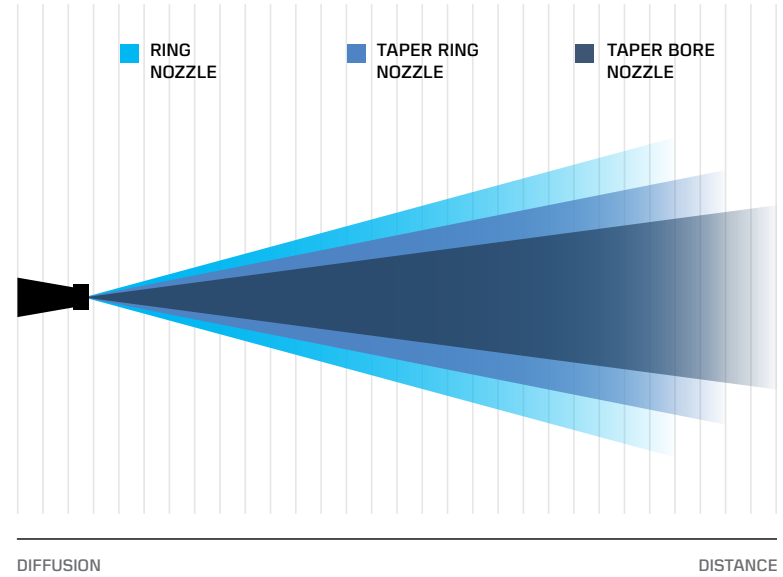
TAPER BORE

TAPER RING

RING



STREAM DIFFUSION



75 SERIES

■ TAPER RING NOZZLE: 24° Trajectory

| Pressure PSI | 0.4 in 10.2 mm | | 0.45 in 11.4 mm | | 0.5 in 12.7 mm | | 0.55 in 14.0 mm | | 0.6 in 15.2 mm | | 0.65 in 16.5 mm | | 0.7 in 17.8 mm | | 0.75 in 19.1 mm | | 0.8 in 20.3 mm | |
|-----------------|-------------------|-----------|--------------------|-----------|-------------------|-----------|--------------------|-----------|-------------------|-----------|--------------------|-----------|-------------------|-----------|--------------------|-----------|-------------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 25 | - | - | - | - | - | - | 42 | 73 | 50 | 78 | 59 | 81 | 69 | 84 | 80 | 87 | 91 | 91 |
| 30 | - | - | - | - | 37 | 79 | 45 | 79 | 55 | 83 | 64 | 86 | 75 | 91 | 87 | 94 | 99 | 96 |
| 35 | - | - | 32 | 77 | 40 | 82 | 49 | 86 | 59 | 89 | 69 | 96 | 81 | 98 | 93 | 101 | 106 | 104 |
| 40 | 27 | 75 | 35 | 80 | 43 | 86 | 52 | 90 | 63 | 95 | 74 | 99 | 87 | 102 | 98 | 107 | 112 | 111 |
| 45 | 29 | 78 | 37 | 84 | 46 | 90 | 56 | 95 | 67 | 99 | 79 | 103 | 91 | 107 | 104 | 112 | 118 | 115 |
| 50 | 30 | 81 | 39 | 87 | 48 | 93 | 59 | 98 | 70 | 102 | 83 | 106 | 95 | 110 | 109 | 115 | 123 | 119 |
| 55 | 32 | 83 | 41 | 90 | 50 | 97 | 62 | 102 | 74 | 107 | 87 | 111 | 100 | 115 | 115 | 120 | 130 | 124 |
| 60 | 33 | 85 | 42 | 92 | 53 | 99 | 64 | 104 | 77 | 110 | 91 | 114 | 104 | 119 | 120 | 123 | 136 | 127 |
| 65 | 35 | 86 | 44 | 95 | 55 | 103 | 67 | 108 | 80 | 114 | 95 | 119 | 109 | 124 | 125 | 127 | 142 | 132 |
| 70 | 36 | 88 | 45 | 97 | 57 | 105 | 69 | 111 | 83 | 116 | 98 | 122 | 113 | 127 | 129 | 130 | 147 | 135 |
| 75 | 37 | 90 | 47 | 101 | 59 | 109 | 72 | 114 | 86 | 120 | 101 | 125 | 117 | 131 | 134 | 134 | 153 | 139 |
| 80 | 39 | 91 | 49 | 104 | 61 | 111 | 74 | 117 | 89 | 122 | 105 | 128 | 121 | 133 | 138 | 137 | 158 | 142 |

100 SERIES

TAPER BORE NOZZLE: 24° Trajectory

| Pressure PSI | 0.5 in 12.7 mm | | 0.55 in 14.0 mm | | 0.6 in 15.2 mm | | 0.65 in 16.5 mm | | 0.7 in 17.8 mm | | 0.75 in 19.1 mm | | 0.8 in 20.3 mm | | 0.85 in 21.6 mm | | 0.9 in 22.9 mm | | 1 in 25.4 mm | |
|-----------------|-------------------|-----------|--------------------|-----------|-------------------|-----------|--------------------|-----------|-------------------|-----------|--------------------|-----------|-------------------|-----------|--------------------|-----------|-------------------|-----------|-----------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 40 | 47 | 96 | 57 | 101 | 66 | 107 | 78 | 111 | 91 | 115 | 103 | 120 | 118 | 125 | 134 | 128 | 152 | 131 | - | - |
| 50 | 50 | 103 | 64 | 108 | 74 | 113 | 87 | 118 | 100 | 123 | 115 | 128 | 130 | 133 | 150 | 137 | 165 | 140 | 204 | 150 |
| 60 | 55 | 108 | 69 | 114 | 81 | 120 | 96 | 125 | 110 | 130 | 126 | 135 | 143 | 140 | 164 | 144 | 182 | 148 | 224 | 158 |
| 70 | 60 | 113 | 75 | 119 | 88 | 125 | 103 | 132 | 120 | 138 | 136 | 142 | 155 | 148 | 177 | 151 | 197 | 155 | 243 | 169 |
| 80 | 64 | 118 | 79 | 124 | 94 | 130 | 110 | 137 | 128 | 143 | 146 | 148 | 165 | 153 | 189 | 157 | 210 | 163 | 258 | 177 |
| 90 | 68 | 123 | 83 | 129 | 100 | 135 | 117 | 142 | 135 | 148 | 155 | 153 | 175 | 158 | 201 | 163 | 223 | 168 | 274 | 181 |
| 100 | 72 | 128 | 87 | 134 | 106 | 140 | 123 | 147 | 143 | 153 | 163 | 158 | 185 | 163 | 212 | 168 | 235 | 173 | 289 | 186 |
| 110 | 76 | 133 | 92 | 139 | 111 | 145 | 129 | 152 | 150 | 158 | 171 | 162 | 195 | 168 | 222 | 172 | 247 | 178 | 304 | 190 |

TAPER RING NOZZLE: 24° Trajectory

| Pressure PSI | 0.50 in 12.7 mm | | 0.55 in 14.0 mm | | 0.63 in 16.0 mm | | 0.67 in 17.0 mm | | 0.71 in 18.0 mm | | 0.75 in 19.0 mm | | 0.79 in 20.0 mm | | 0.83 in 21.0 mm | | 0.87 in 22.0 mm | | 0.91 in 23.0 mm | | 0.94 in 24.0 mm | |
|-----------------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 40 | 43 | 94 | 53 | 98 | 67 | 106 | 76 | 110 | 86 | 113 | 98 | 117 | 110 | 121 | 125 | 125 | 136 | 127 | 151 | 130 | 166 | 138 |
| 50 | 48 | 99 | 59 | 105 | 75 | 112 | 85 | 116 | 97 | 120 | 110 | 125 | 123 | 129 | 139 | 133 | 152 | 136 | 169 | 140 | 185 | 144 |
| 60 | 53 | 107 | 65 | 112 | 83 | 120 | 94 | 123 | 106 | 127 | 120 | 132 | 135 | 137 | 153 | 141 | 167 | 143 | 186 | 147 | 203 | 152 |
| 70 | 57 | 111 | 70 | 117 | 89 | 125 | 101 | 130 | 114 | 134 | 130 | 139 | 146 | 143 | 165 | 148 | 180 | 150 | 200 | 155 | 219 | 160 |
| 80 | 61 | 114 | 75 | 121 | 95 | 130 | 108 | 135 | 122 | 139 | 139 | 144 | 156 | 149 | 176 | 153 | 193 | 157 | 214 | 162 | 235 | 168 |
| 90 | 65 | 119 | 80 | 125 | 101 | 134 | 115 | 139 | 130 | 145 | 147 | 150 | 166 | 154 | 187 | 159 | 204 | 162 | 227 | 167 | 249 | 173 |
| 100 | 69 | 124 | 84 | 130 | 107 | 139 | 121 | 144 | 137 | 149 | 155 | 154 | 175 | 159 | 197 | 164 | 216 | 167 | 240 | 172 | 262 | 178 |
| 110 | 72 | 129 | 88 | 135 | 112 | 144 | 127 | 149 | 143 | 154 | 163 | 159 | 183 | 163 | 207 | 168 | 226 | 171 | 251 | 177 | 275 | 182 |

RING NOZZLE: 24° Trajectory

| Pressure PSI | 0.604 in 15.3 mm | | 0.71 in 18.0 mm | | 0.77 in 19.6 mm | | 0.81 in 20.6 mm | | 0.86 in 21.8 mm | | 0.89 in 22.6 mm | | 0.93 in 23.6 mm | | 0.96 in 24.4 mm | |
|-----------------|---------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 40 | 47 | 93 | 66 | 104 | 78 | 106 | 91 | 108 | 103 | 112 | 118 | 118 | 134 | 119 | 152 | 121 |
| 50 | 52 | 100 | 74 | 110 | 88 | 113 | 100 | 115 | 115 | 120 | 129 | 125 | 150 | 128 | 167 | 130 |
| 60 | 57 | 105 | 81 | 118 | 96 | 120 | 110 | 123 | 125 | 130 | 141 | 135 | 164 | 138 | 183 | 140 |
| 70 | 61 | 110 | 88 | 123 | 104 | 125 | 118 | 130 | 135 | 138 | 152 | 145 | 177 | 148 | 198 | 150 |
| 80 | 65 | 115 | 94 | 128 | 111 | 133 | 127 | 138 | 145 | 143 | 163 | 150 | 189 | 153 | 211 | 158 |
| 90 | 69 | 120 | 99 | 133 | 117 | 138 | 134 | 143 | 154 | 148 | 173 | 155 | 201 | 158 | 224 | 163 |
| 100 | 72 | 123 | 105 | 135 | 124 | 140 | 142 | 148 | 162 | 153 | 182 | 160 | 212 | 163 | 236 | 168 |
| 110 | 75 | 125 | 110 | 138 | 130 | 145 | 149 | 153 | 170 | 158 | 191 | 163 | 222 | 168 | 248 | 173 |

Performance: US Units

150 SERIES

TAPER BORE NOZZLE: 24° Trajectory

| Pressure PSI | 0.7 in 17.8 mm | | 0.8 in 20.3 mm | | 0.9 in 22.9 mm | | 1 in 25.4 mm | | 1.1 in 27.9 mm | | 1.2 in 30.5 mm | | 1.3 in 33.0 mm | | 1.4 in 35.6 mm | |
|-----------------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-----------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 50 | 100 | 125 | 130 | 135 | 165 | 145 | 205 | 155 | 255 | 165 | 300 | 173 | 350 | 180 | 408 | 187 |
| 60 | 110 | 133 | 143 | 143 | 182 | 153 | 225 | 163 | 275 | 173 | 330 | 183 | 385 | 190 | 446 | 198 |
| 70 | 120 | 140 | 155 | 150 | 197 | 160 | 245 | 170 | 295 | 180 | 355 | 190 | 415 | 198 | 483 | 206 |
| 80 | 128 | 145 | 165 | 155 | 210 | 168 | 260 | 178 | 315 | 188 | 380 | 198 | 445 | 205 | 516 | 214 |
| 90 | 135 | 150 | 175 | 160 | 223 | 173 | 275 | 183 | 335 | 195 | 405 | 205 | 475 | 213 | 547 | 221 |
| 100 | 143 | 155 | 185 | 165 | 235 | 178 | 290 | 188 | 355 | 200 | 425 | 210 | 500 | 220 | 577 | 229 |
| 110 | 150 | 160 | 195 | 170 | 247 | 183 | 305 | 193 | 370 | 205 | 445 | 215 | 525 | 225 | 605 | 236 |
| 120 | 157 | 165 | 204 | 175 | 258 | 188 | 320 | 198 | 385 | 210 | 465 | 220 | 545 | 230 | 632 | 241 |

TAPER RING NOZZLE: 24° Trajectory

| Pressure PSI | 0.71 in 18.0 mm | | 0.75 in 19.0 mm | | 0.79 in 20.0 mm | | 0.83 in 21.0 mm | | 0.87 in 22.0 mm | | 0.91 in 23.0 mm | | 0.94 in 24.0 mm | | 0.98 in 25.0 mm | | 1.02 in 26.0 mm | | 1.06 in 27.0 mm | | 1.10 in 28.0 | | 1.14 in 29.0 mm | | 1.18 in 30.0 mm | |
|-----------------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|-----------------|-----------|--------------------|-----------|--------------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 50 | 88 | 119 | 99 | 123 | 111 | 127 | 123 | 131 | 135 | 135 | 149 | 139 | 164 | 143 | 179 | 147 | 196 | 151 | 214 | 155 | 233 | 159 | 253 | 163 | 274 | 167 |
| 60 | 97 | 125 | 109 | 130 | 121 | 134 | 134 | 138 | 148 | 142 | 163 | 147 | 179 | 151 | 196 | 155 | 214 | 159 | 234 | 163 | 255 | 167 | 277 | 172 | 301 | 176 |
| 70 | 105 | 134 | 117 | 138 | 131 | 142 | 144 | 146 | 159 | 150 | 176 | 154 | 194 | 158 | 212 | 162 | 231 | 166 | 253 | 170 | 276 | 175 | 300 | 179 | 325 | 183 |
| 80 | 112 | 135 | 126 | 140 | 140 | 145 | 154 | 150 | 170 | 155 | 188 | 160 | 207 | 165 | 226 | 169 | 247 | 173 | 271 | 178 | 295 | 182 | 320 | 187 | 347 | 191 |
| 90 | 118 | 140 | 133 | 145 | 148 | 150 | 164 | 155 | 181 | 160 | 199 | 165 | 220 | 170 | 241 | 175 | 262 | 179 | 287 | 184 | 313 | 189 | 340 | 194 | 368 | 198 |
| 100 | 125 | 144 | 141 | 149 | 156 | 154 | 173 | 160 | 191 | 165 | 210 | 170 | 231 | 175 | 254 | 179 | 277 | 183 | 303 | 188 | 330 | 193 | 358 | 198 | 388 | 203 |
| 110 | 131 | 150 | 147 | 155 | 164 | 160 | 181 | 165 | 200 | 170 | 220 | 175 | 243 | 180 | 266 | 184 | 290 | 188 | 317 | 194 | 346 | 199 | 375 | 204 | 407 | 208 |
| 120 | 137 | 155 | 154 | 160 | 171 | 165 | 189 | 170 | 209 | 175 | 230 | 180 | 253 | 185 | 277 | 189 | 303 | 193 | 331 | 199 | 361 | 204 | 392 | 209 | 425 | 213 |

TAPER RING NOZZLE: 24° Trajectory

| Pressure PSI | 1.22 in 31.0 mm | | 1.26 in 32.0 mm | | 1.30 in 33.0 mm | | 1.34 in 34.0 mm | |
|-----------------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 50 | 296 | 170 | 319 | 174 | 344 | 177 | 369 | 179 |
| 60 | 325 | 180 | 350 | 184 | 377 | 187 | 405 | 189 |
| 70 | 351 | 187 | 378 | 191 | 407 | 194 | 437 | 197 |
| 80 | 375 | 195 | 404 | 199 | 435 | 202 | 467 | 205 |
| 90 | 398 | 202 | 429 | 206 | 461 | 209 | 495 | 212 |
| 100 | 419 | 207 | 452 | 212 | 486 | 215 | 522 | 218 |
| 110 | 440 | 213 | 474 | 217 | 510 | 220 | 548 | 223 |
| 120 | 459 | 218 | 495 | 222 | 533 | 225 | 572 | 229 |

RING NOZZLE: 24° Trajectory

| Pressure PSI | 0.86 in 21.8 mm | | 0.97 in 24.6 mm | | 1.08 in 27.4 mm | | 1.18 in 30.0 mm | | 1.26 in 32.0 mm | | 1.34 in 34.0 mm | | 1.41 in 35.8 mm | |
|-----------------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 50 | 100 | 123 | 130 | 133 | 165 | 143 | 205 | 150 | 255 | 160 | 300 | 168 | 350 | 175 |
| 60 | 110 | 130 | 143 | 140 | 182 | 150 | 225 | 158 | 275 | 168 | 330 | 175 | 385 | 183 |
| 70 | 120 | 135 | 155 | 145 | 197 | 155 | 245 | 165 | 295 | 175 | 355 | 183 | 415 | 190 |
| 80 | 128 | 140 | 165 | 150 | 210 | 160 | 260 | 170 | 315 | 180 | 380 | 190 | 445 | 198 |
| 90 | 135 | 145 | 175 | 155 | 223 | 165 | 275 | 175 | 335 | 185 | 405 | 195 | 475 | 203 |
| 100 | 143 | 150 | 185 | 160 | 235 | 170 | 290 | 180 | 355 | 190 | 425 | 200 | 500 | 208 |
| 110 | 150 | 155 | 195 | 165 | 247 | 175 | 305 | 185 | 370 | 195 | 445 | 205 | 525 | 213 |
| 120 | 157 | 158 | 204 | 168 | 258 | 180 | 320 | 190 | 385 | 200 | 465 | 210 | 545 | 218 |

200 SERIES

TAPER BORE NOZZLE: 27° Trajectory

| Pressure PSI | 1.05 in 26.7 mm | | 1.1 in 27.9 mm | | 1.2 in 30.5 mm | | 1.3 in 33.0 mm | | 1.4 in 35.6 mm | | 1.5 in 38.1 mm | | 1.6 in 40.6 mm | | 1.75 in 44.5 | | 1.9 in 48.3 mm | |
|-----------------|--------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-----------------|-----------|-------------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 60 | 250 | 173 | 285 | 178 | 330 | 188 | 385 | 195 | 445 | 205 | 515 | 215 | 585 | 223 | 695 | 235 | 825 | 248 |
| 70 | 270 | 180 | 310 | 190 | 355 | 198 | 415 | 205 | 480 | 215 | 555 | 225 | 630 | 233 | 755 | 248 | 890 | 258 |
| 80 | 290 | 188 | 330 | 198 | 380 | 205 | 445 | 215 | 515 | 225 | 590 | 235 | 675 | 243 | 805 | 258 | 950 | 268 |
| 90 | 310 | 195 | 350 | 205 | 405 | 213 | 475 | 223 | 545 | 233 | 625 | 243 | 715 | 253 | 855 | 268 | 1005 | 278 |
| 100 | 325 | 200 | 370 | 210 | 425 | 220 | 500 | 230 | 575 | 240 | 660 | 250 | 755 | 260 | 900 | 275 | 1060 | 288 |
| 110 | 340 | 205 | 390 | 215 | 445 | 225 | 525 | 235 | 605 | 248 | 695 | 258 | 790 | 268 | 945 | 283 | 1110 | 295 |
| 120 | 355 | 210 | 405 | 220 | 465 | 230 | 545 | 240 | 630 | 253 | 725 | 265 | 825 | 275 | 985 | 290 | 1160 | 303 |
| 130 | 370 | 213 | 425 | 223 | 485 | 233 | 565 | 243 | 655 | 258 | 755 | 270 | 860 | 280 | 1025 | 295 | 1210 | 310 |

RING NOZZLE: 27° Trajectory

| Pressure PSI | 1.29 in 32.8 | | 1.46 in 37.1 mm | | 1.56 in 39.6 mm | | 1.66 in 42.2 mm | | 1.74 in 44.2 mm | | 1.83 in 46.5 mm | | 1.93 in 49.0 mm | |
|-----------------|-----------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|
| | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) | gpm | Rad. (ft) |
| 50 | 230 | 163 | 300 | 178 | 350 | 185 | 410 | 195 | 470 | 203 | 535 | 210 | 640 | 218 |
| 60 | 250 | 170 | 330 | 185 | 385 | 195 | 445 | 205 | 515 | 213 | 585 | 220 | 695 | 228 |
| 70 | 270 | 178 | 355 | 193 | 415 | 203 | 480 | 213 | 555 | 220 | 630 | 228 | 755 | 238 |
| 80 | 290 | 185 | 380 | 200 | 445 | 210 | 515 | 220 | 590 | 228 | 675 | 235 | 805 | 245 |
| 90 | 310 | 190 | 405 | 208 | 475 | 218 | 545 | 228 | 625 | 235 | 715 | 243 | 855 | 253 |
| 100 | 325 | 195 | 425 | 213 | 500 | 223 | 575 | 233 | 660 | 240 | 755 | 250 | 900 | 260 |
| 110 | 340 | 200 | 445 | 218 | 525 | 228 | 605 | 238 | 695 | 245 | 790 | 255 | 945 | 268 |
| 120 | 355 | 205 | 465 | 223 | 545 | 233 | 630 | 243 | 725 | 250 | 825 | 260 | 985 | 273 |
| 130 | 370 | 208 | 485 | 225 | 565 | 235 | 655 | 245 | 755 | 253 | 860 | 263 | 1025 | 275 |

Performance: Metric Units

75 SERIES

■ TAPER RING NOZZLE: 24° Trajectory

| Pressure BAR | 0.40 in 10.2 mm | | 0.45 in 11.4 mm | | 0.50 in 12.7 mm | | 0.55 in 14.0 mm | | 0.60 in 15.2 mm | | 0.65 in 16.5 mm | | 0.70 in 17.8 mm | | 0.75 in 19.1 mm | | 0.80 in 20.3 mm | |
|-----------------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| | m ³ /hr | Rad. (m) | m ³ /hr | Rad. (m) | m ³ /hr | Rad. (m) | m ³ /hr | Rad. (m) | m ³ /hr | Rad. (m) | m ³ /hr | Rad. (m) | m ³ /hr | Rad. (m) | m ³ /hr | Rad. (m) | m ³ /hr | Rad. (m) |
| 1.75 | - | - | - | - | - | - | 9.5 | 22.5 | 11.5 | 24.0 | 13.4 | 25.0 | 15.7 | 26.0 | 18.2 | 27.0 | 20.6 | 28.0 |
| 2.0 | - | - | - | - | 8.3 | 24.0 | 10.2 | 24.0 | 12.2 | 25.0 | 14.4 | 26.5 | 16.8 | 27.5 | 19.3 | 28.5 | 22.0 | 29.5 |
| 2.5 | - | - | 7.5 | 24.0 | 9.3 | 25.5 | 11.4 | 26.0 | 13.7 | 27.5 | 16.0 | 28.5 | 18.7 | 29.5 | 21.5 | 31.0 | 24.4 | 32.0 |
| 3.0 | 6.4 | 23.5 | 8.2 | 25.0 | 10.2 | 27.0 | 12.4 | 28.0 | 14.9 | 29.5 | 17.6 | 31.0 | 20.4 | 32.0 | 23.4 | 33.0 | 26.6 | 34.5 |
| 3.5 | 6.9 | 24.5 | 8.9 | 26.5 | 11.0 | 28.5 | 13.4 | 30.0 | 16.1 | 31.5 | 19.0 | 33.0 | 22.0 | 34.0 | 25.2 | 35.5 | 28.6 | 36.5 |
| 4.0 | 7.4 | 25.5 | 9.5 | 27.5 | 11.8 | 30.0 | 14.3 | 31.5 | 17.2 | 33.0 | 20.3 | 34.5 | 23.4 | 36.0 | 26.8 | 37.0 | 30.5 | 38.5 |
| 4.5 | 7.9 | 26.5 | 10.0 | 29.0 | 12.5 | 31.5 | 15.2 | 33.0 | 18.2 | 34.5 | 21.5 | 36.0 | 24.8 | 37.5 | 28.3 | 39.0 | 32.2 | 40.0 |
| 5.0 | 8.3 | 27.0 | 10.5 | 30.0 | 13.2 | 32.5 | 16.0 | 34.5 | 19.2 | 36.0 | 22.7 | 37.5 | 26.1 | 39.0 | 29.8 | 40.5 | 33.9 | 41.5 |
| 5.5 | 8.8 | 27.5 | 11.0 | 31.5 | 13.8 | 34.0 | 16.8 | 35.5 | 20.1 | 37.0 | 23.8 | 39.0 | 27.3 | 40.5 | 31.2 | 41.5 | 35.5 | 43.0 |



100 SERIES

TAPER BORE NOZZLE: 24° Trajectory

| Pressure BAR | 0.50 in 12.7 mm | | 0.55 in 14.0 mm | | 0.60 in 15.2 mm | | 0.65 in 16.5 mm | | 0.70 in 17.8 mm | | 0.75 in 19.1 mm | | 0.80 in 20.3 mm | | 0.85 in 21.6 mm | | 0.90 in 22.9 mm | | 1.00 in 25.4 mm | |
|-----------------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) |
| 2.75 | 10.4 | 29.5 | 13.0 | 31.0 | 14.9 | 32.5 | 17.7 | 34.0 | 20.5 | 35.0 | 23.3 | 36.5 | 26.6 | 38.0 | 30.4 | 39.0 | 34.0 | 40.0 | - | - |
| 3.0 | 10.8 | 30.0 | 13.5 | 31.5 | 15.6 | 33.0 | 18.5 | 34.5 | 21.4 | 36.0 | 24.4 | 37.5 | 27.7 | 39.0 | 31.7 | 40.0 | 35.5 | 41.0 | 43.3 | 43.5 |
| 3.5 | 11.7 | 31.0 | 14.5 | 33.0 | 16.9 | 34.5 | 20.0 | 36.0 | 23.1 | 37.5 | 26.3 | 39.0 | 30.0 | 40.5 | 34.3 | 42.0 | 38.3 | 43.0 | 46.8 | 46.0 |
| 4.0 | 12.5 | 32.5 | 15.5 | 34.0 | 18.1 | 36.0 | 21.3 | 37.5 | 24.7 | 39.0 | 28.2 | 40.5 | 32.0 | 42.5 | 36.6 | 43.5 | 40.8 | 44.5 | 50.0 | 48.0 |
| 4.5 | 13.2 | 33.5 | 16.3 | 35.5 | 19.3 | 37.0 | 22.6 | 39.0 | 26.2 | 40.5 | 29.9 | 42.0 | 34.0 | 44.0 | 38.9 | 45.0 | 43.3 | 46.5 | 53.0 | 50.0 |
| 5.0 | 13.9 | 34.5 | 17.1 | 36.5 | 20.3 | 38.5 | 23.8 | 40.5 | 27.6 | 42.0 | 31.5 | 43.5 | 35.8 | 45.0 | 41.0 | 46.5 | 45.5 | 48.0 | 55.9 | 52.0 |
| 5.5 | 14.6 | 36.0 | 17.9 | 38.0 | 21.4 | 39.5 | 25.0 | 41.5 | 29.0 | 43.5 | 33.1 | 45.0 | 37.5 | 46.5 | 43.0 | 48.0 | 47.7 | 49.5 | 58.7 | 53.5 |
| 6.0 | 15.2 | 37.0 | 18.7 | 39.0 | 22.3 | 41.0 | 26.1 | 43.0 | 30.3 | 44.5 | 34.5 | 46.0 | 39.2 | 47.5 | 44.9 | 49.0 | 49.8 | 50.5 | 61.3 | 55.0 |
| 6.5 | 15.8 | 38.0 | 19.4 | 40.0 | 23.3 | 42.0 | 27.2 | 44.0 | 31.5 | 46.0 | 36.0 | 47.5 | 40.8 | 49.0 | 46.7 | 50.5 | 51.8 | 52.0 | 63.8 | 56.0 |
| 7.0 | 16.4 | 39.0 | 20.0 | 41.0 | 24.2 | 43.0 | 28.2 | 45.0 | 32.7 | 47.0 | 37.3 | 48.5 | 42.3 | 50.0 | 48.4 | 51.5 | 53.7 | 53.0 | 66.2 | 57.0 |
| 7.5 | 17.0 | 40.0 | 20.7 | 42.0 | 25.1 | 44.0 | 29.2 | 46.0 | 33.8 | 47.5 | 38.6 | 49.5 | 43.8 | 51.0 | 50.1 | 52.5 | 55.5 | 54.0 | 68.5 | 57.5 |

TAPER RING NOZZLE: 24° Trajectory

| Pressure BAR | 0.50 in 12.7 mm | | 0.55 in 14.0 mm | | 0.63 in 16.0 mm | | 0.67 in 17.0 mm | | 0.71 in 18.0 mm | | 0.75 in 19.0 mm | | 0.79 in 20.0 mm | | 0.83 in 21.0 mm | | 0.87 in 22.0 mm | | 0.91 in 23.0 mm | | 0.94 in 24.0 mm | |
|-----------------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) |
| 2.75 | 9.7 | 28.5 | 12.0 | 30.0 | 15.2 | 32.5 | 17.3 | 33.5 | 19.6 | 34.5 | 22.3 | 35.5 | 24.9 | 37.0 | 28.3 | 38.0 | 30.8 | 38.5 | 34.3 | 39.5 | 37.6 | 41.5 |
| 3.0 | 10.2 | 29.0 | 12.5 | 30.5 | 15.9 | 33.0 | 18.0 | 34.0 | 20.5 | 35.0 | 23.2 | 36.5 | 26.1 | 38.0 | 29.5 | 39.0 | 32.2 | 39.5 | 35.8 | 40.5 | 39.3 | 42.5 |
| 3.5 | 11.0 | 30.5 | 13.5 | 32.0 | 17.2 | 34.5 | 19.5 | 35.5 | 22.1 | 37.0 | 25.1 | 38.0 | 28.2 | 39.5 | 31.9 | 40.5 | 34.8 | 41.5 | 38.7 | 42.5 | 42.4 | 44.5 |
| 4.0 | 11.8 | 31.5 | 14.5 | 33.5 | 18.4 | 36.0 | 20.9 | 37.0 | 23.6 | 38.5 | 26.8 | 40.0 | 30.1 | 41.0 | 34.1 | 42.5 | 37.2 | 43.0 | 41.4 | 44.5 | 45.3 | 46.0 |
| 4.5 | 12.5 | 33.0 | 15.4 | 34.5 | 19.5 | 37.0 | 22.2 | 38.5 | 25.1 | 40.0 | 28.5 | 41.5 | 32.0 | 42.5 | 36.2 | 44.0 | 39.5 | 45.0 | 43.9 | 46.0 | 48.1 | 47.5 |
| 5.0 | 13.2 | 34.0 | 16.2 | 35.5 | 20.6 | 38.5 | 23.4 | 39.5 | 26.4 | 41.0 | 30.0 | 42.5 | 33.7 | 44.0 | 38.1 | 45.5 | 41.7 | 46.5 | 46.3 | 47.5 | 50.7 | 49.5 |
| 5.5 | 13.9 | 35.0 | 17.0 | 37.0 | 21.6 | 39.5 | 24.5 | 41.0 | 27.7 | 42.5 | 31.5 | 44.0 | 35.4 | 45.5 | 40.0 | 46.5 | 43.7 | 47.5 | 48.6 | 49.0 | 53.2 | 50.5 |
| 6.0 | 14.5 | 36.0 | 17.8 | 38.0 | 22.6 | 40.5 | 25.6 | 42.0 | 29.0 | 43.5 | 32.9 | 45.0 | 37.0 | 46.5 | 41.8 | 48.0 | 45.7 | 49.0 | 50.7 | 50.5 | 55.6 | 52.0 |
| 6.5 | 15.1 | 37.0 | 18.5 | 39.0 | 23.5 | 41.5 | 26.7 | 43.0 | 30.1 | 44.5 | 34.2 | 46.0 | 38.5 | 47.5 | 43.5 | 49.0 | 47.5 | 50.0 | 52.8 | 51.5 | 57.8 | 53.5 |
| 7.0 | 15.7 | 38.0 | 19.2 | 40.0 | 24.4 | 42.5 | 27.7 | 44.0 | 31.3 | 45.5 | 35.5 | 47.0 | 40.0 | 48.5 | 45.1 | 50.0 | 49.3 | 51.0 | 54.8 | 52.5 | 60.0 | 54.5 |
| 7.5 | 16.3 | 39.0 | 19.9 | 41.0 | 25.3 | 43.5 | 28.7 | 45.0 | 32.4 | 46.5 | 36.8 | 48.0 | 41.4 | 49.5 | 46.7 | 51.0 | 51.1 | 52.0 | 56.8 | 53.5 | 62.1 | 55.5 |

RING NOZZLE: 24° Trajectory

| Pressure BAR | 0.60 in 15.3 mm | | 0.71 in 18.0 mm | | 0.77 in 19.6 mm | | 0.81 in 20.6 mm | | 0.86 in 21.8 mm | | 0.89 in 22.6 mm | | 0.93 in 23.6 mm | | 0.96 in 24.4 mm | |
|-----------------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) |
| 2.75 | 10.7 | 28.5 | 15.0 | 31.5 | 17.8 | 32.0 | 20.5 | 32.5 | 23.3 | 34.0 | 26.5 | 35.5 | 30.4 | 36.0 | 34.2 | 36.5 |
| 3.0 | 11.1 | 29.0 | 15.7 | 32.5 | 18.6 | 33.0 | 21.4 | 33.5 | 24.3 | 35.0 | 27.6 | 36.5 | 31.7 | 37.5 | 35.7 | 38.0 |
| 3.5 | 11.9 | 30.5 | 16.9 | 34.0 | 20.0 | 34.5 | 23.0 | 35.5 | 26.3 | 37.0 | 29.7 | 39.0 | 34.3 | 39.5 | 38.5 | 40.0 |
| 4.0 | 12.7 | 32.0 | 18.1 | 35.5 | 21.4 | 36.0 | 24.6 | 37.0 | 28.1 | 39.0 | 31.7 | 41.0 | 36.6 | 41.5 | 41.1 | 42.5 |
| 4.5 | 13.4 | 33.0 | 19.2 | 36.5 | 22.7 | 37.5 | 26.1 | 38.5 | 29.8 | 40.5 | 33.6 | 42.5 | 38.9 | 43.5 | 43.5 | 44.5 |
| 5.0 | 14.1 | 34.0 | 20.3 | 38.0 | 24.0 | 39.0 | 27.5 | 40.0 | 31.3 | 42.0 | 35.3 | 44.5 | 41.0 | 45.0 | 45.8 | 46.0 |
| 5.5 | 14.7 | 35.0 | 21.3 | 39.0 | 25.1 | 40.0 | 28.8 | 41.5 | 32.9 | 43.5 | 37.0 | 45.5 | 43.0 | 46.5 | 48.0 | 47.5 |
| 6.0 | 15.3 | 36.0 | 22.2 | 40.0 | 26.3 | 41.0 | 30.0 | 43.0 | 34.3 | 44.5 | 38.6 | 47.0 | 44.9 | 48.0 | 50.0 | 49.0 |
| 6.5 | 15.9 | 37.0 | 23.1 | 40.5 | 27.3 | 42.0 | 31.2 | 44.0 | 35.7 | 46.0 | 40.1 | 48.0 | 46.7 | 49.0 | 52.0 | 50.5 |
| 7.0 | 16.5 | 37.5 | 24.0 | 41.5 | 28.4 | 43.0 | 32.4 | 45.5 | 37.1 | 47.0 | 41.6 | 49.0 | 48.4 | 50.0 | 54.0 | 51.5 |
| 7.5 | 17.0 | 38.0 | 24.9 | 42.0 | 29.4 | 44.0 | 33.5 | 46.5 | 38.3 | 47.5 | 43.0 | 49.5 | 50.1 | 50.5 | 55.8 | 52.5 |

Performance: Metric Units

150 SERIES

TAPER BORE NOZZLE: 24° Trajectory

| Pressure BAR | 0.70 in 17.8 mm | | 0.80 in 20.3 mm | | 0.90 in 22.9 mm | | 1.00 in 25.4 mm | | 1.10 in 27.9 mm | | 1.20 in 30.5 mm | | 1.30 in 33.0 mm | | 1.40 in 35.6 mm | |
|-----------------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) |
| 3.5 | 23.0 | 38.5 | 29.8 | 41.5 | 37.9 | 44.5 | 47.0 | 47.5 | 57.8 | 50.5 | 68.8 | 53.0 | 80.2 | 55.0 | 93.3 | 57.5 |
| 4.0 | 24.6 | 40.0 | 31.9 | 43.0 | 40.5 | 46.0 | 50.3 | 49.0 | 61.7 | 52.0 | 73.5 | 55.0 | 85.9 | 57.0 | 99.8 | 59.5 |
| 4.5 | 26.1 | 41.5 | 33.9 | 44.5 | 43.0 | 48.0 | 53.3 | 51.0 | 65.3 | 54.0 | 78.0 | 57.0 | 91.2 | 59.0 | 105.8 | 61.5 |
| 5.0 | 27.6 | 43.0 | 35.7 | 46.0 | 45.4 | 49.5 | 56.2 | 52.5 | 68.6 | 55.5 | 82.2 | 58.5 | 96.2 | 61.0 | 111.6 | 63.5 |
| 5.5 | 28.9 | 44.0 | 37.5 | 47.0 | 47.7 | 50.5 | 59.0 | 54.0 | 71.9 | 57.0 | 86.2 | 60.0 | 101.0 | 62.5 | 117.0 | 65.0 |
| 6.0 | 30.3 | 45.5 | 39.2 | 48.5 | 49.8 | 52.0 | 61.6 | 55.0 | 74.9 | 58.5 | 90.0 | 61.5 | 105.6 | 64.0 | 122.2 | 67.0 |
| 6.5 | 31.5 | 46.5 | 40.9 | 49.5 | 51.9 | 53.5 | 64.2 | 56.5 | 77.9 | 60.0 | 93.7 | 63.0 | 110.0 | 65.5 | 127.2 | 68.5 |
| 7.0 | 32.7 | 47.5 | 42.4 | 50.5 | 53.9 | 54.5 | 66.6 | 57.5 | 80.7 | 61.0 | 97.3 | 64.5 | 114.2 | 67.0 | 132.0 | 70.0 |
| 7.5 | 33.9 | 48.5 | 44.0 | 51.5 | 55.8 | 55.5 | 68.9 | 58.5 | 83.4 | 62.5 | 100.7 | 65.5 | 118.3 | 68.5 | 136.7 | 71.5 |
| 8.0 | 35.1 | 49.5 | 45.4 | 52.5 | 57.6 | 56.5 | 71.2 | 59.5 | 86.0 | 63.5 | 104.0 | 66.5 | 122.3 | 69.5 | 141.1 | 72.5 |
| 8.25 | 35.6 | 50.0 | 46.2 | 53.0 | 58.5 | 57.0 | 72.3 | 60.0 | 87.3 | 64.0 | 105.6 | 67.0 | 124.2 | 70.0 | 143.3 | 73.5 |

TAPER RING NOZZLE: 24° Trajectory

| Pressure BAR | 0.71 in 18.0 mm | | 0.75 in 19.0 mm | | 0.79 in 20.0 mm | | 0.83 in 21.0 mm | | 0.87 in 22.0 mm | | 0.91 in 23.0 mm | | 0.94 in 24.0 mm | | 0.98 in 25.0 mm | | 1.02 in 26.0 mm | | 1.06 in 27.0 mm | | 1.10 in 28.0 mm | | 1.14 in 29.0 mm | | 1.18 in 30.0 mm | | |
|-----------------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|-------|
| | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr | Rad.(m) | m³/hr |
| 3.5 | 202 | 36.5 | 227 | 38.0 | 254 | 39.0 | 280 | 40.0 | 309 | 41.5 | 341 | 42.5 | 375 | 44.0 | 410 | 45.0 | 448 | 46.0 | 490 | 47.5 | 533 | 48.5 | 579 | 50.0 | 628 | 51.0 | |
| 4.0 | 216 | 38.0 | 243 | 39.0 | 271 | 40.5 | 299 | 41.5 | 330 | 43.0 | 364 | 44.0 | 401 | 45.5 | 438 | 46.5 | 478 | 48.0 | 523 | 49.0 | 570 | 50.5 | 619 | 52.0 | 671 | 53.0 | |
| 4.5 | 22.9 | 39.0 | 257 | 40.5 | 287 | 41.5 | 317 | 43.0 | 350 | 44.5 | 386 | 46.0 | 425 | 47.0 | 465 | 48.5 | 507 | 49.5 | 555 | 51.0 | 605 | 52.0 | 657 | 53.5 | 712 | 54.5 | |
| 5.0 | 24.2 | 40.0 | 271 | 41.5 | 303 | 43.0 | 334 | 44.5 | 369 | 46.0 | 407 | 47.0 | 448 | 48.5 | 490 | 50.0 | 535 | 51.0 | 585 | 52.5 | 638 | 54.0 | 692 | 55.0 | 751 | 56.5 | |
| 5.5 | 25.3 | 41.5 | 285 | 43.0 | 317 | 44.0 | 351 | 45.5 | 387 | 47.0 | 426 | 48.5 | 470 | 50.0 | 514 | 51.0 | 561 | 52.5 | 614 | 54.0 | 669 | 55.5 | 726 | 57.0 | 787 | 58.0 | |
| 6.0 | 26.5 | 42.5 | 298 | 44.0 | 331 | 45.5 | 366 | 47.0 | 404 | 48.5 | 445 | 50.0 | 490 | 51.5 | 537 | 52.5 | 586 | 54.0 | 641 | 55.5 | 699 | 56.5 | 758 | 58.0 | 822 | 59.5 | |
| 6.5 | 27.6 | 43.5 | 310 | 45.0 | 345 | 46.5 | 381 | 48.0 | 420 | 49.5 | 463 | 51.0 | 510 | 52.5 | 559 | 54.0 | 610 | 55.0 | 667 | 56.5 | 727 | 58.0 | 789 | 59.5 | 856 | 61.0 | |
| 7.0 | 28.6 | 44.5 | 322 | 46.0 | 357 | 47.5 | 395 | 49.0 | 436 | 50.5 | 480 | 52.0 | 529 | 53.5 | 580 | 55.0 | 633 | 56.0 | 692 | 58.0 | 755 | 59.5 | 819 | 61.0 | 888 | 62.0 | |
| 7.5 | 29.6 | 45.5 | 333 | 47.0 | 370 | 48.5 | 409 | 50.0 | 452 | 51.5 | 497 | 53.0 | 548 | 54.5 | 600 | 56.0 | 655 | 57.5 | 717 | 59.0 | 781 | 60.5 | 848 | 62.0 | 919 | 63.5 | |
| 8.0 | 30.6 | 46.5 | 344 | 48.0 | 382 | 49.5 | 422 | 51.0 | 466 | 52.5 | 513 | 54.0 | 566 | 55.5 | 620 | 57.0 | 676 | 58.0 | 740 | 60.0 | 807 | 61.5 | 876 | 63.0 | 949 | 64.5 | |
| 8.25 | 31.1 | 47.0 | 349 | 48.5 | 388 | 50.0 | 428 | 51.5 | 474 | 53.0 | 521 | 54.5 | 575 | 56.0 | 630 | 57.5 | 687 | 58.5 | 752 | 60.5 | 820 | 62.0 | 889 | 63.5 | 964 | 65.0 | |

TAPER RING NOZZLE: 24° Trajectory

| Pressure BAR | 1.22 in 31.0 mm | | 1.26 in 32.0 mm | | 1.30 in 33.0 mm | | 1.34 in 34.0 mm | |
|-----------------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) |
| 3.5 | 67.8 | 52.0 | 73.1 | 53.0 | 78.7 | 54.0 | 84.5 | 55.0 |
| 4.0 | 72.5 | 54.0 | 78.1 | 55.0 | 84.2 | 56.0 | 90.3 | 57.0 |
| 4.5 | 76.9 | 56.0 | 82.9 | 57.0 | 89.3 | 58.0 | 95.8 | 59.0 |
| 5.0 | 81.1 | 57.5 | 87.4 | 59.0 | 94.1 | 60.0 | 101.0 | 60.5 |
| 5.5 | 85.0 | 59.5 | 91.6 | 60.5 | 98.7 | 61.5 | 105.9 | 62.5 |
| 6.0 | 88.8 | 61.0 | 95.7 | 62.0 | 103.0 | 63.0 | 110.6 | 64.0 |
| 6.5 | 92.5 | 62.0 | 99.7 | 63.5 | 107.2 | 64.5 | 115.2 | 65.5 |
| 7.0 | 96.0 | 63.5 | 103.4 | 64.5 | 111.3 | 66.0 | 119.5 | 66.5 |
| 7.5 | 99.3 | 64.5 | 107.1 | 66.0 | 115.2 | 67.0 | 123.7 | 68.0 |
| 8.0 | 102.6 | 65.5 | 110.6 | 67.0 | 119.0 | 68.0 | 127.7 | 69.0 |
| 8.25 | 104.2 | 66.0 | 112.3 | 67.5 | 120.8 | 68.5 | 129.7 | 69.5 |

RING NOZZLE: 24° Trajectory

| Pressure BAR | 0.86 in 21.8 mm | | 0.97 in 24.6 mm | | 1.08 in 27.4 mm | | 1.18 in 30.0 mm | | 1.26 in 32.0 mm | | 1.34 in 34.0 mm | | 1.41 in 35.8 mm | |
|-----------------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) |
| 3.5 | 23.0 | 37.5 | 29.8 | 40.5 | 37.9 | 44.0 | 47.0 | 46.0 | 57.8 | 49.0 | 68.8 | 51.0 | 80.2 | 53.5 |
| 4.0 | 24.6 | 39.0 | 31.9 | 42.0 | 40.5 | 45.0 | 50.3 | 47.5 | 61.7 | 50.5 | 73.5 | 53.0 | 85.9 | 55.5 |
| 4.5 | 26.1 | 40.5 | 33.9 | 43.5 | 43.0 | 46.5 | 53.3 | 49.0 | 65.3 | 52.0 | 78.0 | 54.5 | 91.2 | 57.0 |
| 5.0 | 27.6 | 41.5 | 35.7 | 44.5 | 45.4 | 47.5 | 56.2 | 50.5 | 68.6 | 53.5 | 82.2 | 56.0 | 96.2 | 58.5 |
| 5.5 | 28.9 | 43.0 | 37.5 | 46.0 | 47.7 | 49.0 | 59.0 | 51.5 | 71.9 | 55.0 | 86.2 | 57.5 | 101.0 | 60.0 |
| 6.0 | 30.3 | 44.0 | 39.2 | 47.0 | 49.8 | 50.0 | 61.6 | 53.0 | 74.9 | 56.0 | 90.0 | 59.0 | 105.6 | 61.0 |
| 6.5 | 31.5 | 45.0 | 40.9 | 48.0 | 51.9 | 51.0 | 64.2 | 54.0 | 77.9 | 57.0 | 93.7 | 60.0 | 110.0 | 62.5 |
| 7.0 | 32.7 | 46.0 | 42.4 | 49.0 | 53.9 | 52.0 | 66.6 | 55.5 | 80.7 | 58.5 | 97.3 | 61.5 | 114.2 | 63.5 |
| 7.5 | 33.9 | 47.0 | 44.0 | 50.0 | 55.8 | 53.0 | 68.9 | 56.5 | 83.4 | 59.5 | 100.7 | 62.5 | 118.3 | 64.5 |
| 8.0 | 35.1 | 47.5 | 45.4 | 50.5 | 57.6 | 54.0 | 71.2 | 57.5 | 86.0 | 60.5 | 104.0 | 63.5 | 122.3 | 65.5 |
| 8.25 | 35.6 | 48.0 | 46.2 | 51.0 | 58.5 | 54.5 | 72.3 | 57.5 | 87.3 | 61.0 | 105.6 | 64.0 | 124.2 | 66.0 |

200 SERIES

TAPER BORE NOZZLE: 27° Trajectory

| Pressure BAR | 1.05 in 26.7 mm | | 1.1 in 27.9 mm | | 1.2 in 30.5 mm | | 1.3 in 33.0 mm | | 1.4 in 35.6 mm | | 1.5 in 38.1 mm | | 1.6 in 40.6 mm | | 1.75 in 44.5 mm | | 1.9 in 48.3 mm | |
|-----------------|--------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|--------------------|----------|-------------------|----------|
| | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) |
| 4.0 | 55.9 | 52.0 | 63.7 | 54.0 | 73.6 | 56.5 | 86.1 | 58.5 | 99.4 | 62.0 | 114.7 | 65.0 | 130.5 | 67.0 | 155.7 | 71.0 | 184.1 | 74.5 |
| 4.5 | 59.4 | 54.0 | 67.6 | 56.0 | 78.1 | 58.5 | 91.3 | 61.0 | 105.4 | 64.0 | 121.6 | 67.0 | 138.4 | 69.5 | 165.1 | 73.5 | 195.2 | 77.0 |
| 5.0 | 62.6 | 55.5 | 71.4 | 58.0 | 82.3 | 60.5 | 96.3 | 63.5 | 111.2 | 66.5 | 128.1 | 69.5 | 145.9 | 72.0 | 174.1 | 76.0 | 205.6 | 79.5 |
| 5.5 | 65.7 | 57.0 | 75.0 | 60.0 | 86.3 | 62.5 | 101.0 | 65.5 | 116.6 | 68.5 | 134.3 | 71.5 | 153.0 | 74.0 | 182.6 | 78.5 | 215.5 | 81.5 |
| 6.0 | 68.7 | 58.5 | 78.4 | 61.5 | 90.1 | 64.5 | 105.5 | 67.0 | 121.8 | 70.0 | 140.2 | 73.0 | 159.8 | 76.0 | 190.7 | 80.5 | 224.9 | 84.0 |
| 6.5 | 71.5 | 60.0 | 81.6 | 63.0 | 93.8 | 66.0 | 109.9 | 69.0 | 126.8 | 72.0 | 145.9 | 75.0 | 166.3 | 78.0 | 198.5 | 82.5 | 234.0 | 86.0 |
| 7.0 | 74.3 | 61.5 | 84.8 | 64.5 | 97.3 | 67.0 | 114.0 | 70.5 | 131.6 | 73.5 | 151.4 | 76.5 | 172.5 | 79.5 | 206.0 | 84.5 | 242.7 | 88.0 |
| 7.5 | 76.9 | 62.5 | 87.8 | 65.5 | 100.7 | 68.5 | 118.0 | 71.5 | 136.3 | 75.0 | 156.6 | 78.5 | 178.6 | 81.5 | 213.2 | 86.0 | 251.1 | 89.5 |
| 8.0 | 79.5 | 63.5 | 90.8 | 66.5 | 104.0 | 69.5 | 121.9 | 72.5 | 140.7 | 76.5 | 161.7 | 80.0 | 184.4 | 83.0 | 220.2 | 87.5 | 259.2 | 91.5 |
| 8.5 | 81.9 | 64.0 | 93.6 | 67.0 | 107.2 | 70.5 | 125.7 | 73.5 | 145.1 | 77.5 | 166.7 | 81.0 | 190.1 | 84.5 | 227.0 | 89.0 | 267.1 | 93.0 |
| 9.0 | 84.3 | 65.0 | 96.4 | 68.0 | 110.3 | 71.0 | 129.4 | 74.0 | 149.3 | 78.5 | 171.5 | 82.5 | 195.6 | 85.5 | 233.6 | 90.0 | 274.7 | 94.5 |

RING NOZZLE: 27° Trajectory

| Pressure BAR | 1.29 in 32.8 mm | | 1.46 in 37.1 mm | | 1.56 in 39.6 mm | | 1.66 in 42.2 mm | | 1.74 in 44.2 mm | | 1.83 in 46.5 mm | | 1.93 in 49.0 mm | |
|-----------------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) | m³/hr | Rad. (m) |
| 3.5 | 52.4 | 49.5 | 68.8 | 54.0 | 80.3 | 56.5 | 93.3 | 59.5 | 107.4 | 62.0 | 122.3 | 64.0 | 146.0 | 66.5 |
| 4.0 | 56.1 | 51.5 | 73.5 | 56.0 | 85.9 | 58.5 | 99.7 | 62.0 | 114.8 | 64.0 | 130.6 | 66.5 | 156.0 | 69.0 |
| 4.5 | 59.5 | 53.0 | 78.0 | 58.0 | 91.2 | 60.5 | 105.7 | 63.5 | 121.6 | 66.0 | 138.5 | 68.5 | 165.4 | 71.0 |
| 5.0 | 62.7 | 54.5 | 82.2 | 59.5 | 96.2 | 62.5 | 111.4 | 65.5 | 128.2 | 67.5 | 146.0 | 70.0 | 174.3 | 73.0 |
| 5.5 | 65.8 | 56.0 | 86.2 | 61.0 | 100.9 | 64.0 | 116.8 | 67.0 | 134.3 | 69.5 | 153.1 | 72.0 | 182.7 | 75.0 |
| 6.0 | 68.7 | 57.5 | 90.1 | 62.5 | 105.5 | 65.5 | 121.9 | 68.5 | 140.3 | 71.0 | 159.8 | 73.5 | 190.8 | 76.5 |
| 6.5 | 71.5 | 58.5 | 93.7 | 64.0 | 109.8 | 67.0 | 126.9 | 70.0 | 145.9 | 72.5 | 166.3 | 75.0 | 198.5 | 78.0 |
| 7.0 | 74.3 | 60.0 | 97.3 | 65.0 | 114.0 | 68.0 | 131.6 | 71.0 | 151.4 | 73.5 | 172.5 | 76.0 | 206.0 | 79.5 |
| 7.5 | 76.9 | 61.0 | 100.7 | 66.0 | 118.1 | 69.5 | 136.2 | 72.5 | 156.6 | 74.5 | 178.6 | 77.5 | 213.2 | 81.0 |
| 8.0 | 79.4 | 62.0 | 104.0 | 67.0 | 122.0 | 70.0 | 140.6 | 73.5 | 161.7 | 75.5 | 184.4 | 78.5 | 220.1 | 82.0 |
| 8.5 | 81.9 | 62.5 | 107.2 | 68.0 | 125.8 | 71.0 | 144.9 | 74.0 | 166.6 | 76.5 | 190.0 | 79.5 | 226.8 | 83.0 |
| 9.0 | 84.2 | 63.5 | 110.3 | 69.0 | 129.5 | 71.5 | 149.1 | 75.0 | 171.4 | 77.0 | 195.5 | 80.5 | 233.4 | 84.0 |

Radii are based on a 24° trajectory for the 75, 100, and 150 Series and 27° trajectory for the 200 Series. 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.