

Agricultural Spray Nozzles for Broadcast Spraying and Space Crops



Air-injector tips ID



- Air-aspirating flat spray tips with 120° spray angle
- Extremely low drift potential
- Pressure range: 2-8 bar
- Materials: POM, ceramic

Air-injector compact tips IDK



- Air aspirating flat spray tips with 120° spray angle
- Compact design
- High low drift potential
- Pressure range: 1-6 bar
- Materials: POM, ceramic

Multirange flat spray tips LU



- Multirange flat spray tips with 120° spray angle
- Fine, medium and coarse droplets
- Pressure range: 1,5-5 bar
- Materials: POM, stainless steel, ceramic

Standard flat spray tips ST



- Standard flat spray tips with 110° spray angle
- ISO colour coded
- Pressure range: 2-5 bar
- Materials: POM, ceramic

Hollow cone nozzles TR



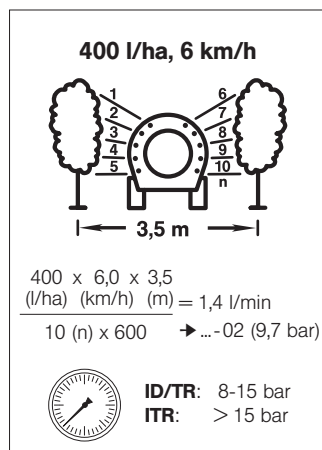
- Hollow cone nozzles with 80° spray angle
- Fine droplet spectrum
- Pressure range: 3-20 bar
- Material: ceramic

Air-injector tips ID 90 for space crops



- Air injector flat spray tips with 90° spray angle
- Extremely low drift potential
- Pressure range: 3-20 bar
- Material: ceramic

Spray table for space crops



| ID/AD | TR/ITR | l/min | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | [bar] | | | | | | | | | | | | | | | | | | |
| | | 2,0 | 3,0 | 4,0 | 5,0 | 6,0 | 7,0 | 8,0 | 9,0 | 10,0 | 11,0 | 12,0 | 13,0 | 14,0 | 15,0 | 16,0 | 17,0 | 19,0 | 20,0 | |
| TR 80-005 | 50 M | 0,16 | 0,20 | 0,23 | 0,25 | 0,28 | 0,30 | 0,32 | 0,34 | 0,36 | 0,38 | 0,39 | 0,41 | 0,42 | 0,44 | 0,45 | 0,47 | 0,49 | 0,51 | |
| TR 80-0067 | 50 M | 0,22 | 0,27 | 0,31 | 0,35 | 0,38 | 0,41 | 0,44 | 0,47 | 0,49 | 0,52 | 0,54 | 0,56 | 0,58 | 0,60 | 0,62 | 0,64 | 0,68 | 0,70 | |
| ID 90/120-01 TR/ITR 80-01 | 50 M | 0,32 | 0,39 | 0,45 | 0,51 | 0,55 | 0,60 | 0,64 | 0,68 | 0,72 | 0,75 | 0,78 | 0,82 | 0,85 | 0,88 | 0,91 | 0,93 | 0,99 | 1,01 | |
| ID/AD 90/120-015 TR/ITR 80-015 | 50 M | 0,48 | 0,59 | 0,68 | 0,76 | 0,83 | 0,90 | 0,96 | 1,02 | 1,07 | 1,13 | 1,18 | 1,22 | 1,27 | 1,31 | 1,36 | 1,40 | 1,48 | 1,52 | |
| ID/AD 90/120-02 TR/ITR 80-02 | 50 M | 0,63 | 0,78 | 0,90 | 1,01 | 1,11 | 1,19 | 1,27 | 1,35 | 1,42 | 1,49 | 1,56 | 1,62 | 1,68 | 1,74 | 1,80 | 1,86 | 1,96 | 2,01 | |
| ID 90/120-025 | 50 M | 0,81 | 0,99 | 1,15 | 1,28 | 1,40 | 1,52 | 1,62 | 1,71 | 1,81 | 1,90 | 1,98 | 2,06 | 2,14 | 2,21 | 2,29 | 2,36 | 2,49 | 2,56 | |
| ID/AD 90/120-03 TR 80-03 | 50 M | 0,96 | 1,17 | 1,35 | 1,52 | 1,64 | 1,79 | 1,91 | 2,03 | 2,14 | 2,24 | 2,34 | 2,44 | 2,53 | 2,62 | 2,70 | 2,79 | 2,94 | 3,02 | |
| ID/AD 90/120-04 TR 80-04 | 50 M | 1,26 | 1,55 | 1,80 | 2,02 | 2,21 | 2,37 | 2,53 | 2,68 | 2,83 | 2,97 | 3,10 | 3,23 | 3,35 | 3,47 | 3,58 | 3,69 | 3,90 | 4,00 | |
| ID 90/120-05 TR 80-05 | 25 M | 1,57 | 1,94 | 2,25 | 2,50 | 2,74 | 2,96 | 3,17 | 3,36 | 3,54 | 3,71 | 3,88 | 4,04 | 4,19 | 4,34 | 4,48 | 4,62 | 4,88 | 5,01 | |
| ID 90/120-06 | 25 M | 1,88 | 2,32 | 2,69 | 3,01 | 3,28 | 3,54 | 3,79 | 4,02 | 4,24 | 4,44 | 4,64 | 4,83 | 5,01 | 5,19 | 5,36 | 5,52 | 5,84 | 5,99 | |

Spray table for broadcast spraying



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| Nozzle | bar | l/min | l/ha | | | | | | | | | | Nozzle | bar | l/min | l/ha | | | | | | | | | |
|---|------|-------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|---|-----|-------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 5,0 km/h | 6,0 km/h | 7,0 km/h | 8,0 km/h | 10,0 km/h | 12,0 km/h | 16,0 km/h | 20,0 km/h | 25,0 km/h | 30,0 km/h | | | | 5,0 km/h | 6,0 km/h | 7,0 km/h | 8,0 km/h | 10,0 km/h | 12,0 km/h | 16,0 km/h | 20,0 km/h | 25,0 km/h | 30,0 km/h |
| -01 ID (80/60 M) LU ST (80 M) | 1,5 | 0,28 | 67 | 56 | 48 | 42 | 34 | 28 | 21 | 17 | 13 | 11 | -03 ID IDK LU AD ST (60 M) DF(80 M) | 1,5 | 0,82 | 197 | 164 | 141 | 123 | 98 | 82 | 62 | 49 | 39 | 33 |
| | 2,0 | 0,32 | 76 | 64 | 55 | 48 | 38 | 32 | 24 | 19 | 15 | 13 | | 2,0 | 0,95 | 228 | 190 | 163 | 143 | 114 | 95 | 71 | 57 | 46 | 38 |
| | 2,5 | 0,36 | 85 | 72 | 62 | 54 | 43 | 36 | 27 | 22 | 17 | 14 | | 2,5 | 1,06 | 255 | 212 | 182 | 159 | 127 | 106 | 80 | 64 | 51 | 42 |
| | 3,0 | 0,39 | 94 | 78 | 67 | 59 | 47 | 39 | 29 | 23 | 19 | 16 | | 3,0 | 1,17 | 280 | 234 | 201 | 176 | 140 | 117 | 88 | 70 | 56 | 47 |
| | 3,5 | 0,42 | 101 | 84 | 72 | 63 | 50 | 42 | 32 | 25 | 20 | 17 | | 3,5 | 1,26 | 303 | 252 | 216 | 189 | 151 | 126 | 95 | 76 | 60 | 50 |
| | 4,0 | 0,45 | 108 | 90 | 77 | 68 | 54 | 45 | 34 | 27 | 22 | 18 | | 4,0 | 1,35 | 325 | 270 | 231 | 203 | 162 | 135 | 101 | 81 | 65 | 54 |
| | 4,5 | 0,48 | 115 | 96 | 82 | 72 | 58 | 48 | 36 | 29 | 23 | 19 | | 4,5 | 1,44 | 345 | 288 | 247 | 216 | 173 | 144 | 108 | 86 | 69 | 58 |
| | 5,0 | 0,51 | 121 | 102 | 87 | 77 | 61 | 51 | 38 | 31 | 24 | 20 | | 5,0 | 1,52 | 364 | 304 | 261 | 228 | 182 | 152 | 114 | 91 | 73 | 61 |
| | 6,0 | 0,57 | 137 | 114 | 98 | 86 | 68 | 57 | 43 | 34 | 27 | 23 | | 6,0 | 1,64 | 395 | 328 | 281 | 246 | 197 | 164 | 123 | 98 | 79 | 66 |
| 7,0 | 0,61 | 146 | 122 | 105 | 92 | 73 | 61 | 46 | 37 | 29 | 24 | 7,0 | 1,79 | 430 | 358 | 307 | 269 | 215 | 179 | 134 | 107 | 86 | 72 | | |
| 8,0 | 0,65 | 156 | 130 | 111 | 98 | 78 | 65 | 49 | 39 | 31 | 26 | 8,0 | 1,91 | 460 | 383 | 328 | 288 | 230 | 191 | 143 | 115 | 92 | 76 | | |
| -015 ID (60 M) IDK LU AD ST (80 M) | 1,5 | 0,42 | 99 | 84 | 72 | 63 | 50 | 42 | 32 | 25 | 20 | 17 | -04 ID IDK LU AD ST DF (60 M) | 1,0 | 0,89 | 214 | 178 | 153 | 134 | 107 | 89 | 67 | 53 | 43 | 36 |
| | 2,0 | 0,48 | 114 | 96 | 82 | 72 | 58 | 48 | 36 | 29 | 23 | 19 | | 1,5 | 1,09 | 262 | 218 | 187 | 164 | 131 | 109 | 82 | 65 | 52 | 44 |
| | 2,5 | 0,53 | 128 | 106 | 91 | 80 | 64 | 53 | 40 | 32 | 25 | 21 | | 2,0 | 1,26 | 303 | 252 | 216 | 189 | 151 | 126 | 95 | 76 | 60 | 50 |
| | 3,0 | 0,59 | 141 | 118 | 101 | 89 | 71 | 59 | 44 | 35 | 28 | 24 | | 2,5 | 1,42 | 340 | 284 | 243 | 213 | 170 | 142 | 107 | 85 | 68 | 57 |
| | 3,5 | 0,63 | 152 | 126 | 108 | 95 | 76 | 63 | 47 | 38 | 30 | 25 | | 3,0 | 1,55 | 373 | 310 | 266 | 233 | 186 | 155 | 116 | 93 | 74 | 62 |
| | 4,0 | 0,68 | 163 | 136 | 117 | 102 | 82 | 68 | 51 | 41 | 33 | 27 | | 3,5 | 1,68 | 404 | 336 | 288 | 252 | 202 | 168 | 126 | 101 | 81 | 67 |
| | 4,5 | 0,72 | 173 | 144 | 123 | 108 | 86 | 72 | 54 | 43 | 35 | 29 | | 4,0 | 1,80 | 432 | 360 | 309 | 270 | 216 | 180 | 135 | 108 | 86 | 72 |
| | 5,0 | 0,76 | 182 | 152 | 130 | 114 | 91 | 76 | 57 | 46 | 36 | 30 | | 5,0 | 2,02 | 484 | 404 | 346 | 303 | 242 | 202 | 152 | 121 | 97 | 81 |
| | 6,0 | 0,84 | 199 | 168 | 144 | 126 | 101 | 84 | 63 | 50 | 40 | 34 | | 6,0 | 2,21 | 530 | 442 | 379 | 332 | 265 | 221 | 166 | 133 | 106 | 88 |
| 7,0 | 0,90 | 216 | 180 | 154 | 135 | 108 | 90 | 68 | 54 | 43 | 36 | 7,0 | 2,37 | 569 | 474 | 406 | 356 | 284 | 237 | 178 | 142 | 114 | 95 | | |
| 8,0 | 0,96 | 231 | 192 | 165 | 144 | 115 | 96 | 72 | 58 | 46 | 38 | 8,0 | 2,53 | 608 | 507 | 434 | 381 | 304 | 253 | 190 | 152 | 121 | 101 | | |
| -02 ID IDK LU AD ST (60 M) DF(80 M) | 1,5 | 0,55 | 132 | 110 | 94 | 83 | 66 | 55 | 41 | 33 | 26 | 22 | -05 ID IDK LU ST (60/25 M) DF(60 M) | 1,0 | 1,11 | 266 | 222 | 190 | 167 | 133 | 111 | 83 | 67 | 53 | 44 |
| | 2,0 | 0,63 | 152 | 126 | 108 | 95 | 76 | 63 | 47 | 38 | 30 | 25 | | 1,5 | 1,36 | 327 | 272 | 233 | 204 | 163 | 136 | 102 | 82 | 65 | 54 |
| | 2,5 | 0,71 | 171 | 142 | 122 | 107 | 85 | 71 | 53 | 43 | 34 | 28 | | 2,0 | 1,57 | 378 | 314 | 269 | 236 | 188 | 157 | 118 | 94 | 75 | 63 |
| | 3,0 | 0,78 | 188 | 156 | 134 | 117 | 94 | 78 | 59 | 47 | 37 | 31 | | 2,5 | 1,77 | 424 | 354 | 303 | 266 | 212 | 177 | 133 | 106 | 85 | 71 |
| | 3,5 | 0,85 | 203 | 170 | 146 | 128 | 102 | 85 | 64 | 51 | 41 | 34 | | 3,0 | 1,94 | 466 | 388 | 333 | 291 | 233 | 194 | 146 | 116 | 93 | 78 |
| | 4,0 | 0,90 | 217 | 180 | 154 | 135 | 108 | 90 | 68 | 54 | 43 | 36 | | 3,5 | 2,10 | 504 | 420 | 360 | 315 | 252 | 210 | 158 | 126 | 101 | 84 |
| | 4,5 | 0,96 | 231 | 192 | 165 | 144 | 115 | 96 | 72 | 58 | 46 | 38 | | 4,0 | 2,25 | 539 | 450 | 386 | 338 | 270 | 225 | 169 | 135 | 108 | 90 |
| | 5,0 | 1,01 | 243 | 202 | 173 | 152 | 121 | 101 | 76 | 61 | 48 | 40 | | 5,0 | 2,50 | 595 | 496 | 425 | 372 | 298 | 248 | 186 | 149 | 119 | 99 |
| | 6,0 | 1,11 | 266 | 222 | 190 | 167 | 133 | 111 | 83 | 67 | 53 | 44 | | 6,0 | 2,74 | 660 | 550 | 471 | 413 | 330 | 275 | 206 | 165 | 132 | 110 |
| 7,0 | 1,19 | 286 | 238 | 204 | 179 | 143 | 119 | 89 | 71 | 57 | 48 | 7,0 | 2,96 | 710 | 592 | 507 | 444 | 355 | 296 | 222 | 178 | 142 | 118 | | |
| 8,0 | 1,27 | 306 | 254 | 218 | 191 | 152 | 127 | 95 | 76 | 61 | 51 | 8,0 | 3,17 | 761 | 634 | 543 | 476 | 380 | 317 | 238 | 190 | 152 | 127 | | |
| -025 ID IDK (60 M) | 1,5 | 0,70 | 168 | 140 | 120 | 105 | 84 | 70 | 53 | 42 | 34 | 28 | -06 ID LU ST (60/25 M) DF(60 M) | 1,5 | 1,63 | 391 | 326 | 279 | 245 | 196 | 163 | 122 | 98 | 78 | 65 |
| | 2,0 | 0,81 | 194 | 162 | 139 | 122 | 97 | 81 | 61 | 49 | 39 | 32 | | 2,0 | 1,88 | 452 | 376 | 322 | 282 | 226 | 188 | 141 | 113 | 90 | 75 |
| | 2,5 | 0,90 | 216 | 180 | 154 | 135 | 108 | 90 | 68 | 54 | 43 | 36 | | 2,5 | 2,11 | 508 | 422 | 362 | 317 | 253 | 211 | 158 | 127 | 101 | 84 |
| | 3,0 | 0,99 | 238 | 198 | 170 | 149 | 119 | 99 | 74 | 59 | 48 | 40 | | 3,0 | 2,32 | 557 | 464 | 398 | 348 | 278 | 232 | 174 | 139 | 111 | 93 |
| | 3,5 | 1,07 | 257 | 214 | 183 | 161 | 128 | 107 | 80 | 64 | 51 | 43 | | 3,5 | 2,51 | 603 | 502 | 430 | 377 | 301 | 251 | 188 | 151 | 120 | 100 |
| | 4,0 | 1,15 | 276 | 230 | 197 | 173 | 138 | 115 | 86 | 69 | 55 | 46 | | 4,0 | 2,69 | 646 | 538 | 461 | 404 | 323 | 269 | 202 | 161 | 129 | 108 |
| | 4,5 | 1,22 | 293 | 244 | 209 | 183 | 146 | 122 | 92 | 73 | 59 | 49 | | 4,5 | 2,86 | 686 | 572 | 490 | 429 | 343 | 286 | 215 | 172 | 137 | 114 |
| | 5,0 | 1,28 | 307 | 256 | 219 | 192 | 154 | 128 | 96 | 77 | 61 | 51 | | 5,0 | 3,01 | 723 | 602 | 516 | 452 | 361 | 301 | 226 | 181 | 144 | 120 |
| | 6,0 | 1,40 | 336 | 280 | 240 | 210 | 168 | 140 | 105 | 84 | 67 | 56 | | 6,0 | 3,28 | 787 | 656 | 562 | 492 | 394 | 328 | 246 | 197 | 157 | 131 |
| 7,0 | 1,52 | 365 | 304 | 261 | 228 | 182 | 152 | 114 | 91 | 73 | 61 | 7,0 | 3,54 | 850 | 708 | 607 | 531 | 425 | 354 | 266 | 212 | 170 | 142 | | |
| 8,0 | 1,62 | 389 | 324 | 278 | 243 | 194 | 162 | 122 | 97 | 78 | 65 | 8,0 | 3,79 | 910 | 758 | 650 | 569 | 455 | 379 | 284 | 227 | 182 | 152 | | |

-08 (ID, LU, ST): 90 - 1200 l/ha (5 - 30 km/h)

80°/ 90° : h = 60 - 75 - 90 cm
 110°/120° : h = 40 - 50 - 70 cm

ID → 8 bar
 IDK → 6 bar
 LU → 5 bar
 AD → 6 bar
 ST → 5 bar
 DF → 5 bar

230 l/ha
 7 km/h

230 l/ha x 0,5 m x 7,0 km/h = 1,34 l/min
 600
 → ID 120-025 (5,5 bar)