



For spraying pesticides at higher pressures and flow rates. Especially suitable for wettable powders and other abrasive chemicals. Larger capacity nozzles are also used in air blast sprayers.

- Produce smaller droplets for thorough coverage with contact pesticides and foliar applications.
- Maximum spray pressure to 300 PSI (20 bar).

Orifice Discs

Available in a variety of sizes and materials. Ceramic for increased wear life, hardened stainless steel, stainless steel and polymer.

Ceramic Sizes Available:

DCER-2 through DCER-8, DCER-10.

Typical Assembly with Ceramic Disc and Core



CP26277-1-NY Quick TeeJet® Cap for ceramic disc and core. See page 63 for ordering information.



Hollow Cone Spray Pattern

Produced by Cores #13, 23, 25, 45 & 46

Cores

Standard cores are made of brass. Also available in ceramic, hardened stainless steel, aluminum and Nylon. All cores, with the exception of ceramic, are made with rear "nibs". Be sure core is always placed with the nib facing the nozzle body.

Ceramic Sizes Available:

DC13-CER, DC23-CER, DC25-CER, DC31-CER, DC33-CER, DC35-CER, DC45-CER, DC46-CER, DC56-CER.



| Disc | Core | bar | CAPACITY ONE NOZZLE IN l/min | l/ha 50cm | | | | | | | | | | |
|------|------|------|------------------------------|------------|--------|--------|--------|--------|---------|---------|---------|---------|--|--|
| | | | | 5 km/h | 6 km/h | 7 km/h | 8 km/h | 9 km/h | 10 km/h | 12 km/h | 14 km/h | 16 km/h | | |
| D2 | DC13 | 5.0 | 0.41 | 98.4 | 82.0 | 70.3 | 61.5 | 54.7 | 49.2 | 41.0 | 35.1 | 30.8 | | |
| | | 10.0 | 0.53 | 127 | 106 | 90.9 | 79.5 | 70.7 | 63.6 | 53.0 | 45.4 | 39.8 | | |
| | | 15.0 | 0.63 | 151 | 126 | 108 | 94.5 | 84.0 | 75.6 | 63.0 | 54.0 | 47.3 | | |
| | | 20.0 | 0.70 | 168 | 140 | 120 | 105 | 93.3 | 84.0 | 70.0 | 60.0 | 52.5 | | |
| D3 | DC13 | 5.0 | 0.44 | 106 | 88.0 | 75.4 | 66.0 | 58.7 | 52.8 | 44.0 | 37.7 | 33.0 | | |
| | | 10.0 | 0.59 | 142 | 118 | 101 | 88.5 | 78.7 | 70.8 | 59.0 | 50.6 | 44.3 | | |
| | | 15.0 | 0.68 | 163 | 136 | 117 | 102 | 90.7 | 81.6 | 68.0 | 58.3 | 51.0 | | |
| | | 20.0 | 0.77 | 185 | 154 | 132 | 116 | 103 | 92.4 | 77.0 | 66.0 | 57.8 | | |
| D4 | DC13 | 5.0 | 0.59 | 142 | 118 | 101 | 88.5 | 78.7 | 70.8 | 59.0 | 50.6 | 44.3 | | |
| | | 10.0 | 0.76 | 182 | 152 | 130 | 114 | 101 | 91.2 | 76.0 | 65.1 | 57.0 | | |
| | | 15.0 | 0.89 | 214 | 178 | 153 | 134 | 119 | 107 | 89.0 | 76.3 | 66.8 | | |
| | | 20.0 | 1.00 | 240 | 200 | 171 | 150 | 133 | 120 | 100 | 85.7 | 75.0 | | |
| D2 | DC23 | 5.0 | 0.53 | 127 | 106 | 90.9 | 79.5 | 70.7 | 63.6 | 53.0 | 45.4 | 39.8 | | |
| | | 10.0 | 0.70 | 168 | 140 | 120 | 105 | 93.3 | 84.0 | 70.0 | 60.0 | 52.5 | | |
| | | 15.0 | 0.83 | 199 | 166 | 142 | 125 | 111 | 99.6 | 83.0 | 71.1 | 62.3 | | |
| | | 20.0 | 0.93 | 223 | 186 | 159 | 140 | 124 | 112 | 93.0 | 79.7 | 69.8 | | |
| D3 | DC23 | 5.0 | 0.58 | 139 | 116 | 99.4 | 87.0 | 77.3 | 69.6 | 58.0 | 49.7 | 43.5 | | |
| | | 10.0 | 0.78 | 187 | 156 | 134 | 117 | 104 | 93.6 | 78.0 | 66.9 | 58.5 | | |
| | | 15.0 | 0.93 | 223 | 186 | 159 | 140 | 124 | 112 | 93.0 | 79.7 | 69.8 | | |
| | | 20.0 | 1.10 | 264 | 220 | 189 | 165 | 147 | 132 | 110 | 94.3 | 82.5 | | |
| D4 | DC23 | 5.0 | 0.77 | 185 | 154 | 132 | 116 | 103 | 92.4 | 77.0 | 66.0 | 57.8 | | |
| | | 10.0 | 1.10 | 264 | 220 | 189 | 165 | 147 | 132 | 110 | 94.3 | 82.5 | | |
| | | 15.0 | 1.30 | 312 | 260 | 223 | 195 | 173 | 156 | 130 | 111 | 97.5 | | |
| | | 20.0 | 1.40 | 336 | 280 | 240 | 210 | 187 | 168 | 140 | 120 | 105 | | |
| D5 | DC23 | 5.0 | 0.91 | 218 | 182 | 156 | 137 | 121 | 109 | 91.0 | 78.0 | 68.3 | | |
| | | 10.0 | 1.30 | 312 | 260 | 223 | 195 | 173 | 156 | 130 | 111 | 97.5 | | |
| | | 15.0 | 1.50 | 360 | 300 | 257 | 225 | 200 | 180 | 150 | 129 | 113 | | |
| | | 20.0 | 1.70 | 408 | 340 | 291 | 255 | 227 | 204 | 170 | 146 | 128 | | |
| D2 | DC25 | 5.0 | 0.79 | 190 | 158 | 135 | 119 | 105 | 94.8 | 79.0 | 67.7 | 59.3 | | |
| | | 10.0 | 1.10 | 264 | 220 | 189 | 165 | 147 | 132 | 110 | 94.3 | 82.5 | | |
| | | 15.0 | 1.30 | 312 | 260 | 223 | 195 | 173 | 156 | 130 | 111 | 97.5 | | |
| | | 20.0 | 1.50 | 360 | 300 | 257 | 225 | 200 | 180 | 150 | 129 | 113 | | |
| D3 | DC25 | 5.0 | 0.95 | 228 | 190 | 163 | 143 | 127 | 114 | 95.0 | 81.4 | 71.3 | | |
| | | 10.0 | 1.30 | 312 | 260 | 223 | 195 | 173 | 156 | 130 | 111 | 97.5 | | |
| | | 15.0 | 1.60 | 384 | 320 | 274 | 240 | 213 | 192 | 160 | 137 | 120 | | |
| | | 20.0 | 1.80 | 432 | 360 | 309 | 270 | 240 | 216 | 180 | 154 | 135 | | |
| D4 | DC25 | 5.0 | 1.40 | 336 | 280 | 240 | 210 | 187 | 168 | 140 | 120 | 105 | | |
| | | 10.0 | 2.00 | 480 | 400 | 343 | 300 | 267 | 240 | 200 | 171 | 150 | | |
| | | 15.0 | 2.40 | 576 | 480 | 411 | 360 | 320 | 288 | 240 | 206 | 180 | | |
| | | 20.0 | 2.80 | 672 | 560 | 480 | 420 | 373 | 336 | 280 | 240 | 210 | | |
| D5 | DC25 | 5.0 | 1.70 | 408 | 340 | 291 | 255 | 227 | 204 | 170 | 146 | 128 | | |
| | | 10.0 | 2.40 | 576 | 480 | 411 | 360 | 320 | 288 | 240 | 206 | 180 | | |
| | | 15.0 | 2.90 | 696 | 580 | 497 | 435 | 387 | 348 | 290 | 249 | 218 | | |
| | | 20.0 | 3.30 | 792 | 660 | 566 | 495 | 440 | 396 | 330 | 283 | 248 | | |
| D2 | DC45 | 5.0 | 1.00 | 240 | 200 | 171 | 150 | 133 | 120 | 100 | 85.7 | 75.0 | | |
| | | 10.0 | 1.40 | 336 | 280 | 240 | 210 | 187 | 168 | 140 | 120 | 105 | | |
| | | 15.0 | 1.70 | 408 | 340 | 291 | 255 | 227 | 204 | 170 | 146 | 128 | | |
| | | 20.0 | 2.00 | 480 | 400 | 343 | 300 | 267 | 240 | 200 | 171 | 150 | | |
| D3 | DC45 | 5.0 | 1.20 | 288 | 240 | 206 | 180 | 160 | 144 | 120 | 103 | 90.0 | | |
| | | 10.0 | 1.60 | 384 | 320 | 274 | 240 | 213 | 192 | 160 | 137 | 120 | | |
| | | 15.0 | 2.00 | 480 | 400 | 343 | 300 | 267 | 240 | 200 | 171 | 150 | | |
| | | 20.0 | 2.30 | 552 | 460 | 394 | 345 | 307 | 276 | 230 | 197 | 173 | | |
| D4 | DC45 | 5.0 | 1.80 | 432 | 360 | 309 | 270 | 240 | 216 | 180 | 154 | 135 | | |
| | | 10.0 | 2.50 | 600 | 500 | 429 | 375 | 333 | 300 | 250 | 214 | 188 | | |
| | | 15.0 | 3.10 | 744 | 620 | 531 | 465 | 413 | 372 | 310 | 266 | 233 | | |
| | | 20.0 | 3.60 | 864 | 720 | 617 | 540 | 480 | 432 | 360 | 309 | 270 | | |
| D5 | DC45 | 5.0 | 2.30 | 552 | 460 | 394 | 345 | 307 | 276 | 230 | 197 | 173 | | |
| | | 10.0 | 3.20 | 768 | 640 | 549 | 480 | 427 | 384 | 320 | 274 | 240 | | |
| | | 15.0 | 3.90 | 936 | 780 | 669 | 585 | 520 | 468 | 390 | 334 | 293 | | |
| | | 20.0 | 4.50 | 1080 | 900 | 771 | 675 | 600 | 540 | 450 | 386 | 338 | | |

How to order:

To order orifice disc only, specify disc number and material.

Examples:

- DCER-2 – Ceramic
- D2 – Hardened Stainless Steel
- DE-2 – Stainless Steel
- DVP-2 – Polymer

To order core only, specify core number and material.

Examples:

- DC13-CER – Ceramic
- DC13-HSS – Hardened Stainless Steel
- DC13-AL – Aluminum
- DC13 – Brass
- DC13-NY – Nylon
- CP18999-EPR Seal Gasket

STRAINER NOTE: For nozzles using orifice disc numbers 1, 1.5 and 2; or core numbers 31 and 33, slotted strainer number 4514-20 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer number 4514-32 equivalent to 16 mesh screen size is required.

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 173–187 for useful formulas and information.