

# TopDrip PC & PC AS Drip line



**Engineered for heavy duty surface and subsurface  
drip irrigation applications**

## **TopDrip PC & PC AS Drip line**

- Excellent clogging resistance
- Optimal performance even at low flow rates
- Ideal for open field vegetables, orchards and other multi-seasonal applications

# TopDrip PC & PC AS -engineered for heavy duty surface and subsurface drip irrigation applications

TopDrip PC & PC AS is an innovative, cost-effective, and heavy-duty pressure-compensating (PC) drip line, featuring anti-siphon (PC AS) models, all built on the cascade labyrinth technology.

The TopDrip PC & PC AS Drip Line offers a versatile solution for various agricultural applications, including row crops, vegetables, orchards, and multi-seasonal applications. Its adaptability extends to subsurface drip irrigation (SDI) and variable topography scenarios, ensuring optimal performance in diverse farming environments.

Precision is at the core of TopDrip PC & PC AS, with accurate pressure-compensating drippers ensuring uniform water distribution. The cascade labyrinth technology incorporated in the design provides maximum clog resistance, ensuring uninterrupted operation under heavy dirt load conditions. **Large water passages and a unique double self-cleaning mechanism contribute to the system's durability, maintaining optimal performance at low flow rates.**

TopDrip PC



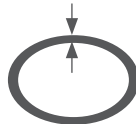
TopDrip PC AS



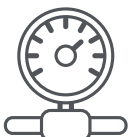
## Technical data



Flow rate:  
**0.6, 1.0, 1.6, 2.0, 2.2, 3.5 l/h**



Wall thickness:  
**0.33-1.19 mm**



Pressure regulating range:  
**0.4-4.0 bar**  
according to wall thickness

# Technical data

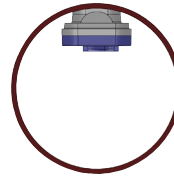
## TopDrip Flow Rate Color Codes

| Dripper Flow rate (l/h) | Dripper Body color | Dripper Cover color |
|-------------------------|--------------------|---------------------|
| 0.6                     | Light green        | Orange              |
| 0.6                     | Light green        | Blue                |
| 1.0                     | Grey               | Orange              |
| 1.0                     | Grey               | Blue                |
| 1.6                     | Light brown        | Orange              |
| 1.6                     | Light brown        | Blue                |
| 2.0                     | Yellow             | Orange              |
| 2.0                     | Yellow             | Blue                |
| 2.2                     | Light blue         | Orange              |
| 2.2                     | Light blue         | Blue                |
| 3.5                     | Light orange       | Orange              |
| 3.5                     | Light orange       | Blue                |

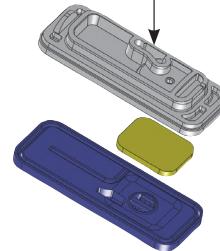
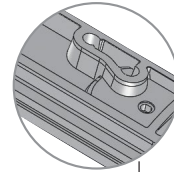
| Nominal diameter (mm) | Wall thickness |       | OD (mm) | ID (mm) | Maximum Pressure (bar) | KD    | Connector type Barbs |
|-----------------------|----------------|-------|---------|---------|------------------------|-------|----------------------|
|                       | (mm)           | (mil) |         |         |                        |       |                      |
| 16                    | 0.89           | 35    | 15.70   | 13.8    | 3.0                    | 0.575 | •                    |
| 16                    | 1.02           | 40    | 15.90   | 13.8    | 3.5                    | 0.575 | •                    |
| 16                    | 1.14           | 45    | 16.20   | 13.8    | 3.5                    | 0.575 | •                    |
| 17                    | 0.89           | 35    | 16.20   | 15.3    | 3.5                    | 0.48  | •                    |
| 17                    | 1.02           | 40    | 16.40   | 15.3    | 3.5                    | 0.48  | •                    |
| 17                    | 1.19           | 47    | 17.00   | 15.3    | 3.5                    | 0.48  | •                    |
| 20                    | 1.02           | 40    | 19.70   | 17.6    | 3.5                    | 0.35  | •                    |
| 20                    | 1.19           | 47    | 20.10   | 17.6    | v                      | 0.35  | •                    |

### 3 Parts-Upper View

Shallow profile reduces head losses  
Raised water inlet reduces clogging

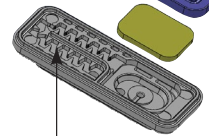
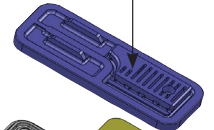
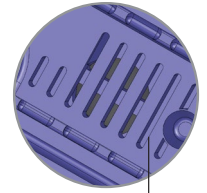


Weir design prevents root intrusion and sand suction



### 3 Parts-Bottom View

Multi-channel: three-dimensional water inlets and eleven independent entrances



Cascade labyrinth, wide water passages and strong self-cleaning operation



## TopDrip Packaging and Shipping

| Carton spools         |                     |                          |                            |                            |                               |
|-----------------------|---------------------|--------------------------|----------------------------|----------------------------|-------------------------------|
| Nominal diameter (mm) | Wall thickness (mm) | Standard coil length (m) | Coils per 20 ft. container | Coils per 40 ft. container | Coils per 40 ft. HC container |
| 16                    | 0.90                | 400                      | 360                        | 640                        | 720                           |
| 16                    | 1.00                | 400                      | 360                        | 640                        | 720                           |
| 17                    | 0.90                | 400                      | 360                        | 640                        | 720                           |
| 17                    | 1.00                | 400                      | 360                        | 640                        | 720                           |
| 20                    | 0.90                | 300                      | 360                        | 640                        | 720                           |
| 20                    | 1.00                | 300                      | 360                        | 640                        | 720                           |

| Coils                 |                     |                          |                            |                            |                               |
|-----------------------|---------------------|--------------------------|----------------------------|----------------------------|-------------------------------|
| Nominal diameter (mm) | Wall thickness (mm) | Standard coil length (m) | Coils per 20 ft. container | Coils per 40 ft. container | Coils per 40 ft. HC container |
| 16                    | 0.90                | 500                      | 150                        | 320                        | 360                           |
| 16                    | 1.00                | 500                      | 150                        | 320                        | 360                           |
| 16                    | 1.15                | 500                      | 150                        | 320                        | 360                           |
| 17                    | 0.90                | 500                      | 150                        | 320                        | 360                           |
| 17                    | 1.00                | 500                      | 150                        | 320                        | 360                           |
| 17                    | 1.20                | 500                      | 150                        | 320                        | 360                           |
| 20                    | 1.00                | 300                      | 150                        | 345                        | 365                           |
| 20                    | 1.20                | 300                      | 150                        | 345                        | 365                           |

\* Dripper spacing can affect coil length.

# TopDrip PC & PC AS

Thin to medium wall PC flat drip line

TopDrip PC



TopDrip PC AS



0.6, 1.0, 1.6, 2.0, 2.2, 3.5 l/h

## Technical data

|  |                                         |  |
|--|-----------------------------------------|--|
|  | Flow rate:                              |  |
|  | <b>0.6, 1.0, 1.6, 2.0, 2.2, 3.5 l/h</b> |  |
|  |                                         |  |
|  |                                         |  |
|  |                                         |  |

|  |                             |  |
|--|-----------------------------|--|
|  | Pressure regulating range:  |  |
|  | <b>0.4-4.0 bar</b>          |  |
|  | according to wall thickness |  |
|  |                             |  |
|  |                             |  |

|  |                     |  |
|--|---------------------|--|
|  | Wall thickness:     |  |
|  | <b>0.33-0.64 mm</b> |  |
|  |                     |  |
|  |                     |  |
|  |                     |  |

| Nominal diameter | Wall thickness |      | ID (mm) | OD (mm) | Max. Pressure (bar) | KD   | Conectors |
|------------------|----------------|------|---------|---------|---------------------|------|-----------|
|                  | mil            | mm   |         |         |                     |      | Tape      |
| 12               | 13             | 0.33 | 11.8    | 12.46   | 1.5                 | 1.03 | •         |
|                  | 15             | 0.38 | 11.8    | 12.56   | 2.0                 | 1.03 | •         |
|                  | 18             | 0.45 | 11.8    | 12.70   | 2.2                 | 1.03 | •         |
|                  | 25             | 0.64 | 11.8    | 13.08   | 3.0                 | 1.03 | •         |
| 16               | 13             | 0.33 | 16.1    | 16.76   | 1.5                 | 0.4  | •         |
|                  | 15             | 0.38 | 16.1    | 16.86   | 1.8                 | 0.4  | •         |
|                  | 18             | 0.45 | 16.1    | 17.00   | 2.0                 | 0.4  | •         |
| 17               | 25             | 0.64 | 15.3    | 16.58   | 2.5                 | 0.4  | •         |
| 22               | 13             | 0.33 | 22.2    | 22.86   | 1.5                 | 0.3  | •         |
|                  | 15             | 0.38 | 22.2    | 22.96   | 1.8                 | 0.3  | •         |
|                  | 18             | 0.45 | 22.2    | 23.10   | 1.8                 | 0.3  | •         |
|                  | 25             | 0.64 | 22.2    | 23.48   | 2.0                 | 0.3  | •         |

## TopDrip Packaging and Shipping

| Carton spools         |                      |                           |                  |                            |                            |                               |
|-----------------------|----------------------|---------------------------|------------------|----------------------------|----------------------------|-------------------------------|
| Nominal diameter (mm) | Wall thickness (mil) | Standard coil* length (m) | Coils per pallet | Coils per 20 ft. container | Coils per 40 ft. container | Coils per 40 ft. HC container |
| 12                    | 13                   | 1250                      | 16               | 360                        | 720                        | 720                           |
|                       | 15                   | 1250                      | 16               | 360                        | 720                        | 720                           |
|                       | 18                   | 1000                      | 16               | 360                        | 720                        | 720                           |
|                       | 25                   | 700                       | 16               | 360                        | 720                        | 720                           |
| 16                    | 13                   | 1250                      | 16               | 360                        | 720                        | 720                           |
|                       | 15                   | 1250                      | 16               | 360                        | 720                        | 720                           |
|                       | 18                   | 1150                      | 16               | 360                        | 720                        | 720                           |
|                       | 25                   | 600                       | 16               | 360                        | 720                        | 720                           |
| 22                    | 13                   | 550                       | 16               | 360                        | 720                        | 720                           |
|                       | 15                   | 500                       | 16               | 360                        | 720                        | 720                           |
|                       | 18                   | 450                       | 16               | 360                        | 720                        | 720                           |
|                       | 25                   | 375                       | 16               | 360                        | 720                        | 720                           |

\* Dripper spacing can affect coil length.

TopDrip Technical data

| Nominal Ø<br>(mm) | Wall thickness |       | Internal<br>Ø<br>(mm) | Maximum<br>operating<br>pressure<br>(bar) | Roll Length<br>(according to<br>emitter spacing)<br>(m) | Flow<br>rate<br>(l/h) | Maximum Drip Line Length   Calculated at maximum Operating Pressure   Slope: 0%<br>Spacing between drippers (cm) |     |     |     |     |     |     |     |     |     |     |
|-------------------|----------------|-------|-----------------------|-------------------------------------------|---------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | mm             | (mil) |                       |                                           |                                                         |                       | 15                                                                                                               | 20  | 30  | 40  | 50  | 60  | 70  | 75  | 80  | 90  | 100 |
|                   |                |       |                       |                                           |                                                         |                       | (m)                                                                                                              | (m) | (m) | (m) | (m) | (m) | (m) | (m) | (m) | (m) | (m) |
| 12                | 0.33           | 13    | 11.8                  | 1.5                                       | 1250                                                    | 0.6                   | 76                                                                                                               | 97  | 138 | 176 | 211 | 243 | 274 | 289 | 303 | 331 | 358 |
|                   |                |       |                       |                                           |                                                         | 1                     | 54                                                                                                               | 70  | 99  | 126 | 151 | 174 | 196 | 208 | 218 | 238 | 257 |
|                   |                |       |                       |                                           |                                                         | 1.6                   | 40                                                                                                               | 51  | 73  | 93  | 111 | 129 | 145 | 153 | 160 | 175 | 190 |
|                   |                |       |                       |                                           |                                                         | 2                     | 34                                                                                                               | 44  | 63  | 80  | 96  | 111 | 125 | 132 | 139 | 152 | 164 |
|                   |                |       |                       |                                           |                                                         | 2.2                   | 32                                                                                                               | 42  | 59  | 75  | 90  | 104 | 118 | 124 | 130 | 143 | 154 |
|                   |                |       |                       |                                           |                                                         | 3.5                   | 24                                                                                                               | 30  | 44  | 55  | 67  | 77  | 87  | 92  | 96  | 106 | 114 |
|                   | 0.38           | 15    |                       | 2                                         |                                                         | 0.6                   | 86                                                                                                               | 112 | 159 | 202 | 243 | 280 | 316 | 333 | 350 | 383 | 413 |
|                   |                |       |                       |                                           |                                                         | 1                     | 62                                                                                                               | 80  | 114 | 145 | 174 | 201 | 227 | 239 | 251 | 275 | 297 |
|                   |                |       |                       |                                           |                                                         | 1.6                   | 45                                                                                                               | 59  | 84  | 106 | 128 | 148 | 167 | 176 | 185 | 203 | 219 |
|                   |                |       |                       |                                           |                                                         | 2                     | 39                                                                                                               | 51  | 72  | 92  | 111 | 128 | 144 | 152 | 160 | 176 | 190 |
|                   |                |       |                       |                                           |                                                         | 2.2                   | 37                                                                                                               | 48  | 68  | 86  | 104 | 120 | 136 | 143 | 150 | 165 | 178 |
|                   |                |       |                       |                                           |                                                         | 3.5                   | 27                                                                                                               | 35  | 50  | 64  | 77  | 89  | 100 | 106 | 111 | 122 | 132 |
|                   | 0.45           | 18    |                       | 2.2                                       | 1000                                                    | 0.6                   | 90                                                                                                               | 117 | 166 | 212 | 254 | 293 | 330 | 348 | 366 | 400 | 432 |
|                   |                |       |                       |                                           |                                                         | 1                     | 65                                                                                                               | 84  | 119 | 152 | 182 | 210 | 237 | 250 | 262 | 287 | 311 |
|                   |                |       |                       |                                           |                                                         | 1.6                   | 47                                                                                                               | 61  | 87  | 111 | 134 | 155 | 174 | 184 | 194 | 212 | 229 |
|                   |                |       |                       |                                           |                                                         | 2                     | 41                                                                                                               | 53  | 75  | 96  | 116 | 134 | 151 | 159 | 167 | 183 | 198 |
|                   |                |       |                       |                                           |                                                         | 2.2                   | 38                                                                                                               | 50  | 71  | 90  | 109 | 125 | 142 | 150 | 158 | 172 | 186 |
|                   |                |       |                       |                                           |                                                         | 3.5                   | 28                                                                                                               | 37  | 52  | 67  | 80  | 93  | 105 | 110 | 116 | 127 | 138 |
|                   | 0.64           | 25    |                       | 3                                         | 700                                                     | 0.6                   | 103                                                                                                              | 133 | 190 | 242 | 290 | 335 | 378 | 399 | 419 | 458 | 496 |
|                   |                |       |                       |                                           |                                                         | 1                     | 74                                                                                                               | 95  | 136 | 173 | 208 | 241 | 272 | 287 | 301 | 329 | 356 |
|                   |                |       |                       |                                           |                                                         | 1.6                   | 54                                                                                                               | 70  | 100 | 127 | 153 | 177 | 200 | 211 | 222 | 243 | 263 |
|                   |                |       |                       |                                           |                                                         | 2                     | 47                                                                                                               | 60  | 86  | 110 | 132 | 153 | 173 | 182 | 192 | 210 | 227 |
| 2.2               |                |       | 44                    |                                           |                                                         | 57                    | 81                                                                                                               | 103 | 125 | 144 | 162 | 172 | 180 | 197 | 214 |     |     |
| 3.5               |                |       | 32                    |                                           |                                                         | 42                    | 60                                                                                                               | 76  | 92  | 106 | 120 | 127 | 134 | 146 | 158 |     |     |
| 16                | 0.33           | 13    | 16.1                  | 1.5                                       | 1000                                                    | 0.6                   | 138                                                                                                              | 179 | 254 | 323 | 387 | 447 | 503 | 531 | 557 | 609 | 658 |
|                   |                |       |                       |                                           |                                                         | 1                     | 99                                                                                                               | 128 | 182 | 231 | 277 | 320 | 361 | 381 | 400 | 438 | 474 |
|                   |                |       |                       |                                           |                                                         | 1.6                   | 72                                                                                                               | 94  | 134 | 170 | 204 | 236 | 266 | 281 | 295 | 323 | 350 |
|                   |                |       |                       |                                           |                                                         | 2                     | 63                                                                                                               | 81  | 116 | 147 | 177 | 205 | 231 | 243 | 256 | 279 | 303 |
|                   |                |       |                       |                                           |                                                         | 2.2                   | 59                                                                                                               | 76  | 108 | 138 | 166 | 192 | 217 | 229 | 240 | 262 | 284 |
|                   |                |       |                       |                                           |                                                         | 3.5                   | 43                                                                                                               | 56  | 80  | 102 | 123 | 142 | 160 | 169 | 178 | 194 | 211 |
|                   | 0.38           | 15    |                       | 1.8                                       |                                                         | 0.6                   | 151                                                                                                              | 196 | 278 | 354 | 424 | 490 | 552 | 583 | 612 | 669 | 723 |
|                   |                |       |                       |                                           |                                                         | 1                     | 108                                                                                                              | 140 | 199 | 254 | 304 | 352 | 396 | 419 | 440 | 481 | 520 |
|                   |                |       |                       |                                           |                                                         | 1.6                   | 79                                                                                                               | 103 | 146 | 187 | 224 | 259 | 293 | 309 | 325 | 355 | 384 |
|                   |                |       |                       |                                           |                                                         | 2                     | 68                                                                                                               | 89  | 127 | 162 | 194 | 224 | 253 | 267 | 281 | 307 | 332 |
|                   |                |       |                       |                                           |                                                         | 2.2                   | 64                                                                                                               | 83  | 119 | 152 | 182 | 211 | 238 | 251 | 264 | 289 | 312 |
|                   |                |       |                       |                                           |                                                         | 3.5                   | 47                                                                                                               | 61  | 88  | 112 | 135 | 156 | 176 | 186 | 195 | 213 | 231 |
|                   | 0.46           | 18    |                       | 2                                         | 800                                                     | 0.6                   | 159                                                                                                              | 206 | 292 | 372 | 446 | 515 | 581 | 613 | 644 | 703 | 761 |
|                   |                |       |                       |                                           |                                                         | 1                     | 114                                                                                                              | 147 | 209 | 266 | 320 | 370 | 417 | 440 | 463 | 506 | 548 |
|                   |                |       |                       |                                           |                                                         | 1.6                   | 83                                                                                                               | 108 | 154 | 196 | 236 | 273 | 308 | 325 | 342 | 374 | 404 |
|                   |                |       |                       |                                           |                                                         | 2                     | 72                                                                                                               | 93  | 133 | 170 | 204 | 236 | 266 | 281 | 295 | 323 | 350 |
|                   |                |       |                       |                                           |                                                         | 2.2                   | 68                                                                                                               | 88  | 125 | 159 | 192 | 222 | 251 | 264 | 278 | 303 | 329 |
|                   |                |       |                       |                                           |                                                         | 3.5                   | 50                                                                                                               | 64  | 92  | 118 | 142 | 164 | 185 | 195 | 206 | 225 | 243 |
|                   | 0.89           | 35    |                       | 3                                         | 500                                                     | 0.6                   | 152                                                                                                              | 195 | 277 | 351 | 420 | 484 | 545 | 574 | 602 | 659 | 711 |
|                   |                |       |                       |                                           |                                                         | 1                     | 108                                                                                                              | 140 | 198 | 252 | 302 | 348 | 392 | 413 | 434 | 473 | 512 |
|                   |                |       |                       |                                           |                                                         | 1.6                   | 80                                                                                                               | 103 | 146 | 186 | 222 | 256 | 289 | 305 | 320 | 349 | 378 |
|                   |                |       |                       |                                           |                                                         | 2                     | 69                                                                                                               | 89  | 126 | 160 | 192 | 222 | 250 | 263 | 277 | 302 | 327 |
| 2.2               |                |       | 65                    |                                           |                                                         | 83                    | 119                                                                                                              | 150 | 181 | 208 | 235 | 248 | 260 | 284 | 307 |     |     |
| 3.5               |                |       | 47                    |                                           |                                                         | 61                    | 87                                                                                                               | 111 | 134 | 154 | 174 | 183 | 193 | 211 | 228 |     |     |
| 1.02              | 40             | 3.5   | 0.6                   | 161                                       |                                                         | 208                   | 295                                                                                                              | 374 | 448 | 516 | 581 | 612 | 642 | 703 | 759 |     |     |
|                   |                |       | 1                     | 115                                       |                                                         | 149                   | 211                                                                                                              | 268 | 322 | 371 | 418 | 440 | 462 | 505 | 546 |     |     |
|                   |                |       | 1.6                   | 85                                        |                                                         | 109                   | 155                                                                                                              | 198 | 237 | 274 | 308 | 325 | 341 | 373 | 403 |     |     |
|                   |                |       | 2                     | 73                                        |                                                         | 94                    | 134                                                                                                              | 171 | 205 | 236 | 267 | 281 | 295 | 322 | 349 |     |     |
|                   |                |       | 2.2                   | 69                                        |                                                         | 89                    | 126                                                                                                              | 160 | 193 | 222 | 251 | 264 | 278 | 303 | 328 |     |     |
|                   |                |       | 3.5                   | 50                                        |                                                         | 65                    | 93                                                                                                               | 118 | 142 | 164 | 186 | 196 | 206 | 224 | 243 |     |     |
| 1.14              | 45             | 3.5   | 0.6                   | 161                                       | 208                                                     | 295                   | 374                                                                                                              | 448 | 516 | 581 | 612 | 642 | 703 | 759 |     |     |     |
|                   |                |       | 1                     | 115                                       | 149                                                     | 211                   | 268                                                                                                              | 322 | 371 | 418 | 440 | 462 | 505 | 546 |     |     |     |
|                   |                |       | 1.6                   | 85                                        | 109                                                     | 155                   | 198                                                                                                              | 237 | 274 | 308 | 325 | 341 | 373 | 403 |     |     |     |
|                   |                |       | 2                     | 73                                        | 94                                                      | 134                   | 171                                                                                                              | 205 | 236 | 267 | 281 | 295 | 322 | 349 |     |     |     |
|                   |                |       | 2.2                   | 69                                        | 89                                                      | 126                   | 160                                                                                                              | 193 | 222 | 251 | 264 | 278 | 303 | 328 |     |     |     |
|                   |                |       | 3.5                   | 50                                        | 65                                                      | 93                    | 118                                                                                                              | 142 | 164 | 186 | 196 | 206 | 224 | 243 |     |     |     |

| Nominal Ø<br>(mm) | Wall thickness |       | Internal Ø<br>(mm) | Maximum<br>operating<br>pressure<br>(bar) | Roll Length<br>(according to<br>emitter spacing)<br>(m) | Flow<br>rate<br>(l/h) | Maximum Drip Line Length   Calculated at maximum Operating Pressure   Slope: 0%<br>Spacing between drippers (cm) |     |     |     |     |     |      |      |      |      |      |      |     |     |     |
|-------------------|----------------|-------|--------------------|-------------------------------------------|---------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-----|
|                   | mm             | (mil) |                    |                                           |                                                         |                       | 15                                                                                                               | 20  | 30  | 40  | 50  | 60  | 70   | 75   | 80   | 90   | 100  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         |                       | (m)                                                                                                              | (m) | (m) | (m) | (m) | (m) | (m)  | (m)  | (m)  | (m)  | (m)  | (m)  |     |     |     |
| 17                | 0.64           | 25    | 15.3               | 2.5                                       | 600                                                     | 0.6                   | 183                                                                                                              | 234 | 327 | 410 | 487 | 559 | 625  | 658  | 689  | 750  | 808  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 1                     | 131                                                                                                              | 168 | 235 | 295 | 350 | 402 | 450  | 473  | 496  | 540  | 582  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 1.6                   | 96                                                                                                               | 123 | 173 | 218 | 259 | 296 | 333  | 350  | 366  | 399  | 430  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2                     | 83                                                                                                               | 107 | 149 | 188 | 224 | 257 | 288  | 303  | 318  | 346  | 373  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2.2                   | 78                                                                                                               | 100 | 140 | 177 | 210 | 241 | 271  | 285  | 298  | 325  | 350  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 3.5                   | 58                                                                                                               | 74  | 104 | 131 | 156 | 179 | 200  | 211  | 221  | 241  | 260  |      |     |     |     |
|                   | 0.89           | 35    |                    | 3.5                                       | 500                                                     | 0.6                   | 211                                                                                                              | 270 | 377 | 473 | 563 | 645 | 722  | 760  | 796  | 867  | 934  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 1                     | 151                                                                                                              | 193 | 270 | 340 | 404 | 464 | 520  | 548  | 574  | 625  | 673  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 1.6                   | 111                                                                                                              | 142 | 199 | 251 | 298 | 343 | 384  | 404  | 423  | 461  | 497  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2                     | 96                                                                                                               | 123 | 172 | 217 | 258 | 296 | 333  | 350  | 366  | 400  | 431  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2.2                   | 90                                                                                                               | 115 | 162 | 204 | 243 | 278 | 313  | 329  | 345  | 375  | 405  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 3.5                   | 66                                                                                                               | 85  | 119 | 151 | 180 | 206 | 232  | 244  | 255  | 278  | 300  |      |     |     |     |
|                   | 1.02           | 40    |                    | 3.5                                       | 500                                                     | 0.6                   | 211                                                                                                              | 270 | 377 | 473 | 563 | 645 | 722  | 760  | 796  | 867  | 934  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 1                     | 151                                                                                                              | 193 | 270 | 340 | 404 | 464 | 520  | 548  | 574  | 625  | 673  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 1.6                   | 111                                                                                                              | 142 | 199 | 251 | 298 | 343 | 384  | 404  | 423  | 461  | 497  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2                     | 96                                                                                                               | 123 | 172 | 217 | 258 | 296 | 333  | 350  | 366  | 400  | 431  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2.2                   | 90                                                                                                               | 115 | 162 | 204 | 243 | 278 | 313  | 329  | 345  | 375  | 405  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 3.5                   | 66                                                                                                               | 85  | 119 | 151 | 180 | 206 | 232  | 244  | 255  | 278  | 300  |      |     |     |     |
|                   | 1.19           | 47    | 3.5                | 500                                       | 0.6                                                     | 211                   | 270                                                                                                              | 377 | 473 | 563 | 645 | 722 | 760  | 796  | 867  | 934  |      |      |     |     |     |
|                   |                |       |                    |                                           | 1                                                       | 151                   | 193                                                                                                              | 270 | 340 | 404 | 464 | 520 | 548  | 574  | 625  | 673  |      |      |     |     |     |
|                   |                |       |                    |                                           | 1.6                                                     | 111                   | 142                                                                                                              | 199 | 251 | 298 | 343 | 384 | 404  | 423  | 461  | 497  |      |      |     |     |     |
|                   |                |       |                    |                                           | 2                                                       | 96                    | 123                                                                                                              | 172 | 217 | 258 | 296 | 333 | 350  | 366  | 400  | 431  |      |      |     |     |     |
|                   |                |       |                    |                                           | 2.2                                                     | 90                    | 115                                                                                                              | 162 | 204 | 243 | 278 | 313 | 329  | 345  | 375  | 405  |      |      |     |     |     |
|                   |                |       |                    |                                           | 3.5                                                     | 66                    | 85                                                                                                               | 119 | 151 | 180 | 206 | 232 | 244  | 255  | 278  | 300  |      |      |     |     |     |
|                   | 20             | 1.02  | 40                 | 17.6                                      | 3.5                                                     | 300                   | 0.6                                                                                                              | 277 | 353 | 491 | 615 | 728 | 833  | 932  | 979  | 1026 | 1115 | 1201 |     |     |     |
|                   |                |       |                    |                                           |                                                         |                       | 1                                                                                                                | 198 | 253 | 352 | 442 | 524 | 599  | 671  | 705  | 738  | 803  | 865  |     |     |     |
| 1.6               |                |       |                    |                                           |                                                         |                       | 146                                                                                                              | 186 | 260 | 326 | 386 | 443 | 496  | 521  | 546  | 594  | 640  |      |     |     |     |
| 2                 |                |       |                    |                                           |                                                         |                       | 126                                                                                                              | 161 | 224 | 282 | 335 | 383 | 429  | 452  | 473  | 515  | 555  |      |     |     |     |
| 2.2               |                |       |                    |                                           |                                                         |                       | 118                                                                                                              | 151 | 211 | 265 | 315 | 361 | 404  | 425  | 445  | 484  | 522  |      |     |     |     |
| 3.5               |                |       |                    |                                           |                                                         |                       | 87                                                                                                               | 112 | 156 | 196 | 233 | 267 | 299  | 315  | 330  | 359  | 387  |      |     |     |     |
| 1.19              |                | 47    | 3.5                |                                           | 300                                                     |                       | 0.6                                                                                                              | 277 | 353 | 491 | 615 | 728 | 833  | 932  | 979  | 1026 | 1115 | 1201 |     |     |     |
|                   |                |       |                    |                                           |                                                         |                       | 1                                                                                                                | 198 | 253 | 352 | 442 | 524 | 599  | 671  | 705  | 738  | 803  | 865  |     |     |     |
|                   |                |       |                    |                                           |                                                         |                       | 1.6                                                                                                              | 146 | 186 | 260 | 326 | 386 | 443  | 496  | 521  | 546  | 594  | 640  |     |     |     |
|                   |                |       |                    |                                           |                                                         |                       | 2                                                                                                                | 126 | 161 | 224 | 282 | 335 | 383  | 429  | 452  | 473  | 515  | 555  |     |     |     |
|                   |                |       |                    |                                           |                                                         |                       | 2.2                                                                                                              | 118 | 151 | 211 | 265 | 315 | 361  | 404  | 425  | 445  | 484  | 522  |     |     |     |
|                   |                |       |                    |                                           |                                                         |                       | 3.5                                                                                                              | 87  | 112 | 156 | 196 | 233 | 267  | 299  | 315  | 330  | 359  | 387  |     |     |     |
| 22                | 0.33           | 13    | 22.2               | 1.5                                       | 800                                                     | 0.6                   | 276                                                                                                              | 352 | 490 | 613 | 726 | 832 | 930  | 978  | 1023 | 1114 | 1199 |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 1                     | 197                                                                                                              | 252 | 351 | 440 | 522 | 598 | 669  | 704  | 737  | 801  | 863  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 0.38                  | 15                                                                                                               | 1.8 | 800 | 1.6 | 145 | 185 | 259  | 324  | 385  | 442  | 495  | 520  | 545 | 593 | 639 |
|                   |                |       |                    |                                           |                                                         |                       |                                                                                                                  |     |     | 2   | 125 | 160 | 224  | 281  | 334  | 382  | 428  | 450  | 472 | 513 | 553 |
|                   |                |       |                    |                                           |                                                         |                       |                                                                                                                  |     |     | 2.2 | 118 | 150 | 210  | 264  | 314  | 359  | 403  | 423  | 444 | 484 | 521 |
|                   |                |       |                    |                                           |                                                         |                       |                                                                                                                  |     |     | 3.5 | 87  | 111 | 155  | 196  | 232  | 267  | 299  | 314  | 329 | 359 | 387 |
|                   | 0.6            | 302   |                    | 386                                       | 537                                                     |                       |                                                                                                                  |     |     | 673 | 798 | 914 | 1023 | 1075 | 1126 | 1225 | 1319 |      |     |     |     |
|                   | 1              | 216   |                    | 276                                       | 385                                                     |                       |                                                                                                                  |     |     | 484 | 574 | 657 | 736  | 773  | 810  | 881  | 950  |      |     |     |     |
|                   | 0.46           | 18    |                    | 1.8                                       | 450                                                     | 1.6                   | 159                                                                                                              | 203 | 284 | 356 | 424 | 485 | 544  | 572  | 599  | 652  | 702  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2                     | 137                                                                                                              | 176 | 246 | 308 | 367 | 420 | 470  | 495  | 518  | 564  | 608  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2.2                   | 129                                                                                                              | 165 | 231 | 290 | 345 | 395 | 442  | 466  | 488  | 532  | 573  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 3.5                   | 95                                                                                                               | 122 | 170 | 215 | 256 | 293 | 328  | 346  | 362  | 394  | 425  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 0.6                   | 302                                                                                                              | 386 | 537 | 673 | 798 | 914 | 1023 | 1075 | 1126 | 1225 | 1319 |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 1                     | 216                                                                                                              | 276 | 385 | 484 | 574 | 657 | 736  | 773  | 810  | 881  | 950  |      |     |     |     |
|                   | 0.64           | 25    |                    | 2                                         | 375                                                     | 1.6                   | 159                                                                                                              | 203 | 284 | 356 | 424 | 485 | 544  | 572  | 599  | 652  | 702  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2                     | 137                                                                                                              | 176 | 246 | 308 | 367 | 420 | 470  | 495  | 518  | 564  | 608  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 2.2                   | 129                                                                                                              | 165 | 231 | 290 | 345 | 395 | 442  | 466  | 488  | 532  | 573  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 3.5                   | 95                                                                                                               | 122 | 170 | 215 | 256 | 293 | 328  | 346  | 362  | 394  | 425  |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 0.6                   | 318                                                                                                              | 405 | 565 | 708 | 840 | 961 | 1076 | 1131 | 1185 | 1290 | 1389 |      |     |     |     |
|                   |                |       |                    |                                           |                                                         | 1                     | 227                                                                                                              | 290 | 405 | 509 | 604 | 691 | 774  | 814  | 853  | 928  | 1000 |      |     |     |     |

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