

# VARDIT

PC Dripper

---



✉ [Info@Metzerplas.com](mailto:Info@Metzerplas.com) ☎ +972-4-6387001 🌐 [metzer-group.com](http://metzer-group.com)

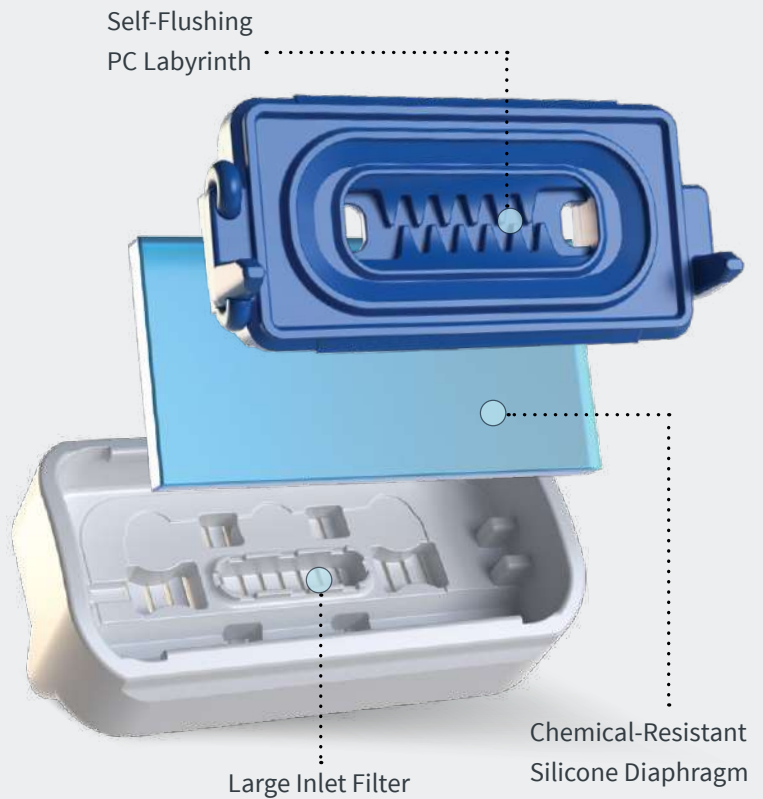
# VARDIT | PC Dripper

## Primary Labyrinth



Primary Labyrinth with Wide Water Passages

## Structure & Parts



Dripper flow rates | 0.85 / 1.0 / 1.2 / 1.6 / 2.1 / 3.4 l/h

Dripline diameters | 16 / 17 / 20 / 22 / 25 mm

Dripline wall thickness | 0.4 - 1.25 mm

Recommended filtration | 120 mesh / 130 micron



## VARDIT Features

- Efficient and cost-effective dripper
- Wide range of working pressures for various topographies
- Uniform flow rate
- Expanded inlet filter
- Highly accurate pressure-compensating labyrinth mechanism
- Wide water passages along the labyrinth
- Suitable for different water sources and quality
- Long-lasting silicone diaphragm
- Durable under harsh field conditions and chemical applications

# VARDIT | Drippers Data

## VARDIT 16

Dripline max. lateral length (m) | I.D. 15.2 mm, W.T. 0.6 mm, nominal diameter 16 mm, slope = 0%  
Inlet pressure - 2.5 bar

| Nominal Flow Rate (l/h) | Spacing between Drippers (cm) |     |     |     |     |     |     |
|-------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|
|                         | 20                            | 30  | 40  | 50  | 60  | 75  | 100 |
| 0.85                    | 214                           | 285 | 348 | 405 | 458 | 531 | 642 |
| 1.0                     | 192                           | 257 | 314 | 365 | 412 | 479 | 579 |
| 1.2                     | 171                           | 228 | 279 | 325 | 367 | 426 | 515 |
| 1.6                     | 142                           | 189 | 232 | 270 | 305 | 354 | 429 |
| 2.1                     | 119                           | 159 | 194 | 227 | 256 | 297 | 360 |
| 3.4                     | 87                            | 116 | 142 | 166 | 188 | 219 | 265 |

## VARDIT 17

Dripline max. lateral length (m) | I.D. 15.0 mm, W.T. 0.9 mm, nominal diameter 17 mm, slope = 0%  
Inlet pressure - 3.0 bar

| Nominal Flow Rate (l/h) | Spacing between Drippers (cm) |     |     |     |     |     |     |
|-------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|
|                         | 20                            | 30  | 40  | 50  | 60  | 75  | 100 |
| 0.85                    | 226                           | 303 | 371 | 432 | 489 | 567 | 687 |
| 1.0                     | 203                           | 273 | 334 | 389 | 441 | 512 | 619 |
| 1.2                     | 180                           | 242 | 297 | 346 | 392 | 455 | 551 |
| 1.6                     | 152                           | 203 | 248 | 290 | 327 | 380 | 460 |
| 2.1                     | 127                           | 171 | 208 | 243 | 275 | 319 | 387 |
| 3.4                     | 93                            | 125 | 153 | 178 | 202 | 234 | 284 |

## VARDIT 20

Dripline max. lateral length (m) | I.D. 17.4 mm, W.T. 1.0 mm, nominal diameter 20 mm, slope = 0%  
Inlet pressure - 3.5 bar

| Nominal Flow Rate (l/h) | Spacing between Drippers (cm) |     |     |      |     |     |     |
|-------------------------|-------------------------------|-----|-----|------|-----|-----|-----|
|                         | 20                            | 30  | 40  | 50   | 60  | 75  | 100 |
| 0.85                    | 340                           | 445 | 538 | 622  | 700 | 808 | 972 |
| 1.0                     | 306                           | 401 | 484 | 561  | 631 | 729 | 877 |
| 1.2                     | 272                           | 357 | 431 | 499  | 561 | 648 | 780 |
| 1.6                     | 226                           | 296 | 358 | 4015 | 467 | 540 | 649 |
| 2.1                     | 189                           | 245 | 301 | 348  | 392 | 453 | 546 |
| 3.4                     | 139                           | 182 | 221 | 256  | 288 | 333 | 401 |

# VARDIT | Drippers Data

## VARDIT 22

Dripline max. lateral length (m) | I.D. 21.0 mm, W.T. 1.0 mm, nominal diameter 22 mm, slope = 0%  
Inlet pressure - 3.5 bar

| Nominal Flow Rate<br>(l/h) | Spacing between Drippers (cm) |     |     |     |     |      |      |
|----------------------------|-------------------------------|-----|-----|-----|-----|------|------|
|                            | 20                            | 30  | 40  | 50  | 60  | 75   | 100  |
| 0.85                       | 471                           | 616 | 744 | 861 | 969 | 1119 | 1346 |
| 1.0                        | 424                           | 555 | 671 | 776 | 873 | 1008 | 1213 |
| 1.2                        | 377                           | 494 | 597 | 690 | 777 | 897  | 1080 |
| 1.6                        | 313                           | 410 | 496 | 574 | 646 | 747  | 899  |
| 2.1                        | 262                           | 344 | 416 | 482 | 543 | 627  | 755  |
| 3.4                        | 192                           | 252 | 306 | 354 | 399 | 461  | 555  |

## VARDIT 25

Dripline max. lateral length (m) | I.D. 24.7 mm, W.T. 1.0 mm, nominal diameter 25 mm, slope = 0%  
Inlet pressure - 3.5 bar

| Nominal Flow Rate<br>(l/h) | Spacing between Drippers (cm) |     |     |      |      |      |      |
|----------------------------|-------------------------------|-----|-----|------|------|------|------|
|                            | 20                            | 30  | 40  | 50   | 60   | 75   | 100  |
| 0.85                       | 640                           | 831 | 999 | 1152 | 1293 | 1591 | 1790 |
| 1.0                        | 549                           | 724 | 878 | 1018 | 1147 | 1326 | 1598 |
| 1.2                        | 513                           | 666 | 801 | 924  | 1038 | 1196 | 1437 |
| 1.6                        | 426                           | 554 | 666 | 768  | 863  | 995  | 1196 |
| 2.1                        | 357                           | 465 | 560 | 646  | 726  | 837  | 1005 |
| 3.4                        | 262                           | 341 | 411 | 474  | 533  | 615  | 739  |

\* Customized spacing between drippers is available upon request.



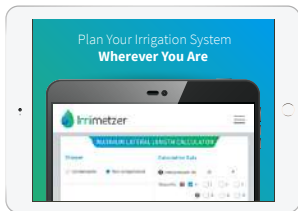
# VARDIT | Drippers Data



## Technical Data

| Drip Line Nominal Diameter | Inside Diameter (mm) | Wall Thickness (mm) | Minimum Working Pressure (bar) | Maximum Working Pressure (bar) | Dripper Kd |
|----------------------------|----------------------|---------------------|--------------------------------|--------------------------------|------------|
| Vardit 16 mm               | 15.8                 | 0.3 - 0.4           | 0.8                            | 2.0                            | 0.20       |
| Vardit 16 mm               | 15.2                 | 0.6                 | 0.8                            | 2.5                            | 0.22       |
| Vardit 16 mm               | 13.8                 | 0.9 - 1.2           | 0.8                            | 3.0 - 4.0                      | 0.27       |
| Vardit 17 mm               | 15.8                 | 0.6                 | 0.8                            | 2.5                            | 0.20       |
| Vardit 17 mm               | 15                   | 0.9 - 1.15          | 0.8                            | 3.0 - 4.0                      | 0.22       |
| Vardit 20 mm               | 17.4                 | 0.9 - 1.25          | 0.8                            | 3.0 - 3.5                      | 0.10       |
| Vardit 22 mm               | 21                   | 1.0 - 1.1           | 0.8                            | 3.5                            | 0.08       |
| Vardit 25 mm               | 24.7                 | 1.0                 | 0.8                            | 3.5                            | 0.05       |

Note: max. pressure in the lateral is according to the diameter and W.T. specification.



For more details, please visit our cutting-edge application for irrigation system design:

[irrimetzer.metzer-group.com](http://irrimetzer.metzer-group.com)



Metzer reserves the right to redesign/modify its products and change the information in this document at any time without prior notice and without incurring any responsibility or liability for errors published here.

# VARDIT | Transport Packaging

## Narrow Drum 22.5 cm H \* 57 cm O.D. (up to 0.4 mm W.T.)



### PALLET

#### 20ft container

4 drums per layer \* 9 layers. Total: 36 drums

#### 40ft HC container

4 drums per layer \* 10 layers. Total: 40 drums

### CONTAINER

#### 20ft container

10 pallets. Total: 360 drums

#### 40ft HC container

20 pallets + 80 loose drums. Total: 880 drums

## Medium Drum 28.5 cm H \* 57 cm O.D. (for 0.6 - 0.9 mm W.T.)



### PALLET

#### 40ft HC container

4 drums per layer \* 4 layers + 4 drums per layer \* 4 layers  
Total: 32 drums

### CONTAINER

#### 40ft HC container

40 pallets + 24 loose drums  
Total: 664 drums

## Wide Drum 33.5 cm H \* 57 cm O.D. (for 0.6 - 1.0 mm W.T.)



### PALLET

#### 20ft container

4 drums per layer \* 6 layers. Total: 24 drums

#### 40ft HC container

4 drums per layer \* 6 layers. Total: 24 drums

### CONTAINER

#### 20ft container

10 pallets. Total: 240 drums

#### 40ft HC container

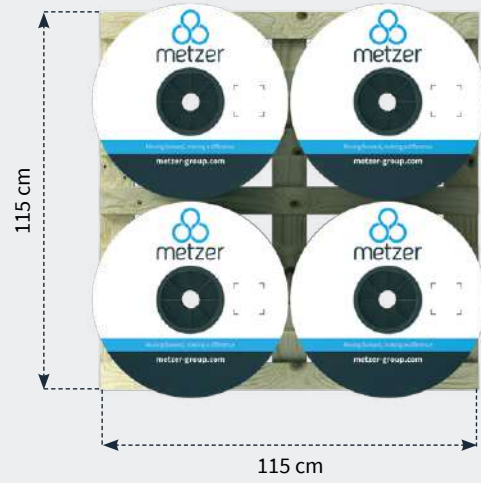
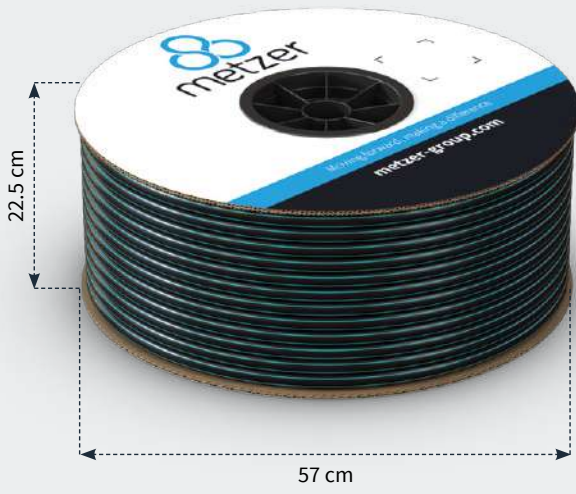
20 pallets + 20 loose drums. Total: 500 drums

| Dripline | Wall Thickness (mil/mm) | Length (m)  |             | Drum Average Weight (kg)* |             |
|----------|-------------------------|-------------|-------------|---------------------------|-------------|
|          |                         | Up to 20 cm | Above 20 cm | Up to 20 cm               | Above 20 cm |
| 16 mm    | 16 / 0.4                |             | 1000 Narrow |                           | 21          |
|          | 24 / 0.6                | 500 Medium  | 700 Medium  | 16                        | 21          |
|          | 36 / 0.9                | 400 Medium  | 400 Medium  | 18                        | 22          |
| 17 mm    | 16 / 0.4                |             | 1000 Narrow |                           | 22          |
|          | 24 / 0.6                | 500 Medium  | 700 Medium  | 16                        | 22          |
|          | 36 / 0.9                | 400 Medium  | 400 Medium  | 19                        | 24          |

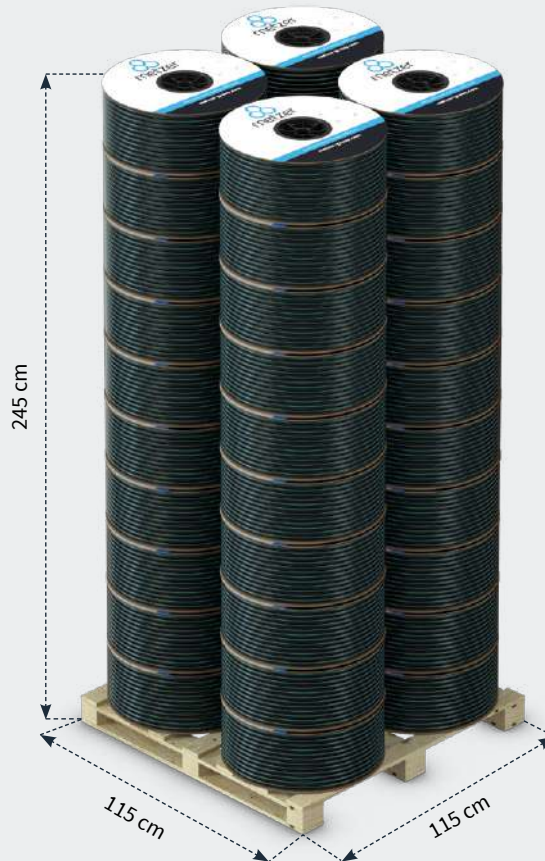
| Dripline | Wall Thickness (mil/mm) | Length (m) | Drum Average Weight (kg)* |
|----------|-------------------------|------------|---------------------------|
| 20 mm    | 36 / 0.9                | 400 Wide   | 22                        |
|          | 40 / 1.0                | 400 Wide   | 24                        |
| 22 mm    | 36 / 0.9                | 350 Wide   | 23                        |
|          | 40 / 1.0                | 350 Wide   | 25                        |
| 25 mm    | 40 / 1.0                | 300 Wide   | 26                        |

\* According to dripper spacing.

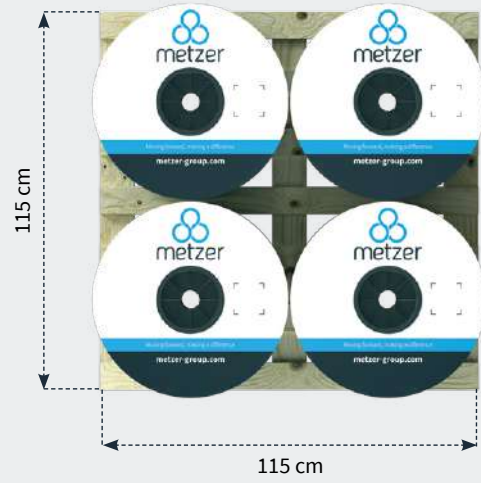
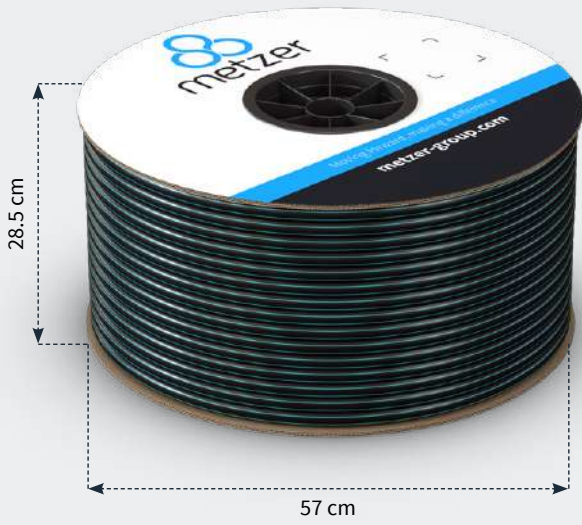
**Narrow Drum (up to 0.4 mm W.T.)**



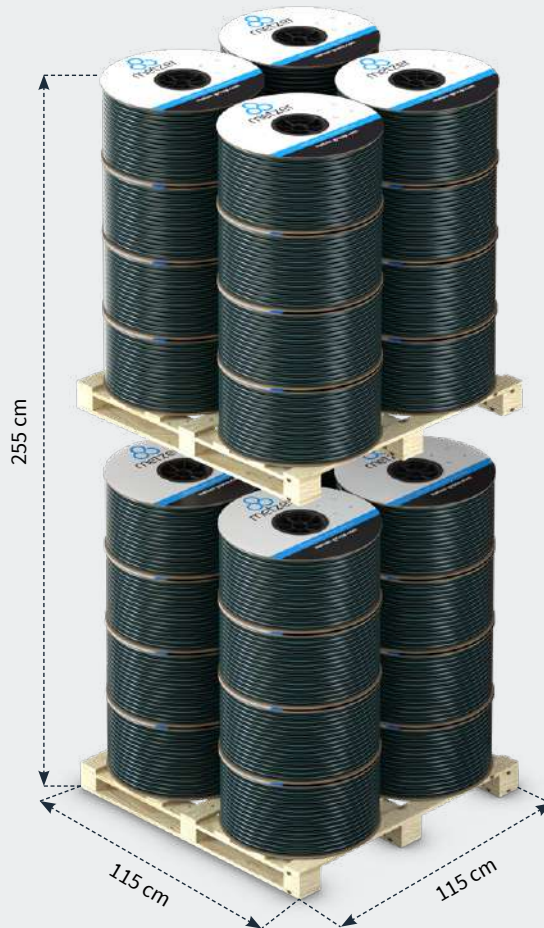
**40ft HC Container**



**Medium Drum (for 0.6 - 0.9 mm W.T.)**

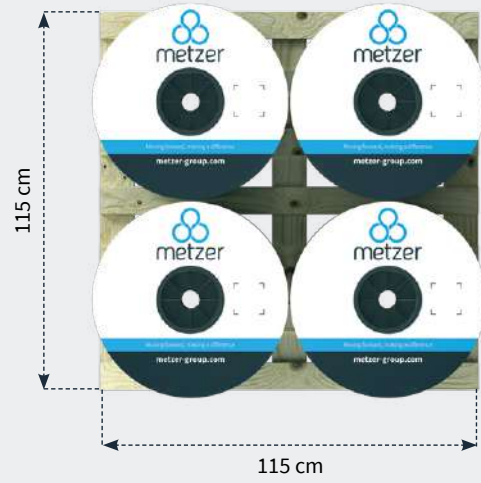
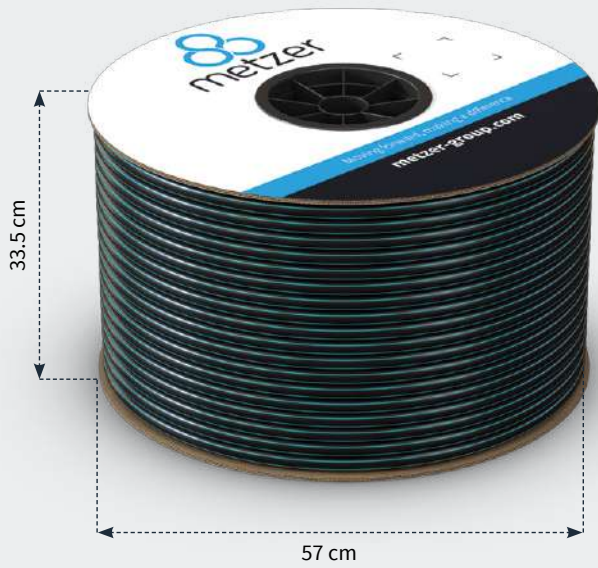


**40ft HC Container**





**Wide Drum** (for 0.6 - 1.0 mm W.T.)



**40ft HC Container**

