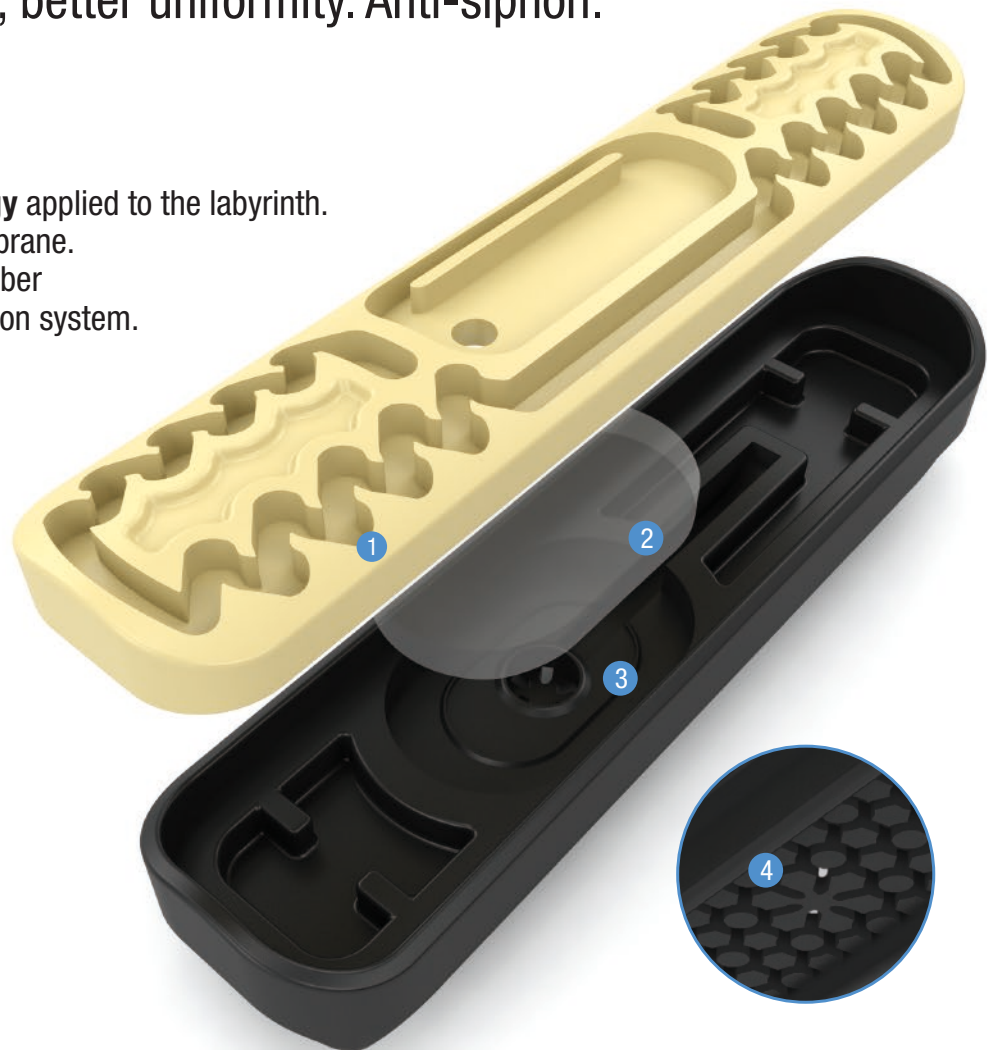


AZUD PREMIER_{PC AS}

Better technology, better uniformity. Anti-siphon.

- 1 **DS Technology** applied to the labyrinth.
- 2 **SILITEC** membrane.
- 3 **ELIPSIS** chamber
- 4 **H.E.X.** protection system.



What it is

AZUD PREMIER PC AS is the new flat Pressure Compensating dripper bond-on in multi-seasonal driplines developed by AZUD based on four key elements:

- Anti-siphon system.
- **DS Technology** applied to the labyrinth.
- **SILITEC** membrane.
- **ELIPSIS** chamber
- **H.E.X.** protection system.

Application

- Sub-surface irrigation for multiseasonal crops.
- For irrigation in intensive crops.
- For tree exploitations.
- For irrigation in greenhouses.

Advantages

- **Anti-siphon system (AS):** It prevents the introduction of contaminants inside the emitter.
- **Maximum resistance to clogging.** The design of the labyrinth, with **DS Technology** and **H.E.X.** protection system, guarantees a high resistance to clogging.
- **Higher pressure-compensating range.** **SILITEC** membrane, manufactured in LSR, provides high dimensional, physical, chemical and mechanical accuracy, obtaining a uniform flow rate, high performance of the dripper and higher pressure-compensating range.
- **A long life of high performance.** **ELIPSIS** is a pressure-compensating chamber designed to the perfect combination together with the membrane, obtaining an optimum performance for a higher work interval not only in the compensation pressures but also in the remaining of its useful life.
- **Guaranteed quality.** AZUD applies to each dripper a technologically advanced quality control system that guarantees to 100% its performance.



| Model | AZUD PREMIER PC AS 16 | | | | | | AZUD PREMIER PC AS 20 | | | | | |
|--|-----------------------|----------|----------|----------|----------|----------|-----------------------|----------|----------|----------|----------|----------|
| | 1L | 1.6L | 2L | 2.3L | 3L | 3.5L | 1L | 1.6L | 2L | 2.3L | 3L | 3.5L |
| Nominal flow l/h gph | 0.9 0.24 | 1.5 0.39 | 1.9 0.50 | 2.2 0.58 | 2.9 0.77 | 3.4 0.90 | 0.9 0.24 | 1.5 0.39 | 1.9 0.50 | 2.2 0.58 | 2.9 0.77 | 3.4 0.90 |
| Inner diameter mm in | 13.7 0.54 | | | | | | 17.2 0.68 | | | | | |
| Nominal thickness AZUD PREMIER mm mil | 0.9 35 | | 1.0 39 | | 1.1 43 | | 1.1 43 | | 1.2 47 | | 1.2 47 | |
| Nominal thickness AZUD PREMIER RD mm mil | 1.1 43 | | 1.2 47 | | | | 1.1 43 | | 1.2 47 | | | |
| Maximum pressure bar psi | 4.0 58 | | | | | | 4.0 58 | | | | | |

AZUD PREMIER PC AS

Discharge Equation
AZUD PREMIER $q = K \cdot h^x$

Pressure

| Model | q (l/h) - h (mca) | q (gph) - h (psi) | bar psi |
|-------------------------|---------------------|----------------------|------------------------|
| AZUD PREMIER PC AS 1L | $q = 0.9 \cdot h^0$ | $q = 0.24 \cdot h^0$ | 0.5 - 4.0 7 - 58 psi |
| AZUD PREMIER PC AS 1.6L | $q = 1.5 \cdot h^0$ | $q = 0.39 \cdot h^0$ | 0.5 - 4.0 7 - 58 psi |
| AZUD PREMIER PC AS 2L | $q = 1.9 \cdot h^0$ | $q = 0.50 \cdot h^0$ | 0.5 - 4.0 7 - 58 psi |
| AZUD PREMIER PC AS 2.3L | $q = 2.2 \cdot h^0$ | $q = 0.58 \cdot h^0$ | 0.5 - 4.0 7 - 58 psi |
| AZUD PREMIER PC AS 3L | $q = 2.9 \cdot h^0$ | $q = 0.77 \cdot h^0$ | 0.5 - 4.0 7 - 58 psi |
| AZUD PREMIER PC AS 3.5L | $q = 3.4 \cdot h^0$ | $q = 0.90 \cdot h^0$ | 0.5 - 4.0 7 - 58 psi |

AZUD PREMIER PC AS

| Nominal diameter (mm) (in) | Wall thickness (mm) (mil) | Standard length of coil (m) (feet) | Coils per container 20 ft | Coils per container HC 40 ft |
|----------------------------|---------------------------|------------------------------------|---------------------------|------------------------------|
| 16 0.630 | 0.90 35 | 500 1640 | 147 | 384 |
| 16 0.630 | 1.00 39 | 500 1640 | 147 | 384 |
| 16 0.630 | 1.10 43 | 500 1640 | 147 | 384 |
| 20 0.787 | 1.10 43 | 300 984 | 189 | 432 |

AZUD PREMIER PC AS RD

| Nominal diameter (mm) (in) | Wall thickness (mm) (mil) | Standard length of coil (m) (feet) | Coils per container 20 ft | Coils per container HC 40 ft |
|----------------------------|---------------------------|------------------------------------|---------------------------|------------------------------|
| 16 0.630 | 1.10 43 | 400 1312 | 147 | 384 |
| 16 0.630 | 1.20 47 | 400 1312 | 147 | 384 |
| 20 0.787 | 1.10 43 | 250 820 | 147 | 384 |
| 20 0.787 | 1.20 47 | 250 820 | 147 | 384 |

AZUD PREMIER PC AS

Dripline length*




Spacing between emitters*

| Model | 0.20 m 8" (m) (feet) | 0.25 m 10" (m) (feet) | 0.30 m 12" (m) (feet) | 0.33 m 13" (m) (feet) | 0.40 m 16" (m) (feet) | 0.50 m 20" (m) (feet) | 0.60 m 24" (m) (feet) | 0.75 m 30" (m) (feet) | 1.00 m 39" (m) (feet) | 1.25 m 49" (m) (feet) | 1.50 m 59" (m) (feet) | |
|-------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|
| 16 | 1L | 125 410 | 150 492 | 183 600 | 200 656 | 235 771 | 285 935 | 335 1099 | 400 1312 | 500 1640 | 600 1969 | 680 2231 |
| | 1.6L | 90 295 | 111 364 | 130 427 | 143 469 | 170 558 | 206 676 | 242 794 | 290 951 | 370 1214 | 440 1444 | 500 1640 |
| | 2L | 77 254 | 95 313 | 112 366 | 123 403 | 146 479 | 177 581 | 208 682 | 249 817 | 316 1037 | 377 1237 | 428 1406 |
| | 2.3L | 70 230 | 89 292 | 102 335 | 115 377 | 132 433 | 158 518 | 195 640 | 226 741 | 287 942 | 342 1122 | 394 1293 |
| | 3L | 58 190 | 76 249 | 85 279 | 98 322 | 111 364 | 135 443 | 160 525 | 189 620 | 240 787 | 286 938 | 330 1083 |
| 20 | 1L | 244 801 | 294 965 | 342 1122 | 370 1214 | 431 1414 | 500 1640 | 575 1886 | 690 2264 | 850 2789 | 975 3199 | 1100 3609 |
| | 1.6L | 174 571 | 210 689 | 244 801 | 269 883 | 309 1014 | 367 1204 | 425 1394 | 500 1640 | 600 1969 | 720 2362 | 810 2657 |
| | 2L | 149 490 | 180 591 | 209 687 | 231 757 | 265 870 | 315 1033 | 365 1197 | 428 1404 | 530 1739 | 620 2034 | 698 2288 |
| | 2.3L | 135 443 | 164 538 | 200 656 | 215 705 | 240 787 | 295 968 | 329 1079 | 390 1280 | 480 1575 | 570 1870 | 645 2116 |
| | 3L | 114 374 | 137 450 | 154 522 | 172 564 | 205 673 | 238 781 | 275 902 | 323 1060 | 405 1329 | 472 1549 | 535 1755 |
| 3.5L | 102 335 | 127 417 | 143 469 | 160 525 | 180 591 | 215 705 | 245 804 | 293 961 | 362 1188 | 420 1378 | 485 1591 | |

* Slope: 0%

* Inlet pressure: 3 bar/44 psi

It is recommended to design the installation with lateral lengths shorter than 800 meter / 2.625 feet. For other lateral lengths please, check AZIS, our software of hydraulic calculation in www.azud.com.

| | | | | |
|----------------|---|---|---|---|
| SAFETY FITTING |  |  |  |  |
| | STRAIGHT CONNECTOR | PVC OFFTAKE CONNECTOR WITH GROMMET | DRIPLINE VALVE | TEE - CONNECTOR |

WE ONLY RECOMMEND ACCESSORIES OFFICIALLY AUTHORISED BY AZUD, CHECK AZUD FIT RANGE

AZUD
The Culture of Water



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