

TYPHOON SERIES

FOR LONG TERM ROW
CROP IRRIGATION



TYPHOON 630 SERIES

- **8 mil** - seasonal or multi-seasonal use, surface or shallow burial (up to 8")
- **10 mil** - multi-seasonal use, surface or shallow burial (up to 10"), rocky or clod soils
- **13/15 mil** - sub-surface use where durability is needed with deep burial (up to 24")

TYPHOON 875 SERIES

- **8 mil** - seasonal or multi-seasonal use, surface or shallow burial (up to 8")
- **10 mil** - multi-seasonal use, surface or shallow burial (up to 10"), retrieval or reuse
- **13 mil** - sub-surface durable protection against rocks and insect intrusion with deep burial (up to 24")
- **15 mil** - multi-seasonal use subsurface (not recommended for surface use)

TYPHOON 990 SERIES

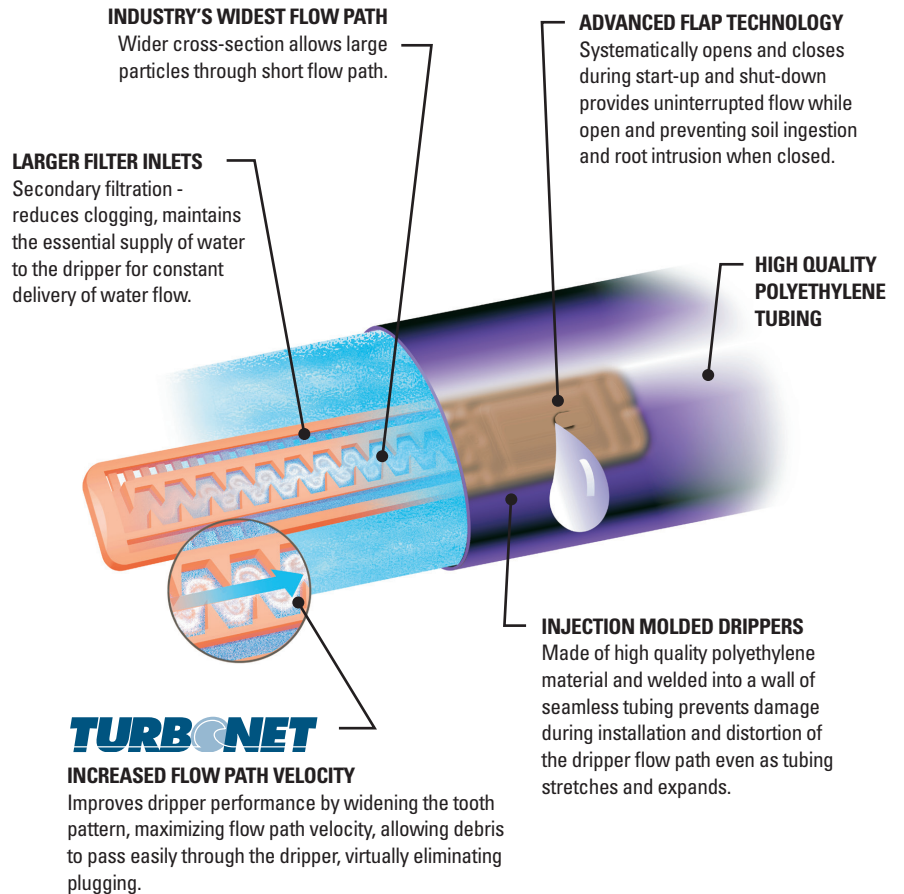
- **13/15 mil** - sub-surface durable protection against rocks and insect intrusion with deep burial (up to 24")

TYPHOON 1 1/8 SERIES

- **13/15 mil** - sub-surface durable protection against rocks and insect intrusion with deep burial (up to 24")

TYPHOON 1 3/8 SERIES

- **15 mil** - sub-surface durable protection against rocks and insect intrusion with deep burial (up to 24")



PRODUCT ADVANTAGES

- Seamless construction is stronger and more durable than comparable drip tape
- Fortifies against splitting or bursting under high pressures required for proper flushing
- Flap outlet protection impedes soil ingestion and root intrusion
- Dripperlines packaged with more feet per reel, the industry's longest, requiring fewer fittings and less time changing reels during installation
- Industry's lowest filtration requirement - 120 mesh
- Numerous inside diameter options to economically fit specific length of run requirements

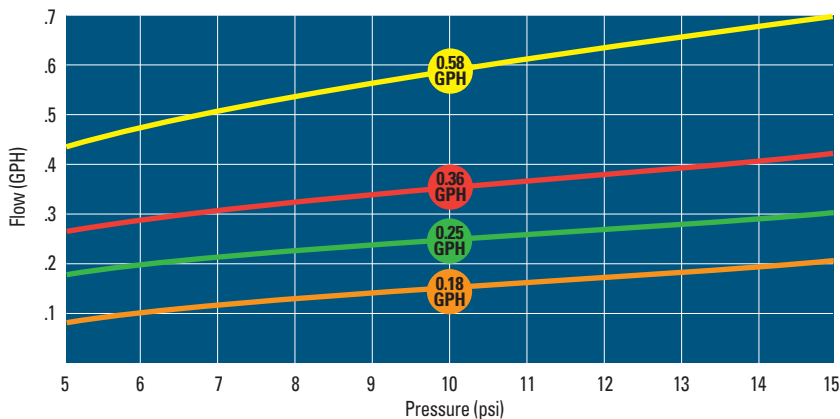
TECHNICAL INFORMATION

SPECIFICATIONS

| TYPHOON SERIES | WALL THICKNESS (MIL) | INSIDE DIAMETER | NOMINAL FLOW RATES GPH @ 10 psi |
|----------------|----------------------|-----------------|---------------------------------|
| 630 SERIES | 8, 10, 13, 15 | 0.636" | .18, .25, .36, .58 |
| 875 SERIES | 8, 10, 13, 15 | 0.875" | .18, .25, .36, .58 |
| 990 SERIES | 13, 15 | 0.990" | .18, .25, .36, .58 |
| 1 1/8 SERIES | 13, 15 | 1.125" | .18, .25, .36, .58 |
| 1 3/8 SERIES | 15 | 1.375" | .18, .25, .36, .58 |

Recommended filtration is 120 Mesh.

FLOW RATE VS. PRESSURE



MAXIMUM PRESSURE RANGES

| WALL THICKNESS | OPERATING (psi) | FLUSHING (psi) |
|---------------------|-----------------|----------------|
| 630 SERIES 8 MIL | 15 | 21.8 |
| 630 SERIES 10 MIL | 17 | 26.1 |
| 630 SERIES 13 MIL | 26 | 39.2 |
| 630 SERIES 15 MIL | 32 | 47.9 |
| 875 SERIES 8 MIL | 12 | 17.4 |
| 875 SERIES 10 MIL | 15 | 21.8 |
| 875 SERIES 13 MIL | 22 | 32.7 |
| 875 SERIES 15 MIL | 26 | 39.2 |
| 990 SERIES 13 MIL | 17 | 26.1 |
| 990 SERIES 15 MIL | 20 | 30.5 |
| 1 1/8 SERIES 13 MIL | 16 | 24.0 |
| 1 1/8 SERIES 15 MIL | 17 | 26.0 |
| 1 3/8 SERIES 15 MIL | 17 | 25.5 |

PACKAGING DATA

| WALL THICKNESS | REEL LENGTH | REEL WEIGHT | REELS PER PALLET | PALLET WEIGHT |
|---------------------|-------------|-------------|------------------|---------------|
| 630 SERIES 8 MIL | 8,000' | 54 LBS. | 16 | 909 LBS. |
| 630 SERIES 10 MIL | 6,500' | 56 LBS. | 16 | 941 LBS. |
| 630 SERIES 13 MIL | 5,000' | 53 LBS. | 16 | 893 LBS. |
| 630 SERIES 15 MIL | 4,100' | 54 LBS. | 16 | 909 LBS. |
| 875 SERIES 8 MIL | 6,000' | 56 LBS. | 16 | 941 LBS. |
| 875 SERIES 10 MIL | 5,500' | 65 LBS. | 16 | 1,085 LBS. |
| 875 SERIES 13 MIL | 4,000' | 64 LBS. | 16 | 1,069 LBS. |
| 875 SERIES 15 MIL | 3,900' | 70 LBS. | 12 | 885 LBS. |
| 990 SERIES 13 MIL | 3,000' | 55 LBS. | 16 | 925 LBS. |
| 990 SERIES 15 MIL | 2,750' | 56 LBS. | 16 | 941 LBS. |
| 1 1/8 SERIES 13 MIL | 2,800' | 58 LBS. | 16 | 973 LBS. |
| 1 1/8 SERIES 15 MIL | 2,500' | 64 LBS. | 16 | 1,069 LBS. |
| 1 3/8 SERIES 15 MIL | 2,700' | 77 LBS. | 12 | 969 LBS. |

PACKAGING DATA FOR 630, 875, 990 and 1 3/8 SERIES: Uses 22" x 11" cardboard reels with 1 1/2" hub hole.

PACKAGING DATA FOR 1 1/8 SERIES: Uses 22" x 9.6" cardboard reels with 1 1/2" hub.

Weights are approximate. Pallet weight includes 45 lbs. for weight of pallet. Reels per pallet and pallet weights listed are for standard reel lengths only. Length of reels and reels per pallet may change for custom reel lengths.



LENGTH OF RUN CHARTS

TYPHOON 630 SERIES LENGTH OF RUN @ 0% SLOPE

0.18 GPH DRIPPER (0.18 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.276 | 534 | 646 | 736 |
| 14" | 0.237 | 590 | 718 | 817 |
| 16" | 0.207 | 650 | 786 | 895 |
| 18" | 0.184 | 703 | 851 | 968 |
| 20" | 0.165 | 754 | 913 | 1,039 |
| 24" | 0.138 | 851 | 1,031 | 1,173 |

0.25 GPH DRIPPER (0.25 @ 10 psi)

| | | | | |
|-----|-------|-----|-----|-----|
| 12" | 0.379 | 436 | 527 | 600 |
| 14" | 0.325 | 485 | 586 | 667 |
| 16" | 0.284 | 530 | 641 | 730 |
| 18" | 0.253 | 574 | 694 | 790 |
| 20" | 0.227 | 616 | 744 | 848 |
| 24" | 0.189 | 695 | 841 | 957 |

0.36 GPH DRIPPER (0.36 @ 10 psi)

| | | | | |
|-----|-------|-----|-----|-----|
| 12" | 0.563 | 332 | 402 | 459 |
| 14" | 0.482 | 369 | 447 | 510 |
| 16" | 0.422 | 403 | 490 | 558 |
| 18" | 0.375 | 437 | 530 | 604 |
| 20" | 0.337 | 469 | 569 | 649 |
| 24" | 0.281 | 529 | 643 | 733 |

0.58 GPH DRIPPER (0.58 @ 10 psi)

| | | | | |
|-----|-------|-----|-----|-----|
| 12" | 0.921 | 242 | 293 | 334 |
| 14" | 0.788 | 269 | 326 | 372 |
| 16" | 0.690 | 294 | 358 | 407 |
| 18" | 0.613 | 319 | 386 | 442 |
| 20" | 0.551 | 343 | 416 | 473 |
| 24" | 0.460 | 387 | 469 | 535 |

TYPHOON 875 SERIES LENGTH OF RUN @ 0% SLOPE

0.18 GPH DRIPPER (0.18 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.276 | 950 | 1,150 | 1,309 |
| 14" | 0.236 | 1,052 | 1,273 | 1,450 |
| 16" | 0.207 | 1,147 | 1,390 | 1,582 |
| 18" | 0.184 | 1,240 | 1,501 | 1,708 |
| 20" | 0.165 | 1,328 | 1,608 | 1,829 |
| 24" | 0.138 | 1,495 | 1,809 | 2,059 |

0.25 GPH DRIPPER (0.25 @ 10 psi)

| | | | | |
|-----|-------|-------|-------|-------|
| 12" | 0.380 | 775 | 938 | 1,068 |
| 14" | 0.325 | 858 | 1,039 | 1,182 |
| 16" | 0.284 | 937 | 1,134 | 1,291 |
| 18" | 0.253 | 1,012 | 1,225 | 1,394 |
| 20" | 0.228 | 1,083 | 1,311 | 1,493 |
| 24" | 0.190 | 1,219 | 1,477 | 1,681 |

0.36 GPH DRIPPER (0.36 @ 10 psi)

| | | | | |
|-----|-------|-----|-------|-------|
| 12" | 0.563 | 591 | 717 | 818 |
| 14" | 0.482 | 654 | 794 | 906 |
| 16" | 0.422 | 714 | 867 | 989 |
| 18" | 0.375 | 772 | 937 | 1,067 |
| 20" | 0.338 | 826 | 1,003 | 1,144 |
| 24" | 0.277 | 929 | 1,129 | 1,287 |

0.58 GPH DRIPPER (0.58 @ 10 psi)

| | | | | |
|-----|-------|-----|-----|-----|
| 12" | 0.922 | 431 | 523 | 597 |
| 14" | 0.789 | 478 | 580 | 661 |
| 16" | 0.690 | 522 | 633 | 722 |
| 18" | 0.614 | 563 | 683 | 779 |
| 20" | 0.543 | 603 | 733 | 836 |
| 24" | 0.453 | 677 | 825 | 941 |

TYPHOON 990 SERIES - LENGTH OF RUN @ 0% SLOPE

0.18 GPH DRIPPER (0.18 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.276 | 1,172 | 1,419 | 1,615 |
| 14" | 0.237 | 1,298 | 1,571 | 1,789 |
| 16" | 0.207 | 1,417 | 1,715 | 1,953 |
| 18" | 0.184 | 1,531 | 1,853 | 2,110 |
| 20" | 0.166 | 1,639 | 1,986 | 2,259 |
| 24" | 0.138 | 1,847 | 2,235 | 2,545 |

0.36 GPH DRIPPER (0.36 @ 10 psi)

| | | | | |
|-----|-------|-------|-------|-------|
| 12" | 0.563 | 729 | 885 | 1,008 |
| 14" | 0.482 | 808 | 981 | 1,117 |
| 16" | 0.422 | 882 | 1,070 | 1,221 |
| 18" | 0.375 | 952 | 1,156 | 1,318 |
| 20" | 0.338 | 1,021 | 1,239 | 1,413 |
| 24" | 0.281 | 1,149 | 1,395 | 1,591 |

0.25 GPH DRIPPER (0.25 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.362 | 985 | 1,195 | 1,357 |
| 14" | 0.311 | 1,091 | 1,321 | 1,503 |
| 16" | 0.272 | 1,191 | 1,442 | 1,642 |
| 18" | 0.242 | 1,286 | 1,558 | 1,774 |
| 20" | 0.217 | 1,379 | 1,669 | 1,899 |
| 24" | 0.181 | 1,553 | 1,879 | 2,139 |

0.58 GPH DRIPPER (0.58 @ 10 psi)

| | | | | |
|-----|-------|-----|-------|-------|
| 12" | 0.922 | 532 | 646 | 736 |
| 14" | 0.789 | 590 | 716 | 816 |
| 16" | 0.691 | 643 | 782 | 891 |
| 18" | 0.614 | 695 | 844 | 962 |
| 20" | 0.544 | 744 | 904 | 1,031 |
| 24" | 0.460 | 839 | 1,019 | 1,161 |

LENGTH OF RUN CHARTS

TYPHOON 1 1/8 SERIES LENGTH OF RUN @ 0% SLOPE

0.18 GPH DRIPPER (0.18 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.273 | 1,452 | 1,763 | 2,010 |
| 14" | 0.234 | 1,607 | 1,951 | 2,224 |
| 16" | 0.204 | 1,753 | 2,129 | 2,426 |
| 18" | 0.182 | 1,892 | 2,299 | 2,620 |
| 20" | 0.164 | 2,026 | 2,461 | 2,806 |
| 24" | 0.136 | 2,281 | 2,769 | 3,157 |
| 27" | 0.113 | 2,624 | 3,174 | 3,615 |

0.25 GPH DRIPPER (0.25 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.376 | 1,182 | 1,436 | 1,637 |
| 14" | 0.322 | 1,308 | 1,588 | 1,811 |
| 16" | 0.282 | 1,427 | 1,734 | 1,977 |
| 18" | 0.247 | 1,538 | 1,871 | 2,134 |
| 20" | 0.226 | 1,651 | 2,004 | 2,286 |
| 24" | 0.188 | 1,857 | 2,255 | 2,573 |
| 27" | 0.156 | 2,137 | 2,587 | 2,945 |

0.36 GPH DRIPPER (0.36 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.547 | 931 | 1,131 | 1,289 |
| 14" | 0.468 | 1,031 | 1,251 | 1,426 |
| 16" | 0.410 | 1,125 | 1,366 | 1,557 |
| 18" | 0.364 | 1,214 | 1,474 | 1,681 |
| 20" | 0.328 | 1,301 | 1,579 | 1,801 |
| 24" | 0.273 | 1,463 | 1,777 | 2,027 |
| 27" | 0.227 | 1,682 | 2,038 | 2,319 |

0.58 GPH DRIPPER (0.58 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.855 | 700 | 850 | 969 |
| 14" | 0.732 | 775 | 941 | 1,073 |
| 16" | 0.641 | 846 | 1,027 | 1,171 |
| 18" | 0.561 | 911 | 1,109 | 1,265 |
| 20" | 0.505 | 976 | 1,188 | 1,354 |
| 24" | 0.427 | 1,101 | 1,337 | 1,525 |
| 27" | 0.354 | 1,266 | 1,534 | 1,745 |

TYPHOON 1 3/8 SERIES LENGTH OF RUN @ 0% SLOPE

0.18 GPH DRIPPER (0.18 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.276 | 2,091 | 2,533 | 2,884 |
| 14" | 0.237 | 2,312 | 2,799 | 3,188 |
| 16" | 0.207 | 2,521 | 3,051 | 3,475 |
| 18" | 0.184 | 2,720 | 3,293 | 3,749 |
| 20" | 0.166 | 2,911 | 3,524 | 4,014 |
| 24" | 0.138 | 3,273 | 3,963 | 4,513 |

0.25 GPH DRIPPER (0.25 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.362 | 1,758 | 2,129 | 2,424 |
| 14" | 0.311 | 1,944 | 2,354 | 2,680 |
| 16" | 0.272 | 2,119 | 2,566 | 2,922 |
| 18" | 0.242 | 2,287 | 2,770 | 3,154 |
| 20" | 0.217 | 2,448 | 2,964 | 3,374 |
| 24" | 0.181 | 2,753 | 3,333 | 3,795 |

0.36 GPH DRIPPER (0.36 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.563 | 1,271 | 1,543 | 1,758 |
| 14" | 0.482 | 1,410 | 1,711 | 1,951 |
| 16" | 0.422 | 1,542 | 1,871 | 2,133 |
| 18" | 0.375 | 1,667 | 2,023 | 2,306 |
| 20" | 0.338 | 1,788 | 2,169 | 2,473 |
| 24" | 0.281 | 2,015 | 2,445 | 2,787 |

0.58 GPH DRIPPER (0.58 @ 10 psi)

| DRIPPER SPACING | GPM/100 FT @ 94% EU | EMISSION UNIFORMITY (EU) | | |
|-----------------|---------------------|--------------------------|-------|-------|
| | | 94% | 92% | 90% |
| 12" | 0.922 | 950 | 1,154 | 1,316 |
| 14" | 0.778 | 1,049 | 1,277 | 1,455 |
| 16" | 0.681 | 1,143 | 1,391 | 1,587 |
| 18" | 0.605 | 1,234 | 1,502 | 1,712 |
| 20" | 0.553 | 1,324 | 1,608 | 1,833 |
| 24" | 0.454 | 1,485 | 1,807 | 2,061 |



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