

UPDATED 8/5/09

TECHNICAL DATA FOR PLASTRO EMITTERS

Update: 1/1/02

INTEGRAL DRIPLINE

| | FLOW | DIA. NOM. | DIA. INT. | DRIP. COEF. | DRIP EXP. | KD | DH=7.5% | | DH=10% | | WCADI CAT. | Min. Pressure | Max. Pressure | % FLOW TO BE | color |
|------------------------|----------------------|--------------|--------------|---|--------------|-------|---------|------|--------|------|---------------|------------------|------------------|-----------------|-------|
| | | | | | | | Pmin | Pmax | Pmin | Pmax | | | | | |
| | | | | | | | | | | | | | | ADDED | |
| HYDRO P.C. | | | | | | | | | | | | | | | |
| 16-/35/40/45 | 1.20 | 16 | 13.8 | 1.2 | 0 | 0.85 | | | | | 26621612 | 6.0 | | 5.0% | |
| | 1.60 | 16 | 13.8 | 1.6 | 0 | 0.85 | | | | | 26621616 | 7.5 | | 5.0% | |
| | 2.20 | 16 | 13.8 | 2.2 | 0 | 0.85 | | | | | 26621622 | 7.5 | | 5.0% | |
| | 3.00 | 16 | 13.8 | 3.0 | 0 | 0.85 | | | | | 26621630 | 7.5 | | 5.0% | |
| | 3.60 | 16 | 13.8 | 3.6 | 0 | 0.85 | | | | | 26621636 | 7.5 | | 5.0% | |
| 17-/35/40/45 | 1.20 | 17.8 | 15.3 | 1.2 | 0 | 0.6 | | | | | 26621712 | 6.0 | | 5.0% | |
| | 1.60 | 17.8 | 15.3 | 1.6 | 0 | 0.6 | | | | | 26621716 | 7.5 | | 5.0% | |
| | 2.20 | 17.8 | 15.3 | 2.2 | 0 | 0.6 | | | | | 26621722 | 7.5 | | 5.0% | |
| | 3.00 | 17.8 | 15.3 | 3.0 | 0 | 0.6 | | | | | 26621703 | 7.5 | | 5.0% | |
| | 3.60 | 17.8 | 15.3 | 3.6 | 0 | 0.6 | | | | | 26621736 | 7.5 | | 5.0% | |
| 20-/35/40/45 | 1.20 | 20 | 17.6 | 1.2 | 0 | 0.45 | | | | | 26622012 | 7.5 | | 5.0% | |
| | 1.60 | 20 | 17.6 | 1.6 | 0 | 0.45 | | | | | 26622016 | 7.5 | | 5.0% | |
| | 2.20 | 20 | 17.6 | 2.3 | 0 | 0.45 | | | | | 26622022 | 7.5 | | 5.0% | |
| | 3.00 | 20 | 17.6 | 3.0 | 0 | 0.45 | | | | | 26622003 | 7.5 | | 5.0% | |
| | 3.60 | 20 | 17.6 | 3.4 | 0 | 0.45 | | | | | 26622036 | 7.5 | | 5.0% | |
| HYDRO P.C. N.D. | | | | | | | | | | | | | | | |
| 16-/35/40/45 | 1.35 | 16 | 13.8 | 1.35 | 0 | 0.85 | | | | | 26631612 | 6 | | 5.0% | |
| | 1.75 | 16 | 13.8 | 1.75 | 0 | 0.85 | | | | | 26631616 | 7.5 | | 5.0% | |
| | 2.35 | 16 | 13.8 | 2.35 | 0 | 0.85 | | | | | 26631622 | 7.5 | | 5.0% | |
| | 3.75 | 16 | 13.8 | 3.75 | 0 | 0.85 | | | | | 26631636 | 7.5 | | 5.0% | |
| 17-/35/40/45 | 1.35 | 17.8 | 15.3 | 1.35 | 0 | 0.6 | | | | | 26631712 | 6.0 | | 5.0% | |
| | 1.75 | 17.8 | 15.3 | 1.75 | 0 | 0.6 | | | | | 26631716 | 7.5 | | 5.0% | |
| | 2.35 | 17.8 | 15.3 | 2.35 | 0 | 0.6 | | | | | 26631722 | 7.5 | | 5.0% | |
| | 3.15 | 17.8 | 15.3 | 3.15 | 0 | 0.6 | | | | | 26631703 | 7.5 | | 5.0% | |
| | 3.75 | 17.8 | 15.3 | 3.75 | 0 | 0.6 | | | | | 26631736 | 7.5 | | 5.0% | |
| 20-/35/40/45 | 1.35 | 20 | 17.6 | 1.35 | 0 | 0.450 | | | | | 26632012 | 7.5 | | 5.0% | |
| | 1.75 | 20 | 17.6 | 1.75 | 0 | 0.450 | | | | | 26632016 | 7.5 | | 5.0% | |
| | 2.35 | 20 | 17.6 | 2.35 | 0 | 0.450 | | | | | 26632022 | 7.5 | | 5.0% | |
| | 3.15 | 20 | 17.6 | 3.15 | 0 | 0.45 | | | | | 26632003 | 7.5 | | 5.0% | |
| | 3.60 | 20 | 17.6 | 3.60 | 0 | 0.450 | | | | | 26632036 | 7.5 | | 5.0% | |
| | regular and no drain | | | kd equation { .0267d^2-0.9436d+8.7868 } | | | | | | | | | | | |

UPDATED 8/5/09

| | FLOW | DIA. NOM. | DIA. INT. | DRIP. COEF. | DRIP EXP. | KD | DH=7.5% | | DH=10% | | WCADI CAT. | Min. Pressure | Max. Pressure | % FLOW TO BE ADDED | color |
|--|------|--------------|--------------|----------------|--------------|-------|---------|------|--------|------|---------------|------------------|------------------|--------------------------|--------|
| | | | | | | | Pmin | Pmax | Pmin | Pmax | | | | | |
| HYDRODRIP II | | | | | | | | | | | | | | | |
| 16/18/1.8 | 1.74 | 16 | 15.2 | 0.5653 | 0.4888 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27161818 | | 15 | | Green |
| 16/25/1.8 | 1.83 | 16 | 15.2 | 0.5701 | 0.5078 | 0.150 | 9.2 | 10.8 | 9.0 | 11.0 | 27162518 | | 25 | | Green |
| 16/35/1.8 | 1.88 | 16 | 15.2 | 0.5951 | 0.4998 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27163518 | | 30 | | Green |
| 16/45/1.8 | 1.88 | 16 | 15.2 | 0.5951 | 0.4998 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27164518 | | 35 | | Green |
| 16/18/2 | 1.96 | 16 | 15.2 | 0.6275 | 0.4942 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27161820 | | 15 | | Green |
| 16/25/2 | 2.04 | 16 | 15.2 | 0.6381 | 0.5057 | 0.150 | 9.2 | 10.8 | 9.0 | 11.0 | 27162520 | | 25 | | Green |
| 16/35/2 | 2.08 | 16 | 15.2 | 0.6638 | 0.4980 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27163520 | | 30 | | Green |
| 16/45/2 | 2.08 | 16 | 15.2 | 0.6638 | 0.4980 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27164520 | | 35 | | Green |
| 16/18/2.3 | 2.33 | 16 | 15.2 | 0.7620 | 0.4867 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27161823 | | 15 | | Yellow |
| 16/25/2.3 | 2.42 | 16 | 15.2 | 0.7747 | 0.4970 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27162520 | | 25 | | Yellow |
| 16/35/2.3 | 2.59 | 16 | 15.2 | 0.8228 | 0.4993 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27163520 | | 30 | | Yellow |
| 16/45/2.3 | 2.59 | 16 | 15.2 | 0.8228 | 0.4993 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27164520 | | 35 | | Yellow |
| 16/18/3.6 | 3.67 | 16 | 15.2 | 1.2155 | 0.4809 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27161836 | | 15 | | White |
| 16/25/3.6 | 3.75 | 16 | 15.2 | 1.1972 | 0.4956 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27163536 | | 25 | | White |
| 16/35/3.6 | 3.82 | 16 | 15.2 | 1.2543 | 0.4858 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27163536 | | 30 | | White |
| 16/45/3.6 | 3.82 | 16 | 15.2 | 1.2543 | 0.4858 | 0.150 | 9.2 | 10.8 | 8.9 | 11.1 | 27164536 | | 35 | | White |
| 20/18/1.8 | 1.72 | 20 | 17.6 | 0.5415 | 0.4993 | 0.100 | 9.2 | 10.8 | 8.9 | 11.1 | 27201818 | | 15 | | Green |
| 20/25/1.8 | 1.96 | 20 | 17.6 | 0.5889 | 0.5221 | 0.100 | 9.3 | 10.7 | 9.0 | 11.0 | 27202518 | | 25 | | Green |
| 20/35/1.8 | 1.93 | 20 | 17.6 | 0.5850 | 0.5191 | 0.100 | 9.3 | 10.7 | 9.0 | 11.0 | 27203518 | | 30 | | Green |
| 20/45/1.8 | 1.93 | 20 | 17.6 | 0.5850 | 0.5191 | 0.100 | 9.3 | 10.7 | 9.0 | 11.0 | 27204518 | | 35 | | Green |
| 20/18/2 | 1.94 | 20 | 17.6 | 0.6174 | 0.4952 | 0.100 | 9.2 | 10.8 | 8.9 | 11.1 | 27201820 | | 15 | | Green |
| 20/25/2 | 2.16 | 20 | 17.6 | 0.6653 | 0.5114 | 0.100 | 9.2 | 10.8 | 9.0 | 11.0 | 27202520 | | 25 | | Green |
| 20/35/2 | 2.13 | 20 | 17.6 | 0.6640 | 0.5044 | 0.100 | 9.2 | 10.8 | 9.0 | 11.0 | 27203520 | | 30 | | Green |
| 20/45/2 | 2.13 | 20 | 17.6 | 0.6640 | 0.5044 | 0.100 | 9.2 | 10.8 | 9.0 | 11.0 | 27204520 | | 35 | | Green |
| 20/18/2.3 | 2.31 | 20 | 17.6 | 0.7708 | 0.4787 | 0.100 | 9.2 | 10.8 | 8.9 | 11.1 | 27201823 | | 15 | | Yellow |
| 20/25/2.3 | 2.7 | 20 | 17.6 | 0.7797 | 0.5280 | 0.100 | 9.3 | 10.7 | 9.0 | 11.0 | 27202523 | | 25 | | Yellow |
| 20/35/2.3 | 2.66 | 20 | 17.6 | 0.8119 | 0.5140 | 0.100 | 9.2 | 10.8 | 9.0 | 11.0 | 27203523 | | 30 | | Yellow |
| 20/45/2.3 | 2.66 | 20 | 17.6 | 0.8119 | 0.5140 | 0.100 | 9.2 | 10.8 | 9.0 | 11.0 | 27204523 | | 35 | | Yellow |
| 20/18/3.6 | 3.6 | 20 | 17.6 | 1.1546 | 0.4929 | 0.100 | 9.2 | 10.8 | 8.9 | 11.1 | 27201836 | | 15 | | White |
| 20/25/3.6 | 3.98 | 20 | 17.6 | 1.2074 | 0.5187 | 0.100 | 9.3 | 10.7 | 9.0 | 11.0 | 27202536 | | 25 | | White |
| 20/35/3.6 | 4.07 | 20 | 17.6 | 1.2363 | 0.5168 | 0.100 | 9.2 | 10.8 | 9.0 | 11.0 | 27203536 | | 30 | | White |
| 20/45/3.6 | 4.07 | 20 | 17.6 | 1.2363 | 0.5168 | 0.100 | 9.2 | 10.8 | 9.0 | 11.0 | 27204536 | | 35 | | White |
| 25/18/1.8 | 1.74 | 25 | 22.2 | 0.5653 | 0.4888 | 0.075 | 9.2 | 10.8 | 8.9 | 11.1 | 27251818 | | 12 | | Green |
| 25/35/1.8 | 1.77 | 25 | 22.2 | 0.5330 | 0.5219 | 0.075 | 9.3 | 10.7 | 9.0 | 11.0 | 27253518 | | 25 | | Green |
| 25/18/2 | 1.96 | 25 | 22.2 | 0.6275 | 0.4942 | 0.075 | 9.2 | 10.8 | 8.9 | 11.1 | 27251820 | | 12 | | Green |
| 25/35/2 | 1.84 | 25 | 22.2 | 0.5797 | 0.4993 | 0.075 | 9.2 | 10.8 | 8.9 | 11.1 | 27253520 | | 25 | | Green |
| 25/18/2.3 | 2.33 | 25 | 22.2 | 0.7620 | 0.4867 | 0.075 | 9.2 | 10.8 | 8.9 | 11.1 | 27251823 | | 12 | | Yellow |
| 25/35/2.3 | 2.35 | 25 | 22.2 | 0.7388 | 0.5033 | 0.075 | 9.2 | 10.8 | 9.0 | 11.0 | 27253523 | | 25 | | Yellow |
| 25/18/3.6 | 3.67 | 25 | 22.2 | 1.2155 | 0.4809 | 0.075 | 9.2 | 10.8 | 8.9 | 11.1 | 27251836 | | 12 | | White |
| 25/35/3.6 | 3.53 | 25 | 22.2 | 1.0972 | 0.5064 | 0.075 | 9.2 | 10.8 | 9.0 | 11.0 | 27253536 | | 25 | | White |
| kd equation (0.004d ² -0.1628d+1.7051) | | | | | | | | | | | | | | | |
| HYDRO LITE | | | | | | | | | | | | | | | |
| 16/0.6 | 0.52 | 16/8 | 16.0 | 0.1580 | 0.5200 | 0.065 | 9.3 | 10.7 | 9.0 | 11.0 | 26640006 | | 12 | | |
| 16/1 | 0.85 | 16/8 | 16.0 | 0.2634 | 0.5050 | 0.065 | 9.2 | 10.8 | 9.0 | 11.0 | 26640010 | | 12 | | |

UPDATED 8/5/09

| | FLOW | DIA. | DIA. | DRIP. | DRIP. | KD | DH=7.5% | | DH=10% | | WCADI | Min. | | | color |
|-----------------|------|------|------|--------|--------|-------|---------|------|--------|------|----------|----------|--|--|--------|
| | | NOM. | INT. | COEF. | EXP. | | Pmin | Pmax | Pmin | Pmax | CAT. | Pressure | | | |
| HYDROGOL | | | | | | | | | | | | | | | |
| 12/25/1 | 1.0 | 12 | 10.4 | 0.3297 | 0.4728 | 0.850 | 9.2 | 10.8 | 8.9 | 11.1 | 26122501 | | | | grey |
| 12/25/2 | 2.2 | 12 | 10.4 | 0.7430 | 0.4711 | 0.850 | 9.2 | 10.8 | 8.9 | 11.1 | 26122502 | | | | green |
| 12/25/3 | 3.0 | 12 | 10.4 | 1.0504 | 0.4581 | 0.850 | 9.1 | 10.9 | 8.8 | 11.2 | 26122503 | | | | red |
| 12/35/1 | 0.9 | 12 | 10.4 | 0.3016 | 0.4909 | 0.850 | 9.2 | 10.8 | 8.9 | 11.1 | 26123501 | | | | grey |
| 12/35/2 | 2.2 | 12 | 10.4 | 0.7134 | 0.4799 | 0.850 | 9.2 | 10.8 | 8.9 | 11.1 | 26123502 | | | | green |
| 12/35/3 | 2.9 | 12 | 10.4 | 0.9550 | 0.4862 | 0.850 | 9.2 | 10.8 | 8.9 | 11.1 | 26123503 | | | | red |
| 12/40/1 | 0.9 | 12 | 10.4 | 0.2830 | 0.5020 | 0.850 | 9.2 | 10.8 | 9.0 | 11.0 | 26124001 | | | | grey |
| 12/40/2 | 2.1 | 12 | 10.4 | 0.6680 | 0.4910 | 0.850 | 9.2 | 10.8 | 8.9 | 11.1 | 26124002 | | | | green |
| 12/40/3 | 2.8 | 12 | 10.4 | 0.9190 | 0.4880 | 0.850 | 9.2 | 10.8 | 8.9 | 11.1 | 26124003 | | | | red |
| 16/25/1 | 1.2 | 16 | 13.8 | 0.3936 | 0.4911 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26162501 | | | | grey |
| 16/25/1.6 | 1.9 | 16 | 13.8 | 0.6382 | 0.4737 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26162516 | | | | violet |
| 16/25/2 | 2.2 | 16 | 13.8 | 0.7181 | 0.4944 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26162502 | | | | green |
| 16/25/4 | 4.4 | 16 | 13.8 | 1.4289 | 0.4880 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26162504 | | | | white |
| 16/35/1 | 1.1 | 16 | 13.8 | 0.3511 | 0.4824 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26163501 | | | | grey |
| 16/35/1.6 | 1.8 | 16 | 13.8 | 0.5696 | 0.4944 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26163516 | | | | violet |
| 16/35/2 | 2.2 | 16 | 13.8 | 0.6782 | 0.5098 | 0.450 | 9.2 | 10.8 | 9.0 | 11.0 | 26163502 | | | | green |
| 16/35/4 | 4.1 | 16 | 13.8 | 1.2990 | 0.4990 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26163504 | | | | white |
| 16/35/10 | 10.7 | 16 | 13.8 | 3.3238 | 0.5080 | 0.450 | 9.2 | 10.8 | 9.0 | 11.0 | 26163510 | | | | blue |
| 16/40/1 | 1.0 | 16 | 13.8 | 0.3296 | 0.4841 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26164001 | | | | grey |
| 16/40/1.6 | 1.6 | 16 | 13.8 | 0.5199 | 0.4890 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26164016 | | | | violet |
| 16/40/2 | 2.1 | 16 | 13.8 | 0.6725 | 0.4864 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26164002 | | | | green |
| 16/40/4 | 3.9 | 16 | 13.8 | 1.2821 | 0.4840 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26164004 | | | | white |
| 16/40/10 | 10.5 | 16 | 13.8 | 3.3567 | 0.4929 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26164010 | | | | blue |
| 16/45/1 | 1.0 | 16 | 13.8 | 0.3180 | 0.4920 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26164501 | | | | grey |
| 16/45/1.6 | 1.5 | 16 | 13.8 | 0.4982 | 0.4838 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26164516 | | | | violet |
| 16/45/2 | 2.0 | 16 | 13.8 | 0.6950 | 0.4611 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26164502 | | | | green |
| 16/45/4 | 3.8 | 16 | 13.8 | 1.3040 | 0.4623 | 0.450 | 9.2 | 10.8 | 8.9 | 11.1 | 26164504 | | | | white |
| 16/45/10 | 9.5 | 16 | 13.8 | 2.9723 | 0.5040 | 0.450 | 9.2 | 10.8 | 9.0 | 11.0 | 26164510 | | | | blue |
| 20/35/2 | 2.3 | 20 | 17.6 | 0.7039 | 0.5142 | 0.250 | 9.2 | 10.8 | 9.0 | 11.0 | 26203502 | | | | green |
| 20/35/2.5 | 2.8 | 20 | 17.6 | 0.8475 | 0.5097 | 0.250 | 9.2 | 10.8 | 9.0 | 11.0 | 26203525 | | | | yellow |
| 20/35/3 | 3.2 | 20 | 17.6 | 1.0266 | 0.4979 | 0.250 | 9.2 | 10.8 | 8.9 | 11.1 | 26203503 | | | | red |
| 20/35/4 | 4.7 | 20 | 17.6 | 1.4760 | 0.5028 | 0.250 | 9.2 | 10.8 | 9.0 | 11.0 | 26203504 | | | | white |
| 20/40/2 | 2.2 | 20 | 17.6 | 0.6881 | 0.5118 | 0.250 | 9.2 | 10.8 | 9.0 | 11.0 | 26204002 | | | | green |
| 20/40/2.5 | 2.6 | 20 | 17.6 | 0.7972 | 0.5093 | 0.250 | 9.2 | 10.8 | 9.0 | 11.0 | 26204025 | | | | yellow |
| 20/40/3 | 3.1 | 20 | 17.6 | 0.9938 | 0.4950 | 0.250 | 9.2 | 10.8 | 8.9 | 11.1 | 26204003 | | | | red |
| 20/40/4 | 4.5 | 20 | 17.6 | 1.3492 | 0.5175 | 0.250 | 9.3 | 10.7 | 9.0 | 11.0 | 26204004 | | | | white |
| 20/40/8 | 8 | | | | | | | | | | 26204008 | | | | blue |
| 20/45/2 | 2.2 | 20 | 17.6 | 0.6953 | 0.4906 | 0.250 | 9.2 | 10.8 | 8.9 | 11.1 | 26204502 | | | | green |
| 20/45/2.5 | 2.5 | | | | | | | | | | 26204525 | | | | yellow |
| 20/45/3 | 3.0 | 20 | 17.6 | 0.9718 | 0.4911 | 0.250 | 9.2 | 10.8 | 8.9 | 11.1 | 26204503 | | | | red |
| 20/45/4 | 4.4 | | | | | | | | | | 26204504 | | | | white |

kd equation 197.7*d^-2.3241

NOT YET AVAILABLE (The data is not final)

UPDATED 8/5/09

ON LINE DRIPPERS

| | FLOW | DRIP. COEF. | DRIP EXP. | DH=7.5% | | DH=10% | | WCADI CAT. | Nominal Pressure | color |
|-----------------|------|-------------|-----------|---------|------|--------|------|------------|------------------|-------|
| | | | | Pmin | Pmax | Pmin | Pmax | | | |
| Min. Pressure | | | | | | | | | | |
| SUPERTIF | | | | | | | | | | |
| 2 | 2.2 | | 2.2 | 0 | | | | 32400002 | 6 | |
| 4 | 3.85 | | 3.85 | 0 | | | | 32400004 | 6 | |
| 8 | 7.8 | | 7.8 | 0 | | | | 32400008 | 6 | |
| 12 | 12 | | 12 | 0 | | | | 32400012 | 6 | |

kd equation $25.08 \cdot 2.72^{(-.2817 \cdot id)}$

| | | | | | | | | | | |
|----------------------|------|--|------|---|--|--|--|----------|---|--|
| SUPERTIF N.D. | | | | | | | | | | |
| 2 | 2.2 | | 2.2 | 0 | | | | 32430002 | 6 | |
| 4 | 3.85 | | 3.85 | 0 | | | | 32430004 | 6 | |
| 8 | 7.8 | | 7.8 | 0 | | | | 32430008 | 6 | |
| 12 | 12 | | 12 | 0 | | | | 32430012 | 6 | |

| | | | | | | | | | | |
|-----------------------|-----|--|-----|---|--|--|--|----------|---|--|
| SUPERTIF N.D.H | | | | | | | | | | |
| 3 | 3.1 | | 3.1 | 0 | | | | 32450002 | 9 | |
| 5 | 5.1 | | 5.1 | 0 | | | | 32450005 | 9 | |
| 8 | 8 | | 8 | 0 | | | | 32450008 | 9 | |
| 12 | 11 | | 11 | 0 | | | | 32450012 | 9 | |

| | | | | | | | | | | | |
|----------------|------|--|-------|-------|-----|------|-----|------|----------|----|-------|
| TUFFTIF | | | | | | | | | | | |
| 2 | 2.1 | | 0.615 | 0.539 | 9.3 | 10.7 | 9.0 | 11.0 | 32100002 | 10 | brown |
| 4 | 4.1 | | 1.364 | 0.478 | 9.2 | 10.8 | 8.9 | 11.1 | 32100004 | 10 | black |
| 8 | 8.0 | | 2.726 | 0.465 | 9.2 | 10.8 | 8.9 | 11.1 | 32100008 | 10 | green |
| 12 | 11.3 | | 4.333 | 0.415 | 9.0 | 11.0 | 8.7 | 11.3 | 32100012 | 10 | red |

kd equation $25.08 \cdot 2.72^{(-.2817 \cdot id)}$

| | | | | | | | | | | | |
|--------------|------|--|-------|-------|-----|------|-----|------|----------|----|--------|
| O-TIF | | | | | | | | | | | |
| 2 | 2 | | 0.634 | 0.484 | 9.2 | 10.8 | 8.9 | 11.1 | 32400002 | 10 | brown |
| 4 | 4 | | 1.394 | 0.460 | 9.1 | 10.9 | 8.8 | 11.2 | 32400004 | 10 | black |
| 8 | 7.7 | | 2.530 | 0.480 | 9.2 | 10.8 | 8.9 | 11.1 | 32400008 | 10 | green |
| 16 | 16.7 | | 5.100 | 0.514 | 9.2 | 10.8 | 9.0 | 11.0 | 32400016 | 10 | violet |

kd equation $25.08 \cdot 2.72^{(-.2817 \cdot id)}$

| | | | | | | | | | | | |
|------------------------|------|--|--------|-------|-----|------|-----|------|----------|----|-------|
| TORNADO DRIPPER | | | | | | | | | | | |
| 16 | 15.7 | | 6.336 | 0.395 | 9.0 | 11.0 | 8.6 | 11.4 | 34200202 | 10 | black |
| 18 | 17.9 | | 7.514 | 0.377 | 8.9 | 11.1 | 8.6 | 11.4 | 34200204 | 10 | blue |
| 25 | 24.6 | | 10.194 | 0.382 | 9.0 | 11.0 | 8.6 | 11.4 | 34200207 | 10 | green |
| 29 | 29.1 | | 12.310 | 0.374 | 8.9 | 11.1 | 8.5 | 11.5 | 34200209 | 10 | red |

kd equation $363.6 \cdot id^{(-2.3)}$

UPDATED 8/5/09

STATIC MINI SPRAYERS

| | FLOW | DRIP COEF. | DRIP EXP. | DH=7.5% | | DH=10% | | WCADI CAT. | Nominal Pressure | color |
|--|------|------------|-----------|---------|------|--------|------|------------|------------------|-------|
| | | | | Pmin | Pmax | Pmin | Pmax | | | |

TORNADO RAY JET

| | | | | | | | | | |
|-----------|----|--------|-------|------|------|------|------|--|----|
| BLACK .9 | 30 | 6.506 | 0.505 | 18.5 | 21.5 | 17.9 | 22.1 | | 20 |
| BLUE 1.3 | 40 | 7.417 | 0.561 | 18.6 | 21.4 | 18.1 | 21.9 | | 20 |
| GREEN 1.7 | 65 | 14.408 | 0.499 | 18.4 | 21.6 | 17.9 | 22.1 | | 20 |
| RED 2.0 | 80 | 22.739 | 0.417 | 18.1 | 21.9 | 17.4 | 22.6 | | 20 |

JET+

| | | | | | | | | | |
|---------------|-----|--------|--------|------|------|------|------|--|----|
| L. BLUE (0.6) | 30 | 6.26 | 0.5209 | 18.5 | 21.5 | 18.0 | 22.0 | | 20 |
| BLACK 0.8 | 40 | 11.16 | 0.4132 | 18.1 | 21.9 | 17.4 | 22.6 | | 20 |
| BLUE 1.0 | 51 | 12.786 | 0.458 | 18.3 | 21.7 | 17.7 | 22.3 | | 20 |
| DARK BLUE 1.1 | 63 | 14.347 | 0.492 | 18.4 | 21.6 | 17.9 | 22.1 | | 20 |
| GREEN 1.2 | 74 | 15.755 | 0.5157 | 18.5 | 21.5 | 18.0 | 22.0 | | 20 |
| RED 1.4 | 104 | 24.256 | 0.4845 | 18.4 | 21.6 | 17.8 | 22.2 | | 20 |

J.L.F JET LOW FLOW

| | | | | | | | | | |
|-----|------|-------|-------|------|------|------|------|--|----|
| JLF | 12.5 | 3.685 | 0.464 | 13.7 | 16.3 | 13.3 | 16.7 | | 15 |
|-----|------|-------|-------|------|------|------|------|--|----|

J.F.R

| COLOR (mm) | | | | | | | | | | |
|---------------|----|----|---|--|--|--|--|--|----------|----|
| BLACK (0.8) | 20 | 20 | 0 | | | | | | 36400020 | 15 |
| BLUE (1.0) | 30 | 30 | 0 | | | | | | 36400030 | 15 |
| DARK BL.(1.1) | 41 | 41 | 0 | | | | | | 36400041 | 15 |
| GREEN (1.2) | 53 | 53 | 0 | | | | | | 36500053 | 15 |
| RED (1.4) | 70 | 70 | 0 | | | | | | 36500070 | 15 |
| WHITE (1.6) | 95 | 95 | 0 | | | | | | 36500095 | 15 |

MIST SPRAYERS

TORNADO

| | | | | | | | | | |
|-------|----|-------|-------|------|------|------|------|--|----|
| BLACK | 22 | 3.645 | 0.524 | 27.8 | 32.2 | 27.0 | 33.0 | | 30 |
| BLUE | 25 | 4.766 | 0.504 | 27.7 | 32.3 | 26.9 | 33.1 | | 30 |
| GREEN | 38 | 6.477 | 0.521 | 27.8 | 32.2 | 27.0 | 33.0 | | 30 |
| RED | 45 | 8.913 | 0.477 | 27.5 | 32.5 | 26.7 | 33.3 | | 30 |

RONDO

| | | | | | | | | | |
|--|----|---------|--------|------|------|------|------|--|----|
| | 47 | 11.18 | 0.4132 | 27.1 | 32.9 | 26.1 | 33.9 | | 30 |
| | 61 | 12.786 | 0.4587 | 27.4 | 32.6 | 26.5 | 33.5 | | 30 |
| | 91 | 15.7554 | 0.5157 | 27.7 | 32.3 | 27.0 | 33.0 | | 30 |

FLF

| | | | | | | | | | |
|--------|----|--------|-------|------|------|------|------|--|----|
| 4x5/h | 20 | 5.316 | 0.393 | 27.0 | 33.0 | 25.9 | 34.1 | | 30 |
| 4x10/h | 40 | 10.632 | 0.393 | 27.0 | 33.0 | 25.9 | 34.1 | | 30 |

UPDATED 8/5/09

MINI SPRINKLERS

| TORNADO | | | | | | | | | | | |
|----------------|-----|--|--------|-------|--|------|------|------|------|--|----|
| BLACK .9 | 34 | | 8.6 | 0.458 | | 18.3 | 21.7 | 17.7 | 22.3 | | 20 |
| BLUE 1.3 | 43 | | 11.027 | 0.456 | | 18.3 | 21.7 | 17.7 | 22.3 | | 20 |
| GREEN 1.7 | 76 | | 20.304 | 0.442 | | 18.2 | 21.8 | 17.6 | 22.4 | | 20 |
| RED 2.0 | 100 | | 21.2 | 0.517 | | 18.5 | 21.5 | 18.0 | 22.0 | | 20 |
| WHITE 2.2 | 115 | | 26.017 | 0.495 | | 18.4 | 21.6 | 17.9 | 22.1 | | 20 |
| | | | | | | | | | | | |

RONDO MINI SPRINKLER AND ULTRA TYPE

| COLOR (mm) | | | | | | | | | | | | |
|---------------|-------|--|--------|--------|--|------|------|------|------|----------|----|-----------------------|
| L. BLUE (0.6) | 30 | | 6.024 | 0.5317 | | 18.5 | 21.5 | 18.0 | 22.0 | 36500030 | 20 | ULTRA |
| BLACK (0.8) | 39 | | 7.952 | 0.5281 | | 18.5 | 21.5 | 18.0 | 22.0 | 36500039 | 20 | MINI SPRIN. AND ULTRA |
| BLUE (1.0) | 51 | | 10.453 | 0.5286 | | 18.5 | 21.5 | 18.0 | 22.0 | 36500051 | 20 | MINI SPRIN. AND ULTRA |
| DARK BL.(1.1) | 64 | | 14.21 | 0.5024 | | 18.5 | 21.5 | 17.9 | 22.1 | 36500064 | 20 | MINI SPRIN. AND ULTRA |
| GREEN (1.2) | 75 | | 15.985 | 0.5145 | | 18.5 | 21.5 | 18.0 | 22.0 | 36500075 | 20 | MINI SPRIN. AND ULTRA |
| RED (1.4) | 102 | | 22.038 | 0.5108 | | 18.5 | 21.5 | 17.9 | 22.1 | 36500102 | 20 | MINI SPRIN. AND ULTRA |
| WHITE (1.6) | 132 | | 28.572 | 0.5112 | | 18.5 | 21.5 | 18.0 | 22.0 | 36500132 | 20 | MINI SPRIN. AND ULTRA |
| VIOLET (1.8) | 173.9 | | 39.191 | 0.4982 | | 18.4 | 21.6 | 17.9 | 22.1 | 36500174 | 20 | MINI SPRIN. AND ULTRA |
| YELLOW (2.0) | 206 | | 43.436 | 0.524 | | 18.5 | 21.5 | 18.0 | 22.0 | 36500206 | 20 | MINI SPRIN. AND ULTRA |
| BROWN (2.2) | 254 | | 56.196 | 0.5039 | | 18.5 | 21.5 | 17.9 | 22.1 | 36000254 | 20 | MINI SPRINKLER |
| ORANGE (2.4) | 298 | | 65.505 | 0.5056 | | 18.5 | 21.5 | 17.9 | 22.1 | 36000298 | 20 | MINI SPRINKLER |

WITH 4/7 TUBE

RFR

| COLOR (mm) | | | | | | | | | | | | |
|---------------|----|--|----|---|--|--|--|--|--|----------|----|--|
| BLACK (0.8) | 20 | | 20 | 0 | | | | | | 36400020 | 15 | |
| BLUE (1.0) | 30 | | 30 | 0 | | | | | | 36400030 | 15 | |
| DARK BL.(1.1) | 41 | | 41 | 0 | | | | | | 36400041 | 15 | |
| GREEN (1.2) | 53 | | 53 | 0 | | | | | | 36500053 | 15 | |
| RED (1.4) | 70 | | 70 | 0 | | | | | | 36500070 | 15 | |
| WHITE (1.6) | 95 | | 95 | 0 | | | | | | 36500095 | 15 | |

RONDO XL

| COLOR (mm) | | | | | | | | | | | | |
|--------------|-----|--|---------|--------|--|------|------|------|------|----------|----|--|
| WHITE (1.6) | 134 | | 30.8589 | 0.4918 | | 18.4 | 21.6 | 17.9 | 22.1 | 37000135 | 20 | |
| VIOLET (1.8) | 171 | | 41.202 | 0.477 | | 18.4 | 21.6 | 17.8 | 22.2 | 37000170 | 20 | |
| YELLOW(2.0) | 212 | | 50.1894 | 0.4807 | | 18.4 | 21.6 | 17.8 | 22.2 | 37000210 | 20 | |
| BROWN (2.2) | 259 | | 63.5234 | 0.4712 | | 18.3 | 21.7 | 17.8 | 22.2 | 37000260 | 20 | |
| ORANGE(2.4) | 305 | | 73.3716 | 0.4768 | | 18.4 | 21.6 | 17.8 | 22.2 | 37000305 | 20 | |
| GREY (2.6) | 367 | | 82.5585 | 0.4977 | | 18.4 | 21.6 | 17.9 | 22.1 | 37000367 | 20 | |