

Ultraflo and Portaflow 300 flowranges

Note: Pipe ID and sensor separation distances are based on average pipe size. To be used as approx. Guide only (d)=default

| Pipe Size | | Flowrange | | | | Sensor Details | | |
|-------------|---------|---------------|----------------|-----------------|------------------|----------------|----------------------------|-----------------|
| NB (mm) | ID (mm) | metres/sec | litres/sec | LPM | m3/hr | type | traverses | seperation (mm) |
| 3/8" (10) | 13 | 0.20 to 8.50 | 0.03 to 1.13 | 1.59 to 66 | 0.10 to 4.06 | 'A' | Triple Reflex = 6 (d) | 5.5 |
| 1/2" (15) | 17 | 0.15 to 6.40 | 0.03 to 1.45 | 2.04 to 87 | 0.12 to 5.23 | 'A' | Triple Reflex = 6 (d) | 14.0 |
| 3/4" (20) | 21 | 0.13 to 5.36 | 0.05 to 1.86 | 2.70 to 111 | 0.16 to 6.68 | 'A' | Triple Reflex = 6 | 23.0 |
| 3/4" (20) | 21 | 0.12 to 7.50 | 0.04 to 2.60 | 2.49 to 156 | 0.15 to 9.35 | 'A' | Double Reflex = 4 (d) | 10.0 |
| 1" (25) | 26 | 0.10 to 4.33 | 0.05 to 2.30 | 3.19 to 138 | 0.19 to 8.28 | 'A' | Triple Reflex = 6 | 36.0 |
| 1" (25) | 26 | 0.10 to 6.18 | 0.05 to 3.28 | 3.19 to 197 | 0.19 to 11.81 | 'A' | Double Reflex = 4 (d) | 17.5 |
| 1 1/2" (40) | 40 | 0.11 to 8.20 | 0.14 to 10.30 | 8.29 to 618 | 0.50 to 37.10 | 'A' | Reflex = 2 (d) | 9.5 |
| 2" (50) | 54 | 0.07 to 6.08 | 0.16 to 14.15 | 9.62 to 849 | 0.58 to 50.95 | 'A' | Reflex = 2 (d) | 20.0 |
| 2" (50) | 54 | 0.14 to 12.36 | 0.32 to 28.31 | 19.24 to 1698 | 1.15 to 101.91 | 'B' | Reflex = 2 | 13.5 |
| 2 1/2" (65) | 64 | 0.06 to 5.20 | 0.19 to 16.73 | 11.58 to 1004 | 0.69 to 60.22 | 'A' | Reflex = 2 (d) | 29.0 |
| 2 1/2" (65) | 64 | 0.12 to 10.50 | 0.39 to 33.78 | 23.16 to 2027 | 1.39 to 121.60 | 'B' | Reflex = 2 | 23.0 |
| 3" (80) | 80 | 0.15 to 4.08 | 0.25 to 21.01 | 15.08 to 1261 | 0.90 to 75.64 | 'A' | Reflex = 2 (d) | 40.0 |
| 3" (80) | 80 | 0.10 to 8.35 | 0.25 to 40.01 | 30.16 to 2518 | 1.81 to 151.10 | 'B' | Reflex = 2 | 33.0 |
| 4" (100) | 104 | 0.04 to 3.20 | 0.34 to 27.18 | 20.39 to 1631 | 1.22 to 97.86 | 'A' | Reflex = 2 1500 | 56.0 |
| 4" (100) | 104 | 0.08 to 6.40 | 0.68 to 54.37 | 40.78 to 3262 | 2.45 to 195.72 | 'B' | Reflex = 2 (d) 1500 | 50.0 |
| 5" (125) | 128 | 0.06 to 5.17 | 0.77 to 66.53 | 46.32 to 3992 | 2.78 to 239.50 | 'B' | Reflex = 2 (d) | 68.0 |
| 6" (150) | 154 | 0.05 to 4.30 | 0.93 to 80.09 | 55.88 to 4806 | 3.35 to 288.34 | 'B' | Reflex = 2 (d) 2800 | 86.0 |
| 6" (150) | 154 | 0.10 to 8.74 | 1.90 to 162.80 | 113.99 to 9768 | 6.84 to 586.06 | 'B' | Diagonal = 1 | 35.0 |
| 6" (150) | 154 | 0.14 to 12.29 | 2.64 to 228.92 | 158.70 to 13735 | 9.52 to 824.11 | 'C' | Reflex = 2 | 10.0 |
| 8" (200) | 202 | 0.04 to 3.27 | 1.28 to 104.79 | 76.91 to 6288 | 4.61 to 377.26 | 'B' | Reflex = 2 (d) 3300 | 120.0 |
| 8" (200) | 202 | 0.08 to 6.50 | 2.56 to 208.31 | 153.83 to 12498 | 9.23 to 749.91 | 'B' | Diagonal = 1 | 54.0 |
| 8" (200) | 202 | 0.11 to 9.32 | 3.53 to 298.80 | 211.51 to 17927 | 12.69 to 1075.60 | 'C' | Reflex = 2 | 22.0 |
| 10" (250) | 254 | 0.03 to 2.60 | 1.52 to 131.74 | 91.21 to 7905 | 5.47 to 474.28 | 'B' | Reflex = 2 | 154.0 |
| 10" (250) | 254 | 0.06 to 5.28 | 3.04 to 267.54 | 182.41 to 16052 | 10.94 to 963.15 | 'B' | Diagonal = 1 (d) | 72.0 |
| 10" (250) | 254 | 0.08 to 7.42 | 4.05 to 376.0 | 243.22 to 22559 | 14.59 to 1354 | 'C' | Reflex = 2 | 35.0 |
| 12" (300) | 303 | 0.025 to 2.21 | 1.80 to 159 | 108 to 9561 | 6.49 to 574 | 'B' | Reflex = 2 | 186.0 |
| 12" (300) | 303 | 0.05 to 4.36 | 3.61 to 314 | 216 to 18863 | 12.98 to 1132 | 'B' | Diagonal = 1 (d) | 90.0 |
| 12" (300) | 303 | 0.07 to 6.14 | 5.05 to 443 | 303 to 26564 | 18.17 to 1594 | 'C' | Reflex = 2 | 47.0 |
| 12" (300) | 303 | 0.14 to 12.29 | 10.09 to 889 | 606 to 53171 | 36.64 to 3190 | 'C' | Diagonal = 1 | 12.0 |

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| Pipe Size | | Flowrange | | | | Sensor Details | | |
|-----------|---------|---------------|---------------|----------------|---------------|----------------|------------------|-----------------|
| NB (mm) | ID (mm) | metres/sec | litres/sec | LPM | m3/hr | type | traverses | seperation (mm) |
| 14" (350) | 337 | 0.044 to 3.94 | 3.92 to 351 | 235 to 21086 | 14.13 to 1265 | 'B' | Diagonal = 1 (d) | 100.0 |
| 14" (350) | 337 | 0.06 to 5.51 | 5.35 to 491 | 321 to 29488 | 19.27 to 1769 | 'C' | Reflex = 2 | 54.0 |
| 14" (350) | 337 | 0.12 to 11.23 | 10.70 to 1000 | 642 to 60101 | 38.53 to 3606 | 'C' | Diagonal = 1 | 16.0 |
| 16" (400) | 387 | 0.04 to 3.47 | 4.71 to 408 | 282 to 24490 | 16.94 to 1469 | 'B' | Diagonal = 1 | 117.0 |
| 16" (400) | 387 | 0.05 to 4.87 | 5.88 to 573 | 353 to 34371 | 21.17 to 2062 | 'C' | Reflex = 2 | 66.0 |
| 16" (400) | 387 | 0.11 to 9.75 | 12.94 to 1147 | 776 to 68813 | 46.58 to 4129 | 'C' | Diagonal = 1 | 21.0 |
| 18" (450) | 438 | 0.035 to 3.00 | 5.27 to 452 | 316 to 27121 | 18.98 to 1627 | 'B' | Diagonal = 1 | 132.0 |
| 18" (450) | 438 | 0.045 to 4.00 | 6.78 to 603 | 407 to 36162 | 24.41 to 2170 | 'C' | Reflex = 2 | 77.0 |
| 18" (450) | 438 | 0.09 to 8.47 | 13.56 to 1276 | 814 to 76572 | 48.82 to 4594 | 'C' | Diagonal = 1 | 27.0 |
| 20" (500) | 488 | 0.03 to 2.68 | 5.61 to 501 | 337 to 30076 | 20.20 to 1805 | 'B' | Diagonal = 1 | 148.0 |
| 20" (500) | 488 | 0.040 to 3.60 | 7.48 to 673 | 449 to 40400 | 26.93 to 2424 | 'C' | Reflex = 2 | 89.0 |
| 20" (500) | 488 | 0.08 to 7.63 | 14.96 to 1427 | 898 to 85626 | 53.87 to 5138 | 'C' | Diagonal = 1 | 33.0 |
| 24" (600) | 590 | 0.026 to 2.28 | 7.11 to 623 | 426 to 37401 | 25.59 to 2244 | 'B' | Diagonal =1 (d) | 180.0 |
| 24" (600) | 590 | 0.033 to 2.97 | 9.02 to 812 | 541 to 48719 | 32.48 to 2923 | 'C' | Reflex = 2 | 112.0 |
| 24" (600) | 590 | 0.07 to 6.36 | 19.14 to 1739 | 1148 to 104328 | 68.90 to 6260 | 'C' | Diagonal = 1 | 45.0 |
| 24" (600) | 590 | 0.07 to 6.00 | 18.59 to 1640 | 1115 to 98423 | 66.93 to 5905 | 'D' | Reflex = 2 | 29.0 |
| 28" (700) | 692 | 0.024 to 1.97 | 9.03 to 741 | 542 to 44455 | 32.49 to 2667 | 'B' | Diagonal =1 | 213.0 |
| 28" (700) | 692 | 0.028 to 2.54 | 10.53 to 955 | 632 to 57317 | 37.91 to 3439 | 'C' | Reflex = 2 | 136.0 |
| 28" (700) | 692 | 0.060 to 5.51 | 22.57 to 2072 | 1354 to 124338 | 81.24 to 7460 | 'C' | Diagonal = 1 | 56.0 |
| 28" (700) | 692 | 0.058 to 5.13 | 21.81 to 1929 | 1309 to 115673 | 78.53 to 6946 | 'D' | Reflex = 2 | 52.0 |
| 30" (750) | 743 | 0.022 to 1.81 | 9.54 to 785 | 572 to 47087 | 34.34 to 2825 | 'B' | Diagonal =1 | 230.0 |
| 30" (750) | 743 | 0.026 to 2.33 | 11.27 to 1010 | 147 to 60614 | 40.58 to 3637 | 'C' | Reflex = 2 | 147.0 |
| 30" (750) | 743 | 0.058 to 5.10 | 25.15 to 2211 | 1509 to 132675 | 90.53 to 7960 | 'C' | Diagonal = 1 | 62.0 |
| 30" (750) | 743 | 0.053 to 4.70 | 22.98 to 2038 | 1379 to 122269 | 82.73 to 7336 | 'D' | Reflex = 2 | 63.0 |
| 32" (800) | 794 | 0.021 to 1.73 | 10.40 to 857 | 624 to 51396 | 37.43 to 3084 | 'B' | Diagonal =1 | 246.0 |
| 32" (800) | 794 | 0.026 to 2.33 | 12.87 to 1154 | 147 to 69221 | 46.35 to 4153 | 'C' | Reflex = 2 | 159.0 |
| 32" (800) | 794 | 0.052 to 4.66 | 25.75 to 2307 | 1545 to 138442 | 92.69 to 8307 | 'C' | Diagonal = 1 | 68.0 |
| 32" (800) | 794 | 0.053 to 4.70 | 26.24 to 2327 | 1575 to 139630 | 94.47 to 8378 | 'D' | Reflex = 2 | 75.0 |

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|-------------|---------|---------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|
| NB (mm) | ID (mm) | metres/sec | litres/sec | LPM | m3/hr | type | traverses | seperation (mm) |
| 36" (900) | 895 | 0.020 to 1.42 | 12.58 to 893 | 755 to 53601 | 45.30 to 3216 | 'B' | Diagonal =1 | 278.0 |
| 36" (900) | 895 | 0.024 to 2.12 | 15.10 to 1334 | 147 to 80025 | 54.36 to 4801 | 'C' | Reflex = 2 | 182.0 |
| 36" (900) | 895 | 0.045 to 4.03 | 28.31 to 2535 | 1699 to 152122 | 101.92 to 9127 | 'C' | Diagonal = 1 | 80.0 |
| 36" (900) | 895 | 0.048 to 4.28 | 30.00 to 2693 | 1812 to 161559 | 108.71 to 9694 | 'D' | Reflex = 2 | 98.0 |
| 40" (1000) | 997 | 0.020 to 1.26 | 15.61 to 984 | 937 to 59020 | 56 to 3541 | 'B' | Diagonal =1 | 311.0 |
| 40" (1000) | 997 | 0.021 to 1.91 | 16.39 to 1491 | 147 to 89467 | 59 to 5368 | 'C' | Reflex = 2 | 206.0 |
| 40" (1000) | 997 | 0.040 to 3.60 | 31.23 to 2810 | 1874 to 168630 | 112 to 10118 | 'C' | Diagonal = 1 | 91.0 |
| 40" (1000) | 997 | 0.043 to 3.85 | 33.57 to 3006 | 2014 to 180340 | 121 to 10820 | 'D' | Reflex = 2 | 121.0 |
| 48" (1200) | 1200 | 0.020 to 1.10 | 22.62 to 1244 | 1357 to 74644 | 81 to 4479 | 'B' | Diagonal =1 (d) | 370.0 |
| 48" (1200) | 1200 | 0.020 to 1.48 | 22.62 to 1674 | 1357 to 100430 | 81 to 6026 | 'C' | Reflex = 2 | 247.0 |
| 48" (1200) | 1200 | 0.035 to 2.97 | 39.58 to 3359 | 2375 to 201539 | 143 to 12092 | 'C' | Diagonal = 1 | 112.0 |
| 48" (1200) | 1200 | 0.033 to 3.00 | 37.32 to 3393 | 2239 to 203575 | 134 to 12215 | 'D' | Reflex = 2 | 162.0 |
| 48" (1200) | 1200 | 0.065 to 6.00 | 73.51 to 6786 | 4411 to 407150 | 265 to 24429 | 'D' | Diagonal = 1 | 28.0 |
| 60" (1500) | 1474 | 0.020 to 1.27 | 34.13 to 2167 | 147 to 130029 | 123 to 7802 | 'C' | Reflex = 2 | 331.0 |
| 60" (1500) | 1474 | 0.028 to 2.54 | 47.48 to 4334 | 2867 to 260058 | 172 to 15603 | 'C' | Diagonal = 1 | 161.0 |
| 60" (1500) | 1474 | 0.029 to 2.57 | 49.49 to 4385 | 2969 to 263129 | 178 to 15788 | 'D' | Reflex = 2 | 245.0 |
| 60" (1500) | 1474 | 0.058 to 5.13 | 98.97 to 8754 | 5938 to 525235 | 356 to 31514 | 'D' | Diagonal = 1 | 78.0 |
| 80" (2000) | 1981 | 0.020 to 0.85 | 61.64 to 2620 | 3699 to 157191 | 222 to 9431 | 'C' | Reflex = 2 | 448.0 |
| 80" (2000) | 1981 | 0.021 to 1.91 | 64.73 to 5887 | 3884 to 353219 | 233 to 21193 | 'C' | Diagonal = 1 | 221.0 |
| 80" (2000) | 1981 | 0.020 to 1.71 | 61.64 to 5271 | 3699 to 316232 | 222 to 18974 | 'D' | Reflex = 2 | 360.0 |
| 80" (2000) | 1981 | 0.043 to 3.85 | 132.53 to 11866 | 7952 to 711985 | 477 to 42719 | 'D' | Diagonal = 1 | 136.0 |
| 100" (2500) | 2440 | 0.020 to 1.48 | 93.52 to 6920 | 5611 to 415224 | 337 to 24913 | 'C' | Diagonal = 1 | 278.0 |
| 100" (2500) | 2440 | 0.020 to 1.28 | 93.52 to 5985 | 5611 to 359113 | 337 to 21547 | 'D' | Reflex = 2 | 469.0 |
| 100" (2500) | 2440 | 0.034 to 3.00 | 158.98 to 14028 | 9539 to 841670 | 572 to 50500 | 'D' | Diagonal = 1 | 193.0 |