

Perdite di carico continue TUBI IN PE 100 - PN 16 - Temperatura acqua = 10°C

| <i>r</i> = perdite di carico continue, mm c.a./m | | | | | | | | | | | | | | | | <i>G</i> = portate, l/h | | <i>v</i> = velocità, m/s | |
|--|-----------------|------|-------|-------|-------|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|-------------------------|----------|--------------------------|--|
| <i>r</i> | \varnothing_e | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 140 | 160 | 180 | 200 | \varnothing_e | <i>r</i> | | |
| | \varnothing_i | 16 | 20,4 | 26 | 32,6 | 40,8 | 51,4 | 61,4 | 73,6 | 90 | 102,2 | 114,6 | 130,8 | 147,2 | 163,6 | \varnothing_i | | | |
| 2 | G | 79 | 154 | 297 | 548 | 1.008 | 1.887 | 3.058 | 5.001 | 8.633 | 12.190 | 16.634 | 23.815 | 32.817 | 43.714 | G | 2 | | |
| | v | 0,11 | 0,13 | 0,16 | 0,18 | 0,21 | 0,25 | 0,29 | 0,33 | 0,38 | 0,41 | 0,45 | 0,49 | 0,54 | 0,58 | v | | | |
| 4 | G | 118 | 228 | 441 | 815 | 1.498 | 2.804 | 4.544 | 7.431 | 12.828 | 18.114 | 24.718 | 35.390 | 48.766 | 64.959 | G | 4 | | |
| | v | 0,16 | 0,19 | 0,23 | 0,27 | 0,32 | 0,38 | 0,43 | 0,49 | 0,56 | 0,61 | 0,67 | 0,73 | 0,80 | 0,86 | v | | | |
| 6 | G | 149 | 288 | 556 | 1.027 | 1.889 | 3.536 | 5.728 | 9.368 | 16.173 | 22.837 | 31.163 | 44.617 | 61.481 | 81.896 | G | 6 | | |
| | v | 0,21 | 0,24 | 0,29 | 0,34 | 0,40 | 0,47 | 0,54 | 0,61 | 0,71 | 0,77 | 0,84 | 0,92 | 1,00 | 1,08 | v | | | |
| 8 | G | 175 | 339 | 655 | 1.211 | 2.226 | 4.167 | 6.752 | 11.042 | 19.063 | 26.918 | 36.731 | 52.589 | 72.466 | 96.528 | G | 8 | | |
| | v | 0,24 | 0,29 | 0,34 | 0,40 | 0,47 | 0,56 | 0,63 | 0,72 | 0,83 | 0,91 | 0,99 | 1,09 | 1,18 | 1,28 | v | | | |
| 10 | G | 199 | 385 | 744 | 1.376 | 2.529 | 4.734 | 7.670 | 12.544 | 21.655 | 30.578 | 41.726 | 59.741 | 82.321 | 109.656 | G | 10 | | |
| | v | 0,28 | 0,33 | 0,39 | 0,46 | 0,54 | 0,63 | 0,72 | 0,82 | 0,95 | 1,04 | 1,12 | 1,23 | 1,34 | 1,45 | v | | | |
| 12 | G | 221 | 428 | 826 | 1.527 | 2.807 | 5.254 | 8.512 | 13.921 | 24.033 | 33.936 | 46.308 | 66.300 | 91.361 | 121.697 | G | 12 | | |
| | v | 0,31 | 0,36 | 0,43 | 0,51 | 0,60 | 0,70 | 0,80 | 0,91 | 1,05 | 1,15 | 1,25 | 1,37 | 1,49 | 1,61 | v | | | |
| 14 | G | 242 | 467 | 902 | 1.667 | 3.065 | 5.738 | 9.296 | 15.203 | 26.246 | 37.061 | 50.572 | 72.405 | 99.773 | 132.903 | G | 14 | | |
| | v | 0,33 | 0,40 | 0,47 | 0,55 | 0,65 | 0,77 | 0,87 | 0,99 | 1,15 | 1,25 | 1,36 | 1,50 | 1,63 | 1,76 | v | | | |
| 16 | G | 261 | 504 | 974 | 1.799 | 3.308 | 6.193 | 10.033 | 16.409 | 28.327 | 40.000 | 54.582 | 78.146 | 107.684 | 143.440 | G | 16 | | |
| | v | 0,36 | 0,43 | 0,51 | 0,60 | 0,70 | 0,83 | 0,94 | 1,07 | 1,24 | 1,35 | 1,47 | 1,62 | 1,76 | 1,90 | v | | | |
| 18 | G | 279 | 539 | 1.042 | 1.925 | 3.539 | 6.624 | 10.732 | 17.551 | 30.299 | 42.784 | 58.382 | 83.587 | 115.181 | 153.427 | G | 18 | | |
| | v | 0,39 | 0,46 | 0,54 | 0,64 | 0,75 | 0,89 | 1,01 | 1,15 | 1,32 | 1,45 | 1,57 | 1,73 | 1,88 | 2,03 | v | | | |
| 20 | G | 296 | 573 | 1.106 | 2.044 | 3.758 | 7.035 | 11.397 | 18.640 | 32.180 | 45.439 | 62.005 | 88.774 | 122.329 | 162.948 | G | 20 | | |
| | v | 0,41 | 0,49 | 0,58 | 0,68 | 0,80 | 0,94 | 1,07 | 1,22 | 1,41 | 1,54 | 1,67 | 1,84 | 2,00 | 2,15 | v | | | |
| 22 | G | 313 | 605 | 1.168 | 2.159 | 3.969 | 7.429 | 12.035 | 19.683 | 33.981 | 47.983 | 65.475 | 93.743 | 129.176 | 172.069 | G | 22 | | |
| | v | 0,43 | 0,51 | 0,61 | 0,72 | 0,84 | 0,99 | 1,13 | 1,29 | 1,48 | 1,62 | 1,76 | 1,94 | 2,11 | 2,27 | v | | | |
| 24 | G | 329 | 636 | 1.228 | 2.269 | 4.171 | 7.807 | 12.649 | 20.687 | 35.713 | 50.429 | 68.813 | 98.522 | 135.761 | 180.840 | G | 24 | | |
| | v | 0,45 | 0,54 | 0,64 | 0,75 | 0,89 | 1,05 | 1,19 | 1,35 | 1,56 | 1,71 | 1,85 | 2,04 | 2,22 | 2,39 | v | | | |
| 26 | G | 344 | 665 | 1.285 | 2.375 | 4.366 | 8.173 | 13.241 | 21.655 | 37.384 | 52.789 | 72.033 | 103.133 | 142.115 | 189.304 | G | 26 | | |
| | v | 0,48 | 0,57 | 0,67 | 0,79 | 0,93 | 1,09 | 1,24 | 1,41 | 1,63 | 1,79 | 1,94 | 2,13 | 2,32 | 2,50 | v | | | |
| 28 | G | 359 | 694 | 1.341 | 2.478 | 4.555 | 8.526 | 13.814 | 22.592 | 39.002 | 55.072 | 75.149 | 107.594 | 148.263 | 197.492 | G | 28 | | |
| | v | 0,50 | 0,59 | 0,70 | 0,82 | 0,97 | 1,14 | 1,30 | 1,48 | 1,70 | 1,86 | 2,02 | 2,22 | 2,42 | 2,61 | v | | | |
| 30 | G | 373 | 722 | 1.395 | 2.577 | 4.738 | 8.869 | 14.369 | 23.500 | 40.570 | 57.287 | 78.171 | 111.921 | 154.224 | 205.434 | G | 30 | | |
| | v | 0,52 | 0,61 | 0,73 | 0,86 | 1,01 | 1,19 | 1,35 | 1,53 | 1,77 | 1,94 | 2,11 | 2,31 | 2,52 | 2,71 | v | | | |
| 35 | G | 408 | 788 | 1.523 | 2.814 | 5.175 | 9.686 | 15.692 | 25.664 | 44.306 | 62.562 | 85.370 | 122.227 | 168.426 | 224.351 | G | 35 | | |
| | v | 0,56 | 0,67 | 0,80 | 0,94 | 1,10 | 1,30 | 1,47 | 1,68 | 1,93 | 2,12 | 2,30 | 2,53 | 2,75 | 2,96 | v | | | |
| 40 | G | 440 | 851 | 1.644 | 3.038 | 5.585 | 10.454 | 16.937 | 27.699 | 47.819 | 67.523 | 92.138 | 131.918 | 181.780 | 242.140 | G | 40 | | |
| | v | 0,61 | 0,72 | 0,86 | 1,01 | 1,19 | 1,40 | 1,59 | 1,81 | 2,09 | 2,29 | 2,48 | 2,73 | 2,97 | 3,20 | v | | | |
| 45 | G | 471 | 910 | 1.758 | 3.249 | 5.974 | 11.181 | 18.116 | 29.628 | 51.148 | 72.224 | 98.553 | 141.102 | 194.436 | 258.998 | G | 45 | | |
| | v | 0,65 | 0,77 | 0,92 | 1,08 | 1,27 | 1,50 | 1,70 | 1,93 | 2,23 | 2,45 | 2,65 | 2,92 | 3,17 | 3,42 | v | | | |
| 50 | G | 500 | 967 | 1.867 | 3.451 | 6.344 | 11.875 | 19.240 | 31.466 | 54.322 | 76.706 | 104.669 | 149.858 | 206.502 | 275.070 | G | 50 | | |
| | v | 0,69 | 0,82 | 0,98 | 1,15 | 1,35 | 1,59 | 1,80 | 2,05 | 2,37 | 2,60 | 2,82 | 3,10 | 3,37 | 3,63 | v | | | |
| 60 | G | 555 | 1.073 | 2.072 | 3.830 | 7.041 | 13.179 | 21.353 | 34.921 | 60.287 | 85.128 | 116.162 | 166.313 | 229.177 | 305.274 | G | 60 | | |
| | v | 0,77 | 0,91 | 1,08 | 1,27 | 1,50 | 1,76 | 2,00 | 2,28 | 2,63 | 2,88 | 3,13 | 3,44 | 3,74 | 4,03 | v | | | |
| 70 | G | 606 | 1.172 | 2.263 | 4.182 | 7.689 | 14.393 | 23.319 | 38.137 | 65.838 | 92.967 | 126.859 | 181.628 | 250.280 | 333.384 | G | 70 | | |
| | v | 0,84 | 1,00 | 1,18 | 1,39 | 1,63 | 1,93 | 2,19 | 2,49 | 2,87 | 3,15 | 3,42 | 3,75 | 4,09 | 4,41 | v | | | |
| 80 | G | 654 | 1.265 | 2.443 | 4.514 | 8.299 | 15.534 | 25.168 | 41.161 | 71.058 | 100.338 | 136.917 | 196.029 | 270.124 | 359.818 | G | 80 | | |
| | v | 0,90 | 1,07 | 1,28 | 1,50 | 1,76 | 2,08 | 2,36 | 2,69 | 3,10 | 3,40 | 3,69 | 4,05 | 4,41 | 4,75 | v | | | |
| 90 | G | 700 | 1.353 | 2.613 | 4.828 | 8.877 | 16.616 | 26.920 | 44.026 | 76.006 | 107.324 | 146.450 | 209.677 | 288.931 | 384.869 | G | 90 | | |
| | v | 0,97 | 1,15 | 1,37 | 1,61 | 1,89 | 2,22 | 2,53 | 2,87 | 3,32 | 3,63 | 3,94 | 4,33 | 4,72 | 5,09 | v | | | |
| 100 | G | 743 | 1.437 | 2.775 | 5.128 | 9.428 | 17.647 | 28.590 | 46.758 | 80.722 | 113.984 | 155.538 | 222.689 | 306.861 | 408.752 | G | 100 | | |
| | v | 1,03 | 1,22 | 1,45 | 1,71 | 2,00 | 2,36 | 2,68 | 3,05 | 3,52 | 3,86 | 4,19 | 4,60 | 5,01 | 5,40 | v | | | |

Se = superficie esterna, m²/m **Si** = sezione interna, mm² **V** = contenuto acqua, l/m

| \varnothing_e [mm] | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 125 | 140 | 160 | 180 | 200 | \varnothing_e [mm] |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------------------------------|
| \varnothing_i [mm] | 16 | 20,4 | 26 | 32,6 | 40,8 | 51,4 | 61,4 | 73,6 | 90 | 102,2 | 114,6 | 130,8 | 147,2 | 163,6 | \varnothing_i [mm] |
| Se [m ² /m] | 0,063 | 0,079 | 0,101 | 0,126 | 0,157 | 0,198 | 0,236 | 0,283 | 0,346 | 0,393 | 0,440 | 0,503 | 0,565 | 0,628 | Se [m ² /m] |
| Si [mm ²] | 201 | 327 | 531 | 835 | 1.307 | 2.075 | 2.961 | 4.254 | 6.362 | 8.203 | 10.315 | 13.437 | 17.018 | 21.021 | Si [mm ²] |
| V [l/m] | 0,20 | 0,33 | 0,53 | 0,83 | 1,31 | 2,07 | 2,96 | 4,25 | 6,36 | 8,20 | 10,31 | 13,44 | 17,02 | 21,02 | V [l/m] |