

Componente Acque Superficiali – Allegato 2E**Verifica stato di esercizio**

Tabella 2.E.1 - Verifica dello stato di esercizio: tempo di ritorno 30 anni.

| tempo [s] | Q monte sfioratore [m³/s] | Q valle sfioratore [m³/s] | Q valle sfioratore sicurezza [m³/s] |
|----------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|
| 354.31 | 9.58 | 9.03 | 5.50 |
| 818.63 | 11.73 | 10.16 | 10.02 |
| 1282.56 | 13.42 | 10.89 | 10.75 |
| 1732.81 | 17.97 | 12.43 | 12.21 |
| 2165.39 | 22.57 | 15.21 | 14.22 |
| 2573.05 | 29.81 | 19.50 | 18.68 |
| 2956.34 | 34.08 | 21.97 | 21.49 |
| 3323.17 | 40.17 | 25.72 | 25.55 |
| 3659.86 | 45.65 | 28.69 | 28.33 |
| 3974.98 | 50.14 | 31.29 | 30.35 |
| 4272.25 | 55.89 | 34.64 | 34.16 |
| 4572.92 | 60.32 | 37.15 | 36.59 |
| 4875.89 | 65.65 | 40.24 | 39.70 |
| 5195.69 | 70.07 | 37.21 | 36.74 |
| 5522.27 | 76.41 | 40.19 | 39.84 |
| 5844.60 | 81.43 | 42.57 | 42.28 |
| 6162.42 | 86.45 | 44.98 | 44.58 |
| 6476.56 | 91.40 | 47.31 | 46.96 |
| 6787.53 | 96.59 | 49.71 | 49.64 |
| 7094.61 | 101.46 | 52.07 | 50.30 |
| 7399.01 | 106.61 | 54.70 | 54.27 |
| 7698.33 | 111.07 | 57.29 | 56.89 |
| 7995.46 | 115.44 | 59.84 | 59.44 |
| 8287.78 | 119.67 | 62.32 | 61.92 |
| 8579.93 | 123.73 | 64.71 | 64.38 |
| 8878.62 | 127.78 | 67.10 | 66.75 |
| 9175.67 | 131.80 | 69.48 | 69.11 |
| 9471.21 | 135.28 | 71.54 | 71.25 |
| 9765.52 | 138.60 | 73.51 | 73.11 |
| 10058.63 | 141.92 | 75.48 | 75.17 |
| 10350.66 | 144.72 | 77.15 | 76.92 |
| 10641.78 | 147.37 | 78.73 | 78.51 |
| 10932.03 | 150.00 | 80.30 | 80.08 |
| 11221.51 | 152.08 | 81.55 | 81.39 |
| 11510.38 | 153.89 | 82.63 | 82.47 |
| 11798.71 | 155.58 | 83.64 | 83.49 |
| 12086.47 | 156.29 | 84.06 | 84.10 |
| 12374.25 | 155.73 | 83.73 | 83.78 |
| 12662.21 | 155.11 | 83.36 | 83.42 |
| 12950.49 | 154.11 | 82.76 | 82.94 |
| 13239.27 | 151.69 | 81.31 | 81.50 |
| 13528.65 | 149.79 | 80.18 | 80.39 |
| 13818.89 | 147.04 | 78.53 | 78.82 |
| 14110.19 | 142.30 | 75.71 | 76.19 |
| 14403.39 | 137.67 | 72.96 | 73.38 |

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| 14698.12 | 132.27 | 69.75 | 70.21 |
| 14994.86 | 127.76 | 67.09 | 67.66 |
| 15293.55 | 122.64 | 64.07 | 64.63 |
| 15594.42 | 117.78 | 61.22 | 61.75 |
| 15898.02 | 110.67 | 57.07 | 57.77 |
| 16194.58 | 106.00 | 55.41 | 56.03 |
| 16491.32 | 96.96 | 54.59 | 54.69 |
| 16791.52 | 88.44 | 52.30 | 51.92 |
| 17091.61 | 83.76 | 55.63 | 54.27 |
| 17390.84 | 78.30 | 57.02 | 57.03 |
| 17689.46 | 71.37 | 56.07 | 54.87 |
| 17987.22 | 66.65 | 58.08 | 56.44 |
| 18282.69 | 63.54 | 59.91 | 60.29 |
| 18576.71 | 58.44 | 59.90 | 58.66 |
| 18870.96 | 54.68 | 58.14 | 57.06 |
| 19165.88 | 51.23 | 56.05 | 55.42 |
| 19461.95 | 48.00 | 53.96 | 53.42 |
| 19762.47 | 44.80 | 51.90 | 51.36 |
| 20065.50 | 41.91 | 49.69 | 50.15 |
| 20373.11 | 39.48 | 49.92 | 51.20 |
| 20684.04 | 35.98 | 45.33 | 45.31 |
| 20999.66 | 33.33 | 41.81 | 41.56 |
| 21319.65 | 29.73 | 40.14 | 39.36 |
| 21646.69 | 27.83 | 39.63 | 40.27 |
| 21977.55 | 27.23 | 36.27 | 35.29 |
| 22313.30 | 25.86 | 33.75 | 34.10 |
| 22653.99 | 23.07 | 32.38 | 32.47 |
| 22998.07 | 21.24 | 30.83 | 30.66 |
| 23343.25 | 20.64 | 31.09 | 30.08 |
| 23691.45 | 18.29 | 29.37 | 28.26 |
| 24043.57 | 17.36 | 28.11 | 27.02 |
| 24398.45 | 15.62 | 26.96 | 25.81 |
| 24756.42 | 15.18 | 26.23 | 25.48 |
| 25120.77 | 12.83 | 23.36 | 22.21 |
| 25490.65 | 12.28 | 22.40 | 21.92 |
| 25867.07 | 11.48 | 20.91 | 20.66 |

Tabella 2.E.2 - Verifica dello stato di esercizio: tempo di ritorno 200 anni.

| tempo [s] | Q monte sfioratore [m³/s] | Q valle sfioratore [m³/s] | Q valle sfioratore sicurezza [m³/s] |
|----------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|
| 354.59 | 9.65 | 9.07 | 5.58 |
| 821.64 | 10.55 | 9.56 | 9.58 |
| 1297.86 | 10.65 | 9.62 | 9.66 |
| 1774.69 | 10.55 | 9.57 | 9.57 |
| 2251.70 | 10.53 | 9.56 | 9.57 |
| 2729.18 | 10.51 | 9.55 | 9.54 |
| 3206.46 | 10.51 | 9.55 | 9.54 |
| 3683.86 | 10.45 | 9.51 | 9.50 |
| 4160.22 | 10.49 | 9.53 | 9.52 |
| 4636.32 | 10.50 | 9.53 | 9.53 |
| 5112.42 | 10.52 | 9.54 | 9.36 |
| 5588.60 | 10.54 | 9.56 | 9.32 |
| 6063.19 | 12.48 | 10.24 | 9.73 |
| 6520.70 | 18.96 | 12.30 | 11.60 |

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| 6947.32 | 26.11 | 16.06 | 15.28 |
| 7347.66 | 33.29 | 19.66 | 18.45 |
| 7726.23 | 42.72 | 23.99 | 22.73 |
| 8087.62 | 51.53 | 28.26 | 27.39 |
| 8435.44 | 59.86 | 32.32 | 32.01 |
| 8773.14 | 68.83 | 36.63 | 36.59 |
| 9100.01 | 77.29 | 40.60 | 41.08 |
| 9420.00 | 84.66 | 44.12 | 43.81 |
| 9734.18 | 94.63 | 48.81 | 48.02 |
| 10041.22 | 104.17 | 53.29 | 52.52 |
| 10341.24 | 113.08 | 58.47 | 58.05 |
| 10634.54 | 121.57 | 63.44 | 61.10 |
| 10931.62 | 130.29 | 68.58 | 67.82 |
| 11226.97 | 138.23 | 73.29 | 72.48 |
| 11519.54 | 145.83 | 77.81 | 77.18 |
| 11809.58 | 153.40 | 82.33 | 81.68 |
| 12097.29 | 160.88 | 86.82 | 86.19 |
| 12382.83 | 168.25 | 91.25 | 90.64 |
| 12666.36 | 175.65 | 95.70 | 95.10 |
| 12953.88 | 182.26 | 99.70 | 99.21 |
| 13243.49 | 188.40 | 103.41 | 102.94 |
| 13531.36 | 194.49 | 107.10 | 106.64 |
| 13817.95 | 200.52 | 110.76 | 110.28 |
| 14103.30 | 206.69 | 114.50 | 114.02 |
| 14387.45 | 212.65 | 118.13 | 117.67 |
| 14670.47 | 218.25 | 121.54 | 121.16 |
| 14952.53 | 223.01 | 124.45 | 124.08 |
| 15233.75 | 227.72 | 127.32 | 126.96 |
| 15514.13 | 232.38 | 130.16 | 129.81 |
| 15793.64 | 237.23 | 133.14 | 132.79 |
| 16072.04 | 241.83 | 135.96 | 135.63 |
| 16349.75 | 246.34 | 138.72 | 138.42 |
| 16626.83 | 250.05 | 141.00 | 140.75 |
| 16903.36 | 253.67 | 143.23 | 142.97 |
| 17179.37 | 257.28 | 145.44 | 145.18 |
| 17454.86 | 260.83 | 147.62 | 147.37 |
| 17729.74 | 264.49 | 156.99 | 152.09 |
| 18004.27 | 266.70 | 153.34 | 151.11 |
| 18277.05 | 268.02 | 163.89 | 168.94 |
| 18547.52 | 269.32 | 174.94 | 188.57 |
| 18815.16 | 270.15 | 185.15 | 206.90 |
| 19078.80 | 271.73 | 194.75 | 221.98 |
| 19338.75 | 273.20 | 202.55 | 234.91 |
| 19596.38 | 273.72 | 208.57 | 244.46 |
| 19852.23 | 275.10 | 213.62 | 253.04 |
| 20106.57 | 273.58 | 216.62 | 258.32 |
| 20360.29 | 268.25 | 218.40 | 267.84 |
| 20613.70 | 263.83 | 218.66 | 261.14 |
| 20867.15 | 259.61 | 218.03 | 260.80 |
| 21120.94 | 255.27 | 216.35 | 257.96 |
| 21375.30 | 250.85 | 214.09 | 254.57 |
| 21630.38 | 246.34 | 211.40 | 251.25 |
| 21886.40 | 239.62 | 208.63 | 255.07 |
| 22143.44 | 230.00 | 204.97 | 244.21 |
| 22401.66 | 220.23 | 201.17 | 235.59 |
| 22661.72 | 205.70 | 185.78 | 206.91 |
| 22924.37 | 204.94 | 191.03 | 222.20 |

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| 23188.89 | 193.78 | 185.49 | 211.30 |
| 23455.93 | 184.44 | 179.45 | 210.26 |
| 23724.92 | 175.59 | 173.37 | 194.55 |
| 23995.24 | 165.63 | 166.50 | 190.01 |
| 24266.96 | 155.61 | 161.49 | 183.47 |
| 24540.46 | 147.59 | 143.98 | 162.09 |
| 24815.46 | 137.89 | 138.19 | 151.73 |
| 25092.07 | 128.88 | 141.02 | 150.14 |
| 25370.39 | 119.46 | 125.74 | 132.69 |
| 25650.85 | 111.21 | 127.70 | 133.90 |
| 25933.33 | 104.91 | 112.81 | 117.06 |
| 26217.77 | 92.29 | 114.32 | 119.95 |
| 26504.48 | 86.17 | 105.66 | 109.34 |
| 26793.12 | 81.08 | 98.17 | 101.96 |
| 27084.21 | 78.46 | 98.58 | 101.97 |
| 27377.82 | 75.13 | 92.37 | 92.52 |
| 27673.42 | 70.90 | 88.83 | 87.92 |
| 27971.89 | 61.62 | 77.77 | 78.85 |
| 28272.78 | 59.94 | 71.99 | 71.78 |
| 28576.12 | 57.79 | 76.09 | 79.14 |
| 28882.31 | 48.54 | 63.42 | 64.27 |
| 29182.16 | 49.76 | 65.12 | 67.27 |
| 29483.18 | 46.76 | 63.78 | 67.92 |
| 29780.34 | 42.41 | 53.45 | 52.50 |
| 30081.29 | 39.30 | 51.27 | 52.98 |
| 30388.04 | 37.12 | 47.20 | 46.23 |
| 30699.92 | 32.87 | 43.98 | 43.99 |
| 31012.36 | 32.41 | 42.29 | 42.35 |
| 31318.40 | 30.49 | 41.98 | 41.87 |
| 31624.91 | 26.13 | 38.22 | 38.30 |
| 31935.45 | 26.79 | 36.35 | 36.52 |
| 32247.65 | 22.66 | 34.56 | 34.12 |
| 32562.37 | 21.53 | 32.67 | 33.00 |
| 32881.14 | 20.36 | 30.77 | 30.66 |
| 33204.18 | 18.98 | 30.51 | 29.55 |
| 33532.75 | 18.76 | 30.11 | 28.53 |
| 33869.39 | 17.98 | 28.91 | 27.81 |
| 34214.89 | 15.35 | 26.58 | 25.71 |
| 34534.86 | 14.04 | 25.06 | 24.25 |
| 34846.99 | 12.76 | 23.61 | 22.82 |