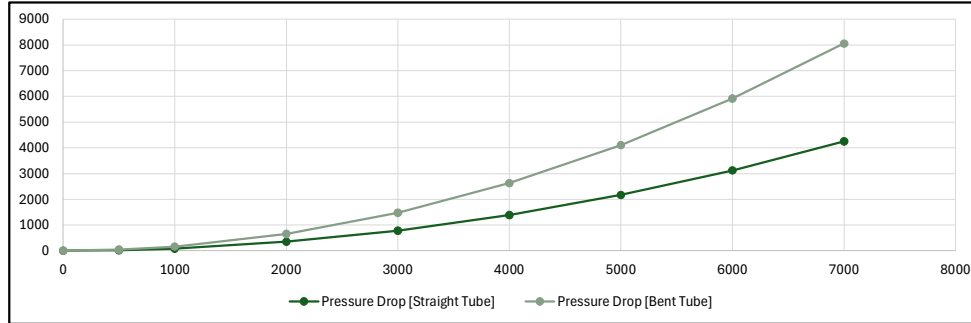


|                  |           |
|------------------|-----------|
| Medium           | Water     |
| WSO              | DN32      |
| Pressure [Pa] *  | 102000 Pa |
| Temperature [°C] | 20 °C     |

|                            |           |
|----------------------------|-----------|
| Inner diameter [mm]        | 34,20 mm  |
| Outer diameter [mm]        | 41,10 mm  |
| Dynamic viscosity [Pa.s]   | 0,001002  |
| Kinematic viscosity [m2/s] | 0,0000010 |
| Density [kg/m3]            | 9,982,050 |
| Tube length [mm]           | 1000 mm   |
| Number of bends [-]        | 1         |
| Bend radius [mm]           | 120 mm    |
| Bend angle [°]             | 180 °     |



| Flow rate [l/hour] | Flow rate [l/min] | Tube length [mm] | Flow velocity [m/s] | Reynolds nr. [-] | Friction factor [-] | Pressure drop [Pa] | Pressure drop [bar] | Pressure drop [kPa] |
|--------------------|-------------------|------------------|---------------------|------------------|---------------------|--------------------|---------------------|---------------------|
| 0                  | 0,00              | 1000             | 0,000               | 0                | 0,045               | 0                  | 0,0000              | 0,0000              |
| 500                | 8,33              | 1000             | 0,151               | 5154             | 0,065               | 22                 | 0,0002              | 0,0217              |
| 1000               | 16,67             | 1000             | 0,303               | 10308            | 0,065               | 87                 | 0,0009              | 0,0868              |
| 1500               | 25,00             | 1000             | 0,454               | 15461            | 0,065               | 195                | 0,0020              | 0,1953              |
| 2000               | 33,33             | 1000             | 0,605               | 20615            | 0,065               | 347                | 0,0035              | 0,3473              |
| 2500               | 41,67             | 1000             | 0,756               | 25769            | 0,065               | 543                | 0,0054              | 0,5426              |
| 3000               | 50,00             | 1000             | 0,908               | 30923            | 0,065               | 781                | 0,0078              | 0,7814              |
| 3500               | 58,33             | 1000             | 1,059               | 36076            | 0,065               | 1064               | 0,0106              | 1,0636              |
| 4000               | 66,67             | 1000             | 1,210               | 41230            | 0,065               | 1389               | 0,0139              | 1,3891              |
| 4500               | 75,00             | 1000             | 1,361               | 46384            | 0,065               | 1758               | 0,0176              | 1,7581              |
| 5000               | 83,33             | 1000             | 1,513               | 51538            | 0,065               | 2171               | 0,0217              | 2,1705              |
| 5500               | 91,67             | 1000             | 1,664               | 56691            | 0,065               | 2626               | 0,0263              | 2,6264              |
| 6000               | 100,00            | 1000             | 1,815               | 61845            | 0,065               | 3126               | 0,0313              | 3,1256              |
| 6500               | 108,33            | 1000             | 1,966               | 66999            | 0,065               | 3668               | 0,0367              | 3,6682              |
| 7000               | 116,67            | 1000             | 2,118               | 72153            | 0,065               | 4254               | 0,0425              | 4,2543              |

Pressure drop of the straight tube

| Flow rate [l/hour] | Flow rate [l/min] | Bend Radius [mm] | Bend angle [°] | r/d [-] | Resistance factor [-] | Pressure drop [Pa] | Pressure drop [bar] | Pressure drop [kPa] |
|--------------------|-------------------|------------------|----------------|---------|-----------------------|--------------------|---------------------|---------------------|
| 0                  | 0,00              | 120              | 180            | 3,5     | 1,697                 | 0                  | 0,0000              | 0,0000              |
| 500                | 8,33              | 120              | 180            | 3,5     | 1,697                 | 41                 | 0,0004              | 0,0411              |
| 1000               | 16,67             | 120              | 180            | 3,5     | 1,697                 | 164                | 0,0016              | 0,1643              |
| 1500               | 25,00             | 120              | 180            | 3,5     | 1,697                 | 370                | 0,0037              | 0,3698              |
| 2000               | 33,33             | 120              | 180            | 3,5     | 1,697                 | 657                | 0,0066              | 0,6574              |
| 2500               | 41,67             | 120              | 180            | 3,5     | 1,697                 | 1027               | 0,0103              | 1,0271              |
| 3000               | 50,00             | 120              | 180            | 3,5     | 1,697                 | 1479               | 0,0148              | 1,4790              |
| 3500               | 58,33             | 120              | 180            | 3,5     | 1,697                 | 2013               | 0,0201              | 2,0131              |
| 4000               | 66,67             | 120              | 180            | 3,5     | 1,697                 | 2629               | 0,0263              | 2,6294              |
| 4500               | 75,00             | 120              | 180            | 3,5     | 1,697                 | 3328               | 0,0333              | 3,3279              |
| 5000               | 83,33             | 120              | 180            | 3,5     | 1,697                 | 4108               | 0,0411              | 4,1085              |
| 5500               | 91,67             | 120              | 180            | 3,5     | 1,697                 | 4971               | 0,0497              | 4,9712              |
| 6000               | 100,00            | 120              | 180            | 3,5     | 1,697                 | 5916               | 0,0592              | 5,9162              |
| 6500               | 108,33            | 120              | 180            | 3,5     | 1,697                 | 6943               | 0,0694              | 6,9433              |
| 7000               | 116,67            | 120              | 180            | 3,5     | 1,697                 | 8053               | 0,0805              | 8,0526              |

Pressure drop of the bent tube

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