



A 650 m supply main to a pivot

A constant-flow pipeline sizing example at 34 L/s and 5.4 bar inlet pressure.

PROVISIONAL. This models a supply main, not a 650 m pivot lateral with distributed outlets.

Fluid / temperature	Water / 20 °C
Flow / number of mainlines	34 L/s / 1
Physical length / fittings	650 m / 10% equivalent-length allowance
Start pressure / elevation change	5.4 bar / 0 m
Target velocity / pipe condition	1.5 m/s / new and clean
Allowed pressure class	PN10
Returned PE100 size	DN200 SDR17, internal diameter 175.8 mm
Velocity / friction loss	1.40 m/s / approximately 0.85 m per 100 m
Calculated end pressure	4.80 bar

Use the remaining pressure correctly

Compare 4.80 bar with the actual pressure required at the pivot inlet. No required downstream pressure was supplied, so this example does not certify pivot operation. Elevation, surge, valves and the actual route still need checking.

PE100 and Iplex PVC families were considered; the selected PN10 constraint produced no PVC match. The PE100 result is generic. The Iplex logo identifies a manufacturer data reference, not an exclusive brand selection.

Reference: Iplex DN200 SDR17 PE100, 1000 kPa at 20 °C

About this sample

Curated sample prepared from the live Tenselo HYD-007 result exported on 14 September 2026. The layout is prepared for demonstration; it is not the unedited in-app PDF. Numerical results and material warnings are retained. Independent revalidation of the corrected calculator behaviour is pending.

Preliminary design aid. Confirm current manufacturer data, actual site conditions and applicable standards with a suitably qualified professional before procurement or construction. Manufacturer names and logos identify products or data references; they do not imply endorsement.