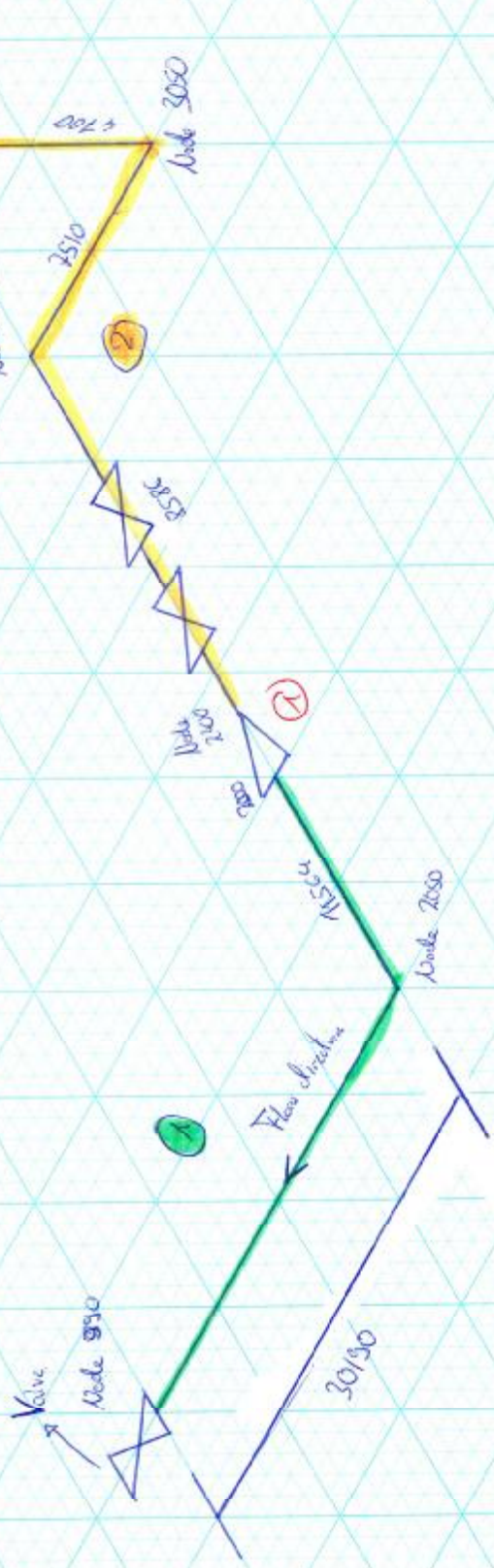




① Reducer $340 \times 30 \text{ mm} - 2032 \times 17.5 \text{ mm}$

Pipe Diameters: ① $340 \times 30 \text{ mm}$
 ② $2032 \times 17.5 \text{ mm}$



Fluid Properties:

$T = 20^\circ\text{C}$

$\rho = 1000 \frac{\text{kg}}{\text{m}^3}$

Mass flow = $2250 \frac{\text{kg}}{\text{s}}$

$C = 25575 \frac{\text{m}}{\text{s}}$

$a = 983.73875 \frac{\text{m}}{\text{s}}$

$\rho_0 = 3 \text{ bar}$

(Fluid velocity)

(speed of sound in the fluid)

Value: Closing time: 10 s

