$$\text{Node } i \in V \left(p_i, T_i, \begin{array}{c} \dot{m}_{ij} \leq 0 \\ T_{ij}^{start} \\ \hline T_{ij}^{end} \\ \dot{m}_{ij} \geq 0 \end{array} \begin{array}{c} \text{Edge } (i,j) \in E \\ p_j, T_j, \quad T_{ij}^{start} \\ T_{ij}^{end} \end{array} \right)$$

State variables in steady-state models of DH grids include node-bound variables such as flui
The sign of the edge-bound mass flows $\dot{m}_{ij}$ depends on the orientation with respect to the edge o
The localization of the temperatures at the inlet T^{start} and outlet T^{end} of the pipe depends on the sign of $\dot{m}_{ij}$ (for po