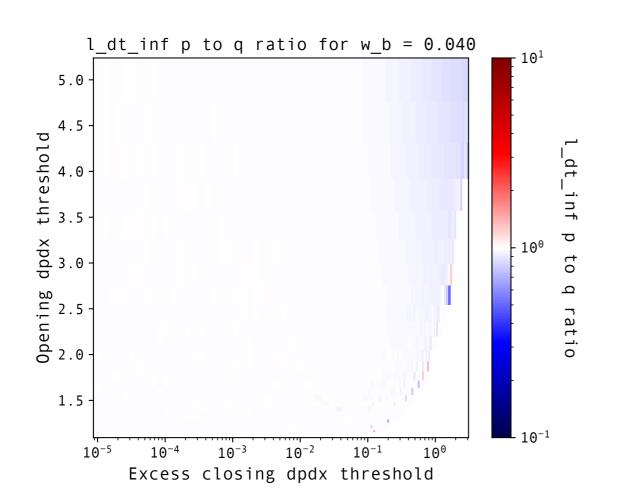
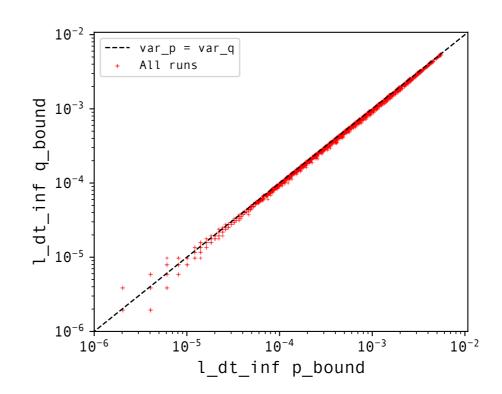
Dynamics of an isolated valve (b) Results: Q_bound v. P_bound: l_dt_inf





Observations:

In the investigated range of parameters, we observe consistent differences in the characteristics of the cycle between Q and P boundaries.

- 1/ All over, for fixed Q at the boundaries, loading periods are almost identical as for fixed P at the boundaries, even if very slightly longer for P boundaries
- 2/ All over, for fixed Q at the boundaries, unloading periods are longer than for fixed P at the boundaries. For unloading periods lower than 1e-2 though, we could consider that the loading/unloading values are very similar.

Dynamics of an isolated valve (c) Next runs q_inf for P_bound

Measuring the flux at dynamic equilibrium q_inf for fixed pressure at the boundaries could give us information about the effective permeability of a valve.

Measuring at which distance from the valve q_inf for a P_bound (resp. dP_inf for Q_bound) is maintained consistently could also give us information on somekind of effective width of the valve, or interaction distances.