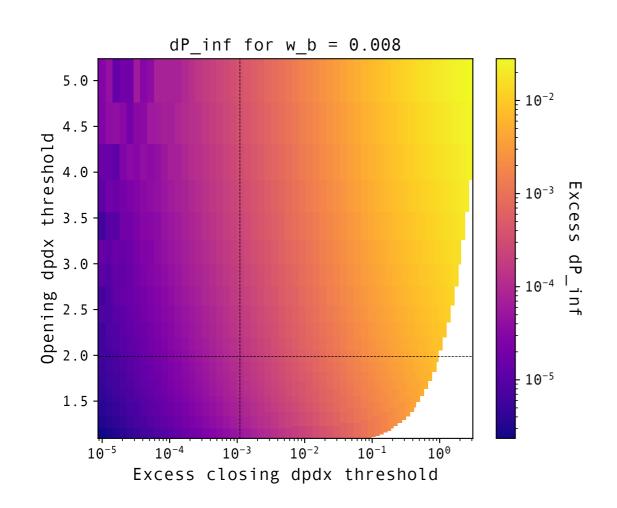
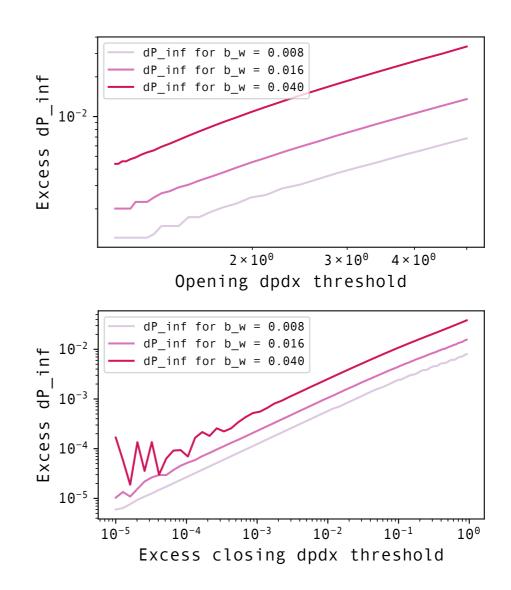
(b) Results: pressure diff. across the domain (dP_inf)



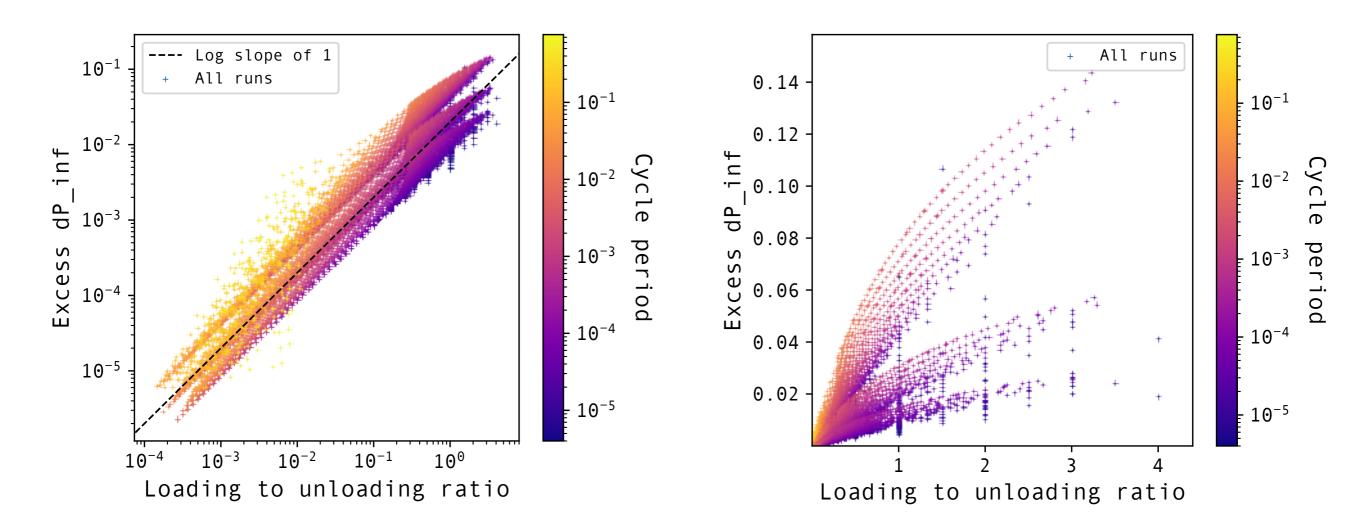


Observations:

1/ dP_inf grows with both closing and opening threshold: the more closed the valve is, the more it appears as a barrier of high permeability, thus letting the pressure increase on the sides of the domain.

2/ The dependency on w_b seems to be more linear this time, but still, the wider the barrier, the less permeable it appears.

(b) Results: pressure diff. across the domain (dP_inf)



Observations:

1/ When the valve is mostly open (I/ul ratio << 1), dP_inf is linearly related to the I/ul ratio.
2/ When the valve is mostly closed regime (I/ul ratio >> 1, not reached with our current set of parameters), dP_inf should asymptotically approach an equilibrium value, corresponding to a k_b_eff, closer and closer to k_b.