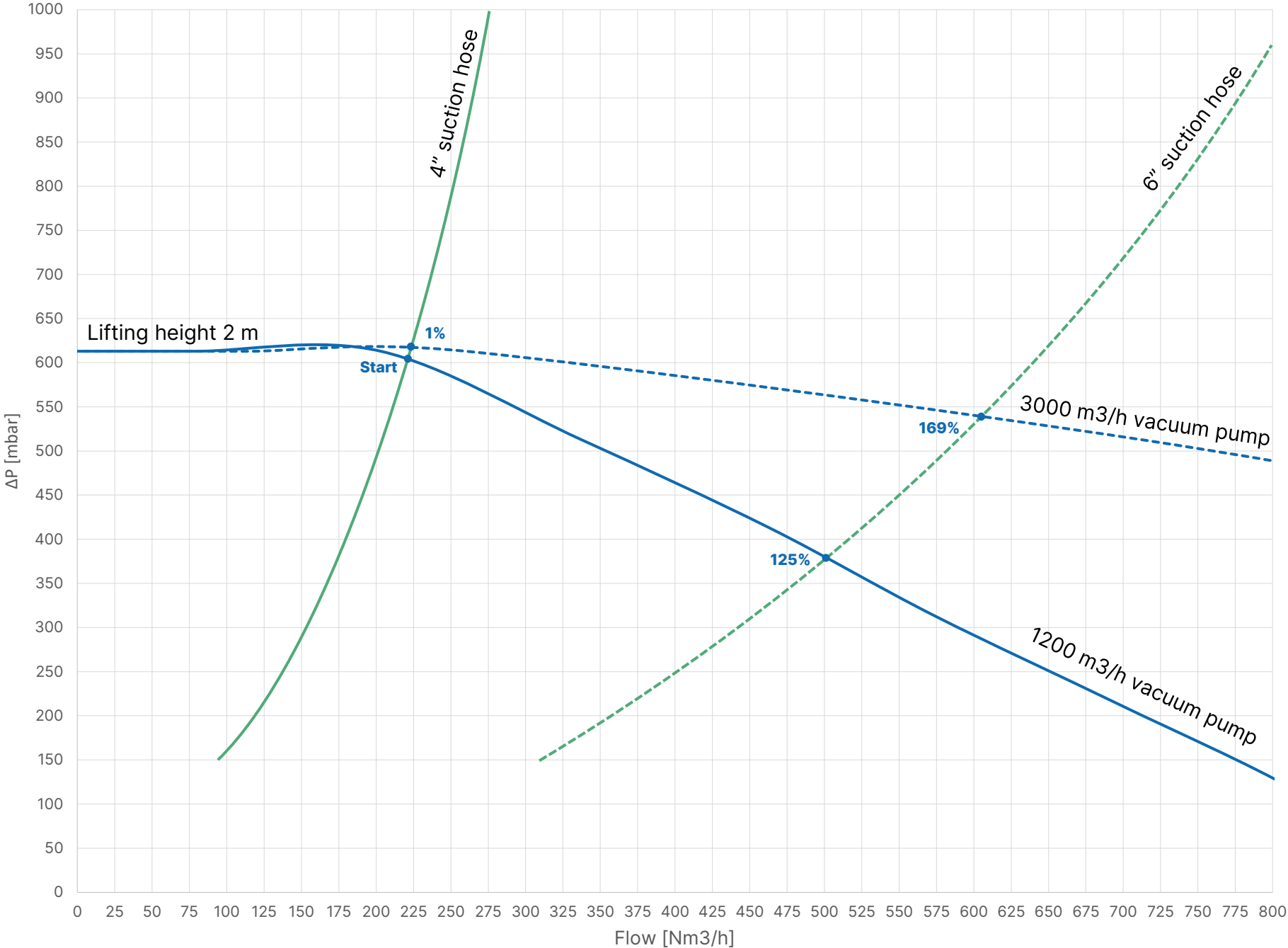


This diagram illustrates the different gains between choosing a bigger pump or a bigger suction hose, when filling a tank with liquid.

Case:
 Filling of a 20 m3 tank.
 Topic: Water
 Suction depth: 2 m.
 Suction hose length: 10m.

Start point is a 1200 m3/h pump in a 4" suction hose.
 The curves illustrates the gains in performance when choosing a 3000 m3/h pump, or, choosing a 6" suction hose.

Conclusion:
 The biggest gain is found from chancing the size of the suction hose.
 In this case a gain of 125% going from 4 to 6".
 Choosing a 3000 m3/h pump will only result in a 1% gain.



Performance in m3/h	1200 m3/h vacuum pump	3000 m3/h vacuum pump	Gains in %
4" suction hose	223 m3/h	225 m3/h	1%
6" suction hose	501 m3/h	605 m3/h	21%
Gains in %	125%	169%	

Performance in filling time (sec)	1200 m3/h vacuum pump	3000 m3/h vacuum pump	Gains in sec
4" suction hose	323 sec	320 sec	3 sec
6" suction hose	144 sec	119 sec	25 sec
Gains in sec	179 sec	201 sec	