- 1. A dilute hydrochloric acid solution is to be pumped from a Mixing Tank 1 to a Reactor Tank 2. What power must be delivered by the pump assuming 100% efficiency. SHOW ALL WORK.
  - The top surface of the Reactor Tank 2 is 10 m above the Mixing Tank 1.
  - The pressure in Mixing Tank 1 is P<sub>2</sub> = 1 atm
  - The pressure in Reactor Tank 2 is P<sub>2</sub> = 4 atm
  - The piping is 4 in. nominal size diameter schedule 40. (Disser = 0.102 m)
  - In the pipes, the hydrochloric acid solution flows at:
    - A velocity of 0.7 m/s
    - A volumetric flow rate of 5.672 x10<sup>-3</sup> m<sup>3</sup>/s
  - Assume smooth pipe.
  - The effective length, L<sub>e</sub>, of all piping plus fittings, valves, contractions and expansions is 100 m.



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# **Mechanics 1 Exam Solutions**

**Tobias Bleicker** 

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