



Problem 2

A piston moves without friction in a cylinder of section S_1 and diameter $d_1 = 4 \text{ cm}$ filled with water. The piston is pushed by a force F of intensity 62.84 Newtons at a constant speed V_1 . The fluid can escape towards the outside by a cylinder of section S_2 and diameter $d_2 = 1 \text{ cm}$ at a speed V_2 , pressure $P_2 = P_{\text{atm}} = 1 \text{ bar}$.

S_1
 $d_1 = 4 \text{ cm}$
 $\rho = 1000 \frac{\text{kg}}{\text{m}^3}$
 $F = 62.84 \text{ N}$
 $d_2 = 1 \text{ cm}$
 proj'x

$P_1 \propto F, P_0, (d_1)$

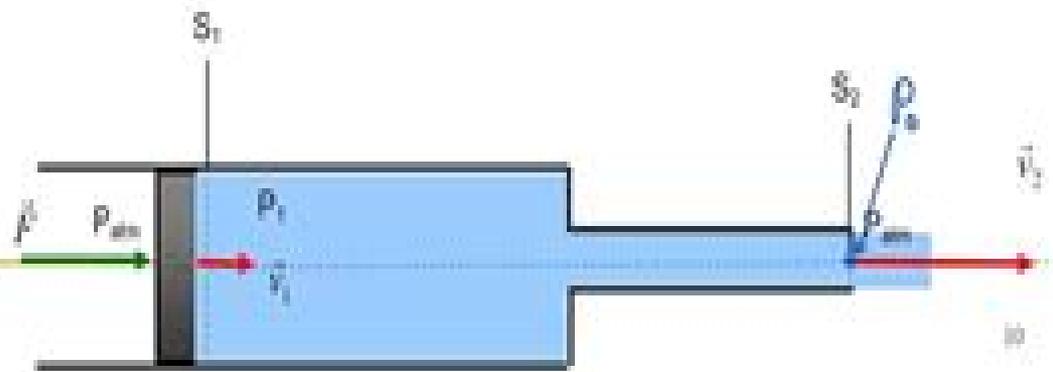


$\sum \vec{F}_x = \vec{F}_0 + \vec{F} + \vec{F}_w = m\vec{a} = \vec{0} \quad (v = \text{const})$

$F + F_0 - F_w = 0$
 $F + P_0 \times S_1 - P_1 S_1 = 0$

$$P_1 = \frac{F + P_0 \times \pi \left(\frac{d_1}{2}\right)^2}{\pi \left(\frac{d_1}{2}\right)^2}$$

- 1) Determine the pressure P_1 of the fluid at the level of section S_1 as a function of F , P_{atm} and d_1 .
- 2) Determine V_2 as a function of P_1 , P_{atm} and d_1 .



Fluid Mechanics And Dynamics Problem Solver

L Darling-Hammond



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