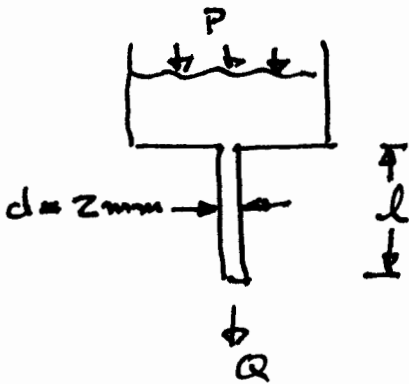


7.6



Eq. 7.16:

$$Q = \frac{\pi R^4}{8\mu} \left(\frac{\Delta P}{\Delta L} \right)$$

$$\rightarrow \mu = \frac{\pi R^4}{8Q} \cdot \frac{\Delta P}{\Delta L}$$

can use
$$\frac{\Delta P}{\Delta L} = \frac{\Delta P (L=20) - \Delta P (L=5)}{(20 \times 10^{-3} - 5 \times 10^{-3})}$$

McCrum prob. 7.6					
	R(m) =	0.001			
Q	$\Delta p_{20}(\text{MPa})$	$\Delta p_{5}(\text{MPa})$	dp/dL	$\mu(\text{Pa}\cdot\text{s})$	
2.00E-07	4.006	1.502	166.9	327.8	
4.00E-07	5.599	2.100	233.3	229.0	
8.00E-07	7.826	2.935	326.1	160.1	
			0.005		