Ok

Equations for flow in a packed capillary

Linear velocity = $\frac{P d_p^2 \varepsilon^2}{180 \eta L (1 - \varepsilon)^2}$ Dead time = : Linear Velocity Column volume = $L\pi r^2 \varepsilon$

$$=rac{P\,d_p^{\ 2}arepsilon^2\,\pi\,r^2}{180\,\eta\,L(1-arepsilon)^2}arepsilon$$
 where P is pressure (dynes/cm²), d_p is the diamete

Vol Flow Rate = (Linear Velocity) $(\pi r^2)(\varepsilon)$

where P is pressure (dynes/cm2), d, is the diameter of the packing particles (cm), ε (epsilon) is interparticle porosity, r is the column radius (cm), η (eta) is viscosity (poise), and L is column length (cm)