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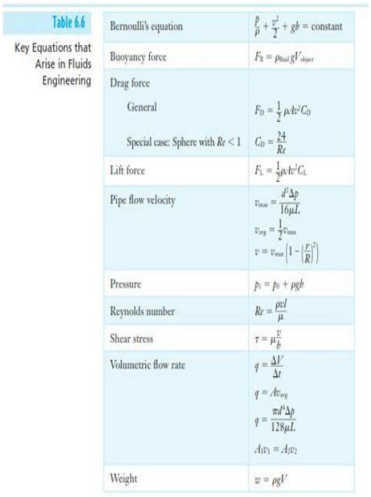

Table 6.6 Key Equations that Arise in Fluids Engineering

Bernoulli's equation	$\frac{p}{\rho}+\frac{v^2}{2}+gh=\text{constant}$
Buoyancy force	$F_B=\rho_{\text{fluid}}gV_{\text{object}}$
Drag force	
General	$F_D=\frac{1}{2}\rho v^2 C_D$
Special case: Sphere with $Re<1$	$C_D=\frac{24}{Re}$
Lift force	$F_L=\frac{1}{2}\rho v^2 C_L$
Pipe flow velocity	$v_{\max}=\frac{d^2\Delta p}{16\mu L}$ $v_{\text{avg}}=\frac{1}{2}v_{\max}$ $v=v_{\max}\left(1-\left(\frac{r}{R}\right)^2\right)$
Pressure	$p_1=p_t+\rho g h$
Reynolds number	$Re=\frac{\rho v l}{\mu}$
Shear stress	$\tau=\mu\frac{v}{h}$
Volumetric flow rate	$q=\frac{\Delta V}{\Delta t}$ $q=Av_{\text{avg}}$ $q=\frac{\pi d^4\Delta p}{128\mu L}$ $A_1v_1=A_2v_2$
Weight	$w=\rho g V$

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