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pressure consider a small cylinder of
fluid at rest as shown in figure 3 1 the
cylinder has a length l and a cross
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the axis of the cylinder must be equal
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stress must deform and undergo motion
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stress on a fluid element or at a point is
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perpendicular the surface a particle underwater will feel the same pressure from all directions pressure increases linearly with depth $p = p_0 + \rho g h$ $p = p_0 + \rho g h$ assumes a constant density and thus is valid only for incompressible

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