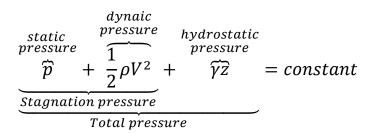
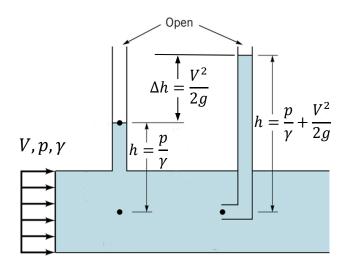
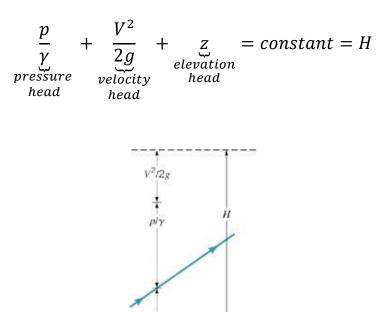
The Bernoulli equation:

1) In a "pressure" form



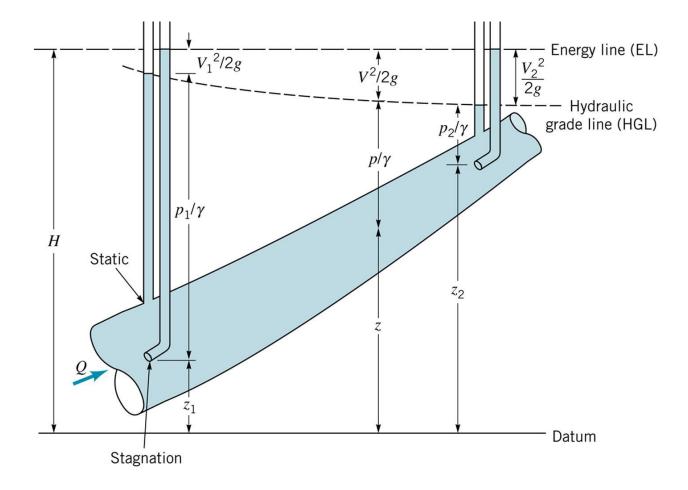


2) In the "head" form:



The Energy Grade Line (EGL) and the Hydraulic Grade Line (HGL): A geometrical interpretation of a flow

$$EGL \equiv \frac{p}{\gamma} + \frac{V^2}{2g} + z$$
$$HGL \equiv \frac{p}{\gamma} + z$$

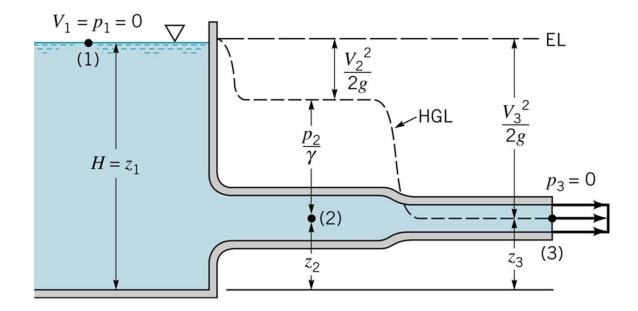


Note:

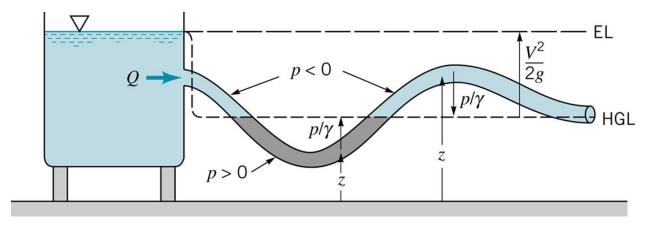
- Stagnation tube: Measurement of the total head (energy) of the flow.
- Pressure tap: Measurement of the sum of the pressure head and the elevation head.

$$EGL = \frac{p}{\gamma} + \frac{V^2}{2g} + z$$
$$HGL = \frac{p}{\gamma} + z$$

Example 1:



Example 2:



 $\frac{p}{\gamma} = HGL - z$