

## Relationship between Pressure Drop and Flow Rate

### 👁️ Laminar flow

- Smooth and orderly
- Describes flow in reservoir

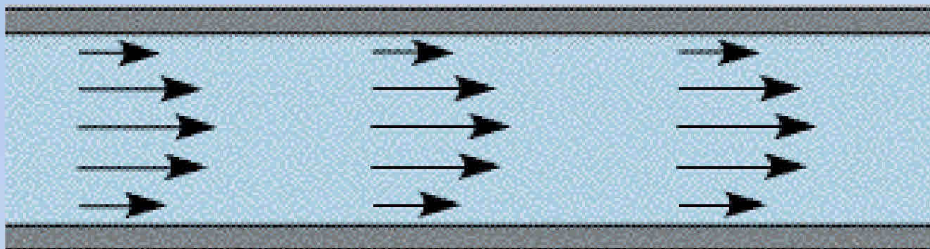
$$Q = \kappa \delta p$$

### 👁️ Turbulent flow

- Chaotic motion
- Describes flow in wellbore, BOP, capping stack

$$Q = k \sqrt{\delta p}$$

Laminar



Turbulent

