

Self Assessment

1. Gas conduction and convection are minimized by having _____.
2. The degree of vacuum is decided by _____.
3. In a _____ flow, mean free path (λ) is larger than the dimensions of the system.
4. _____ is used to categorize, pipe flow regimes in fluid mechanics.
5. _____ is used to categorize, flow regimes in vacuum.
6. 1 Torr = _____.
7. _____ equation correlates pressure drop and mass flow rate.
8. The intermediate flow regime between continuum and free molecular flows is _____.

Answers

1. Vacuum
2. Mean free path
3. Free Molecular Flow
4. Reynold's Number
5. Knudsen Number
6. 133.28 Pa
7. Poisseuille's
8. Slip Flow