

# Liquid Chromatography

- 1. Introduction and Column Packing Material**
- 2. Retention Mechanisms in Liquid Chromatography**
- 3. Method Development**
- 4. Column Preparation**
- 5. General Instrumental aspects**
- 6. Detectors**

**(Chapter 4 and 5 in The essence of chromatography)**

# Column Preparation

**1. Column is the central part of liquid chromatography.**

**2. Column Packing Methods**

**A. Dry-Packing Procedures: for rigid particles with diameter greater than 20  $\mu\text{m}$ .**

**B. Down-Fill Slurry Packing: for rigid particles with diameter smaller than 20  $\mu\text{m}$ .**

**C. Up-Fill Slurry Packing: for rigid particles with diameter smaller than 20  $\mu\text{m}$ .**

# Down-Fill Slurry Packing

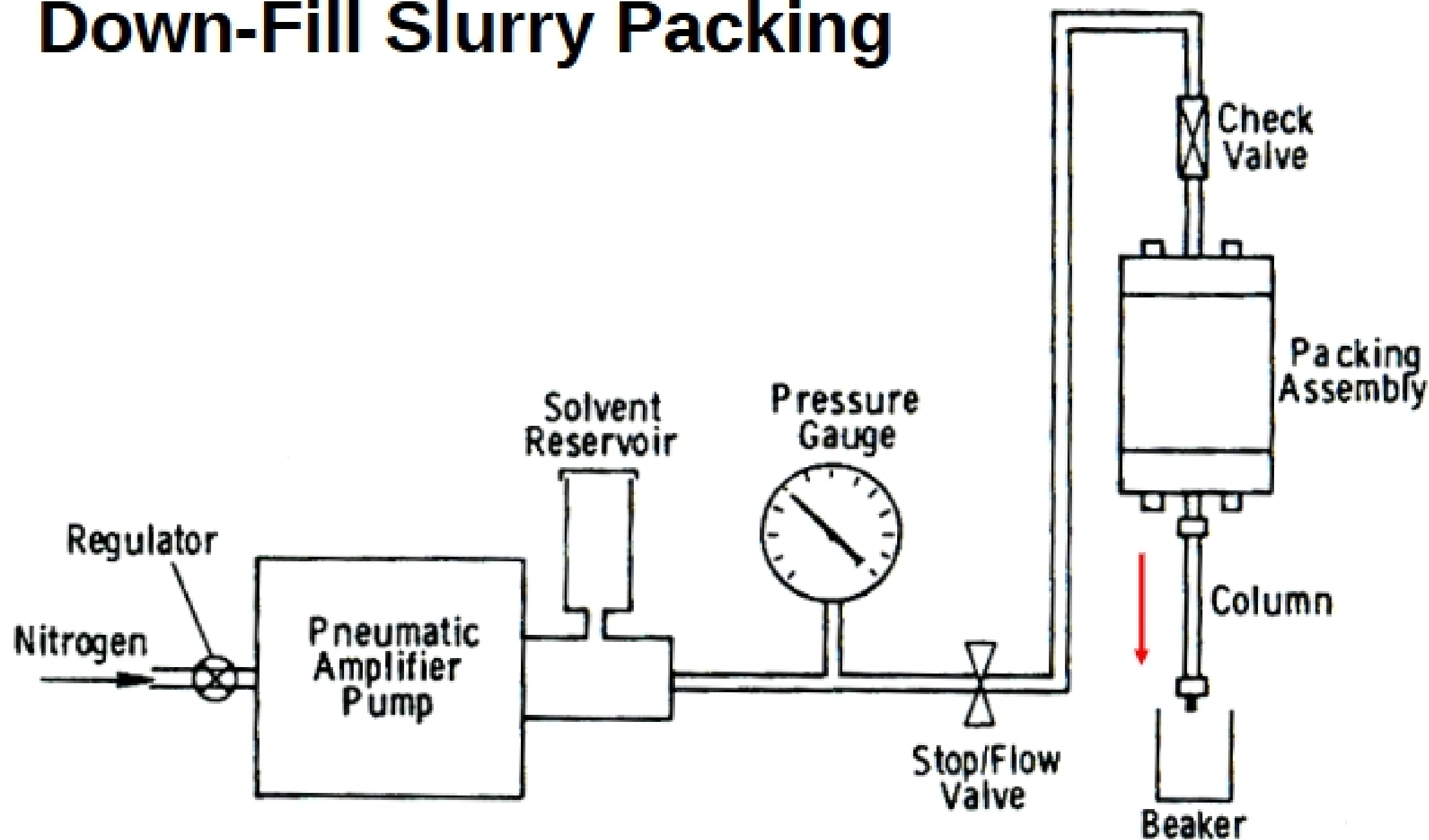


Figure 4.31. Down-fill slurry packing apparatus. (From ref. [658]. ©Elsevier)