Overview of the
Types of Valves
Types of Valves:

1. Directional Control Valves
2. Pressure Control Valves
3. Flow Control Valves.

Directional Control Valves:
- The determine the path through which a fluid traverses a given circuit.

- check value, b) shuttle value
- c) two way   d) three way  e) four way directional control valves.

Method of Actuation:

1. Manual (e.g., hand)
2. Mechanical (e.g., CAM) or roller
3. Pilot
4. Solenoid
2 Pressure Control Valves:

... protect the system against over-pressure

which may occur due to excessive actuator load or due to closing of a valve.

(a) Pressure relief
(b) Pressure reducing
(c) Sequence unloading
(d) Counter-balance valves.

3 Flow Control Valves.

To control the flow rate in various lines of a hydraulic circuit.

(e.g., controlling the speed of a hydraulic cylinder).

Two types: non-compensated and pressure compensated.