## SYMBOLIC REPRESENTATION OF DIRECTIONAL CONTROL VALVES

Directional Control values are mainly used to change the direction of flow path of working medium or signal medium. They are used for admitting or exhausting working medium to the cylinder or from the cylinder for actuation of the cylinder. Also used to start or stop the pneumatic signal as well as for signal processing

Directional control valves are designated as per the following functions:

Number of ports on the valves
Number of switching positions
Method of actuation
Method of reset
Design and constructional features

## 3.1 Symbolic Representation of Directional Control Valves

Each Square represents a swithching position	
Number of Squares represents number of swithching positions	
Lines indicates the arrow path. Arrows indicates the direction	
Shut off positions are indicated by lines drawn at right angles	Ţ
Connections to the valves are indicated by short lines drawn out side the boxes	

Figure 3.1 Symbolic Representation of Directional Control Valves

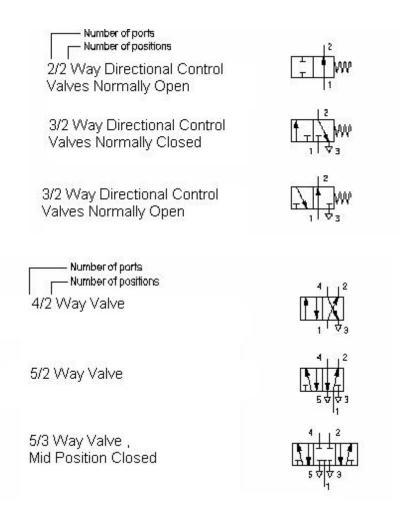


Figure 3.2 Symbolic Representation of Directional Control Valve

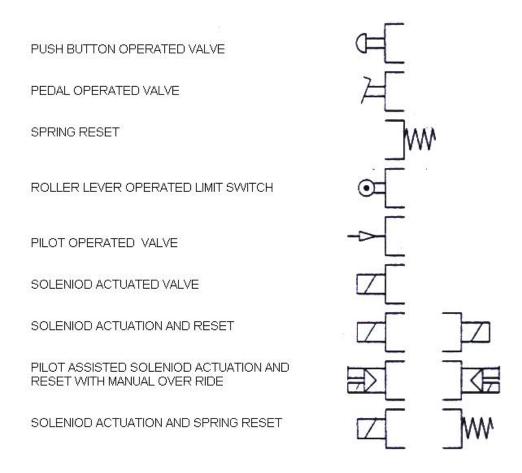


Figure 3.3 Method of Actuation and Reset of Directional Control Valves

Source : http://elearningatria.files.wordpress.com/2013/10/hydraulics-and-pneumatics.pdf