

Linear actuators

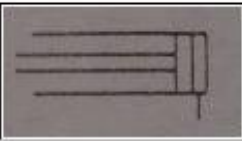
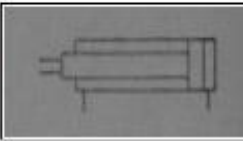
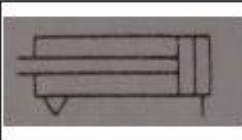
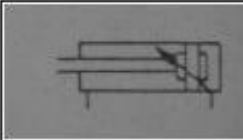
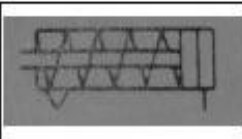
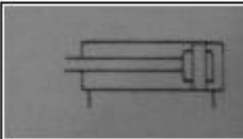
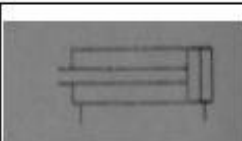
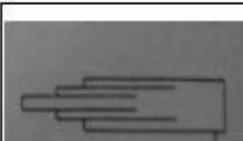
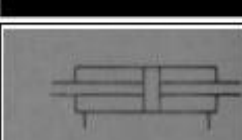
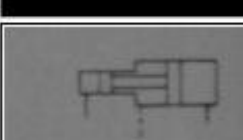
Single acting ram (Load returns piston)		Differential actuator with oversize rod	
Single acting actuator (Load returns the piston)		Piston with adjustable cushioning	
Single acting actuator (Spring returns the piston)		Piston with fixed end cushioning	
Double acting actuator (Piston forced both in and out)		Telescopic single acting actuator	
Double acting actuator with double ended rod		Pressure intensifier	

Figure 1- Actuators

Valve control

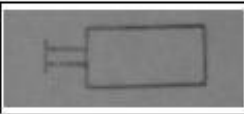
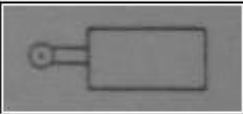

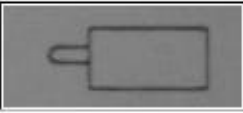
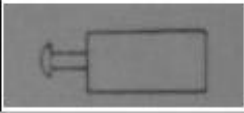
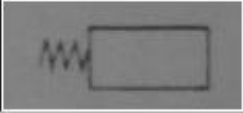
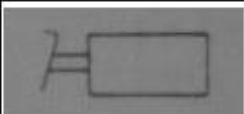
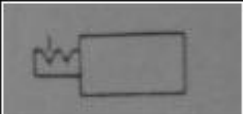
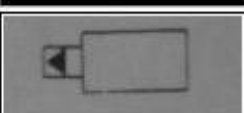
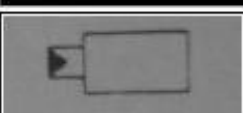
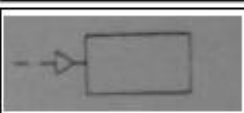
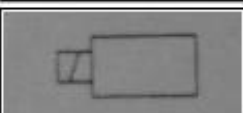
Udefined control		Cam roller	
Hand Lever		Plunger	
Push Button		Spring	
Foot Lever		Detent	
Pressure Relief		Pressure Applied	
Pneumatic Pilot		Hydraulic Pilot	

Figure 2 - Pneumatic Valve Control

Directional control valves

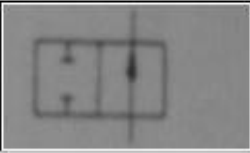
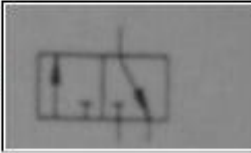
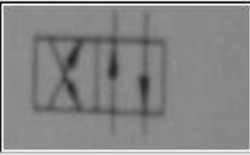
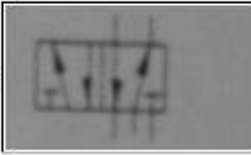
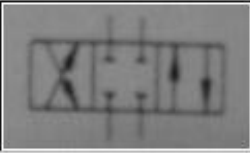
2 position, 2 port valve		2 position, 3 port valve	
2 position, 4 port valve		2 position, 5 port valve	
3 position, 4 port valve with fully closed centre			

Figure 3 - Directional Control Valves

Flow control

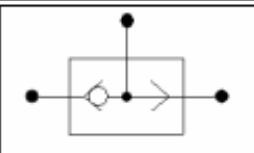
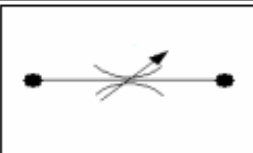
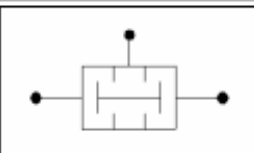
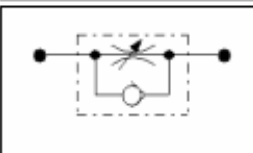
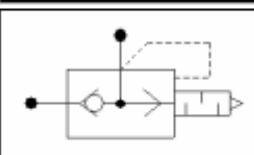
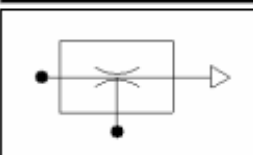
OR valve		Adjustable flow control	
AND valve		One way flow control valve	
Rapid exhaust valve		Vacuum valve	

Figure 4 – Flow Control