Fluid Systems SPH4C

The hydraulic press is an example of a	a fluid	, an arrangement of
components used to		in a fluid.
The initial source of energy for the sys	tem can be an electri	c motor or other device that drives
a (for liquids) or a		(for gases).
The symbol for a d	compressor or a fixed	l-displacement single direction
hydraulic pump (th	ne arrow shows the di	irection of the fluid).
The pump or compressor transforms _		energy to fluid energy, and
then the tran	nsforms the fluid energ	gy back to mechanical energy.
The symbol for a s	single acting	, the actuator for the
hydraulic press yo	ou constructed.	
More Symbols		
Transmission lines (through which the	fluid travels)	
A continuous line is a		
A dashed line is a	or	-
A diamond is a fluid		
(filter, separator, lubricator, heat excha	inger)	
One square indicates a	control function	n
Two or three adjacent squares indicate	e a	control
The most commonly used directional of	controls are	.
Example: 3 ports / 2 positions		
A normally closed directional co		

A normally open directional control valve with 3 ports and 2 finite positions looks like:

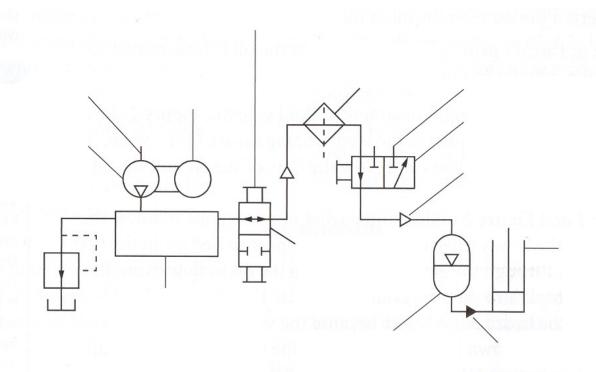
The general symbol for a manual control is (without showing the control type)

a pushbutton

a lever

a foot pedal

Example System: A Car Hoist



When the hoist is lowered,

the valve's _____ changes:

