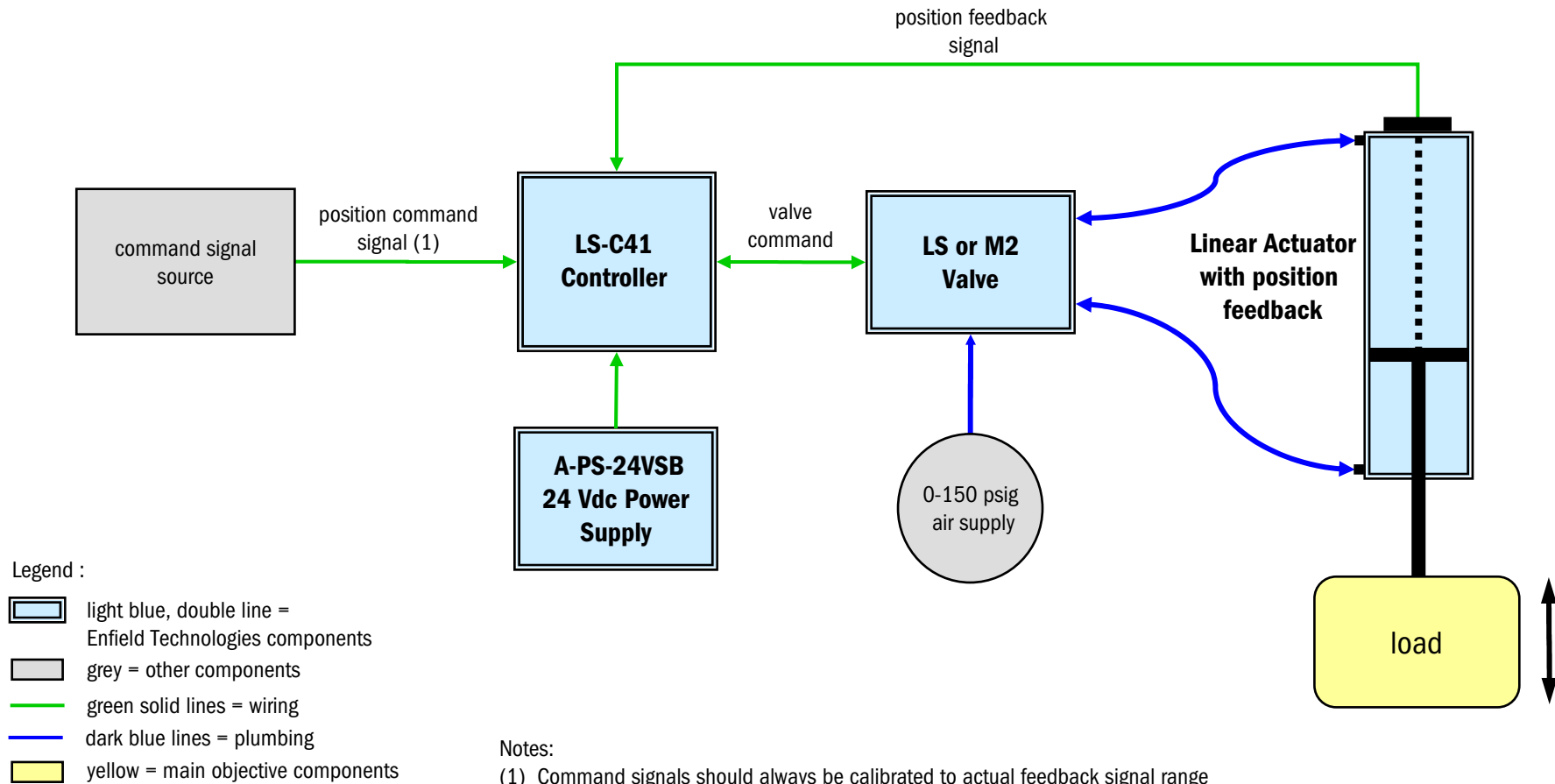




basic position control system

Basic Position Control System

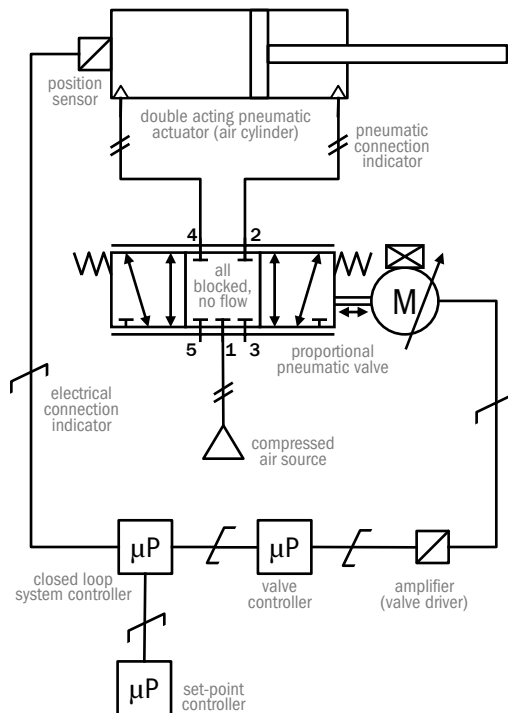
Closed-loop Position Control System (using LS-C41)



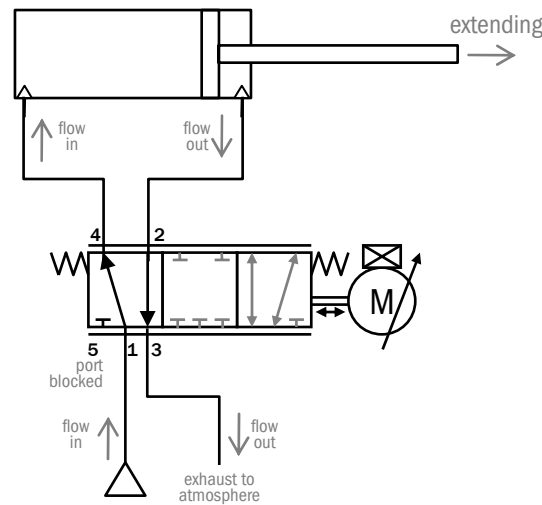
ISO Valve Diagram Tutorial: Switching in Circuit Diagram

Positioning systems are generally easy to understand

Scenario 1: system at rest in stable state with actuator extended 2/3

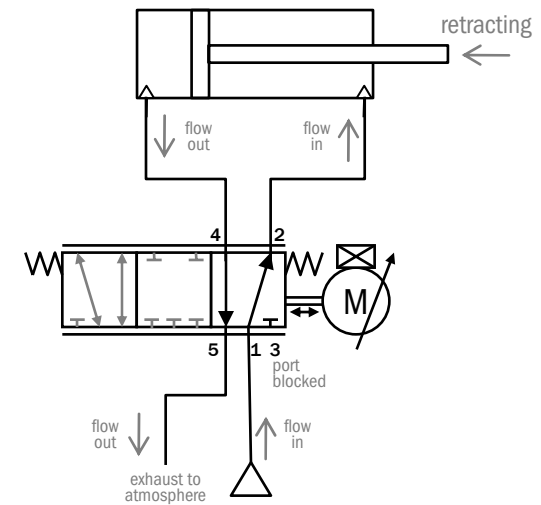


Scenario 2: shift valve to extended actuator further



Outside control loop same as Scenario 1

Scenario 3: shift valve to retract actuator

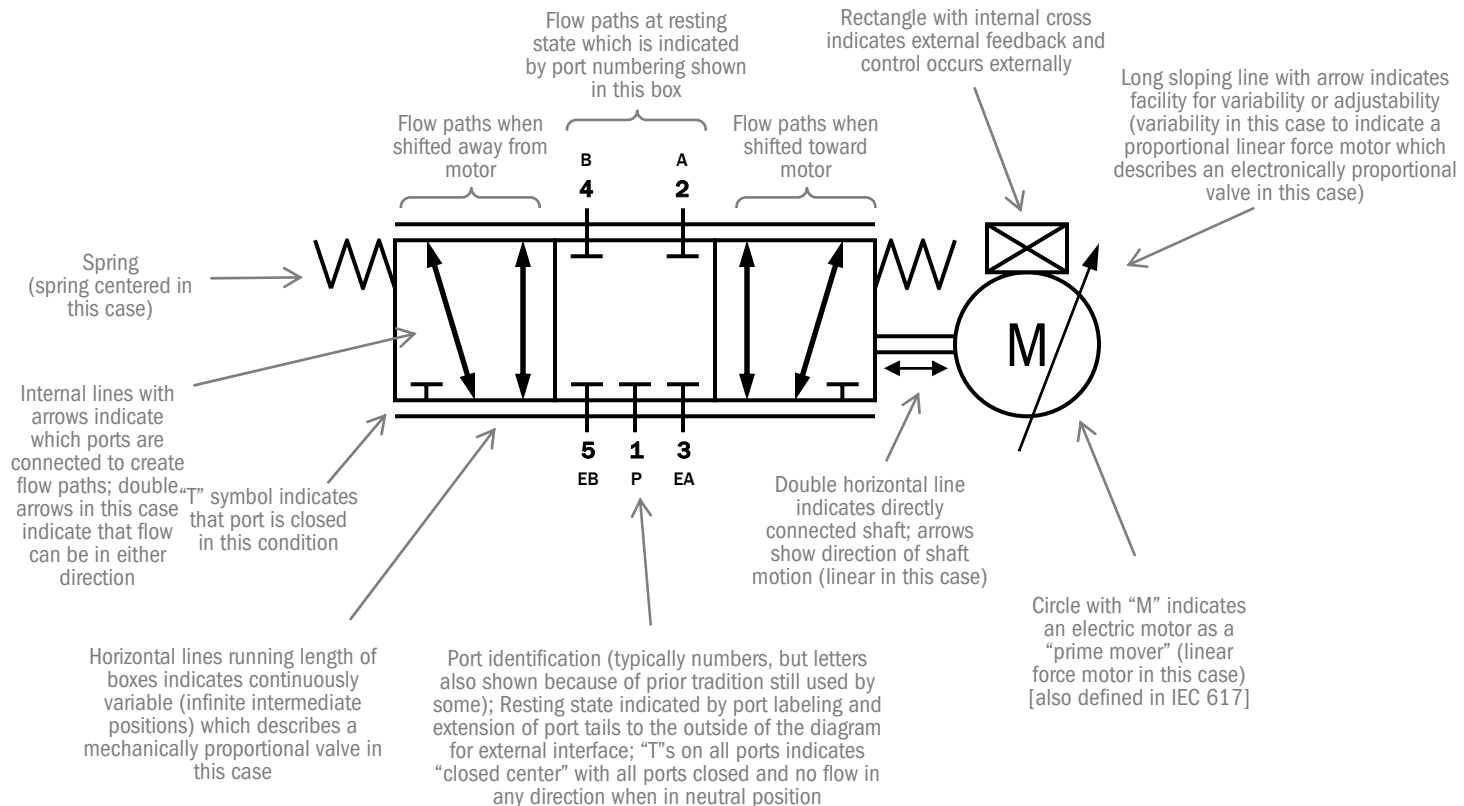


Outside control loop same as Scenario 1

- ISO 1219 symbols are often used in fluid power circuit schematics, specialty design and simulation software, and as symbol libraries for CAD software
- When shown in a simulation of a circuit, the symbol is shifted to indicate its active state as in example
- Example above shows a basic pneumatic positioning system (electronics shown only in initial scenario; unused flow paths grayed-out for clarity)

ISO Valve Diagram Tutorial: Symbol Description

- ISO 1219 valve diagrams show how the valve functions in its primary states of actuation.
- The location of the port labels indicates the valve's natural neutral state (un-actuated or resting state). (Port labels are typically numbers, but prior industry practice was to use letters that assume use of the valve for a positioning system using a double acting air cylinder.)
- ISO diagrams do not necessarily represent actual construction which may be too complex for logic circuit design purposes. (But in many cases, the ISO diagrams for Enfield Technologies valves are good approximations of actual construction).



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