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the beauty of ladder logic programming is that it translates the technician s understanding of traditional relay control circuits into a virtual form where contacts and coils interact to perform practical control

thus a cascade control system consists of two feedback control loops one nested inside the other a very common example of cascade control is a valve positioner which receives a command signal

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proportional only control may allow for more simple algorithms but it leads to weaknesses in steady state accuracy with low gain and oscillations from overshoot with high gain

electric control valve actuators are another class of actuator design absolutely requiring some form of positioner system because an electric motor is not aware of its own shaft position in order that it

when the control valve is in the fully shut position its c v value will be zero thus it should be understood that c v is truly a variable not a constant for any control valve even though

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