

Reduce Energy Costs with Burkert Digital Valve Positioners

Burkert Fluid Control Systems

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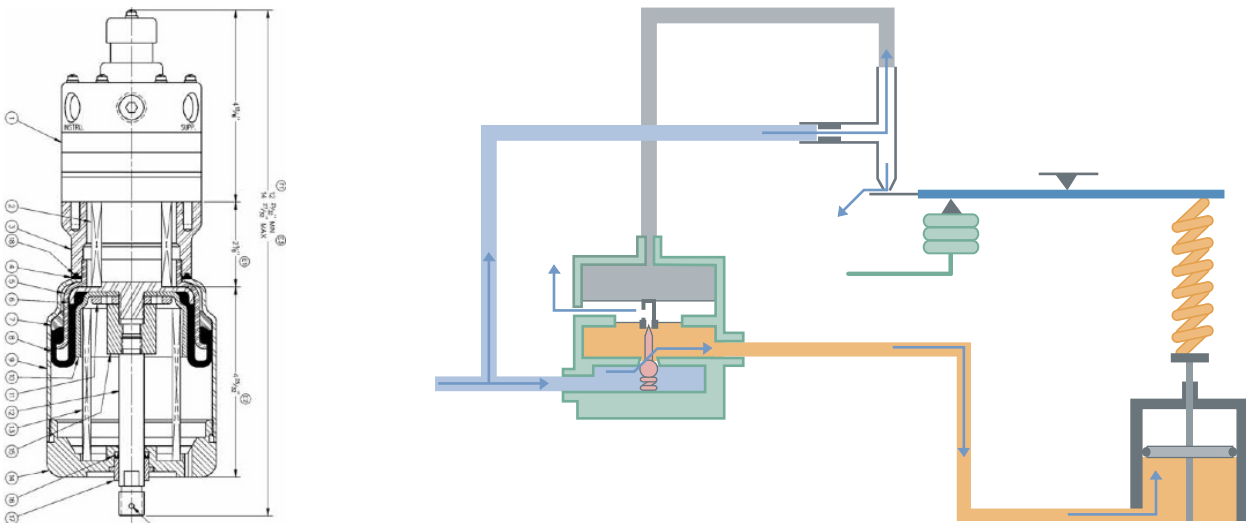


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FLUID CONTROL SYSTEMS

Burkert Digital Valve Positioner

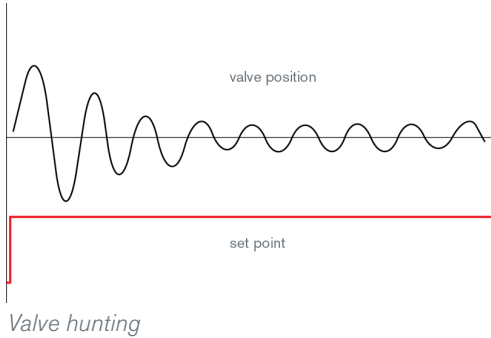
Save air and money with our digital valve positioner!

Traditional pneumatic top mount valve positioners with I/P transducers have remained a staple in the food and beverage industry for almost 70 years. The advantage has been the durability of the all mechanical system in an environment subjected to constant washdown. The downside to this device is the numerous valves and springs inside the housing and the fact that this device is designed to leak air continuously.



This schematic view shows the leak paths in a pneumatic positioner

| Losses from P/P positioner | |
|--|-----------------------|
| rated loss at 100 psi air pressure | 5.0 scfm |
| @ 8750 operating hrs/year | 2,625,000 scf |
| Losses from valve hunting (typical 2" valve) | |
| loss per cycle | 0.21 scf |
| @ 6 strokes/min and 8750 operating hrs/year | 683,804 scf |
| Losses from I/P transducer | |
| rated loss at 30 psi air pressure | 0.2 scfm |
| @ 8750 operating hrs/year | 105,000 scf |
| Total costs | |
| total air usage | 3,413,804 scf/year |
| electricity cost @ \$0.06/kwh | \$0.06 per kwh |
| ancillary air costs - air driers, etc | \$0.25 1000 scf |
| Total costs per year | \$978 per year |
| These are the losses for an average system. | |



I/P Transducer

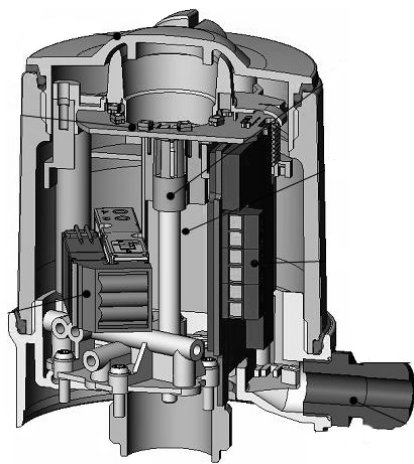
The solution ... transition from pneumatic positioner to digital positioner

The Burkert Digital Valve Positioner eliminates these air losses. The correct amount of air is injected into the actuator chamber so that the valve is set at the required position.

Electronic solenoids control the air flow in and out of the actuator chamber. The firing of the solenoids is controlled by a sensing puck in conjunction with an internal PID controller.



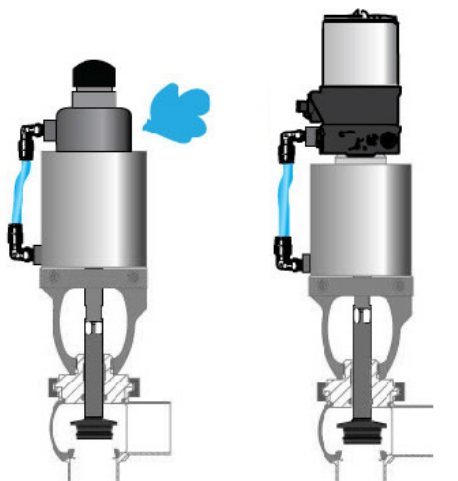
- Pneumatic positioners bleed air continuously ... digital positioners use no air once set-point has been achieved
- Electronics enclosure is pressurized with the instrument air in order to keep moisture out
- Adaptable to most linear actuated valves



Internal View



Mounting



Upgrade from pneumatic → To digital control