D400 Digital Positioner

The AVCO D400 is a microprocessor based, “intelligent” instrument that can be mounted to rotary or linear pneumatic actuators for accurate positioner control. This unit, while sophisticated in its accuracy and performance, is simple to mount, calibrate, and with good filtered air and proper maintenance, can provide very accurate and trouble-free service for many years. Available with Hart, Foundation Fieldbus, or Profibus communication, the D400 range of applications and communications meets the latest industry standards. The “efficiencies” of the D400 are not only in its microprocessor based technology and accuracy, but also in the pneumatic air handling where air consumption is kept to a very minimum.

Feature and Benefits

- Microprocessor based valve positioner
- User friendly, menu driven programming with LCD Display-multilingual.
- Local push button configuration—no handheld device necessary
- Low air consumption and proven dependable mechanical design
- Modular design—available with position feedback, micro switches and “Fail Freeze” options—rotary or linear mounting.
- Aluminum Housing—Nema 4X IP 65 Enclosure—Standard
- Atex-FM-CSA-IEC-Ex approvals available
Specifications

- Rotation: 25-120 degrees
- Stroke: .3 to 4” (longer strokes - POA)
- Max air supply: 90 PSI
- Connections: 1/4” NPT Air, 1/2” NPT Cable
- Air delivery: 6.0 SCFM, 90 PSI Supply
- Air consumption: .015 SCFM
- Ambient temperature: -40 to 185 °F
- Characteristic curve: linear, equal %, 1:25, 1:50 or 25:1 50:1 or user configure with 20 reference points
- Characteristic deviation: ≤ 0.5% from 0.3 to 10%
- Tolerance Band (sensitivity): adjustable
- Resolution (A/D conversion): 8000 steps
- Vibration influence: ≤ 1% up to 10 g and 20….Hz
- Sample rate: 20 msec
- Air supply: Must be free of oil, water, and dust to DIN/ISO 8573-1 pollution and oil contents according to Class 3 dew point 10 K below operating temperatures.

Explosion Protection

ATEX  EEx ia IIC T4/T5/T6 or EEx n II T6
FM Intrinsically Safe CL I-II-III, Div 1, Groups A to G
Non Incendive CL I-II-III, Div 2, Groups A to G
CSA Intrinsically Safe CL I, Div 1, Groups A to D
Non Incendive CL I, Div 2, Groups A to D
CSA Intrinsically Safe CL II, Div 1, Groups E to G
Non Incendive CL II, Div 2, Groups E to G

HOW TO ORDER

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<th>D400 Series Positioner</th>
<th>Type</th>
<th>Action</th>
<th>Connections</th>
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<td>S - Single Acting</td>
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<td>EX - Explosion Proof</td>
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<td>IS - Intrinsically Safe</td>
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<td>NI - Non Incendive</td>
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