AVCO
Alloy Valves and Control

POSITIONERS
D400 SERIES

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

3210 S. Susan St, Santa Ana, CA 92704 Tel (714) 427-0877 Fax (714) 427-6392 Website: www.avcovalve.com

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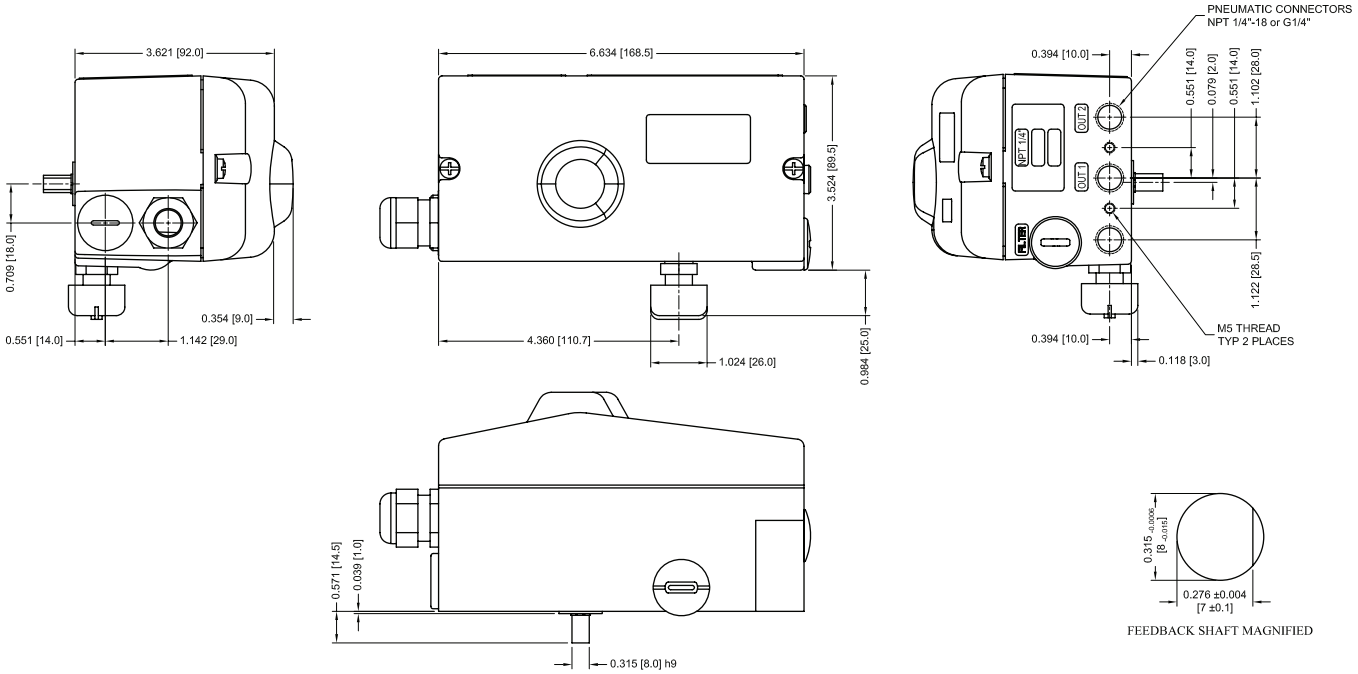

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
   DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS

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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
		CL II, Div 1, Groups E to G
	Non Incendive	CL I, Div 2, Groups A to D
		CL II, Div 2, Groups E to G

HOW TO ORDER

D400	-	S	N	D1	H	GB
Series	**Type**	**Action**	**Connections**	**Spindle**	**Communications**	**Options**
D400 Series Positioner	Blank - Standard	S - Single Acting	N - NPT	D1 - NAMUR	H - Hart	GB - Gauge Block with Gauges
	EX - Explosion Proof	D - Double Acting	G - Metric	DX - Linear	FF - Foundation Fieldbus	S - 2 Micro Switches
	IS - Intrinsically Safe				PA - Profibus	4/20 - 4-20 mA Transmitter
	NI - Non Incendive					FRC - Filter Regulator Coalescing
						FF - Fail Freeze

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