

VALVE ACCESSORIES & CONTROLS





VAC D400 Digital Positioner

WWW.VACACCESSORIES.COM 205-678-0507



VAC D400 Digital Positioner

The VAC D400 is a microprocessor based, "intelligent" instrument that can be mounted to rotary or linear pneumatic actuators for accurate positioner and/or process 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.

D400 Options



Features and Benefits:

- Microprocessor based valve positioner
- User friendly, menu driven programming with LCD Display
- Local push button configuration—no handheld device or PC necessary
- Low air consumption and proven dependable mechanical design
- Modular design—available with position feedback, micro switches and "Fail Freeze" options. Same unit for rotary or linear mounting.
- Aluminum Housing—Nema 4X IP 65 Enclosure—Standard—Electrostatically dipped varnish with stove-hardened epoxy resin.
- Unique adaptive control feature offers the ability to enhance valve/actuator package for maximum control without upsetting the process.
- ATEX-FM-CSA-IEC-Ex approvals available



Ordering Codes:

Digital Positioner	Action	Connections	Spindle	Communications	Options
D400	S-Single	N-NPT	D1-Namur	NO-No Communication	GB-Gauge block w gauges
D400 IS	D-Double	G-Metric	D2-1/2" square	H-Hart	S2-Micro Switches
(Intrinsically safe-non incendive)			D3-3/8" square	*FB-Foundation Fieldbus	4/20-Transmitter
**D400 EX			D4-round-linear	*PA-Profibus	FRC-Filter Regulator-coalescing
(Explosion Proof)			D5-double "d"		FC-Filter Coalescing
			Dx-linear standard		FF-Fail Freeze
Example: D400-S-N-D1-H-4/20					A-ATEX
*4/20 transmitter and s	G-ATEX/Gost				
** D400 EX not availab	PROX-NO				

PROX-NC

VAC D400 Approvals

The D400 digital positioner has approvals for the below agencies. The details and exact listings associated with these approvals are quite extensive. Even the listing between no communication and Hart units vs. Fieldbus and Profibus can be slightly different. We have a supplemental document, entitled D400 Approval Details on our website under the D400 documentation section.

All D400 unit's enclosure are Nema 4X IP 65, Electrostatically dipped varnish with stove-hardened epoxy resin.

D400 IS FM CSA Non-incendive ATEX/ GOST Russia GOST Ukraine ATEX	Intrinsically safe J.I 30005029 (3610, 3611) Certificate 1052414 Enclosure 4X, max 65°C II 2G EEx ib IIC T6 II 2G EEx ib IIC T6 II 2G EEx ia IIC T6 II 3G EEx ia IIC T6 II 3G EEx n A II T6	D400 EX FM Intrinsically safe Non-incendive Dust Ignition proof CSA ATEX/ GOST Russia GOST Ukraine	Explosion Proof HLC 8/02 3010829 4X, T5 max 82°C 4X, T4, max 85°C 4X, T5, max 82°C Certificate 1393820
	II 2 D IP 6X T 46°C	ATEX	II 2G EEx ib IIC T6
IECEx	Ex ib IIC T6	IECEX	EXIB IIC T6

Techinical Information

Rotation Rev 3: 25-120 degrees

Rotation Rev 5: 25-270 degrees Stroke: .4 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 Air consumption: ≤.015 SCFM

Ambient temperature -40 to 185° F

Characteristic curves – linear, equal %, 1:25, 1:50, 25:1, 50:1 or user configurable

with 20 reference points
Characteristic deviation ≤ 0.5%
Deadband 0.1%, adjustable to 10%
Resolution (A/D conversion) 16,000 steps

Sample rate 20 msec

Seismic vibration Meets requirements to DIN IEC 68-3-3 Class III for strong

and strongest earthquakes

Mechanical vibration ≤ 1% up to 10 g and 10...80 Hz

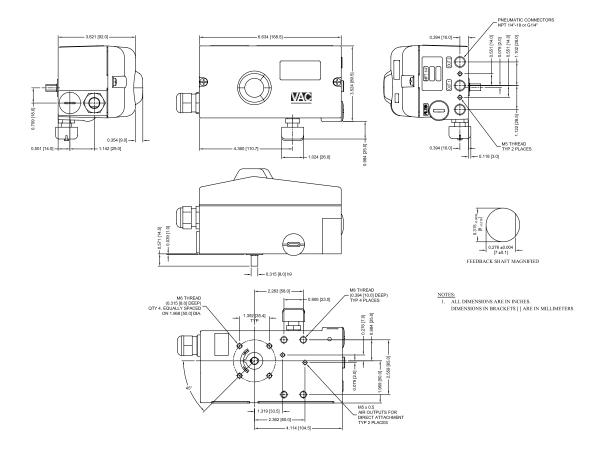
Mounting orientation ≤ 0.5% at 90° change

EMI complies with EMC directive 89/336/EEC as of May 1989

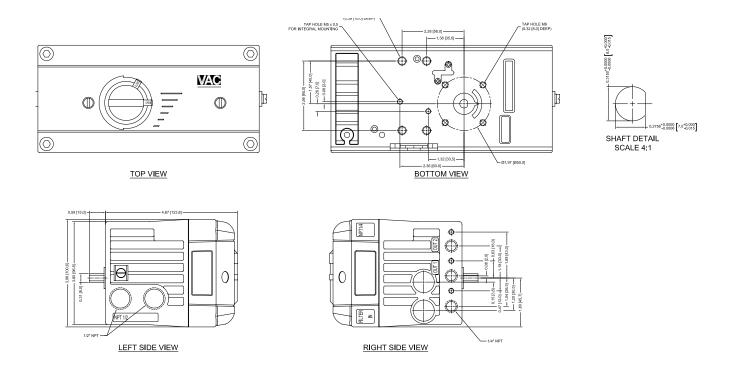
(increased EMI shielding to EN 50082-2 PR as of 11/93)

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.

When requesting a quote the items that can change pricing are: Positioner version, Action, Communication, Options-please have that information available for quick and accurate quotation.



D400 EX





Our way of doing business is just as simple as our products.

A solid, simply designed positioner, with high quality construction is just the start of the Valve Accessories and Controls story. Because we are a privately held, customer-driven company, we can meet your needs much quicker, with much more flexibility.

A quality company must be more than a quality product. Responding promptly and honestly, showing genuine interest in what we do and what you do, staying focused on our strengths, and being different in a positive way are important.

Sounds simple-we plan to keep it that way!





Retrofit your valve with a VAC Positioner—a "choice" of options!

Most industrial control valves are equipped with the valve manufacturer's "standard" positioner when the valve is first delivered. As these companies move into new generation products, they often leave behind a whole marketplace of product needs that don't "fit" the application needs. When these manufacturers' standard positioners need replacing, what choices are you offered? High prices, poor delivery, or discontinued products leave users without many options.

From a very basic and simple, pneumatic unit to standard or EX electropneumatic, to a complete line of digital positioners, the choice of replacing the manufacturer's "standard" positioner is back in your hands. VAC products offer the control accuracy needed in a simple rugged design (all metal housings) that is flexible and adaptable. The installed base of control valves is very important to users and to VAC.

Retrofit with a VAC positioner and take back control of your positioner options.



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