



VAC D500 Advanced Digital Positioner



Reliability - proven rugged technology, vibration test specified.

Flexibility - various mounting options, analog or binary feedback alarms, micro-switches, universal analog input available.

Diagnostics - pressure sensor option for advanced diagnostics with partial stroke capability standard.

Performance - Very high resolution, air delivery, precise positioning with 270 degree sensor, SIL2 and intrinsically safe options.

Simple - push buttons for auto-calibration and configuration, LCD-program with standard loop calibrator.

The D500 microprocessor based positioner brings the latest technology, flexibility, and user-friendly features (local push buttons and LCD display) for local operation and calibration of a pneumatic actuator and/or control valve package. A robust design (Nema 4X, Ip 65), with excellent air delivery, uses very traditional and proven components to provide very fast, accurate, and consistent control with very low air consumption.

Optional accessories like analog or digital feedback, various switch options, plug in modules for emergency shutdown and universal analog input, fail freeze option and pressure sensors for advanced diagnostics, intrinsically safe and SIL2 approvals make the D500 a complete positioner package. Coupled with VAC's multiple drive adapters and extensive list of rotary or linear actuator mounting, this combination offers users and distribution channels unmatched flexibility and opportunities.

Specifications:

General:

Housing-Cast Aluminum standard (stainless optional)-weight 5.3 lbs.

Nema 4 X Ip 65 Hardened Epoxy resin

Temp range -40-185 F

Gauge block with gauges (standard)

Meets DIN/IEC 60068-3-3 Class III for strongest earthquakes

25-270° rotation (rotary and or linear applications)

FM/CSA Intrinsically safe approvals (Atex-Gost-others) available

Inputs: Electrical

Nominal range-2 wire-4-20 mA and or Hart-5 or 7 (Supply 5-30

VDC) Load at 20 mA 9.7 V

Impedance @ 20 mA 285 Ω

Fail Safe (standard) or Fail Freeze (optional)

Connections-1/2" NPT with Cable gland

Inputs: Pneumatic (air supply per DIN/ISO

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1/4 " NPT

0-145 PSI Supply

0.015 SCFM Air Consumption-13 SCFM Delivery @ 87 PSI

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Rotary or Linear

Ordering Codes:

D500-Standard Unit
D500 IS-Intrinsically Safe-FM/CSA-Atex-IECEX-GOST available
S-Single Acting or D-Double Acting
N-Npt or G-Metric
D1-Namur, D2-1/2" square, D3-3/8" square, D4-round linear,
D5-double "D" Communication, NO-No communication or H-Hart

Options:

S2-Micro Switches, Prox NC-Proximity Switches Normally Closed,
4/20 Transmitter, FF-Fail Freeze, PSEN-Pressure Sensors, RSEN-Remote Sensors,
ESM-Emergency Shutdown Module, SIL-SIL 2 Certification, SS-Stainless Housing

Example-D500-S-N-D1-H-4/20-FF-PSEN

Standard D500, single acting, NPT threads, Namur spindle, Hart Communication,
4-20 mA feedback, fail freeze-with pressure sensors



D500 Product Features

- Advanced diagnostics with pressure sensors
- Partial stroke standard
- SIL 2 and intrinsically safe optional
- Excellent air delivery with very low air consumption.
- 25 deg to 270 deg rotation
- VAC rotary or linear mounting options.
- Seismic vibration-DIN/IEC 60068-3-3 Class III for strongest earthquakes.
- Fail safe standard, Fail Freeze optional.
- Stainless housing optional.



Customer Service

Equally important to quality products, VAC places a big emphasis on service, which starts with quality people. Phones are answered quickly and emails are given significant attention. Technical support is always a phone call away, with regional managers available for product and sales support. The D500 is an excellent product—VAC delivers excellent support.

VAC offers additional products in the D400, V100, or V200 series. Visit our website: www.vacaccessories.com for more details.



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