



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 and air delivery, precise positioning with 270° sensor, SIL2 and intrinsically safe options

Simple - push buttons and LCD display for auto-calibration and configuration with standard loop calibrator

The D500 microprocessor based positioner incorporates the latest technology, flexibility, and user-friendly features into one package. Standard push buttons and LCD display allow for local operation and calibration of the control valve package. A robust design with excellent air delivery, uses 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 4x, IP65, Hardened Epoxy resin

Temp range: 40-185°F

Rotation: 25-270° (rotary and or linear applications)

Approvals: FM/CSA Intrinsically safe Atex and others available

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

Gauge block with gauges optional

Inputs: Electrical

Nominal range: 4-20 mA, and/or Hart-5 or 7

Supply: 5-30 VDC

Load Voltage: 9.7 VDC @ 20 mA

Impedance: 485 Ω @20 mA

Connections: 1/2" NPT

Fail Safe (standard) or Fail Freeze (optional)

Inputs: Pneumatic

(air supply per DIN/ISO 8573-1)

Connections: 1/4 " NPT

Supply: 0-145 PSI

Air Consumption: < 0.015 SCFM

Delivery: 13 SCFM @ 87 PSI

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Rotary or Linear

Ordering Codes:

D500-Standard Unit

D500 IS-Intrinsically Safe-FM/CSA-Atex-IECEEx-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"

H-Hart Communication, NO-No communication

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

Standard features:

- Excellent air delivery with very low air consumption
- 25° to 270° rotation
- Rotary or linear mounting (determined by mounting kit)
- Partial stroke
- Fail safe
- Seismic vibration- DIN/IEC 60068-3-3 Class III for strongest earthquakes

Optional features:

- Advanced diagnostics with pressure sensors
- Fail Freeze
- SIL 2 and intrinsically safe
- Stainless housing



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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