Model V Series

Pneumatic and Electro-Pneumatic

Positioners

FLO-TITE™ valves & controls

MAX-SEAL® Valves & Controls

MADE IN THE USA

Model V Series

Pneumatic & Electro-Pneumatic Positioners

True Modularity • Universal Mounting • Field Upgradeable • Encapsulated Electronics
Corrosion-Resistant Housing • Hazardous Location Models

Very best components. Count on trouble-free, economical operation from every V Series model.

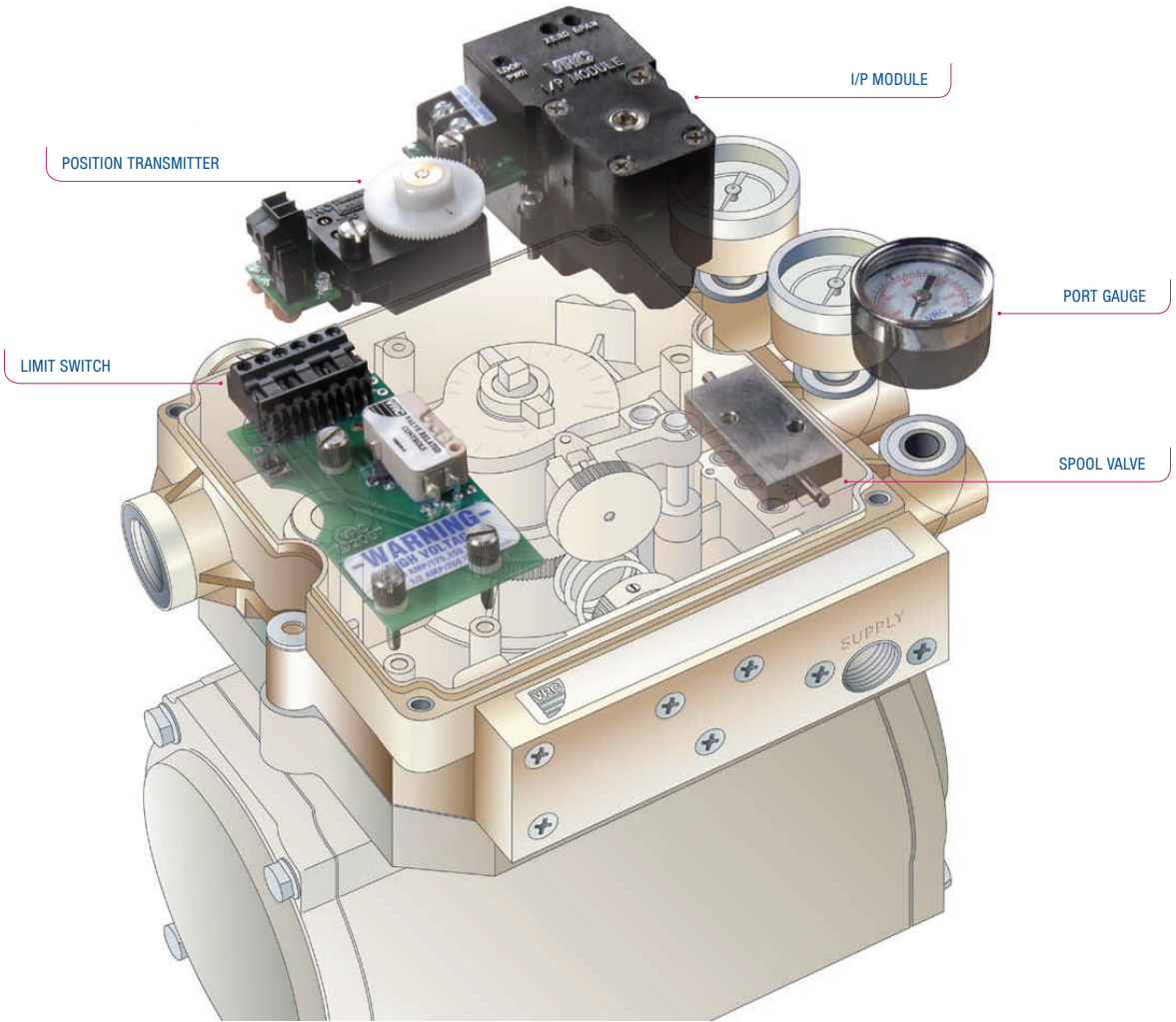
Very best performance. Truly modular and truly upgradeable in the field, the beauty of the V series is summed up in one word–*simplicity!*

Very best reliability. Dust tight. Water tight. Vibration resistant. Corrosion resistant. NEMA-standard composite enclosures. Whatever the application, Model V positioners pass the test with flying colors.

Very best.

Very best flexibility. The V Series universal mounting adapts to practically every quarter-turn actuator. **Very best precision.** The V Series affords precise, accurate mechanical calibration with Click-LockTM, **an Air-Con** exclusive! The result–accuracy and ease of adjustment.

Very best I/P conversion. The V Series ensures instantaneous automatic compensation for supply pressure, atmospheric pressure and ambient temperature changes... ***standard!*** **Very best safety.** **Air-Con's** exclusive **Model VI** incorporates a FM-, CSA- and Cenelec-approved converter that delivers safe, non-incendive service in both hazardous and general-purpose locations.



models

Air-Con provides a complete range of models suited to a variety of applications.

The Model V Series is the **most versatile line** of pneumatic and electro-pneumatic positioners available. From general purpose use to extreme and hazardous locations, count on **flawless performance** from every model.

General Purpose

Hazardous Locations

General Purpose + Hazardous Locations

MODEL VI – Hazardous Locations Information

- I/P Converter Type 22/06-65 (Model VI)
- Factory Mutual Approved:
  Intrinsically Safe, Class I, Division I, Groups A,B,C,D
  Non-Incendive, Class I, Division 2, Groups A,B,C,D
- CSA Approved:
  Intrinsically Safe, Class I, Division I and 2,
  Groups A,B,C,D
- CENELEC Approved EEx ia IIC T6
- For Applications in Hazardous Locations Reference Control Documents No. 900842/900843 Available by Contacting VRC.

MODEL VX – Hazardous Locations Information

Note: For the VX model hazardous ratings apply to the I/P metal (nema 7) housing only, the positioner housing is Nema 4x only:

- Factory Mutual Approved:
  Class I & II, Division 1, Groups B,C,D,E,F,G
- CSA approved:
  Class I & II, Division 1, Groups B,C,D,E,F,G

Fail-Freeze I/P

Limit Switch/Transmitter Mounting Option

*Shown with optional cover.

specifications

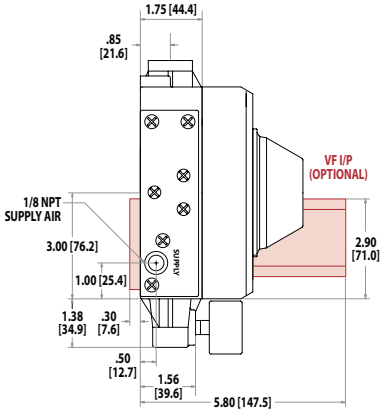
(910) 738-8904
www.flotite.com

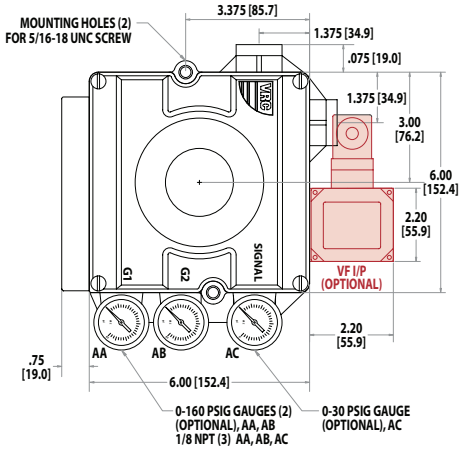
PERFORMANCE

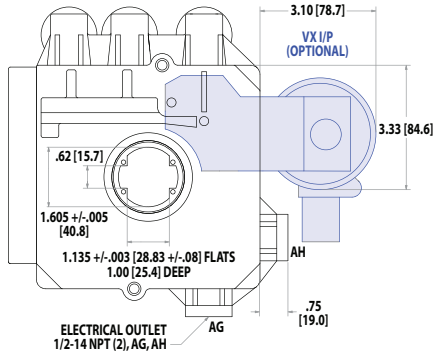
PARAMETER	SPECIFICATION
Resolution	0.25% Maximum 0.10% Typical
Repeatability	99.75% Minimum 99.90% Typical
Hysteresis	0.50% Maximum 0.25% Typical
Linearity	+/- 1.0% Maximum
Gain @80 PSIG	250 Single-Acting 500 Double-Acting
Air Consumption @80 PSIG	0.25 SCFM Standard Flow Spool Valve 0.45 SCFM. Maximum Flow Spool Valve
Temperature Range	-40 to 150F/-40 to 65c

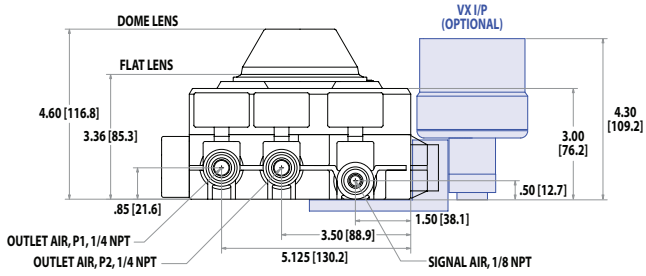
CONSTRUCTION

PART	MATERIALS
Models VI, VX, VF	Anodized and epoxy painted aluminum
Enclosure	PPA Composite, 300 Series Stainless Port Rings, Cover and Mounting Bolts
Indicator Lens	LEXAN
Internals	PPA, PPS and PEEK Composites 300 Series Stainless Steel Nickel Plated Brass
Spool Valve	Carpenter 70 Grade Stainless Steel
I/P Converter (VK02)	PPA Composite, TEFLON Coated Carbon Steel, Nickel Plated Carbon Steel, High Density Polyethylene DELRIN
Signal Diaphragm/ O-Rings	BUNA N









REQUIRED SELECTIONS

Model Type

VP
Pneumatic
3-15 PSI

VE
Electro-Pneumatic
4-20 MA

VI
Electro-Pneumatic
General Purpose and
Hazardous Locations

VX
External I/P
Explosion Proof
Hazardous Locations

VF
Fail-Freeze I/P

Position Indicator

Switch Mount	4
Fusion Coating Flat Lens	5
Fusion Coating Dome Lens	6
Flat 90°	7
Flat 180°	8
Dome 90°	9

Characterizing Cam

Linear	0
Square Root	1
Square	2
0-60 degrees	3
Equal Percent	4
Custom	5
Tangent	6
0-45 degrees	7
0-35 degrees	8

Spool Valve

Standard	0
Maximum	1
Extreme Service Standard Flow	2
Extreme Service Maximum Flow	3

OPTIONAL SELECTIONS

Port Gauges

Brass	G
Full Stainless	Z
Stainless Case	Y

Position Transmitter

4-20 MA	T1
1 kOhm	T2

Limit Switch

Mechanical (2) SPDT	S1
Proximity (2) SPST	S2

ORDER EXAMPLE A MODEL VE900-G-T1-S2 is a: (Model VE) Electro-Pneumatic Positioner with a **(9) DOME** Position Indicator, 2 quadrant; **(0) LINEAR** Cam; and **(0) STANDARD FLOW** SPOOL VALVE. Optional fields specify: **(G) BRASS** Gauges; (T1) **4-20 MA** Position Transmitter, and **(S2)(2) SPST PROXIMITY** Limit Switches.

Note: Where limit switches and/or transmitters are required in hazardous locations, the (4) Switch Mount Cover is available for mounting Nema 7-type switch boxes.

MADE IN THE USA

Design: Bryan Boyd Creative Group, Inc., Charleston, WV / Printing: Richardson Printing, Marietta, OH