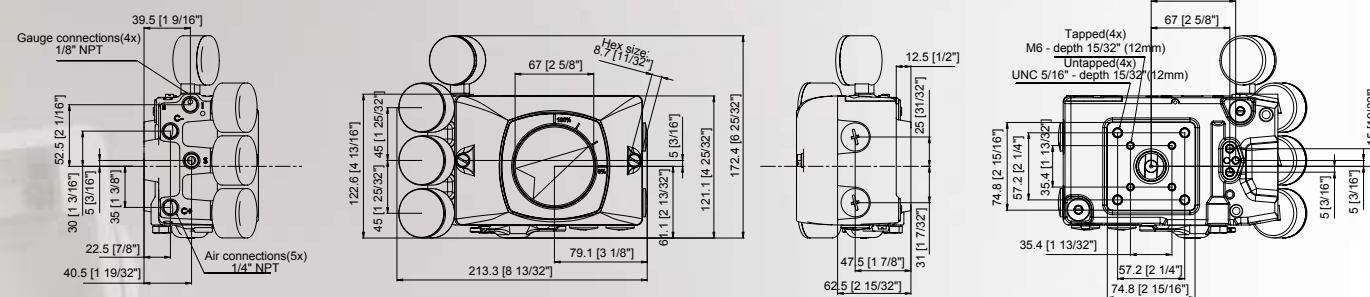
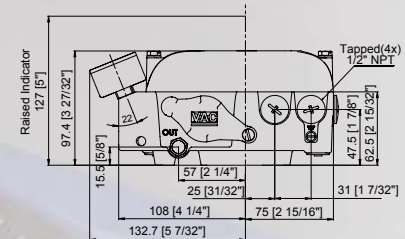


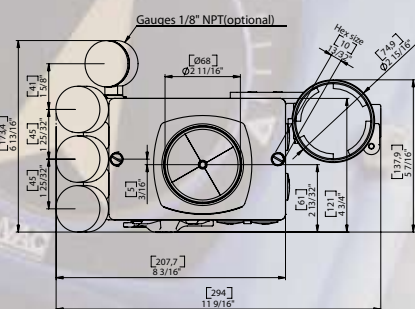
V200 Dimensional Drawings



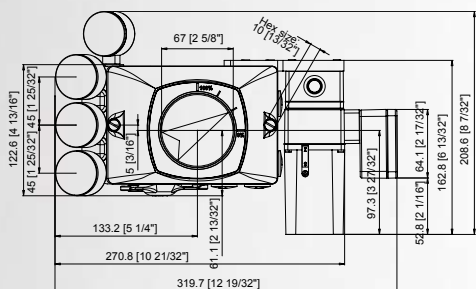
Dimensional Drawing
VAC Positioner V200 PP/EP



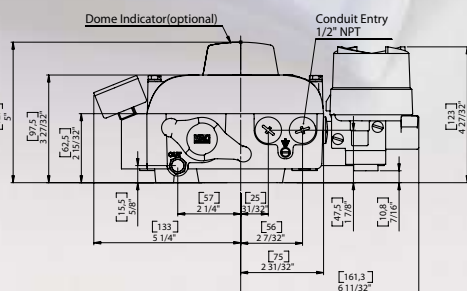
V200P, E, -IS



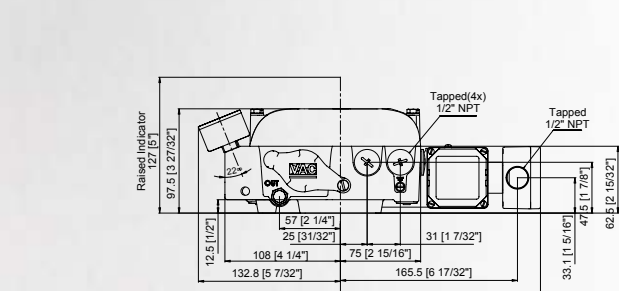
V200-EX, E-GA



V200-FF



V200E 0-10V



NOTE: Inches appear in parentheses

Ordering Codes:

Pneumatic
Electro-pneumatic
Explosion Proof
Intrinsically Safe
Fail Freeze

V200 P
V200 E
V200 EX
V200 IS
V200 FF

Spindle DX
Front Cover 90 degree rotation 90
60 degree rotation 60
45 degree rotation 45
30 degree rotation 30
Blank scale XX
Indicator Arrow A
Beacon B
(standard) 90°

Cam 45/90°
30/60°
60/120° (others available)

Spool Valve Options (shipped with standard spool)
Low Bleed LB
High Gain HG
Super High Gain SHG
Super High Gain/Flow SHGHF

Feedback Options
2 SPDT Mechanical Switches
2 SPDT Reed Switches
4-20 mA Transmitter
Mech Switches w/transmitter
Reed Switches w/transmitter
1 K potentiometer
10 K potentiometer
Extra High Temp Option (Pneumatic only)
Gas Approved

Example:
V200E-D1-90-B-C1-FB-MmA
Electropneumatic with namur spindle, 90 degree cover, raised indicator, 90 degree cam, feedback with mechanical switches and 4/20 mA transmitter.



Marketed by VAC (Valve Accessories & Controls), the V200 positioner line is supported by a knowledgeable and professional staff. Customer service is a key component to the VAC package. Local inventories and technical assistance are just a phone call away.

The V200 package includes a diverse mix of positioners and feedback options for mounting to various actuator applications, all in one compact Nema 4X housing. Quality design, manufacturing, and product performance are coupled with competitive pricing and excellent service, providing all process industries a cost effective alternative to accurate positioner control and position feedback.



VALVE ACCESSORIES & CONTROLS
200 Jade Park
Chelsea, AL 35043
TEL: 205-678-0507
FAX: 205-678-0510
info@vacaccessories.com

VALVE ACCESSORIES & CONTROLS
12942 Bedford Falls Drive
Cypress, TX 77429
TEL: 713-493-2624
Cell: 713-253-7781
FAX: 281-256-9399
randye@vacaccessories.com

vacaccessories.com

Spindles (Drive):

D1	Namur - Standard
D2	1/2" Square
D3	3/8" Square - Short
D4	Round - Linear
D5	Double D
D6	3/8" Square - Long
D7	3/4" Slotted
D8	12mm Dual Post
D9	Old Namur - Special
D10	Namur - Special
D11	Octagon
D12	3/8" Square - EX long

FB
M
R
mA
MmA
RmA
1K
10K
EHT
GA



Valve Accessories & Controls

V200 Series Positioners

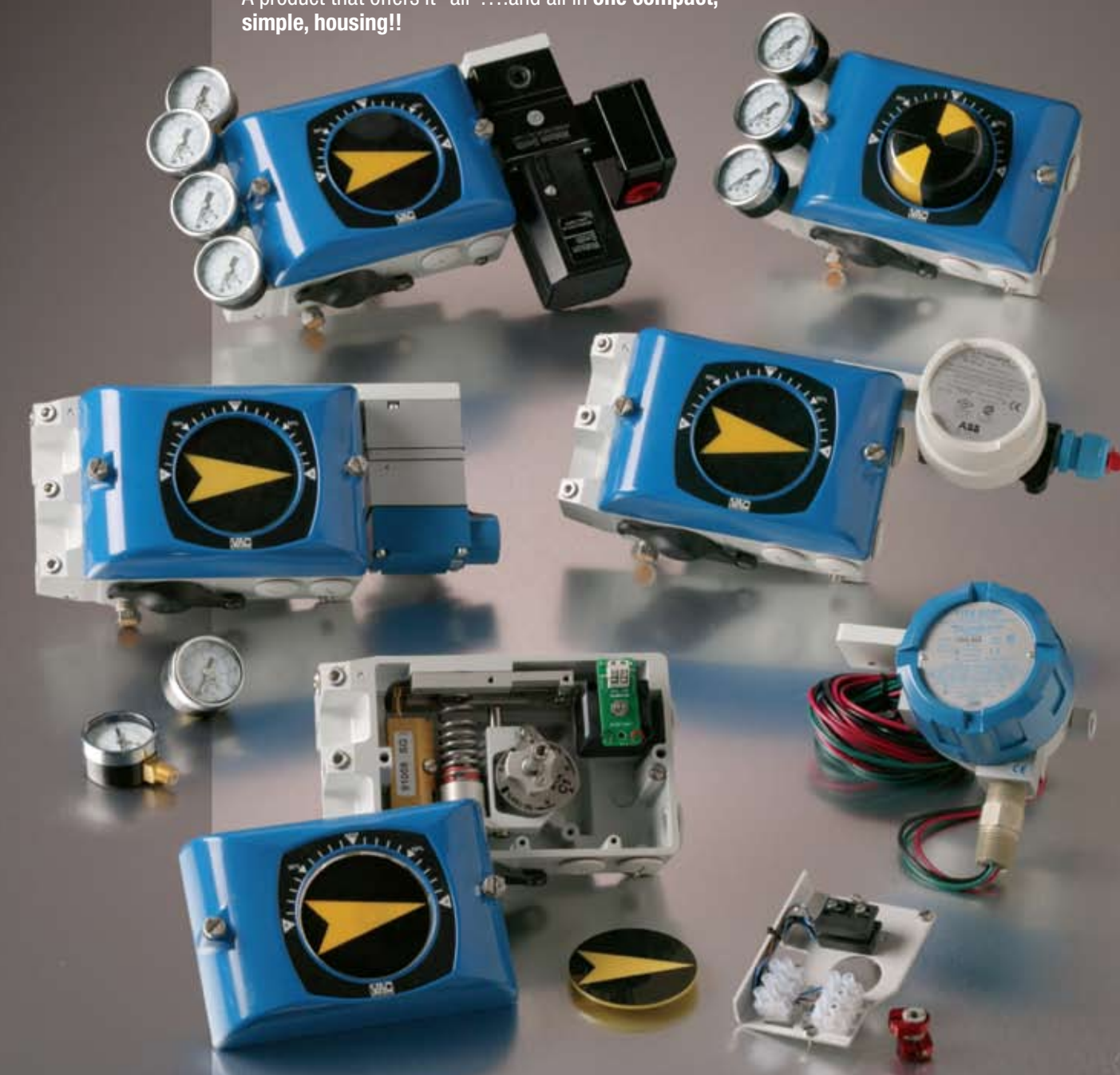
In a single compact and rugged housing

The V200 positioner incorporates the flexibility of converting from a pneumatic unit to several versions of an electropneumatic unit, and the ability to add position feedback, in a matter of minutes, all in one compact and rugged housing.

Maximum flexibility and versatility!!

With a rugged Nema 4X, IP 66, die cast aluminum housing, versatile polyester coating, and standard features like external zero and span adjustment, this unit expands the VAC offering to cover this "all in one" market for positioners. Add to this the excellent performance yet simple design, and the combination equals a real value.

A product that offers it "all"....and all in one compact, simple, housing!!



BUDENBERG GAUGE CO. LTD
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Fax: +44 (0)870 787 7350
sales@budenberg.co.uk

3M 3/10

**V200
Options/Features:**

Internal 4/20 mA
Feedback

Internal switches-
Mechanical or Reed.

Five Pilot Options

Flexible mounting
for rotary or linear
applications

External zero and span
adjustment-without
removing the positioner
cover

Internal Ip with simple loop
test points.

Dome Indicator - Black/Yellow
Red/Green

The V200 Positioner



V200 Benefits

- Compact Design
- Quality components = rugged and accurate performance
- External zero and span (complete calibration) adjustment without removing cover
- Easily maintain all key components
- Clear, visible indicator with arrow indicator standard-beacon optional
- Field changeable to any available option

**V200 E
(electropneumatic) Options**

V200E-Standard
Nema 4X Unit

V200-EX Explosion
Proof Unit

V200-FF Fail
Freeze Unit

V200E-GA Gas
Approved Unit

V200E-0/10 Volt Unit

Technical Specifications:

Positioners:	Pneumatic V200P	V200E & -IS	Electropneumatic V200-EX	V200-FF
Input Signal	3-15 PSI	4-20mA	4-20 mA	4-20 mA
Supply Pressure	145 PSI	145 PSI	100 PSI	145 PSI
Linearity error	<0.7% f.s.	<1.0% f.s.	<0.8% f.s.	<1.2% f.s.
Hysteresis	<0.4% f.s.	<0.6% f.s.	<0.5% f.s.	<0.9% f.s.
Repeatability	<0.3% f.s.	<0.5% f.s.	<0.4% f.s.	<0.8% f.s.
Weight	P-3.2 lbs	E-3.8 lbs.	EX-5.3 lbs.	FF-5.4 lbs.
Temperature range	-40 to 185 F -40 to 85 C	-40 to 185 F -40 to 85 C	-40 to 185 F -40 to 85 C	-20 to 158 F -20 to 70 C
Extra High Temp (EHT)	-40 to 325 F -40 to 162 C			

	Low Bleed	Standard	High Gain	Super High Gain	Super High Gain/Flow
Air Delivery @87 PSI (600 kPa)	28 scfm	28.8 scfm	31.8 scfm	31.8 scfm	51 scfm
Bleed Rate @87 PSI (600 kPa)	.2 scfm	.35 scfm	.53 scfm	.53 scfm	.71 scfm
Pressure Gain	240:1	300:1	800:1	1100:1	1100:1

Air connections	1/4" NPT
Gauges	1/8" NPT
Cable Entry	1/2" NPT
Ingress & corrosion protection	NEMA 4X and IP66
Standard coating	Polyester

Feedback NEMA 4 Rated
General:
Plug-in components directly into V200 series positioner housing
Can combine switches and 4/20 feedback
Conduit connections 1/2" NPT
Enclosure Nema 4X/IP 66
Operating temp -40 to +185° F (-40 to +85° C)

Mechanical Switches:
2-Type: SPDT, V3
Max Load:

Resistive	(Inductive)	Voltage
15 A	(3) A	125/250 VAC
0.25 A	(0.1) A	220 VDC
0.5 A	(0.2) A	110 VDC
8 A	(7) A	24 VDC

Reed Switches:
2-Type: SPDT-CO, Form C
Contact rating: max 3W
Voltage: max 100 VDC
Breakdown min 200 VDC
Current: Switching max 0.20 A
Carry max 1.3 A

Contact resistance: 0.2 ohms
Contact capacitance: 0.3 pF

4/20 mA Position Feedback:

Voltage supply:	7-30 VDC
Output:	4-20 mA, 2 wire
Loop Impedance:	max 850 ohms @ 24 VDC
Linearity error:	<1.2%
Hysteresis:	<0.2%
Temp. Sensitivity:	< 0.1%/10°F (5.5°C)

Others Options:
Potentiometer-Namur Sensors - Third party EX mounting

Approvals

Ratings for hazardous locations:

V200-EX
Positioner enclosure is Nema 4X (IP 65)

ATEX-explosion protection
1487X, intrinsically safe EEx ia IIC T4/T5/T6
E121X, flameproof EEx d IIC T4/T5/T6

FM and CSA
Explosion Proof CL I, II Div 1 Grp B-G

Intrinsically Safe
FM CL I-II-III Div 1 Grp A-G
CSA CL II Div 1&2 Grp E-G
CL III

Non Incentive
FM CL 1 Div2 Grp A-C

Temperature Class	Short circuit Current-max	Ambient Temp max
T6	50 mA	140F (60C)
T5	60 mA	158F (70C)
T4	60 mA	185F (85C)

V200-IS (Intrinsically Safe)
ATEX
EEx ia IIC T4/T6

FM
CL1 Div1 Grp A B C D

CSA
EX ia CL1 Grp A B C D
EX ia CL 1 Div2 Grp A B C D

