





A POSITIONER THAT OFFERS IT ALL IN ONE COMPACT, SIMPLE, HOUSING

WWW.VACACCESSORIES.COM 205-678-0507



# The V200 Positioner



## ALL IN A SINGLE COMPACT AND RUGGED HOUSING

The V200 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, optional Tufram® or Nickel

coatings, low -58F or high +325F temp options, 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.





Mechanical or Reed general purpose only



V200E-0/10 Volt Unit



Extra High Temp (EHT) +325° F only available in pneumatic



V200EX Explosion Proof Unit

V200 Nickel Coated



V200EX-GA Gas Approved Unit



V200 Tufram<sup>®</sup> Coated

# **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 I/p option



V200EX with Third Party EX Switch



# Technical Specifications:

Positioners:	PneumaticElectropneumaticV200PV200E & -ISV200-EXV200E 0-10			
Input Signal	3-15 PSI	4-20mA	4-20 mA	0-10 VDC
Supply Pressure	20-145 PSI	20-145 PSI	20-145 PSI	20-120 PSI
Linearity error	<0.7% f.s.	<1.0% f.s.	<0.8% f.s.	<1% f.s.
Hysteresis	<0.4% f.s.	<0.6% f.s.	<0.5% f.s.	<0.5% f.s.
Repeatability	<0.3% f.s.	<0.5% f.s.	<0.4% f.s.	<0.5% f.s.
Weight	3.2 lbs	3.8 lbs.	5.4 lbs.	3.8 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	-40 to 160 °F (-40 to 71 °C)
Low Temp	-58 to 185 °F	+0 10 00 0	40 10 00 0	(401071-0)
Extra Lligh Tomp (EUT)	-50 to 85 °C -40 to 325 °F			
Extra High Temp (EHT)	-40 to 162 °C			
Spool/Pilot Valves	Standard /Low Ble	ed High Gain	Super High	n Gain/High Flow
Air Delivery		, i i i i i i i i i i i i i i i i i i i		
@87 PSI (600 kPa) Bleed Rate	28.3 scfm	31.5 scfm		50 scfm
@87 PSI (600 kPa)	<.2 scfm	.83 scfm		1.3 scfm
Pressure Gain	240:1	1100:1		1100:1
Air connections	1/4" NPT		A	l <i>la</i> entre
Gauges	1/8" NPT		Approvals-	—i/p only
Cable Entry	1/2" NPT			
Ingress & corrosion pro Standard coating	tection—NEMA 4X ar Polyester	nd IP66	Available Appro Ratings for Haz	vals: ardous Locations
Feedback (not rated for	or EX or IS) Enclosur	e Nema 4X/IP 66	Explosion Proof	CL I, II Div 1 Grp B-G
General Purpose:				•
Plug-in components dir		s positioner housing	Non Incendive	CL I Div 2 Grp A-C
Can combine switches Conduit connections 1/			Intrinsically Saf	Р
Operating temp		) to +85 °C)	FM	CL I-II-III Div 1 Grp A-G
Mechanical Switches:				02.1.1.1.2.1.1.0.p.r.0.
2-Type: SPDT, V3			CSA	CL II Div 1&2 Grp E-G
Max Load:		N / 10		CL III
Resistive	(Inductive)	Voltage	ATEX-explosion	protoction
15 A 0.25 A	(3) A (0.1) A	125/250 VAC 220 VDC		lly safe EEx ia IIC T4/T5/T6
0.5 A	(0.2) A	110 VDC		of EEx d IIC T4/T5/T6
8 A	(7) A	24 VDC		
Reed Switches:			Temperature Clas	SS
2-Type: SPDT-CO,	Form C		Short cire	
Contact rating:	max 3W		Current-	
Voltage:	Switching	max 100 VDC	T6 50 mA	140 °F (60 °C)
	Breakdown	min 200 VDC	T5 60 mA	158 °F (70 °C)
Current:	Switching	max 0.20 A max 1.3 A	T4 60 mA	185 °F (85 °C)
Contact resistance:	Carry 0.2 ohms	max 1.5 A	V200-IS (Intrinsi	cally Safe)
Contact capacitance:	0.3 pF			
4/20 mA Position Feed	lback:		FM	CL I Div1 Grp A B C D
	Voltage supply:	7-30 VDC	004	
	Output:	4-20 mA, 2 wire	CSA	EX ia CL I Grp A B C D EX ia CL I Div2 Grp A B C D
	Loop Impedance: Linearity error:	max 850 ohms @ 24 \ <1.2%		EN 18 OF I DIVE GIP A D C D
	Hysteresis:	<0.2%		
	Temp. Sensitivity:	< 0.1%/10 °F (5.5 °C	) <b>FM</b>	
Other Ontions:			′	

Other Options: Potentiometer-Namur Sensors - Third party stackable EX mounting kits



# **Ordering Codes:**

Pneumatic	V200 P
Electropneumatic	V200 E
Explosion Proof	V200 <b>EX</b>
Intrinsically Safe	V200 <b>IS</b>
Fail Freeze	V200 <b>FF</b>

#### Spindle

D1 Namur (standard) For additional spindle options, please contact VAC or visit our website at www.vacaccessories.com

#### Front Cover

90 degree rotation	90
60 degree rotation	60
45 degree rotation	45
30 degree rotation	30
Blank scale	00

#### Indicator

Arrow
Standard Beacon/Raised (Black/Yellow)
Optional Beacon/Raised (Red/Green)
(standard) 90°

Α В BRG

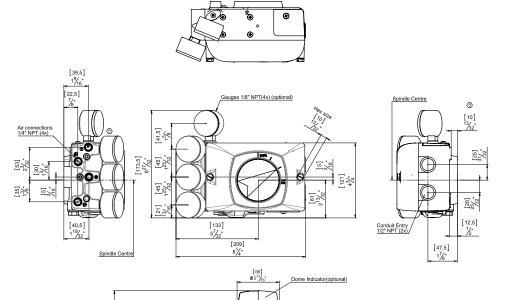
Cam C1 (standard) For additional cam options, please contact VAC or visit our website at www.vacaccessories.com

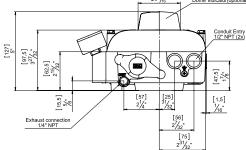
#### Spool Valve Options (shipped with standard spool)

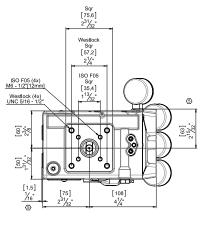
Spool Valve Options (shipped w	ith standard spool)		
Standard (Low Bleed)	SG/LB-Shipped as	Standard	
High Gain	HG		
Super High Gain/Flow	SHGHF		
<b>Options</b> Extra High Temp (Pneumatic only) (-40 to 325 F) Low Temp (Pneumatic only) (-58 to 185 F) 0/10 Volt I/P (V200E only) Gas Approved ATEX Tufram® Coating (V200 P and E) Nickel Coating (V200 P and E) 6-30 Psi Spring	EHT LT 0/10V GA ATEX TUF NIC 6-30	V200EX-GA ( Approved Ur	and the second s
Feedback Options 2 SPDT Mechanical Switches 2 SPDT Reed Switches 4-20 mA Transmitter Mech Switches w/transmitter	FB M R mA MmA		V200EX Explosion Proof Unit Standard X Unit or
Reed Switches w/transmitter 1 K potentiometer 10 K potentiometer	RmA 1K 10K	IS Unit	
Example: V200E-D1-90-B-C1	8	MES 1	
Electropneumatic with namur spine 90 degree cover, raised indicator, 90 degree cam	die,	JF 🜔	•
Example: FB-MmA Mechanical switches with 4/20 mA transmitter		Internal switches- Mechanical or Reed with 4/20 mA transmit	ter



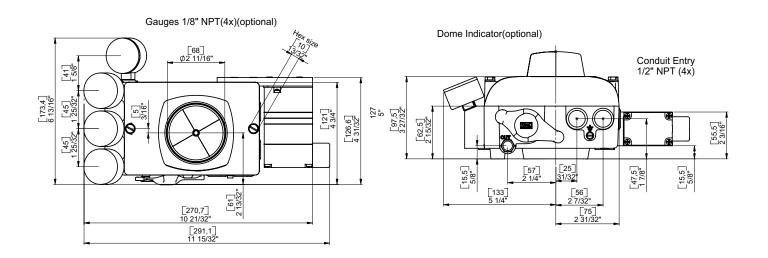
### V200P, E, IS, TUF, NIC, EHT, LT





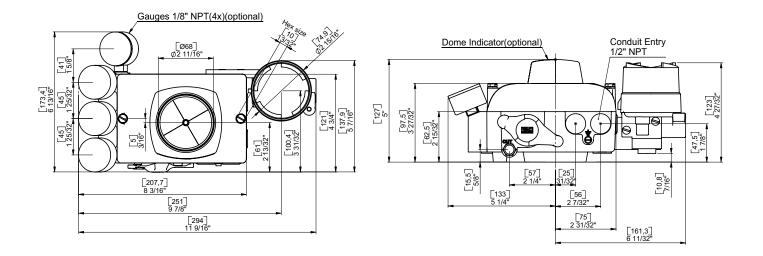


### V200E 0-10V

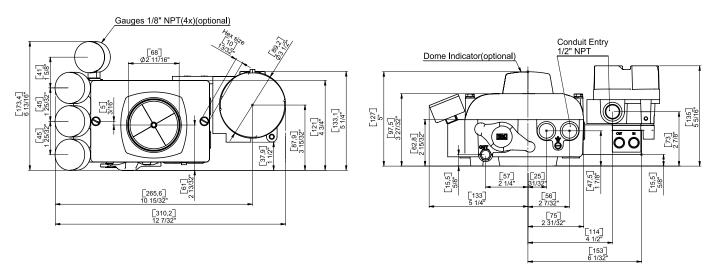




#### V200EX



V200EX-GA



NOTE: mm appear in parentheses





# 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 a lot more flexibility.

A quality company must be a lot 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 you need 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, putting your positioner options back in your control.



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