



## Technical Specifications

### V200P Pneumatic Positioner

Input range:	3-15 PSI	20-100 kPa
Supply pressure:	145 PSI	<1 MPa
Linearity error:	<0.7 f.s	
Hysteresis:	<0.4 f.s.	
Repeatability:	<0.3 f.s.	

<b>Pneumatic Flow</b>	<b>Standard/Low Bleed</b>	<b>High Gain</b>	<b>Super High Gain/High Flow</b>
Pressure Gain: @87 PSI (600kPa)	240:1	1100:1	1100:1
Air Delivery: @87 PSI (600kPa)	SCFM 28.3	31.8	50.0
Air Consumption: @87 PSI	SCFM <.2	.71	1.3
Temp Range:	-40° to 185° Fahrenheit -40° to 85° Celsius		
Air Connections: Gauge port:	1/4" NPT or G Threads 1/8" NPT or G Threads		
Ingress & corrosion protection: Coating:	Nema 4X and IP 66 Powder Polyester		
Weight	3.5 lbs	1.6 kg	



## Technical Specifications

### V200E-FF Electropneumatic Fail Freeze Positioner

Input range: 4-20mA  
 Load presents 6 volts (+/-0.5V) constant voltage drop to the current source.

Supply pressure: 20-100 PSI  
 Linearity error: <1.2% f.s.  
 Hysteresis: <0.9% f.s.  
 Repeatability: <0.8% f.s.

<b>Pneumatic Flow</b>	<b>Standard/Low Bleed</b>	<b>High Gain</b>	<b>Super High Gain/High Flow</b>
Pressure Gain: @87 PSI (600kPa) acc.to ISA S75.13	240:1	1100:1	1100:1

<b>Positioner:</b>			
Air Delivery: @87 PSI (600kPa)	SCFM 28.3	31.8	50.0
Air Consumption: @87 PSI	SCFM <.2	.71	1.3

Supply pressure effect: negligible  
 Loop voltage drop: +/-0.5 V  
 Reverse protection: 125 mA  
 Over current protection: 125 mA  
 Fail Freeze Mode: Input signal fail below 2 mA +/-0.5 mA  
 Fail Freeze Drift Rate: .02% in 30 seconds (mid range)

Temp Range: -20° to 158° Fahrenheit  
 -20° to 70° Celsius

Air Connections: 1/4" NPT or G Threads  
 Gauge port: 1/8" NPT or G Threads  
 Cable entry: 1/2" NPT optional 30mm square  
 Connector DIN 43650

Ingress & corrosion protection: Nema 4X and IP 66  
 Coating: Powder Polyester

Weight 5.4 lbs.



### Technical Specifications

#### V200E-EX-Electropneumatic Explosion Proof Positioner

Input range: 4-20mA (R1<260 ohms)  
 Supply pressure: 20-145 PSI 0.2-1MPa  
 Linearity error: <0.8% f.s.  
 Hysteresis: <0.5% f.s.  
 Repeatability: <0.% f.s.

Pneumatic Flow	Standard/Low Bleed	High Gain	Super High Gain/High Flow
Pressure Gain: @87 PSI (600kPa) acc.to ISA S75.13	240:1	1100:1	1100:1

Positioner: Air Delivery: @87 PSI (600kPa)	SCFM 28.3	31.8	50.0
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Air Consumption: @87 PSI	SCFM <.2	.71	1.3
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Temp Range: -40° to 185° Fahrenheit  
 -40° to 85° Celsius

Air Connections: ¼" NPT or G Threads  
 Gauge port: 1/8" NPT or G Threads  
 Cable entry: ½" NPT or M20x1.5 or PG 13.5

Ingress & corrosion protection: Nema 4X and IP 65  
 Coating: Powder Polyester

Weight 5.4 lbs

### Approvals

#### Atex/Cenelec

Intrinsically safe: EEX ia IIB T4  
 Flameproof: EEx d IIB +H2 T4

#### British Standard (NI)

Non incendive: Ex N II T6 for Zone 2

#### FM

Intrinsically safe: CL I-II-III/Div 1/Grp

#### CSA

Intrinsically safe: CL I/Div 1/Grp CD  
 CL II/Div 1/Grp EFG  
 CL III  
 CL I/Div 2/Grp BCD  
 CL II/Div 1/Grp EFG  
 Explosion proof: CL I/Div 1/Grp BCD  
 CL II/Div 1/Grp EFG

#### GOST

EEx ia or EEx d (Russia/Ukraine)





### Technical Specifications

#### V200E-GA-Electropneumatic Explosion Proof Positioner-Gas Approved

Input range: 4-20mA  
 Supply pressure: 20-100 PSI  
 Linearity error: <1.0% f.s.  
 Hysteresis: <0.5% f.s.  
 Repeatability: <0.5% f.s.  
 Loop Load 7.5 VDC @ 20 mA

<b>Pneumatic Flow</b>	<b>Standard/Low Bleed</b>	<b>High Gain</b>	<b>Super High Gain/High Flow</b>
Pressure Gain: @87 PSI (600kPa) acc.to ISA S75.13	240:1	1100:1	1100:1

Air Delivery: @87 PSI (600kPa)	SCFM 28.3	31.8	50.0
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Air Consumption: @87 PSI	SCFM <.2	.71	1.3
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Temp Range: -40° to 160° Fahrenheit  
 -40° to 71° Celsius

Air Connections: ¼" NPT or G Threads  
 Gauge port: ⅛" NPT or G Threads  
 Cable entry: ½" NPT or M20x1.5 or PG 13.5

Ingress & corrosion protection: Nema 4X and IP 66  
 Coating: Powder Polyester

Weight 5.5 lbs

### Approvals

**FM CSA**  
**Intrinsically Safe**  
 Cl 1, Div 1 & 2 , Gps BCD  
 Cl II Dive 1, Gps EFG  
 Cl III Div 1 fibers  
 Temp Code T4

**Explosion Proof**  
 Cl I, Div 1 & 2, Gps B,C,D

**Dust Ignition Proof**  
 Cl II & III, Div 1, Gps EFG





### Technical Specifications

#### V200E 0-10 VDC Electropneumatic Positioner

Input range: 0-10 VDC  
 Supply pressure: 20-120 PSI  
 Linearity error: <1.0% f.s.  
 Hysteresis: <0.5% f.s.  
 Repeatability: <0.5% f.s.

Pressure Gain: 750 Pout/Pin  
 Acc. To ISA S75.13 49% Pout/Pin

<b>Pneumatic Flow</b>	<b>Standard/Low Bleed</b>	<b>High Gain</b>	<b>Super High Gain/High Flow</b>
Pressure Gain: @87 PSI (600kPa) acc.to ISA S75.13	300:1	1100:1	1100:1

Air Delivery: @87 PSI (600kPa)	SCFM 28.3	31.8	50.0
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Air Consumption: @87 PSI	SCFM <.2	.71	1.3
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Temp Range: -40° to 160° Fahrenheit  
 -40° to 71° Celsius

Air Connections: ¼" NPT or G Threads  
 Gauge port: ⅛" NPT or G Threads  
 Cable entry: ½" NPT or M20x1.5 or PG 13.5

Ingress & corrosion protection: Nema 4X and IP 66  
 Coating: Powder Polyester-Positioner  
 Epoxy-IP Transducer

Ip Converter  
 3 wire 7.2-30 VDC Input/power  
 0-10 VDC Signal  
 Frequency response -3 db@ 5 Hz  
 Vibration effect Less than +1% of Span under 5-15 Hz @ 0.8 inches  
 constant displacement 15-500 Hz @ 10 Gs.

Weight	3.8 lbs	1.7 kg
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## Technical Specifications

### V200E-IS Electropneumatic Positioner

Input range:	4-20mA (Ri<170 ohms)		
Supply pressure:	20-145 PSI      1MPa		
Linearity error:	<1.0% f.s.		
Hysteresis:	<0.6% f.s.		
Repeatability:	<0.5% f.s.		
<b>Pneumatic Flow</b>	<b>Standard/Low Bleed</b>	<b>High Gain</b>	<b>Super High Gain/High Flow</b>
Pressure Gain:	240:1	1100:1	1100:1
@87 PSI (600kPa)			
acc.to ISA S75.13			
Air Delivery:	SCFM		
@87 PSI (600kPa)	28.3	31.8	50.0
Air Consumption:	SCFM		
@87 PSI	<.2	.71	1.3
Temp Range:	-40° to 185° Fahrenheit		
	-40° to 85° Celsius		
Air Connections:	¼" NPT or G Threads		
Gauge port:	⅛" NPT or G Threads		
Cable entry:	½" NPT or M20x1.5 or PG 13.5		
Ingress & corrosion protection:	Nema 4X and IP 66		
Coating:	Powder Polyester		
Weight	3.8 lbs	1.7 kg	

### IS Approvals

Atex/Cenelec EEx ia IIC T4-T6

FM/CSA CL I Div 1 Grp ABCD  
CL I Div 2 Grp ABCD



### Technical Specifications

#### V200P EHT (Extra High Temp) Pneumatic Positioner

Available in pneumatic only.

Input range:	3-15 PSI	20-100 kPa
Supply pressure:	145 PSI	<1 MPa
Linearity error:	<1.0 f.s	
Hysteresis:	<0.5 f.s.	
Repeatability:	<0.4 f.s.	

<b>Pneumatic Flow</b>	<b>Standard/Low Bleed</b>	<b>High Gain</b>	<b>Super High Gain/High Flow</b>
Pressure Gain:	240:1	1100:1	1100:1
@87 PSI (600kPa)			
acc.to ISA S75.13			

Air Delivery:	SCFM		
@87 PSI (600kPa)	28.3	31.8	50.0

Air Consumption:	SCFM		
@87 PSI	<.2	.71	1.3

Temp Range:	-40° to 325° Fahrenheit
	-40° to 163° Celsius

Temperature Effect:	Zero 1.5% @ 325F
	Span 6.0% @ 325F

The above is based on calibrating at ambient temperature and the unit subjected to 325F.

Air Connections:	¼" NPT or G Threads
Gauge port:	⅛" NPT or G Threads

Ingress & corrosion protection:	Nema 4X and IP 66
Coating:	Nickel Plated-Aluminum

Weight	3.5 lbs	1.6 kg
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### Technical Specifications

#### V200 Nickel V200 P, E, IS Units with Nickel Coating

	V200 P	V200 E	V200E-IS*
Input range:	3-15 PSI	4-20mA (Ri<230 ohms)	4-20 mA (Ri<170 ohms)
Supply pressure:	145 PSI	20-145 PSI	20-145 PSI
Linearity error:	<0.7% f.s.	<1.0% f.s.	<1.0% f.s.
Hysteresis:		<0.6% f.s.	<0.6% f.s.
Repeatability:		<0.5% f.s.	<0.5% f.s.

Pneumatic Flow	Standard/Low Bleed	High Gain	Super High Gain/High Flow
Pressure Gain: @87 PSI (600kPa) acc.to ISA S75.13	240:1	1100:1	1100:1

Air Delivery: @87 PSI (600kPa)	SCFM 28.3	31.8	50.0
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Air Consumption: @87 PSI	SCFM <.2	.71	1.3
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Temp Range:	-40° to 185° Fahrenheit -40° to 85° Celsius		
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Air Connections:	¼" NPT or G Threads		
Gauge port:	⅛" NPT or G Threads		
Cable entry:	½" NPT or M20x1.5 or PG 13.5		

Ingress & corrosion protection: Nema 4X and IP 66  
Coating: Nickel

Weight	3.8 lbs	1.7 kg
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#### \*IS Approvals

Atex/Cenelec EEx ia IIC T4-T6

FM/CSA CL I Div 1 Grp ABCD  
CL I Div 2 Grp ABCD





### Technical Specifications

#### V200 Tufram V200 P, E, IS Units with Tufram Coating

	V200 P	V200 E	V200E-IS*
Input range:	3-15 PSI	4-20mA (Ri<230 ohms)	4-20 mA (Ri<170 ohms)
Supply pressure:	145 PSI	20-145 PSI	20-145 PSI
Linearity error:	<0.7% f.s.	<1.0% f.s.	<1.0% f.s.
Hysteresis:		<0.6% f.s.	<0.6% f.s.
Repeatability:		<0.5% f.s.	<0.5% f.s.

Pneumatic Flow	Standard/Low Bleed	High Gain	Super High Gain/High Flow
Pressure Gain: @87 PSI (600kPa) acc.to ISA S75.13	240:1	1100:1	1100:1

Air Delivery: @87 PSI (600kPa)	SCFM 28.3	31.8	50.0
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Air Consumption: @87 PSI	SCFM <.2	.71	1.3
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Temp Range: -40° to 185° Fahrenheit  
-40° to 85° Celsius

Air Connections: ¼" NPT or G Threads  
Gauge port: ⅛" NPT or G Threads  
Cable entry: ½" NPT or M20x1.5 or PG 13.5

Ingress & corrosion protection: Nema 4X and IP 66  
Coating: Tufram

Weight 3.8 lbs 1.7 kg

#### \*IS Approvals

Atex/Cenelec EEx ia IIC T4-T6

FM/CSA CL I Div 1 Grp ABCD  
CL I Div 2 Grp ABCD