



BLX V100E EX Explosion Proof

Dependable Products • Responsive Service



For hazardous locations requiring “explosion proof” ratings, the V100E EX unit is a rugged and reliable product for such applications. With approvals by FM, CSA, and CE, this product offers wide acceptance.

The standard V100P, pneumatic positioner can be easily fitted with the EX converter, or the unit can be shipped assembled and ready for EX installation. The standard features of the V100— a non-interactive zero and span, rugged Polyester coated aluminum housing, and flexible mounting capabilities—make this product adaptable to both rotary or linear control applications.

Specifications

Input range: 4-20mA (Ri<250ohms)
 Supply pressure: 30-145 PSI (0.2-1MPa)
 Linearity error: <1.0% f.s
 Hysteresis: <0.6% f.s
 Repeatability: <0.5% f.s

Pressure Gain:
 @87 PSI (600kPa) 75% P_{out}/P_{in}
 acc. to ISA S75.13 49% P_{out}/P_{in}

Air Capacity: SCFM (SLPM)
 @29 PSI (200kPa) 9.5 (270)
 @87 PSI (600kPa) 28.3 (800)
 @145 PSI (1MPa) 47.1 (1350)

Bleed Rate: SCFM (SLPM)
 @29 PSI (200kPa) 0.2 (5.7)
 @87 PSI (600kPa) 0.6 (17.0)
 @145 PSI (1MPa) 1.0 (28.3)

Weight: 4.9 lbs (2.2kg)
 Weight with gauges: 5.3 lbs (2.4kg)

Temp range: **Depending on electrical rating**
 Product rating:
 -4° to +185° Fahrenheit
 -40° to +85° Celsius

Air connections: 1/4" NPT (optional G threads)
 Gauges: 1/8" NPT (optional G threads)
 Cable entry: 1/2" NPT (optional M20x1.5 or PG 13.5)

Ingress & corrosion protection: NEMA 4X and IP66
 Coating: Powder Polyester

Ordering Codes

Positioner	Type	Drive	Front Cover	Indicator	Cam
V100E EX	Explosion Proof	D1-Namur D2- 1/2" square (others available)	90-90 degree 60-60 degree 45-45 degree 30-30 degree	A-arrow B-raised	C1-Standard-90° C2-45° & 90° C3-60° & 30° C4-120° & 60°

Example:

V100E-EX-D1-45-A-C3

Electropneumatic explosion proof, with namur drive, 45° cover, arrow indicator, and 45° cam.

Others: V100P Pneumatic V100E Electropneumatic-standard V100E FF Fail Freeze

Approvals

Ratings for hazardous locations:

CENELEC

Intrinsically safe: EEx ia IIC T4/T5/T6
 Flameproof: EEx d IIC T4/T5/T6

British Standard

Non incandive: Ex N II T6 for Zone 2

FM

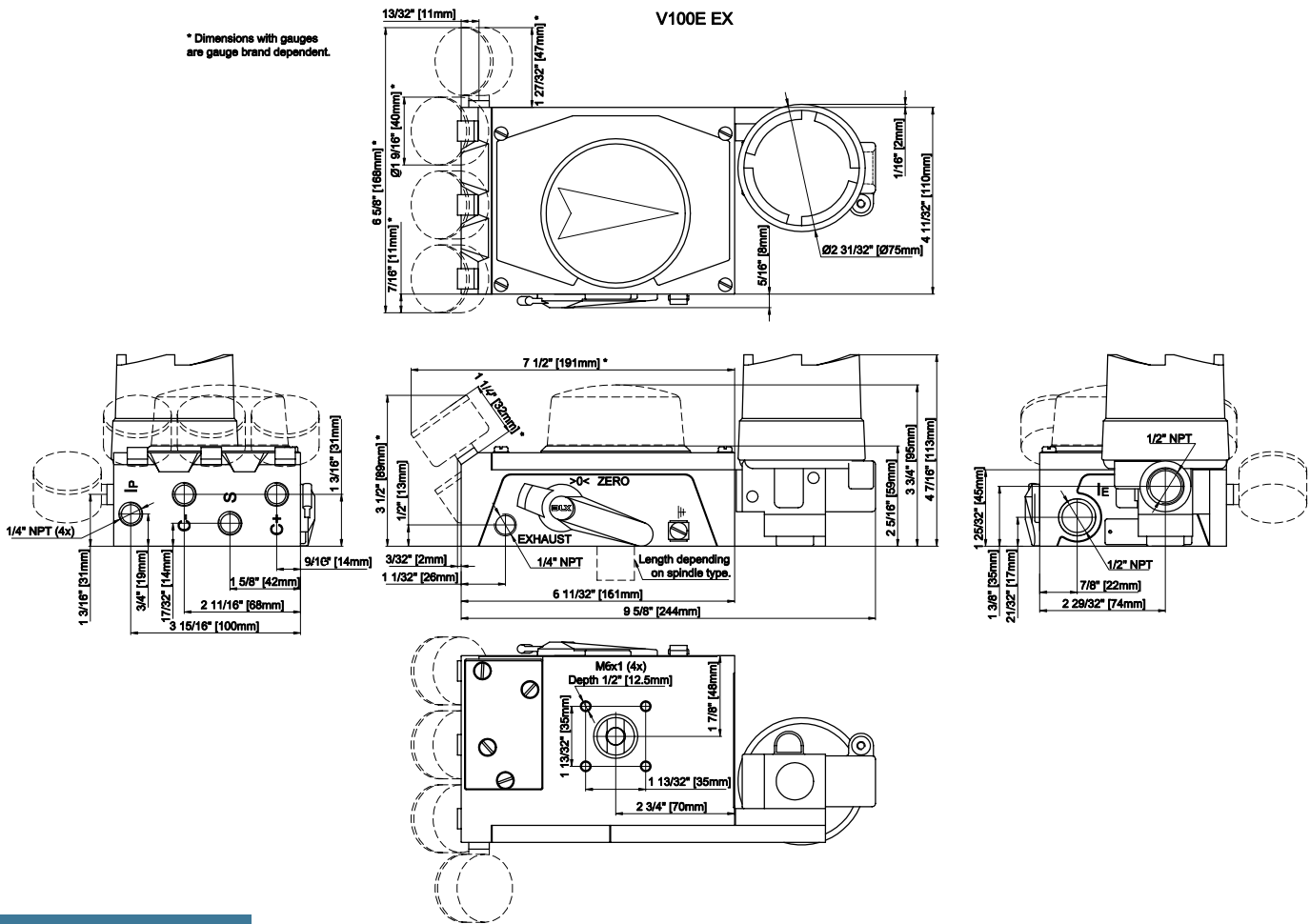
Intrinsically safe: CL I-II-III / DIV I / Grp A B C D E F G
 Non incandive: CL I / DIV2 / Grp A B C
 Explosion proof: CL I / DIV1 / Grp B C D
 CL I II III / DIV1 / Grp E F G

CSA

Intrinsically safe: CL I / DIV1 / Grp A B C D
 CL II / DIV1 / Grp E F G
 CL III
 CL I / DIV2 / Grp A B C D
 CL II / DIV2 / Grp E F G
 Explosion proof: CL I / DIV1 / Grp B C D
 CL II / DIV1 / Grp E F G

* Dimensions with gauges are gauge brand dependent.

V100E EX



Flexibility is very much a part of the V100 package. Converting from pneumatic (V100P) to electropneumatic (V100E), or to explosion proof (V100E EX) or fail freeze (V100E FF) is simple and quick.

VAC offers mounting kits (from stock) for a variety of actuators making standardization through retrofitting existing packages with the BLX positioner simple. And if we don't have the kit in stock, we will make every effort to service the application with special mounting.



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