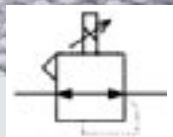




# BLX V100E FF Fail Freeze

## Dependable Products • Responsive Service



The BLX fail freeze unit offers system security with its "fail in place" capabilities in addition to its conventional I/P operation. On the loss of signal (4-20 mA) the V100E FF will literally hold the valve/actuator package in place, no matter what the actuator fail position. The unit is loop powered and does not require any special power supply.

The rugged aluminum housing and polyester coating (Nema 4X) are ideal for tough environments. Other features like a non-interactive zero and span, flexible mounting capabilities, and the ability to add a feedback module, give this product wide acceptance and several options.

### Specifications

Input range: 4-20mA  
 Supply pressure: 20-100 PSI (0, 15-0,7MPa)  
 Linearity error: <1.0% f.s  
 Hysteresis: <0.6% f.s  
 Repeatability: <0.5% f.s

Pressure Gain:  
 @87 PSI (600kPa) 750  $P_{out}/P_{in}$   
 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)

Supply Pressure Effect: Negligible  
 Loop Voltage Drop: 6 Volts  $\pm 0.5V$   
 Reverse Protection: 125mA  
 Over Current Protection 125mA

### Ordering Codes

Positioner	Type	Drive	Front Cover	Indicator	Cam
V100E FF	Fail Freeze	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-FF-D2-90-A-C1  
 Electropneumatic fail freeze, with 1/2" square drive, 90° cover, arrow indicator, standard 90° cam.

Others:  
 V100P Pneumatic  
 V100E Electropneumatic-standard  
 V100E EX Explosion Proof

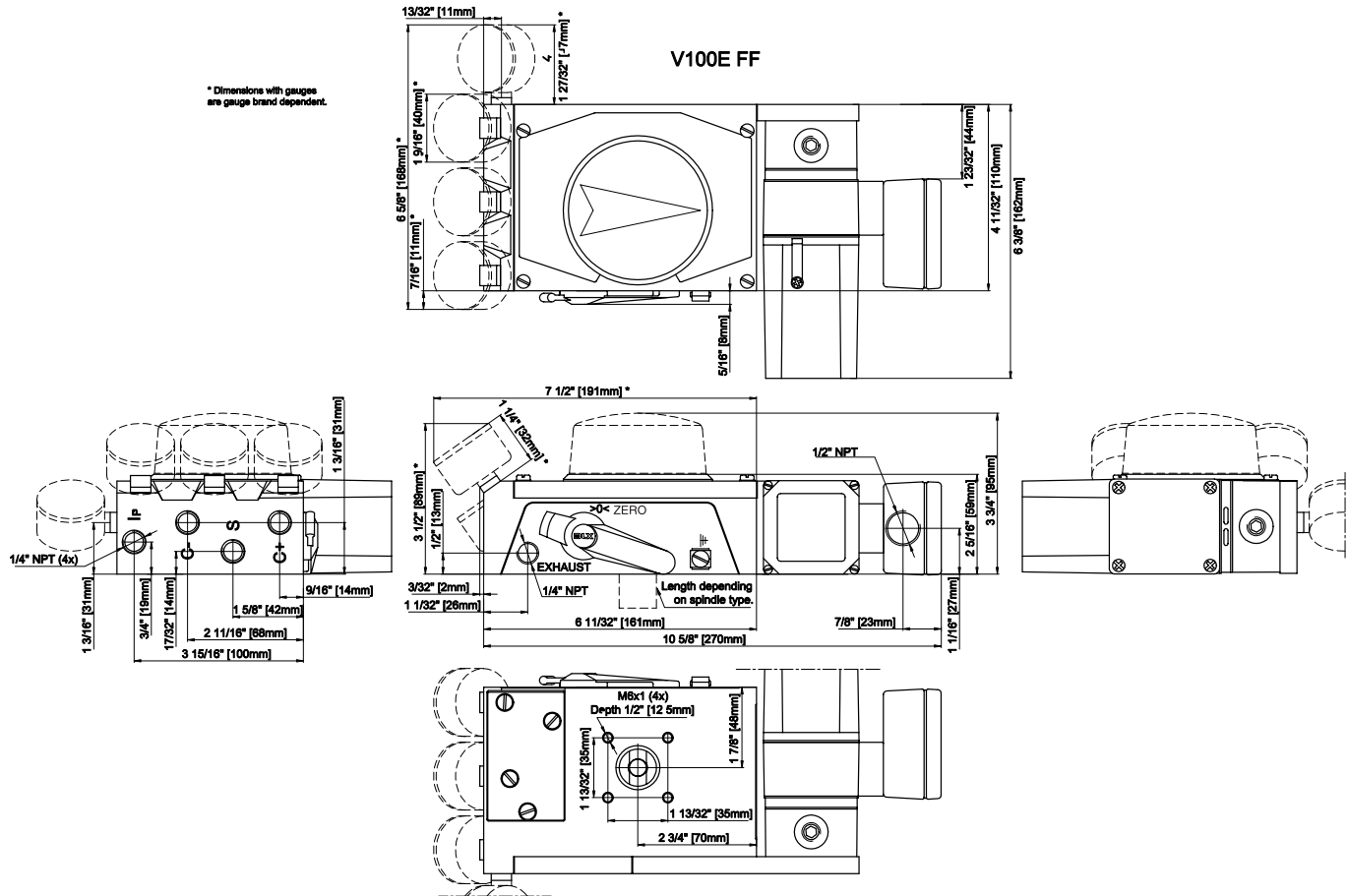
Fail Freeze Mode: Input signal falls below 2mA  $\pm 0.5mA$   
 Fail Freeze Drift Rate: 0.02% in 30 seconds (mid range)  
 Weight: 5.8 lbs (2.65kg)  
 Weight with gauges: 6.2 lbs (2.85kg)

Temp range: Product rating:  
 -4° to +158° Fahrenheit  
 -20° to +70° Celsius

Air connections: 1/4" NPT (optional G threads)  
 Gauges: 1/8" NPT (optional G threads)  
 Cable entry: 1/2" NPT (optional 30mm square connector DIN 43650)  
 Ingress & corrosion protection: NEMA 4X and IP66

Coating: Powder Polyester  
 Options: Feedback Spring for 6-30 PSI (40-200kPa) input signal. Gauges.

\* Dimensions with gauges are gauge brand dependent.



The BLX R100 feedback and V100 can be ordered as one assembly (with positioner) or the R100 can be field mounted in a matter of minutes, with no special tools or extra mounting parts needed. Available in several configurations, this modular housing allows for on/off indication or 100% feedback.



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