



# Technical Specification V100 Positioner

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## V100E FF

Input range:	4-20 mA
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
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 connectors:	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.

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### Pilot Valves:

#### W1 Low Gain-Medium Flow-Low Bleed

for better stability and lower bleed.

Pressure gain @87 PSI =300

Bleeds approx. 33% < than W3

Air capacity =10% < W3 (above chart)

#### W2 High Gain-High Flow-High Bleed

For faster response and better accuracy.

Pressure gain @87 PSI >1000

Bleeds approx. 33% > than W3

Air capacity = W3 (above chart)

#### W3 Medium Gain-High Flow-Medium Bleed

For "average" capacity and bleed

Standard Pilot Assembly

Specifications shown in above chart

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