



Technical Specification V100 Positioner

V100E EX

Input range: 4-20 mA ($R_i < 250 \text{ohms}$)
Supply pressure: 30-145 PSI (0,2-1MPa)
Linearity error: $< 1.0\% \text{ f.s}$
Hysteresis: $< 0,6\% \text{ f.s}$
Repeatability: $< 0.5\% \text{ f.s}$

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)

Weight: 4,9 lbs (2.2kg)
Weight with gauges: 5,3 lbs (2,4kg)

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

Air connectors: 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

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

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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Ratings for hazardous locations:

CENELEC

Intrinsically safe: EEx ia IIC T4/T5/T6

Flameproof: EEx d IIC T4/T5/T6

BRITISH Standard

Non Incendive: 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 incendive: 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