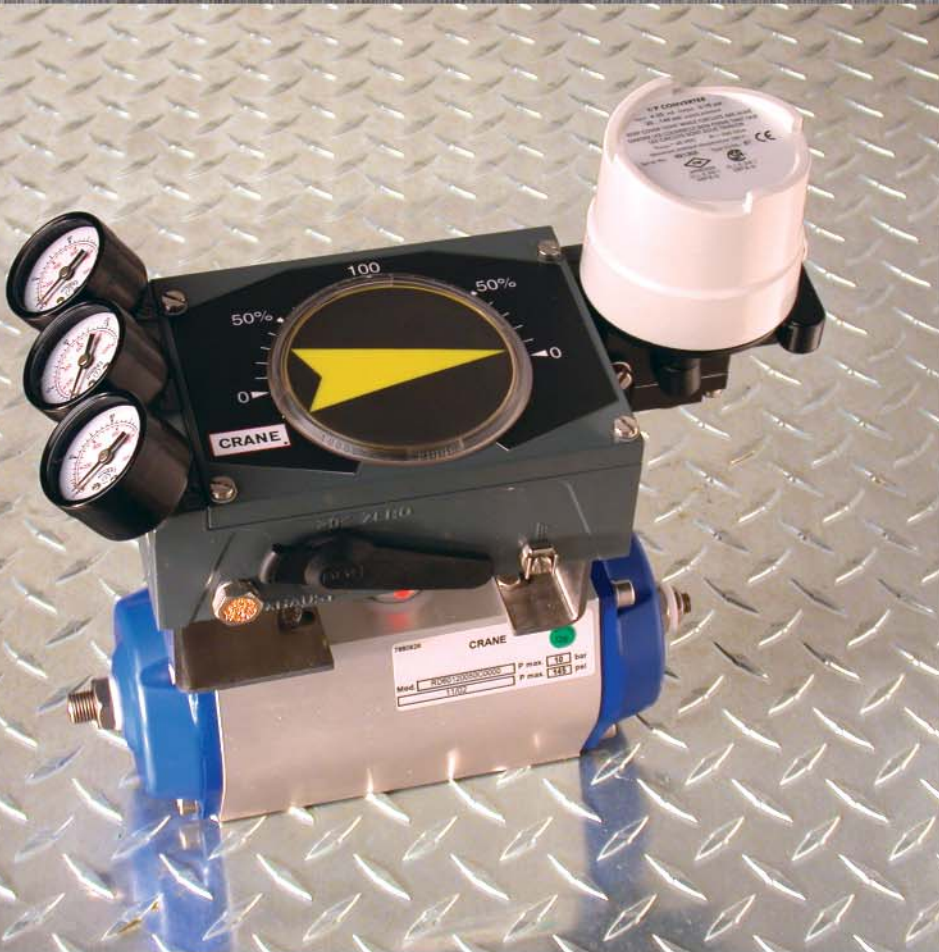


CRANE



CRANE POSITIONERS C100 Series



Technical Specifications

C100P and C100E

Specifications

Input range:	C100P 3-15 PSI (20-100kPa)
Supply pressure:	<145 PSI (<1MPa)
Linearity error:	<0.7% f.s.
Hysteresis:	<0.4% f.s.
Repeatability:	<0.3% f.s.

C100E

4-20 mA ($R_1 < 250$ ohms)
21.8-145 PSI (0.15-1MPa)
<1.0% f.s.
<0.6% f.s.
<0.5% f.s.

Air Capacity C100P, E:

	SCFM
@29 PSI (200kPa)	9.5
@87 PSI (600kPa)	28.3
@145 PSI (1MPa)	47.1

Bleed Rate C100P: C100E:

	SCFM	SCFM
	0.18	0.2
	0.53	0.6
	0.88	1.0

Temp range: -40° to 185° Fahrenheit

Air connectors: Positioner 1/4" NPT, Gauges: 1/8" NPT, Cable entry: 1/2" NPT
Ingress & corrosion protection: NEMA 4X and IP66—Powder Polyester Coated

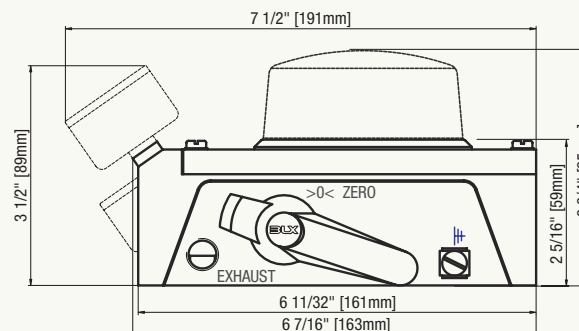
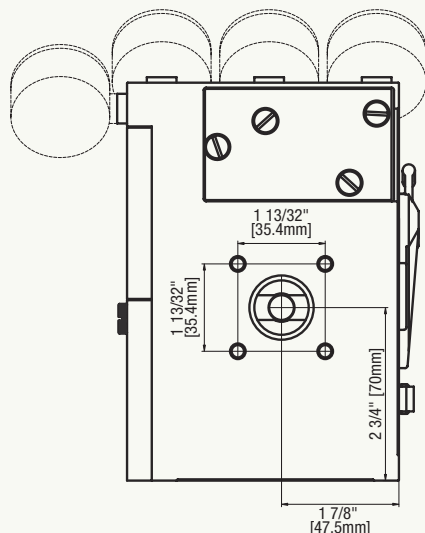
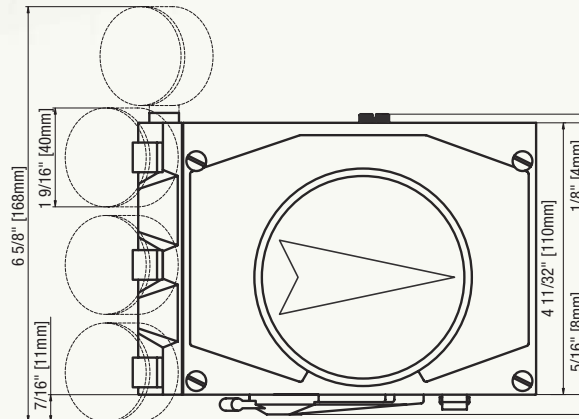
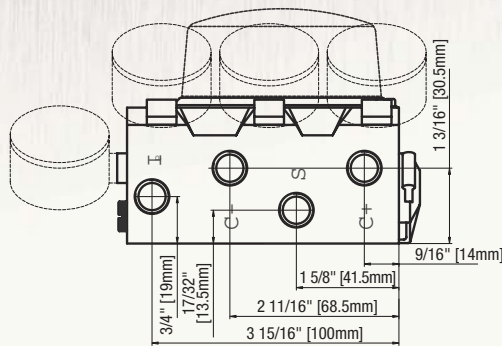
Weight: C100P 3.5 lbs (1.6kg), C100E 3.8 lbs (1.7kg)

Ordering Codes

Positioner C100	Type P-Pneumatic E-Electropneumatic EX-Explosion Proof FF-Fail Freeze IS-Intrinsically Safe	Drive D1-Namur D2- 1/2" square (others available)	Indicator A-Arrow B-Beacon	Cam C1-Standard-90° (others available)
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Example: C100E-D1-B-C1

Electropneumatic positioner, with namur drive, beacon indicator, and standard 90° cam.



Technical Specifications

C100EX—Explosion Proof

Specifications

C100EX	
Input range:	4-20mA (Ri<250 ohms)
Supply pressure:	30-145 PSI (0.2-1MPa)
Linearity error:	<1.0% f.s
Hysteresis:	<0.6% f.s
Repeatability:	<0.5% f.s

Air Capacity:	Bleed Rate:
SCFM	SCFM
@ 29 PSI (200kPa)	9.5
@ 87 PSI (600kPa)	28.3
@ 145 PSI (1MPa)	47.1
	0.2
	0.6
	1.0

Weight: 4.9 lbs (2.2kg)

Temp range: **Depending on electrical rating**

Product rating:
-40° to +185° Fahrenheit

Air connections: Positioner 1/4" NPT, Gauges: 1/8" NPT, Cable entry: 1/2" NPT

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

Ordering Codes

Positioner	Type	Drive	Indicator	Cam
C100	P-Pneumatic E-Electropneumatic EX-Explosion Proof FF-Fail Freeze IS-Intrinsically Safe	D1-Namur D2- 1/2" square (others available)	A-Arrow B-Beacon (others available)	C1-Standard-90° (others available)

Example: C100EX-D1-A-C1

Electropneumatic explosion proof positioner, namur drive, arrow indicator, and standard 90° cam.

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 II III / DIV1 / Grp E F G

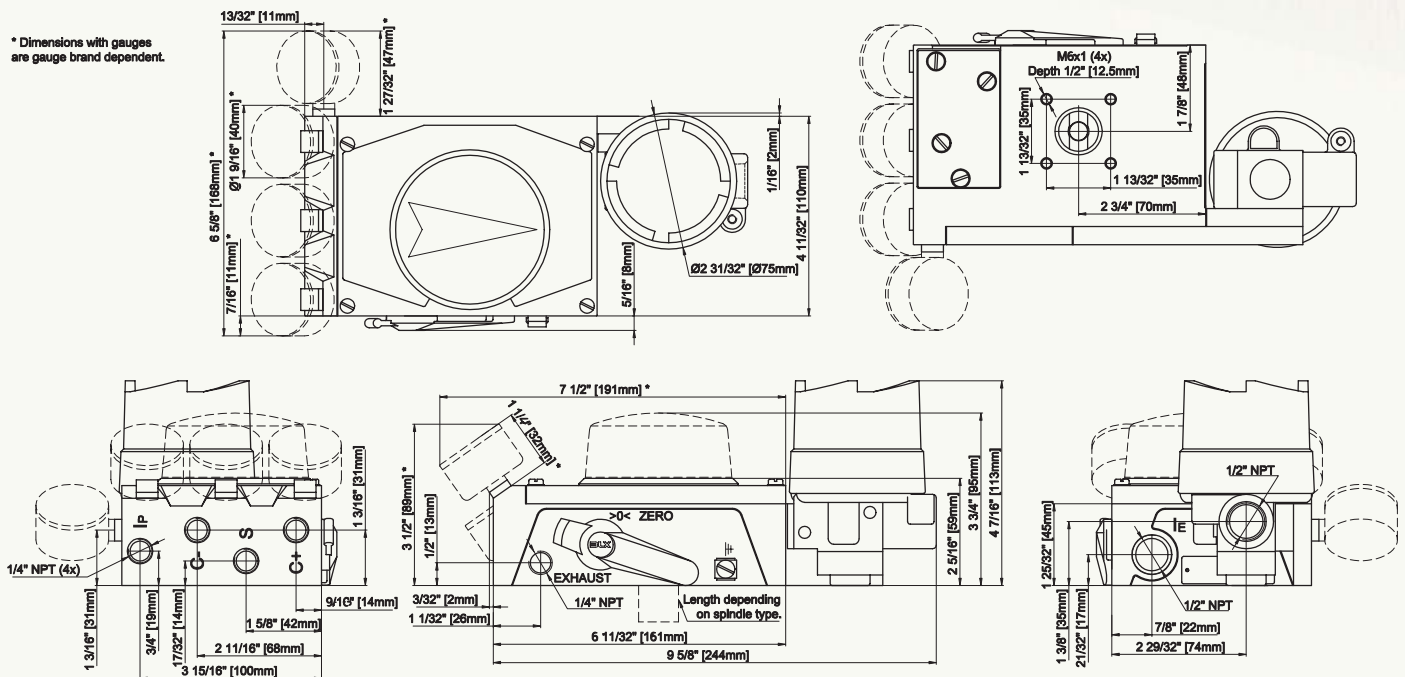
CSA

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.





C100E EX



C100E FF



C100E



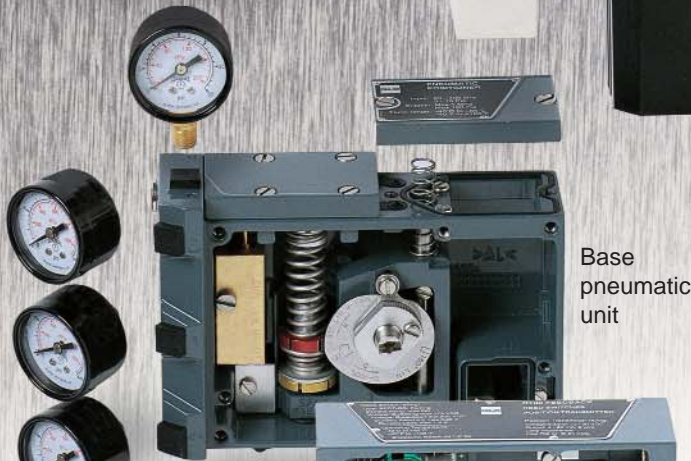
with explosion proof (EX) I/P



with fail freeze (FF) I/P



with Nema 4X I/P



Base pneumatic unit



add feedback module at any time (switches and/or 4/20 transmitter)



add standard cover with arrow indicator



C100P

add a beacon indicator (yellow/black or red/green)

Modularity = Flexibility = \$avings

The Crane Series C100 Valve Positioner offers the flexibility to meet many industry applications and needs. From the base pneumatic positioner, to standard electropneumatic, to IS and EX and even Fail Freeze (FF) versions, the Crane positioner offers you a complete package.



CR100

An optional feedback module, CR100, can be added to offer position feedback. This can include two switches and/or a 4-20 mA module. This simple, rugged, but reliable positioner product can be ordered to your needs or is field convertible.

The Crane Series C100 Valve Positioner and CR100 Feedback Module are designed with the customer in mind by converting modularity and flexibility into \$avings!



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