

High-Performance, Cost-Effective C-Frame Solenoids

Jewell Instruments delivers proven levels of performance and high reliability with its new MAGNETEC family of open-frame solenoids. Their coil systems are terminated with .025 inch square pins to accommodate commercially available mating terminals and connectors. The use of terminals inserted in a coil bobbin flange is far more cost effective than electrically terminating an open-frame solenoid with long leads. The materials used in the coil system are capable of withstanding a total temperature of 130°C (ambient plus heat rise)!

Benefits

High Power Efficiencies — Very magnetically-efficient open-frame design optimizes power consumption.

Proven Performance — Built for dependability and extremely reliable under rugged conditions.

Cost-Effective Design — Jewell Instruments' experience in high-volume production results in a design that is less labor-intensive to manufacture.

Typical Applications Include:

- ATM machines
- Copiers
- Gambling machines
- Tape drives
- Automotive
- Disk drives
- Printers
- Circuit breakers
- Bill changers
- Fax machines
- Scanners

Solenoid Solutions That Fit Your Unique Needs

For over 25 years, Jewell Instruments has provided businesses with high-quality, standard and custom solenoids. We also offer next-level assembly support in addition to designing and manufacturing electronic modules that interface with solenoids and other electromechanical devices.

Superb product design sets us apart from the competition with our engineering expertise covering mechanical, electro-mechanical, magnetics and electronics. Add that to our broad applications understanding and our decades of solenoid sales experience. The result is a solid reputation for quality, reliability, innovative solutions, unmatched customer service and very flexible production scheduling.



Top: C206 Push-Type
Bottom: C204 Pull-Type

Technical Information

Insulation Material

Class B Rating (standard)

Maximum Operating Temperature

130°C (266°F)

Dielectric Strength

50 Volts and Under: 500 VRMS

Over 50 Volts: 1,000 VRMS

Standard Voltages and Duty Cycles

Voltage, DC – 6, 12, 24

Duty Cycles – 10%, 25%, 100%

Weight

Plunger – 0.05 oz.

Solenoid Total – 0.17 oz.

Plunger Cone Angle

60 Degrees (standard)

Others Available

Termination

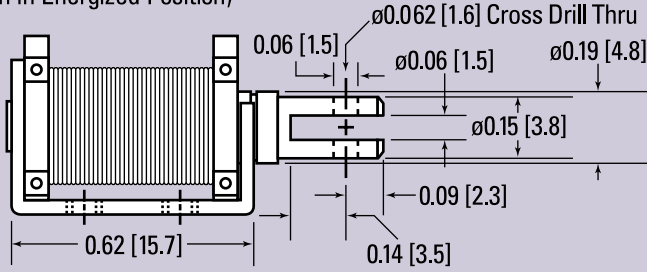
.025 Square, Phosphor Bronze

Pins, .30 Long

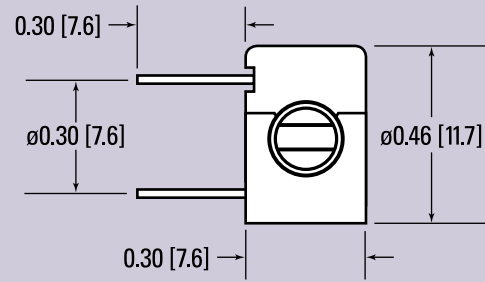
Dimensionals

Inches [mm]

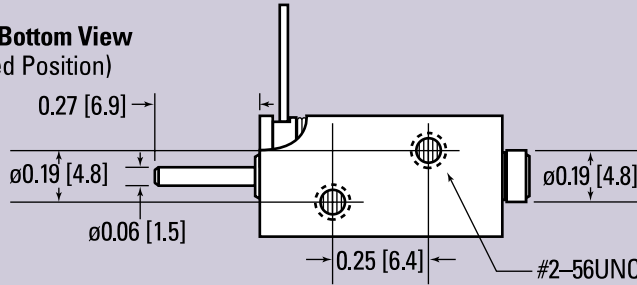
C2 Pull Version – Side View
(Shown in Energized Position)



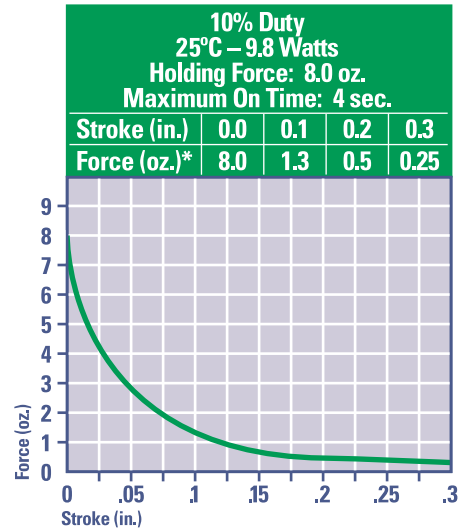
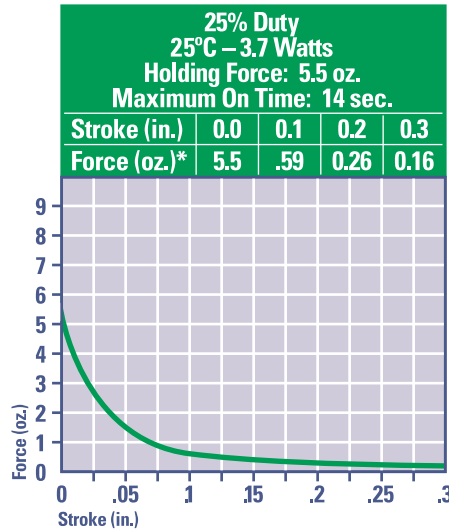
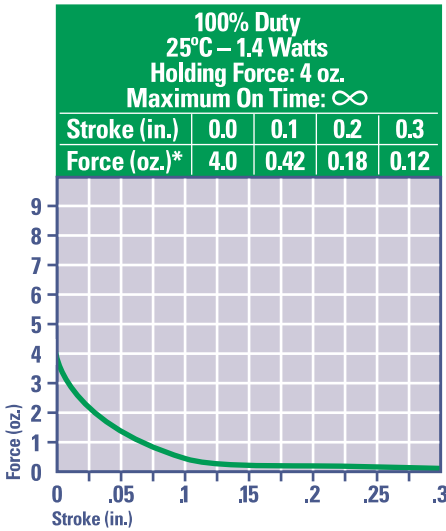
End View



C2 Push Version – Bottom View
(Shown in Energized Position)



Unless Otherwise Specified
 .x = .015[.4]
 .xx = .010[.3]
 .xxx = .005[.13]



* Typical Force @ 25°C and Nominal Rated DC Voltage For Pull Type Solenoid

Pull Type	100% Duty – 1.4 Watts		25% Duty – 3.7 Watts		10% Duty – 9.8 Watts	
Voltage	Resistance	Part Number	Resistance	Part Number	Resistance	Part Number
6 VDC	25.7 OHMS	C2040600	9.73 OHMS	C2040625	3.67 OHMS	C2040610
12 VDC	102.9 OHMS	C2041200	38.9 OHMS	C2041225	14.7 OHMS	C2041210
24 VDC	411.4 OHMS	C2042400	155.7 OHMS	C2042425	58.8 OHMS	C2042410

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Voltage	Resistance	Part Number	Resistance	Part Number	Resistance	Part Number
6 VDC	25.7 OHMS	C2060600	9.73 OHMS	C2060625	3.67 OHMS	C2060610
12 VDC	102.9 OHMS	C2061200	38.9 OHMS	C2061225	14.7 OHMS	C2061210
24 VDC	411.4 OHMS	C2062400	155.7 OHMS	C2062425	58.8 OHMS	C2062410