CR9500 Industrial & CR9503 Heavy-Duty Solenoids

Typical Applications

Used on brakes, conveyors, gates, safety devices, punch presses, clutches, machine tools, door openers, and valves.

Function

A solenoid is an electromagnet, which applies a straight-line force, in a push or pull motion, when energized. It consists of a frame, plunger, and coil. When the coil is energized, a magnetic field is set-up in the frame. This magnetic field causes the plunger to move within the frame.

- Tool lifting for return strokes; to initiate a machining operation
- Magnetic brakes where solenoid exerts force on the brake shoes or spring set where, through a lever system the solenoid releases the brake on application of power
- Safety devices where the energized solenoid holds a latch or locking pin in the open position (in case of power failure, the latch is released and moves into the locked position)
- Contactors, where the solenoid is used to actuate the contacts
- Lever mechanisms to engage or disengage a clutch
- Latches for window and door openers
- Variable reactors for control of small motors and amplifier circuits
- Hopper gate actuators for automatic and remote control
- Paper, plastic, and thin metal punches where the solenoid drives the punch
- Magnetic drivers for small pins and nails
Product Features

CR9500 Industrial Strong-Box Solenoids

✓ Long Life: Unequaled mechanical life
✓ Coil: AC coil forms only
✓ Encapsulated Coil: Moisture-, oil-, and shock-resistant
✓ Rating: Nine different forms available, 24 different ratings up to 40 Lbs. at 1/2-inch stroke or 36 Lbs. at 1-inch stroke
✓ Flexible Mounting: Five different options; end, either side, throat, or elimination of brackets and use of through bolt
✓ Versatility of Wiring: Provisions for either lead or terminal type connections
✓ Renewal Parts: Available

CR9503 Heavy-Duty Industrial Solenoids

Important: the load should be kept as close to the recommended value as possible when applying solenoids.

• If load is too large, action will be sluggish, and there will not be enough pull to compensate for line-voltage variations, may result in burned-out coils.
• If load is too light, excess energy results in excessive hammer blows on the solenoid and reduces its life.

✓ Long Life: Unequaled mechanical life
✓ Coil: AC coil forms only
✓ Rating: 11 solenoid sizes and over 12 different voltage ratings
✓ Stroke Type: Available from 3/4-inch up to 3-inch stroke length, Push or Pull
✓ Renewal Parts: Available