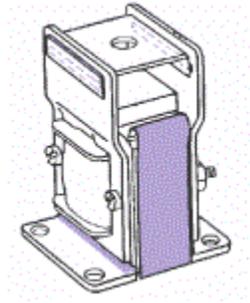


**Decco INDUSTRIAL SOLENOIDS OFFER THESE IMPORTANT ADVANTAGES:**

**LONG SERVICE LIFE**

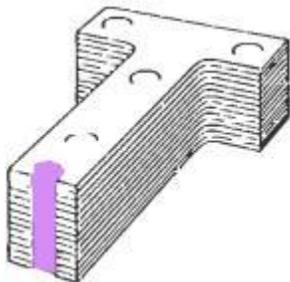
Over our many years in the industry our staff of solenoid engineering specialists have been involved with every conceivable aspect of solenoid design, application and performance. This accumulated know-how is reflected in the fine quality and performance of our solenoids.



Most vertical Decco solenoids are equipped with a patented rubber cushion between the solenoid frame and the base plate. This cushion absorbs the impact force of the plunger when the solenoid closes, reduces hammering of metal parts and greatly extends the life of the unit.

The complete solenoid assembly is securely held together by a flat steel spring, which also flexes to absorb impact shock.

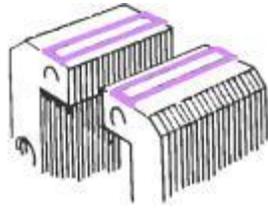
On push type solenoids a shock-mounted backstop absorbs the impact when the plunger returns to open position.



A tool steel anvil is provided at the bottom of push type solenoid plungers. This anvil distributes the load evenly across the plunger and resists wear for longer service life.

The plungers and field stacks of Decco solenoids are built up of laminations made of silicon steel, which will not develop residual magnetism. Because there is no residual magnetism, breakaway springs (which are susceptible to failure) are not necessary.

The plunger is guided by a heat-treated beryllium copper liner and a glass filled nylon sleeve on the top of the nylon bobbin. Under normal operating conditions these guides will substantially lengthen service life.



Shading coils on Decco solenoids are silver soldered in position to prevent breakage or dropping out under continuous, heavy service.

#### **QUIET OPERATION**

Decco shading coil surfaces are carefully machined and plunger contact surfaces are finished to hold 60-cycle hum below the audible level. Each Decco solenoid is tested for quietness, under rated load conditions.

#### **COOLER OPERATING TEMPERATURES**

Decco solenoids generate less heat ... run cooler because electrical losses are held to a minimum. Their special silicon steel laminations will not “age” magnetically, so hysteresis loss is greatly reduced. Furthermore, each lamination is insulated from the others to cut eddy current losses.

Each solenoid receives a special black coating, which aids heat dissipation for cooler operation. During manufacture, each Decco unit is checked for controlled air-gap to assure lowest possible holding current and heat build-up.

#### **REPLACEABLE COILS**

Decco solenoid coils are easily replaced after long service or for a change in electrical supply characteristics.

#### **UNIFORM, SUPERIOR QUALITY**

Careful, scientific selection of materials, quality control inspections and tests assure uniformly high-level performance.

#### **A MODEL FOR EVERY APPLICATION**

A complete range of strokes and forces are available to meet your specific needs.

#### **CUSTOM ENGINEERING**

Decco will design and build special solenoids for specific applications or unusual requirements.