

# Parker Product Datasheet



Parker's broad range of solenoid and proportional cartridge valves are complemented by a wide selection of options in the Super Coil series of IP69K DC and AC coils. Multiple voltage and termination styles are standard cataloged options.

**PART NUMBER:** CAP012D  
**CONNECTION TYPE:** Din  
**POWER CONSUMPTION:** 28 - High Watt  
**VOLTAGE:** 12 VDC  
**DIODE:** No

## PRODUCT OVERVIEW

The robust design of Parker's 5/8" Super Coil is especially suited for challenging environments. Internal wires have a class N rating, providing longer life at typical temperatures. All coils are DC wound. An internal full wave rectifier is added for AC current, eliminating inrush current, and allowing for voltage interchangeability. Coils are offered in a wide variety of terminations, including integrally molded connectors and voltages to meet your system requirements. Coil is encased in a thermoplastic polyester resin. This allows for higher temperature exposure and less distortion. This resin is also resistant to moisture, caustic solutions and fungus providing protection for coil windings. Zinc plated low carbon steel frame surrounds coil, increasing flux density. Low carbon steel provides better magnetic properties and greater permeability. Internally molded diodes are available. Polarity is molded into coil for ease of installation. External ridges provide a larger coil surface area, which allows for better heat dissipation. Parker's Super Coil is a robust IP69K product that has undergone extensive water dunk, endurance, high pressure water spray, and chemical solvent testing.

#### Markets:

- Oil and Gas
- Material Handling Equipment
- Construction Equipment
- Agriculture Machinery
- Vocational & Municipal Equipment
- Transportation

#### Features/Benefits:

- 5/8 inch inner diameter
- Integral Deutsch connector coil exceeds IP69K standards
- Integral Deutsch connector coil thermal shock dunk test rated
- Integral Amp Jr. coil exceeds IP67 standards for thermal shock, water resistance and “dunk capability”
- Universal 50/60 Hz operation
- Waterproof coil hermetically sealed, requires no O-rings or waterproofing kits
- External plated steel flux-carrying band (unlike encapsulated band) enables coil to withstand severe thermal shocks without cracking
- Symmetrical coil can be reversed without affecting performance

#### Applications:

- Power Units
- Drills
- Presses
- Mixers
- Balers
- Combines
- Cranes
- Compactors

For additional voltage or termination options, please consult the factory for details.

#### Additional technical insight:

The 5/8 inch coils are most commonly used with 10 and 12 size cartridges. Typically, low watt coils are used in low pressure (less than 3000 psi) applications and the high watt coils in high pressure (up to 5000 psi) applications.

## TECH SPECIFICATIONS

|                                      |                                  |
|--------------------------------------|----------------------------------|
| <b>MAXIMUM OPERATING TEMPERATURE</b> | 200 °C                           |
| <b>MAXIMUM OPERATING TEMPERATURE</b> | 392 °F                           |
| <b>DIVISION</b>                      | Hydraulic Valve Systems Division |
| <b>DIVISION</b>                      | Hydraulic Valve Systems Division |
| <b>MAXIMUM OPERATING PRESSURE</b>    | n/a                              |
| <b>FLOW RATE</b>                     | n/a                              |
| <b>MINIMUM OPERATING TEMPERATURE</b> | -40 °C                           |
| <b>MINIMUM OPERATING TEMPERATURE</b> | -40 °F                           |
| <b>FOR FLUID TYPE</b>                | n/a                              |
| <b>BODY MATERIAL</b>                 | n/a                              |
| <b>SEAL MATERIAL</b>                 | n/a                              |
| <b>WEIGHT</b>                        | 0.29 kg                          |
| <b>WEIGHT</b>                        | 0.64 lb                          |
| <b>MAXIMUM FLOW RATE</b>             | n/a                              |
| <b>FUNCTION</b>                      | 5/8' Super Coil                  |
| <b>ACTUATION TYPE</b>                | n/a                              |
| <b>CURRENT</b>                       | 2.33 A                           |
| <b>COIL TYPE</b>                     | Puissant                         |
| <b>DUTY CYCLE</b>                    | Continuous @ 100% Voltage        |
| <b>RESISTANCE</b>                    | 5.14 Ω                           |