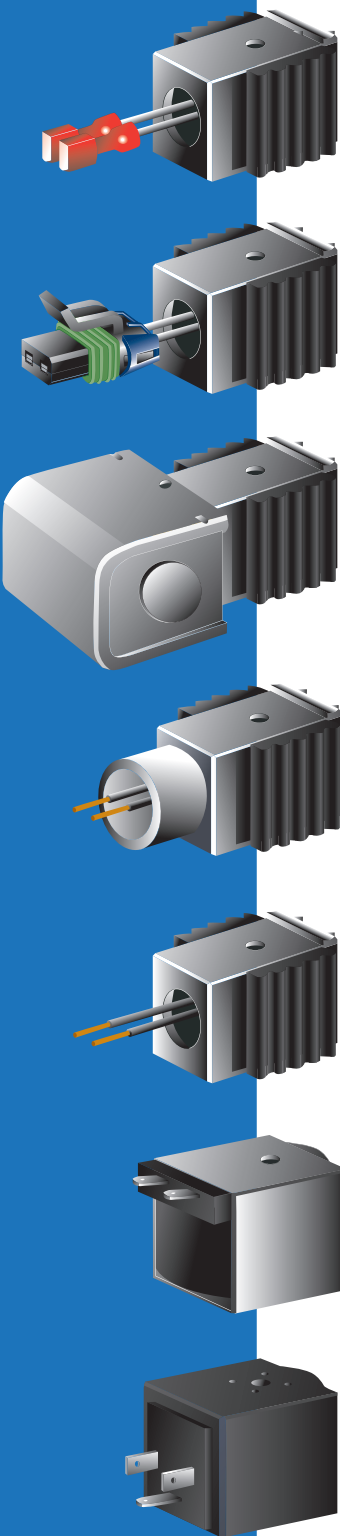


SOLENOID VALVE

# COIL Nomenclature



Form 30-167  
November 2012

Table I

The low force coils are identified by the coil number as follows:

#1 Size Coils\*

|         |        |
|---------|--------|
| MKC-118 | 24/60  |
| MKC-119 | 120/60 |
| MKC-121 | 240/60 |
| MKC-124 | 240/50 |
| MKC-127 | 24/50  |
| MKC-129 | 120/50 |
| MKC-135 | 415/50 |

#2 Size Coils\*

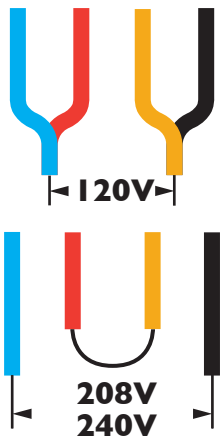
|          |          |
|----------|----------|
| MKC-218  | 24/60    |
| MKC-219  | 120/60   |
| MKC-221  | 240/60   |
| MKC-224  | 240/50   |
| MKC-227  | 24/50    |
| MKC-229  | 120/50   |
| MKC-235  | 415/50   |
| MKC-260  | 24/50-60 |
| OMKC-219 | 120/60   |
| OMKC-221 | 240/60   |
| OMKC-224 | 240/50   |
| OMKC-229 | 120/50   |

\*For low force coils, please consult  
Sporlan Division for availability.

| COIL<br>KIT     | 24 VOLTS/<br>50-60 CYCLES |         | 120 VOLTS/<br>50-60 CYCLES |         | 240 VOLTS/<br>50-60 CYCLES |         | TRANSFORMER<br>RATING<br>VOLTS-AMPERES<br>FOR 100% OF RATED<br>MOPD OF VALVE |
|-----------------|---------------------------|---------|----------------------------|---------|----------------------------|---------|------------------------------------------------------------------------------|
|                 | CURRENT-AMPERES           |         | CURRENT-AMPERES            |         | CURRENT-AMPERES            |         |                                                                              |
|                 | INRUSH                    | HOLDING | INRUSH                     | HOLDING | INRUSH                     | HOLDING |                                                                              |
| MKC-1           | 1.9                       | .63     | .39                        | .14     | .19                        | .09     | 60                                                                           |
| MKC-2<br>OMKC-2 | 3.1                       | 1.4     | .60                        | .26     | .31                        | .13     | 100                                                                          |

- All current values are based on 60 cycles.
- Volt-ampere ratings are based on inrush currents.
- Above values are based on the most severe conditions. - Consult Sporlan Division for coil characteristics on specific valve types.

Wiring Schematic —  
Dual Voltage Coil



Lead Wire Color Code

For ease of identification, coils are manufactured with the following colored lead wires:

|               |                          |
|---------------|--------------------------|
| 24/50-60      | Orange                   |
| 120/50-60     | Blue                     |
| 208/50-60     | Yellow                   |
| 208-240/50-60 | Red                      |
| Dual Voltage  | Black, Blue, Yellow, Red |

All other coils are supplied with black lead wires.



Sporlan Division, Parker Hannifin Corporation  
206 Lange Drive, Washington, MO 63090 USA  
phone 636-239-1111 • fax 636-239-9130  
www.sporlan.com

|     |     |    |   |           |   |   |   |    |   |
|-----|-----|----|---|-----------|---|---|---|----|---|
| (O) | MKC | -I | ? | I20/50-60 | J | A | K | 30 | Y |
|-----|-----|----|---|-----------|---|---|---|----|---|

Spade and DIN coils will not have these designations after the voltage

- \*Connector on end of leadwire
- B** – 1/4" female spade disconnect, barrel insulated, both wires (N/A)
- C** – 1/4" female spade disconnect, fully insulated both wires
- P** – 1/4" female spade disconnect, fully insulated, only on one wire
- Y** – 1/4" fork terminal, barrel insulated
- N** – Packard Connector, metri-pak #15300027
- N2** – Packard Connector, weather-pak #12015792
- N3** – Packard Connector, weather-pak #12010973

- Leadwire length in inches, if different from below
- Junction box – 6 inches unless otherwise specified
- Conduit – 20 inches unless otherwise specified
- Lead only – 20 inches unless otherwise specified
- Note:** Length is measured from the end of the wire to the point where it enters the molded coil

- Leadwire color
- K** – Black; used on all DC coils and odd voltages not listed below
- M** – Blue; used on 120/50-60 coils
- N** – Red; used on 208-240/50-60 coils
- Q** – Orange; used on 24/50-60 coils
- \*L** – White; special used only on one coil, customer request
- U** – Red/Black/Yellow/Blue used on Dual voltage coils (4 wires)

- Leadwire insulation thickness (all but three coils are "A")
- A** – 1/32" thick insulation, 18 AWG, 125°C, 600V
- \*B** – 4/64" thick insulation, also know as "appliance leadwire", 18 AWG, 125°C, 600V

- J** – Junction box
- C** – Conduit Boss, NEMA 4 Watertight
- L** – Leads only, also called "less boss and box"

- Voltage rating:
- Standard – 24/50-60, 120/50-60, 208-240/50-60, Dual (120-208-240/50-60), 12DC, 24DC
- Others – Upon request and review

- Coil termination type:
- Blank – leads
- S or TS** – Top Spade
- E** – DIN

- Coil size: These are shown in the catalog at the specifications section for each valve
- 1** – e.g.: E2, A3, E3, E5, B/E6, E35, W3, W6, R183, R184, R246, SORIT, SORIT-PI, SHGB8, B5D, 8D, 12D, 16D (12/03 and after), OLDR16 etc.
- 2** – e.g.: B/E9, B/E10, B/E14, B/E19, B/E25, B33, E34, E42, 16D (Prior to 12/03), W14, W19, W25, DDR, OLDR15, SHGB15, etc.
- Note:** Three digits in this position indicate special "low-force" coil, e.g. MKC-119 120/60 JAK, see Table 1

- Molded Kit Coil**

- Blank – Used on normally closed valves
- O** – Used on normally open valves, the valve name will start with O, as in OE25
- Also used on rapid cycle valves

\* Min. order qty. is required. Please consult with Sporlan Division for availability.  
For items with strikethrough, please consult with Sporlan Division.

