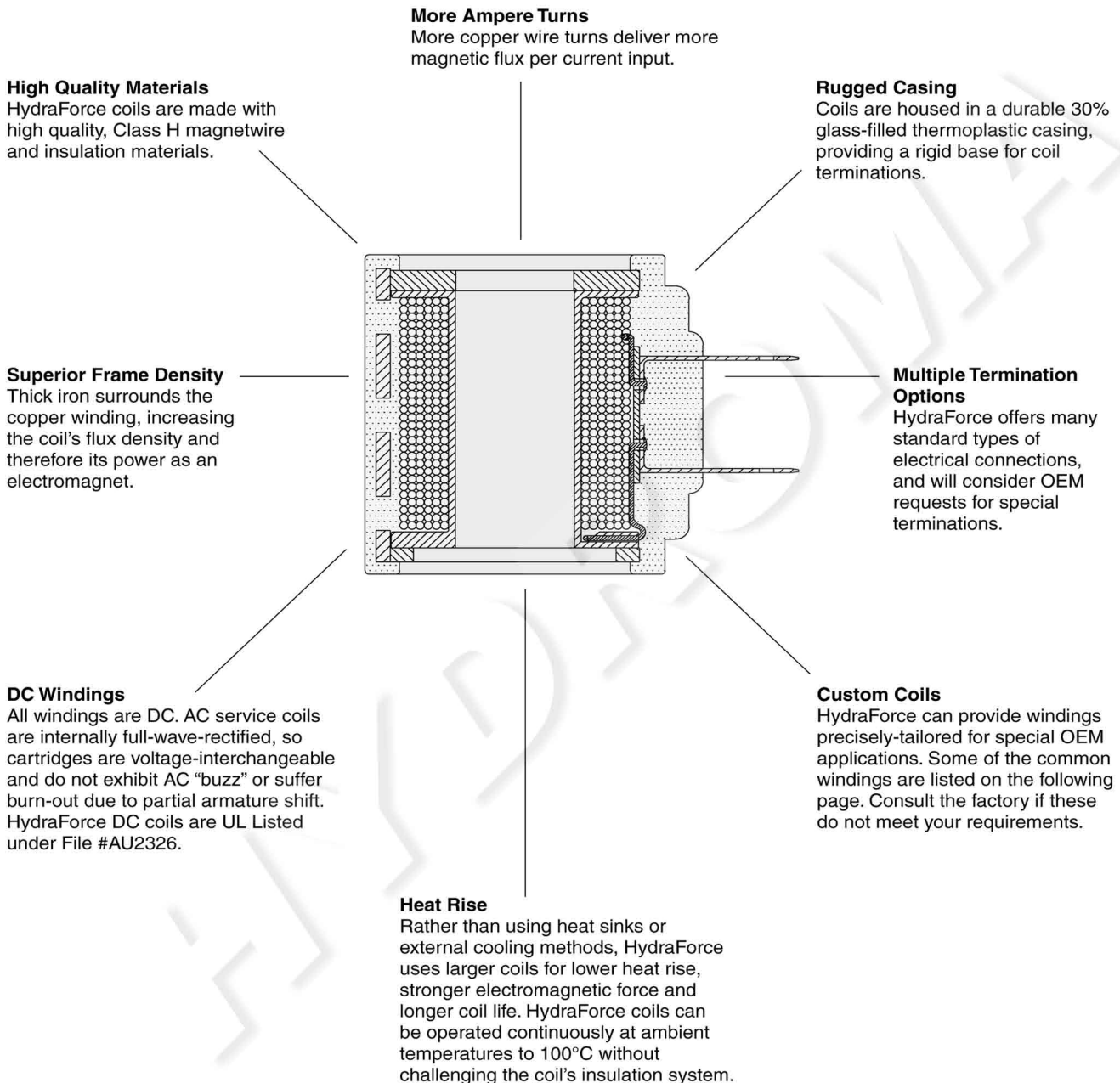


Part number:

## COILS AND ELECTRONIC CONTROLS

### **Standard Coils and Proportional Valve Coils**

#### WHY HYDRAFORCE STANDARD COILS OUTPERFORM COMPETITIVE UNITS



# Standard Coils and Proportional Valve Coils

## COMMON WINDING SPECIFICATIONS

| 08, 80 Size Coil Data<br>(14.7 Watts) |                                   |                                 |
|---------------------------------------|-----------------------------------|---------------------------------|
| Volts                                 | Resistance<br>(DC) @ 20°C<br>Ohms | Initial<br>Current Draw<br>Amps |
| <b>DC Service</b>                     |                                   |                                 |
| 6*                                    | 2.46                              | 2.44                            |
| 10                                    | 6.8                               | 1.47                            |
| 12                                    | 9.8                               | 1.22                            |
| 20*                                   | 27.2                              | 0.74                            |
| 24                                    | 39.3                              | 0.61                            |
| 30*                                   | 61.4                              | 0.49                            |
| 36                                    | 88.3                              | 0.41                            |
| 48                                    | 156.6                             | 0.31                            |
| 72*                                   | 352.4                             | 0.20                            |
| <b>AC Service</b>                     |                                   |                                 |
| 24                                    | 31.2                              | 0.61                            |
| 115                                   | 765.5                             | 0.13                            |
| 230                                   | 3035.0                            | 0.06                            |

\*Special Order Coils

| 10, 38, 58, 12, 52, 16, 56 Size<br>Coil Data (20 Watts) |                                   |                                 |
|---------------------------------------------------------|-----------------------------------|---------------------------------|
| Volts                                                   | Resistance<br>(DC) @ 20°C<br>Ohms | Initial<br>Current Draw<br>Amps |
| <b>DC Service</b>                                       |                                   |                                 |
| 6*                                                      | 1.8                               | 3.33                            |
| 10                                                      | 4.8                               | 2.08                            |
| 12                                                      | 7.2                               | 1.67                            |
| 20*                                                     | 19.0                              | 1.05                            |
| 24                                                      | 28.8                              | 0.83                            |
| 30*                                                     | 43.2                              | 0.69                            |
| 36                                                      | 64.8                              | 0.56                            |
| 48                                                      | 110.2                             | 0.44                            |
| 72*                                                     | 249.8                             | 0.29                            |
| <b>AC Service</b>                                       |                                   |                                 |
| 24                                                      | 23.6                              | 0.83                            |
| 115                                                     | 568.0                             | 0.17                            |
| 230                                                     | 2304.0                            | 0.09                            |

\*Special Order Coils

| 70 Size Coil Data<br>Proportional Coil Data |                                   |                                        |
|---------------------------------------------|-----------------------------------|----------------------------------------|
| Volts                                       | Resistance<br>(DC) @ 20°C<br>Ohms | Nominal I-Max.<br>Current Draw<br>Amps |
| 12                                          | 5.0                               | 1.50                                   |
| 24                                          | 20.0                              | 0.75                                   |

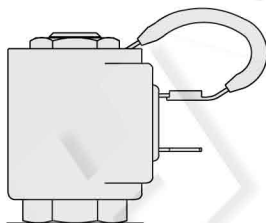
| EHPR Coil Data<br>Proportional Coil Data |                                   |                                        |
|------------------------------------------|-----------------------------------|----------------------------------------|
| Volts                                    | Resistance<br>(DC) @ 20°C<br>Ohms | Nominal I-Max.<br>Current Draw<br>Amps |
| 10                                       | 3.1                               | 1.50                                   |
| 12                                       | 5.4                               | 1.20                                   |
| 20                                       | 12.5                              | 0.75                                   |
| 24                                       | 21.7                              | 0.60                                   |

## COIL INFORMATION

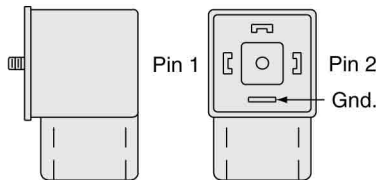
- AC service coils are internally rectified, and can be used in 50 or 60 cycle (Hz) lines.
- Special voltages and terminations are available for OEM applications; consult factory.
- Coil should always be installed with lettering facing up.
- Standard coils are not hermetically sealed. For applications requiring water- or weather-resistant coils, see page 3.400.1
- AC voltage service with transient surges over 1000 volts may require that a varistor be placed in parallel at the coil.
- EG option coils do not use ground terminal. Pins 1 and 2 are not polarity-sensitive.

| Voltage | Varistor Part No.                                  | Joule Rating Required |
|---------|----------------------------------------------------|-----------------------|
| 115     | GE: V150LA10A<br>Siemens: S10R150<br>or equivalent | 45 minimum            |
| 230     | GE: V250LA40A<br>Siemens: S20R250<br>or equivalent | 130 minimum           |

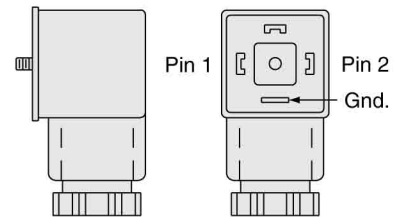
## COIL ACCESSORIES



**Coil Ground Strap  
for DS Coils**  
HF Part No. 6502200



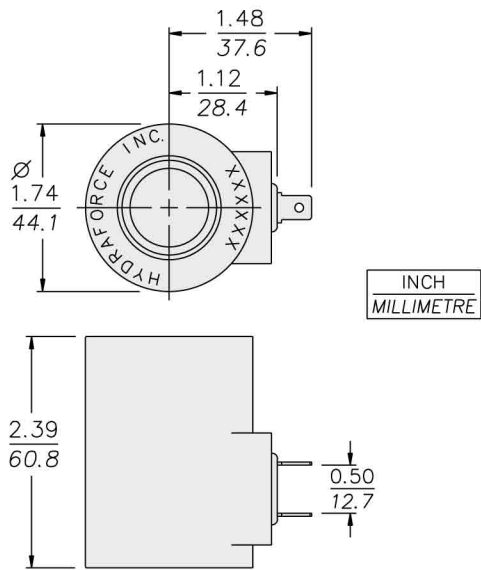
**DIN 43650  
1/2" Conduit to Connector**  
HF Part No. 6110001



**DIN 43650  
Cable Gland PG 9  
(7 mm nominal cable diameter)  
HF Part No. 6110002  
or Cable Gland PG 11  
(9 mm nominal cable diameter)  
HF Part No. 6110005**

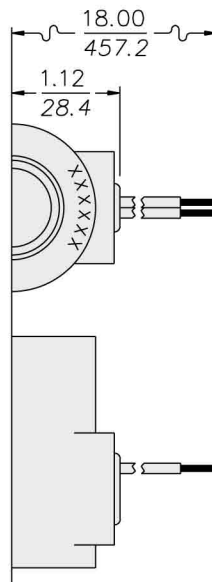
# Proportional Valve Coils

## SIZE 70 COIL INFORMATION



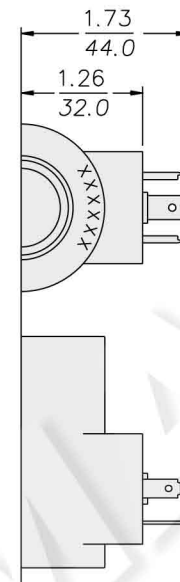
**S**  
Dual Spades  
SAE J858a

[Coil 70\\_DS STP Files](#)



**L**  
Dual Leads  
18 Gauge

[Coil 70\\_DL STP Files](#)



**G**  
DIN 43650  
Connector

Pins 1 and 2 are not  
polarity-sensitive.  
Ground pin is not used.

[Coil 70\\_DG STP Files](#)

| Voltage | Part Number Suffix |         |         |
|---------|--------------------|---------|---------|
|         | S                  | L       | G       |
| 12 VDC  | 6507112            | 6507212 | 6507612 |
| 24 VDC  | 6507124            | 6507224 | 6507624 |

Coil Weight: 320 g. (11.2 oz.)