

Surge Suppression

## **P5600 SERIES** MINI, ISO AND SUB-MICRO MICRO PROTECTIVE SOLENOID VALVE CONNECTORS

# **GENERAL DESCRIPTION**

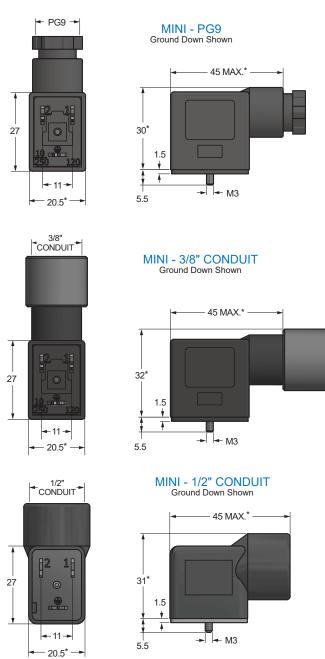
The Canfield Connector P5600 Series Micro Protective Connectors are a complete line of field wire style solenoid valve connectors that are offered with internal surge suppression and indicators light options. The connectors are made to meet EN175301-803 (Formerly DIN 43650) solenoid valve connector standards in all styles and configurations. The rugged design features integrated cable strain reliefs or conduit versions. The surge suppression can be tailored to need with 6 distinct versions. These connectors are designed to work seamlessly with your choice of solenoid valve.



MINI PG9, Lighted version shown above

## **DIMENSIONAL DATA**

All dimensions are in millimeters unless otherwise noted.

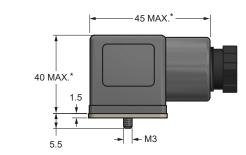


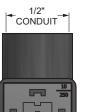
\*Dimensions subject to change notice. For critical specifications, contact factory





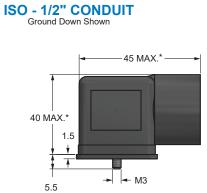
**ISO - PG9 / PG11** Ground Down Shown





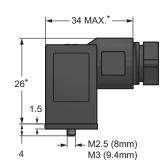
→ 18.0

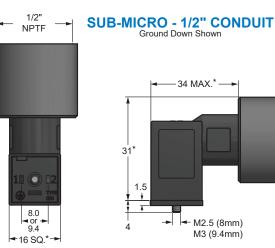
-26.5 SQ.\*---



SUB-MICRO - PG7 Ground Down Shown







\*Dimensions subject to change notice. For critical specifications, contact factory.

www.canfieldconnector.com 

em: customerservice@canfieldconnector.com 

ph: 1-800-554-5071

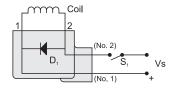
M3 (9.4mm)

# **MPC TYPES**

## TYPE 1\*

- Increases drop out time
- · Works only with DC voltage
- · Polarity dependent
- · Supply and switch are protected

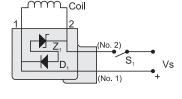
Diode in parallel with coil. When switch  $(S_1)$  is opened, the energy stored in the coil is trapped and dissipated by the diode  $(D_1)$ .



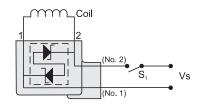
#### TYPE 2

- Exact limitation of inductive spikes
- · Works only with DC voltage
- Polarity dependent
- · Supply and switch are protected

Diode & Zener in parallel with coil. When switch  $(S_1)$  is opened, the energy stored in the coil is trapped and dissipated by the diode  $(D_1)$  and zener diode (Z1) and the coil resistance.



### TYPE 3



- · Good drop out time
- Works with AC or DC voltage
- NOT polarity dependent
- · Coil, supply and switch are protected

(S<sub>1</sub>) is opened or closed, the energy stored in the coil is limited by transorb.

Transorb in parallel with coil. When switch

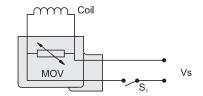
#### **TYPE 5\***

MOV (metal oxide varistor) in parallel

closed, the energy stored in the coil is

limited by the MOV.

with coil. When switch (S1) is opened or



Good drop out time

- Works with AC or DC voltage
- NOT polarity dependent

· Good drop out time

· Works with AC or DC voltage

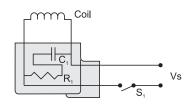
· Coil, supply and switch are protected

• NOT polarity dependent

· Coil, supply and switch are protected

### TYPE 6

RC Network in parallel with coil. When switch  $(S_1)$  is opened or closed, the energy stored in the coil is absorbed by the capacitor  $(C_1)$  and dissipated by the resistor  $(R_1)$ .



\*Most Commonly Used

# **TECHNICAL DATA**

Current Max.	Sub-Micro: 6 Amps
	ISO / MINI: 10 Amps
Voltage Max.	240 VAC, 120 VDC
Materials	Housing: PA, Black; Gray; Translucent (lighted versions)
Gasket Temperature Max.	Nitrile: -25° to +90°C Silicone: -40° to +125°C
Environmental Protection	Designed for IP 65 / NEMA 4 Dust tight and water resistant
Cable Diameter	PG7: 0.157" to 0.236" O.D. PG9: 0.236" to 0.315" O.D. PG11: 0.315" to 0.394" O.D. 1/2" Conduit 0.410" maximum
Wire Gauge	ISO / MINI: 14 AWG Max. Sub-Micro: 20 AWG Max.
Size	ISO: 18mm pin spacing - DIN Style "A" EN175301-803 MINI: 11mm pin spacing - Industry Standard Sub-Micro: 8mm pin spacing - DIN Style "C" EN 175301-803 Sub-Micro: 9.4mm pin spacing - Industry Standard
Number of Contacts	MINI: 2+ ground ISO / Sub-Micro: 2 contacts + 2 grounds

### WIRING INFORMATION

Terminal Configuration	
	Chassis Ground
1	(+) Pos. / High
2	(-) Neg. / Neut.

NOTE: Slight discoloration may occur to translucent material after prolonged exposure to UV rays. NOTE: When using MAC Valves with MINI and 9.4mm Sub-Micro, consult our factory.

## **ORDERING INFORMATION**

Each connector kit contains screw, washer and gasket assembly.

