

**TYPE R24 SOLENOID COIL  
INSTALLATION AND MAINTENANCE INSTRUCTIONS  
IMPORTANT NOTES BEFORE INSTALLING**

TypeR24 (24 Watt) solenoid coils, rated IP65 (weather proof and suitable for outdoors use) are designed to be used with Plast-O-Matic solenoid valves. The solenoid consists of the coil, plunger (AKA core), core tube housing and a few other parts. When energized, the solenoid creates a magnetic field that causes the core to move thus opening or closing the valve depending on the design of the valve. You, the end user, must apply the correct voltage for your particular valve/solenoid. This voltage (and part number) is imprinted on the coil.

**IMPORTANT:** these coils **MUST** be operated with the connector that was supplied by the factory, or the correct replacement connector if required. If used with the wrong connector, the valve will not operate. The coil, voltage and part numbers of the coil and connector are provided below. All connectors are designed for 1/2" NPT conduit connection. These connectors meet DIN 43650/ISO 4400 form A.

The reason the correct connector must be used is because the connector performs a special function. It rectifies the voltage. Rectified voltage has several advantages:

1. It is much quieter than AC voltage, which tends to hum and occasionally buzz.
2. The coil can be on/off cycled without increasing the heating like AC coils will.
3. In case the coil is energized without being mounted on the valve, no harm is done.

<b>COIL PART NUMBER</b>	<b>INPUT VOLTAGE</b>	<b>CONNECTOR PART NUMBER</b>
8826E-240VAC	240 VAC	9402
8825E-24VAC	24 VAC	6353
8824E-120VAC	120 VAC	6353
8827E-24VDC	24 VDC	5443

**SPECIFICATIONS**

Insulation class            H  
Watts (maximum)            24  
Duty Cycle                    100% (may be energized indefinitely, or rapid on/off cycling is acceptable)  
Max. Ambient temp        50° C (122° F)  
Voltage tolerance 10% above or below rated voltage. \*\*See note below  
Current (amps)                See table below.  
Enclosure Rating IP65

\*\*Note at 10% above rated voltage the coil will run a little warmer

<b>COIL PART NUMBER</b>	<b>MAXIMUM CURRENT</b>
8826E-240VAC	0.15
8825E-24VAC	0.85
8824E-120VAC	0.22
8827E-24VDC	1.1

**INSTALLATION CAUTION:** Electrical wiring shall be performed by qualified persons in accordance with all national and local electrical codes. Three wire (single phase, grounded) is required. A 1/2" NPT threaded connection and all gaskets supplied must be used to maintain IP65 weather tight rating.

**SOLENOID REPLACEMENT PART NUMBERS**

R24-24VAC		24 VAC	
P/N	QTY	DESC	
8895-GPP	1	GL-FL POLYPRO CAP NUT FOR W24 COIL	
9148EP	1	EPDM CLOSED CELL GASKET FOR W24	
0209EP	1	O-RING	
6353	1	CONNECTOR	
8828	1	CORE TUBE ASSY	
8825E-24VAC	1	COIL	
8672-SS	1	CORE	
8820-PF	1	SOLENOID MOUNT MACHINED	
LC-024B-11-SS	1	SPRING for EASMT model	
LC026B-13-SS	1	SPRING for EASYMT model	
4310	1	CAP, SRING	
Y-INSTR-R24	1	INSTRUCTION SHEET	

R24-24VDC		24 VDC Exceptions to above	
P/N	QTY	DESC	
5443	1	CONNECTOR	
8827E-24VDC	1	COIL	

R24-240VAC		240 VAC Exceptions to above	
P/N	QTY	DESC	
9402	1	CONNECTOR	
8826E-240VAC	1	COIL	

R24-120VAC		120 VAC Exceptions to above	
P/N	QTY	DESC	
6353	1	CONNECTOR	
8824E-120VAC	1	COIL	

**WIRING DIAGRAMS**

