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Important Note

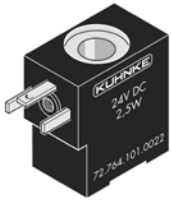
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Miniature Solenoid Valves

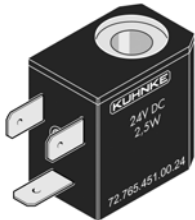
Accessories

Kuhnke Miniature Valves

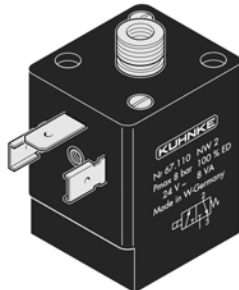
Standard Solenoid Coils



Series 64



Series 65



Series 67

Standard replacement coils are available for all types of miniature solenoid valves. Coils are encapsulated to keep out water, oil and other contaminants providing splash proof protection when used with the corresponding socket and gaskets for miniature valves.

Interchanging different voltage coils- Coils for solenoid operators are generally interchangeable within certain limitations. AC valve armature construction includes a shunt operating coil and is required for AC voltage operation; therefore, AC coils are interchangeable only on AC valves. DC coils may be used on valves with AC or DC armatures. Also, low power DC valve designs have specially designed coils and valve armatures; therefore, low power coils should not be used on standard valves.

Pick up and drop out voltage tolerances vary for each type of coil; Series 64 $\pm 10\%$ of rated voltage; Series 65 $+5/-10\%$ of rated voltage and Series 67 - AC: $+10/-20\%$; DC: $+10/-15\%$ of rated voltage.

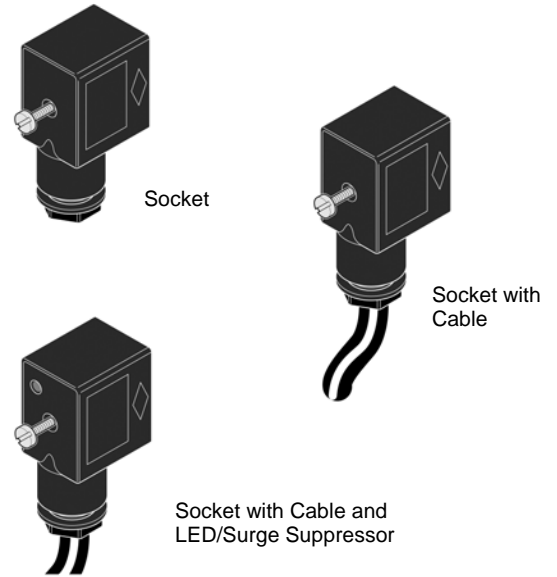
Description	Series 64 Coil			Series 65 Coil			Series 67 Coil			
	Power Consumption	Resistance (Ohms Ω)	Catalog Number	Power Consumption	Resistance (Ohms Ω)	Catalog Number	Power Consumption	Resistance (Ohms Ω)	Catalog Number	
Standard DC-	12V	386mA	31	JL5910024	350mA	34	JL5910018	460mA	26	JL4900025
	24V	193mA	124	JL5910022	205mA	117	JL5910003	260mA	92	JL4900024
Low Power DC-	12V	129mA	93	JL5910008	129mA	93	JL5910013	130mA	92	JL4900022
	24V	59mA	403	JL5910001	59mA	403	JL5910002	60mA	393	JL4900021
Standard AC-	24V	200mA	57	JL5910004	200mA	57	JL5910006	330mA	17	JL4900019
	110V	32mA	1440	JL5910005	50mA	1036	JL5910015	98mA	393	JL4900018
	230V	22mA	4350	JL5910009	22mA	4950	JL5910007	36mA	1750	JL4900016

Electrical Connectors

Electrical connectors are available in 3 versions: connector plug only, connector plug with prewired 9 foot (3 meter) cable and a connector plug with built in surge suppressor and LED with a prewired 9 foot (3 meter) cable.

Plug in sockets are constructed of a flame resistant, black molded material and include a sealing ring which provides splash proof protection (NEMA 12, IP65).

Series 65 and 67 sockets have screw terminals for a maximum wire size of No. 16 stranded (1.5mm²). Series 64 sockets have screw terminals for No. 18 stranded wire (0.75mm²). Maximum cable jacket size for connector sealing ring is 5/16 inch diameter.



Description	Catalog Number			
	Use on 64 Series Valves	Use on 65 Series Valves	Use on 67 Series Valves	Use on 79, 81, 83, 84, 85, 87 Series**
Socket Only	64230-01	65495-00	67499-00	64230-01
Pre Wired Socket With 9 ft (3 meter) cable	64157-02	65495-01	67499-01	64157-02
Pre Wired Socket With 9 ft (3 meter) cable with built in yellow LED and surge suppressor for 24 VAC or DC Max.	64157-01	65495-02	67499-02	64157-01

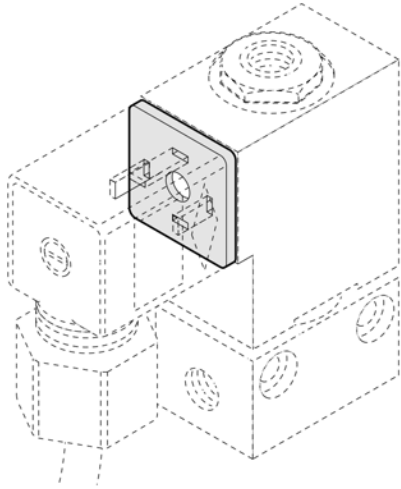
** - Some older spool valve designs utilize Series 65 coils, see the valve catalog pages. Use the appropriate sockets for these valves. Standard fully insulated female slip on crimp terminals can also be used for making electrical connections. Series 65 valves use NEMA tab size .032 x .250. Series 67 uses NEMA tab size .032 x .250 on the ground terminal and tab size .032 x .187 on the line terminals.

Miniature Solenoid Valves

Accessories

Kuhnke Miniature Valves

Luminous Seal/Surge Suppressor



The luminous seal design provides surge suppression, a visual indication of valve on/off state, and forms a seal between coil and socket. Unit has 2 green LED's and a diode bridge, encapsulated in a poly-urethane/silicone material. The seal is approx. 1/8" thick and is sandwiched between coil and socket.

Luminous seals have an operating temperature range of between -12° to 175° F (-25° to 80° C) and consume 0.25 watts at 24VDC.

Coil Voltage (AC or DC)	Catalog Number			
	Use on 64 Series Valves	Use on 65 Series Valves	Use on 67 Series Valves	Use on 79, 81, 83, 84, 85, 87 Series**
12 to 24V	64330	65553	67230	64330
42 to 48 V	64330-01	65553-01	67230-01	64330-01
120V	64330-02	65553-02	67230-02	64330-02
230V	--	65553-03	67230-03	--

** Older designs of spool valves with 20mm coils require seals for Series 65 valves.