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Hard copy product catalogues, and CDROMs have been published describing Kuhnke Pneumatics, Solenoids, Relays and Electronics; some divided into different books. A list of current publications is available on this web site or from our sales offices. Some may be available for download, but as substantially larger files.

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### Important Note

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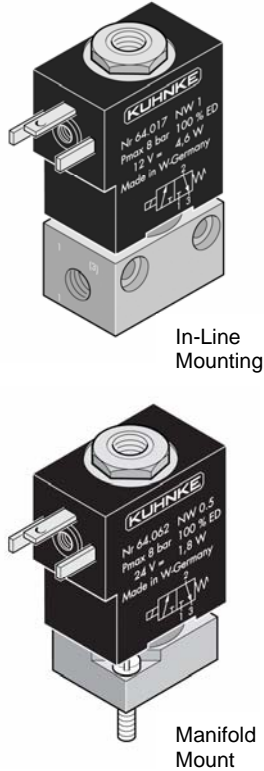
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# Miniature Solenoid Valves

## Series 64 – 2/2 or 3/2

Kuhnke Miniature Valves

## Miniature Solenoid Valves (16mm Wide)



The Series 64 solenoid valve is available for in-line, direct or manifold mounting. Its modular construction allows for maximum utilisation of space. Accessories include connecting plugs, surge suppressors and manifolds. All standard valves feature a solid brass housing, buna N seals, encapsulated coils and are mountable in any position.

Valves are available in 3 mounting configurations. In-line (body ported) valves are mounted using (2) M3 threaded holes at the base, or via through body holes. Manifold mounted valves can be used with Kuhnke accessories or can be mounted on custom manifolds or equipment. A direct mounted valve is available for mounting in 1/8 ports on cylinders or for piloting larger valves.

The Series 64 valve is available with 3 orifice sizes each with different flow values and maximum air pressures. A low power DC coil version (1.8 W) has a 0.5mm orifice and is designed for use with electronic equipment.



In addition to general purpose use, Series 64 valves are designed for the special requirements of medical, dental and laboratory equipment. Custom designs available.

## Technical Specifications

**Operating Pressure:**  
90% vacuum to 8 Bar max.  
**Max. Flow Rate and Pressure:**  
See selection chart.

**Kv/Cv:**  
See flow graphs.  
**Connection:**  
M5 ports

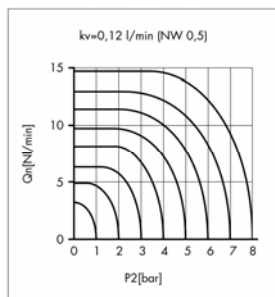
**Media:**  
All neutral liquid and gaseous media.  
**Power Consumption:**  
Standard: DC: 4.6 W / AC: 5.5 VA  
Low Power: DC: 1.8 W  
**Valve Operating Time:**  
Pick-up: 5-10 ms  
Drop out: 3-5 ms

**Materials:**  
Brass body, Buna N Seals, encapsulated coil.  
**Average Mechanical Life:**  
20 million operations  
**Operating Ambient:**  
-10°C to 50°C (12°F to 120°F)

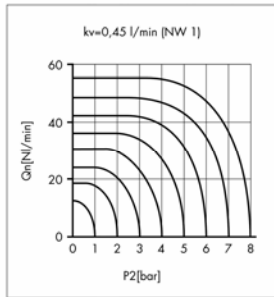
**Dimensions (mm):**

	In Line	Manif.	Direct
Height	47	41	55
Width	16	16	16
Depth	26.5	26.5	26.5
Weight	85g.	72g.	89g.

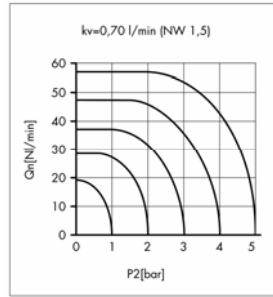
### Flow Graphs in Bar and Litres per Minute



0.5mm Orifice  
Kv - .12 / Cv - .01



1mm Orifice  
Kv - .45 / Cv - .03



1.5mm Orifice  
Kv - .70 / Cv - .05

(1 Bar = 14.5 PSI; 1 Litre = .03531 cubic feet)

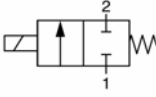
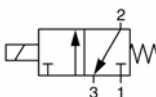
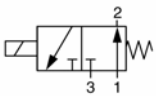
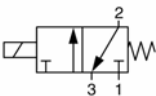
# Miniature Solenoid Valves

Kuhnke Miniature Valves

**Series 64 – 2/2 or 3/2**



## Selection Chart

Description	Orifice (Maximum Operating Pressure and Flow)	Coil Type	Catalogue Number					
			In-Line Mounted		Manifold Mounting		1/8 Port Mounting	
			DC Coil	AC Coil	DC Coil	AC Coil	DC Coil	AC Coil
<b>2/2</b> Normally Closed 	<b>1.5mm</b> (5 Bar, 57 Litres)	plug	<b>64073- ●</b>	<b>64072- ●</b>	<b>64076- ●</b>	<b>64075- ●</b>	--	--
		wire	<b>64074- ●</b>	--	<b>64077- ●</b>	--	--	--
	<b>1mm</b> (8 Bar, 57 Litres)	plug	<b>64025- ●</b>	<b>64024- ●</b>	<b>64027- ●</b>	<b>64026- ●</b>	--	--
		wire	<b>64047- ●</b>	--	<b>64049- ●</b>	--	--	--
<b>3/2</b> Normally Closed 	<b>1.5mm</b> (5 Bar, 57 Litres)	plug	<b>64054- ●</b>	<b>64053- ●</b>	<b>64056- ●</b>	<b>64055- ●</b>	--	--
		wire	<b>64070- ●</b>	--	<b>64071- ●</b>	--	--	--
	<b>1mm</b> (8 Bar, 57 Litres)	plug	<b>64001- ●</b>	<b>64002- ●</b>	<b>64009- ●</b>	<b>64008- ●</b>	<b>64015- ●</b>	<b>64014- ●</b>
		wire	<b>64029- ●</b>	--	<b>64031- ●</b>	--	<b>64069- ●</b>	--
<b>3/2</b> Normally Open 	<b>1.5mm</b> (4 Bar, 48 Litres)	plug	<b>64065- ●</b>	<b>64066- ●</b>	<b>64067- ●</b>	<b>64068- ●</b>	--	--
		wire	<b>64064- ●</b>	--	--	--	--	--
	<b>1mm</b> (8 Bar, 57 Litres)	plug	<b>64017- ●</b>	<b>64016- ●</b>	<b>64062- ●</b>	<b>64063- ●</b>	--	--
		wire	<b>64045- ●</b>	--	--	--	--	--
<b>3/2</b> Normally Closed Low Power Coil 	<b>0.5mm</b> (8 Bar, 14 Litres)	plug	<b>64011- ●</b>	--	<b>64013- ●</b>	--	--	--
		wire	<b>64060- ●</b>	--	<b>64061- ●</b>	--	--	--
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		--	--	--	--	--	--	--

● - Insert coil voltage required to complete catalogue number. Standard voltages are 12 and 24 VDC; 24, 110 and 230 VAC.

### Coil Types

Coils are available for a plug socket or with wire leads molded into coil (20cm long). For socket connectors see accessory section.

For 2/2 operation of any 64 Series valve, plug exhaust port 3.  
Consult us for valves with special mounting configurations, flow requirements or different seal materials.  
**See miniature solenoid valve accessories for electrical connectors and manifolds. For detail dimensions contact us.**