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### Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.

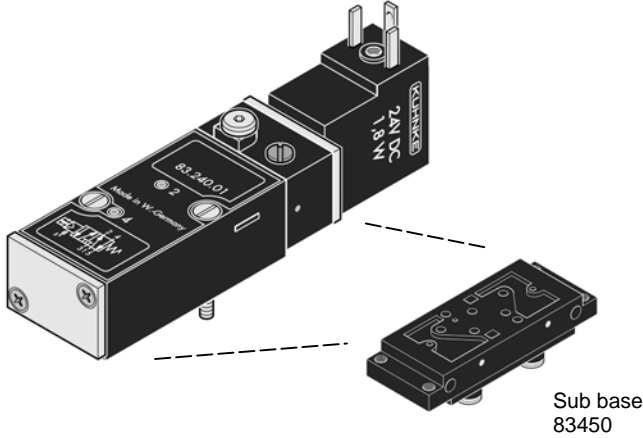
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# Miniature Solenoid Valves

## Series 83 – 4 Way

Kuhnke Miniature Valves

### Resilient Seal Spool Valve, Sub Base Mounted



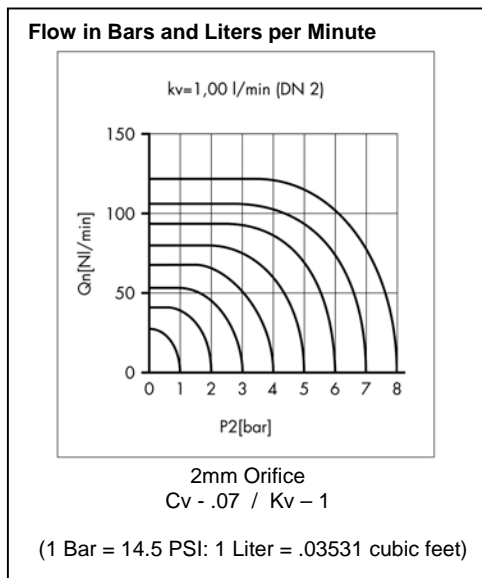
The Series 83 sub base mounted valve provides a simple answer to miniature 4 way valving. The valve is constructed of a molded body and utilizes O-ring construction to provide a lightweight, durable alternative. The valve has red pop-up indicators to show position, as well as a manual override and an external air pilot supply port connection, used when switching pressures less than 35 PSI.

A special molded sub base cat. no. **83450** has instant push in fittings for 5/32 (4mm) tubing and fully adjustable flow controls to provide a compact valve package. The Series 83 valve can also be mounted on a standard aluminum sub plate cat. no. **84402-01** or on standard manifolds for Series 84 valves, see accessories.

Description	Coil Type	Catalog Number
<b>4 Way Single Solenoid Spring Return</b> 	AC	<b>83240-02-●</b> <i>(83230-02-●)</i>
	DC	<b>83240-01-●</b> <i>(83230-01-●)</i>
<b>4 Way Double Solenoid Detent</b> 	AC	<b>83244-02-●</b> <i>(83234-02-●)</i>
	DC	<b>83244-01-●</b> <i>(83234-01-●)</i>

● - Insert coil voltage required to complete catalog number. Standard voltages are 12 and 24 VDC; 24, 110 and 230 VAC. Catalog numbers in *Italics* are older design valves with 20mm coils. Not recommended for new installations.

### Technical Specifications



**Operating Pressure:**  
35-115 PSI max.

**Vacuum:**  
Not applicable.

**Flow Rate:**  
5 CFM @ 100 PSI  
2 CFM @ 45 PSI

**Cv/Kv:**  
Cv - 0.07  
Kv - 1.00

**Orifice:**  
2mm

**Connection:**  
10-32 (M5) ported sub base.

**Media:**  
Filtered Air

**Coils:**  
Encapsulated, ground connection standard.

**Power Consumption:**  
DC: 1.8W / AC 5.5 VA

**Valve Operating Time:**

	AC	DC
Pick-up	4 ms	10 ms
Drop Out	3.5 ms	8 ms

**Dimensions (inches):**

	Single Solenoid	Double Solenoid
Height:	3 11/16	5 5/16
Width:	5/8	5/8
Depth:	1 1/16	1 1/16
Weight:	5 1/2 oz	8 oz.

**Materials:**  
Molded body, Buna N Seals, zinc end caps

**Average Mechanical Life:**  
20 million operations

**Operating Ambient:**  
-10°C to 60°C (12°F to 140°F)

**Operation:**  
Air piloted system, supply pressure must be connected to port 1.