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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

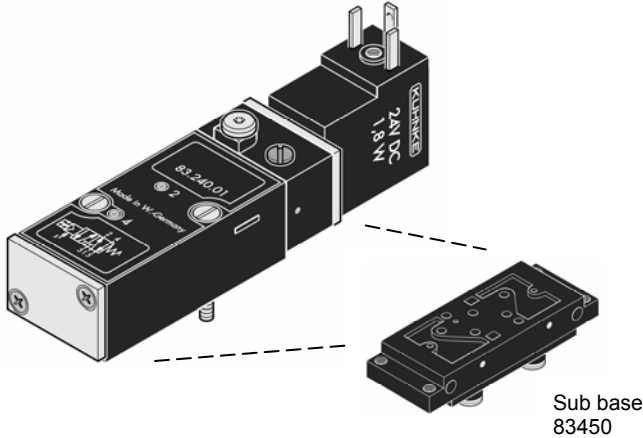
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Miniature Solenoid Valves

Series 83 – 5/2

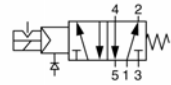
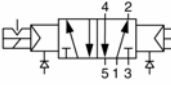
Kuhnke Miniature Valves

Resilient Seal Spool Valve, Sub Base Mounted



The Series 83 sub base mounted valve provides a simple answer to miniature 5/2 valving. The valve is constructed of a moulded body and utilises 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 2.5 Bar.

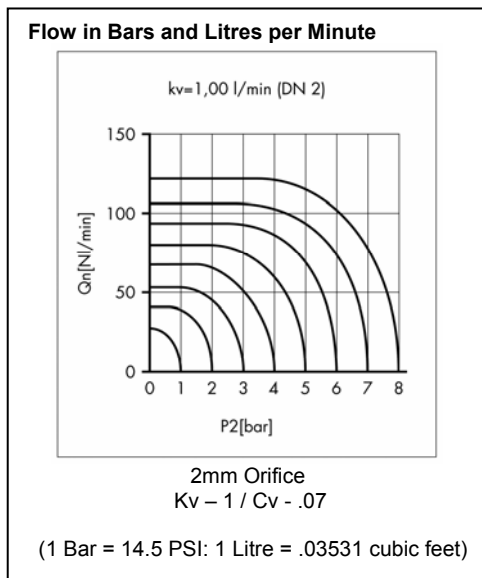
A special moulded sub base cat. no. **83450** has instant push in fittings for 4mm tubing and fully adjustable flow controls to provide a compact valve package. The Series 83 valve can also be mounted on a standard aluminum sub plate cat. no. **84402-01** or on standard manifolds for Series 84 valves,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

Description	Coil Type	Catalogue Number
5/2 Single Solenoid Spring Return 	AC	83240-02-● <i>(83230-02-●)</i>
	DC	83240-01-● <i>(83230-01-●)</i>
5/2 Double Solenoid Detent 	AC	83244-02-● <i>(83234-02-●)</i>
	DC	83244-01-● <i>(83234-01-●)</i>

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

Catalogue numbers in Italics are older design valves with 20mm coils. Not recommended for new installations.

Technical Specifications



Operating Pressure:

2.5 to 8 Bar max.

Vacuum:

Not applicable.

Flow Rate:

See Flow Chart.

Kv/Cv:

Kv - 1.00

Cv - 0.07

Orifice:

2mm

Connection:

See sub base.

Media:

Filtered Air

Coils:

Encapsulated, earth 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 (mm):

	Single Solenoid	Double Solenoid
Height:	99	144
Width:	25	25
Depth:	26.5	26.5
Weight:	158g.	230g.

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.