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Find the *Emerson / Numatics 12SAD4-FA13T30* at our website: ***Click HERE***

The air valve people

numatics®

MK. 10 LINE

SERIES 12SAD4
1/4" TAPPED, J.I.C.
SINGLE SOLENOID, SPRING RETURN

SPECIFICATIONS

12SAD4 series valves are 1/4" heavy duty, multi-purpose, 2-position, direct solenoid operated, spring returned, 4-way air valves. They meet or exceed ALL JIC standards. They are of splash-proof construction and are, as standard, fitted with a recessed, non-locking manual operator.

APPLICATION

These valves are used primarily for the control of double acting air cylinders where part stroke stopping or inching of the cylinder is not required. They are genuine multi-purpose valves; that is, they may be used as normally open or closed 2- or 3-way valves, single or dual pressure 4-ways, or as selector or diverter valves, dependent only on how they are piped or plugged. Full back pressure at any port has no operating effect on the valve.

They are actuated by a "maintained" electrical signal. The spring returns the spool to the normal position when the solenoid is de-energized.

MOUNTING MEANS

12SAD4 model valves are available with plug-in or standard base or FlexiBlok mounting (with or without speed control). Plug-in base is field convertible to individual exhaust (see page MK10-47). Standard base is shown on page MK10-46). For FlexiBlok options, see pages MK10-18 - 25.

OPTIONS

For electrical and mechanical options, see pages MK10-43 - 47.

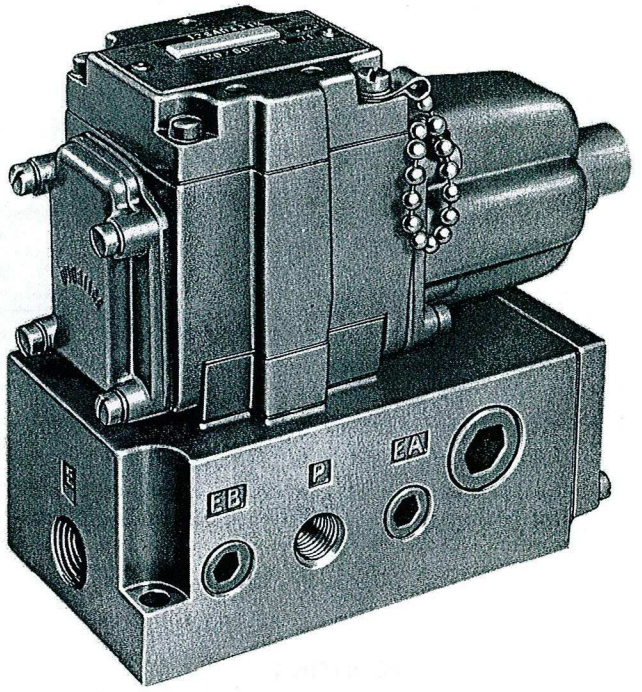
OPERATING DATA

PRESSURE RANGE: 28" Hg. vacuum to 300 PSIG. (specify pressure for operation over 150 PSIG).

TEMPERATURE RANGE: -10°F to +115°F ambient. High temperature coils are not available.

SERVICE: Valves can be used on properly filtered and lubricated air, dry air, vacuum or noncorrosive, nontoxic and nonflammable dry gases.

FLOW CAPACITY: MARK 10 Line 2-position valves have a C_V of 1.0. At 80 PSIG supply pressure, discharging to atmosphere, the flow is 46 SCFM. See Numatics' Engineering & Technical Data for complete flow chart.



SOLENOIDS: Standard AC voltages are 115/50-120/60, 220/50, and 230/60. Special AC voltages and DC solenoids are available at extra cost. See page MK10-44 for further data and part numbers.

Inrush current @ 120/60 AC	.80	amps
Holding current @ 120/60 AC	.17	amps
Time to energize, full shift	.018	secs.
Time to de-energize, full shift	.025	secs.
Cycle rate, continuous	450/min.	

MODEL SELECTION CHART

NUMBER	DESCRIPTION	WIRING OPTIONS & MODIFICATION CODE
12SAD400	Valve only, no base	Add one wiring code from below, plus the Modification Code A and a specific voltage, to end of model number** **(e.g. 12SAD437KA 120/60).**
29	Plug-in base, side and bottom ports w/muffler	**O**=non-plug-in, standard AC
31	Plug-in base, side ports	**A**=non-plug-in, special AC
32	Plug-in base, side and bottom ports	**B**=non-plug-in, DC solenoid
33	Plug-in base, side ports w/muffler	**C**=plug-in, standard AC*
35	Plug-in base, side ports w/speed control	**D**=plug-in, special AC*
36	Plug-in base, side and bottom ports w/speed control	**E**=plug-in, DC solenoid*
37	Plug-in base, side ports w/muffler and speed control	**F**=non-plug-in, standard AC w/light
39	Plug-in base, side and bottom ports w/muffler and speed control	**G**=non-plug-in, special AC w/light
41	Standard base, side ports	**H**=non-plug-in, DC solenoid w/light
43	Standard base, side and bottom ports	**K**=plug-in, standard AC w/light*
44	Standard base, side ports, common exhaust	**L**=plug-in, special AC w/light*
46	Standard base, side ports w/speed control	**M**=plug-in, DC solenoid w/light*
48	Standard base, side and bottom ports w/speed control	
49	Standard base, side ports, common exhaust w/speed control	

*Not available with standard base mounted valves.

**Light option available only in voltages 100-130 or 200-260, any frequency, including DC.

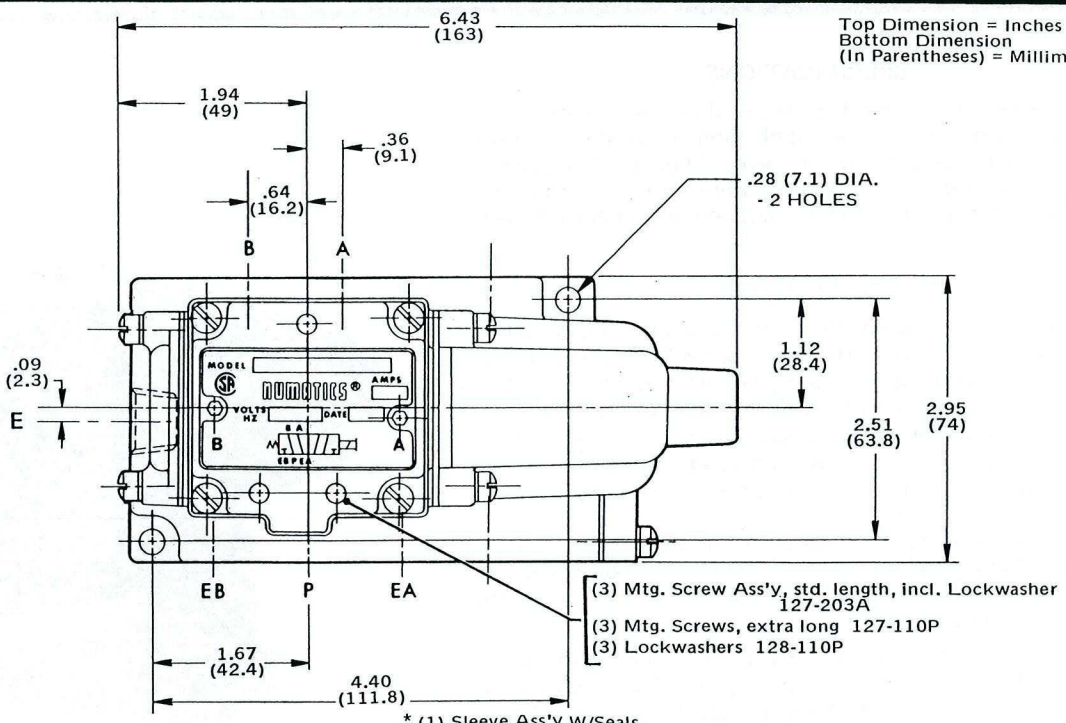
A. N. S. I. SYMBOL

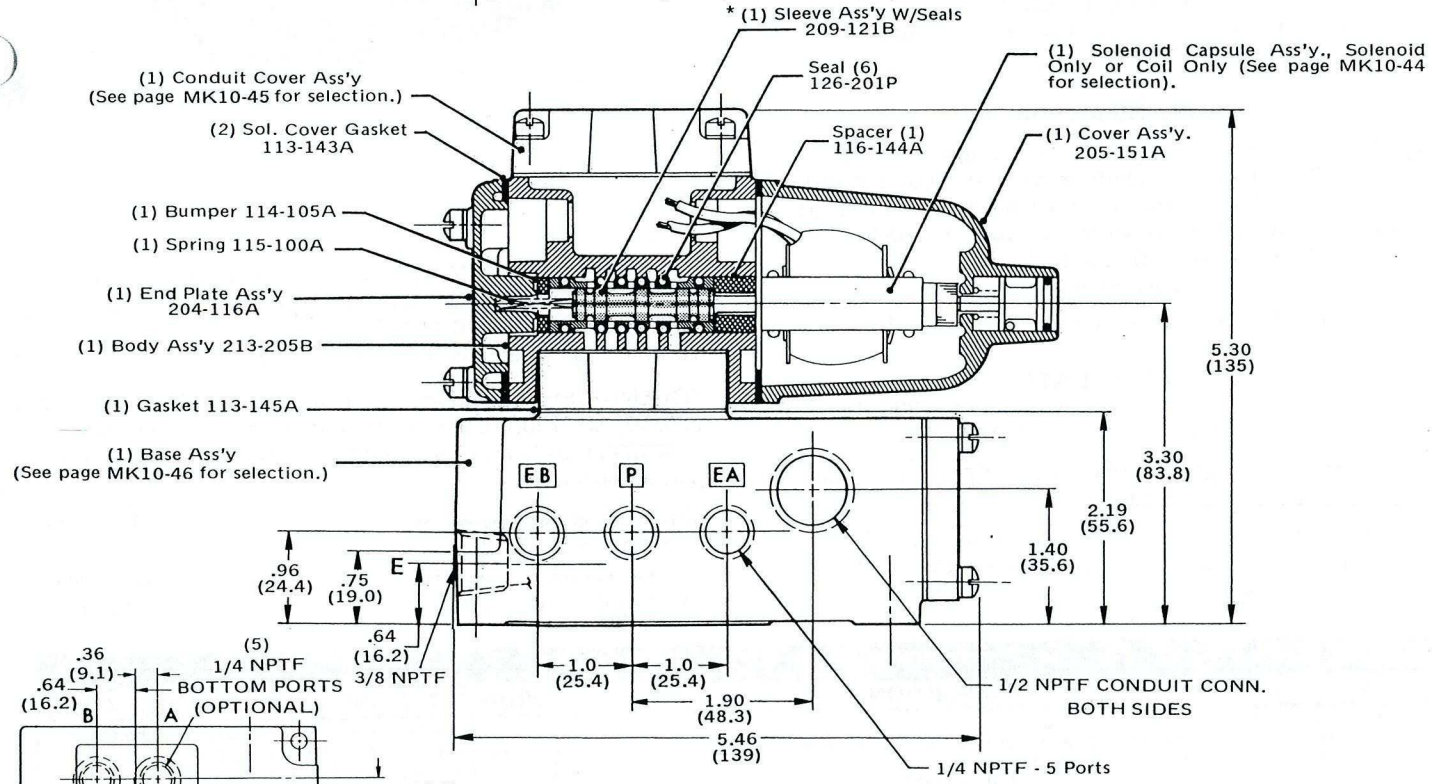


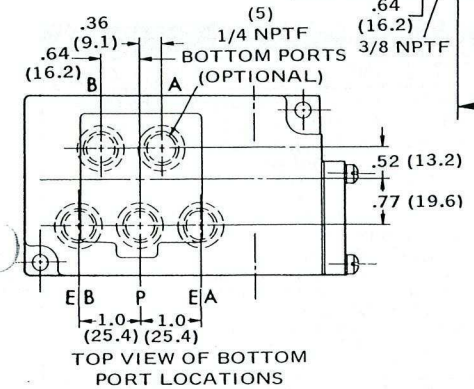
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Top Dimension = Inches
Bottom Dimension
(In Parentheses) = Millimeters







TOP VIEW OF BOTTOM PORT LOCATIONS

*This Spool and Sleeve Assembly is sold as a precision matched set only. Spools are not interchangeable.

NOTE: Plug-in base is shown. For dimensions of standard bases see page MK10-46.

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