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**MK. 7 LINE**

# SERIES 11SAD4
# 1/8 AND 1/4 NPTF
# SINGLE SOLENOID, SPRING RETURN

## SPECIFICATIONS

11SAD4 series valves are 1/8" heavy duty, multi-purpose, 2-position, single solenoid operated, spring returned, 4-way air valves. They are of splash-proof construction and are, as standard, fitted with a recessed, nonlocking manual operator.

## APPLICATION

These valves are used primarily for the control of small bore, short stroke 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

11SAD4 model valves are available with either 1/8 or 1/4 NPTF bases or miniBLOK mounting, with or without speed control. 1/8 NPTF bases are shown on MK7-5, 1/4 NPTF bases on MK7-19, and miniBLOK on MK7-12-15.
Mark 7 valves may be mounted in any position.

## OPTIONS

Options are shown on pages MK7-18-19. Pressure regulators are shown on pages MK7-16/17.

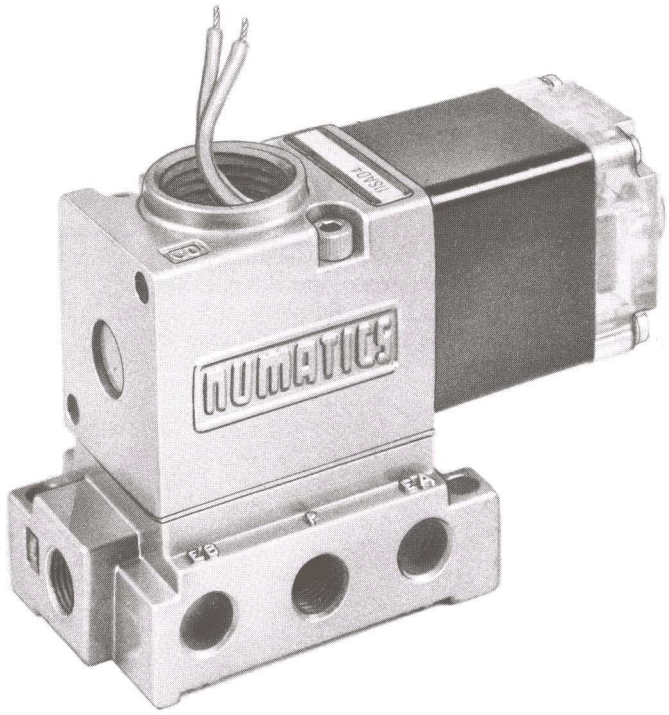
## OPERATING DATA

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 7 Line 2-position valves have a $C_V$ of .4. At 80 PSIG supply pressure, discharging to atmosphere, the flow is 18 SCFM. See Numatics' Engineering & Technical Data for complete flow chart.




## SOLENOID DATA

All solenoids are continuous duty rated. Standard voltages are dual Hz 115/120 - 50/60 Hz, and 220/230 - 50/60 Hz A.C. and 12 or 24 volts D.C.

Special A.C. voltages 8 to 230, 50 or 60 hertz and D.C. voltages 6-250v D.C. are available on special order. Consult factory.

| | 120/60 A.C. | 24v D.C. |
|---|---|---|
| Inrush current (amps.) | .40 | .25 |
| Holding current (amps.) | .12 | .25 |
| D.C. watts, inrush & holding, all voltages (max.) | — | 6 |
| Time to energize (secs.) | .012 | .028 |
| Time to de-energize (secs.) | .018 | .012 |

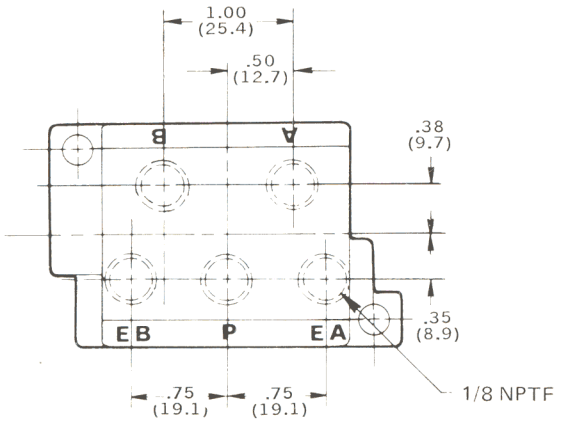
## MODEL SELECTION CHART

| 1/8 NPTF BASE | 1/4 NPTF BASE | BASE DESCRIPTION | WIRING OPTION |
|---|---|---|---|
| 11SAD400 | ——— | Valve unit only, no base | Add one letter to any model number and specify voltage. |
| 41 | 11SAD44A | Side ports, individual exhaust | |
| 43 | 11SAD44B | Side and bottom ports, individual exhaust | |
| 44 | ——— | Side ports, common exhaust | **O** = Std. A.C., hardwired |
| 54 | ——— | Side and bottom ports, common exhaust | **B** = Std. D.C., hardwired |
| 46 | 11SAD44C | No. 41 or No. 4A base with speed control | **C** = Std. A.C., plug-in |
| 48 | 11SAD44D | No. 43 or No. 4B base with speed control | **E** = Std. D.C., plug-in |
| 49 | ——— | No. 44 base with speed control | |
| 55 | ——— | No. 54 base with speed control | Cord/plug assemblies for options C & E Order separately 4 ft.; 230-213A 6 ft.; 230-215A |
| For aluminum solenoid cover with pipe plug, add O11A to model number. For aluminum solenoid cover with override, add O11J to model number. For 48" solenoid leads, add O13A to model number. | | See page MK7-18. | |

A.N.S.I. SYMBOL

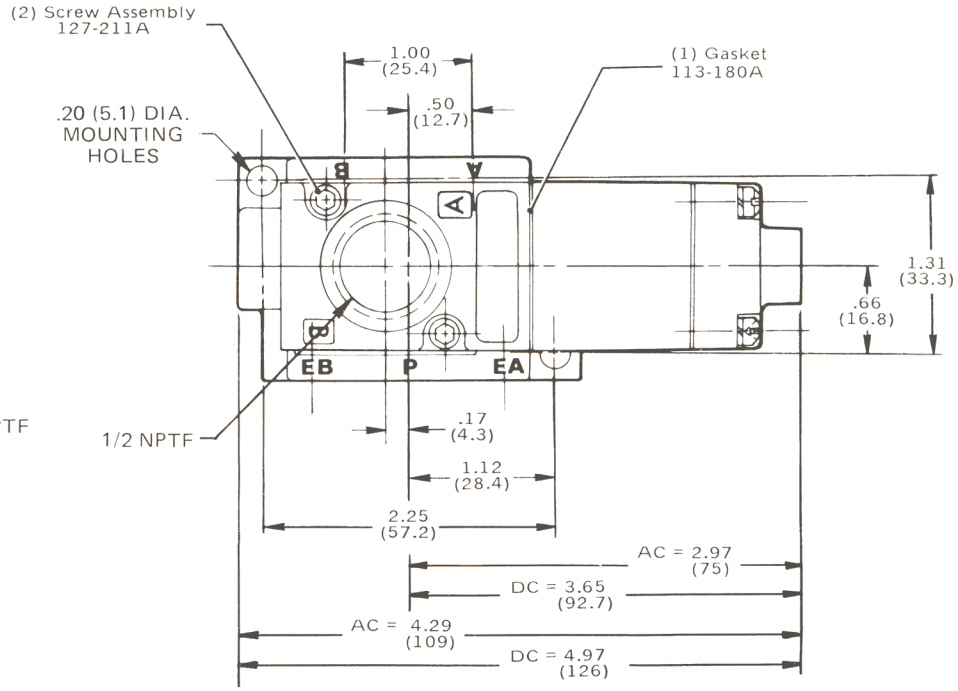


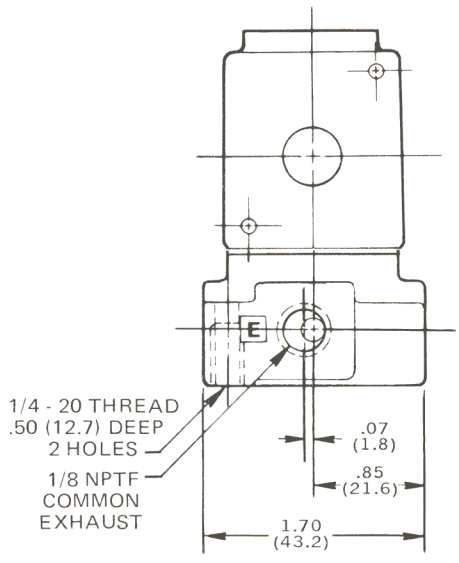

1/8 NPTF Base

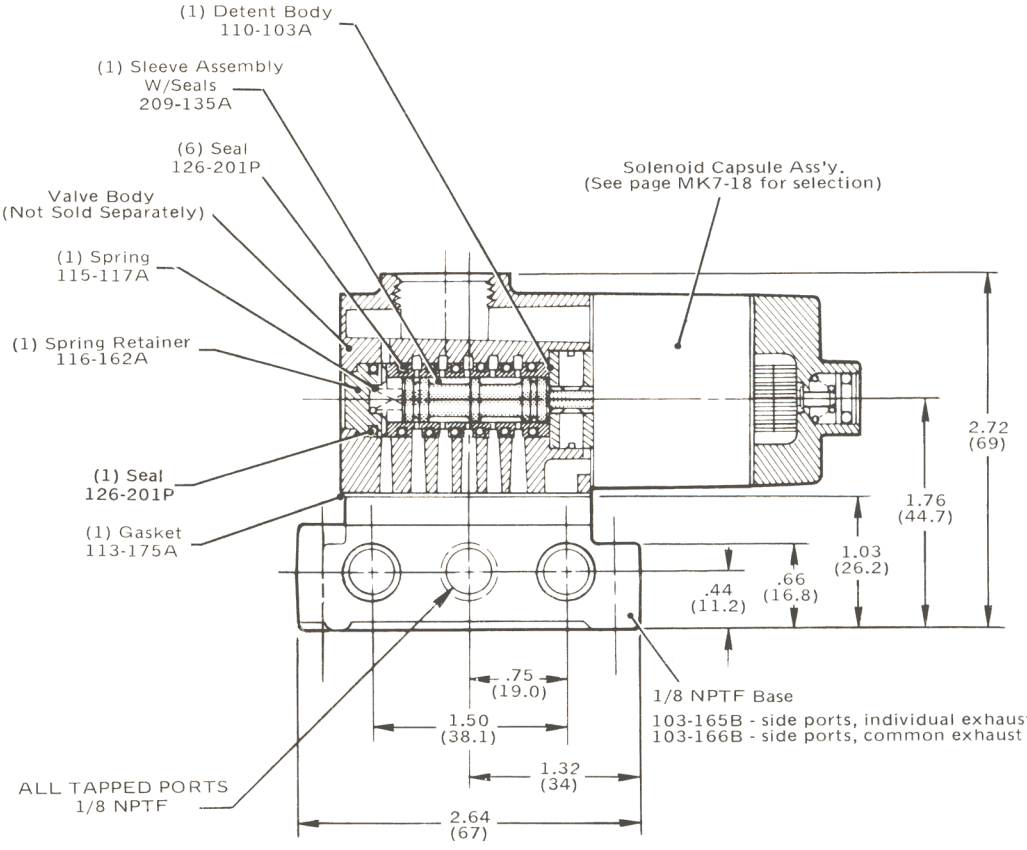



TOP VIEW OF
BOTTOM PORTS
AND MOUNTING HOLES

Base Ass'y. 203-154A - side and bottom ports, individual exhaust
Base Ass'y. 203-155A - side and bottom ports, common exhaust




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

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

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