

MVDA-80 series

DIRECT ACTING TYPE COMPACT SOLENOID VALVE



Mindman



Video



Selection table



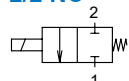
Technical data



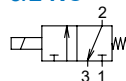
Caution for safety
(Read before installing)



2/2 NC



3/2 NC



Features

- Response time < 1ms.
- Product life: 500 million switching cycles.
- Ultra response frequency: 500Hz.

Order example of valve

MVDA — 80 — 3E1 — NC — DC24 — C — A — M3

* 3E1-DC12 is make to order.

Specification

Model	2E1-KK-A	3E1-KK	3E1-DC24	3E1-DC12
No. of port	2	3		
No. of position	2			
Medium	Dry air, inert gas			
Operating perssure range	0~1.2 MPa	0~0.8 MPa		
Flow rate (N l/min)	25 ± 10%	28 ± 10%		
Response time	ON	0.7 ± 0.5	0.8 ± 0.2	2.0 ± 0.5
(ms)	OFF	1 ± 0.2	0.5 ± 0.2	0.6 ± 0.2
Operating fluid temp.	-10~+50°C			
Ambient temperature	-10~+50°C			
Storage temperature	-10~+50°C			
Voltage	Speed-up: DC24V, Hold: DC5V		DC24V	DC12V
Power consumption	0.8 W (Hold)	0.5 W (Hold)	1.2 W	1.44 W
Filter element	40 μm			
Lubrication	No required			
Max. operating frequency	500 Hz (at 250Hz with driver board)		200 Hz	280 Hz
IP protection class	IP52			
Weight	8 g			

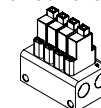
Port	Voltage	Wire	Pressure
2E1-NC: 2 way (2 port)	KK: DC24V / DC5V (Speed-up in tension) <i>Speed-up: DC24V, hold: DC5V</i>	C: Without driver board S: With driver board (24/5V Signal converter)	A: High pressure (0~1.2 MPa)
3E1-NC: 3 way (3 port)	DC12: DC12V DC24: DC24V KK: DC24V / DC5V (Speed-up in tension) <i>Speed-up: DC24V, hold: DC5V</i>	C: Without driver board S: With driver board (24/5V Signal converter)	Blank: General pressure (0~0.8 MPa)

SYMBOL OF ASSEMBLY

B1: Assembly
(Base+Valve)



M□: 2,3,4...Manifold
number Assembly
(Manifold+Valve)



Order example of base

MVDA — 80 — 3B1

MODEL

BASE

2B: 2 port base
3B: 3 port base

Order example of manifold

MVDA — 80 — 3M2

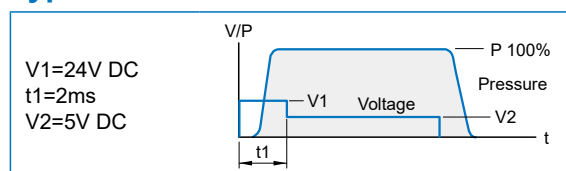
MODEL

MANIFOLD

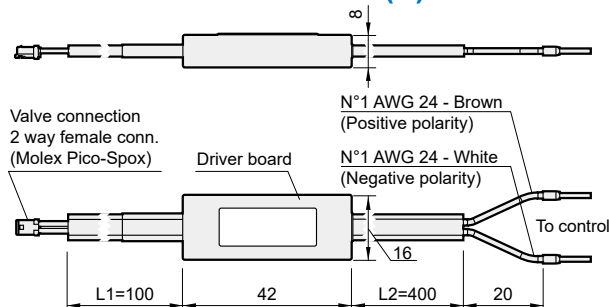
STATION

2M: 2 port
3M: 3 port

KK type electrical control



The wire with driver board (S) dimensions

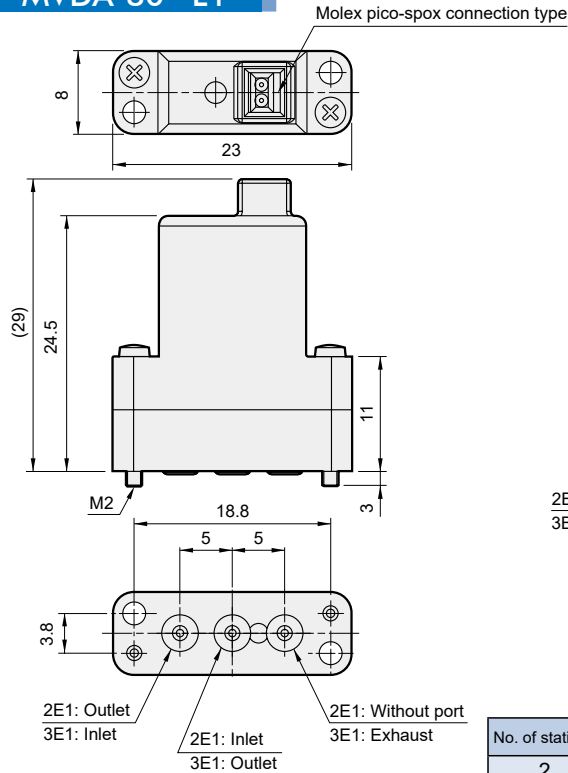


MVDA-80 Dimensions / Base / Manifold

DIRECT ACTING TYPE COMPACT SOLENOID VALVE

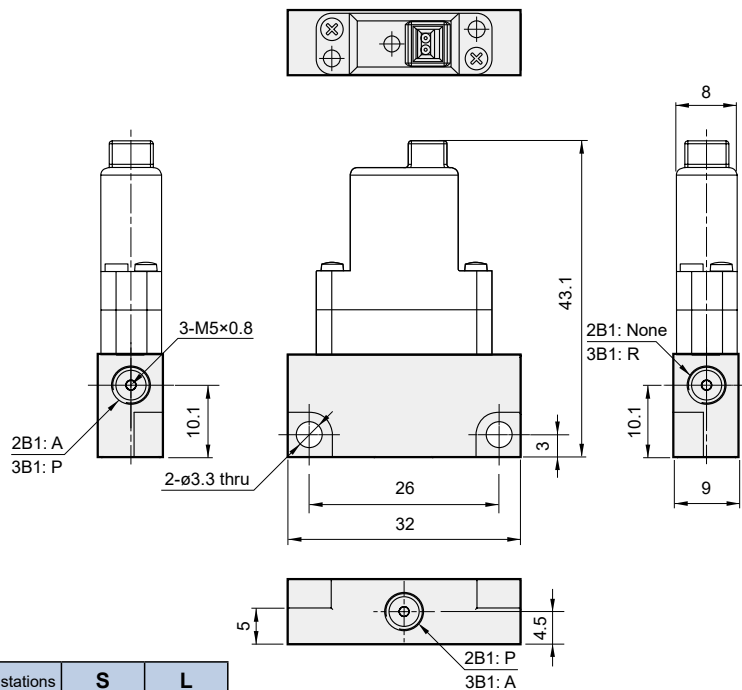


MVDA-80-*E1



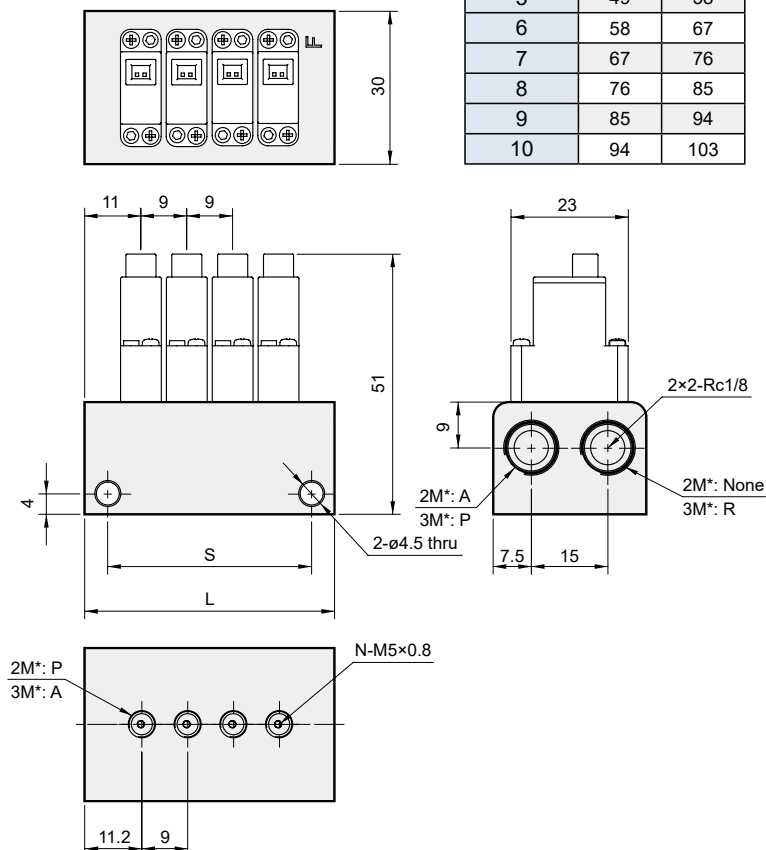
MVDA-80-*B1

Base



MVDA-80-*M*

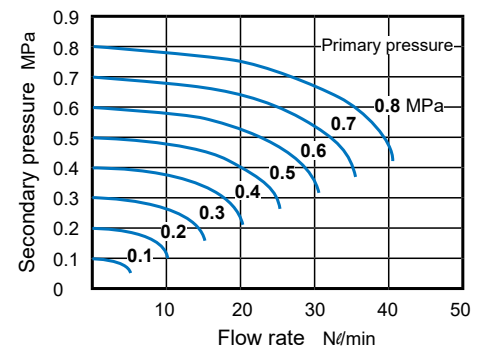
Manifold



No. of stations	S	L
2	22	31
3	31	40
4	40	49
5	49	58
6	58	67
7	67	76
8	76	85
9	85	94
10	94	103

Flow features

MVDA-80-2E1



MVDA-80-3E1

