# **Basic Switch Common Accessories**

## Separator (Sold Separately)

To ensure a secure insulation distance, or if there are other metal parts or copper wire installed too close to the Switch, use the Switch with insulation guard or use a separator purchased separately to keep the insulation distance.

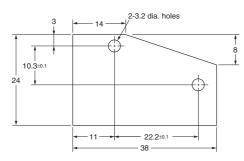
## ■List of models

Appearance	Applicable Switches	Thickness (mm)	Model
CALIFURNIE CALIFURNIE CALIFO	V D3V-01 VX D2MV D2RV D2VW	0.18	SEPARATOR FOR V0.18
		0.25	SEPARATOR FOR V0.25
S S S S M 2000 M 2007 C M 2007 M 2007 M 2007 C M 2007 M	SS SS-P D2S	0.18	SEPARATOR FOR SS0.18
	D2SW D2SW-P	0.4	SEPARATOR FOR SS0.4

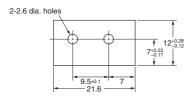
Note. The Separator is made of EAVTC (epoxy alkyd/varnish tetron cloth) and has heat-resistant temperature of +130°C.

## ■Dimensions (Unit: mm)

### SEPARATOR FOR V0.18 SEPARATOR FOR V0.25



### SEPARATOR FOR SS0.18 SEPARATOR FOR SS0.4



## Actuator (Sold Separately)

Actuators are supplementary components used when operating the Switch using cams or dogs or when transmitting mechanical movements that are not in alignment with the switch plunger. The VAL models are suitable for cases where a Switch is

operated by a rotary cam or sliding devices with relatively low operation frequency.

The VAM models are designed to operate in reverse movements and have high shock and vibration resistance. Since the

Overtravel (OT) of these models is rather large, they can be used for automatic control or door switches of machining tools.

## Dimensions (Unit: mm) / Operating Characteristics

\* Model numbers are for the Actuators only.

The value given for operating characteristics are reference values. For operating characteristics of models not listed above, consult your OMRON sales representative.

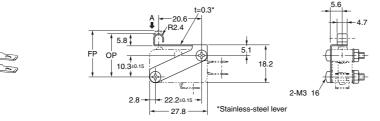
## Leaf Spring Model



### VAL t=0.3, width 4.7 In the case of -21.8 V-15-1A5 Operating characteristics 2.26 N {230 gf} **Operating Force** OF Max. 5 RF **Releasing Force** Min 0.49 N {50 gf} O 18 2 10.3±0.15 Overtravel OT Min 0.8 mm Movement Differential MD Max 0.4 mm 1L 2-M3 16 Free Position FP Max 17 mm 22.2±0.15 2.8 \*Stainless-steel leve **Operating Position** OP 14.9±0.5 mm 27.8

Note. Pin plunger (Designed for models of OF 1.96 N {200 gf} or greater).

### Simulated Leaf Spring **VAL12**



4.8 dia. 4.8

10.1

22.2±0.08

27.8

20 6

In the case of Operating characteristics V-15-1A5 Operating Force OF Max. 2.26 N {230 gf} **Releasing Force** RF Min 0.49 N {50 gf} Overtravel OT Min 0.8 mm Movement Differential MD Max 0.4 mm FP Free Position Max 22 9 mm OP 20.5±0.8 mm **Operating Position** Note. Pin plunger (Designed for models of OF

1.96 N {200 gf} or greater).

### In the case of Operating characteristics V-15-1A5 Operating Force OF Max. 2.26 N {230 gf} Releasing Force RF Min. 0.49 N {50 gf} Overtravel OT Min 0.8 mm Movement Differential MD Max 0.4 mm Free Position FP Max 22.6 mm **Operating Position** OP 20.5±0.5 mm Note. Pin plunger (Designed for models of OF

1.96 N {200 gf} or greater).

Note1. Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions. Note2. The operating characteristics are for operation in the A direction ( -).

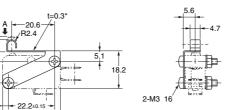
FF O

10.3±0.05

2.8

VAL2

VAL02



4.8

2-M3 16

VAL2: polvacetal resin roller

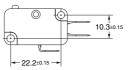
VAL02: Stainless-steel roller

Roller Leaf Spring	

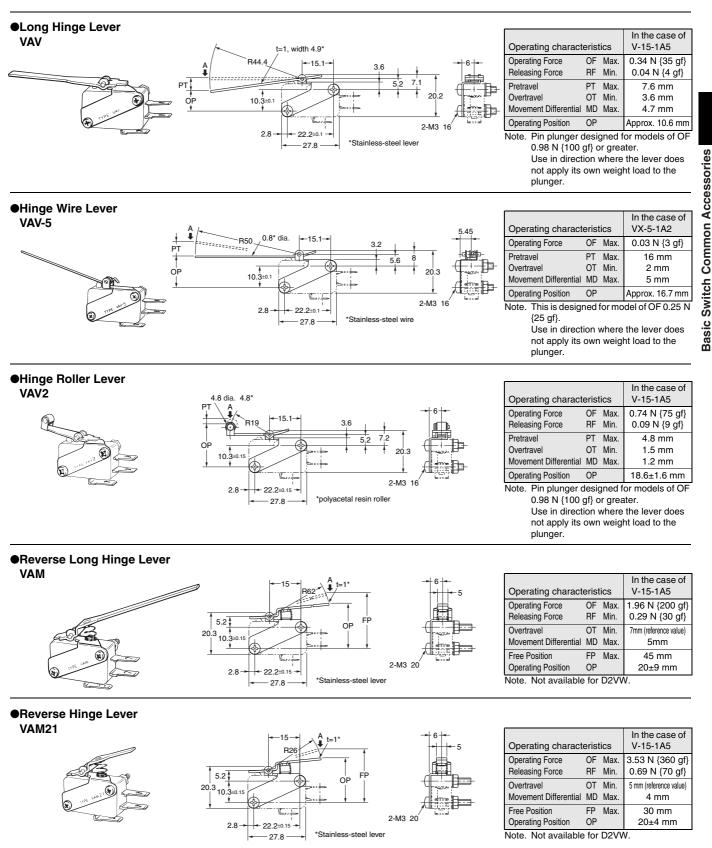


The VAV models can be used where a small Operating Force (OF) is required.

These Actuators do not include Switches.

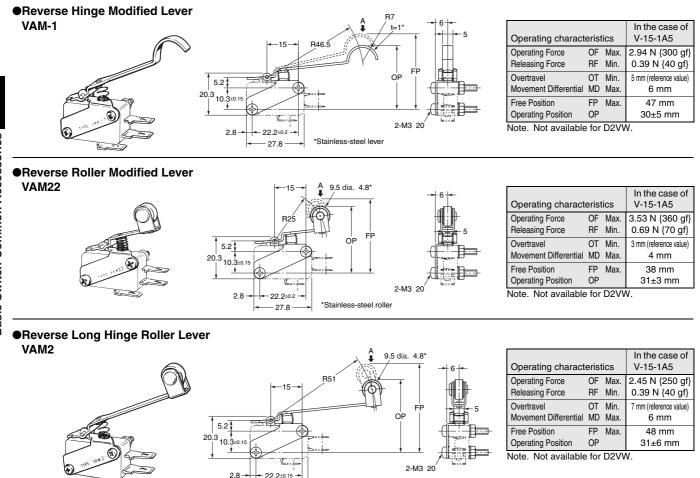


Note. Switches with the mounting holes shown in the diagram can be used except for special models



Note1. Unless otherwise specified, a tolerance of  $\pm 0.4$ mm applies to all dimensions. Note2. The operating characteristics are for operation in the A direction ( $\clubsuit$ ).

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\*Stainless-steel roller

Note1. Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions.

22.2±0.15

27.8

Note2. The operating characteristics are for operation in the A direction (  $\clubsuit$  ).

 Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

Note: Do not use this document to operate the Unit.

## **OMRON** Corporation ELECTRONIC AND MECHANICAL COMPONENTS COMPANY

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