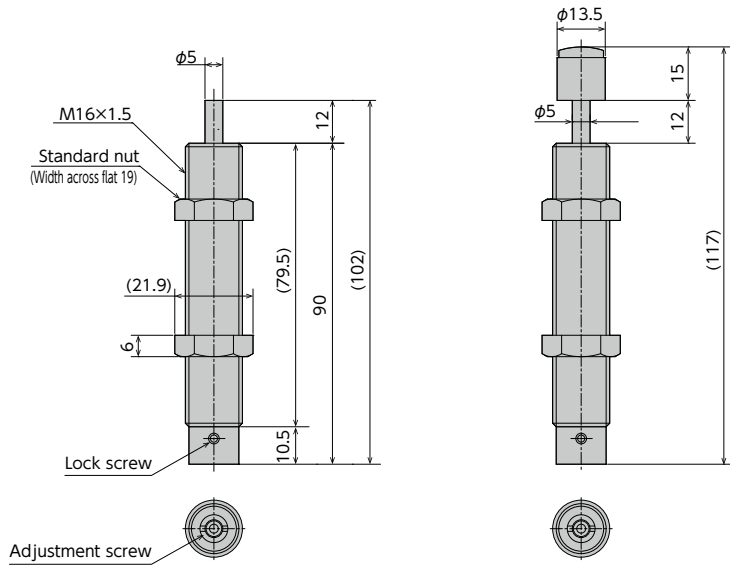


# Soft Absorber

## FA-1612X Series



## Specifications

Model	Stroke mm	Max. absorption energy J (kgf·m)	Max. equivalent mass kg (kgf)	Range of impact rate m/s	Orifice type
FA-1612X1-S	12	14.7	200 (200)	0.3~1	Single-orifice type
FA-1612X1-C					
FA-1612X2-S					
FA-1612X2-C			120 (120)	0.3~2	Multiple-varying orifice type
FA-1612X3-S					
FA-1612X3-C			35 (35)	0.7~3	Multiple-orifice type

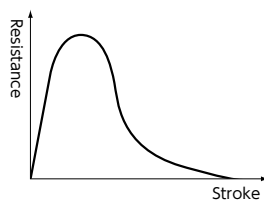
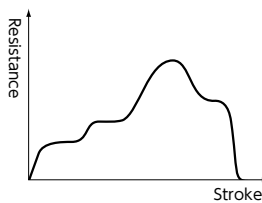
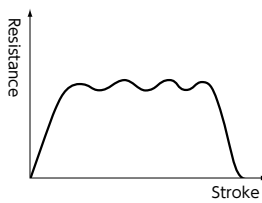
Note) To place an order without a cap, put -S at the end of the model number, and to place an order with a cap, put -C at the end of the model number.

## Common Specifications

Max. drag	N (kgf)	3,528 (360)	Operating temperature	°C	-5~70
Max. cycle rate	cycle/min	60	Mass : S type	g	98
Max. absorption energy per minute	J/min (kgf·m/min)	235 (24)	: C type	g	107
Recovering power of the piston rod	N (kgf)	19.6 (2.0) or lower			

## Selection Guideline

The FA-1612-FWM series has the following three patterns of absorption characteristics depending on the orifice type. Please use the following information as a guideline when making your

Orifice type	Single-orifice type	Multiple-varying orifice type	Multiple-orifice type
Model number	FA-1612X1 series	FA-1612X2 series	FA-1612X3 series
Application	For low-speed	For medium speed, in particular with a pneumatic cylinder	For high-speed
Absorption characteristics			

## Precautions for Use

- \* Do not use this product without carefully reading the attached owner's manual.
- \* Ensure that an external stopper (Stopper nut OP-020HB) is also used.
- \* Do not turn the oil inlet screw located at the bottom of the main unit.
- \* Ensure that sufficient mounting strength is secured for this product. (As a guideline, it should be 2 to 3 times the maximum drag listed in the catalogue.)
- \* Do not use this product in a vacuum or a location where it may come in contact with oil.
- \* Ensure that an eccentric load is not applied to the soft absorber (Allowable eccentric angle: within  $\pm 2.5^\circ$ )

## Adjustment Method

- \* To adjust, turn the adjustment knob with a slotted screw driver.
- \* Because the adjustment can be done in an analog manner, a value between two integers on the indicator can be set.
- \* It does not have a lock screw for locking the adjusted setting.

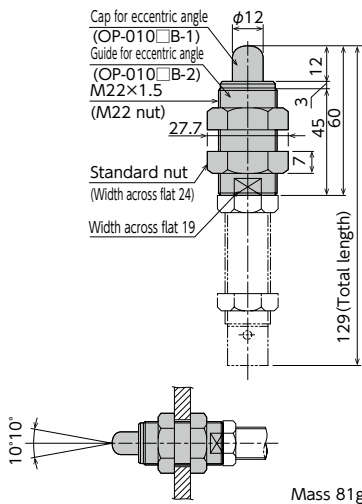
● Products specification might be changed without notice.

## Optional Parts

### Eccentric angle adaptor OP-010XB

Model
OP-010XB

- Screw the eccentric angle adaptor into the main unit until the cap for the eccentric angle and the piston rod form a tight connection. While maintaining this position, fasten the main unit's nut until secured.
- Use the eccentric angle adaptor when the eccentric angle is 2.5° or larger.
- The main unit can also be used as a stopper.
- Use it with a capless soft absorber.
- The maximum operating eccentric angle with an eccentric angle adaptor is ±10°.
- The caps and the guides for inclined use are not unbundled.

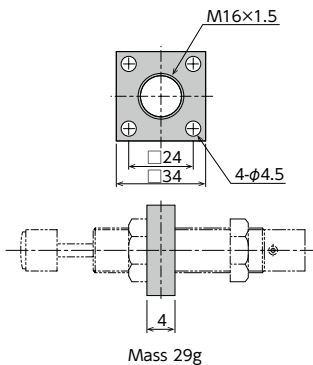


Note) Material of cap for eccentric angle: POM

### Square flange OP-040XB

Model
OP-040XB

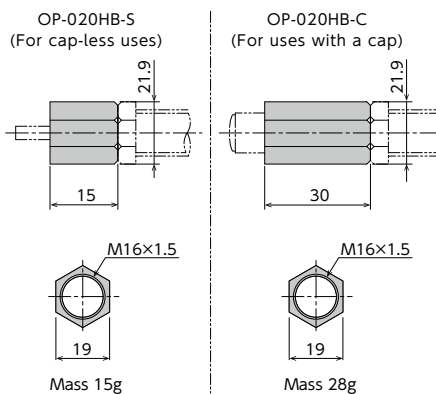
- Once the attachment site is determined, use the main unit's nut to securely fasten in place.



### Stopper nut OP-020HB

Model
OP-020HB-S
OP-020HB-C

- Adjust so that it stops 1mm before the stroke end, and fasten with the main unit's nut until secured.

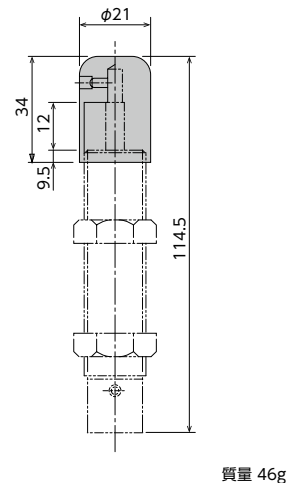


Note) When attaching, make sure that the side without a bearing chamfer is the impact surface.

### Liquid-proof cap FA-1612X□-C-060

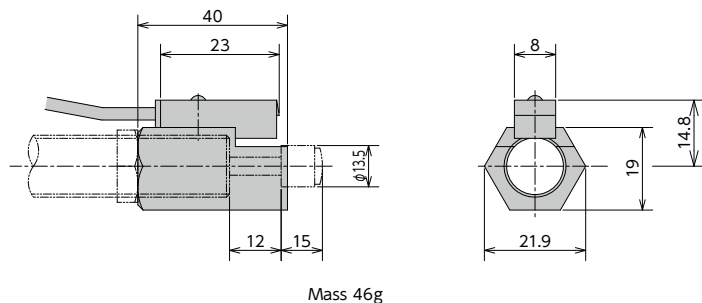
Model
FA-1612X□-C-060

- A drip-proof cap is fitted on the unit on delivery.
- Liquid-proof caps are not sold separately.
- Ensure that the cap is facing upward. If the cap is facing sideways or downward, it cannot provide an effective means for liquid proofing.
- F□□-16120M□□-C-060
  - The model number 1, 2, or 3 is inserted in the □ of X□.



### Holder with a switch OP-032HB (With a stopper function)

Model
OP-032HB



- Although a holder with a switch can be ordered on its own, we strongly recommend ordering one with the main unit. Please include the main unit's model number when placing an order.
- For switch specifications and precautions for use, please refer to page 23.

Standard nuts are sold separately as well.

Applicable Models	Model
FA-1612X	M16 nut