



### SPECIFICATIONS

Model	Stroke mm	Max Energy Absorption J(kgf·m)	Max Equiv. Mass kg(kgf)	Range of Impact Rate m/s	Orifice Type
FWM-1210MBD-S	10	4.9(0.5)	30(30)	0.3~2	Multiple-varying orifice type

### COMMON SPECIFICATIONS

Max Drag N(kgf)	Max Cycle Rate cycle/min	Max Energy Absorption per min. J/min(kgf·m/min)	Extension Force N(kgf)	Operating Temp. C°	Mass g
1470(150)	60	98(10)	9.8(1.0) or lower	-5~70	44

### PRECAUTIONS FOR USE

- Do not use this product without carefully reading the attached owner's manual.
- Ensure that an external stopper (Stopper nut OP-020KB) 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.
- 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.

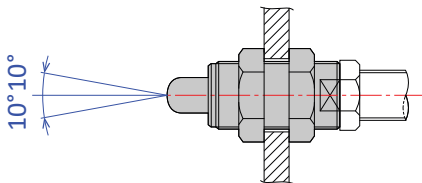
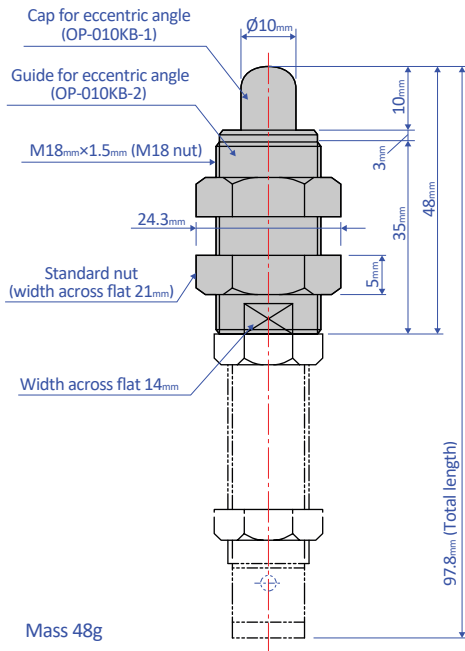
### ABSORPTION CHARACTERISTICS

Orifice type	Multiple-orifice type	
Model number	FWM-1210MBD Series	
Application	For medium speed, in particular with a pneumatic cylinder	

## OPTIONAL PARTS

### Eccentric angle adaptor OP-010KB

- 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 it is 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  $\pm 10^\circ$ .
- The caps and the guides for inclined use are not unbundled.

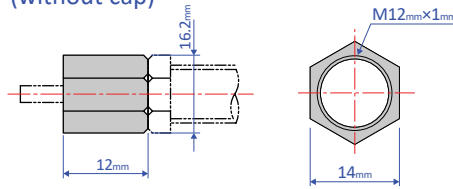


Note: Material of cap for eccentric angle: POM

### Stopper nut OP-020KB

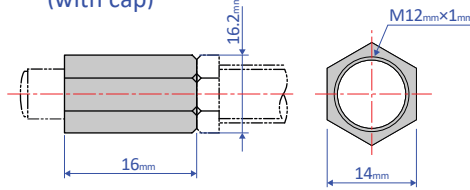
- Adjust so that it stops 1 mm before the stroke end, and fasten with the main unit's nut until secured.

#### OP-020KB-S (without cap)



Mass 6g

#### OP-020KB-C (with cap)



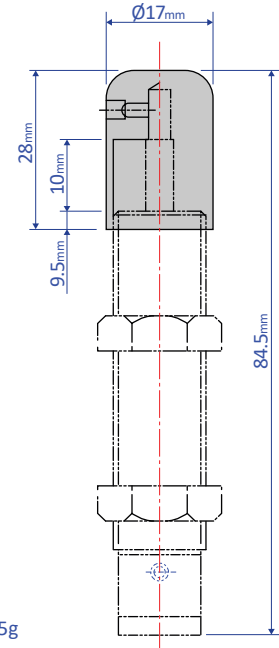
Mass 8g

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

Standard nuts are sold separately as well - M12 Nut

### Liquid-proof cap FWM-1210MBD-C-060

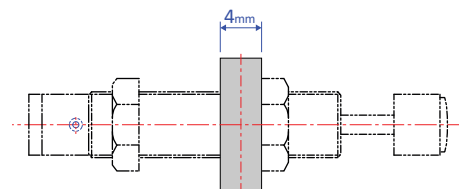
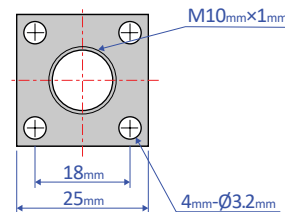
- Ideal for use in environments where oil splatter poses a problem.
- Ensure that the cap is facing upward. If the cap is facing sideways or downward, it cannot provide an effective means for liquid proofing.



Mass 25g

### Square flange OP-040KB

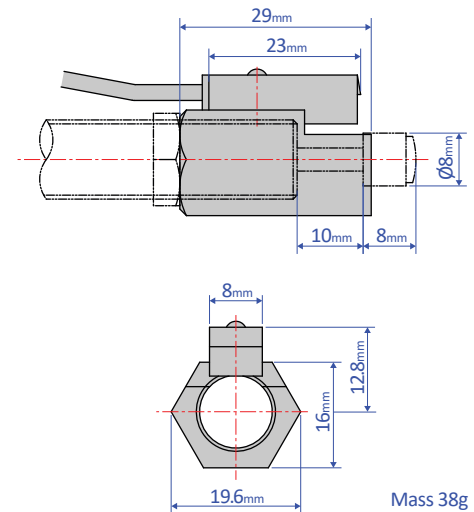
- Once the attachment site is determined, use the main unit's nut to securely fasten in place.



Mass 16g

### Holder with a switch OP-030KB-2

- 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.



Mass 38g