



## **SPECIFICATIONS**

Model	Stroke mm	Max Energy Absorption J(kgf·m)	Max Equiv. Mass kg(kgf)	Range of Impact Rate m/s	Orifice Type
FWM-1612XBD-S	12	9.8(1.0)	50(50)	0.1~3	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
2,646 (270)	60	235(24)	14.7(1.5) or lower	-5~70	108

## **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 ±2.5°)

## **ADJUSTMENT METHOD**

- To adjust, turn the adjustment knob located at the bottom of the main unit.
- Because the adjustment can be done in an analog manner, a value between two integers on the indicator can be set.
- Once the adjustment is complete, secure with a lock screw using a hex wrench.

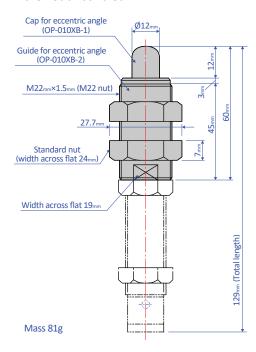
# **ABSORPTION CHARACTERISTICS**

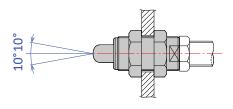
Orifice type	Multiple-orifice type	Absorption characteristics		
Model number	FWM-1612XBD Series	Resistance		
Application	For medium speed, in particular with a pneumatic cylinder	Stroke		

### **OPTIONAL PARTS**

#### **Eccentric angle adaptor 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 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 ±10°.
- The caps and the guides for inclined use are not unbundled.

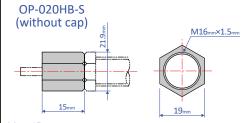




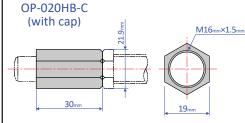
Note: Material of cap for eccentric angle: POM

## Stopper nut OP-020HB

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



Mass 15g



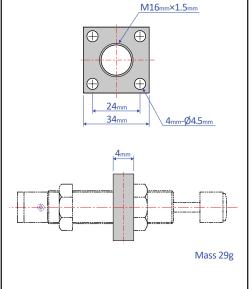
Mass 28g

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

Standard nuts are sold separately as well - M16 Nut

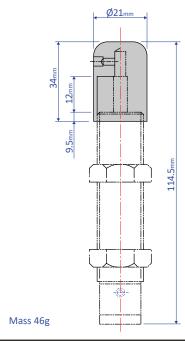
# Square flange OP-040XB

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



#### Liquid-proof cap FWM-1612XBD-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.



#### Holder with a switch OP-030HB-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.

