



# **SPECIFICATIONS**

Model	Stroke mm	Max Energy Absorption J(kgf·m)	Max Equiv. Mass kg(kgf)	Range of Impact Rate m/s	Orifice Type
FWM-S1612XBD-C	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	2,646 (270)	60	235(24)	14.7(1.5) or lower	-5~70	117

# **PRECAUTIONS FOR USE**

- Do not use this product in places where it may come in contact with oil as it does not have a liquid-proof structure.
- Please contact our sales department when the use of optional parts is planned.
- Although the dimensions are identical to those of the FA series standard products (adjustable), the FWM-S2016 series has a longer overall length.

# **ADJUSTMENT METHOD**

- Please peruse the operation manual carefully before use.
- Do not operate without sufficient mounting strength.
- Do not operate without an external stopper.
- Note that Products specification might be changed without notice.

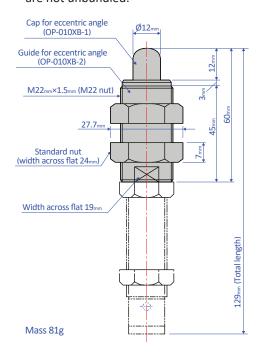
# **ABSORPTION CHARACTERISTICS**

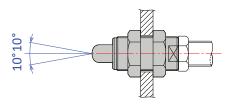
Orifice type	Multiple-orifice type	Absorption characteristics		
Model number	FWM-S1612XBD Series	Resistance		
Application	For medium speed, in particular with a pneumatic cylinder	Stroke		

### **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.

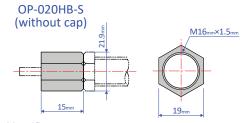




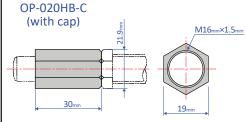
Note: Material of cap for eccentric angle: POM

# 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



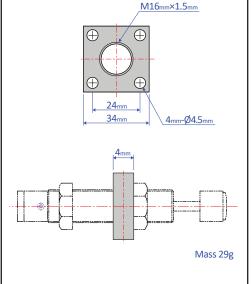
Mass 28g

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

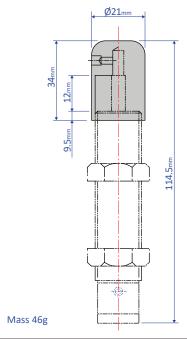
# Square flange OP-040XB

 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.

