Soft Absorber

Double Direction Type | Multiple-orifice type | Fixed Type | Adjustable type | Self-adjusting

FW Series (M12~M25)

RoHS Compliant

Products specification might be changed without notice.



Characteristics

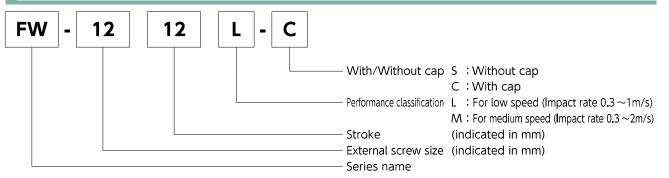
- This product is a double-rod type that can absorb impact from both directions.
- Because of its multiple-orifice structure, a smooth impact absorption is possible.
- Idea for small spaces.

Specifications

	Stroke	Max. absorption			Max. drag		Max. absorption energy	Recovering power of	Operating temperature	Mass g	
Model	mm mm	energy J (kgf·m)	mass kg (kgf)	impact rate m/s	N (kgf)	cycle rate cycle/min	per minute J/min(kgf•m/min)	the piston rod N (kgf)		S type	C type
FW-1212L-C	12	4.9(0.5)	39(39)	0.3~1	1,078(110)	60	41 (4.2)	7.8(0.8) or lower	- 5~70	_	64
FW-1616M-	16	13.7(1.4)	30 (30)	0.3~2	2,646 (270)	60	235 (24)	17.6(1.8)) or lower	- 5~70	130	142
FW-2025M-	25	39.2(4.0)	87(87)	0.3~2	4,900 (500)	60	343 (35)	24.5(2.5)) or lower	- 5~70	234	271
FW-2530M-□	30	62.7(6.4)	140(140)	0.3~2	6,370(650)	60	490 (50)	29.4(3.0)) or lower	- 5~70	460	527

Note) Insert S in the \Box to order without a cap, and insert C in the \Box to order with a cap (R if ordering urethane cap).

Key to Model Number



Precautions for Use

- * Do not use this product without carefully reading the attached owner's manual.
- * 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.)
- * It cannot absorb impact from both directions at the same time.
- * 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: $\pm 2.5^{\circ}$ C)
- * Ensure that an external stopper is also used.

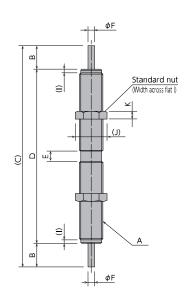
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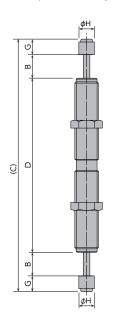
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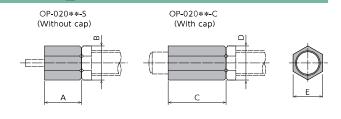


Dimensions

Model	Α	В	С	D	Е	φF	G	φН		J	K	L
FW-1212L-C	M12×1.0	12	130	90	5	3.5	8	8	2	16.2	4	14
FW-1616M-S	M16×1.5	16	134	102	_	5	_	_	6	21.9	6	19
FW-1616M-C			164				15	13.5	6			
FW-2025M-S	M20×1.5	25	170	120	_	6	-	_	6	27.7	8	24
FW-2025M-C			204				17	18	6			
FW-2530M-S	M25×1.5	30	205	——— 145 I	_	8	_	_	6	37	10	32
FW-2530M-C			241				18	22	6			

Optional Parts

Stopper nut OP-020 ** - □ Model В C Applicable model Mass g OP-020KB-C 16 16.2 14 FW-1212L-C 8 19 15 OP-020HB-S 15 21.9 FW-1616M-S OP-020HB-C 21.9 19 28 30 FW-1616M-C OP-020EB-S 46 30 27.7 24 FW-2025M-S OP-020EB-C 24 68 47 27.7 FW-2025M-C OP-020GB-S 20 37 FW-2530M-S 65 32 OP-020GB-C 32 37 32 FW-2530M-C 102



• Adjust so that it stops 1mm before thestroke 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.

Standard nuts are sold separately as well.

Applicable model	Model				
FW-1212L	M12 nut				
FW-1616M	M16 nut				
FW-2025M	M20 nut				
FW-2530M	M25 nut				