



FPD-1012 Series

RoHS Compliant

U Packing Seal Type, Single Orifice Structure, Fixed



Model Description

F P D - 1 0 1 2 A 1 - S B
 ① ② ③ ④ ⑤

① Base model

② External diameter, Stroke

③ Symbols indicating characteristics

A1: Low-load specifications

A3: Medium-load specifications

A5: High-load specifications

④ Symbols indicating form

S: S type (Standard)

C: C type (Cap)

R: R type (Elastomer cap)

D: D type (Eccentric angle cap)

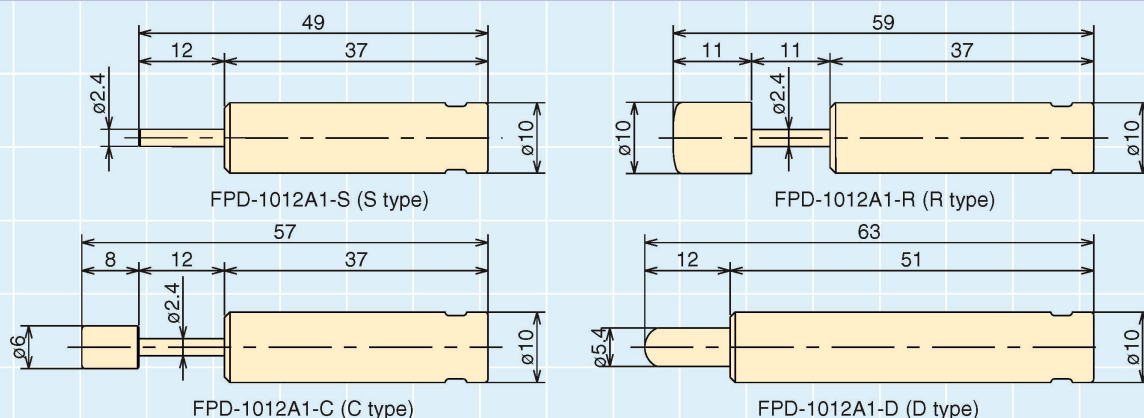
* Please refer to the external dimensions.

⑤ Color symbols

W: White

B: Black

<External Dimensions>

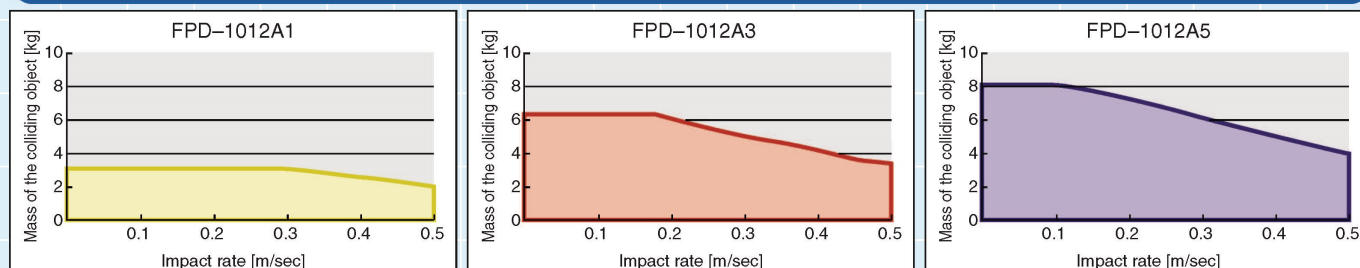


<Specifications>

Model	Load [kg]	Max. absorption energy [J (kgf·m)]	Speed range [m/s]	Cylinder cap colour
FPD-1012A1	1	0.5 (0.05)	0.5 or lower	Black
FPD-1012A3	3	0.8 (0.08)	0.5 or lower	White
FPD-1012A5	5	1.0 (0.10)	0.5 or lower	Blue

*Please refer to next page for motion time at each load.

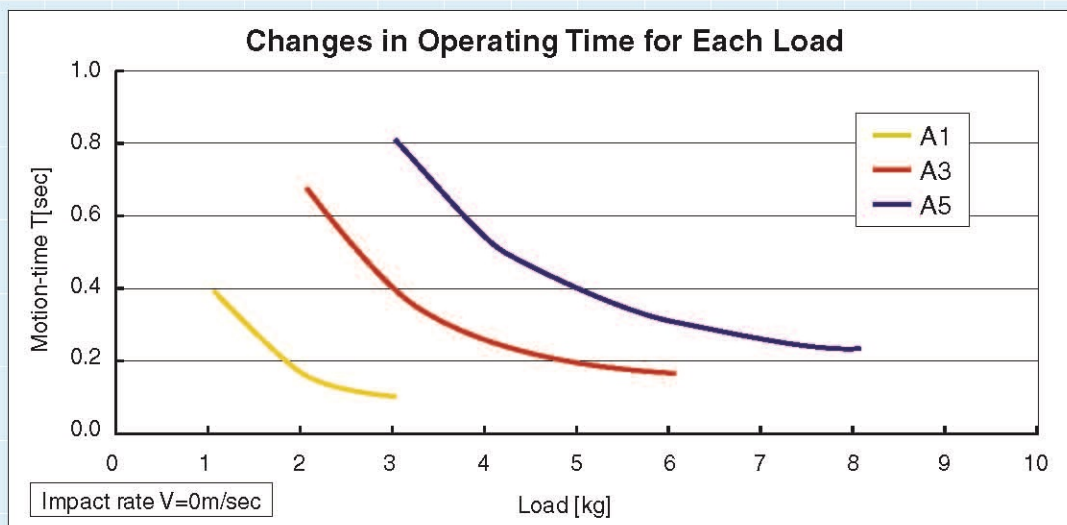
<Impact rate and mass of the colliding object in freefall>



<Common Specifications>

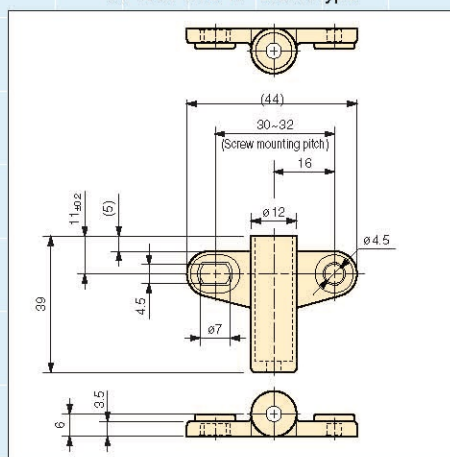
Stroke (S/C/D type)	mm	12	Mass	g	S type=4.5g, C type=5.0g, R type=5.7g, D type=6.0g
Stroke (R type)	mm	11	Main unit material		Resin
Recovering power of the piston rod	N (kgf)	3 (0.3) or less	Operating temperature	°C	5~40°C

<Characteristics Graph>



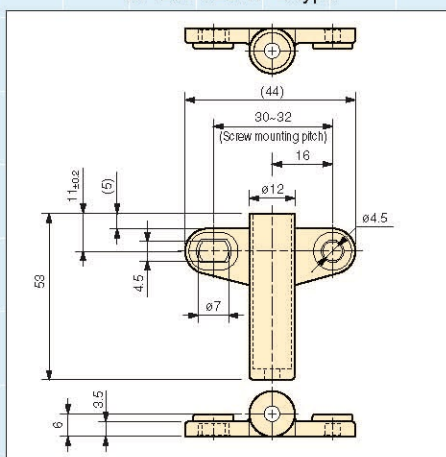
<Optional Parts>

OP-200-01B/W S/C/R type



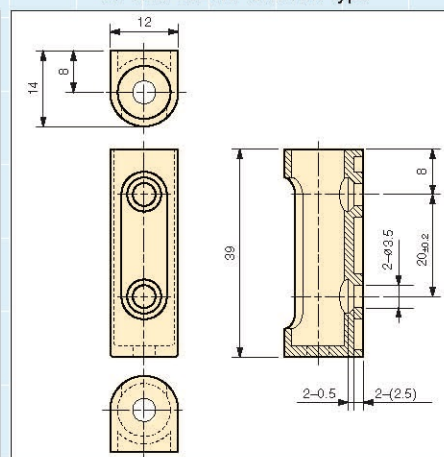
Screw: M4 (Truss screw)
Recommended tightening torque : 0.5N-m

OP-200-02B/W D type



Screw: M4 (Truss screw)
Recommended tightening torque : 0.5N-m

OP-200-03B/W S/C/R/D type



Screw: M3 (Flat head screw)
Recommended tightening torque : 0.3N-m

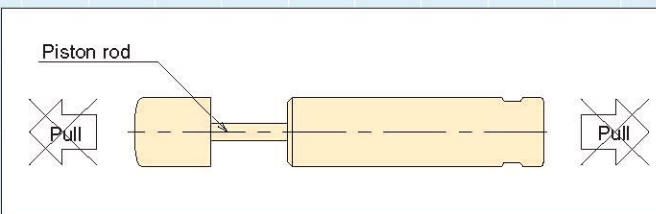
- *These adaptors are dedicated for FPD-1012A series
- *They make it easy to install absorbers.
- *There are 2 colors: white and black.
- *Material : Polyacetal (POM)

<Precautions for Use>

- * Do not use this product without carefully reading the attached owner's manual.
- * Use with an external stopper.
- * Ensure that sufficient mounting strength is secured for this product.
- * 2 or more of this product can be used in parallel.
- * 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.
 - S/C/R type ... Allowable eccentric angle: $\pm 2.5^\circ$ or less
 - D type Allowable eccentric angle: $\pm 6^\circ$ or less
- * Do not pull the piston rod of the soft absorber.

(This will cause air to get inside the soft absorber, causing ineffective stroke, abnormal sounds, and other damage to the soft absorber.)

*The difference between the speed of stroke and return of piston rod might influence the durability of the damper. So, please confirm sufficient performance on actual machine before use.





Available Soon

FPD-1070/1060/1050/1030 Series

RoHS Compliant

U-Packing Seal Type

Fixed



Model Description

F P D — 1 0 7 0 B 1 — S W

① ② ③ ④ ⑤

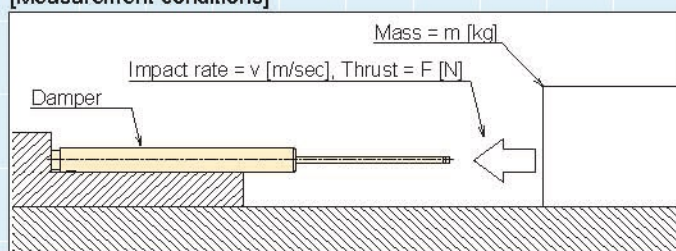
- ① Base model
- ② External diameter, stroke
- ③ Self-return presence A: With returning spring
B: Without returning spring
- ④ Symbols indicating characteristics
 - 1: Low load (low thrust) specifications
 - 2: Medium load (medium thrust) specifications
 - 3: High load (high thrust) specifications
- ⑤ Symbols indicating shape SW: Without cap
CW: With cap

<Motion performance>

Model	Load [kg]	Thrust [N]	Impact rate [m/sec]	Motion time [sec]	Recovering power of the piston rod [N]	Bottom color *
FPD-1070B1-□W	10	5	0.5	0.3~2.0	1.5 or less	Black
FPD-1070B2-□W	15	8	0.5	0.4~2.2	1.5 or less	White
FPD-1070B3-□W	15	13	0.5	0.5~2.5	1.5 or less	Gray
FPD-1060A1-□W	10	8	0.5	0.3~2.0	6.0 or less	Black
FPD-1060A2-□W	10	10	0.5	0.4~2.2	6.0 or less	White
FPD-1060A3-□W	10	15	0.5	0.5~2.5	6.0 or less	Gray
FPD-1050A1-□W	10	8	0.5	0.3~2.0	6.0 or less	Black
FPD-1050A2-□W	10	10	0.5	0.4~2.2	6.0 or less	White
FPD-1050A3-□W	10	15	0.5	0.5~2.5	6.0 or less	Gray
FPD-1050B1-□W	10	5	0.5	0.3~2.0	1.5 or less	Black
FPD-1050B2-□W	15	8	0.5	0.4~2.2	1.5 or less	White
FPD-1050B3-□W	15	13	0.5	0.5~2.5	1.5 or less	Gray
FPD-1030A1-□W	10	6	0.3	0.2~1.5	5.0 or less	Black
FPD-1030A2-□W	10	8	0.3	0.2~1.5	5.0 or less	White
FPD-1030A3-□W	10	13	0.3	0.3~1.6	5.0 or less	Gray
FPD-1030B1-□W	10	5	0.3	0.2~1.2	1.5 or less	Black
FPD-1030B2-□W	10	8	0.3	0.2~1.2	1.5 or less	White
FPD-1030B3-□W	10	13	0.3	0.3~1.3	1.5 or less	Gray

The above performance was measured using Fuji Latex's instruments. So, please select dampers accordingly, and confirm operation on actual machines before selecting final models.

[Measurement conditions]



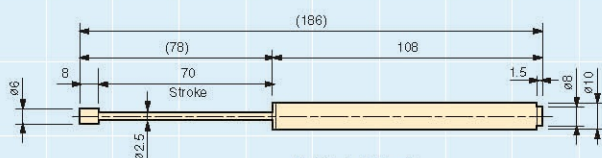
Bottom color *



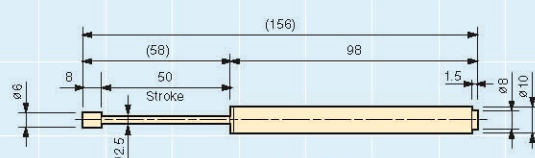
<Specifications>

Stroke [mm]	FPD-1070=70mm, FPD-1060=60mm, FPD-1050=50mm, FPD-1030=30mm
External diameter [mm]	φ10
Mass [g]	FPD-1070-SW=13.5g, FPD-1070-CW=14g, FPD-1060-SW=13.5g, FPD-1060-CW=14g FPD-1050-SW=12g, FPD-1050-CW=12.5g, FPD-1030-SW=8g, FPD-1030-CW=8.5g
Main unit material	Resin
Operating temperature [°C]	5~40

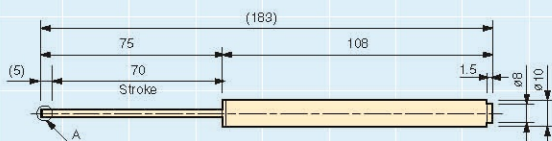
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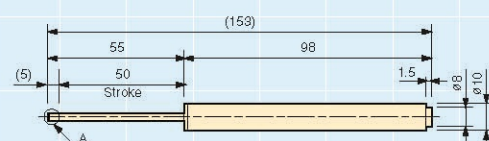
FPD-1070-C



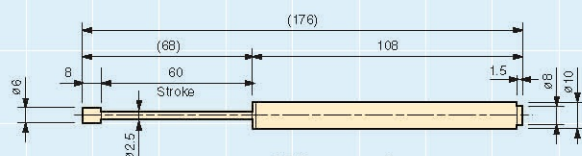
FPD-1050-C



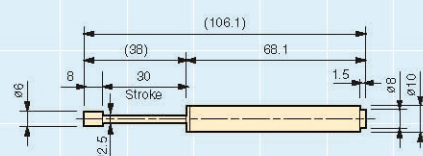
FPD-1070-S



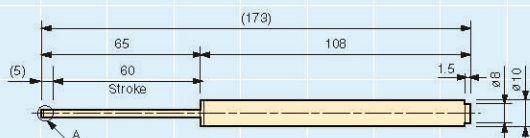
FPD-1050-S



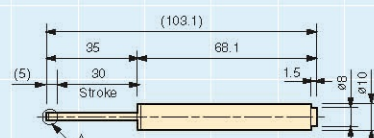
FPD-1060-C



FPD-1030-C

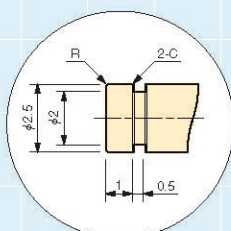


FPD-1060-S



FPD-1030-S

Close up to A



*The FPD-1070B series can be sold only without the spring.

*The FPD-1060A series can be sold only with the spring.

*E-type retaining ring (nominal 2) can be attached to top of S type (A in above drawing).

<Precautions in Use>

*Do not use this product without carefully reading the attached owner's manual.

*Use with an external stopper.

*Ensure that sufficient mounting strength is secured for this product.

*2 or more of this product can be used in parallel.

*Do not use this product in a vacuum or a location where it may come in contact with oil.

*Ensure that an eccentric load (lateral load) is not applied to the soft absorber.

*Do not pull the piston rod of the soft absorber more than stroke.

(This will cause air to get inside the soft absorber, causing ineffective stroke, abnormal sounds, and other damage to the soft absorber.)

*Do not push the piston rod of the soft absorber more than stroke.

*(This will cause recovery failure and other damage to the soft absorber.)

