# **Linear Dampers**

# FPD-1030/1050/1060/1070/10100/10150 Series



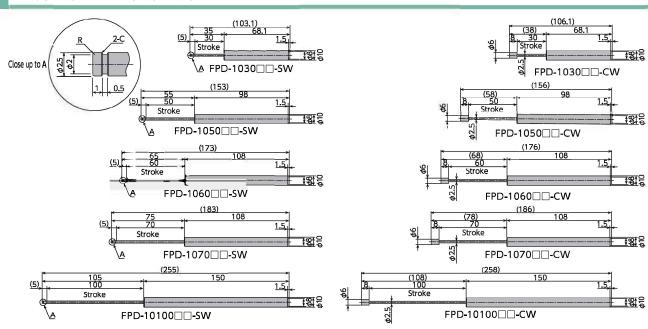
Model Description

FPD - 103 0 - SW

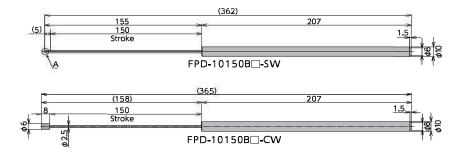
- ① Series name
- 2 External diameter
- 3 Stroke
- 4 Self-return presence
- A: With returning spring
- B: Without returning spring
- ⑤ Symbols indicating characteristics 1:Low load (low thrust) specifications
  - 2: Medium load (medium thrust) specifications
  - 3: High load (high thrust) specifications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

CW: With cap

#### **External Dimensions**



- \*The FPD-1070B series can be sold only without the spring.
- \*The FPD-1060A series can be sold only with
- \*E-type retaining ring (nominal 2) can be attached to top of S type (A in above drawing).



## **Specifications**

Stroke[mm]	FPD-1030=30.FPD-1050=50.FPD-1060=60.FPD-1070=70.FPD-10100=100.FPD-10150=150
External diameter[mm]	
Mass[g]	FPD-1030-SW=8, FPD-1030-CW=8.5, FPD-1050-SW=12, FPD-1050-CW=12.5, FPD-1060-SW=13.5, FPD-1060-CW=14, FPD-1070-SW=13.5, FPD-1070-CW=14, FPD-10100-SW=18.5, FPD-10100-CW=19, FPD-10150-SW=26.1, FPD-10150-CW=26.4
Main unit material	Resin
Operating temperature[℃]	5~40

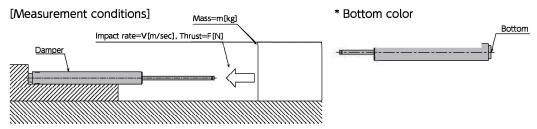
**RoHS Compliant** 

Products specification might be changed without notice.

### **Motion performance**

Model	Load [kg]	Thrust [N]	Impact rate [m/sec]	Motion time [sec]	Recovering power of the piston rod[N]	<b> ⊗Bottom color</b>
FPD-1030A1-□W	10	6	0.3	0.2~1.5	5 or less	Black
FPD-1030A2-□W	10	8	0.3	0.2~1.5	5 or less	White
FPD-1030A3-□W	10	13	0.3	0.3~1.6	5 or less	Grey
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	Grey
FPD-1050A1-□W	10	8	0.5	0.3~2.0	6 or less	Black
FPD-1050A2-□W	10	10	0.5	0.4~2.2	6 or less	White
FPD-1050A3-□W	10	15	0.5	0.5~2.5	6 or less	Grey
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	Grey
FPD-1060A1-□W	10	8	0.5	0.3~2.0	6 or less	Black
FPD-1060A2-□W	10	10	0.5	0.4~2.2	6 or less	White
FPD-1060A3-□W	10	15	0.5	0.5~2.5	6 or less	Grey
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	Grey
FPD-10100B1-□W	10	5	0.5	0.8~3.0	1.5 or less	Black
FPD-10100B2-□W	15	8	0.5	0.8~3.2	1.5 or less	White
FPD-10100B3-□W	15	15	0.5	1.5~5.5	1.5 or less	Grey
FPD-10150B1-□W	20	15	0.5	0.8~3.5	4.0 or less	Black
FPD-10150B2-□W	20	20	0.5	0.8~3.5	4.0 or less	White
FPD-10150B3-□W	20	25	0.5	0.8~3.5	4.0 or less	Grey

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.



#### **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 linear damper.
- \* Do not pull the piston rod of the linear damper more than stroke.

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

- \* Do not push the piston rod of the linear damper more than stroke.
- (This will cause recovery failure and other damage to the linear damper.)
- \* Although the main body of the FPD-10150B series may be slightly warped, there is no problem in terms of quality. However, it should be used after sufficiently confirming that there is no problem with respect to installation.

