

Linear Dampers

FPD-0715/0725/0745/0750/0755/0760 Series



Model Description

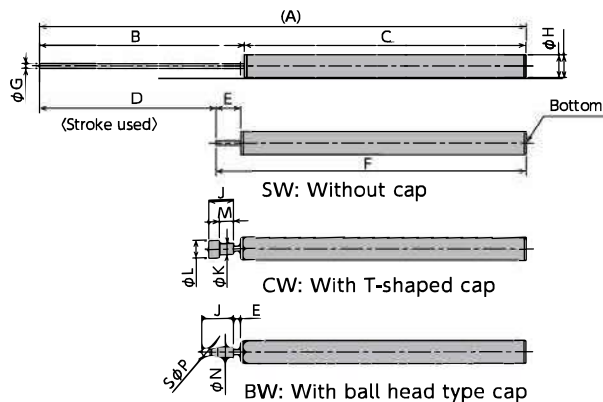
F P D - 0 7 4 5 A 1 - S W

① ② ③ ④ ⑤ ⑥

- ① Series name
- ② External diameter stroke
- ③ Stroke
- ④ With/Without self-returning
 - A : With Returning Spring
 - B : Without Returning Spring
- ⑤ Characteristics Number
 - 1 : Low-load (low thrust) specifications
 - 2 : Medium-load (medium thrust) specifications
 - 3 : High-load (high thrust) specifications
- ⑥ Symbols indicating form SW: Without cap
CW : With T-shaped cap
BW : With ball head type cap

External Dimensions

FPD-0715/0745/0750/0755/0760 External Dimensions



FPD-0725 External Dimensions

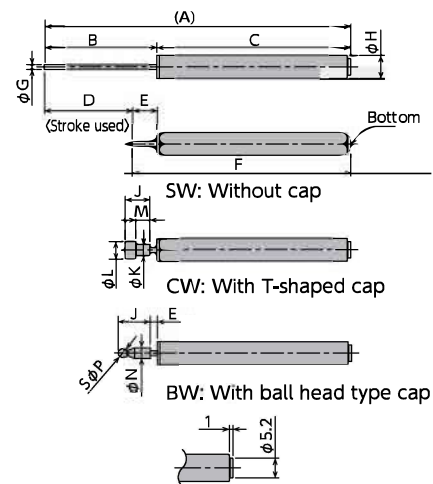


Fig. 1 Bottom Shape of FPD-0725 Series

*FPD-0715A Series are provided with Returning Spring Type only

*The shape of the bottom of FPD-0725 series differs from FPD-07□□ series. (Ref. Fig. 1)

Dimensions

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Mass(g)
FPD-0715A□-SW	66	22	44	15	7	51	1.5	7.2	-	-	-	-	-	-	2.7
FPD-0715A□-CW	68	24			2	53			7	3.5	5.5	4	-	-	2.9
FPD-0725A□-SW	87	32	55	25	7	62			-	-	-	-	-	-	3.4
FPD-0725A□-CW	89	34			2	64			7	3.5	5.5	4	-	-	3.6
FPD-0725B□-SW	87	32			7	62			-	-	-	-	-	-	3.2
FPD-0725B□-CW	89	34			2	64			7	3.5	5.5	4	-	-	3.4
FPD-0725B□-BW	91	36	81	45	2	66			9	-	-	-	3.4	2.8	3.3
FPD-0745A□-SW	138	57			12	93			-	-	-	-	-	-	4.9
FPD-0745A□-CW	140	59			7	95			7	3.5	5.5	4	-	-	5.1
FPD-0750B□-SW	138	57			7	88			-	-	-	-	-	-	4.7
FPD-0750B□-CW	140	59	92	50	2	90			7	3.5	5.5	4	-	-	4.9
FPD-0750B□-BW	142	61			2	92			9	-	-	-	3.4	2.8	4.8
FPD-0755A□-SW	159	67			12	104			-	-	-	-	-	-	5.6
FPD-0755A□-CW	161	69			7	106			7	3.5	5.5	4	-	-	5.8
FPD-0760B□-SW	159	67	92	60	7	99			-	-	-	-	-	-	5.3
FPD-0760B□-CW	161	69			2	101			7	3.5	5.5	4	-	-	5.5
FPD-0760B□-BW	163	71			2	103			9	-	-	-	3.4	2.8	5.4

*The characteristics number 1, 2, or 3 is inserted in the □.

●Products specification might be changed without notice.

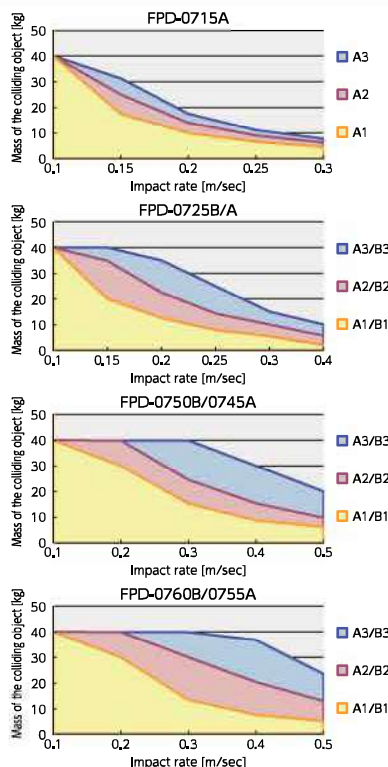
Specifications

MODEL	Max absorption energy J(kgf·m)	Speed range m/s	Cylinder cap color
FPD-0715A1-□	0.2(0.02)	Under 0.3	Black
FPD-0715A2-□	0.28(0.028)	Under 0.3	White
FPD-0715A3-□	0.3(0.03)	Under 0.3	Blue
FPD-0725A1-□	0.25(0.025)	Under 0.4	Black
FPD-0725A2-□	0.45(0.045)	Under 0.4	White
FPD-0725A3-□	0.8(0.08)	Under 0.4	Blue
FPD-0725B1-□	0.25(0.025)	Under 0.4	Black
FPD-0725B2-□	0.45(0.045)	Under 0.4	White
FPD-0725B3-□	0.8(0.08)	Under 0.4	Blue
FPD-0745A1-□	0.7(0.07)	Under 0.5	Black
FPD-0745A2-□	1.25(0.125)	Under 0.5	White
FPD-0745A3-□	2.5(0.25)	Under 0.5	Blue
FPD-0750B1-□	0.7(0.07)	Under 0.5	Black
FPD-0750B2-□	1.25(0.125)	Under 0.5	White
FPD-0750B3-□	2.5(0.25)	Under 0.5	Blue
FPD-0755A1-□	0.75(0.075)	Under 0.5	Black
FPD-0755A2-□	1.6(0.16)	Under 0.5	White
FPD-0755A3-□	2.9(0.29)	Under 0.5	Blue
FPD-0760B1-□	0.75(0.075)	Under 0.5	Black
FPD-0760B2-□	1.6(0.16)	Under 0.5	White
FPD-0760B3-□	2.9(0.29)	Under 0.5	Blue

Common Specifications

Recovering power of piston rod N(kgf)	With returning spring : ≤ 5 (0.5), Without returning spring : ≤ 1.5 (0.15)
Main unit material	Resin
Range of operating temperature, degrees C	5~40°C

Absorbable energy range under a horizontal inertial collision condition



*The absorbable energy ranges above represent the properties under a condition where no thrusting force exists.

Precautions for Use

- * 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.
- * Do not press the piston rod of linear damper in beyond the stroke used.
(This will cause the incomplete return of the piston rod and other failures.)
- * Do not pull the linear damper beyond the stroke used.
(This will cause the damage or failure of the linear damper.)
- * When the gap between the pressing time and the returning time of the piston rod is large, the durability may be affected. Confirm its performance in an actual machine before use.
- ** A falling impact will cause a deformation, damage, etc. Please handle with special care.

