Soft Absorber

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

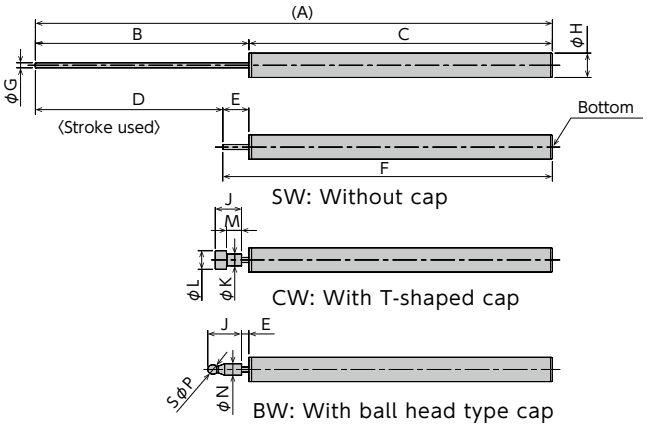
Model Description

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) specications
2 : Medium-load (medium thrust) specications
3 : High-load (high thrust) specications
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

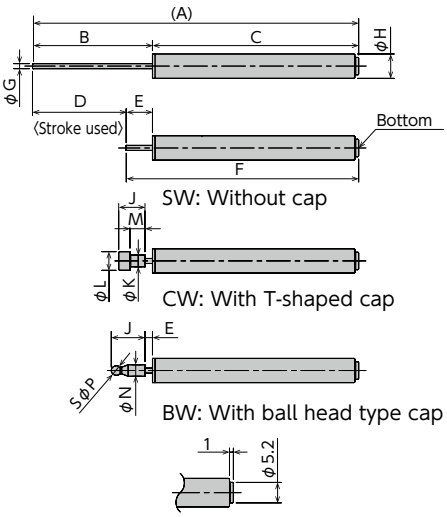


Fig. 1 Bottom Shape of FPD-0725 Series

*FPD-0715A Series are provided with Returning Spring Type only
*The shape of the bottom of FPD-0725 series diers 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				66			9	-	-	-	3.4	2.8	3.3
FPD-0745A□-SW	138	57	81	45	12	93			-	-	-	-	-	-	4.9
FPD-0745A□-CW	140	59			7	95			7	3.5	5.5	4	-	-	5.1
FPD-0750B□-SW	138	57		50	7	88			-	-	-	-	-	-	4.7
FPD-0750B□-CW	140	59			2	90			7	3.5	5.5	4	-	-	4.9
FPD-0750B□-BW	142	61				92			9	-	-	-	3.4	2.8	4.8
FPD-0755A□-SW	159	67	92	55	12	104			-	-	-	-	-	-	5.6
FPD-0755A□-CW	161	69			7	106			7	3.5	5.5	4	-	-	5.8
FPD-0760B□-SW	159	67		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				103			9	-	-	-	3.4	2.8	5.4

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

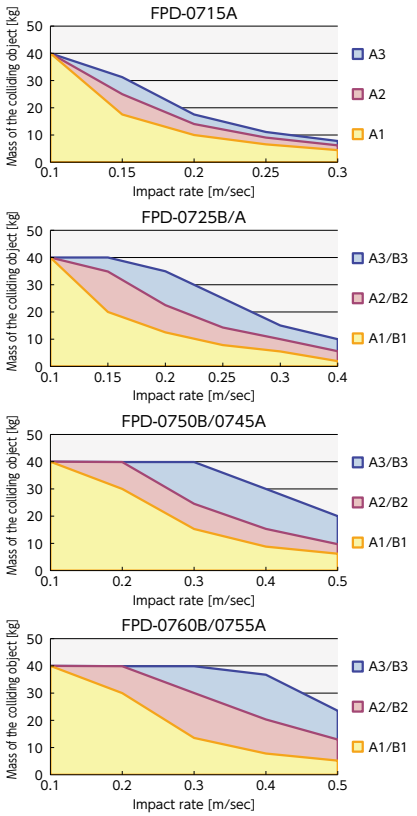
Specifications

MODEL	Max absorption evergy 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 m aterial	Resin
Range of operating te mperature, degree s C	5~40℃

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 sucient 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 soft absorber in beyond the stroke used.
  (This will cause the incomplete return of the piston rod and other failures.)
* Do not pull the soft absorber beyond the stroke used.
  (This will cause the damage or failure of the soft absorber.)
* When the gap between the pressing time and the returning time of the piston rod is large, the durability may be aected. Conrm its performance in an actual machine before use.

** A falling impact will cause a deformation, damage, etc. Please handle with special care.