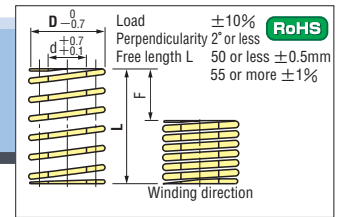
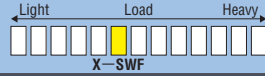


COIL SPRINGS

—X—SWF—



D	d	L	Spring constant		F=L×40%		F=L×45%		Catalog No.
			N/mm (kgf/mm)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
Operation count									
1,000,000									
500,000									
Type D—L									
8	4	10	15.7 (1.60)	4.0	4.5	63 (6.4)	71 (7.2)	X—SWF 8—10	
		15	10.5 (1.07)	6.0	6.8				
		20	7.8 (0.80)	8.0	9.0				
		25	6.3 (0.64)	10.0	11.2				
		30	5.2 (0.53)	12.0	13.5				
		35	4.5 (0.46)	14.0	15.7				
		40	3.9 (0.40)	16.0	18.0				
		45	3.5 (0.36)	18.0	20.2				
		50	3.1 (0.32)	20.0	22.5				
		55	2.9 (0.29)	22.0	24.7				
		60	2.6 (0.27)	24.0	27.0				
		65	2.4 (0.25)	26.0	29.3				
		70	2.2 (0.23)	28.0	31.5				
		75	2.1 (0.21)	30.0	33.8				
		80	2.0 (0.20)	32.0	36.0				

D	d	L	Spring constant		F=L×40%		F=L×45%		Catalog No.
			N/mm (kgf/mm)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
Operation count									
1,000,000									
500,000									
Type D—L									
16	8	20	20.6 (2.10)	8.0	9.0	165 (17)	185 (19)	X—SWF16—20	
		25	16.5 (1.68)	10.0	11.2				
		30	13.7 (1.40)	12.0	13.5				
		35	11.8 (1.20)	14.0	15.7				
		40	10.3 (1.05)	16.0	18.0				
		45	9.2 (0.93)	18.0	20.2				
		50	8.2 (0.84)	20.0	22.5				
		55	7.5 (0.76)	22.0	24.7				
		60	6.9 (0.70)	24.0	27.0				
		65	6.3 (0.65)	26.0	29.3				
		70	5.9 (0.60)	28.0	31.5				
		75	5.5 (0.56)	30.0	33.7				
		80	5.1 (0.53)	32.0	36.0				
		90	4.6 (0.47)	36.0	40.5				
		100	4.1 (0.42)	40.0	45.0				
		125	3.3 (0.34)	50.0	56.3				

D	d	L	Spring constant		F=L×40%		F=L×45%		Catalog No.
			N/mm (kgf/mm)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
Operation count									
1,000,000									
500,000									
Type D—L									
25	13.5	25	39.2 (4.00)	10.0	11.2	392 (40)	441 (45)	X—SWF25—25	
		30	32.7 (3.33)	12.0	13.5				
		35	28.0 (2.86)	14.0	15.7				
		40	24.5 (2.50)	16.0	18.0				
		45	21.8 (2.22)	18.0	20.2				
		50	19.6 (2.00)	20.0	22.5				
		55	17.8 (1.82)	22.0	24.7				
		60	16.3 (1.67)	24.0	27.0				
		65	15.1 (1.54)	26.0	29.3				
		70	14.0 (1.43)	28.0	31.5				
		75	13.1 (1.33)	30.0	33.7				
		80	12.3 (1.25)	32.0	36.0				
		90	10.9 (1.11)	36.0	40.5				
		100	9.8 (1.00)	40.0	45.0				
		125	7.8 (0.80)	50.0	56.2				
		150	6.5 (0.67)	60.0	67.5				

D	d	L	Spring constant		F=L×40%		F=L×45%		Catalog No.
			N/mm (kgf/mm)	Fmm	Load N (kgf)	Fmm	Load N (kgf)		
Operation count									
1,000,000									
500,000									
Type D—L									
40	22	40	62.7 (6.39)	16.0	18.0	1003 (102)	1129 (115)	X—SWF40—40	
		45	55.7 (5.68)	18.0	20.3				
		50	50.2 (5.11)	20.0	22.5				
		55	45.6 (4.65)	22.0	24.8				
		60	41.8 (4.26)	24.0	27.0				
		65	38.6 (3.93)	26.0	29.3				
		70	35.8 (3.65)	28.0	31.5				
		75	33.4 (3.41)	30.0	33.8				
		80	31.4 (3.20)	32.0	36.0				
		90	27.9 (2.84)	36.0	40.5				
		100	25.1 (2.56)	40.0	45.0				
		125	20.1 (2.05)	50.0	56.2				
		150	16.7 (1.70)	60.0	67.5				
		175	14.3 (1.46)	70.0	78.7				
		200	12.5 (1.28)	80.0	90.0				
		225	11.1 (1.14)	90.0	101.3				

• Load calculation method: Load=Spring constant×Deflection (SI unit)
 N=N/mm×Fmm
 kgf=kgf/mm×Fmm
 (kgf=N×0.101972)



Order

Catalog No.

X—SWF 10—30



Days to Ship

Quotation



Price

Quotation

Product guide P.806