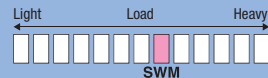
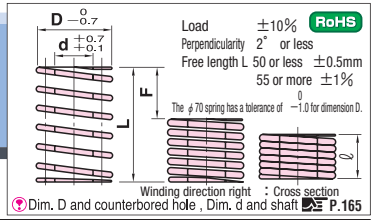


COIL SPRINGS

MEDIUM LOAD SWM



Printed in Red



The volume discount rate is also applicable to alteration cost.
 All price & lead time are to be quoted.

D	d	L	Spring constant N/(mm/kg/mm)	Solid height mm	F=LX25.6% Fmm	F=LX28.8% Fmm	F=LX32% Fmm	Catalog No.	U/Price	
6	3	15	20.4 (2.08)	9.8	3.8	4.3	4.8	SWM 6-15	98	
		20	15.3 (1.56)	13.1	5.1	5.8	6.4			8.0
		25	12.3 (1.25)	16.4	6.4	7.2	8.0			10.0
		30	10.2 (1.04)	19.6	7.7	8.6	9.6			12.0
		35	8.8 (0.89)	22.9	9.0	10.1	11.2			14.0
		40	7.7 (0.78)	26.2	10.2	11.5	12.8			16.0
		45	6.8 (0.69)	29.4	11.5	13.0	14.4			18.0
		50	6.1 (0.63)	32.7	12.8	14.4	16.0			20.0
		55	5.6 (0.57)	36.0	14.1	15.8	17.6			22.0
		60	5.1 (0.52)	39.2	15.4	17.3	19.2			24.0
8	4	10	42.9 (4.37)	6.6	2.6	2.9	3.2	SWM 8-10	137	
		15	28.6 (2.91)	9.4	3.8	4.3	4.8			6.0
		20	21.5 (2.18)	12.5	5.1	5.8	6.4			8.0
		25	17.2 (1.75)	15.7	6.4	7.2	8.0			10.0
		30	14.3 (1.46)	18.8	7.7	8.6	9.6			12.0
		35	12.2 (1.25)	21.9	9.0	10.1	11.2			14.0
		40	10.7 (1.09)	25.0	10.2	11.5	12.8			16.0
		45	9.5 (0.97)	28.2	11.5	13.0	14.4			18.0
		50	8.6 (0.87)	31.3	12.8	14.4	16.0			20.0
		55	7.8 (0.79)	34.4	14.1	15.8	17.6			22.0
10	5	10	61.3 (6.25)	6.6	2.6	2.9	3.2	SWM 10-10	196	
		15	40.9 (4.17)	9.8	3.8	4.3	4.8			6.0
		20	30.6 (3.13)	12.5	5.1	5.8	6.4			8.0
		25	24.5 (2.50)	15.7	6.4	7.2	8.0			10.0
		30	20.4 (2.08)	18.8	7.7	8.6	9.6			12.0
		35	17.5 (1.79)	21.9	9.0	10.1	11.2			14.0
		40	15.3 (1.56)	25.0	10.2	11.5	12.8			16.0
		45	13.6 (1.39)	28.2	11.5	13.0	14.4			18.0
		50	12.3 (1.25)	31.3	12.8	14.4	16.0			20.0
		55	11.1 (1.14)	34.4	14.1	15.8	17.6			22.0
12	6	15	59.2 (6.04)	9.8	3.8	4.3	4.8	SWM 12-15	284	
		20	44.4 (4.53)	12.5	5.1	5.8	6.4			8.0
		25	35.5 (3.63)	15.7	6.4	7.2	8.0			10.0
		30	29.6 (3.02)	18.8	7.7	8.6	9.6			12.0
		35	25.4 (2.59)	21.9	9.0	10.1	11.2			14.0
		40	22.2 (2.27)	25.0	10.2	11.5	12.8			16.0
		45	19.7 (2.01)	28.2	11.5	13.0	14.4			18.0
		50	17.8 (1.81)	31.3	12.8	14.4	16.0			20.0
		55	16.2 (1.65)	34.4	14.1	15.8	17.6			22.0
		60	14.8 (1.51)	37.6	15.4	17.3	19.2			24.0
14	7	20	59.8 (6.09)	13.1	5.1	5.8	6.4	SWM 14-20	383	
		25	47.9 (4.88)	15.7	6.4	7.2	8.0			10.0
		30	39.9 (4.08)	18.8	7.7	8.6	9.6			12.0
		35	34.2 (3.48)	21.9	9.0	10.1	11.2			14.0
		40	29.9 (3.05)	25.0	10.2	11.5	12.8			16.0
		45	26.6 (2.71)	28.2	11.5	13.0	14.4			18.0
		50	23.9 (2.44)	31.3	12.8	14.4	16.0			20.0
		55	21.8 (2.22)	34.4	14.1	15.8	17.6			22.0
		60	19.9 (2.03)	37.6	15.4	17.3	19.2			24.0
		65	18.4 (1.88)	40.7	16.6	18.7	20.8			26.0

D	d	L	Spring constant N/(mm/kg/mm)	Solid height mm	F=LX25.6% Fmm	F=LX28.8% Fmm	F=LX32% Fmm	Catalog No.	U/Price	
16	8	20	78.1 (7.97)	13.1	5.1	5.8	6.4	SWM 16-20	500	
		25	62.5 (6.38)	15.7	6.4	7.2	8.0			10.0
		30	52.1 (5.31)	18.8	7.7	8.6	9.6			12.0
		35	44.7 (4.55)	21.9	9.0	10.1	11.2			14.0
		40	39.1 (3.98)	25.0	10.2	11.5	12.8			16.0
		45	34.7 (3.54)	28.2	11.5	13.0	14.4			18.0
		50	31.3 (3.19)	31.3	12.8	14.4	16.0			20.0
		55	28.4 (2.90)	34.4	14.1	15.8	17.6			22.0
		60	26.0 (2.66)	37.6	15.4	17.3	19.2			24.0
		65	24.0 (2.45)	40.7	16.6	18.7	20.8			26.0
18	9	20	99.6 (10.2)	13.1	5.1	5.8	6.4	SWM 18-20	637	
		25	79.7 (8.13)	15.7	6.4	7.2	8.0			10.0
		30	66.4 (6.77)	18.8	7.7	8.6	9.6			12.0
		35	56.9 (5.80)	21.9	9.0	10.1	11.2			14.0
		40	49.8 (5.08)	25.0	10.2	11.5	12.8			16.0
		45	44.3 (4.51)	28.2	11.5	13.0	14.4			18.0
		50	39.8 (4.06)	31.3	12.8	14.4	16.0			20.0
		55	36.2 (3.69)	34.4	14.1	15.8	17.6			22.0
		60	33.2 (3.39)	37.6	15.4	17.3	19.2			24.0
		65	30.6 (3.13)	40.7	16.6	18.7	20.8			26.0
20	10	20	123 (12.5)	13.1	5.1	5.8	6.4	SWM 20-20	784	
		25	98.0 (10.0)	15.7	6.4	7.2	8.0			10.0
		30	81.7 (8.33)	18.8	7.7	8.6	9.6			12.0
		35	70.0 (7.14)	21.9	9.0	10.1	11.2			14.0
		40	61.3 (6.25)	25.0	10.2	11.5	12.8			16.0
		45	54.4 (5.55)	28.2	11.5	13.0	14.4			18.0
		50	49.0 (5.00)	31.3	12.8	14.4	16.0			20.0
		55	44.5 (4.55)	34.4	14.1	15.8	17.6			22.0
		60	40.8 (4.17)	37.6	15.4	17.3	19.2			24.0
		65	37.7 (3.85)	40.7	16.6	18.7	20.8			26.0
22	11	25	119 (12.1)	15.7	6.4	7.2	8.0	SWM 22-25	951	
		30	99.1 (10.1)	18.8	7.7	8.6	9.6			12.0
		35	84.9 (8.66)	21.9	9.0	10.1	11.2			14.0
		40	74.3 (7.58)	25.0	10.2	11.5	12.8			16.0
		45	66.1 (6.74)	28.2	11.5	13.0	14.4			18.0
		50	59.5 (6.06)	31.3	12.8	14.4	16.0			20.0
		55	54.0 (5.51)	34.4	14.1	15.8	17.6			22.0
		60	49.5 (5.05)	37.6	15.4	17.3	19.2			24.0
		65	45.7 (4.66)	40.7	16.6	18.7	20.8			26.0
		70	42.5 (4.33)	43.8	17.9	20.2	22.4			28.0

Order **Catalog No.**
SWM 20-80

Delivery **Printed in Red** **Printed in Black**
SGP Stock **3** Days

For area out of Singapore please refer to P.1.

Quantity	1~19	20~49	50~199	200~500
Rate	-	5%	10%	15%

D	d	L	Spring constant N/(mm/kg/mm)	Solid height mm	F=LX25.6% Fmm	F=LX28.8% Fmm	F=LX32% Fmm	Catalog No.	U/Price	
25	12.5	25	153 (15.6)	15.7	6.4	7.2	8.0	SWM 25-25	1225	
		30	128 (13.0)	18.8	7.7	8.6	9.6			12.0
		35	109 (11.2)	21.9	9.0	10.1	11.2			14.0
		40	95.7 (9.77)	25.0	10.2	11.5	12.8			16.0
		45	85.1 (8.68)	28.2	11.5	13.0	14.4			18.0
		50	76.6 (7.81)	31.3	12.8	14.4	16.0			20.0
		55	69.6 (7.10)	34.4	14.1	15.8	17.6			22.0
		60	63.8 (6.51)	37.6	15.4	17.3	19.2			24.0
		65	58.9 (6.01)	40.7	16.6	18.7	20.8			26.0
		70	54.7 (5.58)	43.8	17.9	20.2	22.4			28.0
27	13.5	25	179 (18.3)	15.7	6.4	7.2	8.0	SWM 27-25	1431	
		30	149 (15.2)	18.8	7.7	8.6	9.6			12.0
		35	128 (13.0)	21.9	9.0	10.1	11.2			14.0
		40	112 (11.4)	25.0	10.2	11.5	12.8			16.0
		45	99.4 (10.1)	28.2	11.5	13.0	14.4			18.0
		50	89.4 (9.13)	31.3	12.8	14.4	16.0			20.0
		55	81.3 (8.30)	34.4	14.1	15.8	17.6			22.0
		60	74.5 (7.60)	37.6	15.4	17.3	19.2			24.0
		65	68.8 (7.02)	40.7	16.6	18.7	20.8			26.0
		70	63.9 (6.52)	43.8	17.9	20.2	22.4			28.0
30	15	25	221 (22.5)	15.7	6.4	7.2	8.0	SWM 30-25	1765	
		30	184 (18.8)	18.8	7.7	8.6	9.6			12.0
		35	158 (16.1)	21.9	9.0	10.1	11.2			14.0
		40	138 (14.1)	25.0	10.2	11.5	12.8			16.0
		45	123 (12.5)	28.2	11.5	13.0	14.4			18.0
		50	110 (11.3)	31.3	12.8	14.4	16.0			20.0
		55	100 (10.2)	34.4	14.1	15.8	17.6			22.0
		60	91.9 (9.38)	37.6	15.4	17.3	19.2			24.0
		65	84.9 (8.65)	40.7	16.6	18.7	20.8			26.0
		70	78.8 (8.04)	43.8	17.9	20.2	22.4			28.0
35	17.5	25	276 (28.1)	15.7	6.4	7.2	8.0	SWM 35-40	2401	
		30	221 (22.5)	18.8	7.7	8.6	9.6			12.0
		35	184 (18.8)	21.9	9.0	10.1	11.2			14.0
		40	158 (16.1)	25.0	10.2	11.5	12.8			16.0
		45	142 (14.4)	28.2	11.5	13.0	14.4			18.0
		50	130 (13.0)	31.3	12.8	14.4	16.0			20.0
		55	120 (12.0)	34.4	14.1	15.8	17.6			22.0
		60	112 (11.2)	37.6	15.4	17.3	19.2			24.0
		65	105 (10.5)	40.7	16.6	18.7	20.8			26.0
		70	100 (10.0)	43.8	17.9	20.2	22.4			28.0

Alterations **(NT)** - Catalog No. **7** Days
NT - SWM 30-40

Alteration Code **Spec.** **Price**

No painting **NT** **Paint peeling** **Free of Charge**

SWOSC - V
 Load calculation method : N (load) = N/mm (spring constant) × F (deflection)
 (International units) N = N/mm × Fmm
 kgf = kgf/mm × Fmm
 (kgf = N × 0.101972)

The solid height values are reference only. There may be some variations depending on lots.
 Product Outline **P.163**
 Directions and precautions for coil springs **P.165**

D	d	L	Spring constant N/(mm/kg/mm)	Solid height mm	F=LX25.6% Fmm	F=LX28.8% Fmm	F=LX32% Fmm	Catalog No.	U/Price	
40	20	40	245 (25.0)	25.0	10.2	11.5	12.8	SWM 40-40	3138	
		45	218 (22.2)	29.4	11.5	13.0	14.4			16.0
		50	196 (20.0)	31.3	12.8	14.4	16.0			18.0
		55	178 (18.2)	36.0	14.1	15.8	17.6			20.0
		60	163 (16.7)	37.6	15.4	17.3	19.2			22.0
		65	151 (15.4)	42.5	16.6	18.7	20.8			24.0
		70	140 (14.3)	43.8	17.9	20.2	22.4			26.0
		75	131 (13.3)	49.1	19.2	21.6	24.0			28.0
		80	123 (12.5)	50.1	20.5	23.0	25.6			30.0
		90	109 (11.1)	56.3	23.0	25.9	28.8			32.0
50	25	50	306 (31.2)	31.3	12.8	14.4	16.0	SWM 50		