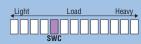
●Load calculation method: Load=Spring constant×Deflection

(SI unit) N=N/mm×Fmm

kgf=kgf/mm×Fmm $(kgf = N \times 0.101972)$





±10% RoHS d +0.7 Perpendicularity 2° or less Free length L 50 or less ±0.5mm 55 or more ±1% Winding direction: right (cross section view) All price & lead time are to be quoted.

© Clearance of D dim. and counterbore hole, and of d dim. and shaft

The quantity discount rate is also applicable to alteration cost.

D	d	L	Spring			F=L>	<55 %	F=L×60%	Catalog No.	Base unit price	D	d	L	Spring	F=L×509	6 F=L≻	< 55 %	F=L>	<60%	Catalog No.	Base unit price
			constant N/mm {kgf/mm}			Fmm		Fmm Load N {kgf}	Type D-L	1∼19 pieces	D	u		constant N/mm {kgf/mm}	Fmm Load N (kg			Fmm		Type D-L	1∼19 pieces
	Oper		count		0,000	500	_	300,000	"	hieces		Opei		count	1,000,00		,	300,		**	pieces
6			3.60 {0.37} 2.70 {0.28}			8.3		Out of range	SWC6-15 20					9.15 {0.93} 7.63 {0.78}		13.8		Out of 18.0	range	SWC16-25 30	
	١		5 2.16 (0.22) 12.5 27	13.8		15.0	25					6.54 (0.67)		19.3		21.0		35			
	3	30	1.80 {0.18}	15.0	0 {2.8} 16.5	16.5	{3.0}	18.0 32	30				-		20.0	22.0		24.0		40	
			1.54 {0.16}			19.3 22.0		21.0 (3.3)	35 40					5.08 (0.52)		24.8		27.0		45	
			1.35 {0.14} 3.81 {0.39}	7.5		8.3		Out of range						4.58 {0.47} 4.16 {0.42}	25.0	27.5 30.3		33.0	107	50 55	
			2.86 (0.29)			11.0		12.0	20		16	9.5	60	3.81 {0.39}	30.0	33.0	126 {12.8}	36.0	137 {14.0}	60	
			2.29 {0.23}			13.8		15.0	25					3.52 {0.36}	32.5	35.8		39.0	(14.0)	65	
			1.91 {0.19} 1.63 {0.17}			16.5 19.3		18.0	30 35					3.27 {0.33} 3.05 {0.31}	35	38.5 41.3		42.0 45.0		70 75	
			1.43 {0.15}			22.0		24.0	40				,	40.0	44.0		48.0		80		
8	4.6	45	1.27 {0.13}	22.5		24.8		27.0 34	45					2.54 (0.26)	45.0	49.5		54.0		90	
J	7.0	50	1.14 {0.12}			{3.2}								50.0	55.0		60.0		100		
			1.04 {0.11} 0.95 {0.10}			30.3		33.0	55 60				1.83 {0.19} 10.46 {1.07}	12.5	68.8		75.0 Out of	range	125 SWC18-25		
			0.88 {0.09}			35.8		39.0	65			30 35 40		8.72 (0.89)		16.5		18.0	rungo	30	
			0.82 {0.08}			38.5		42.0	70						17.5	19.3		21.0		35	
			0.76 {0.08} 0.72 {0.07}			41.3		45.0 48.0	75 80					6.54 {0.67} 5.81 {0.59}	20.0	22.0		24.0 27.0		40 45	
			6.10 {0.62}	7.5		8.3		Out of range		18				25.0	27.5		30.0		50		
		20	4.58 (0.47)	10.0	11.0 13.8 16.5 19.3	11.0	.0 .8	12.0 15.0	20				55	4.75 (0.48)	27.5	30.3	144	33.0	157	55	
			3.66 (0.37)						25		18	11		4.36 (0.44)	30.0 113	უ პპ.Ս	{14.7}	36.0	{16.0}	60	
			3.05 {0.31} 2.62 {0.27}				18.0 21.0 24.0 27.0 20.0 55	30 35					4.02 {0.41} 3.74 {0.38}	32.5	35.8 38.5	, ,	39.0 42.0		65 70		
			2.29 {0.23}					40					3.49 {0.36}		41.3		45.0		75		
		45	2.03 {0.21}	22.5	46	46 27.5 50		45				80	3.27 {0.33}	40.0	44.0		48.0		80		
10	5.8		1.83 {0.19}		{4.7}				50	ation				2.91 {0.30}		49.5		54.0		90	
			1.66 {0.17} 1.53 {0.16}			33.0			55 60					2.62 {0.27} 2.09 {0.21}	62.5	55.0 68.8		60.0 75.0		100 125	
			1.41 {0.14}			35.8		39.0	65					14.38 {1.47}		13.8		_	range	SWC20-25	uotatio
			1.31 {0.13}		38.5		42.0	70					11.99 (1.22)		16.5		18.0		30		
			5 1.22 {0.12} 37.5 41. 0 1.14 {0.12} 40.0 44.	41.3		45.0 48.0	75 80	not				10.27 {1.05} 8.99 {0.92}		19.3		21.0 24.0		35 40	비워		
			1.02 {0.10}			49.5		54.0	90	ď				7.99 (0.81)		24.8		27.0		45	ď
			5.48 (0.56)			11.0		Out of range					50	7.19 (0.73)	25.0	27.5		30.0		50	
			4.38 (0.45)		5.0 7.5 19.3 10.0 12.5 55 27.5 15.0 24.8 27.5 16.1 25.0 30.3 16.1 33.0 35.8 35.8 35.8			25 30	20			6.54 (0.67)		30.3	100	33.0	016	55 60			
			3.65 {0.37} 3.13 {0.32}				18.0 21.0	35		20	20 12.5		5.99 {0.61} 5.53 {0.56}				36.0 39.0		60 65		
			2.74 (0.28)			24.0 27.0	40					5.14 (0.52)		38.5		42.0	(22.0)	70			
			2.43 {0.25}				45					4.79 {0.49}		41.3		45.0		75			
12	7.4		2.19 {0.22} 1.99 {0.20}			30.0 66 33.0 (6.7)	50 55					4.49 {0.46} 4.00 {0.41}		44.0		48.0 54.0		80 90			
			1.83 {0.19}			36.0 39.0	60					3.60 (0.41)		55.0		60.0		100			
			1.68 {0.17}				65						62.5	68.8		75.0		125			
			1.56 (0.16)				42.0 45.0	70 75					2.40 {0.24} 19.61 {2.00}		82.5		90.0 Out of	rango	150 SWC22-25		
			1.37 {0.14}	0.15 37.5	44.0		48.0	80						15.0	16.5		18.0	range	30		
		90	1.22 {0.12}	45.0		49.5		54.0	90				35	14.01 {1.43}		19.3		21.0		35	
			8.17 (0.83)			13.8		Out of range							20.0	22.0		24.0		40	
			6.81 {0.69} 5.84 {0.60}			16.5 19.3 21.0	30 35						22.5 25.0	24.8		27.0 30.0		45 50			
			5.11 {0.52}			22.0		21.0 24.0 27.0	40				55		27.5	30.3		33.0		55	
		45	4.54 {0.46}	22.5		24.8			45		22	13.5	60	8.17 {0.83}	30.0 245	33.0	270	36.0	294	60	
		50 4.09 {0.42} 25.0 27.5 55 3.71 {0.38} 27.5 102 30.3 112 3	30.0	50			22 13.5	00	7.54 {0.77}					{30.0}	65						
14	8.5		102			33.0 123	55 60					7.00 {0.71} 6.54 {0.67}		38.5 41.3		42.0 45.0		70 75			
			3.14 {0.32}		65				80	6.13 (0.63)	40.0	44.0		48.0		80					
		70	2.92 {0.30}	35.0		38.5		42.0	70				90	5.45 (0.56)	45.0	49.5		54.0		90	
		75 2.72 (0.28) 37.5 41.3 45.0 80 2.55 (0.26) 40.0 44.0 48.0	75 80					4.90 (0.50) 3.92 (0.40)		55.0 68.8		60.0 75.0		100 125							
		90	2.27 {0.23}	45.5		44.0		54.0	90					3.92 (0.40)		82.5		90.0		150	
			2.04 (0.21)			55.0		60.0	100												

The maximum de	flection for	springs	shown	as '	Out of	range"	is	55%.
Do not use such :	spring at	a deflect	ion exce	eedi	na 55°	%		

			Spring	F=L>	<50%	F=L>	<55 %	F=L>	<60%	Catalog No.	Base unit price
D	d	L	constant N/mm kgf/mm	Fmm	Load N (kgf)	Fmm	Load N {kgf}	Fmm	Load N {kgf}	Type D-L	1~19
(Oper	ation	count	1,000	0,000	500	,000	300	000	Type D-L	pieces
		25	24.19 {2.47}	12.5		13.8			range	SWC25-25	
		30	20.16 {2.06}	15.0		16.5		18.0		30	
		35	17.28 {1.76}	17.5	ĺ	19.3		21.0		35	
		40	15.12 {1.54}	20.0		22.0		24.0		40	
		45	13.44 {1.37}	22.5		24.8		27.0		45	
			12.09 {1.23}	25.0	302	27.5		30.0		50	
			11.00 {1.12}	27.5		30.3		33.0		55	
		60	10.08 {1.03}	30.0		33.0		36.0		60	
25	16		9.30 (0.95)	32.5		35.8	333	39.0		65	
			8.64 (0.88)	35.0	{30.8}	38.5	{33.9}		{37.0}	70	
			8.06 (0.82)	37.5		41.3		45.0		75	
		80	7.56 (0.77)	40.0		44.0		48.0	range	80	
			6.72 {0.69}	45.0		49.5		54.0		90	
			6.05 (0.62)	50.0		55.0		60.0		100	
			4.84 (0.49)	62.5		68.8		75.0		125	
		150 175	4.03 {0.41}	75.0		82.5		90.0		150	
		200	3.46 {0.35}	87.5 100.0		96.3 110.0		105.0 120.0		175 200	
		25	28.11 {2.87}	12.5		13.8		Out of		SWC27-25	
		30	23.43 {2.39}	15.0		16.5	387 {39.4}	18.0	Tango	30	
			20.08 (2.05)	17.5		19.3		21.0	422 {43.0}	35	
			40 17.57 (1.79)	20.0		22.0		24.0		40	
		45	15.62 (1.59)	22.5		24.8		27.0		45	
		_		25.0	351 351 35.8} 35.8}	27.5		30.0		50	
		55	12.78 (1.30)	27.5		30.3		33.0		55	
		60	11.71 (1.19)	30.0		33.0		36.0		60	
27	17.5	65	10.81 {1.10}	32.5		35.8		39.0		65	קר
21	17.5	70	10.04 {1.02}	35.0		38.5		42.0		70	
		75		37.5		41.3		45.0		75	IJ≅L
			8.79 (0.90)	40.0		44.0		48.0		80	lāl
			7.81 {0.80}	45.0		49.5		54.0		90	
			7.03 (0.72)	50.0		55.0		60.0		100	
			5.62 (0.57)	62.5		68.8		75.0		125	
				75.0 87.5 100.0		82.5		90.0		150	
			3.51 {0.36}			96.3 110.0		105.0 120.0		175 200	
			31.38 (3.20)	12.5		13.8		_	range	SWC30-25	
			26.15 {2.67}	15.0		16.5		18.0	range	30	
			22.42 {2.29}	17.5		19.3		21.0		35	
			19.61 (2.00)	20.0		22.0		24.0		40	
			17.43 (1.78)	22.5		24.8		27.0		45	
		50	15.69 (1.60)	25.0		27.5		30.0		50	
			14.26 [1.45]	27.5		30.3		33.0		55	
		60	13.08 (1.33)	30.0		33.0		36.0		60	
30	20	65	12.07 (1.23)	32.5	392	35.8	431	39.0	471	65	
30	20	70	11.21 {1.14}	35.0		38.5	{44.0}	42.0	{48.0}	70	
		75	10.46 [1.07]	37.5		41.3		45.0		75	
			9.81 {1.00}	40.0)	44.0		48.0		80	
		90 8.72 (0.89) 45.0		49.5		54.0		90			
		100	7.85 (0.80)	50.0	4	55.0		60.0		100	
		125	6.28 (0.64)	62.5		68.8		75.0		125	
		150 5.23 (0.		75.0		82.5		90.0		150	
			4.48 (0.46)	87.5		96.3		105.0		175	
		200	3.92 {0.40}	100.0		110.0		120.0		200	



Catalog No. SWC 10-30



• Printed in Red • Printed in Blue SGP Stock 3 Days

To For area out of Singapore, please refer to P.i.

Quantity discount rate											
Quantity	1~19	20~49	50~199	200~500							
Rate	_	5%	10%	15%							

