

t	Allowable Load Difference (at 75% Deflection)
0.3~1.1	+15% -7.5%

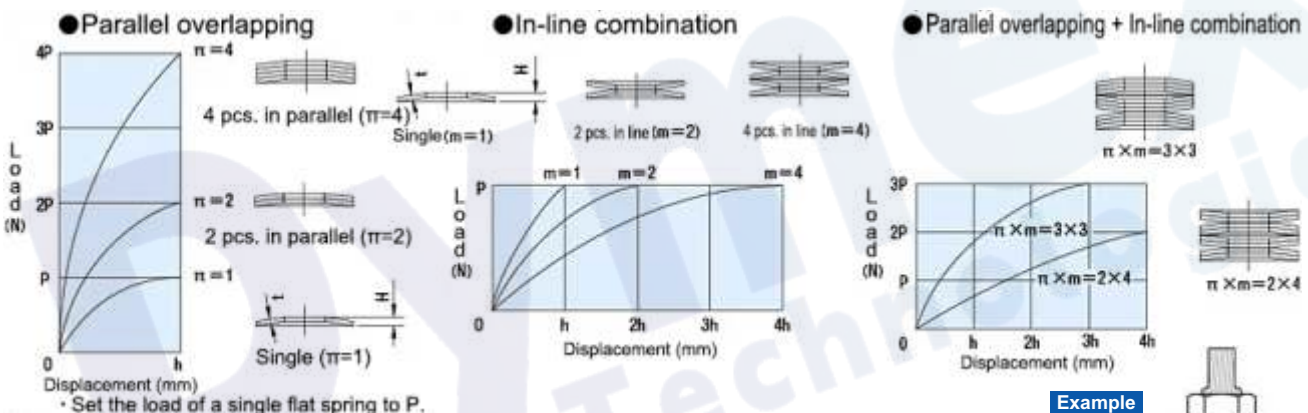
Type	M Material	S Surface Treatment	H Hardness
DE-SRBN	50CrVA	Phosphating Treatment	42 to 52HRC
DE-SSRBN	SUS304	-	37 to 46HRC

- Material Table
- M Material: 50CrVA
- S Surface Treatment: Phosphating

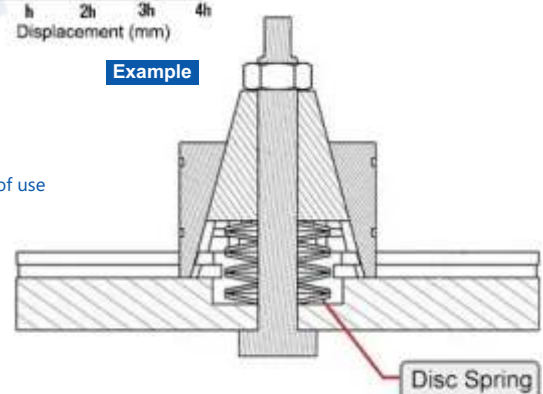
① Type	Part Number		Tolerance (D) mm	Inner Diameter (d) mm	Tolerance (D) mm	Plate Thickness (t) mm	Free Height (H0) mm	Tolerance (H0) mm	Maximum Deformation (h) mm	Load (at 75% displacement) N	
	② Outer Diameter (D) mm	③ Load Shape									
DE-SRBN (50CrVA) DE-SSRBN (SUS304)	6	B	0 -0.12	3.2	+0.12 0	0.3	0.45	+0.1 -0.05	0.15	119 (110)	
	8	A	0 to 0.15	4.2	+0.15 0	0.4	0.55		0.25	119	
		B					0.6		0.2	210	
	10	A	0 -0.18	5.2	+0.15 0	0.5	0.7		0.3	213	
		B					0.75		0.25	323	
	12.5	A	0 -0.18	6.2	+0.15 0	0.7	1		0.35	294	
		B					0.9		0.3	657	
	14	A	0 -0.18	7.2	+0.15 0	0.8	1.1		0.4	274	
		B					1.05		0.3	813	
	16	A	0 -0.18	8.2	+0.15 0	0.9	1.25		0.45	411	
		B					1.2		0.35	1029	
	18	A	0 -0.18	9.2	+0.15 0	1	1.4		0.5	568	
		B					1.35		0.4	1274	
	20	A	0 -0.18	10.2	+0.15 0	1.1	1.55		0.55	745	
		B					1.45		0.45	1520	
	22.5	A	0 -0.18	11.2	+0.15 0	0.8	1.75		0.65	710	
		B					1.75		0.5	1950	
	25	A	0 -0.18	12.2	+0.15 0	0.9	1.6		+0.10 -0.05	0.7	868
		B					2.05		+0.15 -0.08	0.55	2910
	28	A	0 -0.25	14.2	+0.18 0	1	1.8		+0.10 -0.05	0.8	1110
		B					2.45		+0.15 -0.08	0.65	2850
	31.5	A	0 -0.25	16.3	+0.21 0	1.25	2.25		+0.15 -0.08	0.9	1920
		B					2.8		+0.10 -0.05	0.7	3900
	35.5	A	0 -0.25	18.3	+0.21 0	1.25	2.65		+0.15 -0.08	1	1700
		B					3.15		+0.20 -0.10	0.8	5190
	40	A	0 -0.25	20.4	+0.21 0	2.25	3.05		+0.15 -0.08	1.15	2620
		B					3.5		+0.20 -0.10	0.9	6540
	45	A	0 -0.25	22.4	+0.21 0	1.75	3.5		+0.20 -0.10	1.3	3660
		B					3.4		+0.15 -0.08	1	7720
	50	A	0 -0.30	25.4	+0.21 0	2	3.4		+0.15 -0.08	1.4	4756
		B					4.1		+0.20 -0.10	1.1	11964
	56	A	0 -0.30	28.5	+0.21 0	3	3.6		+0.15 -0.08	1.6	4438(4093)
B		4.3					+0.20 -0.10	1.4	15025(13858)		
63	A	0 -0.30	31	+0.25 0	2.5	4.25	+0.30 -0.15	2	6725(6203)		
	B					4.9	+0.20 -0.10	1.6	20535(18940)		
71	A	0 -0.30	36	+0.25 0	2.5	4.5	+0.30 -0.15	2.3	10518(9701)		
	B					5.6	+0.20 -0.10	1.7	33559(30953)		
80	A	0 -0.35	41	+0.30 0	3	5.3	+0.30 -0.15	2.5	14161(13061)		
	B					6.7	+0.20 -0.10	2	31354(28919)		
90	A	0 -0.35	46	+0.30 0	3.5	6	+0.20 -0.10	2.8	13070		
	B					7	+0.20 -0.10	2.2	48022		
100	A	0 -0.40	51	+0.30 0	5	6.3	+0.20 -0.10	3.5	29908		
	B					8.2	+0.20 -0.10	2.6	85926		
125	A	0 -0.40	64	+0.30 0	5	8.5	+0.20 -0.10	2.6	85926		
	B					8(7.5)	±0.30	2.6	85926		

- The plate thickness (t) in the specification table is the nominal value; the value in parentheses is the actual plate thickness.
- Please refer to the value in parentheses for the load of DE-SSRBN. kgf=N × 0.101972

## Usage Method



- When used in combination, a guide road is required to prevent the spring from falling apart.
- only flat springs with the same dimension and same load can be combined
- please note that the load characteristics in the table will change with the operating environment and conditions of use



Please order after selecting part number and parameters according to the selection steps ①~③

① Type ② Outer Diameter (D) ③ Load Shape

ORDERING GUIDE



Part Number  
DE-SRBN12.5B

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