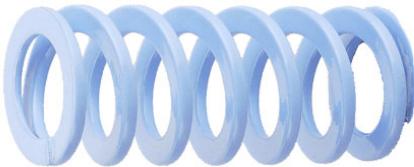


Super High Deflection Die Spring-Sky blue

Material	Color	Code					
Equivalent to SWOSC-V	sky blue	SIMU					
Content	Error						
Load	±10%						
Shape angle	below 3°						
Free length	Tolerance	Cycle life: 1 million times (F=Lx60%) 0.3 million times (F=Lx65%)					
15~50	±0.5						
55~300	±1.5%						
Code No.			Inner Dia. (mm)	Spring rate N/mm(Kgf/mm)	Soild height (mm)	F=Lx60%	
Code	Outer Dia. (mm)	Free length (mm)				Max compression F(mm)	Load (kgf)
SIMU	10.5	15	6	7.63(0.78)	4.5	9	68.6 (7.0)
		20		5.72(0.58)	6	12	
		25		4.58(0.47)	7.5	15	
		30		3.81(0.39)	9	18	
		35		3.27(0.33)	10.5	21	
		40		2.86(0.29)	12	24	
		45		2.54(0.23)	13.5	27	
		50		2.29(0.23)	15	30	
		55		2.08(0.21)	16.5	33	
		60		1.91(0.19)	18	36	
		65		1.76(0.18)	19.5	39	
		70		1.63(0.17)	21	42	
		75		1.53(0.16)	22.5	45	
80	1.43(0.15)	24	48				
SIMU	12.5	15	7	8.72(0.89)	4.5	9	78.5 (8.0)
		20		6.54(0.67)	6	12	
		25		5.23(0.53)	7.5	15	
		30		4.36(0.44)	9	18	
		35		3.74(0.38)	10.5	21	
		40		3.27(0.33)	12	24	
		45		2.91(0.30)	13.5	27	
		50		2.62(0.27)	15	30	
		55		2.38(0.24)	16.5	33	
		60		2.18(0.22)	18	36	
		65		2.01(0.21)	19.5	39	
		70		1.87(0.19)	21	42	
		75		1.74(0.18)	22.5	45	
		80		1.63(0.17)	24	48	
		90		1.45(0.15)	27	54	
100	1.31(0.13)	30	60				

Code No.			Inner Dia. (mm)	Spring rate N/mm(Kgf/mm)	Soild height (mm)	F=Lx60%	
Code	Outer Dia. (mm)	Free length (mm)				Max compression F(mm)	Load (kgf)
SIMU	14.5	15	8.5	10.90(1.11)	4.5	9	98.1 (10.0)
		20		8.17(0.83)	6	12	
		25		6.54(0.67)	7.5	15	
		30		5.45(0.56)	9	18	
		35		4.67(0.48)	10.5	21	
		40		4.09(0.42)	12	24	
		45		3.63(0.37)	13.5	27	
		50		3.27(0.33)	15	30	
		55		2.97(0.30)	16.5	33	
		60		2.72(0.28)	18	36	
		65		2.51(0.26)	19.5	39	
		70		2.33(0.24)	21	42	
		75		2.18(0.22)	22.5	45	
		80		2.04(0.21)	24	48	
		90		1.82(0.19)	27	54	
		100		1.63(0.17)	30	60	
		125		1.31(0.13)	37.5	75	
150	1.09(0.11)	45	90				
SIMU	17	20	10.5	12.26(1.25)	6	12	147.1 (15.0)
		25		9.81(1.00)	7.5	15	
		30		8.17(0.83)	9	18	
		35		7.00(0.71)	10.5	21	
		40		6.13(0.63)	12	24	
		45		5.45(0.56)	13.5	27	
		50		4.90(0.50)	15	30	
		55		4.46(0.45)	16.5	33	
		60		4.09(0.42)	18	36	
		65		3.77(0.38)	19.5	39	
		70		3.50(0.36)	21	42	
		75		3.27(0.33)	22.5	45	
		80		3.06(0.31)	24	48	
		90		2.72(0.28)	27	54	
		100		2.45(0.25)	30	60	
		125		1.96(0.20)	37.5	75	
		150		1.63(0.17)	45	90	
175	1.40(0.14)	52.5	105				
SIMU	21	25	13.5	15.04 (1.53)	7.5	15	255.6 (23.0)
		30		12.53 (1.28)	9	18	
		35		10.74 (1.10)	10.5	21	
		40		9.40 (0.96)	12	24	
		45		8.35 (0.85)	13.5	27	
		50		7.52 (0.77)	15	30	
		55		6.83 (0.70)	16.5	33	
		60		6.27 (0.64)	18	36	
		65		5.78 (0.59)	19.5	39	
		70		5.37 (0.55)	21	42	
		75		5.01 (0.51)	22.5	45	
		80		4.70 (0.48)	24	48	
		90		4.18 (0.43)	27	54	
		100		3.76 (0.38)	30	60	
		110		3.42 (0.35)	33	66	
		120		3.13 (0.32)	36	72	
		125		3.01 (0.31)	37.5	75	
		130		2.89 (0.29)	39	78	
		140		2.69 (0.27)	42	84	
		150		2.51 (0.26)	45	90	
175	2.15 (0.22)	52.5	105				
200	1.88 (0.19)	60	120				

Code No.			Inner Dia. (mm)	Spring rate N/mm(Kgf/mm)	Soild height (mm)	F=Lx60%	
Code	Outer Dia. (mm)	Free length (mm)				Max compression F(mm)	Load (kgf)
SIMU	26	30	16.5	16.33 (1.67)	9	18	294.2 (30.04)
		35		14.00 (1.43)	10.5	21	
		40		12.25 (1.25)	12	24	
		45		10.89 (1.11)	13.5	27	
		50		9.80 (1.00)	15	30	
		55		8.91 (0.91)	16.5	33	
		60		8.17 (0.83)	18	36	
		65		7.54 (0.77)	19.5	39	
		70		7.00 (0.71)	21	42	
		75		6.53 (0.67)	22.5	45	
		80		6.13 (0.63)	24	48	
		90		5.44 (0.56)	27	54	
		100		4.90 (0.50)	30	60	
		110		4.45 (0.45)	33	66	
		120		4.08 (0.42)	36	72	
		125		3.92 (0.40)	37.5	75	
		130		3.77 (0.38)	39	78	
		140		3.50 (0.36)	42	84	
		150		3.27 (0.33)	45	90	
		175		2.80 (0.29)	52.5	105	
200	2.45 (0.25)	60	120				
225	2.18 (0.22)	67.5	135				
250	1.96 (0.20)	75	150				
SIMU	31	35	21	17.75 (1.81)	10.5	21	372.7 (38.0)
		40		15.53 (1.58)	12	24	
		45		13.80 (1.41)	13.5	27	
		50		12.42 (1.27)	15	30	
		55		12.29 (1.15)	16.5	33	
		60		10.35 (1.06)	18	36	
		65		9.56 (0.97)	19.5	39	
		70		8.87 (0.90)	21	42	
		75		8.28 (0.84)	22.5	45	
		80		7.76 (0.79)	24	48	
		90		6.90 (0.70)	27	54	
		100		6.21 (0.63)	30	60	
		110		5.65 (0.58)	33	66	
		120		5.18 (0.53)	36	72	
		125		4.97 (0.51)	37.5	75	
		130		4.78 (0.49)	39	78	
		140		4.44 (0.45)	42	84	
		150		4.14 (0.42)	45	90	
		160		3.88 (0.40)	48	96	
		170		3.65 (0.37)	51	102	
175	3.55 (0.36)	52.5	105				
180	3.45 (0.35)	54	108				
190	3.27 (0.33)	57	114				
200	3.11 (0.32)	60	120				
250	2.48 (0.25)	75	150				
300	2.07 (0.21)	90	180				

Code No.			Inner Dia. (mm)	Spring rate N/mm(Kgf/mm)	Soild height (mm)	F=Lx60%	
Code	Outer Dia. (mm)	Free length (mm)				Max compression F(mm)	Load (kgf)
SIMU	37	40	26	19.20(1.96)	12	24	460.9 (47.0)
		45		17.07(1.74)	13.5	27	
		50		15.36(1.57)	15	30	
		55		13.97(1.42)	16.5	33	
		60		12.80(1.31)	18	36	
		65		11.82(1.21)	19.5	39	
		70		10.97(1.12)	21	42	
		75		10.24(1.04)	22.5	45	
		80		9.60(0.98)	24	48	
		90		8.54(0.87)	27	54	
		100		7.68(0.78)	30	60	
		110		6.98(0.71)	33	66	
		120		6.40(0.65)	36	72	
		125		5.91(0.60)	39	78	
		130		5.49(0.56)	42	84	
		140		5.12(0.52)	45	90	
		150		4.80(0.49)	48	96	
		160		4.52(0.46)	51	102	
		170		4.27(0.44)	54	108	
		175		4.04(0.41)	57	114	
		180		3.84(0.39)	60	120	
190	3.41(0.35)	67.5	135				
200	3.07(0.31)	75	150				
250	2.79(0.28)	82.5	165				
300	2.56(0.26)	90	180				
SIMU	43	50	31	19.61(2.00)	15	30	588.4 (60.0)
		60		16.34(1.67)	18	36	
		70		14.01(1.43)	21	42	
		80		12.26(1.25)	24	48	
		90		10.90(1.11)	27	54	
		100		9.81(1.00)	30	60	
		110		8.92(0.91)	33	66	
		120		8.17(0.83)	36	72	
		130		7.54(0.77)	39	78	
		140		7.00(0.71)	42	84	
		150		6.54(0.67)	45	90	
		160		6.13(0.63)	48	96	
		170		5.77(0.59)	51	102	
		180		5.45(0.56)	54	108	
		190		5.16(0.53)	57	114	
		200		4.90(0.50)	60	120	
		225		4.36(0.44)	67.5	135	
250	3.92(0.40)	75	150				
275	3.57(0.36)	82.5	165				
300	3.27(0.33)	90	180				