

## COIL SPRINGS ACC. TO ISO 10243

## COIL SPRINGS ACC. TO JIS-STANDARDS



Rectangular Wire	ISO 10243								
	ISWLG	ISWG	ISWB	ISWR	ISWY	ISWS			
	Extra Light	Light	Medium	Strong	Extra Strong	Ultra Strong			
Max. Defl. 50% L0		Max. Defl. 40% L0		Max. Defl. 37.5% L0		Max. Defl. 30% L0			
DH	Dd	L0	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%		
mm	mm	mm	N/mm	N/mm	N/mm	N/mm	N/mm		
10	5	25	8.5	11	16	23	36.8	167	
		32	6.5	8.5	13	17.5	27.9	130	
		38	5.5	6.8	11.9	14.8	23.7	105	
		44	4.8	6	10.3	13	19.2	86	
		51	4.2	5	8.9	11.2	16.5	79	
		64	3.3	4.1	7.5	9.2	13.2	62	
		76	2.7	3.6	6.2	7.5	10.9	51	
		115	-	-	-	-	-	-	-
		152	-	-	-	-	-	-	-
		305	0.7	0.9	1.6	1.9	2.6	11.5	-
12.5	6.3	25	16	21	30	42.1	58.5	288	
		32	12.2	16.4	24.8	33.2	43.9	216	
		38	10.3	13.6	21.4	29.3	36	176	
		44	8.7	12.1	18	24.6	30.3	149	
		51	7.5	10.3	15.5	19.6	26.2	128	
		64	5.8	7.6	12.1	15	21.2	100	
		76	4.7	6.3	10.2	13.2	17.1	84	
		89	4.1	5.4	8.4	11.4	14.5	71	
		102	3.6	4.1	6.3	8.4	12.7	61	
		305	1.3	1.6	2.4	3.2	4.3	22	-
16	8	25	20.2	29	49.4	75.7	118	-	
		32	16	22.9	38.5	60.2	89	449	
		38	12.3	19.3	33.9	50.8	72.1	363	
		44	10.6	17.1	30	42.8	60.9	309	
		51	8.9	14	26.4	37.1	52.3	256	
		64	7	10.7	20.5	30.3	41.2	203	
		76	5.8	9	17.8	25.7	34.1	166	
		89	4.8	7.3	15.2	21.7	29.5	139	
		102	4.1	6.8	13.5	18.9	25.6	114	
		305	1.5	2.3	4.3	6.3	8.4	38.8	-
20	10	25	29.4	55.8	98	216	293	-	
		32	22.6	45	72.6	168	224	-	
		38	18.6	36	56	129	177	-	
		44	15.7	30	47.5	112	149	452	
		51	13.7	24.5	41.7	94	128	378	
		64	11.3	19.2	32.3	72.1	99	301	
		76	9.8	16	25.1	59.7	81.7	247	
		89	8.3	14	22	50.5	69.5	208	
		102	7.4	12	19.8	44.2	60.6	188	
		305	2.5	4	6.1	14	20	60	-
25	12.5	25	53.9	105	157	375	459	-	
		32	42.2	80.3	118	297	374	-	
		38	35.8	62	93	219	300	-	
		44	31.4	52.9	80.8	187	244	1158	
		51	27	44	68.6	156	208	933	
		64	21.6	35.2	53	123	161	644	
		76	18.1	28	43.2	99	131	556	
		89	15.2	24	38.2	84	111	462	
		102	13.2	21.1	33	73	96.3	390	
		305	4.4	7	10.2	22.9	30.9	136	-
32	16	25	43.1	98	185	388	480	-	
		32	37.3	79.5	158	324	390	1300	
		38	32.4	67	134	272	336	1150	
		44	25.5	53	99	212	269	1077	
		51	21.6	44	80.5	172	219	874	
		64	18.1	37.2	69.1	141	180	721	
		76	15.7	32	58.8	122	155	620	
		89	14.2	29	51.5	107	140	560	
		102	12.7	25	44.8	93	124	496	
		305	4.4	7	10.2	22.9	30.9	136	-
40	20	25	48.1	92	182	350	428	-	
		32	39.2	73	140	269	328	1128	
		38	33.3	63	108	219	272	1017	
		44	28.4	51	90.7	190	231	880	
		51	24.5	45	81	163	201	762	
		64	22.1	39.6	71.8	142	175	679	
		76	19.6	36	62.7	128	155	622	
		89	17.7	32	57.5	115	140	560	
		102	16.2	28	51.6	105	128	509	
		305	5.3	10.3	18.3	38	49	196	-
50	25	25	86.3	156	209	413	506	-	
		32	70.6	125	168	339	413	1181	
		38	59.8	109	140	288	354	1017	
		44	52	94	119	245	305	915	
		51	46.1	81	106	215	266	813	
		64	42.2	71	97	192	236	740	
		76	38.2	66.5	87	168	201	667	
		89	34.3	60	80	154	185	606	
		102	29.4	52	69.5	134	161	534	
		305	17.2	28.5	38.6	73	127	388	-
63	38	25	57.8	189	320	618	752	-	
		32	51.4	158	260	515	618	1517	
		38	44.4	131	221	438	524	1295	
		44	38	116	187	370	450	1070	
		51	33.2	103	168	333	406	979	
		64	27.4	84.3	136	269	328	875	
		76	24	71.5	114	226	281	770	
		89	21	61.7	100	198	246	700	
		102	18.2	53.2	89.2	175	215	630	
		305	13.6	38.2	64.7	128	161	423	-

Round Wire	ISO 10243					
	ISWTG	ISWTB	ISWTR	ISWTY	ISWL	
	Light	Medium	Strong	Extra Strong		
Max. Defl. 40% L0		Max. Defl. 37.5% L0		Max. Defl. 32% L0		
DH	Dd	L0	R ± 10%	R ± 10%	R ± 10%	
mm	mm	mm	N/mm	N/mm	N/mm	
6.3	4.4	16	1.6	4.7	12.7	33.0
		25	1.0	2.9	7.7	19.8
		38	0.6	1.8	4.9	11.9
		51	0.5	1.5	3.7	9.5
		305	0.3	0.9	1.5	-
8.3	5.9	16	2.5	5.4	12.5	30.9
		25	1.6	3.6	6.9	23.0
		38	1.1	2.4	5.1	13.2
		51	0.8	1.9	4.0	9.3
		305	0.6	1.5	2.7	-
10	5	25	4.4	12.3	20.7	-
		32	3.4	9.5	16.1	-
		38	2.8	7.8	13.0	-
		44	2.4	6.5	10.9	-
		51	2.1	5.6	9.6	-
12.5	6.3	25	4.4	12.3	20.7	-
		32	3.4	9.5	16.1	-
		38	2.8	7.8	13.0	-
		44	2.4	6.5	10.9	-
		51	2.1	5.6	9.6	-
16	8	25	17.9	31.9	81.6	-
		32	13.5	24.0	61.3	-
		38	10.5	19.4	49.9	-
		44	8.8	16.1	40.8	-
		51	7.6	13.8	35.6	-
20	10	25	17.9	31.9	81.6	-
		32	13.5	24.0	61.3	-
		38	10.5	19.4	49.9	-
		44	8.8	16.1	40.8	-
		51	7.6	13.8	35.6	-

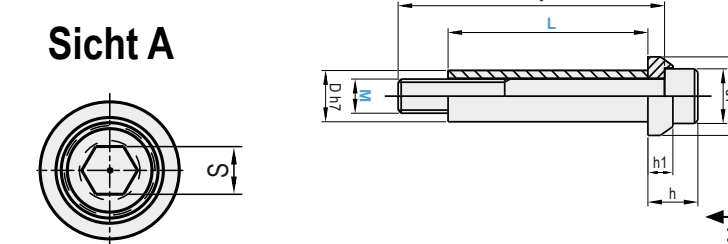
### Spacer/Spring Unit



d	d1	h	h1	ℓ	S	D	Catalog-No.		L
							Type	M	
15	10	10	5.5	35	5	10	M6		20
				25					
				30					
				35					
				40					
				45					
				50					
				55					
				60					
				65					
19	13	13	6.5	45	6	12.5	M8		30
				35					
				40					
				45					
				50					
				55					
				60					
				65					
				70					
				75					
23	16	15	7.5	80	8	15	SVC	M10	55
				60					
				70					
				80					
				90					
				100					
				110					
				120					
				130					
				140					
27	18	18	9	100	10	17.5	M12		70
				80					
				90					
				100					
				110					
				120					
				130					
				140					
				150					
				160					
34	24	24	11	130	14	23	M16		80
				90					
				100					
				110					
				120					
				130					
				140					
				150					
				160					

Screw Tightening Torque for Steel 12.9 / [Nm]			
M6	M8	M12	M16
13	32	65	290

Order Example	
Catalog-No.	L
SVCM10	80
SVCM16	150



Further information about our ISO coil springs can be found here!

Product Name	Coil Springs - Round Wire		Coil Springs - Rectangular Wire			
	Coil Springs - Round Wire - Inner Diameter Standard Type	Coil Springs - Round Wire - Outer Diameter Standard Type	SWY	SWU	SWR	SWS
Catalog-No.	WY-WR-WF-WL-WT-WM-WH-WB	NWL-NWM-WP				

Coil Springs - Rectangular Wire									
SWC	SWF	SWL	SWM	SWH	SWB	SWG	SWZ	SWV	SWX

Type	Catalog-No.	Size		Full Length		Maximum Deflection	Load N(kgf)	
		Min.	Max.	Min.	Max.		Min.	Max.
Light	WY	Ø 3	Ø 16	5	70	75 % (10 million shots)	0.38	10.3
							(0.04)	(2.4)
	WR	Ø 3	Ø 27	5	90	60 % (10 million shots)	0.9	23.5
							(0.09)	(2.4)
	WF	Ø 3	Ø 27	5	90	45 % (10 million shots)	1.1	35.3
							(0.11)	(3.6)
	WL	Ø 2	Ø 27	5	100	40 % (10 million shots)	0.98	117.7
							(0.1)	(12.0)
	WT							