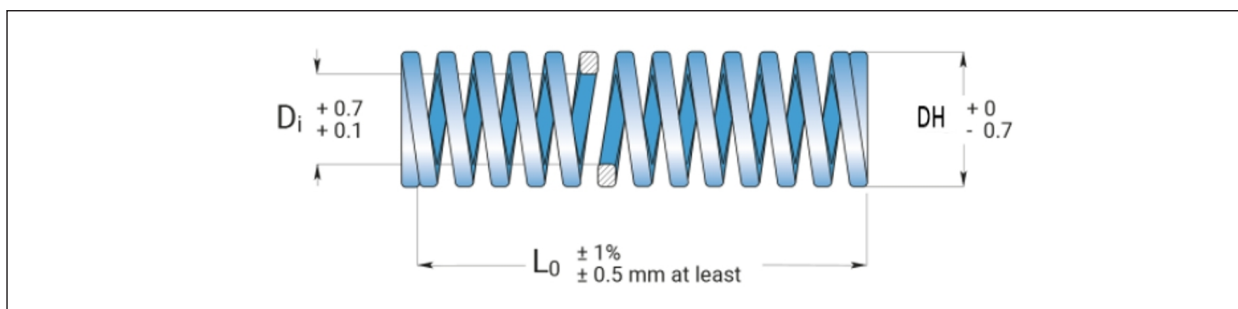
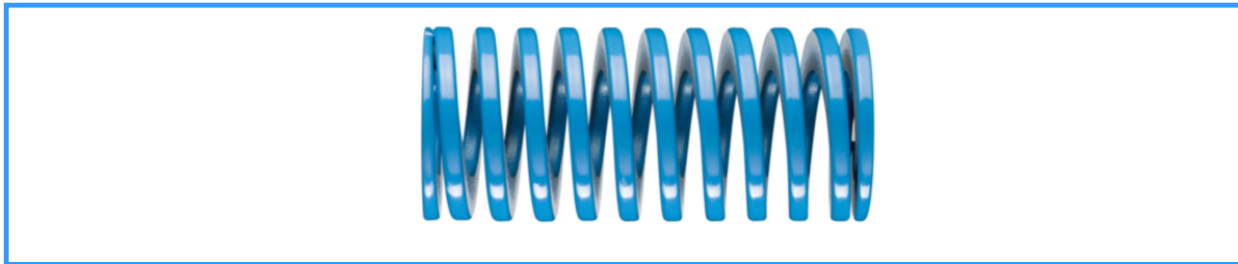


JIS (Japanese industrial standard)



Objednávacie číslo: COM – TL

Materiál:

Zliatinová oceľ s chrómom s vysokou pevnosťou v ťahu

Príklad objednania : COM – TL – DH x L0

Model 型号	Outside Diameter DH (mm)	Inside Diameter Di (mm)	Free length Lo (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TL 8 × 10	8	4	10	24.53	{ 2.50 }	3.2	78.5 { 8.0 }	3.6	88.3 { 9.0 }	4.0	98.1 { 10.0 }
15			15	16.35	{ 1.67 }	4.8		5.4		6.0	
20			20	12.26	{ 1.25 }	6.4		7.2		8.0	
25			25	9.81	{ 1.00 }	8.0		9.0		10.0	
30			30	8.18	{ 0.83 }	9.6		10.8		12.0	
35			35	7.01	{ 0.71 }	11.2		12.6		14.0	
40			40	6.13	{ 0.63 }	12.8		14.4		16.0	
45			45	5.45	{ 0.56 }	14.4		16.2		18.0	
50			50	4.91	{ 0.50 }	16.0		18.0		20.0	
55			55	4.46	{ 0.45 }	17.6		19.8		22.0	
60			60	4.09	{ 0.42 }	19.2		21.6		24.0	
65			65	3.77	{ 0.38 }	20.8		23.4		26.0	
70			70	3.50	{ 0.36 }	22.4		25.2		28.0	
75			75	3.27	{ 0.33 }	24.0		27.0		30.0	
80			80	3.07	{ 0.31 }	25.6		28.8		32.0	
TL 10 × 20			10	5	20	17.71		{ 1.81 }		6.4	
25	25	14.17			{ 1.44 }	8.0	9.0	10.0			
30	30	11.81			{ 1.20 }	9.6	10.8	12.0			
35	35	10.12			{ 1.03 }	11.2	12.6	14.0			
40	40	8.85			{ 0.90 }	12.8	14.4	16.0			
45	45	7.87			{ 0.80 }	14.4	16.2	18.0			
50	50	7.08			{ 0.72 }	16.0	18.0	20.0			
55	55	6.44			{ 0.66 }	17.6	19.8	22.0			
60	60	5.90			{ 0.60 }	19.2	21.6	24.0			
65	65	5.45			{ 0.56 }	20.8	23.4	26.0			
70	70	5.06			{ 0.52 }	22.4	25.2	28.0			
75	75	4.72			{ 0.48 }	24.0	27.0	30.0			
80	80	4.43			{ 0.45 }	25.6	28.8	32.0			
90	90	3.94			{ 0.40 }	28.8	32.4	36.0			

JIS (Japanese industrial standard)

Model 型号	Outside Diameter DH (mm)	Inside Diameter Di (mm)	Free length Lo (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TL 12 × 20	12	6	20	25.88	{ 2.64 }	6.4	166.7 { 17.0 }	7.2	186.3 { 19.0 }	8.0	206 { 21.0 }
25			25	20.70	{ 2.11 }	8.0		9.0		10.0	
30			30	17.25	{ 1.76 }	9.6		10.8		12.0	
35			35	14.79	{ 1.51 }	11.2		12.6		14.0	
40			40	12.94	{ 1.32 }	12.8		14.4		16.0	
45			45	11.50	{ 1.17 }	14.4		16.2		18.0	
50			50	10.35	{ 1.06 }	16.0		18.0		20.0	
55			55	9.41	{ 0.96 }	17.6		19.8		22.0	
60			60	8.63	{ 0.88 }	19.2		21.6		24.0	
65			65	7.96	{ 0.81 }	20.8		23.4		26.0	
70			70	7.39	{ 0.75 }	22.4		25.2		28.0	
75			75	6.90	{ 0.70 }	24.0		27.0		30.0	
80			80	6.47	{ 0.66 }	25.6		28.8		32.0	
90			90	5.75	{ 0.59 }	28.8		32.4		36.0	
TL 14 × 25	14	7	25	27.22	{ 2.78 }	8.0	216 { 22.0 }	9.0	245 { 25.0 }	10.0	275 { 28.0 }
30			30	22.69	{ 2.31 }	9.6		10.8		12.0	
35			35	19.44	{ 1.98 }	11.2		12.6		14.0	
40			40	17.01	{ 1.73 }	12.8		14.4		16.0	
45			45	15.12	{ 1.54 }	14.4		16.2		18.0	
50			50	13.61	{ 1.39 }	16.0		18.0		20.0	
55			55	12.37	{ 1.26 }	17.6		19.8		22.0	
60			60	11.34	{ 1.16 }	19.2		21.6		24.0	
65			65	10.47	{ 1.07 }	20.8		23.4		26.0	
70			70	9.72	{ 0.99 }	22.4		25.2		28.0	
75			75	9.07	{ 0.93 }	24.0		27.0		30.0	
80			80	8.51	{ 0.87 }	25.6		28.8		32.0	
90			90	7.56	{ 0.77 }	28.8		32.4		36.0	
100			100	6.81	{ 0.69 }	32.0		36.0		40.0	
TL 16 × 25	16	8	25	34.89	{ 3.56 }	8.0	275 { 28.0 }	9.0	314 { 32.0 }	10.0	343 { 35.0 }
30			30	29.07	{ 2.96 }	9.6		10.8		12.0	
35			35	24.92	{ 2.54 }	11.2		12.6		14.0	
40			40	21.81	{ 2.22 }	12.8		14.4		16.0	
45			45	19.38	{ 1.98 }	14.4		16.2		18.0	
50			50	17.44	{ 1.78 }	16.0		18.0		20.0	
55			55	15.86	{ 1.62 }	17.6		19.8		22.0	
60			60	14.54	{ 1.48 }	19.2		21.6		24.0	
65			65	13.42	{ 1.37 }	20.8		23.4		26.0	
70			70	12.46	{ 1.27 }	22.4		25.2		28.0	
75			75	11.63	{ 1.19 }	24.0		27.0		30.0	
80			80	10.90	{ 1.11 }	25.6		28.8		32.0	
90			90	9.69	{ 0.99 }	28.8		32.4		36.0	
100			100	8.72	{ 0.89 }	32.0		36.0		40.0	
125	125	6.98	{ 0.71 }	40.0	45.0	50.0					

JIS (Japanese industrial standard)

Model 型号	Outside Diameter DH (mm)	Inside Diameter Di (mm)	Free length Lo (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				N/mm	kgf/mm	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TL 18 × 25	18	9	25	42.44	4.33	8.0	333 { 34.0 }	9.0	382 { 39.0 }	10.0	422 { 43.0 }
30			30	35.37	3.61	9.6		10.8		12.0	
35			35	30.32	3.09	11.2		12.6		14.0	
40			40	26.53	2.71	12.8		14.4		16.0	
45			45	23.58	2.40	14.4		16.2		18.0	
50			50	21.22	2.16	16.0		18.0		20.0	
55			55	19.29	1.97	17.6		19.8		22.0	
60			60	17.69	1.80	19.2		21.6		24.0	
65			65	16.32	1.66	20.8		23.4		26.0	
70			70	15.16	1.55	22.4		25.2		28.0	
75			75	14.15	1.44	24.0		27.0		30.0	
80			80	13.26	1.35	25.6		28.8		32.0	
90			90	11.79	1.20	28.8		32.4		36.0	
100			100	10.61	1.08	32.0		36.0		40.0	
125	125	8.49	0.87	40.0	45.0	50.0					
TL 20 × 25	20	10	25	53.44	5.45	8.0	422 { 43.0 }	9.0	481 { 49.0 }	10.0	530 { 54.0 }
30			30	44.54	4.54	9.6		10.8		12.0	
35			35	38.17	3.89	11.2		12.6		14.0	
40			40	33.40	3.41	12.8		14.4		16.0	
45			45	29.69	3.03	14.4		16.2		18.0	
50			50	26.72	2.72	16.0		18.0		20.0	
55			55	24.29	2.48	17.6		19.8		22.0	
60			60	22.27	2.27	19.2		21.6		24.0	
65			65	20.56	2.10	20.8		23.4		26.0	
70			70	19.09	1.95	22.4		25.2		28.0	
75			75	17.81	1.82	24.0		27.0		30.0	
80			80	16.70	1.70	25.6		28.8		32.0	
90			90	14.85	1.51	28.8		32.4		36.0	
100			100	13.36	1.36	32.0		36.0		40.0	
125	125	10.69	1.09	40.0	45.0	50.0					
150	150	8.91	0.91	48.0	54.0	60.0					
TL 22 × 25	22	11	25	65.33	6.66	8.0	530 { 54.0 }	9.0	588 { 60.0 }	10.0	657 { 67.0 }
30			30	54.44	5.55	9.6		10.8		12.0	
35			35	46.67	4.76	11.2		12.6		14.0	
40			40	40.83	4.16	12.8		14.4		16.0	
45			45	36.30	3.70	14.4		16.2		18.0	
50			50	32.67	3.33	16.0		18.0		20.0	
55			55	29.70	3.03	17.6		19.8		22.0	
60			60	27.22	2.78	19.2		21.6		24.0	
65			65	25.13	2.56	20.8		23.4		26.0	
70			70	23.33	2.38	22.4		25.2		28.0	
75			75	21.78	2.22	24.0		27.0		30.0	
80			80	20.42	2.08	25.6		28.8		32.0	
90			90	18.15	1.85	28.8		32.4		36.0	
100			100	16.33	1.67	32.0		36.0		40.0	
125	125	13.07	1.33	40.0	45.0	50.0					
150	150	10.89	1.11	48.0	54.0	60.0					

JIS (Japanese industrial standard)

Model 型号	Outside Diameter DH (mm)	Inside Diameter Di (mm)	Free length Lo (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TL 25 × 25	25	12.5	25	82.78	{ 8.44 }	8.0	657 { 67.0 }	9.0	745 { 76.0 }	10.0	824 { 84.0 }
30			30	68.98	{ 7.03 }	9.6		10.8		12.0	
35			35	59.13	{ 6.03 }	11.2		12.6		14.0	
40			40	51.74	{ 5.28 }	12.8		14.4		16.0	
45			45	45.99	{ 4.69 }	14.4		16.2		18.0	
50			50	41.39	{ 4.22 }	16.0		18.0		20.0	
55			55	37.63	{ 3.84 }	17.6		19.8		22.0	
60			60	34.49	{ 3.52 }	19.2		21.6		24.0	
65			65	31.84	{ 3.25 }	20.8		23.4		26.0	
70			70	29.56	{ 3.01 }	22.4		25.2		28.0	
75			75	27.59	{ 2.81 }	24.0		27.0		30.0	
80			80	25.87	{ 2.64 }	25.6		28.8		32.0	
90			90	22.99	{ 2.34 }	28.8		32.4		36.0	
100			100	20.69	{ 2.11 }	32.0		36.0		40.0	
125			125	16.56	{ 1.69 }	40.0		45.0		50.0	
150			150	13.80	{ 1.41 }	48.0		54.0		60.0	
175			175	11.83	{ 1.21 }	56.0		63.0		70.0	
200	200	10.35	{ 1.06 }	64.0	72.0	80.0					
TL 27 × 25	27	13.5	25	98.11	{ 10.00 }	8.0	785 { 80.0 }	9.0	883 { 90.0 }	10.0	981 { 100.0 }
30			30	81.76	{ 8.34 }	9.6		10.8		12.0	
35			35	70.08	{ 7.15 }	11.2		12.6		14.0	
40			40	61.32	{ 6.25 }	12.8		14.4		16.0	
45			45	54.51	{ 5.56 }	14.4		16.2		18.0	
50			50	49.06	{ 5.00 }	16.0		18.0		20.0	
55			55	44.60	{ 4.55 }	17.6		19.8		22.0	
60			60	40.88	{ 4.17 }	19.2		21.6		24.0	
65			65	37.74	{ 3.85 }	20.8		23.4		26.0	
70			70	35.04	{ 3.57 }	22.4		25.2		28.0	
75			75	32.70	{ 3.33 }	24.0		27.0		30.0	
80			80	30.66	{ 3.13 }	25.6		28.8		32.0	
90			90	27.25	{ 2.78 }	28.8		32.4		36.0	
100			100	24.53	{ 2.50 }	32.0		36.0		40.0	
125			125	19.62	{ 2.00 }	40.0		45.0		50.0	
150			150	16.35	{ 1.67 }	48.0		54.0		60.0	
175			175	14.02	{ 1.43 }	56.0		63.0		70.0	
200	200	12.26	{ 1.25 }	64.0	72.0	80.0					

JIS (Japanese industrial standard)

Model 型号	Outside Diameter DH (mm)	Inside Diameter Di (mm)	Free length Lo (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				N/mm	kgf/mm	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TL 30 × 25	30	15	25	118.78	12.11	8.0	951 [97.0]	9.0	1,069 [109.0]	10.0	1,187 [121.0]
30			30	98.98	10.09	9.6		10.8			
35			35	84.84	8.65	11.2		12.6			
40			40	74.24	7.57	12.8		14.4			
45			45	65.99	6.73	14.4		16.2			
50			50	59.39	6.06	16.0		18.0			
55			55	53.99	5.51	17.6		19.8			
60			60	49.49	5.05	19.2		21.6			
65			65	45.68	4.66	20.8		23.4			
70			70	42.42	4.33	22.4		25.2			
75			75	39.59	4.04	24.0		27.0			
80			80	37.12	3.78	25.6		28.8			
90			90	32.99	3.36	28.8		32.4			
100			100	29.69	3.03	32.0		36.0			
125			125	23.76	2.42	40.0		45.0			
150			150	19.80	2.02	48.0		54.0			
175			175	16.97	1.73	56.0		63.0			
200	200	14.85	1.51	64.0	72.0						
TL 35 × 40	35	17.5	40	101.46	10.35	12.8	1,295 [132.1]	14.4	1,461 [149.0]	16.0	1,618 [165.0]
45			45	90.19	9.20	14.4		16.2			
50			50	81.17	8.28	16.0		18.0			
55			55	73.79	7.52	17.6		19.8			
60			60	67.64	6.90	19.2		21.6			
65			65	62.44	6.37	20.8		23.4			
70			70	57.98	5.91	22.4		25.2			
75			75	54.11	5.52	24.0		27.0			
80			80	50.73	5.17	25.6		28.8			
90			90	45.09	4.60	28.8		32.4			
100			100	40.58	4.14	32.0		36.0			
125			125	32.47	3.31	40.0		45.0			
150			150	27.06	2.76	48.0		54.0			
175	175	23.19	2.36	56.0	63.0						
200	200	20.29	2.07	64.0	72.0						
TL 40 × 40	40	20	40	132.15	13.48	12.8	1,697 [173.0]	14.4	1,903 [194.1]	16.0	2,120 [216.2]
45			45	117.47	11.98	14.4		16.2			
50			50	105.72	10.78	16.0		18.0			
55			55	96.11	9.80	17.6		19.8			
60			60	88.10	8.98	19.2		21.6			
65			65	81.32	8.29	20.8		23.4			
70			70	75.52	7.70	22.4		25.2			
75			75	70.48	7.19	24.0		27.0			
80			80	66.08	6.74	25.6		28.8			
90			90	58.73	5.99	28.8		32.4			
100			100	52.86	5.39	32.0		36.0			
125			125	42.29	4.31	40.0		45.0			
150			150	35.24	3.59	48.0		54.0			
175			175	30.21	3.08	56.0		63.0			
200			200	26.43	2.70	64.0		72.0			
225			225	23.49	2.40	72.0		81.0			
250			250	21.14	2.16	80.0		90.0			
275	275	19.22	1.96	88.0	99.0						
300	300	17.62	1.80	96.0	108.0						

JIS (Japanese industrial standard)

Model 型号	Outside Diameter DH (mm)	Inside Diameter Di (mm)	Free length Lo (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N (kgf)	Deflection 压缩量 (mm)	Load 负荷 N (kgf)	Deflection 压缩量 (mm)	Load 负荷 N (kgf)
TL 50 × 50	50	25	50	165.56	16.88	16.0	2,650 [270.2]	18.0	2,980 [303.9]	20.0	3,310 [337.5]
55			150.51	15.35	17.6	19.8		22.0			
60			137.96	14.07	19.2	21.6		24.0			
65			127.35	12.99	20.8	23.4		26.0			
70			118.25	12.06	22.4	25.2		28.0			
75			110.37	11.25	24.0	27.0		30.0			
80			103.47	10.55	25.6	28.8		32.0			
90			91.98	9.38	28.8	32.4		36.0			
100			82.78	8.44	32.0	36.0		40.0			
125			66.22	6.75	40.0	45.0		50.0			
150			55.19	5.63	48.0	54.0		60.0			
175			47.30	4.82	56.0	63.0		70.0			
200			41.39	4.22	64.0	72.0		80.0			
225			36.79	3.75	72.0	81.0		90.0			
250			33.11	3.38	80.0	90.0		100.0			
275			30.10	3.07	88.0	99.0		110.0			
300			27.59	2.81	96.0	108.0		120.0			
350			23.65	2.41	112.0	126.0		140.0			
400			20.69	2.11	128.0	144.0		160.0			
450			18.40	1.88	144.0	162.0		180.0			
500	16.56	1.69	160.0	180.0	200.0						
TL 60 × 60	60	30	60	198.61	20.25	19.2	3,810 [388.5]	21.6	4,290 [437.5]	24.0	4,770 [486.4]
70			170.24	17.36	22.4	25.2		28.0			
80			148.96	15.19	25.6	28.8		32.0			
90			132.41	13.50	28.8	32.4		36.0			
100			119.17	12.15	32.0	36.0		40.0			
125			95.33	9.72	40.0	45.0		50.0			
150			79.44	8.10	48.0	54.0		60.0			
175			68.10	6.94	56.0	63.0		70.0			
200			59.58	6.08	64.0	72.0		80.0			
225			52.96	5.40	72.0	81.0		90.0			
250			47.67	4.86	80.0	90.0		100.0			
275			43.33	4.42	88.0	99.0		110.0			
300			39.72	4.05	96.0	108.0		120.0			
350			34.05	3.47	112.0	126.0		140.0			
400			29.79	3.04	128.0	144.0		160.0			
450	26.48	2.70	144.0	162.0	180.0						
500	23.83	2.43	160.0	180.0	200.0						
TL 70 × 70	70	38.5	70	217.86	22.22	22.4	4,880 [497.6]	25.2	5,490 [559.8]	28.0	6,100 [622.0]
80			190.63	19.44	25.6	28.8		32.0			
90			169.44	17.28	28.8	32.4		36.0			
100			152.50	15.55	32.0	36.0		40.0			
125			122.00	12.44	40.0	45.0		50.0			
150			101.67	10.37	48.0	54.0		60.0			
175			87.14	8.89	56.0	63.0		70.0			
200			76.25	7.78	64.0	72.0		80.0			
225			67.78	6.91	72.0	81.0		90.0			
250			61.00	6.22	80.0	90.0		100.0			
275			55.45	5.65	88.0	99.0		110.0			
300			50.83	5.18	96.0	108.0		120.0			
350	43.57	4.44	112.0	126.0	140.0						