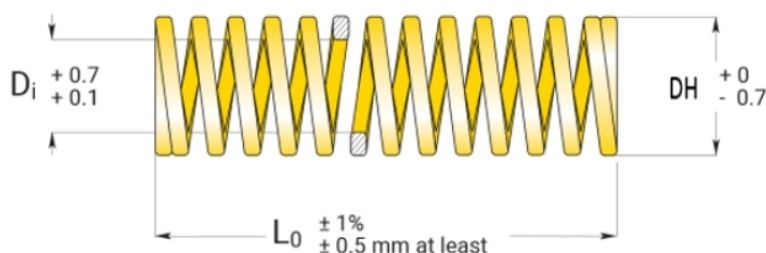
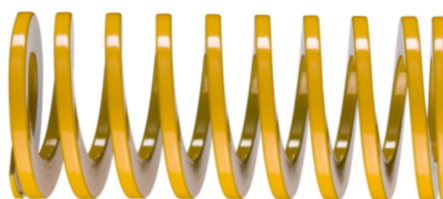


JIS (Japanese industrial standard)



Materiál:

Zliatinová oceľ s chrómom s vysokou pevnosťou v ťahu

Objednávacie číslo: COM – TF

Príklad objednania : COM – TF – DH x L0

Model 型号	Outside Diameter DH (mm)	Inside Diameter Di (mm)	Free length L0 (mm)	Spring Constant 弹簧常数		Free length × 40.0% 1,000,000 cycles 自由长 × 40.0% 100万次		Free length × 45.0% 500,000 cycles 自由长 × 45.0% 50万次		Free length × 50.0% 300,000 cycles 自由长 × 50.0% 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]
TF 8 × 10	8	4	10	15.24	{ 1.55 }	4.0	58.8 { 6.0 }	4.5	68.6 { 7.0 }	5.0	78.5 { 8.0 }
15			15	10.16	{ 1.04 }	6.0		6.8			
20			20	7.62	{ 0.78 }	8.0		9.0			
25			25	6.10	{ 0.62 }	10.0		11.3			
30			30	5.08	{ 0.52 }	12.0		13.5			
35			35	4.36	{ 0.44 }	14.0		15.8			
40			40	3.81	{ 0.39 }	16.0		18.0			
45			45	3.39	{ 0.35 }	18.0		20.3			
50			50	3.05	{ 0.31 }	20.0		22.5			
55			55	2.77	{ 0.28 }	22.0		24.8			
60			60	2.54	{ 0.26 }	24.0		27.0			
65			65	2.35	{ 0.24 }	26.0		29.3			
70			70	2.18	{ 0.22 }	28.0		31.5			
75			75	2.03	{ 0.21 }	30.0		33.8			
80	80	1.91	{ 0.19 }	32.0	36.0						
TF 10 × 20	10	5	20	9.81	{ 1.00 }	8.0	78.5 { 8.0 }	9.0	88.3 { 9.0 }	10.0	98.1 { 10.0 }
25			25	7.85	{ 0.80 }	10.0		11.3			
30			30	6.54	{ 0.67 }	12.0		13.5			
35			35	5.61	{ 0.57 }	14.0		15.8			
40			40	4.91	{ 0.50 }	16.0		18.0			
45			45	4.36	{ 0.44 }	18.0		20.3			
50			50	3.92	{ 0.40 }	20.0		22.5			
55			55	3.57	{ 0.36 }	22.0		24.8			
60			60	3.27	{ 0.33 }	24.0		27.0			
65			65	3.02	{ 0.31 }	26.0		29.3			
70			70	2.80	{ 0.29 }	28.0		31.5			
75			75	2.62	{ 0.27 }	30.0		33.8			
80			80	2.45	{ 0.25 }	32.0		36.0			
90			90	2.18	{ 0.22 }	36.0		40.5			

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 × 40.0% 1,000,000 cycles 自由长 × 40.0% 100万次		Free length × 45.0% 500,000 cycles 自由长 × 45.0% 50万次		Free length × 50.0% 300,000 cycles 自由长 × 50.0% 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]
TF 18 × 25	18	9	25	20.09	{ 2.05 }	10.0	206 { 21.0 }	11.3	226 { 23.0 }	12.5	255 { 26.0 }
30			16.74	{ 1.71 }	12.0	13.5		15.0			
35			14.35	{ 1.46 }	14.0	15.8		17.5			
40			12.56	{ 1.28 }	16.0	18.0		20.0			
45			11.16	{ 1.14 }	18.0	20.3		22.5			
50			10.04	{ 1.02 }	20.0	22.5		25.0			
55			9.13	{ 0.93 }	22.0	24.8		27.5			
60			8.37	{ 0.85 }	24.0	27.0		30.0			
65			7.73	{ 0.79 }	26.0	29.3		32.5			
70			7.17	{ 0.73 }	28.0	31.5		35.0			
75			6.70	{ 0.68 }	30.0	33.8		37.5			
80			6.28	{ 0.64 }	32.0	36.0		40.0			
90			5.58	{ 0.57 }	36.0	40.5		45.0			
100			5.02	{ 0.51 }	40.0	45.0		50.0			
125			4.02	{ 0.41 }	50.0	56.3		62.5			
TF 20 × 25	20	11	25	25.24	{ 2.57 }	10.0	255 { 26.0 }	11.3	284 { 29.0 }	12.5	314 { 32.0 }
30			21.04	{ 2.15 }	12.0	13.5		15.0			
35			18.03	{ 1.84 }	14.0	15.8		17.5			
40			15.78	{ 1.61 }	16.0	18.0		20.0			
45			14.02	{ 1.43 }	18.0	20.3		22.5			
50			12.62	{ 1.29 }	20.0	22.5		25.0			
55			11.47	{ 1.17 }	22.0	24.8		27.5			
60			10.52	{ 1.07 }	24.0	27.0		30.0			
65			9.71	{ 0.99 }	26.0	29.3		32.5			
70			9.02	{ 0.92 }	28.0	31.5		35.0			
75			8.41	{ 0.86 }	30.0	33.8		37.5			
80			7.89	{ 0.80 }	32.0	36.0		40.0			
90			7.01	{ 0.72 }	36.0	40.5		45.0			
100			6.31	{ 0.64 }	40.0	45.0		50.0			
125			5.05	{ 0.51 }	50.0	56.3		62.5			
150	4.21	{ 0.43 }	60.0	67.5	75.0						
TF 22 × 25	22	11	25	31.38	{ 3.20 }	10.0	314 { 32.0 }	11.3	353 { 36.0 }	12.5	392 { 40.0 }
30			26.15	{ 2.67 }	12.0	13.5		15.0			
35			22.41	{ 2.29 }	14.0	15.8		17.5			
40			19.61	{ 2.00 }	16.0	18.0		20.0			
45			17.43	{ 1.78 }	18.0	20.3		22.5			
50			15.69	{ 1.60 }	20.0	22.5		25.0			
55			14.26	{ 1.45 }	22.0	24.8		27.5			
60			13.07	{ 1.33 }	24.0	27.0		30.0			
65			12.07	{ 1.23 }	26.0	29.3		32.5			
70			11.21	{ 1.14 }	28.0	31.5		35.0			
75			10.46	{ 1.07 }	30.0	33.8		37.5			
80			9.81	{ 1.00 }	32.0	36.0		40.0			
90			8.72	{ 0.89 }	36.0	40.5		45.0			
100			7.84	{ 0.80 }	40.0	45.0		50.0			
125			6.28	{ 0.64 }	50.0	56.3		62.5			
150	5.23	{ 0.53 }	60.0	67.5	75.0						

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 × 40.0% 1,000,000 cycles 自由长 × 40.0% 100万次		Free length × 45.0% 500,000 cycles 自由长 × 45.0% 50万次		Free length × 50.0% 300,000 cycles 自由长 × 50.0% 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]					
TF 25 × 25	25	13.5	25	39.20	{ 4.00 }	10.0	392	11.3	441	12.5	490					
30			30	32.67	{ 3.33 }	12.0		13.5		15.0						
35			35	28.00	{ 2.86 }	14.0		15.8		17.5						
40			40	24.50	{ 2.50 }	16.0		18.0		20.0						
45			45	21.78	{ 2.22 }	18.0		20.3		22.5						
50			50	19.60	{ 2.00 }	20.0		22.5		25.0						
55			55	17.82	{ 1.82 }	22.0		24.8		27.5						
60			60	16.33	{ 1.67 }	24.0		27.0		30.0						
65			65	15.08	{ 1.54 }	26.0		29.3		32.5						
70			70	14.00	{ 1.43 }	28.0		{ 40.0 }		31.5		{ 45.0 }	35.0	{ 50.0 }		
75			75	13.07	{ 1.33 }	30.0		33.8		37.5						
80			80	12.25	{ 1.25 }	32.0		36.0		40.0						
90			90	10.89	{ 1.11 }	36.0		40.5		45.0						
100			100	9.80	{ 1.00 }	40.0		45.0		50.0						
125			125	7.84	{ 0.80 }	50.0		56.3		62.5						
150			150	6.53	{ 0.67 }	60.0		67.5		75.0						
175			175	5.60	{ 0.57 }	70.0		78.8		87.5						
200			200	4.90	{ 0.50 }	80.0		90.0		100.0						
TF 27 × 25			27	13.5	25	47.11		{ 4.80 }		10.0		471	11.3	530	12.5	588
30					30	39.26		{ 4.00 }		12.0			13.5		15.0	
35	35	33.65			{ 3.43 }	14.0	15.8	17.5								
40	40	29.44			{ 3.00 }	16.0	18.0	20.0								
45	45	26.17			{ 2.67 }	18.0	20.3	22.5								
50	50	23.56			{ 2.40 }	20.0	22.5	25.0								
55	55	21.41			{ 2.18 }	22.0	24.8	27.5								
60	60	19.63			{ 2.00 }	24.0	27.0	30.0								
65	65	18.12			{ 1.85 }	26.0	29.3	32.5								
70	70	16.83			{ 1.72 }	28.0	{ 48.0 }	31.5	{ 54.0 }	35.0	{ 60.0 }					
75	75	15.70			{ 1.60 }	30.0	33.8	37.5								
80	80	14.72			{ 1.50 }	32.0	36.0	40.0								
90	90	13.09			{ 1.33 }	36.0	40.5	45.0								
100	100	11.78			{ 1.20 }	40.0	45.0	50.0								
125	125	9.42			{ 0.96 }	50.0	56.3	62.5								
150	150	7.85			{ 0.80 }	60.0	67.5	75.0								
175	175	6.73			{ 0.69 }	70.0	78.8	87.5								
200	200	5.89			{ 0.60 }	80.0	90.0	100.0								

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 × 40.0% 1,000,000 cycles 自由长 × 40.0% 100万次		Free length × 45.0% 500,000 cycles 自由长 × 45.0% 50万次		Free length × 50.0% 300,000 cycles 自由长 × 50.0% 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]					
TF 30 × 25	30	16	25	56.62	5.77	10.0	569 { 58.0 }	11.3	637 { 65.0 }	12.5	706 { 72.0 }					
30			47.19	4.81	12.0	13.5		15.0								
35			40.44	4.12	14.0	15.8		17.5								
40			35.39	3.61	16.0	18.0		20.0								
45			31.46	3.21	18.0	20.3		22.5								
50			28.31	2.89	20.0	22.5		25.0								
55			25.74	2.62	22.0	24.8		27.5								
60			23.59	2.41	24.0	27.0		30.0								
65			21.78	2.22	26.0	29.3		32.5								
70			20.22	2.06	28.0	31.5		35.0								
75			18.87	1.92	30.0	33.8		37.5								
80			17.69	1.80	32.0	36.0		40.0								
90			15.73	1.60	36.0	40.5		45.0								
100			14.16	1.44	40.0	45.0		50.0								
125			11.32	1.15	50.0	56.3		62.5								
150			9.44	0.96	60.0	67.5		75.0								
175			8.09	0.82	70.0	78.8		87.5								
200	7.08	0.72	80.0	90.0	100.0											
TF 35 × 40	35	19	40	47.94	4.89	16.0	765 { 78.0 }	18.0	863 { 88.0 }	20.0	961 { 98.0 }					
45			42.62	4.35	18.0	20.3		22.5								
50			38.36	3.91	20.0	22.5		25.0								
55			34.87	3.56	22.0	24.8		27.5								
60			31.96	3.26	24.0	27.0		30.0								
65			29.50	3.01	26.0	29.3		32.5								
70			27.40	2.79	28.0	31.5		35.0								
75			25.57	2.61	30.0	33.8		37.5								
80			23.97	2.44	32.0	36.0		40.0								
90			21.31	2.17	36.0	40.5		45.0								
100			19.18	1.96	40.0	45.0		50.0								
125			15.34	1.56	50.0	56.3		62.5								
150			12.79	1.30	60.0	67.5		75.0								
175			10.96	1.12	70.0	78.8		87.5								
200			9.59	0.98	80.0	90.0		100.0								
TF 40 × 40			40	22	40	62.67		6.39		16.0		1,000 { 102.0 }	18.0	1,128 { 115.0 }	20.0	1,255 { 128.0 }
45					55.70	5.68		18.0		20.3			22.5			
50	50.13	5.11			20.0	22.5	25.0									
55	45.58	4.65			22.0	24.8	27.5									
60	41.78	4.26			24.0	27.0	30.0									
65	38.56	3.93			26.0	29.3	32.5									
70	35.81	3.65			28.0	31.5	35.0									
75	33.42	3.41			30.0	33.8	37.5									
80	31.33	3.20			32.0	36.0	40.0									
90	27.85	2.84			36.0	40.5	45.0									
100	25.07	2.56			40.0	45.0	50.0									
125	20.05	2.04			50.0	56.3	62.5									
150	16.71	1.70			60.0	67.5	75.0									
175	14.32	1.46			70.0	78.8	87.5									
200	12.53	1.28			80.0	90.0	100.0									
225	11.14	1.14			90.0	101.3	112.5									
250	10.03	1.02			100.0	112.5	125.0									
275	9.12	0.93	110.0	123.8	137.5											
300	8.36	0.85	120.0	135.0	150.0											

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 × 40.0% 1,000,000 cycles 自由长 × 40.0% 100万次		Free length × 45.0% 500,000 cycles 自由长 × 45.0% 50万次		Free length × 50.0% 300,000 cycles 自由长 × 50.0% 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]
TF 50 × 50	50	27.5	50	78.44	{ 8.00 }	20.0	1,569 {160.0}	22.5	1,765 {180.0}	25.0	1,961 {200.0}
55			55	71.31	{ 7.27 }	22.0		24.8		27.5	
60			60	65.37	{ 6.67 }	24.0		27.0		30.0	
65			65	60.34	{ 6.15 }	26.0		29.3		32.5	
70			70	56.03	{ 5.71 }	28.0		31.5		35.0	
75			75	52.30	{ 5.33 }	30.0		33.8		37.5	
80			80	49.03	{ 5.00 }	32.0		36.0		40.0	
90			90	43.58	{ 4.44 }	36.0		40.5		45.0	
100			100	39.22	{ 4.00 }	40.0		45.0		50.0	
125			125	31.38	{ 3.20 }	50.0		56.3		62.5	
150			150	26.15	{ 2.67 }	60.0		67.5		75.0	
175			175	22.41	{ 2.29 }	70.0		78.8		87.5	
200			200	19.61	{ 2.00 }	80.0		90.0		100.0	
225			225	17.43	{ 1.78 }	90.0		101.3		112.5	
250			250	15.69	{ 1.60 }	100.0		112.5		125.0	
275			275	14.26	{ 1.45 }	110.0		123.8		137.5	
300			300	13.07	{ 1.33 }	120.0		135.0		150.0	
350			350	11.21	{ 1.14 }	140.0		157.5		175.0	
400			400	9.81	{ 1.00 }	160.0		180.0		200.0	
450			450	8.72	{ 0.89 }	180.0		202.5		225.0	
500	500	7.84	{ 0.80 }	200.0	225.0	250.0					
TF 60 × 60	60	33	60	94.07	{ 9.59 }	24.0	2,260 {230.5}	27.0	2,540 {259.0}	30.0	2,820 {287.6}
70			70	80.63	{ 8.22 }	28.0		31.5		35.0	
80			80	70.56	{ 7.19 }	32.0		36.0		40.0	
90			90	62.72	{ 6.40 }	36.0		40.5		45.0	
100			100	56.44	{ 5.76 }	40.0		45.0		50.0	
125			125	45.16	{ 4.60 }	50.0		56.3		62.5	
150			150	37.63	{ 3.84 }	60.0		67.5		75.0	
175			175	32.25	{ 3.29 }	70.0		78.8		87.5	
200			200	28.22	{ 2.88 }	80.0		90.0		100.0	
225			225	25.09	{ 2.56 }	90.0		101.3		112.5	
250			250	22.58	{ 2.30 }	100.0		112.5		125.0	
275			275	20.53	{ 2.09 }	110.0		123.8		137.5	
300			300	18.81	{ 1.92 }	120.0		135.0		150.0	
350			350	16.13	{ 1.64 }	140.0		157.5		175.0	
400			400	14.11	{ 1.44 }	160.0		180.0		200.0	
450			450	12.54	{ 1.28 }	180.0		202.5		225.0	
500	500	11.29	{ 1.15 }	200.0	225.0	250.0					
TF 70 × 70	70	38.5	70	114.29	{ 11.65 }	28.0	3,200 {326.3}	31.5	3,600 {367.0}	35.0	4,000 {407.9}
80			80	100.00	{ 10.20 }	32.0		36.0		40.0	
90			90	88.89	{ 9.06 }	36.0		40.5		45.0	
100			100	80.00	{ 8.16 }	40.0		45.0		50.0	
125			125	64.00	{ 6.53 }	50.0		56.3		62.5	
150			150	53.33	{ 5.44 }	60.0		67.5		75.0	
175			175	45.71	{ 4.66 }	70.0		78.8		87.5	
200			200	40.00	{ 4.08 }	80.0		90.0		100.0	
225			225	35.56	{ 3.63 }	90.0		101.3		112.5	
250			250	32.00	{ 3.26 }	100.0		112.5		125.0	
275			275	29.09	{ 2.97 }	110.0		123.8		137.5	
300			300	26.67	{ 2.72 }	120.0		135.0		150.0	
350			350	22.86	{ 2.33 }	140.0		157.5		175.0	