

型號：YJL
Model: YJL顏色：綠色
Color: Green重荷重的最大壓縮量的計算公式
Maximum Deflection (mm) = Free Length x 40%

- Load Calculation Formula :
 $\text{Load}(N) = \text{Spring Elasticity Constant} \times \text{Deflection(mm)}$
 - 荷重計算公式：
荷重(N)=彈簧彈性係數×壓縮量(mm)
- 常規訂購方法：
Order-Routine Specification
 YJL 10 x 25 = 100 數量
 型號 Model 外徑 Outer Diameter 自由長 Free Length
 10 25 100

Calculation Formula of Maximum Deflection of Light Load
Maximum Deflection (mm) = Free Length x 40%

Allowable Tolerance 容許公差

Housing Diameter 模孔徑	Spring-guide Diameter 軸徑	Free Length 自由高度			Load 負荷	Windings 旋向
		25~64mm	76~115mm	127~305mm		
H15	h15	±3%	±2.5%	±2%	±10%	Right 右旋

Spring elasticity constant of YJL and the relationship between Working times and Load

YJL 的彈性係數以及使用次數和荷重的關係

Free Length 自由長	Hole Diameter 模孔徑 (mm)								
	10	12.5	16	20	25	32	40	50	63
Hole Diameter Tolerance 模孔徑公差 H15	+0.58 -0	+0.70 -0	+0.70 -0	+0.84 -0	+0.84 -0	+1.00 -0	+1.00 -0	+1.00 -0	+1.20 -0
25	12.0	24.0	30.0	60.0	90.0				
32	9.4	18.8	23.4	46.9	70.3				
38	7.9	15.8	19.7	39.5	59.2	92.1			
44	6.8	13.6	17.0	34.1	51.1	79.5			
51	5.9	11.8	14.7	29.4	44.1	68.6	98.0		
64	4.7	9.4	11.7	23.4	35.2	54.7	78.1	156.3	
76	3.9	7.9	9.9	19.7	29.6	46.1	65.8	131.6	197.4
89	3.4	6.7	8.4	16.9	25.3	39.3	56.2	112.4	168.5
102	2.9	5.9	7.4	14.7	22.1	34.3	49.0	98.0	147.1
115		5.2	6.5	13.0	19.6	30.4	43.5	87.0	130.4
127			5.9	11.8	17.7	27.6	39.4	78.7	118.1
139				10.8	16.2	25.2	36.0	71.9	
152				9.9	14.8	23.0	32.9	65.8	98.7
178				8.4	12.6	19.7	28.1	56.2	84.3
203				7.4	11.1	17.2	24.6	49.3	73.9
229					9.8	15.3	21.8	43.7	65.5
254						13.8	19.7	39.4	59.1
305	1.0	2.0	2.5	4.9	7.4	11.5	16.4	32.8	49.2
Rod Diameter 軸徑	5	6.3	8	10	12.5	16	20	25	38
Rod Diameter Tolerance 軸徑公差 h15	+0 -0.58	+0 -0.58	+0 -0.58	+0 -0.58	+0 -0.7	+0 -0.7	+0 -0.84	+0 -0.84	+0 -0.1

Deflection 壓縮量 (mm)				
3.0 million 300 萬次	1.5 million 150 萬次	0.5 million 50 萬次	0.2 million 20 萬次	Warning Can't be used 不可使用
6.3	7.5	8.8	10.0	10.5
8.0	9.6	11.2	12.8	13.4
9.5	11.4	13.3	15.2	16.0
11.0	13.2	15.4	17.6	18.5
12.8	15.3	17.9	20.4	21.4
16.0	19.2	22.4	25.6	26.9
19.0	22.8	26.6	30.4	31.9
22.3	26.7	31.2	35.6	37.4
25.5	30.6	35.7	40.8	42.8
28.8	34.5	40.3	46.0	48.3
31.8	38.1	44.5	50.8	53.3
34.8	41.7	48.7	55.6	58.4
38.0	45.6	53.2	60.8	63.8
44.5	53.4	62.3	71.2	74.8
50.8	60.9	71.1	81.2	85.3
57.3	68.7	80.2	91.6	96.2
63.5	76.2	88.9	101.6	106.7
76.3	91.5	106.8	122.0	128.1

The value in the table is the Spring Elasticity Constant (N/mm)
表中數值為彈性係數 (N/mm)

Working Times 使用次數	Load 荷重 (N)								
	75	150	188	375	563	875	1250	2500	3750
3.0 million 300 萬次									
1.5 million 150 萬次	90	180	225	450	675	1050	1500	3000	4500
0.5 million 50 萬次	105	210	263	525	788	1225	1750	3500	5250
0.2 million 20 萬次	120	240	300	600	900	1400	2000	4000	6000

Deflection (% of Free Length) 壓縮量 (自由長%)
Free Length x 25.0%
Free Length x 30.0%
Free Length x 35.0%
Free Length x 40.0%

1N = 0.1daN = 0.102kgf

1mm = 0.0394 in.