

Tension Spring ▶ Medium Load Type



Please order according to the diagram

①~③ Select the type and parameters in the order of for ordering.

Model (●Code) — ●D — ●L
BVAWS — D3 — L10

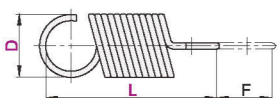


Discounted Price
Quantity 1~9 10~
Price 100% Separate Quotation
Price Excluding Tax (¥/unit)

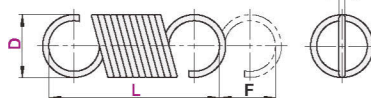


CAD 2D 3D

Relative Angle of Hooks 90°



Relative Angle of Hooks 180°



Code	Type		Material		Surface Treatment	Relative Angle of Hooks
			International	Equivalent		
BVAWS	Medium Load Type	Standard Type	Spring steel	SWP-A	Black Oxide Finish	90°
BVAUS			0Cr18Ni9	SUS304	—	
BVBWS			Spring steel	SWP-A	Black Oxide Finish	180°
BVBUS			0Cr18Ni9	SUS304	—	

Model			Wire Diameter d	During Dynamic Load		Initial Tension (N)	Spring Constant N/mm
Code	D	L		Maximum Displacement Fmax	Maximum Load N		
BVBWS BVBUS	2	10	0.3	3.8	3.53	0.69	0.75
		15		6.7			0.42
		20		9.6			0.30
	3	25	0.4	12.6	4.41	0.88	0.23
		10*		3.5			0.98
		15*		6.0			0.59
	4	20*	0.5	9.0	6.37	1.18	0.39
		25		12.0			0.29
		30		15.6			0.23
	5	15*	0.6	6.5	8.53	1.57	0.78
		20*		10.2			0.49
		25*		13.9			0.39
BVAWS BVAUS BVBWS BVBUS	6	30*	0.8	17.5	17.26	3.53	0.29
		35		20.3			0.26
		40*		24.0			0.22
	8	15*	1.0	5.6	24.52	4.9	1.27
		20*		8.9			0.78
		25*		13.7			0.49
	10	30*	1.2	17.3	30.99	5.49	0.39
		35*		23.7			0.29
		40*		24.5			0.28
	12	45	1.5	28.4	47.2	7.5	0.25
		50		32.2			0.22
		55*		36.3			0.20
	14	60*	1.8	40.0	60.0	10.0	0.17
		65		43.3			0.16
		70		47.2			0.15
	16	75	2.0	50.6	81.4	13.5	0.14
		80		54.9			0.13
		85		59.2			0.12
	18	90	2.2	63.5	105.0	15.7	0.11
		95		67.8			0.10
		100		72.1			0.10
	20	105	2.4	76.4	128.0	19.0	0.09
		110		80.7			0.09
		115		85.0			0.08
	22	120	2.6	89.3	151.0	22.6	0.08
		125		93.6			0.08
		130		97.9			0.07
	24	135	2.8	102.2	174.0	26.2	0.07
		140		106.5			0.07
		145		110.8			0.06
	26	150	3.0	115.1	197.0	31.1	0.06
		155		119.4			0.06
		160		123.7			0.05
	28	165	3.2	128.0	220.0	35.7	0.05
		170		132.3			0.05
		175		136.6			0.05

① Initial Tension and Spring Constant are reference values. Load [kgf] = Load N x 0.101972

Model			Wire Diameter d	During Dynamic Load		Initial Tension (N)	Spring Constant N/mm
Code	D	L		Maximum Displacement Fmax	Maximum Load N		
BVAWS BVAUS BVBWS BVBUS	12	35	1.6	8.5	62.76	14.71	5.69
		40		11.8			4.12
		45		14.3			3.33
	14	50	1.8	16.8	74.53	16.67	2.84
		55		19.3			2.45
		60		22.3			2.16
	16	65	2.0	24.5	86.3	19.61	1.96
		70		27.2			1.77
		75		28.8			1.67
	18	80	2.2	32.7	115.72	27.46	1.47
		90		36.3			1.35
		100		41.0			1.20
BVBWS	20	40	2.6	10.2	150.04	36.28	5.69
		45		13.1			4.41
		50		16.4			3.53
	22	55	2.8	19.7	174.0	39.6	2.94
		60		21.1			2.75
		65		24.6			2.35
	24	70	3.0	27.6	225.55	56.88	2.08
		75		31.1			1.86
		80		32.8			1.77
	26	85	3.2	37.5	250.0	62.5	1.60
		90		42.8			1.40
		100		48.3			1.20
	28	105	3.4	53.0	275.0	68.8	1.00
		110		57.7			0.95
		115		62.4			0.90
	30	120	3.6	67.1	300.0	75.0	0.85
		125		71.5			0.80
		130		75.9			0.75
	32	135	3.8	80.2	325.0	81.25	0.70
		140		84.6			0.65
		145		89.0			0.60
	34	150	4.0	93.3	350.0	87.5	0.55
		155		97.7			0.50
		160		102.0			0.45
	36	165	4.2	106.3	375.0	93.75	0.40
		170		110.6			0.35
		175		114.9			0.30
	38	180	4.4	119.1	400.0	100.0	0.25
		185		123.4			0.20
		190		127.7			0.15
	40	195	4.6	131.9	425.0	106.25	0.10
		200		136.2			0.05
		205		140.5			0.05