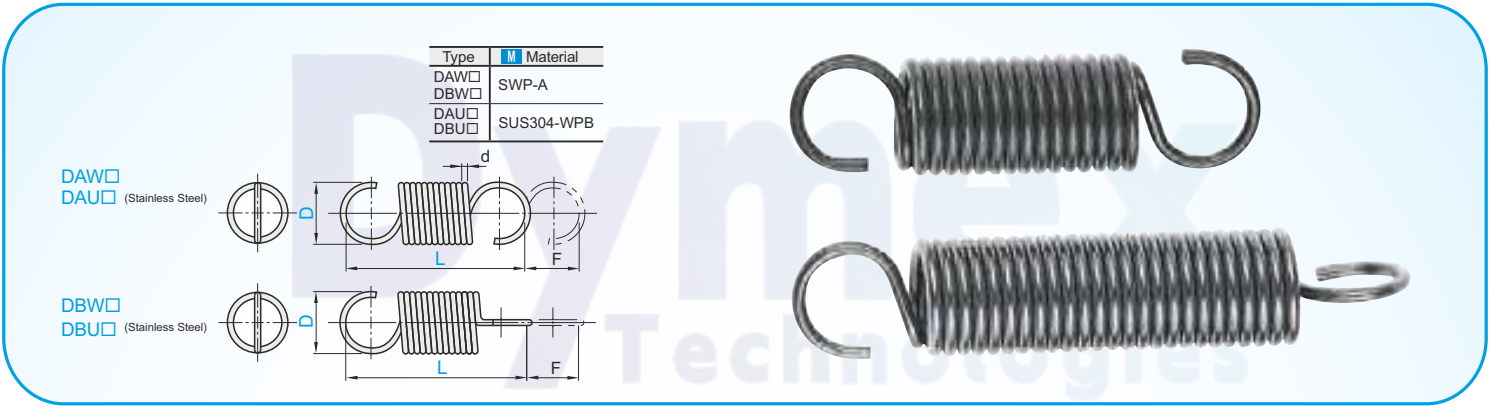


# Tension Springs



Extra Light Load / Light Load / Light Medium Load / Medium Load



## Extra Light Load

Part No.		Wire Dia dmm	Dynamic Load		(Initial Tension) N	(Spring Constant) N / mm
Type	D-L		Max Deflection Fmax. mm	Max. Load N		
DAWA DAUA	2-10	0.2	6.7	0.69	0.69	0.083
	15		11.8			0.047
	20		17.2			0.032
	25		22.8			0.025
	30		28.5			0.02
DAWA DAUA	3-10	0.25	10.4	1.27	1.27	0.11
	15		23			0.049
	20		35.9			0.031
	25		47.9			0.024
	30		57.5			0.02
DAWA DAUA	4-15	0.35	14.6	2.26	2.26	0.14
	20		24.1			0.083
	25		32.5			0.062
	30		42.7			0.047
	35		51.2			0.039
DAWA DAUA	5-15	0.45	8.2	3.24	3.24	0.33
	20		15.5			0.18
	25		21.5			0.13
	30		29.4			0.093
	35		35			0.078
DAWA DAUA	40	0.55	43	6.08	6.08	0.064
	45		50.9			0.054
	50		56			0.049
	55		62			0.044
	60		68.3			0.039
	65		74.4			0.034
	70		80.5			0.029
	75		86.6			0.024
DAWA DAUA	8-25	0.7	18.1	8.53	8.53	0.41
	30		27.1			0.28
	35		36.2			0.21
	40		44.7			0.17
	45		54.2			0.14
	50		63.3			0.12
	55		69			0.11
	60		80			0.093
	65		89.4			0.083
	70		95			0.078
DAWA DAUA	10-30	0.9	13.4	10.8	10.8	0.65
	35		18.5			0.47
	40		24			0.36
	45		29.6			0.29
	50		35.6			0.25
	55		42.3			0.21
	60		46.8			0.19
	70		59.3			0.15
	80		68.4			0.13
	90		80.9			0.11
DAWA DAUA	100	1.1	93.6	19.6	19.6	0.093
	12-35		17.8			0.94
	40		25			0.67
	45		31			0.54
	50		37.7			0.44
	55		44.7			0.37
	60		51.5			0.32
	70		65.3			0.26
80	77.2	0.22				
90	94.4	0.18				
100	106.2	0.16				

## Light Load Type \* marked dimensions are for AWY and AUJ only.

Part No.		Wire Dia dmm	Dynamic Load		(Initial Tension) N	(Spring Constant) N / mm
Type	D-L		Max Deflection Fmax. mm	Max. Load N		
DAWY DAUY	2-10	0.25	5.7	1.86	0.34	0.27
	15		10.3			0.15
	20		14			0.11
	25		18.2			0.08
	30		22.1			0.07
DAWY DBWY DAUY DBUY	3-10	0.3	8.7	2.25	0.29	0.23
	15		16.6			0.12
	20		25			0.08
	25		33.3			0.06
	30		40			0.05
DAWY DBWY DAUY DBUY	4-15	0.4	10	3.24	0.59	0.26
	20		16.8			0.16
	25		22.5			0.12
	30		28.4			0.09
	35		33.7			0.08
DAWY DBWY DAUY DBUY	40	0.5	38.5	4.22	0.88	0.07
	45		37.7			0.09
	50		42.5			0.08
	55		47.2			0.07
	60		51.9			0.06
DAWY DBWY DAUY DBUY	6-20	0.6	14	8.14	1.27	0.49
	25		21.2			0.32
	30		28			0.25
	35		35			0.2
	40		41.1			0.17
	45		50			0.14
	50		53.8			0.13
	55		63.6			0.11
	60		70			0.1
	65		78.8			0.09
DAWY DBWY DAUY DBUY	8-25	0.8	15.1	12.75	2.35	0.69
	30		21.2			0.49
	35		26.5			0.39
	40		33.1			0.31
	45		39.2			0.26
	50		46			0.23
	55		48.1			0.22
	60		53			0.2
	65		58.8			0.18
	70		66.2			0.16
DAWY DBWY DAUY DBUY	10-30	1	11.5	15	3.73	0.98
	35		15.3			0.74
	40		19.8			0.57
	45		23.9			0.47
	50		28.7			0.39
	55		32.8			0.34
	60		37			0.3
	65		39.6			0.29
	70		44.2			0.26
	75		47.9			0.24
DAWY DBWY DAUY DBUY	80	1.2	52.2	31.37	5.39	0.22
	*90		60.5			0.19
	*100		71.8			0.16
	12-35		22			1.18
	40		27.8			0.93
	45		35.3			0.74
	50		42			0.62
	55		50			0.52
	60		55.2			0.47
	65		63			0.41
70	69.7	0.37				
75	77.9	0.33				
80	82.8	0.31				
90	91.3	0.29				
100	106	0.25				
DAWY DBWY DAUY DBUY	14-40	1.5	15.4	38.24	8.43	1.94
	45		21			1.42
	50		25.4			1.17
	55		30.8			0.97
	60		37			0.8
	65		43.2			0.69
	70		46.2			0.64
	75		52.8			0.56
	80		58.3			0.51
	90		68.1			0.43
100	76.4	0.39				
125	91	0.33				
DAWY DAUY	16-45	1.6 (AWY) 1.7 (AUJ)	15.8	43.15	9.12	2.16
	50		21			1.62
	55		25.7			1.32
	60		31.5			1.08
	65		35.8			0.95
	70		40.8			0.83
	75		46.3			0.74
	80		49.6			0.69
	90		60.9			0.56
	100		69.4			0.49
125	91.3	0.37				
150	115.6	0.29				
DAWY	18-50	1.8	21	52.96	9.81	2.05
	60		26			1.66
	65		31			1.39
	70		36			1.2
	75		42			1.03
	80		46			0.94
	90		54			0.8
	100		66			0.65
	125		75			0.58
	150		104.5			0.41
DAWY	20-60	2	29.1	78.45	12.75	2.26
	70		41.8			1.57
	80		53.6			1.23
	90		67			0.98
	100		78.8			0.83
	125		111.6			0.59
	150		139.5			0.47
	175		167.5			0.39

Initial Tension And Spring Constant Are For Reference Only. Load {kgf} = Load Nx0.101972

ORDERING GUIDE



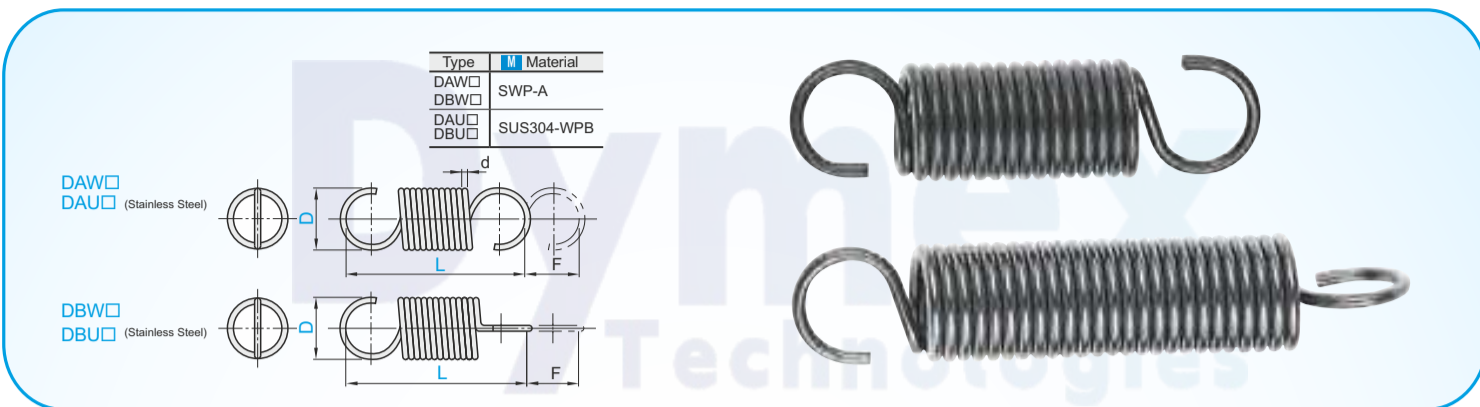
DAWY 10 - 50

www.dymextech.com  
india@dymextech.com

# Tension Springs



Extra Light Load / Light Load / Light Medium Load / Medium Load



Extra Light Load/Light Load Type \* marked dimensions are for DAWY and DAUY only.

Part No.	Type	D-L	Wire Dia dmm	Dynamic Load		(Initial Tension) N	(Spring Constant) N / mm
				Max Deflection Fmax. mm	Max. Load N		
DAWU DAUU		2-10	0.28	4	2.45	0.49	0.49
		15		6.7			0.29
		20		10			0.2
		25		13.3			0.15
DAWU DBWU DAUU DBUU		3-10	0.35	4.6	3.33	0.66	0.59
		15		9.1			0.29
		20		14.3			0.19
		25		19.5			0.14
DAWU DBWU DAUU DBUU		4-15	0.45	7.5	4.81	0.98	0.51
		20		12.2			0.31
		25		16.9			0.23
		30		21.7			0.18
		35		26			0.15
		40		30			0.13
DAWU DBWU DAUU DBUU		5-15	0.55	5.7	6.37	1.37	0.89
		20		9.8			0.51
		25		14.2			0.35
		30		18.9			0.26
		35		24.3			0.21
		40		28.3			0.18
DAWU DBWU DAUU DBUU		20	0.7	9.8	12.94	1.67	0.51
		25		14.4			0.78
		30		20.2			0.56
		35		28.8			0.39
		40		30.3			0.37
		45		34.8			0.32
DAWU DBWU DAUU DBUU		45	0.9	41.1	18.63	3.92	0.27
		50		44.2			0.25
		60		50			0.23
		65		50			0.23
		70		50			0.29
		75		50			0.29
DAWU DBWU DAUU DBUU		8-25	1.1	10	23.24	4.71	1.47
		30		14.3			1.03
		35		18.8			0.78
		40		23.8			0.62
		45		28.3			0.52
		50		32.6			0.45
		55		37.5			0.39
		60		41.7			0.35
		65		46.9			0.31
		70		50			0.29
DAWU DBWU DAUU DBUU		10-30	1.4	9.9	47.7	10.49	1.87
		35		14			1.32
		40		18			1.03
		45		22.2			0.83
		50		26.3			0.71
		55		31.5			0.59
		60		35.7			0.52
		65		38.6			0.48
		70		43			0.43
		75		47.3			0.39
DAWU DAUU		80	1.6	51	58.84	13.73	0.36
		*90		59			0.31
		*100		67.5			0.27
		12-35		11.7			3.14
		40		15.5			2.35
		45		19.6			1.86
		50		23.3			1.57
		55		28.7			1.27
		60		32.4			1.13
		65		37.3			0.98
DAWU DAUU		70	1.8	41.4	70.61	16.67	0.88
		75		44.9			0.81
		80		49.7			0.74
		90		57.4			0.64
		100		61.3			0.74
		125		83.6			0.54
		150		100			0.54
		50		17.7			3.04
		55		22			2.45
		60		26			2.06
65	30.5	1.77					
DAWU		70	1.9	34.3	81.39	17.65	1.57
		75		39.2			1.37
		80		42.3			1.27
		90		50			1.08
		100		57.8			0.93
		125		78.7			0.69
		150		100			0.54
		50		17.7			3.04
		55		22			2.45
		60		26			2.06
65	30.5	1.77					
DAWU		70	2	39.2	98.07	22.56	1.37
		80		42.3			1.27
		90		50			1.08
		100		57.8			0.93
		125		78.7			0.69
		150		100			0.54
		175		125			0.43
		70		16			4.72
		80		22.6			3.34
		90		28.5			2.65
100	36.6	2.06					
125	42.7	1.77					
150	59.2	1.28					
175	77	0.98					
90.5	90.5	0.83					

Initial tension and spring constant are for reference only. Load (kgf) = Load Nx0.101972

Medium Load Type \* marked dimensions are for DAWS and DAUS only.

Part No.	Type	D-L	Wire Dia dmm	Dynamic Load		(Initial Tension) N	(Spring Constant) N / mm
				Max Deflection Fmax. mm	Max. Load N		
DAWS DAUS		2-10	0.25	3.8	1.86	0.34	0.75
		15		6.7			0.42
		20		9.6			0.3
		25		12.6			0.23
DAWS DAUS DBWS DBUSS		3-10	0.3	3.5	2.25	0.29	0.98
		15		6			0.59
		20		9			0.39
		25		12			0.29
DAWS DBWS DAUS DBUSS		30	0.4	15.6	3.24	0.59	0.23
		35		6.5			0.78
		40		10.2			0.49
		45		13.9			0.39
		50		17.5			0.29
		55		20.3			0.26
DAWS DBWS DAUS DBUSS		25	0.5	24	4.22	0.88	0.22
		30		5.6			1.27
		35		8.9			0.78
		40		13.7			0.49
		45		17.3			0.39
		50		23.7			0.29
DAWS DBWS DAUS DBUSS		50	0.6	24.5	8.14	1.27	0.28
		55		28.4			0.25
		60		32.2			0.22
		65		36.3			0.22
		70		40			0.22
		75		44.2			0.22
DAWS DBWS DAUS DBUSS		8-25	0.8	6.7	12.75	2.35	2.06
		30		9.3			1.47
		35		12.7			1.08
		40		15.6			0.88
		45		18.7			0.69
		50		20.6			0.68
DAWS DBWS DAUS DBUSS		55	1	24.5	15	3.73	0.57
		60		28			0.5
		65		29.7			0.47
		70		31.6			0.47
		75		33.3			0.47
		80		36.3			0.47
DAWS DBWS DAUS DBUSS		85	1.2	38.8	31.37	5.39	0.67
		90		43.3			0.6
		95		47.2			0.55
		100		51.1			0.5
		105		55			0.5
		110		58.9			0.5
		115		62.8			0.5
		120		66.7			0.5
		125		70.6			0.5
		130		74.5			0.5
DAWS DAUS		135	1.5	78.4	38.24	8.43	0.49
		140		82.3			0.49
		145		86.2			0.49
		150		90.1			0.49
		155		94			0.49
		160		97.9			0.49
		165		101.8			0.49
		170		105.7			0.49
		175		109.6			0.49
		180		113.5			0.49
DAWS DAUS		185	1.6	117.4	43.15	9.12	0.43
		190		121.3			0.43
		195		125.2			0.43
		200		129.1			0.43
		205		133			0.43
		210		136.9			0.43
		215		140.8			0.43
		220		144.7			0.43
		225		148.6			0.43
		230		152.5			0.43
DAWS		235	1.7	156.4	52.96	9.81	0.43
		240		160.3			0.43
		245		164.2			0.43
		250		168.1			0.43
		255		172			0.43
		260		175.9			0.43
		265		179.8			0.43
		270		183.7			0.43
		275		187.6			0.43
		280		191.5			0.43
DAWS		285	1.8	195.4	78.45	12.75	0.43
		290		199.3			0.43
		295		203.2			0.43
		300		207.1			0.43
		305		211			0.43
		310		214.9			0.43
		315		218.8			0.43
		320		222.7			0.43
		325		226.6			0.43
		330		230.5			0.43
DAWS		335	2	234.4	98.07	22.56	0.43
		340		238.3			0.43
		345		242.2			0.43
		350		246.1			0.43
		355		250			0.43
		360		253.9			0.43
		365		257.8			0.43
		370		261.7			0.43
		375		265.6			0.43
		380		269.5			0.43
DAWS		385	2.3	273.4	127.56	29.56	0.43
		390		277.3			0.43
		395		281.2			0.43
		400		285.1			0.43
		405		289			0.43
		410		292.9			0.43
		415		296.8			0.43
		420		300.7			0.43
		425		304.6			0.43
		430		308.5			0.43

ORDERING GUIDE



DAWY 10 - 50

www.dymextech.com

india@dymextech.com