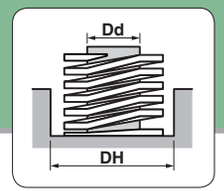
ISO ばね　軽荷重

TJL LIGHT LOADS ISO 10243

COIL SPRING



Dd (mm)	ばね定数 N/mm (kgf/mm)	自由長 ×25% 300万回 たわみ (mm)	荷重 N {kgf}	自由長 ×30% 150万回 たわみ (mm)	荷重 N {kgf}	自由長 ×35% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×40% 20万回 たわみ (mm)	荷重 N {kgf}	たわみ限界 (mm)	Catalog No.	DH (mm)	自由長 L (mm)
	12.0 {1.22}	6.3		7.5		8.8		10.0		10.2			25
	9.4 {0.95}	8.0		9.6		11.2		12.8		13.4			32
	7.9 {0.80}	9.5		11.4		13.3		15.2		16.1			38
	6.8 {0.69}	11.0		13.2		15.4		17.6		18.8			44
5	5.9 {0.60}	12.8	75 {7.7}	15.3	90 {9.2}	17.9	105 {10.7}	20.4	120 {12.2}	22.0		10	51
	4.7 {0.47}	16.0		19.2		22.4		25.6		27.9			64
	3.9 {0.39}	19.0		22.8		26.6		30.4		33.4			76
	3.4 {0.34}	22.3		26.7		31.2		35.6		39.3			89
	2.9 {0.29}	25.5		30.6		35.7		40.8		45.2			102
	1.0 {0.10}	76.3		91.5		106.8		122.0		137.1			305
	24.0 {2.44}	6.3		7.5		8.8		10.0		10.6			25
	18.8 {1.91}	8.0		9.6		11.2		12.8		14.0			32
	15.8 {1.61}	9.5		11.4		13.3		15.2		17.0			38
	13.6 {1.38}	11.0		13.2		15.4		17.6		19.7			44
	11.8 {1.20}	12.8		15.3		17.9		20.4		23.2			51
	9.4 {0.95}	16.0	150 {15.3}	19.2	180 {18.4}	22.4	210 {21.4}	25.6	240 {24.5}	29.7		12.5	64
6.3	7.9 {0.80}	19.0		22.8		26.6		30.4		35.2			76
	6.7 {0.68}	22.3		26.7		31.2		35.6		41.5			89
	5.9 {0.60}	25.5		30.6		35.7		40.8		47.2			102
	5.2 {0.53}	28.8		34.5		40.3		46.0		53.2			115
	2.0 {0.20}	76.3		91.5		106.8		122.0		143.8			305
	30.0 {3.06}	6.3		7.5		8.8		10.0		10.9			25
	23.4 {2.38}	8.0		9.6		11.2		12.8		14.4			32
	19.7 {2.00}	9.5		11.4		13.3		15.2		17.4			38
	17.0 {1.73}	11.0		13.2		15.4		17.6		20.3	TJL		44
	14.7 {1.49}	12.8		15.3		17.9		20.4		23.9			51
	11.7 {1.19}	16.0	188 {19.2}	19.2	225 {23}	22.4	263 {26.8}	25.6	300 {30.6}	30.3		16	64
8	9.9 {1.00}	19.0		22.8		26.6		30.4		36.3			76
	8.4 {0.85}	22.3		26.7		31.2		35.6		42.8			89
	7.4 {0.75}	25.5		30.6		35.7		40.8		49.3			102
	6.5 {0.66}	28.8		34.5		40.3		46.0		55.7			115
	5.9 {0.60}	31.8		38.1		44.5		50.8		61.8			127
	2.5 {0.25}	76.3		91.5		106.8		122.0		150.5			305
	60.0 {6.12}	6.3		7.5		8.8		10.0		10.3			25
	46.9 {4.78}	8.0		9.6		11.2		12.8		13.3			32
	39.5 {4.02}	9.5		11.4		13.3		15.2		16.2			38
	34.1 {3.47}	11.0		13.2		15.4		17.6		18.6			44
	29.4 {2.99}	12.8		15.3		17.9		20.4		21.5			51
	23.4 {2.38}	16.0		19.2		22.4		25.6		27.0			64
	19.7 {2.00}	19.0		22.8		26.6		30.4		32.6			76
	16.9 {1.72}	22.3	375 {38.3}	26.7	450 {45.9}	31.2	525 {53.6}	35.6	600 {61.2}	38.2		20	89
	14.7 {1.49}	25.5		30.6		35.7		40.8		45.0			102
10	13.0 {1.32}	28.8		34.5		40.3		46.0		50.5			115
	11.8 {1.20}	31.8		38.1		44.5		50.8		56.1			127
	10.8 {1.10}	34.8		41.7		48.7		55.6		61.8			139
	9.9 {1.00}	38.0		45.6		53.2		60.8		67.5			152
	8.4 {0.85}	44.5		53.4		62.3		71.2		79.8			178
	7.4 {0.75}	50.8		60.9		71.1		81.2		91.4			203
	4.9 {0.49}	76.3		91.5		106.8		122.0		137.8			305

Dd (mm)	ばね定数 N/mm (kgf/mm)	自由長 ×25% 300万回 たわみ (mm)	荷重 N {kgf}	自由長 ×30% 150万回 たわみ (mm)	荷重 N {kgf}	自由長 ×35% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×40% 20万回 たわみ (mm)	荷重 N {kgf}	たわみ限界 (mm)	Catalog No.	DH (mm)	自由長 L (mm)
	90.0 {9.18}	6.3		7.5		8.8		10.0		10.9			25
	70.3 {7.17}	8.0		9.6		11.2		12.8		14.4			32
	59.2 {6.03}	9.5		11.4		13.3		15.2		16.7			38
	51.1 {5.21}	11.0		13.2		15.4		17.6		19.8			44
	44.1 {4.50}	12.8		15.3		17.9		20.4		23.5			51
	35.2 {3.59}	16.0		19.2		22.4		25.6		29.9			64
	29.6 {3.01}	19.0		22.8		26.6		30.4		35.8			76
12.5	25.3 {2.58}	22.3	563 {57.4}	26.7	675 {68.9}	31.2	788 {80.4}	35.6	900 {91.8}	42.3		25	89
	22.1 {2.25}	25.5		30.6		35.7		40.8		48.2			102
	19.6 {1.99}	28.8		34.5		40.3		46.0		54.4			115
	17.7 {1.80}	31.8		38.1		44.5		50.8		60.7			127
	16.2 {1.65}	34.8		41.7		48.7		55.6		66.1			139
	14.8 {1.50}	38.0		45.6		53.2		60.8		72.8			152
	12.6 {1.28}	44.5		53.4		62.3		71.2		85.6			178
	11.1 {1.13}	50.8		60.9		71.1		81.2		97.5			203
	9.8 {0.99}	57.3		68.7		80.2		91.6		110.5			229
	7.4 {0.75}	76.3		91.5		106.8		122.0		147.3			305
	92.1 {9.39}	9.5		11.4		13.3		15.2		16.0			38
	79.5 {8.10}	11.0		13.2		15.4		17.6		18.5			44
	68.6 {6.99}	12.8		15.3		17.9		20.4		22.1			51
	54.7 {5.57}	16.0		19.2		22.4		25.6		28.5			64
	46.1 {4.70}	19.0		22.8		26.6		30.4		34.4			76
	39.3 {4.00}	22.3		26.7		31.2		35.6		40.8			89
	34.3 {3.49}	25.5		30.6		35.7		40.8		45.8	TJL		102
	30.4 {3.10}	28.8		34.5		40.3		46.0		51.5			115
16	27.6 {2.81}	31.8	875 {89.3}	38.1	1050 {107.1}	44.5	1225 {125}	50.8	1400 {142.8}	57.6		32	127
	25.2 {2.57}	34.8		41.7		48.7		55.6		63.5			139
	23.0 {2.34}	38.0		45.6		53.2		60.8		69.2			152
	19.7 {2.00}	44.5		53.4		62.3		71.2		82.4			178
	17.2 {1.75}	50.8		60.9		71.1		81.2		94.0			203
	15.3 {1.56}	57.3		68.7		80.2		91.6		106.3			229
	13.8 {1.40}	63.5		76.2		88.9		101.6		118.2			254
	11.5 {1.17}	76.3		91.5		106.8		122.0		142.7			305
	98.0 {9.99}	12.8		15.3		17.9		20.4		20.7			51
	78.1 {7.96}	16.0		19.2		22.4		25.6		26.8			64
	65.8 {6.71}	19.0		22.8		26.6		30.4		32.2			76
	56.2 {5.73}	22.3		26.7		31.2		35.6		38.3			89
	49.0 {4.99}	25.5		30.6		35.7		40.8		43.4			102
	43.5 {4.43}	28.8		34.5		40.3		46.0		49.0			115
20	39.4 {4.01}	31.8	1250 {127.5}	38.1	1500 {153}	44.5	1750 {178.5}	50.8	2000 {204}	55.4		40	127
	36.0 {3.67}	34.8		41.7		48.7		55.6		62.8			139
	32.9 {3.35}	38.0		45.6		53.2		60.8		68.4			152
	28.1 {2.86}	44.5		53.4		62.3		71.2		80.1			178
	24.6 {2.50}	50.8		60.9		71.1		81.2		90.1			203
	21.8 {2.22}	57.3		68.7		80.2		91.6		101.3			229
	19.7 {2.00}	63.5		76.2		88.9		101.6		113.3			254
	16.4 {1.67}	76.3		91.5		106.8		122.0		136.0			305

Order

Catalog No.	DH	–	L
TJL	10	–	25

＊ 1N=0.1daN=0.102kg　1mm=0.0394in.

⚠ たわみ限界について
密着長に近いたわみになります。
参考値になりますのでご注意下さい。

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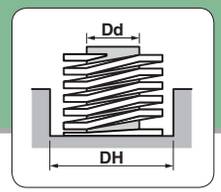
ISO ばね　軽荷重
TJL LIGHT LOADS ISO 10243

COIL SPRING



Dd (mm)	ばね定数 N/mm (kgf/mm)	自由長 ×25% 300万回 たわみ (mm)	荷重 N {kgf}	自由長 ×30% 150万回 たわみ (mm)	荷重 N {kgf}	自由長 ×35% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×40% 20万回 たわみ (mm)	荷重 N {kgf}	たわみ限界 (mm)	Catalog No.	DH (mm)	自由長 L (mm)
	156.3 {15.94}	16.0		19.2		22.4		25.6		25.7			64
	131.6 {13.42}	19.0		22.8		26.6		30.4		31.5			76
	112.4 {11.46}	22.3		26.7		31.2		35.6		37.8			89
	98.0 {9.99}	25.5		30.6		35.7		40.8		44.1			102
	87.0 {8.87}	28.8		34.5		40.3		46.0		50.4			115
	78.7 {8.02}	31.8	2500 {255}	38.1	3000 {306}	44.5	3500 {357}	50.8	4000 {408}	56.3			127
25	71.9 {7.33}	34.8		41.7		48.7		55.6		62.1		50	139
	65.8 {6.71}	38.0		45.6		53.2		60.8		68.6			152
	56.2 {5.73}	44.5		53.4		62.3		71.2		81.0			178
	49.3 {5.02}	50.8		60.9		71.1		81.2		93.1			203
	43.7 {4.45}	57.3		68.7		80.2		91.6		105.7			229
	39.4 {4.01}	63.5		76.2		88.9		101.6		117.8	TJL		254
	32.8 {3.34}	76.3		91.5		106.8		122.0		142.5			305
	197.4 {20.13}	19.0		22.8		26.6		30.4		30.8			76
	168.5 {17.18}	22.3		26.7		31.2		35.6		37.1			89
	147.1 {15.00}	25.5		30.6		35.7		40.8		41.4			102
	130.4 {13.30}	28.8		34.5		40.3		46.0		47.7			115
	118.1 {12.04}	31.8		38.1		44.5		50.8		53.6			127
	98.7 {10.06}	38.0	3750 {382.5}	45.6	4500 {459}	53.2	5250 {535.5}	60.8	6000 {612}	65.7		63	152
38	84.3 {8.59}	44.5		53.4		62.3		71.2		78.3			178
	73.9 {7.53}	50.8		60.9		71.1		81.2		90.4			203
	65.5 {6.68}	57.3		68.7		80.2		91.6		103.0			229
	59.1 {6.02}	63.5		76.2		88.9		101.6		115.2			254
	49.2 {5.01}	76.3		91.5		106.8		122.0		139.9			305

Order

Catalog No.	DH	−	L
TJL	50	−	64

＊ 1N=0.1daN=0.102kg　1mm=0.0394in.

⚠ たわみ限界について
密着長に近いたわみになります。
参考値になりますのでご注意下さい。

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