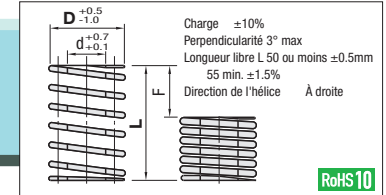


Ressort hélicoïdal

Pour déformation ultra-élevée SWY

Ressort hélicoïdal

Pour déformation ultra élevée SWU



D	d	L	Constante du ressort N/mm(kgf/mm)	F=Lx65% Fmm	Charge N(kgf)	Référence pièce Type D-L	Prix uni- taire
11	7	20	2.26(0.23)	13.0	29.4 {3.0}	SWY 11- 20	
		25	1.81(0.18)	16.3			25
		30	1.51(0.15)	19.5			30
		35	1.29(0.13)	22.8			35
		40	1.13(0.12)	26.0			40
		45	1.01(0.10)	29.3			45
		50	0.91(0.092)	32.5			50
		55	0.82(0.084)	35.8			55
		60	0.75(0.077)	39.0			60
		65	0.70(0.071)	42.3			65
70	0.65(0.066)	45.5	70				
75	0.60(0.061)	48.8	75				
80	0.57(0.058)	52.0	80				
90	0.50(0.051)	58.5	90				
100	0.45(0.046)	65.0	100				
12.5	8.5	20	3.09(0.32)	13.0	40.2 {4.1}	SWY 12.5- 20	
		25	2.47(0.25)	16.3			25
		30	2.06(0.21)	19.5			30
		35	1.77(0.18)	22.8			35
		40	1.55(0.16)	26.0			40
		45	1.37(0.14)	29.3			45
		50	1.24(0.13)	32.5			50
		55	1.12(0.11)	35.8			55
		60	1.03(0.11)	39.0			60
		65	0.95(0.10)	42.3			65
70	0.88(0.090)	45.5	70				
75	0.82(0.084)	48.8	75				
80	0.77(0.079)	52.0	80				
90	0.69(0.070)	58.5	90				
100	0.62(0.063)	65.0	100				
110	0.56(0.057)	71.5	110				
120	0.52(0.053)	78.0	120				
125	0.49(0.050)	81.3	125				
16.5	10.5	20	7.02(0.72)	13.0	91.2 {9.3}	SWY 16.5- 20	
		25	5.61(0.57)	16.3			25
		30	4.68(0.48)	19.5			30
		35	4.01(0.41)	22.8			35
		40	3.51(0.36)	26.0			40
		45	3.12(0.32)	29.3			45
		50	2.81(0.29)	32.5			50
		55	2.55(0.26)	35.8			55
		60	2.34(0.24)	39.0			60
		65	2.16(0.22)	42.3			65
70	2.00(0.20)	45.5	70				
75	1.87(0.19)	48.8	75				
80	1.75(0.18)	52.0	80				
90	1.56(0.16)	58.5	90				
100	1.40(0.14)	65.0	100				
110	1.28(0.13)	71.5	110				
120	1.17(0.12)	78.0	120				
125	1.12(0.11)	81.3	125				
150	0.94(0.10)	97.5	150				

D	d	L	Constante du ressort N/mm(kgf/mm)	F=Lx65% Fmm	Charge N(kgf)	Référence pièce Type D-L	Prix uni- taire
20.5	13.5	30	5.58(0.57)	19.5	108.9 {11.1}	SWY20.5- 30	
		35	4.78(0.49)	22.8			35
		40	4.19(0.43)	26.0			40
		45	3.72(0.38)	29.3			45
		50	3.35(0.34)	32.5			50
		55	3.04(0.31)	35.8			55
		60	2.79(0.28)	39.0			60
		65	2.58(0.26)	42.3			65
		70	2.39(0.24)	45.5			70
		75	2.23(0.23)	48.8			75
80	2.09(0.21)	52.0	80				
90	1.86(0.19)	58.5	90				
100	1.67(0.17)	65.0	100				
110	1.52(0.16)	71.5	110				
120	1.40(0.14)	78.0	120				
125	1.34(0.14)	81.3	125				
130	1.29(0.13)	84.5	130				
140	1.20(0.12)	91.0	140				
150	1.12(0.11)	97.5	150				
24.5	16.5	30	6.99(0.71)	19.5	136.3 {13.9}	SWY24.5- 30	
		35	5.99(0.61)	22.8			35
		40	5.24(0.53)	26.0			40
		45	4.66(0.48)	29.3			45
		50	4.19(0.43)	32.5			50
		55	3.81(0.39)	35.8			55
		60	3.50(0.36)	39.0			60
		65	3.23(0.33)	42.3			65
		70	3.00(0.31)	45.5			70
		75	2.80(0.29)	48.8			75
80	2.62(0.27)	52.0	80				
90	2.33(0.24)	58.5	90				
100	2.10(0.21)	65.0	100				
110	1.91(0.19)	71.5	110				
120	1.75(0.18)	78.0	120				
125	1.68(0.17)	81.3	125				
130	1.61(0.16)	84.5	130				
140	1.50(0.15)	91.0	140				
150	1.40(0.14)	97.5	150				
175	1.20(0.12)	113.8	175				
200	1.05(0.11)	130.0	200				
30	21	35	8.79(0.90)	22.8	200.1 {20.4}	SWY 30- 35	
		40	7.69(0.78)	26.0			40
		45	6.84(0.70)	29.3			45
		50	6.16(0.63)	32.5			50
		55	5.60(0.57)	35.8			55
		60	5.13(0.52)	39.0			60
		65	4.74(0.48)	42.3			65
		70	4.40(0.45)	45.5			70
		75	4.10(0.42)	48.8			75
		80	3.85(0.39)	52.0			80
90	3.42(0.35)	58.5	90				
100	3.08(0.31)	65.0	100				
110	2.80(0.29)	71.5	110				
120	2.56(0.26)	78.0	120				
125	2.46(0.25)	81.3	125				
130	2.37(0.24)	84.5	130				
140	2.20(0.22)	91.0	140				
150	2.05(0.21)	97.5	150				
160	1.92(0.20)	104.0	160				
170	1.81(0.18)	110.5	170				
175	1.76(0.18)	113.8	175				
180	1.71(0.17)	117.0	180				
190	1.62(0.17)	123.5	190				
200	1.54(0.16)	130.0	200				
250	1.23(0.13)	162.5	250				
300	1.03(0.10)	195.0	300				

D	d	L	Constante du ressort N/mm(kgf/mm)	F=Lx65% Fmm	Charge N(kgf)	Référence pièce Type D-L	Prix uni- taire
40	26	40	11.32(1.15)	26.0	294.2 {30.0}	SWY 37- 40	
		45	10.06(1.03)	29.3			45
		50	9.05(0.92)	32.5			50
		55	8.23(0.84)	35.8			55
		60	7.54(0.77)	39.0			60
		65	6.96(0.71)	42.3			65
		70	6.47(0.66)	45.5			70
		75	6.03(0.62)	48.8			75
		80	5.66(0.58)	52.0			80
		90	5.03(0.51)	58.5			90
100	4.53(0.46)	65.0	100				
110	4.11(0.42)	71.5	110				
120	3.77(0.38)	78.0	120				
130	3.48(0.36)	84.5	130				
140	3.23(0.33)	91.0	140				
150	3.02(0.31)	97.5	150				
160	2.83(0.29)	104.0	160				
170	2.66(0.27)	110.5	170				
180	2.51(0.26)	117.0	180				
190	2.38(0.24)	123.5	190				
200	2.26(0.23)	130.0	200				
225	2.01(0.21)	146.3	225				
250	1.81(0.18)	162.5	250				
300	1.51(0.15)	195.0	300				
50	31	50	12.07(1.23)	32.5	392.3 {40.0}	SWY 42- 50	
		60	10.06(1.03)	39.0			60
		70	8.62(0.88)	45.5			70
		80	7.54(0.77)	52.0			80
		90	6.71(0.68)	58.5			90
		100	6.03(0.62)	65.0			100
		110	5.49(0.56)	71.5			110
		120	5.03(0.51)	78.0			120
		130	4.64(0.47)	84.5			130
		140	4.31(0.44)	91.0			140
150	4.02(0.41)	97.5	150				
160	3.77(0.38)	104.0	160				
170	3.55(0.36)	110.5	170				
180	3.35(0.34)	117.0	180				
190	3.18(0.32)	123.5	190				
200	3.02(0.31)	130.0	200				
225	2.68(0.27)	146.3	225				
250	2.41(0.25)	162.5	250				
275	2.19(0.22)	178.8	275				
300	2.01(0.21)	195.0	300				

☺ Nombre d'utilisations : 1 million (Lx70% : 300 000)
 ☺ Utilisation des ressorts hélicoïdaux et précautions d'usage **P328**
 ☺ À propos de la dimension D et de l'orifice arrière, et de la dimension D et de l'arbre, voir **P1881**.

D	d	L	Constante du ressort N/mm(kgf/mm)	F=Lx60% Fmm	Charge N(kgf)	Référence pièce Type D-L	Prix uni- taire
10.5	6.0	15	7.63(0.78)	9.0	68.6 {7.0}	SWU10.5-15	
		20	5.72(0.58)	12.0			20
		25	4.58(0.47)	15.0			25
		30	3.81(0.39)	18.0			30
		35	3.27(0.33)	21.0			35
		40	2.86(0.29)	24.0			40
		45	2.54(0.26)	27.0			45
		50	2.29(0.23)	30.0			50
		55	2.08(0.21)	33.0			55
		60	1.91(0.19)	36.0			60
65	1.76(0.18)	39.0	65				
70	1.63(0.17)	42.0	70				
75	1.53(0.16)	45.0	75				
80	1.43(0.15)	48.0	80				
12.5	7.0	15	8.72(0.89)	9.0	78.5 {8.0}	SWU12.5-15	
		20	6.54(0.67)	12.0			20
		25	5.23(0.53)	15.0			25
		30	4.36(0.44)	18.0			30
		35	3.74(0.38)	21.0			35
		40	3.27(0.33)	24.0			40
		45	2.91(0.30)	27.0			45
		50	2.62(0.27)	30.0			50
		55	2.38(0.24)	33.0			55
		60	2.18(0.22)	36.0			60
65	2.01(0.21)	39.0	65				
70	1.87(0.19)	42.0	70				
75	1.74(0.18)	45.0	75				
80	1.63(0.17)	48.0	80				
90	1.45(0.15)	54.0	90				
100	1.31(0.13)	60.0	100				
14.5	8.5	15	10.90(1.11)	9.0	98.1 {10.0}	SWU14.5-15	
		20	8.17(0.83)	12.0			20
		25	6.54(0.67)	15.0			25
		30	5.45(0.56)	18.0			30
		35	4.67(0.48)	21.0			35
		40	4.09(0.42)	24.0			40
		45	3.63(0.37)	27.0			45
		50	3.27(0.33)	30.0			50
		55	2.97(0.30)	33.0			55
		60	2.72(0.28)	36.0			60
65	2.51(0.26)	39.0	65				
70	2.33(0.24)	42.0	70				
75	2.18(0.22)	45.0	75				
80	2.04(0.21)	48.0	80				
90	1.82(0.19)	54.0	90				
100	1.63(0.17)	60.0	100				
110	1.49(0.15)	66.0	110				
120	1.36(0.14)	72.0	120				
125	1.31(0.13)	75.0	125				
150	1.09(0.11)	90.0	150				
17	10.5	20	12.26(1.25)	12.0	147.1 {15.0}	SWU 17- 20	
		25	9.81(1.00)	15.0			25
		30	8.17(0.83)	18.0			30
		35	7.00(0.71)	21.0			35
		40	6.13(0.63)	24.0			40
		45	5.45(0.56)	27.0			45
		50	4.90(0.50)	30.0			50
		55	4.46(0.45)	33.0			55
		60	4.09(0.42)	36.0			60
		65	3.77(0.38)	39.0			65
70	3.50(0.36)	42.0	70				
75	3.27(0.33)	45.0	75				
80	3.06(0.31)	48.0	80				
90	2.72(0.28)	54.0	90				
100	2.45(0.25)	60.0	100				
110	2.23(0.23)	66.0	110				
120	2.04(0.21)	72.0	120				
125	1.96(0.20)	75.0	125				
150	1.63(0.17)	90.0	150				
175	1.40(0.14)	105.0	175				

D	d	L	Constante du ressort N/mm(kgf/mm)	F=Lx60% Fmm	Charge N(kgf)	Référence pièce Type D-L	Prix uni- taire
21	13.5	25	15.04(1.53)	15.0	225.6 {23.0}	SWU 21- 25	
		30	12.53(1.28)	18.0			30
		35	10.74(1.10)	21.0			35
		40	9.40(0.96)	24.0			40
		45	8.35(0.85)	27.0			45
		50	7.52(0.77)	30.0			50
		55	6.83(0.70)	33.0			55
		60	6.27(0.64)	36.0			60
		65	5.78(0.59)	39.0			65
		70	5.37(0.55)	42.0			70
75	5.01(0.51)	45.0	75				
80	4.70(0.48)	48.0	80				
90	4.18						