



MOLAS DE TRAÇÃO

MOLAS DE TRAÇÃO – TABELA DE DADOS

Com os códigos padronizados das molas A&RJIRE, você economiza tempo, dinheiro e seu projeto ganha vida longa, pois a reposição das molas estará garantida com estoques permanentes.

Material: Aço mola patenteado conforme DIN 17223, classe C, nº 11200 (similar a ASTM A-228).

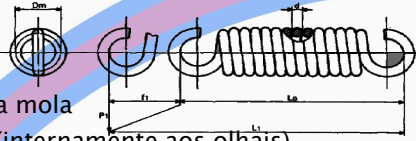
Aço inoxidável AISI 302 (similar a DIN 17224, nº 14310).

Sentido de Enrolamento: Direito

Olhais: Olhal Tipo alemão fechado em qualquer posição

Tolerâncias: Dimensões e forças DIN 2097 (grau 2)

Superfície: Oleada



d = diâmetro do arame

Dm = diâmetro médio da mola

L0 = comprimento livre (internamente aos olhais)

L1 = máximo comprimento extensível

P1 = força em L1 (para aço inoxidável multiplicar por 0,83)

C = $(P - O, 15 \cdot P1)f$ = constante da mola (para aço inoxidável multiplicar por 0,83)

d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Aço Carbono	Aço Inoxidável		
						Código	Código		
0.50	3.0	10.0	14.3	1.14	0.224	ARJ0330500610	ARJ0440500610		
		13.0	19.9			ARJ0330500616	ARJ0440500616		
		17.5	28.3			ARJ0330500625	ARJ0440500625		
		25.0	42.3			ARJ0330500640	ARJ0440500640		
		290.0	500.0			ARJ0330500699	ARJ0440500699		
	5.0	13.6	26.7	0.74	0.048	ARJ0330501010	ARJ0440501010		
		16.6	37.5			ARJ0330501016	ARJ0440501016		
		21.1	53.8			ARJ0330501025	ARJ0440501025		
		28.6	80.9			ARJ0330501040	ARJ0440501040		
		38.6	117.0			ARJ0330501060	ARJ0440501060		
	0.63	2.4	9.7	11.6	2.48	1.150	ARJ0330630410	ARJ0440630410	
			13.3	16.2			ARJ0330630416	ARJ0440630416	
			19.2	23.5			ARJ0330630425	ARJ0440630425	
			26.3	36.1			ARJ0330630610	ARJ0440630610	
		3.9	12.1	17.8	1.74	0.263	ARJ0330630616	ARJ0440630616	
			16.3	24.9			ARJ0330630616	ARJ0440630616	
21.6			34.7	ARJ0330630625			ARJ0440630625		
31.0			53.6	ARJ0330630640			ARJ0440630640		
17.3			33.9	ARJ0330631010			ARJ0440631010		
21.0			47.6	ARJ0330631016			ARJ0440631016		
6.4		26.8	68.4	1.16	0.024	ARJ0330631025	ARJ0440631025		
		36.5	102.6			ARJ0330631040	ARJ0440631040		
		48.8	148.5			ARJ0330631060	ARJ0440631060		
		13.0	15.7			3.80	1.207	ARJ0330800410	ARJ0440800410
	17.9	22.2	ARJ0330800416					ARJ0440800416	
	25.1	31.8	ARJ0330800425					ARJ0440800425	
15.8	22.2	ARJ0330800610	ARJ0440800610						
20.6	30.8	ARJ0330800616	ARJ0440800616						
27.8	43.8	ARJ0330800625	ARJ0440800625						
0.80	4.7	39.8	65.4	2.85	0.095	ARJ0330800640	ARJ0440800640		
		290.0	515.0			ARJ0330800699	ARJ0440800699		
		22.1	43.5			ARJ0330801010	ARJ0440801010		
		26.9	61.2			ARJ0330801016	ARJ0440801016		
		34.1	87.6			ARJ0330801025	ARJ0440801025		
	8.2	46.1	131.7	1.80	0.018	ARJ0330801040	ARJ0440801040		
		62.1	190.1			ARJ0330801060	ARJ0440801060		
		22.9	27.3			10.80	2.113	ARJ0331400410	ARJ0441400410
		31.3	38.3					ARJ0331400416	ARJ0441400416
		43.9	54.8					ARJ0331400425	ARJ0441400425
		28.3	39.9					ARJ0331400610	ARJ0441400610
		36.7	55.2					ARJ0331400616	ARJ0441400616
		49.3	78.2					ARJ0331400625	ARJ0441400625
		70.3	116.6					ARJ0331400640	ARJ0441400640
290.0	515.0	ARJ0331400699	ARJ0441400699						
37.3	68.5	ARJ0331401010	ARJ0441401010						
45.7	95.7	ARJ0331401016	ARJ0441401016						
58.3	136.4	ARJ0331401025	ARJ0441401025						
79.3	204.3	ARJ0331401040	ARJ0441401040						
107.4	294.4	ARJ0331401060	ARJ0441401060						

d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Aço Carbono	Aço Inoxidável	
						Código	Código	
0.90	3.6	14.7	17.7	4.70	0.358	ARJ0330900410	ARJ0440900410	
		20.1	24.8			ARJ0330900416	ARJ0440900416	
		28.2	35.6			ARJ0330900425	ARJ0440900425	
	5.4	17.9	25.3	3.50	0.402	ARJ0330900610	ARJ0440900610	
		23.3	35.2			ARJ0330900616	ARJ0440900616	
		31.4	50.0			ARJ0330900625	ARJ0440900625	
		44.9	74.6			ARJ0330900640	ARJ0440900640	
		24.6	47.7			ARJ0330901010	ARJ0440901010	
	9.1	30.0	66.9	2.27	0.084	ARJ0330901016	ARJ0440901016	
		38.1	95.7			ARJ0330901025	ARJ0440901025	
		51.6	143.8			ARJ0330901040	ARJ0440901040	
		69.6	207.6			ARJ0330901060	ARJ0440901060	
		16.4	19.6			ARJ0331000410	ARJ0441000410	
		22.4	27.6			ARJ0331000416	ARJ0441000416	
	1.00	4.0	31.4	39.5	5.75	0.604	ARJ0331000425	ARJ0441000425
			20.0	28.2			ARJ0331000610	ARJ0441000610
			26.0	39.1			ARJ0331000616	ARJ0441000616
		6.0	35.0	55.4	4.30	0.179	ARJ0331000625	ARJ0441000625
			50.0	82.7			ARJ0331000640	ARJ0441000640
			290.0	515.0			ARJ0331000699	ARJ0441000699
			27.2	52.0			ARJ0331001010	ARJ0441001010
		10.0	33.2	72.8	2.80	0.060	ARJ0331001016	ARJ0441001016
			42.2	104.1			ARJ0331001025	ARJ0441001025
			57.2	156.2			ARJ0331001040	ARJ0441001040
77.2			226.2	ARJ0331001060			ARJ0441001060	
18.0			21.5	ARJ0331100410			ARJ0441100410	
1.10	4.4	24.6	30.2	6.90	1.037	ARJ0331100416	ARJ0441100416	
		34.5	43.3			ARJ0331100425	ARJ0441100425	
		21.6	29.9			ARJ0331100610	ARJ0441100610	
	6.4	28.2	41.5	5.25	0.337	ARJ0331100616	ARJ0441100616	
		38.1	58.9			ARJ0331100625	ARJ0441100625	
		54.7	87.8			ARJ0331100640	ARJ0441100640	
	10.9	29.7	56.1	3.40	0.109	ARJ0331101010	ARJ0441101010	
		36.3	78.6			ARJ0331101016	ARJ0441101016	
		46.2	112.3			ARJ0331101025	ARJ0441101025	
		62.7	168.7			ARJ0331101040	ARJ0441101040	
		84.7	243.7			ARJ0331101060	ARJ0441101060	
	1.20	4.8	19.7	23.5	8.10	1.810	ARJ0331200410	ARJ0441200410
26.9			33.0	ARJ0331200416			ARJ0441200416	
37.7			47.2	ARJ0331200425			ARJ0441200425	
7.3		24.2	33.6	5.90	0.515	ARJ0331200610	ARJ0441200610	
		31.4	46.7			ARJ0331200616	ARJ0441200616	
		42.2	66.3			ARJ0331200625	ARJ0441200625	
		60.2	99.3			ARJ0331200640	ARJ0441200640	
		290.0	515.0			ARJ0331200699	ARJ0441200699	
11.8		32.3	60.1	4.00	0.122	ARJ0331201010	ARJ0441201010	
		39.5	84.1			ARJ0331201016	ARJ0441201016	
		50.3	120.0			ARJ0331201025	ARJ0441201025	
		68.3	180.3			ARJ0331201040	ARJ0441201040	
	92.3	260.3	ARJ0331201060			ARJ0441201060		
	22.9	27.3	ARJ0331400410			ARJ0441400410		
5.6	31.3	38.3	10.80	1.320	ARJ0331400416	ARJ0441400416		
	43.9	54.8			ARJ0331400425	ARJ0441400425		
	28.3	39.9			ARJ0331400610	ARJ0441400610		
	36.7	55.2			ARJ0331400616	ARJ0441400616		
	49.3	78.2			ARJ0331400625	ARJ0441400625		
	70.3	116.6			ARJ0331400640	ARJ0441400640		
	290.0	515.0			ARJ0331400699	ARJ0441400699		
	37.3	68.5			ARJ0331401010	ARJ0441401010		
	45.7	95.7			ARJ0331401016	ARJ0441401016		
13.6	58.3	136.4	54.0	0.059	ARJ0331401025	ARJ0441401025		
	79.3	204.3			ARJ0331401040	ARJ0441401040		
	107.4	294.4			ARJ0331401060	ARJ0441401060		



MOLAS DE TRACÇÃO

d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Aço Carbono	Aço Inoxidável	d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Aço Carbono	Aço Inoxidável					
						Código	Código							Código	Código					
1.60	6.4	25.5	30.4	15.00	2.408	ARJ0331600410	ARJ0441600410	2.80	11.2	87.9	107.0	37.90	1.690	ARJ0332800425	ARJ0442800425					
		35.7	43.5		1.507	ARJ0331600416	ARJ0441600416			56.7	77.0		1.167	ARJ0332800610	ARJ0442800610					
		50.3	62.5		0.967	ARJ0331600425	ARJ0441600425			73.7	106.1		0.729	ARJ0332800616	ARJ0442800616					
	9.4	31.6	43.3	10.50	0.762	ARJ0331600610	ARJ0441600610		17.2	98.7	149.3	27.80	0.467	ARJ0332800625	ARJ0442800625					
		41.2	59.9		0.476	ARJ0331600616	ARJ0441600616			141.0	222.0		0.292	ARJ0332800640	ARJ0442800640					
		55.6	84.9		0.305	ARJ0331600625	ARJ0441600625			74.7	129.4		0.295	ARJ0332801010	ARJ0442801010					
	15.4	7.2	79.6	126.4	7.00	0.191	ARJ0331600640	ARJ0441600640	27.2	91.5	197.1	19.00	0.184	ARJ0332801016	ARJ0442801016					
			42.4	76.9		0.173	ARJ0331601010	ARJ0441601010		116.9	254.0		0.118	ARJ0332801025	ARJ0442801025					
			52.0	106.8		0.108	ARJ0331601016	ARJ0441601016		158.9	378.0		0.074	ARJ0332801040	ARJ0442801040					
		10.2	66.5	152.0	0.069	ARJ0331601025	ARJ0441601025	12.8	214.9	543.0	48.30	0.049	ARJ0332801060	ARJ0442801060						
			90.5	227.5	0.044	ARJ0331601040	ARJ0441601040		52.5	61.0		4.829	ARJ033200410	ARJ0443200410						
			122.7	327.8	0.028	ARJ0331601060	ARJ0441601060		71.7	85.3		3.018	ARJ033200416	ARJ0443200416						
	1.80	7.2	29.4	34.8	17.00	2.716	ARJ0331800410	ARJ0441800410	3.20	18.8	100.5	121.8	36.60	1.932	ARJ0333200425	ARJ0443200425				
			40.2	48.8		1.698	ARJ0331800416	ARJ0441800416			63.3	83.8		1.524	ARJ0333200610	ARJ0443200610				
			56.4	69.8		1.087	ARJ0331800425	ARJ0441800425			82.5	115.2		0.953	ARJ0333200616	ARJ0443200616				
		10.2	34.9	46.8	13.40	0.955	ARJ0331800610	ARJ0441800610		32.8	111.1	162.2	23.00	0.609	ARJ0333200625	ARJ0443200625				
			45.7	64.7		0.597	ARJ0331800616	ARJ0441800616			88.5	157.0		0.287	ARJ0333201010	ARJ0443201010				
			61.9	91.8		0.382	ARJ0331800625	ARJ0441800625			108.0	217.0		0.179	ARJ0333201016	ARJ0443201016				
18.2		88.9	136.5	8.20	0.239	ARJ0331800640	ARJ0441800640	14.4	137.0	308.0	59.70	0.115	ARJ0333201025	ARJ0443201025						
		290.0	471.0		0.063	ARJ0331800699	ARJ0441800699		185.0	459.0		0.072	ARJ0333201040	ARJ0443201040						
		49.3	91.2		0.168	ARJ0331801010	ARJ0441801010		249.0	659.0		0.048	ARJ0333201060	ARJ0443201060						
2.00		8.0	60.1	127.1	20.80	0.105	ARJ0331801016	ARJ0441801016	3.60	21.4	59.0	68.5	44.80	5.432	ARJ0333600410	ARJ0443600410				
			76.3	181.3		0.067	ARJ0331801025	ARJ0441801025			80.6	95.5		3.495	ARJ0333600416	ARJ0443600416				
			103.3	270.3		0.042	ARJ0331801040	ARJ0441801040			113.1	136.5		2.173	ARJ0333600425	ARJ0443600425				
	12.0	139.3	390.3	15.50	0.028	ARJ0331801060	ARJ0441801060	36.4		71.7	94.7	28.80	1.655	ARJ0333600610	ARJ0443600610					
		32.8	38.7		3.018	ARJ0332000410	ARJ0442000410			93.3	130.0		1.034	ARJ0333600616	ARJ0443600616					
		44.8	54.2		1.886	ARJ0332000416	ARJ0442000416			125.6	183.2		0.662	ARJ0333600625	ARJ0443600625					
	20.0	62.8	77.4	10.10	1.207	ARJ0332000425	ARJ0442000425	21.4	179.6	271.7	28.80	0.414	ARJ0333600640	ARJ0443600640						
		40.0	54.7		0.894	ARJ0332000610	ARJ0442000610		98.7	171.5		0.336	ARJ0333601010	ARJ0443601010						
		52.0	75.6		0.559	ARJ0332000616	ARJ0442000616		120.6	237.5		0.210	ARJ0333601016	ARJ0443601016						
		70.0	106.9		0.358	ARJ0332000625	ARJ0442000625		152.6	334.5		0.134	ARJ0333601025	ARJ0443601025						
		100.0	159.0		0.224	ARJ0332000640	ARJ0442000640		206.6	498.5		0.084	ARJ0333601040	ARJ0443601040						
		54.4	99.1		0.193	ARJ0332001010	ARJ0442001010		278.6	715.5		0.056	ARJ0333601060	ARJ0443601060						
	2.20	8.8	66.4	137.9	24.5	0.121	ARJ0332001016	ARJ0442001016	1.00	6.0	4.4	7.6	0.700	0.700	ARJ 07 040 05 00	ARJ 08 8 040 05 00				
			84.4	196.4		0.077	ARJ0332001025	ARJ0442001025			3.0	2.1		3.9	0.700	ARJ 07 040 07 00	ARJ 08 8 040 07 00			
			114.6	293.6		0.048	ARJ0332001040	ARJ0442001040			3.0	2.0		4.0	0.700	ARJ 07 050 06 00	ARJ 08 8 050 06 00			
		12.8	154.6	422.6	18.80	0.032	ARJ0332001060	ARJ0442001060		0.50	5.0	4.0	0.600	6.0	6.0	0.600	ARJ 07 050 10 00	ARJ 08 8 050 10 00		
			36.1	42.4		3.320	ARJ0332000410	ARJ0442000410			0.63	3.9		2.7	0.500	5.1	5.1	0.500	ARJ 07 063 06 00	ARJ 08 8 063 06 00
			49.3	59.4		2.075	ARJ0332000416	ARJ0442000416				6.4		5.3		7.6	0.500	ARJ 07 063 10 00	ARJ 08 8 063 10 00	
69.1		84.9	1.328	ARJ0332000425	ARJ0442000425	4.7	3.3	6.1	0.500	ARJ 07 080 06 00		ARJ 08 8 080 06 00								
21.8		43.3	58.1	12.00	1.079	ARJ0332000610	ARJ0442000610	0.80	8.2	6.9	0.800	9.6	9.6	0.800	ARJ 07 080 10 00	ARJ 08 8 080 10 00				
		56.5	80.2		0.674	ARJ0332000616	ARJ0442000616		1.20	6.0		4.4	0.700	7.6	7.6	0.700	ARJ 07 100 06 00	ARJ 08 8 100 06 00		
		76.3	113.3		0.432	ARJ0332000625	ARJ0442000625			10.0		8.4		11.6	0.700	ARJ 07 100 10 00	ARJ 08 8 100 10 00			
109.1		168.3	0.270	ARJ0332000640	ARJ0442000640	7.3	5.5	9.1		0.700	ARJ 07 120 06 00	ARJ 08 8 120 06 00								
2.50		10.5	59.5	106.6	30.00	0.218	ARJ033201010	ARJ0442201010	1.60	11.8	10.0	0.600	13.6	13.6	0.600	ARJ 07 120 10 00	ARJ 08 8 120 10 00			
	72.7		148.0	0.136		ARJ033201016	ARJ0442201016	2.00		9.4	7.2		0.800	11.6	11.6	0.800	ARJ 07 160 06 00	ARJ 08 8 160 06 00		
	92.5		210.5	0.087		ARJ033201025	ARJ0442201025			15.4	13.2			17.6	0.800	ARJ 07 160 10 00	ARJ 08 8 160 10 00			
	126.0	314.0	0.055	ARJ033201040	ARJ0442201040	2.20	12.0			9.4	0.600	14.6		14.6	0.600	ARJ 07 200 06 00	ARJ 08 8 200 06 00			
	170.0	452.0	0.036	ARJ033201060	ARJ0442201060		20.0	17.4		22.6		0.600	ARJ 07 200 10 00	ARJ 08 8 200 10 00						
	41.9	49.7	3.259	ARJ0332500410	ARJ0442500410		2.50	12.8		10.0		0.500	15.6	15.6	0.500	ARJ 07 220 06 00	ARJ 08 8 220 06 00			
	56.9	69.4	2.037	ARJ0332500416	ARJ0442500416	2.80		21.8	19.0	0.400	24.6		24.6	0.400	ARJ 07 220 10 00	ARJ 08 8 220 10 00				
	79.4	99.0	1.303	ARJ0332500425	ARJ0442500425			3.20	15.5		12.3		0.300	18.7	18.7	0.300	ARJ 07 250 06 00	ARJ 08 8 250 06 00		
	50.9	69.8	1.031	ARJ0332500610	ARJ0442500610		2.50		25.5		22.3	0.200		28.7	28.7	0.200	ARJ 07 250 10 00	ARJ 08 8 250 10 00		
	65.9	96.2	0.633	ARJ0332500616	ARJ0442500616	2.80			17.2	13.7	0.150			20.7	20.7	0.150	ARJ 07 280 06 00	ARJ 08 8 280 06 00		
	88.4	135.7	0.405	ARJ0332500625	ARJ0442500625			3.20	27.2	23.7			0.100	30.7	30.7	0.100	ARJ 07 280 10 00	ARJ 08 8 280 10 00		
	125.6	201.3	0.253	ARJ0332500640	ARJ0442500640		2.80		18.8	14.9		0.080		22.7	22.7	0.080	ARJ 07 320 06 00	ARJ 08 8 320 06 00		
68.9	124.5	0.228	ARJ0332501010	ARJ0442501010	3.20	32.8			28.9	0.050	36.7			36.7	0.050	ARJ 07 320 10 00	ARJ 08 8 320 10 00			
83.9	172.8	0.142	ARJ0332501016	ARJ0442501016		2.80		11.2	87.9		37.90		1.690	ARJ0332800425	ARJ0442800425					
106.6	245.6	0.091	ARJ0332501025	ARJ0442501025			17.2	106.1	27.80			0.729	ARJ0332800616	ARJ0442800616						
143.6	365.6	0.057	ARJ0332501040	ARJ0442501040	27.2		149.3	19.00	0.184	ARJ0332801016		ARJ0442801016								
2.80	11.2	45.9	53.5	37.90	4.225	ARJ0332800410	ARJ0442800410	2.80	11.2	87.9	107.0	37.90	1.690	ARJ0332800425	ARJ0442800425					
		62.7	74.9		2.641	ARJ0332800416	ARJ0442800416			17.2	149.3		19.00	0.184	ARJ0332801016	ARJ0442801016				
		93.6	106.8		1.716	ARJ0332800425	ARJ0442800425			27.2	254.0		19.00	0.118	ARJ0332801025	ARJ0442801025				

MOLA DE TRACÇÃO EM METRO

d (mm)	Dm (mm)	Diâmetro (mm)		Aço Carbono	Aço Inoxidável
		eixo	furo		
0.40	2.0	1.1	2.9	ARJ 07 040 05 00	ARJ 08 8 040 05 00
		2.1	3.9		
0.50	3.0	2.0	4.0	ARJ 07 050 06 00	ARJ 08 8 050 06 00
		4.0	6.0		
0.63	3.9	2.7	5.1	ARJ 07 063 06 00	ARJ 08 8 063 06 00
		5.3	7.6		
0.80	4.7	3.3	6.1	ARJ 07 080 06 00	ARJ 08 8 080 06 00
		6.9	9.6		
1.00	6.0	4.4	7.6	ARJ 07 100 06 00	ARJ 08 8 100 06 00
		8.4	11.6		
1.20	7.3	5.5	9.1	ARJ 07 120 06 00	ARJ 08 8 120 06 00
		10.0	13.6		