



MOLAS DE COMPRESSÃO

MOLAS DE COMPRESSÃO – 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, n° 11200 (similar a ASTM A-228).

Aço inoxidável AISI 302 (similar a DIN 17224, n° 14310).

Sentido de Enrolamento: Direito.

Extremidades: Diâmetro do arame até 0,8 mm: em esquadro e não retificadas. Diâmetro do arame acima de 0,8 mm: em esquadro e retificadas.

Tolerâncias: Dimensões e forças ref. DIN 2095 (grau 2).

Superfície: Oleada.

d = diâmetro do arame

Dm = diâmetro médio da mola

Lo = comprimento livre

L1 = comprimento mínimo de trabalho

P1 = força da mola em L1 (aço inox multiplicar por 0,83)

C = P / f = constante da mola (para aço inox multiplicar por 0,83)

A furo = diâmetro mínimo do furo para montagem da mola

E eixo = diâmetro máximo do eixo para montagem da mola.

d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Diâmetro (mm)		Aço Carbono		Aço Inoxidável	
						eixo	furo	Código	Código	Código	Código
0.25	2.0	3.9	2.0	0.26	0.135	1.5	2.6	ARJ0110250803	ARJ0220250803		
		5.6	2.6		0.086			ARJ0110250805	ARJ0220250805		
		8.3	3.6		0.055			ARJ0110250808	ARJ0220250808		
		11.8	5.0		0.038			ARJ0110250812	ARJ0220250812		
		17.4	7.0		0.025			ARJ0110250818	ARJ0220250818		
	2.5	5.2	2.0	0.069	ARJ0110251003	ARJ0220251003					
		7.6	2.6	0.044	ARJ0110251005	ARJ0220251005					
		11.4	3.6	0.022	ARJ0110251008	ARJ0220251008					
		16.6	5.0	0.019	ARJ0110251012	ARJ0220251012					
		23.9	8.0	0.013	ARJ0110251018	ARJ0220251018					
	3.2	7.1	2.0	0.033	ARJ0110251203	ARJ0220251203					
		10.9	2.8	0.021	ARJ0110251205	ARJ0220251205					
		16.0	3.8	0.017	ARJ0110251208	ARJ0220251208					
		24.2	6.0	0.009	ARJ0110251212	ARJ0220251212					
		35.8	7.5	0.006	ARJ0110251218	ARJ0220251218					
0.32	1.6	3.4	2.5	0.62	0.706	1.0	2.2	ARJ0110320503	ARJ0220320503		
		4.7	3.3		0.450			ARJ0110320505	ARJ0220320505		
		6.7	4.6		0.291			ARJ0110320508	ARJ0220320508		
		9.1	6.0		0.198			ARJ0110320512	ARJ0220320512		
		13.4	8.8		0.134			ARJ0110320518	ARJ0220320518		
	2.0	3.9	2.5	0.362	ARJ0110320603	ARJ0220320603					
		5.6	3.2	0.230	ARJ0110320605	ARJ0220320605					
		8.1	4.6	0.149	ARJ0110320608	ARJ0220320608					
		11.2	6.0	0.101	ARJ0110320612	ARJ0220320612					
		16.6	8.8	0.068	ARJ0110320618	ARJ0220320618					
	2.5	4.9	2.5	0.185	ARJ0110320803	ARJ0220320803					
		7.0	3.3	0.118	ARJ0110320805	ARJ0220320805					
		10.4	4.6	0.076	ARJ0110320808	ARJ0220320808					
		14.5	6.1	0.052	ARJ0110320812	ARJ0220320812					

d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Diâmetro (mm)		Aço Carbono		Aço Inoxidável	
						eixo	furo	Código	Código	Código	Código
0.32	2.5	20.9	8.8	0.44	0.035	1.9	3.1	ARJ0110320818	ARJ0220320818		
		6.6	2.5		0.088			ARJ0110321003	ARJ0220321003		
		9.7	3.3		0.056			ARJ0110321005	ARJ0220321005		
		14.6	4.6		0.036			ARJ0110321008	ARJ0220321008		
		20.7	6.3		0.025			ARJ0110321012	ARJ0220321012		
	3.2	30.0	8.9	0.36	0.017	2.4	4.0	ARJ0110321018	ARJ0220321018		
		9.0	2.6		0.045			ARJ0110321203	ARJ0220321203		
		13.5	3.5		0.029			ARJ0110321205	ARJ0220321205		
		19.8	4.6		0.019			ARJ0110321208	ARJ0220321208		
		29.0	6.7		0.013			ARJ0110321212	ARJ0220321212		
	4.0	41.7	9.5	0.29	0.009	3.2	4.8	ARJ0110321218	ARJ0220321218		
		3.7	2.9		0.883			ARJ0110400503	ARJ0220400503		
		5.1	3.8		0.562			ARJ0110400505	ARJ0220400505		
		7.0	5.1		0.364			ARJ0110400508	ARJ0220400508		
		10.0	7.2		0.247			ARJ0110400512	ARJ0220400512		
0.40	2.0	14.1	9.9	0.70	0.167	1.3	2.8	ARJ0110400518	ARJ0220400518		
		4.4	2.9		0.452			ARJ0110400603	ARJ0220400603		
		6.3	3.9		0.288			ARJ0110400605	ARJ0220400605		
		9.1	5.4		0.186			ARJ0110400608	ARJ0220400608		
		12.9	7.5		0.126			ARJ0110400612	ARJ0220400612		
	2.5	18.5	10.6	0.68	0.085	1.8	3.3	ARJ0110400618	ARJ0220400618		
		5.8	3.0		0.215			ARJ0110400803	ARJ0220400803		
		8.4	4.0		0.137			ARJ0110400805	ARJ0220400805		
		12.3	5.5		0.089			ARJ0110400808	ARJ0220400808		
		17.5	7.5		0.061			ARJ0110400812	ARJ0220400812		
	3.2	25.5	10.7	0.60	0.041	2.5	4.0	ARJ0110400818	ARJ0220400818		
		7.5	3.0		0.110			ARJ0110401003	ARJ0220401003		
		11.2	4.1		0.070			ARJ0110401005	ARJ0220401005		
		16.3	5.8		0.045			ARJ0110401008	ARJ0220401008		
		24.4	8.0		0.031			ARJ0110401012	ARJ0220401012		
4.0	35.3	11.4	0.50	0.021	3.2	5.0	ARJ0110401018	ARJ0220401018			
	10.5	3.2		0.057			ARJ0110401203	ARJ0220401203			
	16.0	4.5		0.036			ARJ0110401205	ARJ0220401205			
	23.8	6.4		0.024			ARJ0110401208	ARJ0220401208			
	34.6	9.0		0.016			ARJ0110401212	ARJ0220401212			
5.0	52.4	12.8	0.41	0.010	4.1	6.0	ARJ0110401218	ARJ0220401218			
	4.6	3.7		1.104			ARJ0110500503	ARJ0220500503			
	6.1	4.7		0.702			ARJ0110500505	ARJ0220500505			
	8.7	6.5		0.444			ARJ0110500508	ARJ0220500508			
	11.9	9.0		0.302			ARJ0110500512	ARJ0220500512			
2.5	17.6	12.8	0.98	0.204	1.7	3.4	ARJ0110500518	ARJ0220500518			
	5.5	3.7		0.526			ARJ0110500603	ARJ0220500603			
	8.1	5.1		0.335			ARJ0110500605	ARJ0220500605			
	11.7	7.1		0.217			ARJ0110500608	ARJ0220500608			
	16.2	9.8		0.147			ARJ0110500612	ARJ0220500612			
3.2	23.5	14.0	0.95	0.100	2.4	4.1	ARJ0110500618	ARJ0220500618			
	7.0	3.7		0.269			ARJ0110500803	ARJ0220500803			
	10.4	5.1		0.171			ARJ0110500805	ARJ0220500805			
	15.0	7.1		0.088			ARJ0110500808	ARJ0220500808			
	21.5	9.8		0.075			ARJ0110500812	ARJ0220500812			
4.0	31.2	14.0	0.88	0.051	3.2	5.0	ARJ0110500818	ARJ0220500818			
	9.6	3.9		0.138			ARJ0110501003	ARJ0220501003			
	14.2	5.4		0.088			ARJ0110501005	ARJ0220501005			
	21.1	7.6		0.057			ARJ0110501008	ARJ0220501008			
	30.3	10.6		0.039			ARJ0110501012	ARJ0220501012			
5.0	44.3	15.1	0.76	0.029	4.0	6.2	ARJ0110501018	ARJ0220501018			
	13.3	4.4		0.069			ARJ0110501203	ARJ0220501203			
	20.0	6.2		0.044			ARJ0110501205	ARJ0220501205			
	30.8	8.7		0.028			ARJ0110501208	ARJ0220501208			
	44.8	12.2		0.019			ARJ0110501212	ARJ0220501212			
6.3	65.0	17.4	0.62	0.013	5.3	7.5	ARJ0110501218	ARJ0220501218			
	5.9	4.4		1.327			ARJ0110630503	ARJ0220630503			
	8.1	5.7		0.844			ARJ0110630505	ARJ0220630505			
	11.4	7.7		0.546			ARJ0110630508	ARJ0220630508			
	15.7	10.3		0.371			ARJ0110630512	ARJ0220630512			
0.63	3.2	22.7	14.7	2.00	0.251	2.3	4.2	ARJ0110630518	ARJ0220630518		



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d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Diâmetro (mm)		Aço Carbono		Aço Inoxidável		d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Diâmetro (mm)		Aço Carbono		Aço Inoxidável	
						eixo	furo	Código		Código								eixo	furo	Código		Código	
0.63	4.0	7.0	4.4	1.63	0.679	3.0	5.0	ARJ0110630603	ARJ0220630603	2.10	0.090	10.8	14.4	ARJ0111001205	ARJ0221001205	1.00	12.5	36.7	13.4	10.8	14.4	ARJ0111001205	ARJ0221001205
		9.6	5.8		0.432			ARJ0110630605	ARJ0220630605					0.058	ARJ0111001208			ARJ0221001208					
		14.0	8.2		0.280			ARJ0110630608	ARJ0220630608					0.040	ARJ0111001212			ARJ0221001212					
		20.0	11.3		0.190			ARJ0110630612	ARJ0220630612					0.027	ARJ0111001218			ARJ0221001218					
		29.0	16.2		0.128			ARJ0110630618	ARJ0220630618														
	5.0	8.7	4.5	1.47	0.348	3.9	6.1	ARJ0110630803	ARJ0220630803	12.60	2.694	4.7	8.1	ARJ0111250503	ARJ0221250503	6.3	8.0	12.2	7.5	6.1	9.6	ARJ0111250503	ARJ0221250503
		12.5	5.8		0.221			ARJ0110630805	ARJ0220630805					1.714	ARJ0111250505			ARJ0221250505					
		18.2	8.2		0.143			ARJ0110630808	ARJ0220630808					1.109	ARJ0111250508			ARJ0221250508					
		26.0	11.3		0.097			ARJ0110630812	ARJ0220630812					0.754	ARJ0111250512			ARJ0221250512					
		38.5	16.2		0.066			ARJ0110630818	ARJ0220630818					0.510	ARJ0111250518			ARJ0221250518					
	6.3	11.4	4.6	1.18	0.174	5.0	7.6	ARJ0110631003	ARJ0220631003	9.90	1.316	6.1	9.6	ARJ0111250603	ARJ0221250603	8.0	10.0	15.0	7.5	8.2	11.9	ARJ0111250603	ARJ0221250603
		16.8	6.2		0.111			ARJ0110631005	ARJ0220631005					0.837	ARJ0111250605			ARJ0221250605					
		25.3	8.9		0.072			ARJ0110631008	ARJ0220631008					0.542	ARJ0111250608			ARJ0221250608					
		36.0	12.3		0.049			ARJ0110631012	ARJ0220631012					0.368	ARJ0111250612			ARJ0221250612					
		53.4	17.7		0.033			ARJ0110631018	ARJ0220631018					0.249	ARJ0111250618			ARJ0221250618					
	8.0	16.3	5.1	0.95	0.085	6.8	9.4	ARJ0110631203	ARJ0220631203	8.10	0.674	8.2	11.9	ARJ0111250803	ARJ0221250803	1.25	10.0	19.7	7.7	8.2	11.9	ARJ0111250803	ARJ0221250803
		24.7	7.1		0.054			ARJ0110631205	ARJ0220631205					0.429	ARJ0111250805			ARJ0221250805					
		37.3	10.2		0.035			ARJ0110631208	ARJ0220631208					0.277	ARJ0111250808			ARJ0221250808					
		53.9	14.3		0.024			ARJ0110631212	ARJ0220631212					0.189	ARJ0111250812			ARJ0221250812					
		80.0	20.6		0.016			ARJ0110631218	ARJ0220631218					0.127	ARJ0111250818			ARJ0221250818					
0.80	4.0	7.4	5.7	3.00	1.766	2.8	5.3	ARJ0110800503	ARJ0220800503	6.50	0.219	10.6	14.6	ARJ0111251003	ARJ0221251003	12.5	12.5	27.0	8.2	10.6	14.6	ARJ0111251003	ARJ0221251003
		10.2	7.8		1.124			ARJ0110800505	ARJ0220800505					0.345	ARJ0111251005			ARJ0221251005					
		14.1	10.2		0.727			ARJ0110800508	ARJ0220800508					0.219	ARJ0111251008			ARJ0221251008					
		18.6	13.5		0.494			ARJ0110800512	ARJ0220800512					0.142	ARJ0111251012			ARJ0221251012					
		28.0	19.1		0.334			ARJ0110800518	ARJ0220800518					0.097	ARJ0111251018			ARJ0221251018					
	5.0	8.5	5.7	2.50	0.904	3.8	6.3	ARJ0110800603	ARJ0220800603	5.10	0.105	14.1	18.2	ARJ0111251203	ARJ0221251203	16.0	16.0	40.2	9.1	14.1	18.2	ARJ0111251203	ARJ0221251203
		12.0	7.6		0.575			ARJ0110800605	ARJ0220800605					0.068	ARJ0111251205			ARJ0221251205					
		17.4	10.9		0.372			ARJ0110800608	ARJ0220800608					0.046	ARJ0111251208			ARJ0221251208					
		25.0	15.1		0.253			ARJ0110800612	ARJ0220800612					0.031	ARJ0111251212			ARJ0221251212					
		36.1	21.5		0.171			ARJ0110800618	ARJ0220800618					0.031	ARJ0111251218			ARJ0221251218					
	6.3	10.8	5.7	2.30	0.452	5.0	7.7	ARJ0110800803	ARJ0220800803	20.10	3.651	5.9	10.1	ARJ0111600503	ARJ0221600503	8.0	8.0	15.0	9.5	5.9	10.1	ARJ0111600503	ARJ0221600503
		15.7	7.9		0.288			ARJ0110800805	ARJ0220800805					2.256	ARJ0111600505			ARJ0221600505					
		23.3	11.6		0.186			ARJ0110800808	ARJ0220800808					1.475	ARJ0111600508			ARJ0221600508					
		33.2	15.6		0.127			ARJ0110800812	ARJ0220800812					0.994	ARJ0111600512			ARJ0221600512					
		48.2	21.5		0.086			ARJ0110800818	ARJ0220800818					0.663	ARJ0111600518			ARJ0221600518					
	8.0	14.7	6.1	1.90	0.221	6.6	9.6	ARJ0110801003	ARJ0220801003	16.10	1.767	7.9	12.1	ARJ0111600603	ARJ0221600603	1.60	12.5	18.8	9.7	10.0	14.7	ARJ0111600603	ARJ0221600603
		22.0	9.0		0.140			ARJ0110801005	ARJ0220801005					1.165	ARJ0111600605			ARJ0221600605					
		32.9	13.5		0.091			ARJ0110801008	ARJ0220801008					0.744	ARJ0111600608			ARJ0221600608					
		47.3	17.5		0.062			ARJ0110801012	ARJ0220801012					0.503	ARJ0111600612			ARJ0221600612					
		69.0	23.8		0.042			ARJ0110801018	ARJ0220801018					0.341	ARJ0111600618			ARJ0221600618					
10.0	20.2	6.9	1.50	0.113	8.6	11.6	ARJ0110801203	ARJ0220801203	12.80	0.916	10.0	14.7	ARJ0111600803	ARJ0221600803	1.60	12.5	24.0	10.0	10.0	14.7	ARJ0111600803	ARJ0221600803	
	30.6	9.8		0.072			ARJ0110801205	ARJ0220801205					0.586	ARJ0111600805			ARJ0221600805						
	46.2	14.3		0.047			ARJ0110801208	ARJ0220801208					0.384	ARJ0111600808			ARJ0221600808						
	66.4	19.9		0.032			ARJ0110801212	ARJ0220801212					0.257	ARJ0111600812			ARJ0221600812						
	100.0	28.5		0.021			ARJ0110801218	ARJ0220801218					0.176	ARJ0111600818			ARJ0221600818						
1.00	5.0	8.5	6.6	4.10	2.207	3.6	6.5	ARJ0111000503	ARJ0221000503	10.00	0.436	13.7	18.3	ARJ0111601003	ARJ0221601003	16.0	16.0	33.0	11.0	13.7	18.3	ARJ0111601003	ARJ0221601003
		11.9	9.0		1.405			ARJ0111000505	ARJ0221000505					0.279	ARJ0111601005			ARJ0221601005					
		17.1	12.6		0.909			ARJ0111000508	ARJ0221000508					0.182	ARJ0111601008			ARJ0221601008					
		24.0	17.4		0.618			ARJ0111000512	ARJ0221000512					0.124	ARJ0111601012			ARJ0221601012					
		34.4	24.6		0.418			ARJ0111000518	ARJ0221000518					0.083	ARJ0111601018			ARJ0221601018					
	6.3	10.2	7.3	3.20	1.104	4.9	7.8	ARJ0111000603	ARJ0221000603	8.00	0.916	17.5	22.5	ARJ0111601203	ARJ0221601203	20.0	20.0	48.0	12.4	17.5	22.5	ARJ0111601203	ARJ0221601203
		14.7	10.1		0.702			ARJ0111000605	ARJ0221000605					0.226	ARJ0111601205			ARJ0221601205					
		21.3	14.3		0.454			ARJ0111000608	ARJ0221000608					0.144	ARJ0111601208			ARJ0221601208					
		30.2	19.9		0.309			ARJ0111000612	ARJ0221000612					0.093	ARJ0111601212			ARJ0221601212					
		43.6	28.3		0.209			ARJ0111000618	ARJ0221000618					0.063	ARJ0111601218			ARJ0221601218					
	8.00	12.9	7.3	3.00	0.539	6.5	9.6	ARJ0111000803	ARJ0221000803	30.00	4.515	7.5	12.5	ARJ0112000503	ARJ0222000503	10.0	10.0	18.8	12.0	7.5	12.5	ARJ0112000503	ARJ0222000503
		18.8	10.8		0.343			ARJ0111000805	ARJ0221000805					2.809	ARJ0112000505			ARJ0222000505					
		27.8	14.3		0.222			ARJ0111000808	ARJ0221000808					1.818	ARJ0112000508			ARJ0222000508					
		39.7	19.9		0.151			ARJ0111000812	ARJ0221000812					1.236	ARJ0112000512			ARJ0222000512					
		57.7	28.3		0.102			ARJ0111000818	ARJ0221000818					0.835	ARJ0112000518			ARJ0222000518					
	10.0	17.4	8.0	2.60	0.276	8.4	11.8	ARJ0111001003	ARJ0221001003	24.00	2.260	9.9	15.1	ARJ0112000603	ARJ0222000603	12.5	12.5	23.3	12.2	9.9	15.1	ARJ0112000603	ARJ0222000603
		26.0	11.3		0.176			ARJ0111001005	ARJ0221001005					1.438	ARJ0112000605			ARJ0222000605					
		38.8	16.0		0.144			ARJ0111001008	ARJ0221001008					0.931	ARJ0112000608			ARJ0222000608					
		56.1	22.4		0.077			ARJ0111001012	ARJ0221001012					0.633	ARJ0112000612			ARJ0222000612					
		82.0	32.0		0.052			ARJ0111001018	ARJ0221001018					0.428	ARJ0112000618			ARJ0222000618					
12.5	24.3	9.4	2.10	0.141	10.8	14.4	ARJ0111001203	ARJ0221001203	18.80	1.078	13.4	18.6	ARJ0112000803	ARJ0222000803	16.0	16.0	44.9	17.7	13.4	18.6	ARJ0112000805	ARJ0222000805	



MOLAS DE COMPRESSÃO

d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Diâmetro (mm)		Aço Carbono		Aço Inoxidável		d (mm)	Dm (mm)	L0 (mm)	L1 (mm)	P1 (kgf)	C (kgf/mm)	Diâmetro (mm)		Aço Carbono		Aço Inoxidável			
						eixo	furo	Código	Código	eixo	furo							Código	Código						
2.00	16.0	66.0	25.5	18.80	0.444	13.4	18.6	ARJ0112000808	ARJ0222000808	43.70	21.1	28.9	41.0	19.1	43.70	1.852	ARJ0113200803	ARJ0223200803	21.1	28.9	63.4	26.3	ARJ0113200805	ARJ0223200805	
		94.5	35.9		0.302			ARJ0112000812	ARJ0222000812				88.0	37.1			0.763	ARJ0113200808			ARJ0223200808				
		140.5	51.4		0.204			ARJ0112000818	ARJ0222000818				127.0	51.6			0.519	ARJ0113200812			ARJ0223200812				
	20.0	20.0	40.9	13.6	15.00	0.552	17.1	22.9	ARJ0112001003	ARJ0222001003	34.20	27.6	36.4	188.0	73.2	27.30	0.350	ARJ0113200818	ARJ0223200818	27.6	36.4	55.5	19.8	ARJ0113201003	ARJ0223201003
			59.5	19.2		0.351			ARJ0112001005	ARJ0222001005				83.0	27.4			0.562	ARJ0113201005			ARJ0223201005			
			90.0	27.6		0.227			ARJ0112001008	ARJ0222001008				125.0	38.8			0.364	ARJ0113201008			ARJ0223201008			
			133.0	38.8		0.155			ARJ0112001012	ARJ0222001012				187.0	54.1			0.247	ARJ0113201012			ARJ0223201012			
			189.0	55.6		0.104			ARJ0112001018	ARJ0222001018				267.0	77.0			0.167	ARJ0113201018			ARJ0223201018			
			56.0	15.0		0.283			ARJ0112001203	ARJ0222001203				79.5	21.2			0.452	ARJ0113201203			ARJ0223201203			
	25.0	25.0	85.0	21.4	12.00	0.180	22.0	27.9	ARJ0112001205	ARJ0222001205	100.00	35.6	44.4	117.0	29.7	27.30	0.288	ARJ0113201205	ARJ0223201205	35.6	44.4	178.0	42.3	ARJ0113201208	ARJ0223201208
			142.0	31.0		0.116			ARJ0112001208	ARJ0222001208				271.0	59.2			0.126	ARJ0113201212			ARJ0223201212			
			188.0	43.8		0.079			ARJ0112001212	ARJ0222001212				401.9	84.5			0.086	ARJ0113201218			ARJ0223201218			
			289.0	63.0		0.053			ARJ0112001218	ARJ0222001218				34.5	23.0			8.830	ARJ0114000503			ARJ0224000503			
			16.9	13.1		9.490			ARJ0112200403	ARJ022200403				49.8	32.0			5.620	ARJ0114000505			ARJ0224000505			
			23.0	17.7		6.040			ARJ0112200405	ARJ022200405				70.0	44.0			3.640	ARJ0114000508			ARJ0224000508			
	2.20	8.8	36.7	27.4	32.00	3.490	6.0	11.6	ARJ0112200409	ARJ022200409	100.00	15.3	24.7	100.0	62.0	100.00	2.470	ARJ0114000512	ARJ0224000512	15.3	24.7	146.0	90.0	ARJ0114000518	ARJ0224000518
			56.2	41.9		2.140			ARJ0112200415	ARJ022200415				40.8	23.0			4.520	ARJ0114000603			ARJ0224000603			
			21.5	13.1		3.080			ARJ0112200603	ARJ022200603				60.2	32.2			2.880	ARJ0114000605			ARJ0224000605			
12.8		12.8	30.4	17.7	24.30	1.960	10.0	15.6	ARJ0112200605	ARJ022200605	80.70	20.3	29.7	181.0	92.1	50.50	0.855	ARJ0114000608	ARJ0224000608	20.3	29.7	126.5	64.5	ARJ0114000612	ARJ0224000612
			48.7	27.4		1.140			ARJ0112200609	ARJ022200609				53.3	24.0			2.156	ARJ0114000618			ARJ0224000618			
			39.1	14.0		0.624			ARJ0112201003	ARJ022201003				77.0	33.3			1.372	ARJ0114000803			ARJ0224000803			
21.8		21.8	56.0	19.5	15.70	0.397	18.9	24.7	ARJ0112201005	ARJ022201005	63.10	27.0	37.0	163.0	65.8	50.50	0.604	ARJ0114000808	ARJ0224000808	27.0	37.0	238.0	93.6	ARJ0114000812	ARJ0224000812
			23.0	14.6		5.520			ARJ0112500503	ARJ0222500503				70.9	25.2			1.104	ARJ0114001003			ARJ0224001003			
			33.6	21.0		3.510			ARJ0112500505	ARJ0222500505				101.0	35.1			0.702	ARJ0114001005			ARJ0224001005			
12.5		12.5	47.0	28.5	44.30	2.270	9.4	15.6	ARJ0112500508	ARJ0222500508	50.50	34.8	45.2	328.5	99.6	40.40	0.209	ARJ0114001008	ARJ0224001008	34.8	45.2	181.0	92.1	ARJ0114000618	ARJ0224000618
			67.0	40.0		1.550			ARJ0112500512	ARJ0222500512				96.0	27.4			0.565	ARJ0114001012			ARJ0224001012			
			95.0	56.0		1.040			ARJ0112500518	ARJ0222500518				146.0	38.6			0.360	ARJ0114001018			ARJ0224001018			
	27.0		14.6	2.630		ARJ0112500603			ARJ0222500603	226.0				55.4	0.233			ARJ0114001203	ARJ0224001203						
	41.0		21.0	1.670		ARJ0112500605			ARJ0222500605	334.5				77.8	0.158			ARJ0114001205	ARJ0224001205						
	59.5		29.3	34.50		1.080			12.9	19.1				ARJ0112500608	ARJ0222500608			470.0	111.0			0.107	ARJ0114001208	ARJ0224001208	
2.50	16.0	84.0	41.1	34.50	0.740	12.9	19.1	ARJ0112500612	ARJ0222500612	50.50	34.8	45.2	328.5	99.6	40.40	0.209	ARJ0114001008	ARJ0224001008	34.8	45.2	101.0	35.1	ARJ0114001005	ARJ0224001005	
		122.3	58.9		0.500			ARJ0112500618	ARJ0222500618				154.0	50.0			0.454	ARJ0114001008			ARJ0224001008				
		35.5	15.5		1.350			ARJ0112500803	ARJ0222500803				223.0	69.8			0.309	ARJ0114001012			ARJ0224001012				
	20.0	20.0	52.0	21.9	27.70	0.860	16.8	23.2	ARJ0112500805	ARJ0222500805	50.50	34.8	45.2	328.5	99.6	40.40	0.209	ARJ0114001018	ARJ0224001018	34.8	45.2	181.0	92.1	ARJ0114000618	ARJ0224000618
			78.0	31.5		0.550			ARJ0112500808	ARJ0222500808				96.0	27.4			0.565	ARJ0114001018			ARJ0224001018			
			113.5	44.3		0.380			ARJ0112500812	ARJ0222500812				146.0	38.6			0.360	ARJ0114001203			ARJ0224001203			
			161.5	63.6		0.250			ARJ0112500818	ARJ0222500818				226.0	55.4			0.233	ARJ0114001205			ARJ0224001205			
			46.5	16.8		0.690			ARJ0112501003	ARJ0222501003				334.5	77.8			0.158	ARJ0114001208			ARJ0224001208			
			71.0	24.0		0.440			ARJ0112501005	ARJ0222501005				470.0	111.0			0.107	ARJ0114001212			ARJ0224001212			
	25.0	25.0	107.0	34.8	22.10	0.284	21.6	28.4	ARJ0112501008	ARJ0222501008	50.50	34.8	45.2	328.5	99.6	40.40	0.209	ARJ0114001208	ARJ0224001208	34.8	45.2	181.0	92.1	ARJ0114001212	ARJ0224001212
			156.0	49.2		0.193			ARJ0112501012	ARJ0222501012				96.0	27.4			0.565	ARJ0114001203			ARJ0224001203			
			233.0	70.8		0.130			ARJ0112501018	ARJ0222501018				146.0	38.6			0.360	ARJ0114001205			ARJ0224001205			
71.9			19.3	0.329		ARJ0112501203			ARJ0222501203	226.0				55.4	0.233			ARJ0114001208	ARJ0224001208						
108.0			27.9	0.209		ARJ0112501205			ARJ0222501205	334.5				77.8	0.158			ARJ0114001212	ARJ0224001212						
160.0			41.0	0.135		ARJ0112501208			ARJ0222501208	470.0				111.0	0.107			ARJ0114001218	ARJ0224001218						
2.80	11.2	237.0	58.1	17.30	0.092	28.3	35.7	ARJ0112501212	ARJ0222501212	50.50	34.8	45.2	328.5	99.6	40.40	0.209	ARJ0114001018	ARJ0224001018	34.8	45.2	181.0	92.1	ARJ0114001018	ARJ0224001018	
		350.0	83.9		0.062			ARJ0112501218	ARJ0222501218				96.0	27.4			0.565	ARJ0114001203			ARJ0224001203				
		21.0	16.4		12.070			ARJ0112800403	ARJ0222800403				146.0	38.6			0.360	ARJ0114001205			ARJ0224001205				
	17.2	17.2	28.7	22.3	49.00	7.680	7.8	16.4	ARJ0112800405	ARJ0222800405	50.50	34.8	45.2	328.5	99.6	40.40	0.209	ARJ0114001018	ARJ0224001018	34.8	45.2	181.0	92.1	ARJ0114001018	ARJ0224001018
			45.9	34.9		4.450			ARJ0112800409	ARJ0222800409				96.0	27.4			0.565	ARJ0114001203			ARJ0224001203			
			71.2	53.3		2.730			ARJ0112800415	ARJ0222800415				146.0	38.6			0.360	ARJ0114001205			ARJ0224001205			
	27.2	27.2	27.2	16.4	36.00	3.330	13.8	20.6	ARJ0112800603	ARJ0222800603	50.50	34.8	45.2	328.5	99.6	40.40	0.209	ARJ0114001018	ARJ0224001018	34.8	45.2	181.0	92.1	ARJ0114001018	ARJ0224001018
			39.5	22.5		2.120			ARJ0112800605	ARJ0222800605				96.0	27.4			0.565	ARJ0114001203			ARJ0224001203			
			63.0	34.9		1.230			ARJ0112800609	ARJ0222800609				146.0	38.6			0.360	ARJ0114001205			ARJ0224001205			
	3.20	16.0	45.5	17.9	24.50	0.843	23.7	30.7	ARJ0112801003	ARJ0222801003	50.50	34.8	45.2	328.5	99.6	40.40	0.209	ARJ0114001018	ARJ0224001018	34.8	45.2	181.0	92.1	ARJ0114001018	ARJ0224001018
			69.6	24.9		0.536			ARJ0112801005	ARJ0222801005				96.0	27.4			0.565	ARJ0114001203			ARJ0224001203			
			28.1	18.9		7.060			ARJ0113200503	ARJ0223200503				146.0	38.6			0.360	ARJ0114001205			ARJ0224001205			
20.0		20.0	40.5	25.4	68.0	4.500	12.2	19.8	ARJ0113200505	ARJ0223200505	50.50	34.8	45.2	328.5	99.6	40.40	0.209	ARJ0114001018	ARJ0224001018	34.8	45.2	181.0	92.1	ARJ0114001018	ARJ0224001018
			58.0	36.0		2.910			ARJ0113200508	ARJ0223200508				96.0	27.4			0.565	ARJ0114001203			ARJ0224001203			
			81.0	49.0		1.980			ARJ0113200512	ARJ0223200512				146.0	38.6			0.360	ARJ0114001205			ARJ0224001205			
			118.0	70.0		1.336			ARJ0113200518	ARJ0223200518				226.0	55.4			0.233	ARJ0114001208			ARJ0224001208			
			33.5	18.5		3.620			ARJ011320060																