TRÊS-S-
FERRAMENTAS DE PRECISÃO LTDA.

- ✓ CARGA LEVE
- ✓ CARGA MEDIA
- ✓ CARGA PESADA
- ✓ CARGA EXTRA PESADA

MOLAS DE COMPRESSÃO

MOLA DE CARGA LEVE - ML

***SECÇÃO**

Redonda
Diâmetros
de 10 a 16 mm

Retangular
Diâmetros
de 20 a 63 mm

	Diam. furo	Diam. eixo	Compr. livre (mm)	Carga p/ deflexão	Tabela de cargas			
					40.0% - Curso máximo de trabalho		Compressão total	
Código	D	d	L	(N/mm)	Defl. (mm)	Carga (N)	Defl. (mm)	Carga (N)
ML-10.025	**10.0**	**5.0**	25	4.5	10.0	45	13.0	59
ML-10.032			32	3.5	12.8	45	16.0	56
ML-10.038			38	2.8	15.2	43	20.0	56
ML-10.044			44	2.4	17.6	42	23.0	55
ML-10.051			51	2.1	20.4	43	27.0	57
ML-10.064			64	1.6	25.6	41	34.0	54
ML-10.076			76	1.3	30.4	40	40.0	52
ML-10.305			305	0.3	122.0	37	163.0	49
ML-13.025	**12.5**	**6.3**	25	8.9	10.0	89	13.0	116
ML-13.032			32	6.7	12.8	86	17.0	114
ML-13.038			38	5.5	15.2	84	20.0	110
ML-13.044			44	4.6	17.6	81	23.0	106
ML-13.051			51	3.9	20.4	80	27.0	105
ML-13.064			64	3.0	25.6	77	35.0	105
ML-13.076			76	2.5	30.4	76	41.0	103
ML-13.089			89	2.1	35.6	75	49.0	103
ML-13.305			305	0.6	122.0	73	166.0	100
ML-16.025	**16.0**	**8.0**	25	17.9	10.0	179	13.0	230
ML-16.032			32	13.4	12.8	172	16.0	241
ML-16.038			38	10.6	15.2	161	20.0	212
ML-16.044			44	8.7	17.6	153	23.0	200
ML-16.051			51	7.6	20.4	155	27.0	205
ML-16.064			64	5.9	25.6	151	34.0	201
ML-16.076			76	4.8	30.4	146	41.0	197
ML-16.089			89	4.0	35.6	142	49.0	196
ML-16.102			102	3.5	40.8	143	56.0	196
ML-16.305			305	1.1	122.0	134	170	187
ML-20.025	**20.0**	**10.0**	25	55.0	10.0	550	13.0	715
ML-20.032			32	42.0	12.8	538	16.0	672
ML-20.038			38	33.0	15.2	502	19.0	627
ML-20.044			44	27.7	17.6	488	23.0	637
ML-20.051			51	24.5	20.4	500	26.0	637
ML-20.064			64	19.0	25.6	486	32.0	608
ML-20.076			76	16.1	30.4	489	40.0	644
ML-20.089			89	13.4	35.6	477	46.0	616
ML-20.102			102	11.8	40.8	481	53.0	625
ML-20.115			115	10.4	46.0	478	60.0	624
ML-20.127			127	9.3	50.8	472	67.0	623
ML-20.139			139	8.5	55.6	473	73.0	621
ML-20.152			152	7.9	60.8	480	81.0	640
ML-20.305			305	3.8	122.0	464	162.0	616
ML-25.025	**25.0**	**12.5**	25	107.0	10.0	1070	13.0	1391
ML-25.032			32	81.0	12.8	1037	16.0	1296
ML-25.038			38	65.0	15.2	988	19.0	1235
ML-25.044			44	53.0	17.6	933	23.0	1219
ML-25.051			51	46.0	20.4	938	25.0	1150
ML-25.064			64	36.0	25.6	922	31.0	1116
ML-25.076			76	29.2	30.4	888	39.0	1139
ML-25.089			89	24.6	35.6	876	46.0	1132
ML-25.102			102	21.2	40.8	865	52.0	1102
ML-25.115			115	18.7	46.0	860	59.0	1103
ML-25.127			127	16.7	50.8	848	66.0	1102
ML-25.139			139	15.2	55.6	845	74.0	1125
ML-25.152			152	14.0	60.8	851	80.0	1120
ML-25.178			178	12.0	71.2	854	93.0	1116
ML-25.203			203	10.5	81.2	853	107.0	1124
ML-25.305			305	7.0	122.0	854	160.0	1120

	Diam. furo	Diam. eixo	Compr. livre (mm)	Carga p/ deflexão	Tabela de cargas			
					40.0% - Curso máximo de trabalho		Compressão total	
Código	D	d	L	(N/mm)	Defl. (mm)	Carga (N)	Defl. (mm)	Carga (N)
ML-32.038	**32.0**	**16.0**	38	101.0	15.2	854		1919
ML-32.044			44	83.0	17.6	1461	22.0	1826
ML-32.051			51	71.0	20.4	1448	25.0	1775
ML-32.064			64	55.0	25.6	1408	32.0	1760
ML-32.076			76	46.0	30.4	1398	39.0	1794
ML-32.089			89	39.0	35.6	1388	45.0	1755
ML-32.102			102	34.0	40.8	1387	52.0	1768
ML-32.115			115	30.0	46.0	1380	58.0	1740
ML-32.127			127	26.2	50.8	1331	65.0	1703
ML-32.139			139	23.8	55.6	1323	72.0	1714
ML-32.152			152	21.9	60.8	1332	78.0	1708
ML-32.178			178	18.2	71.2	1296	88.0	1602
ML-32.203			203	15.9	81.2	1291	104.0	1654
ML-32.254			254	12.5	101.6	1270	130.0	1625
ML-32.305			305	10.4	122.0	1269	155.0	1612
ML-40.051	**40.0**	**20.0**	51	106.0	20.4	2162	25.0	2650
ML-40.064			64	80.0	25.6	2048	32.0	2560
ML-40.076			76	66.0	30.4	2006	38.0	2508
ML-40.089			89	56.0	35.6	1994	45.0	2520
ML-40.102			102	48.0	40.8	1958	51.0	2448
ML-40.115			115	42.0	46.0	1932	58.0	2436
ML-40.127			127	38.0	50.8	1930	65.0	2470
ML-40.139			139	34.0	55.6	1890	71.0	2414
ML-40.152			152	31.0	60.8	1885	78.0	2418
ML-40.178			178	26.0	71.2	1851	92.0	2392
ML-40.203			203	23.0	81.2	1868	105.0	2415
ML-40.254			254	18.0	101.6	1829	131.0	2358
ML-40.305			305	14.8	122.0	1806	157.0	2324
ML-50.064	**50.0**	**25.0**	64	157.0	25.6	4019	32.0	5024
ML-50.076			76	126.0	30.4	3830	39.0	4914
ML-50.089			89	105.0	35.6	3738	45.0	4725
ML-50.102			102	90.0	40.8	3672	52.0	4680
ML-50.115			115	78.0	46.0	3588	58.0	4524
ML-50.127			127	70.0	50.8	3556	65.0	4550
ML-50.139			139	63.0	55.6	3503	72.0	4536
ML-50.152			152	57.0	60.8	3466	78.0	4446
ML-50.178			178	48.0	71.2	3418	92.0	4416
ML-50.203			203	42.0	81.2	3410	104.0	4368
ML-50.254			254	33.0	101.6	3353	130.0	4290
ML-50.305			305	27.0	122.0	3294	156.0	4212
ML-63.076	**63.0**	**38.0**	76	193.0	30.4	5867	38.0	7334
ML-63.089			89	158.0	35.6	5625	44.0	6952
ML-63.102			102	134.0	40.8	5467	50.0	6700
ML-63.115			115	116.0	46.0	5336	57.0	6612
ML-63.127			127	102.0	50.8	5182	64.0	6528
ML-63.152			152	84.0	60.8	5107	76.0	6384
ML-63.178			178	70.0	71.2	4984	89.0	6230
ML-63.203			203	60.0	81.2	4872	102.0	6120
ML-63.254			254	47.0	101.6	4775	126.0	5922
ML-63.305			305	39.0	122.0	4758	152.0	5928

MOLA DE CARGA MÉDIA - MM

***SECÇÃO**

Redonda
Diâmetros
de 10 a 16 mm

Retangular
Diâmetros
de 20 a 63 mm

	Diam. furo	Diam. eixo	Compr. livre (mm)	Carga p/ deflexão	Tabela de cargas			
					37.5% - Curso máximo de trabalho		Compressão total	
Código	D	d	L	(N/mm)	Defl. (mm)	Carga (N)	Defl. (mm)	Carga (N)
MM-10.025	**10.0**	**5.0**	25	12.6	9.4	118	11.0	139
MM-10.032			32	9.8	12.0	118	13.0	127
MM-10.038			38	7.9	14.3	113	16.0	126
MM-10.044			44	6.6	16.5	109	19.0	125
MM-10.051			51	5.7	19.1	109	21.0	120
MM-10.064			64	4.5	24.0	108	27.0	122
MM-10.076			76	3.7	28.5	105	33.0	122
MM-10.305			305	0.9	114.4	103	136.0	122
MM-13.025	**12.5**	**6.3**	25	22.8	9.4	214	11.0	251
MM-13.032			32	17.5	12.0	210	13.0	228
MM-13.038			38	14.3	14.3	204	16.0	229
MM-13.044			44	11.8	16.5	195	19.0	224
MM-13.051			51	10.2	19.1	195	22.0	224
MM-13.064			64	7.9	24.0	190	28.0	221
MM-13.076			76	6.5	28.5	185	34.0	221
MM-13.089			89	5.5	33.4	184	41.0	226
MM-13.305			305	1.5	114.4	172	144.0	216
MM-16.025	**16.0**	**8.0**	25	33.8	9.4	317	11.0	372
MM-16.032			32	25.0	12.0	300	13.0	325
MM-16.038			38	20.1	14.3	286	16.0	322
MM-16.044			44	16.7	16.5	276	19.0	317
MM-16.051			51	14.2	19.1	272	21.0	298
MM-16.064			64	11.0	24.0	264	27.0	297
MM-16.076			76	9.0	28.5	257	33.0	297
MM-16.089			89	7.6	33.4	254	39.0	296
MM-16.102			102	6.6	38.3	252	45.0	297
MM-16.305			305	2.1	114.4	240	138.0	290
MM-20.025	**20.0**	**10.0**	25	90.2	9.4	846	11.0	992
MM-20.032			32	66.7	12.0	800	13.0	867
MM-20.038			38	54.8	14.3	781	16.0	877
MM-20.044			44	44.5	16.5	734	19.0	846
MM-20.051			51	39.4	19.1	754	21.0	827
MM-20.064			64	30.3	24.0	727	27.0	818
MM-20.076			76	24.9	28.5	710	33.0	822
MM-20.089			89	21.4	33.4	714	39.0	835
MM-20.102			102	18.4	38.3	704	44.0	810
MM-20.115			115	16.3	43.1	703	49.0	799
MM-20.127			127	14.6	47.6	695	55.0	803
MM-20.139			139	13.2	52.1	688	61.0	805
MM-20.152			152	12.1	57.0	690	66.0	799
MM-20.305			305	6.1	114.4	698	136.0	830
MM-25.025	**25.0**	**12.5**	25	167.0	9.4	1566	11.0	1837
MM-25.032			32	125.0	12.0	1500	13.0	1625
MM-25.038			38	99.0	14.3	1411	16.0	1584
MM-25.044			44	83.0	16.5	1370	19.0	1577
MM-25.051			51	72.0	19.1	1377	21.0	1512
MM-25.064			64	55.0	24.0	1320	27.0	1485
MM-25.076			76	45.0	28.5	1283	33.0	1485
MM-25.089			89	38.0	33.4	1268	39.0	1482
MM-25.102			102	33.0	38.3	1262	44.0	1452
MM-25.115			115	29.1	43.1	1255	50.0	1455
MM-25.127			127	26.3	47.6	1253	56.0	1473
MM-25.139			139	23.6	52.1	1230	63.0	1487
MM-25.152			152	21.7	57.0	1237	67.0	1454
MM-25.178			178	18.4	66.8	1228	79.0	1454
MM-25.203			203	16	76.1	1218	90.0	1440
MM-25.305			305	10.5	114.4	1201	135.0	1418

	Diam. furo	Diam. eixo	Compr. livre (mm)	Carga p/ deflexão	Tabela de cargas			
					37.5% - Curso máximo de trabalho		Compressão total	
Código	D	d	L	(N/mm)	14.3	1201	Defl. (mm)	Carga (N)
MM-32.038	**32.0**	**16.0**	38	166.0	Defl. (mm)	Carga (N)	16.0	2656
MM-32.044			44	136.0	16.5	2244	19.0	2584
MM-32.051			51	116.0	19.1	2219	21.0	2436
MM-32.064			64	88.0	24.0	2112	27.0	2376
MM-32.076			76	71.0	28.5	2024	32.0	2272
MM-32.089			89	60.0	33.4	2003	37.0	2220
MM-32.102			102	52.0	38.3	1989	43.0	2236
MM-32.115			115	46.0	43.1	1984	49.0	2254
MM-32.127			127	42.0	47.6	2000	55.0	2310
MM-32.139			139	37.0	52.1	1929	60.0	2220
MM-32.152			152	34.0	57.0	1938	66.0	2244
MM-32.178			178	29.1	66.8	1942	77.0	2241
MM-32.203			203	25.2	76.1	1918	88.0	2218
MM-32.254			254	20.0	95.3	1905	110.0	2200
MM-32.305			305	16.6	114.4	1899	133.0	2208
MM-40.051	**40.0**	**20.0**	51	171.0	19.1	3270	21.0	3591
MM-40.064			64	129.0	24.0	3096	26.0	3354
MM-40.076			76	105.0	28.5	2993	32.0	3360
MM-40.089			89	88.0	33.4	2937	37.0	3256
MM-40.102			102	76.0	38.3	2907	43.0	3268
MM-40.115			115	67.0	43.1	2889	48.0	3216
MM-40.127			127	60.0	47.6	2858	54.0	3240
MM-40.139			139	54.0	52.1	2815	59.0	3186
MM-40.152			152	49.0	57.0	2793	65.0	3185
MM-40.178			178	42.0	66.8	2804	76.0	3192
MM-40.203			203	36.0	76.1	2741	87.0	3132
MM-40.254			254	28.9	95.3	2753	110.0	3179
MM-40.305			305	23.8	114.4	2722	131.0	3118
MM-50.064	**50.0**	**25.0**	64	212.0	24.0	5088	27.0	5724
MM-50.076			76	167.0	28.5	4760	32.0	5344
MM-50.089			89	140.0	33.4	4673	37.0	5180
MM-50.102			102	122.0	38.3	4667	43.0	5246
MM-50.115			115	107.0	43.1	4614	49.0	5243
MM-50.127			127	95.0	47.6	4524	54.0	5130
MM-50.139			139	86.0	52.1	4483	59.0	5074
MM-50.152			152	78.0	57.0	4446	66.0	5148
MM-50.178			178	66.0	66.8	4406	77.0	5082
MM-50.203			203	57.0	76.1	4339	88.0	5016
MM-50.229			229	51.0	85.9	4380	100.0	5100
MM-50.254			254	46.0	95.3	4382	117.0	5382
MM-50.305			305	38.0	114.4	4346	134.0	5092
MM-63.076	**63.0**	**38.0**	76	304.0	28.5	8664	32.0	9728
MM-63.089			89	250.0	33.4	8344	38.0	9500
MM-63.102			102	212.0	38.3	8109	44.0	9328
MM-63.115			115	186.0	43.1	8021	50.0	9300
MM-63.127			127	164.0	47.6	7811	56.0	9184
MM-63.152			152	133.0	57.0	7581	67.0	8911
MM-63.178			178	112.0	66.8	7476	78.0	8736
MM-63.203			203	96.0	76.1	7308	90.0	8640
MM-63.229			229	85.0	85.9	7299	102.0	8670
MM-63.254			254	77.0	95.3	7334	115.0	8855
MM-63.305			305	63.0	114.4	7206	138.0	8694

MOLA DE CARGA PESADA - MP

***SECÇÃO**

Redonda
Diâmetros
de 10 a 16 mm

Retangular
Diâmetros
de 20 a 63 mm

	Diam. furo	Diam. eixo	Compr. livre (mm)	Carga p/ deflexão	Tabela de cargas			
					30.0% - Curso máximo de trabalho		Compressão total	
Código	D	d	L	(N/mm)	Defl. (mm)	Carga (N)	Defl. (mm)	Carga (N)
MP-10.025	**10.0**	**5.0**	25	21.3	7.5	160	8.9	190
MP-10.032			32	16.4	9.6	157	11.7	192
MP-10.038			38	13.3	11.4	152	14.0	186
MP-10.044			44	11.3	13.2	149	17.0	192
MP-10.051			51	9.8	15.3	150	19.0	186
MP-10.064			64	7.8	19.2	150	25.0	195
MP-10.076			76	6.3	22.8	144	29.0	183
MP-10.305			305	1.5	91.5	137	120.0	180
MP-13.025	**12.5**	**6.3**	25	39.0	7.5	293	8.7	339
MP-13.032			32	30.0	9.6	288	11.0	330
MP-13.038			38	24.2	11.4	276	13.5	327
MP-13.044			44	20.1	13.2	265	16.0	322
MP-13.051			51	17.7	15.3	271	19.0	336
MP-13.064			64	13.8	19.2	265	24.0	331
MP-13.076			76	11.4	22.8	260	29.0	331
MP-13.089			89	9.6	26.7	256	33.0	317
MP-13.305			305	2.7	91.5	247	120.0	324
MP-16.025	**16.0**	**8.0**	25	87.0	7.5	653	8.7	757
MP-16.032			32	64.0	9.6	614	11.0	704
MP-16.038			38	52.0	11.4	593	13.7	712
MP-16.044			44	42.0	13.2	554	15.7	659
MP-16.051			51	36.4	15.3	557	18.5	673
MP-16.064			64	28.4	19.2	545	23.5	667
MP-16.076			76	23.3	22.8	531	29.0	676
MP-16.089			89	19.8	26.7	529	34.5	683
MP-16.102			102	17.2	30.6	526	40.0	688
MP-16.305			305	5.4	91.5	494	122.0	659
MP-20.025	**20.0**	**10.0**	25	231.0	7.5	1733	8.4	1940
MP-20.032			32	174.0	9.6	1670	10.5	1827
MP-20.038			38	139.0	11.4	1585	12.5	1738
MP-20.044			44	114.0	13.2	1505	14.5	1653
MP-20.051			51	98.0	15.3	1499	16.5	1617
MP-20.064			64	77.0	19.2	1478	21.0	1617
MP-20.076			76	63.0	22.8	1436	26.0	1638
MP-20.089			89	54.0	26.7	1442	30.0	1620
MP-20.102			102	47.0	30.6	1438	35.0	1645
MP-20.115			115	41.0	34.5	1415	40.0	1640
MP-20.127			127	37.0	38.1	1410	44.0	1628
MP-20.139			139	34.0	41.7	1418	49.0	1666
MP-20.152			152	30.8	45.6	1404	53.0	1632
MP-20.305			305	15.0	91.5	1373	108.0	1620
MP-25.032	**25.0**	**12.5**	32	276.0	9.6	2650	10.5	2898
MP-25.038			38	220.0	11.4	2508	13.0	2860
MP-25.044			44	184.0	13.2	2429	15.5	2852
MP-25.051			51	157.0	15.3	2402	18.0	2826
MP-25.064			64	122.0	19.2	2342	22.5	2745
MP-25.076			76	100.0	22.8	2280	27.5	2750
MP-25.089			89	84.0	26.7	2243	32.5	2730
MP-25.102			102	74.0	30.6	2264	37.5	2775
MP-25.115			115	65.0	34.5	2243	42.7	2776
MP-25.127			127	58.0	38.1	2210	47.0	2726
MP-25.139			139	52.0	41.7	2168	52.0	2704
MP-25.152			152	48.0	45.6	2189	57.5	2760
MP-25.178			178	41.0	53.4	2189	68.0	2788
MP-25.203			203	35.9	60.9	2186	77.0	2764
MP-25.305			305	24.2	91.5	2214	115	2783

	Diam. furo	Diam. eixo	Compr. livre (mm)	Carga p/ deflexão	Tabela de cargas			
					30.0% - Curso máximo de trabalho		Compressão total	
Código	D	d	L	(N/mm)	Defl. (mm)	Carga (N)	Defl. (mm)	Carga (N)
MP-32.038	**32.0**	**16.0**	38	376.0	11.4	2214	12.0	4512
MP-32.044			44	310.0	13.2	4092	14.0	4340
MP-32.051			51	263.0	15.3	4024	16.5	4340
MP-32.064			64	205.0	19.2	3936	21.5	4408
MP-32.076			76	166.0	22.8	3785	26.0	4316
MP-32.089			89	139.0	26.7	3711	30.5	4240
MP-32.102			102	121.0	30.6	3703	35.5	4296
MP-32.115			115	106.0	34.5	3657	40.5	4293
MP-32.127			127	96.0	38.1	3658	45.0	4320
MP-32.139			139	86.0	41.7	3586	50.0	4300
MP-32.152			152	79.0	45.6	3602	54.0	4266
MP-32.178			178	67.0	53.4	3578	63.0	4221
MP-32.203			203	58.0	60.9	3532	72.0	4176
MP-32.254			254	46.0	76.2	3505	92.0	4232
MP-32.305			305	38.0	91.5	3477	110.0	4180
MP-40.051	**40.0**	**20.0**	51	349.0	15.3	5340	17.0	5933
MP-40.064			64	266.0	19.2	5107	22.0	5852
MP-40.076			76	215.0	22.8	4902	27.0	5805
MP-40.089			89	180.0	26.7	4806	32.0	5760
MP-40.102			102	157.0	30.6	4804	37.0	5809
MP-40.115			115	138.0	34.5	4761	42.0	5796
MP-40.127			127	124.0	38.1	4724	47.0	5828
MP-40.139			139	113.0	41.7	4712	52.0	5876
MP-40.152			152	102.0	45.6	4651	57.5	5865
MP-40.178			178	87.0	53.4	4646	67.0	5829
MP-40.203			203	76.0	60.9	4628	76.0	5776
MP-40.254			254	60.0	76.2	4572	97.0	5820
MP-40.305			305	50.0	91.5	4575	116.0	5800
MP-50.064	**50.0**	**25.0**	64	423.0	19.2	8122	21.5	9095
MP-50.076			76	338.0	22.8	7706	26.0	8788
MP-50.089			89	281.0	26.7	7503	30.5	8571
MP-50.102			102	245.0	30.6	7497	35.0	8575
MP-50.115			115	215.0	34.5	7418	40.0	8600
MP-50.127			127	189.0	38.1	7201	45.0	8505
MP-50.139			139	168.0	41.7	7047	50.0	8450
MP-50.152			152	154.0	45.6	7022	54.0	8316
MP-50.178			178	132.0	53.4	7049	64.0	8448
MP-50.203			203	115.0	60.9	7004	72.5	8338
MP-50.254			254	90.0	76.2	6858	92.0	8280
MP-50.305			305	75.0	91.5	6863	112.0	8400

MOLA DE CARGA EXTRA PESADA - MEP

***SECÇÃO**

Redonda
Diâmetros
de 10 a 16 mm

Retangular
Diâmetros
de 20 a 63 mm

	Diam. furo	Diam. eixo	Compr. livre (mm)	Carga p/ deflexão	Tabela de cargas			
					25.0% - Curso máximo de trabalho		Compressão total	
Código	D	d	L	(N/mm)	Defl. (mm)	Carga (N)	Defl. (mm)	Carga (N)
MEP-10.025	**10.0**	**5.0**	25	32.7	6.3	204	8.7	284
MEP-10.032			32	25.0	8.0	200	10.5	263
MEP-10.038			38	21.2	9.5	201	13.2	280
MEP-10.044			44	17.7	11.0	195	15.0	266
MEP-10.051			51	15.3	12.8	195	17.0	260
MEP-10.064			64	12.2	16.0	195	21.5	262
MEP-10.076			76	10.1	19.0	192	26.5	268
MEP-10.305			305	2.5	76.3	191	106.0	265
MEP-13.025	**12.5**	**6.3**	25	58.7	6.3	367	9.0	528
MEP-13.032			32	44.3	8.0	354	10.8	478
MEP-13.038			38	36.3	9.5	345	13.0	472
MEP-13.044			44	30.6	11.0	337	15.5	474
MEP-13.051			51	27.1	12.8	346	18.0	488
MEP-13.064			64	21.7	16.0	347	22.0	477
MEP-13.076			76	17.7	19.0	336	27.0	478
MEP-13.089			89	15.1	22.3	336	33.0	498
MEP-13.305			305	4.2	76.3	320	112.0	470
MEP-16.025	**16.0**	**8.0**	25	126.0	6.3	788	9.0	1134
MEP-16.032			32	93.0	8.0	744	10.8	1004
MEP-16.038			38	75.0	9.5	713	13.0	975
MEP-16.044			44	63.0	11.0	693	15.0	945
MEP-16.051			51	55.0	12.8	701	18.0	990
MEP-16.064			64	43.0	16.0	688	22.0	946
MEP-16.076			76	35.2	19.0	669	26.5	933
MEP-16.089			89	30.0	22.3	668	31.5	945
MEP-16.102			102	26.1	25.5	666	36.5	953
MEP-16.305			305	8.5	76.3	648	110.0	935
MEP-20.025	**20.0**	**10.0**	25	322.0	6.3	2013	7.7	2479
MEP-20.032			32	242.0	8.0	1936	9.8	2372
MEP-20.038			38	195.0	9.5	1853	12.0	2340
MEP-20.044			44	163.0	11.0	1793	14.0	2282
MEP-20.051			51	140.0	12.8	1785	16.0	2240
MEP-20.064			64	109.0	16.0	1744	21.0	2289
MEP-20.076			76	90.0	19.0	1710	25.0	2250
MEP-20.089			89	76.0	22.3	1691	30.0	2280
MEP-20.102			102	66.0	25.5	1683	34.0	2240
MEP-20.115			115	58.0	28.8	1668	38.0	2204
MEP-20.127			127	52.0	31.8	1651	43.0	2236
MEP-20.139			139	47.0	34.8	1633	47.0	2209
MEP-20.152			152	43.0	38.0	1634	51.0	2193
MEP-20.305			305	21.2	76.3	1617	105.0	2226
MEP-25.032	**25.0**	**12.5**	32	354.0	8.0	2832	10.0	3540
MEP-25.038			38	280.0	9.5	2660	12.0	3360
MEP-25.044			44	232.0	11.0	2552	14.0	3248
MEP-25.051			51	198.0	12.8	2525	16.0	3168
MEP-25.064			64	154.0	16.0	2464	21.0	3234
MEP-25.076			76	125.0	19.0	2375	25.0	3125
MEP-25.089			89	105.0	22.3	2336	29.0	3045
MEP-25.102			102	91.0	25.5	2321	34.0	3094
MEP-25.115			115	81.0	28.8	2329	39.0	3159
MEP-25.127			127	72.0	31.8	2286	43.0	3096
MEP-25.139			139	66.0	34.8	2294	48.0	3168
MEP-25.152			152	60.0	38.0	2280	53.0	3180
MEP-25.178			178	51.0	44.5	2270	62.0	3162
MEP-25.203			203	45.0	50.8	2284	70.0	3150
MEP-25.305			305	29.6	76.3	2257	108.0	3197

	Diam. furo	Diam. eixo	Compr. livre (mm)	Carga p/ deflexão	Tabela de cargas			
					25.0% - Curso máximo de trabalho		Compressão total	
Código	D	d	L	(N/mm)	Carga (N)	Defl. (mm)	Carga (N)	Defl. (mm)
MEP-32.038	**32.0**	**16.0**	38	489.0	9.5	4646	11.0	5379
MEP-32.044			44	405.0	11.0	4455	13.0	5265
MEP-32.051			51	346.0	12.8	4412	15.0	5190
MEP-32.064			64	267.0	16.0	4272	20.0	5340
MEP-32.076			76	216.0	19.0	4104	24.0	5184
MEP-32.089			89	182.0	22.3	4050	29.0	5278
MEP-32.102			102	156.0	25.5	3978	33.0	5148
MEP-32.115			115	136.0	28.8	3910	36.0	4896
MEP-32.127			127	122.0	31.8	3874	41.0	5002
MEP-32.139			139	112.0	34.8	3892	47.0	5264
MEP-32.152			152	101.0	38.0	3838	50.0	5050
MEP-32.178			178	86.0	44.5	3827	59.0	5074
MEP-32.203			203	75.0	50.8	3806	68.0	5100
MEP-32.254			254	60.0	63.5	3810	85.0	5100
MEP-32.305			305	50.0	76.3	3813	103.0	5150
MEP-40.051	**40.0**	**20.0**	51	560.0	12.8	7140	15.0	8400
MEP-40.064			64	422.0	16.0	6752	19.0	8018
MEP-40.076			76	343.0	19.0	6517	24.0	8232
MEP-40.089			89	282.0	22.3	6275	28.0	7896
MEP-40.102			102	244.0	25.5	6222	33.0	8052
MEP-40.115			115	214.0	28.8	6153	37.0	7918
MEP-40.127			127	190.0	31.8	6033	41.0	7790
MEP-40.139			139	171.0	34.8	5942	46.0	7866
MEP-40.152			152	156.0	38.0	5928	50.0	7800
MEP-40.178			178	132.0	44.5	5874	58.0	7656
MEP-40.203			203	114.0	50.8	5786	67.0	7638
MEP-40.254			254	91.0	63.5	5779	85.0	7735
MEP-40.305			305	75.0	76.3	5719	102.0	7650
MEP-50.064	**50.0**	**25.0**	64	724.0	16.0	11584	19.0	15566
MEP-50.076			76	573.0	19.0	10887	23.0	14898
MEP-50.089			89	474.0	22.3	10547	27.0	14457
MEP-50.102			102	404.0	25.5	10302	31.0	14140
MEP-50.115			115	353.0	28.8	10149	35.0	14120
MEP-50.127			127	312.0	31.8	9906	39.0	14040
MEP-50.139			139	282.0	24.8	9800	44.0	14100
MEP-50.152			152	255.0	38.0	9690	47.0	13770
MEP-50.178			178	215.0	44.5	9568	56.0	13760
MEP-50.203			203	186.0	50.8	9440	64.0	13485
MEP-50.254			254	146.0	63.5	9271	80.0	13432
MEP-50.305			305	121.0	76.3	9226	97.0	13552

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