

# ADIPRENES URITHANES

Se trata de un elastómero capaz de actuar igual que un muelle. Se puede utilizar como los siguientes objetos: Resortes, amortiguadores para placas flotantes, extractor de punzones, despegadores, extractores, resortes precomprimidos.

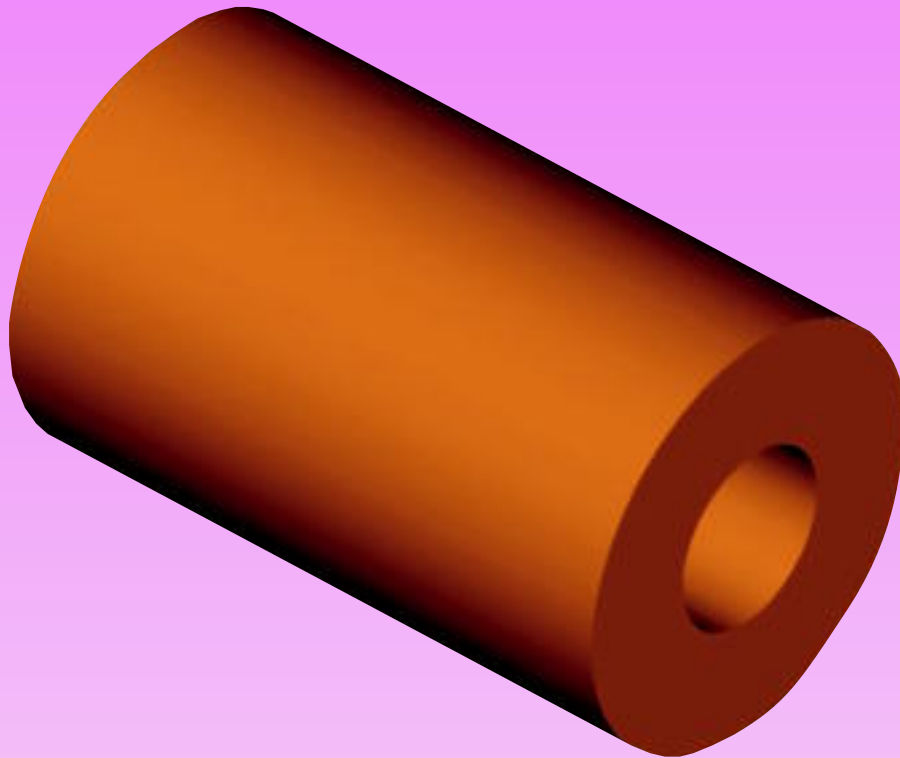
Tienen por objeto eliminar el ruido de los troqueles durante su funcionamiento y son especialmente resistentes al calentamiento, las rupturas y los aceites.

Un agujero ciego es suficiente para alojar el amortiguador.

*This utiliti work as a spring. we can use for: a spring, die floating plates`shock absorber, punch extractor, stripper, extractor and precompressed ressort.*

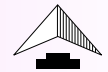
*Their popouse is to eliminate the noise from the presses in work and they are specially resistant to heatings, breakages and oils.*

*A blind hole is enough to allow the shock absorber.*



# Resortes en elastómeros

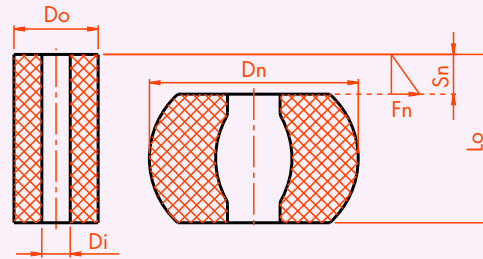
## Elastomers springs



**AZOL-GAS SA**

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MATERIAL: Elastómero  
 DUREZA: 70 +/- 2 Shore  
 Da - Diámetro exterior en mm  
 Di - Diámetro interior en mm  
 Dn - Diámetro exterior en mm con 30% (máx.) de deformación de Lo  
 Lo - Longitud total en mm  
 Fn - Carga en N con 30 % (máx.) de deformación de Lo  
 Sn - Longitud en mm con 30 % (máx.) de deformación de Lo



MATERIAL: Elastómero  
 DUREZA: 70 +/- 2 Shore  
 Da - Outside diameter in mm  
 Di - Inside diameter in mm  
 Dn - Outside diameter in mm at 30% (max.) deformation of Lo  
 Lo - Free length in mm  
 Fn - Load in N at 30 % (max.) deformation of Lo  
 Sn - Length in mm at 30 % (max.) deformation of Lo

Do mm	Di mm	Lo mm	Sn = 0.10 Lo			Sn = 0.15 Lo			Sn = 0.20 Lo			Sn = 0.25 Lo			Sn = 0.30 Lo			Cantidad min. Quantity min.	Referencia Reference
			Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn		
16	6.5	12	10.3	1.2	17.4	16	1.8	18.2	20	2.4	19	25	3.0	19.8	30.3	3.6	20.6	10	EL16.12.7
		16	10.9	1.6		17	2.4		21.2	3.2		27	4.0		33	4.8		10	EL16.16.7
		20	9.2	2.0		13.5	3.0		18	4.0		22.5	5.0		27.7	6.0		10	EL16.20.7
		25	10.1	2.5		15	3.75		19.5	5.0		24.7	6.25		30	7.5		10	EL16.25.7
20	8.5	16	14.7	1.6	21.8	22	2.4	22.8	27.3	3.2	23.8	55.5	6.0	24.8	43	4.8	25.8	10	EL20.16.7
		20	14.2	2.0		21	3.0		27.3	4.0		34.8	5.0		42.1	6.0		10	EL20.20.7
		25	14.3	2.5		21.5	3.75		27.7	5.0		35	6.25		43	7.5		10	EL20.25.7
25	10.5	32	12.8	3.2	27.3	19.8	4.8	28.5	26.6	6.4	29.8	34	8.0	31	42	9.6	32.3	5	EL20.32.7
		20	22.5	2.0		35	3.0		45.5	4.0		57	5.0		68.5	6.0		5	EL25.20.7
		25	25.5	2.5		39	3.75		53	5.0		68	6.25		83	7.5		5	EL25.25.7
		32	21	3.2		34	4.8		42.5	6.4		53	8.0		63.5	9.6		5	EL25.32.7
32	13.5	40	22.5	4.0	34.9	34.5	6.0	36.5	44.5	8.0	38.1	56	10.0	39.7	67.5	12.0	41.3	5	EL25.40.7
		32	63	3.2		85	4.8		116	6.4		140	8.0		162	9.6		5	EL32.32.7
		40	65	4.0		90	6.0		124	8.0		150.5	10.0		187	12.0		5	EL32.40.7
		50	60	5.0		84	7.5		116	10.0		145	12.5		178	15.0		5	EL32.50.7
40	13.5	63	62	6.3	43.6	94	9.45	45.6	119	12.6	47.6	150	15.75	49.6	187	18.9	51.6	5	EL32.63.7
		32	100	3.2		148	4.8		189	6.4		240	8.0		290	9.6		3	EL40.32.7
		40	95	4.0		140	6.0		174	8.0		220	10.0		255	12.0		3	EL40.40.7
		50	101	5.0		115	7.5		197	10.0		250	12.5		297	15.0		3	EL40.50.7
50	17	63	93	6.3	54.5	145	9.45	57	171	12.6	59.5	225	15.75	62	268	18.9	64.5	3	EL40.63.7
		80	86	8.0		125	12.0		168	16.0		215	20.0		264	24.0		3	EL40.80.7
		32	170	3.2		250	4.8		320	6.4		400	8.0		495	9.6		3	EL50.32.7
		40	180	4.0		255	6.0		340	8.0		425	10.0		530	12.0		3	EL50.40.7
		50	150	5.0		220	7.5		285	10.0		355	12.5		430	15.0		3	EL50.50.7
		63	160	6.3		240	9.45		300	12.6		380	15.75		440	18.9		2	EL50.63.7
63	17	80	150	8.0	68.7	225	12.0	71.8	290	16.0	75	360	20.0	78.2	445	24.0	81.3	2	EL50.80.7
		100	230	10.0		350	15.0		455	20.0		590	25.0		710	30.0		1	EL63.100.7
		125	250	12.5		390	18.7		510	25.0		630	31.25		785	37.5		1	EL63.125.7
		32	535	3.2		730	4.8		1080	6.4		1450	8.0		1320	9.6		1	EL63.32.7
		40	550	4.0		800	6.0		1060	8.0		1500	10.0		1700	12.0		1	EL63.40.7
		50	270	5.0		410	7.5		540	10.0		705	12.5		830	15.0		2	EL63.50.7
		63	250	6.3		385	9.45		465	12.6		560	15.75		695	18.9		2	EL63.63.7
80	21	80	265	8.0	87.2	405	12.0	91.2	520	16.0	95.1	650	20.0	99.2	800	24.0	103.2	1	EL63.80.7
		100	230	10.0		350	15.0		455	20.0		590	25.0		710	30.0		1	EL80.100.7
		125	250	12.5		390	18.7		510	25.0		630	31.25		785	37.5		1	EL80.125.7
		32	535	3.2		730	4.8		1080	6.4		1450	8.0		1320	9.6		1	EL80.32.7
		40	550	4.0		800	6.0		1060	8.0		1500	10.0		1700	12.0		1	EL80.40.7
		50	500	5.0		680	7.5		950	10.0		1220	12.5		1590	15.0		1	EL80.50.7
100	21	63	500	6.3	109	740	9.45	114	980	12.6	119	1210	15.75	124	1620	18.9	129	1	EL80.63.7
		80	430	8.0		630	12.0		830	16.0		850	20.0		1340	24.0		1	EL80.80.7
		100	430	10.0		670	15.0		850	20.0		1060	25.0		1170	30.0		1	EL80.100.7
		125	400	12.5		570	18.7		730	25.0		945	31.25		1150	37.5		1	EL80.125.7
		32	900	3.2		1650	4.8		1800	6.4		3100	8.0		-	9.6		1	EL100.32.7
		40	910	4.0		1300	6.0		1900	8.0		2450	10.0		3200	12.0		1	EL100.40.7
125	27	50	890	5.0	133	1350	7.5	138	1780	10.0	143	2380	12.5	149	3090	15.0	155	1	EL100.50.7
		63	710	6.3		1100	9.45		1360	12.6		1700	15.75		2170	18.9		1	EL100.63.7
		80	885	8.0		1200	12.0		1520	16.0		1950	20.0		2600	24.0		1	EL100.80.7
		100	680	10.0		1000	15.0		1320	20.0		1650	25.0		2060	30.0		1	EL100.100.7
		125	640	12.5		980	18.7		1250	25.0		1580	31.25		1950	37.5		1	EL100.125.7
125	27	80	1100	8.0	130	1300	12.0	135	2100	16.0	140	2600	20.0	145	3400	24.0	150	1	EL125.80.7
125	27	160	1000	16.0	133	1500	24.0	138	2000	32.0	143	2550	40.0	149	3300	48.0	155	1	EL125.160.7



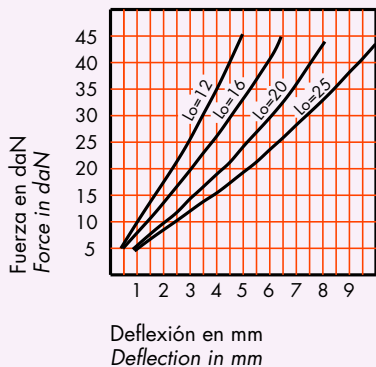
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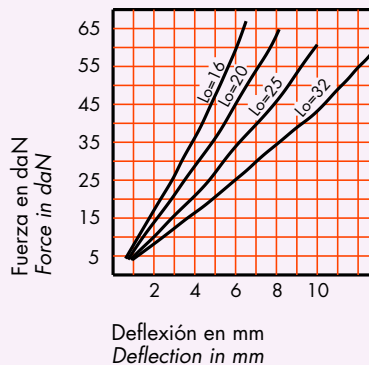
# Resortes en elastómeros Elastomers springs

## FKK - 70 Shore

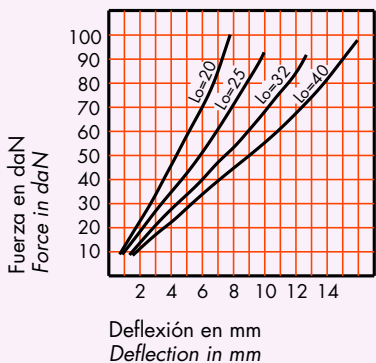
Ø 16 x Ø 6.5 x Lo



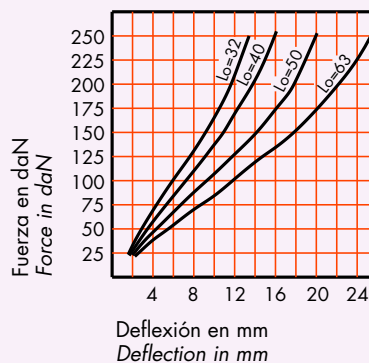
Ø 20 x Ø 8.5 x Lo



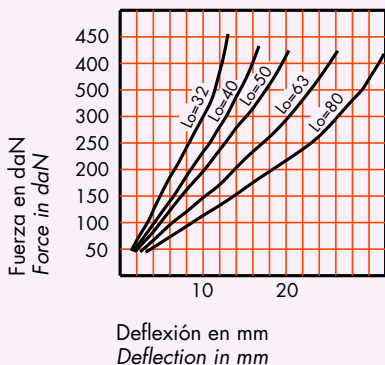
Ø 25 x Ø 10.5 x Lo



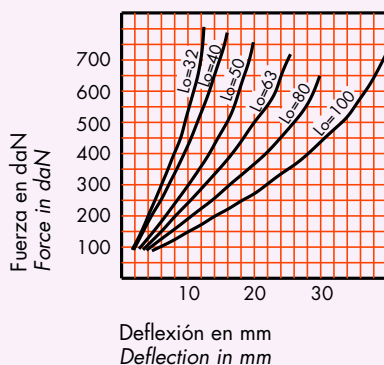
Ø 32 x Ø 13.5 x Lo



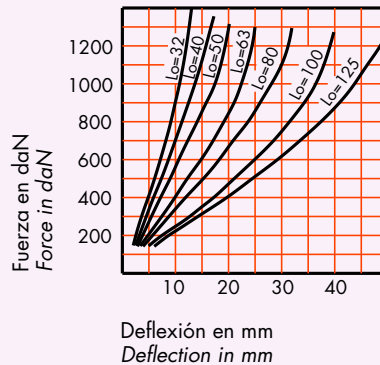
Ø 40 x Ø 13.5 x Lo



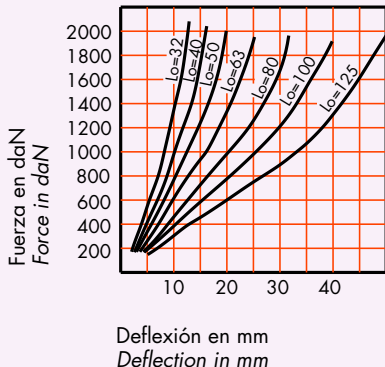
Ø 50 x Ø 17 x Lo



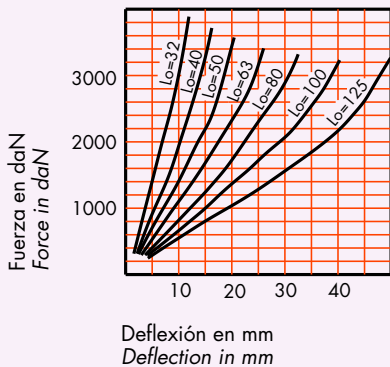
Ø 63 x Ø 17 x Lo



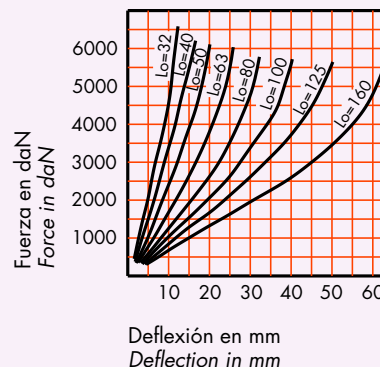
Ø 80 x Ø 21 x Lo



Ø 100 x Ø 21 x Lo

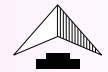


Ø 125 x Ø 27 x Lo



# Resortes en elastómeros

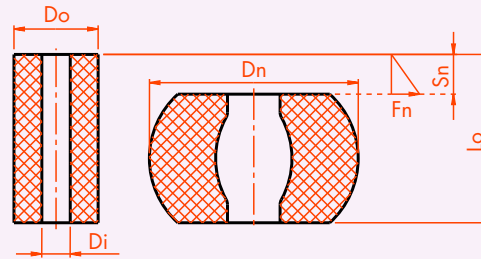
## Elastomers springs



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 DUREZA: 80 +/- 2 Shore  
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 Di - Diámetro interior en mm  
 Dn - Diámetro exterior en mm con 30% (máx.) de deformación de Lo  
 Lo - Longitud total en mm  
 Fn - Carga en N con 30 % (máx.) de deformación de Lo  
 Sn - Longitud en mm con 30 % (máx.) de deformación de Lo



MATERIAL: Elastómero  
 DUREZA: 80 +/- 2 Shore  
 Da - Outside diameter in mm  
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 Dn - Outside diameter in mm at 30% (max.) deformation of Lo  
 Lo - Free length in mm  
 Fn - Load in N at 30 % (max.) deformation of Lo  
 Sn - Length in mm at 30 % (max.) deformation of Lo

Do mm	Di mm	Lo mm	Sn = 0.10 Lo			Sn = 0.15 Lo			Sn = 0.20 Lo			Sn = 0.25 Lo			Sn = 0.30 Lo			Cantidad min. Quantity min.	Referencia Reference
			Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn		
16	6.5	12	32	1.2	17.4	43	1.8	18.2	54	2.4	19	69	3.0	19.8	85	3.6	20.6	10	EL16.12.8
		16	27	1.6		38	2.4		57	3.2		76.5	4.0		104	4.8		10	EL16.16.8
		20	27	2.0		37	3.0		54.5	4.0		71	5.0		104	6.0		10	EL16.20.8
		25	25	2.5		39	3.75		55.5	5.0		76	6.25		113	7.5		10	EL16.25.8
20	8.5	16	36	1.6	21.8	51	2.4	22.8	50	3.2	23.8	90	6.0	24.8	120	4.8	25.8	10	EL20.16.8
		20	35	2.0		50	3.0		69	4.0		86	5.0		115	6.0		10	EL20.20.8
		25	36	2.5		54	3.75		70	5.0		92	6.25		120	7.5		10	EL20.25.8
25	10.5	32	37	3.2	27.3	55	4.8	28.5	76	6.4	29.8	98	8.0	31	126	9.6	32.3	10	EL20.32.8
		20	70	2.0		100	3.0		122	4.0		158	5.0		190	6.0		5	EL25.20.8
		25	69	2.5		99	3.75		124	5.0		160	6.25		200	7.5		5	EL25.25.8
		32	68	3.2		98	4.8		130	6.4		162	8.0		170	9.6		5	EL25.32.8
32	13.5	40	67	4.0	34.9	100	6.0	36.5	132	8.0	38.1	164	10.0	39.7	210	12.0	41.3	5	EL25.40.8
		32	100	3.2		152	4.8		215	6.4		255	8.0		320	9.6		5	EL32.32.8
		40	105	4.0		151	6.0		205	8.0		260	10.0		325	12.0		5	EL32.40.8
40	13.5	50	110	5.0	43.6	150	7.5	45.6	208	10.0	47.6	256	12.5	49.6	325	15.0	51.6	5	EL32.50.8
		63	125	6.3		178	9.45		212	12.6		265	15.75		335	18.9		5	EL32.63.8
		32	130	3.2		180	4.8		260	6.4		340	8.0		420	9.6		3	EL40.32.8
		40	120	4.0		175	6.0		250	8.0		320	10.0		425	12.0		3	EL40.40.8
50	17	50	125	5.0	43.6	190	7.5	45.6	260	10.0	47.6	350	12.5	49.6	450	15.0	51.6	3	EL40.50.8
		63	135	6.3		200	9.45		265	12.6		350	15.75		455	18.9		3	EL40.63.8
		80	130	8.0		200	12.0		275	16.0		355	20.0		460	24.0		3	EL40.80.8
		32	250	3.2		340	4.8		415	6.4		600	8.0		890	9.6		3	EL50.32.8
		40	235	4.0		345	6.0		460	8.0		590	10.0		770	12.0		3	EL50.40.8
		50	240	5.0		320	7.5		470	10.0		600	12.5		800	15.0		3	EL50.50.8
63	17	63	220	6.3	54.5	350	9.45	57	440	12.6	59.5	580	15.75	62	790	18.9	64.5	2	EL50.63.8
		80	230	8.0		330	12.0		450	16.0		590	20.0		770	24.0		2	EL50.80.8
		100	200	10.0		290	15.0		400	20.0		560	25.0		700	30.0		2	EL50.100.8
		32	400	3.2		580	4.8		800	6.4		1100	8.0		1220	9.6		2	EL63.32.8
80	21	40	410	4.0	68.7	600	6.0	71.8	930	8.0	75	1200	10.0	78.2	1400	12.0	81.3	2	EL63.40.8
		50	380	5.0		560	7.5		750	10.0		1000	12.5		1200	15.0		2	EL63.50.8
		63	330	6.3		540	9.45		700	12.6		880	15.75		1170	18.9		2	EL63.63.8
		80	400	8.0		600	12.0		740	16.0		1000	20.0		1300	24.0		1	EL63.80.8
		100	350	10.0		550	15.0		720	20.0		960	25.0		1210	30.0		1	EL63.100.8
		125	375	12.5		555	18.7		760	25.0		940	31.25		1225	37.5		1	EL63.125.8
100	21	32	510	3.2	87.2	800	4.8	91.2	1115	6.4	95.1	1750	8.0	99.2	1800	9.6	103.2	1	EL80.32.8
		40	600	4.0		825	6.0		1300	8.0		1450	10.0		1750	12.0		1	EL80.40.8
		50	515	5.0		810	7.5		1120	10.0		1400	12.5		1850	15.0		1	EL80.50.8
		63	500	6.3		750	9.45		1110	12.6		1350	15.75		1760	18.9		1	EL80.63.8
		80	590	8.0		755	12.0		1005	16.0		1345	20.0		1880	24.0		1	EL80.80.8
125	27	100	505	10.0	109	790	15.0	114	1100	20.0	119	1350	25.0	124	1800	30.0	129	1	EL80.100.8
		125	500	12.5		750	18.7		1200	25.0		1300	31.25		1850	37.5		1	EL80.125.8
		32	800	3.2		1400	4.8		1750	6.4		2700	8.0		3250	9.6		1	EL100.32.8
		40	1000	4.0		1250	6.0		2000	8.0		2450	10.0		3000	12.0		1	EL100.40.8
		50	900	5.0		1450	7.5		1900	10.0		2500	12.5		3200	15.0		1	EL100.50.8
		63	860	6.3		1385	9.45		1960	12.6		2480	15.75		3280	18.9		1	EL100.63.8
125	27	80	985	8.0	133	1250	12.0	138	1800	16.0	143	2400	20.0	149	3200	24.0	155	1	EL100.80.8
		100	830	10.0		1300	15.0		1880	20.0		2500	25.0		3265	30.0		1	EL100.100.8
		125	850	12.5		1290	18.7		1910	25.0		2480	31.25		3300	37.5		1	EL100.125.8
		80	1700	8.0		2350	12.0		3115	16.0		4250	20.0		5500	24.0		1	EL125.80.8
125	160	1550	16.0	2400	24.0	3200	32.0	4200	40.0	5600	48.0	1	EL125.160.8						



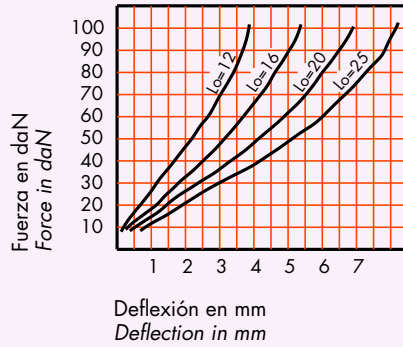
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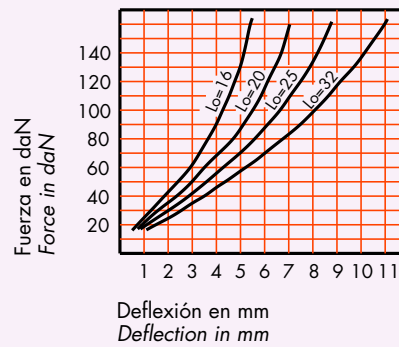
# Resortes en elastómeros Elastomers springs

## FKK - 80 Shore

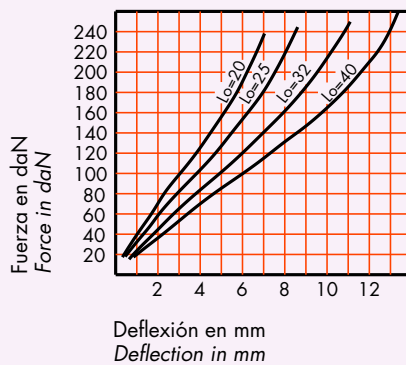
Ø 16 x Ø 6.5 x Lo



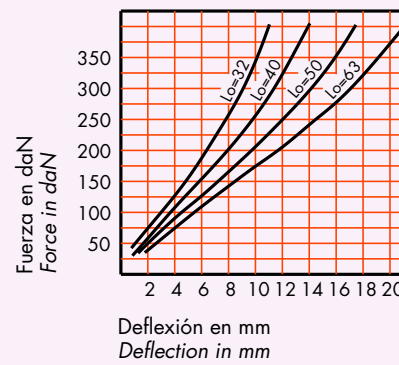
Ø 20 x Ø 8.5 x Lo



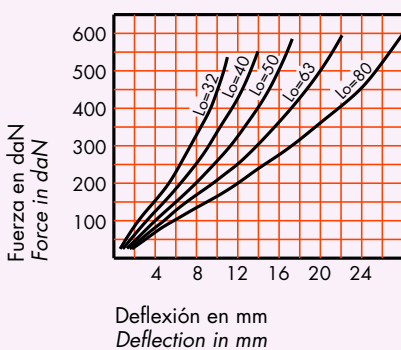
Ø 25 x Ø 10.5 x Lo



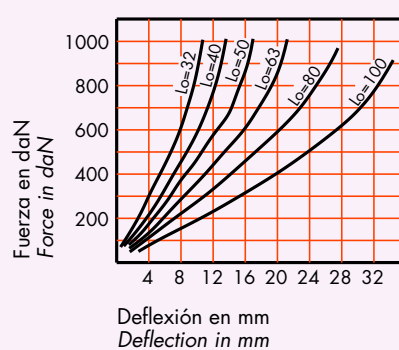
Ø 32 x Ø 13.5 x Lo



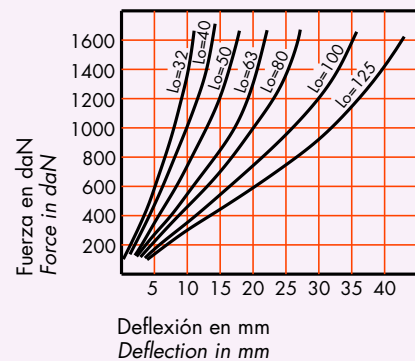
Ø 40 x Ø 13.5 x Lo



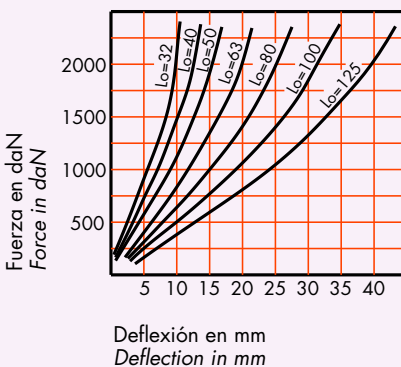
Ø 50 x Ø 17 x Lo



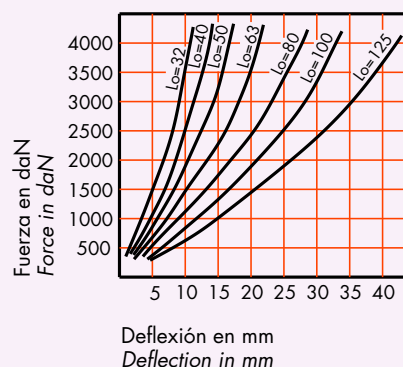
Ø 63 x Ø 17 x Lo



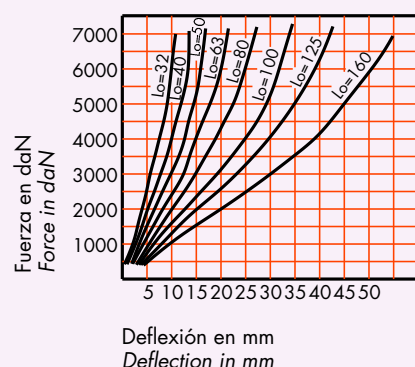
Ø 80 x Ø 21 x Lo



Ø 100 x Ø 21 x Lo

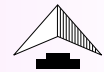


Ø 125 x Ø 27 x Lo



# Resortes en elastómeros

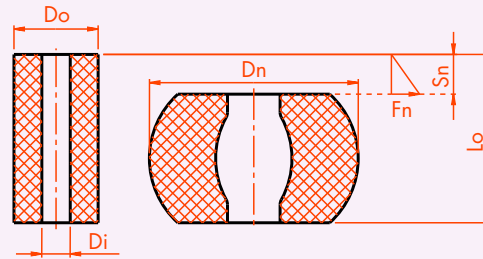
## Elastomers springs



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MATERIAL: Elastómero  
 DUREZA: 92 +/- 2 Shore  
 Da - Diámetro exterior en mm  
 Di - Diámetro interior en mm  
 Dn - Diámetro exterior en mm con 30% (máx.) de deformación de Lo  
 Lo - Longitud total en mm  
 Fn - Carga en N con 30 % (máx.) de deformación de Lo  
 Sn - Longitud en mm con 30 % (máx.) de deformación de Lo



MATERIAL: Elastómero  
 DUREZA: 92 +/- 2 Shore  
 Da - Outside diameter in mm  
 Di - Inside diameter in mm  
 Dn - Outside diameter in mm at 30% (max.) deformation of Lo  
 Lo - Free length in mm  
 Fn - Load in N at 30 % (max.) deformation of Lo  
 Sn - Length in mm at 30 % (max.) deformation of Lo

Do mm	Di mm	Lo mm	Sn = 0.10 Lo			Sn = 0.15 Lo			Sn = 0.20 Lo			Sn = 0.25 Lo			Sn = 0.30 Lo			Cantidad min. Quantity min.	Referencia Reference
			Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn	Fn (daN)	Sn (daN)	Dn		
16	6.5	12	41.5	1.2		62	1.8		82	2.4		110	3.0		149	3.6		10	EL16.12.9
		16	47.5	1.6		57	2.4		93.5	3.2		126	4.0		175	4.8		10	EL16.16.9
		20	47.5	2.0	17.4	64	3.0	18.2	91	4.0	19	120	5.0	19.8	182	6.0	20.6	10	EL16.20.9
		25	46.5	2.5		64	3.75		91.5	5.0		128	6.25		196	7.5		10	EL16.25.9
20	8.5	16	83	1.6		112	2.4		149	3.2		205	6.0		280	4.8		10	EL20.16.9
		20	79	2.0		110	3.0	22.8	146	4.0	23.8	202	5.0	24.8	300	6.0	25.8	10	EL20.20.9
		25	79	2.5	21.8	115	3.75	22.8	149	5.0	23.8	205	6.25	24.8	296	7.5	25.8	10	EL20.25.9
25	10.5	32	78	3.2		110	4.8		151	6.4		212	8.0		289	9.6		10	EL20.32.9
		20	139	2.0		180	3.0		251	4.0		350	5.0		521	6.0		5	EL25.20.9
		25	133	2.5	27.3	190	3.75	28.5	255	5.0	29.8	360	6.25	31	543	7.5	32.3	5	EL25.25.9
32	13.5	32	128	3.2		180	4.8		249	6.4		340	8.0		558	9.6		5	EL25.32.9
		40	129	4.0		180	6.0		256	8.0		365	10.0		517	12.0		5	EL25.40.9
		32	180	3.2		260	4.8		338	6.4		440	8.0		632	9.6		5	EL32.32.9
		40	172	4.0	34.9	245	6.0	36.5	317	8.0	38.1	405	10.0	39.7	567	12.0	41.3	5	EL32.40.9
40	13.5	50	187	5.0		265	7.5		353	10.0		475	12.5		672	15.0		5	EL32.50.9
		63	192	6.3		275	9.45		360	12.6		495	15.75		670	18.9		5	EL32.63.9
		32	300	3.2		450	4.8		572	6.4		750	8.0		1050	9.6		3	EL40.32.9
		40	334	4.0		500	6.0		681	8.0		940	10.0		1420	12.0		3	EL40.40.9
50	17	50	325	5.0	43.6	480	7.5	45.6	625	10.0	47.6	840	12.5	49.6	1220	15.0	51.6	3	EL40.50.9
		63	330	6.3		490	9.45		620	12.6		820	15.75		1190	18.9		3	EL40.63.9
		80	350	8.0		495	12.0		650	16.0		885	20.0		1235	24.0		3	EL40.80.9
		32	515	3.2		800	4.8		980	6.4		1300	8.0		1835	9.6		3	EL50.32.9
63	17	40	490	4.0		700	6.0		930	8.0		1220	10.0		1780	12.0		3	EL50.40.9
		50	480	5.0	54.5	670	7.5	57	895	10.0	59.5	1205	12.5	62	1800	15.0	64.5	3	EL50.50.9
		63	515	6.3		740	9.45		960	12.6		1280	15.75		1860	18.9		2	EL50.63.9
		80	490	8.0		680	12.0		930	16.0		1250	20.0		1740	24.0		2	EL50.80.9
80	21	100	480	10.0		610	15.0		900	20.0		1200	25.0		1650	30.0		2	EL50.100.9
		32	725	3.2		1150	4.8		1410	6.4		1900	8.0		2605	9.6		2	EL63.32.9
		40	760	4.0		1100	6.0		1460	8.0		1890	10.0		2620	12.0		2	EL63.40.9
		50	800	5.0		1150	7.5		1550	10.0		2100	12.5		2900	15.0		2	EL63.50.9
100	21	63	840	6.3	68.7	1220	9.45	71.8	1590	12.6	75	2000	15.75	78.2	2870	18.9	81.3	2	EL63.63.9
		80	840	8.0		1200	12.0		1620	16.0		2150	20.0		3240	24.0		1	EL63.80.9
		100	810	10.0		1170	15.0		1550	20.0		2100	25.0		2970	30.0		1	EL63.100.9
		125	910	12.5		1350	18.7		1790	25.0		2550	31.25		-	37.5		1	EL63.125.9
125	27	32	1350	3.2		2200	4.8		2710	6.4		3550	8.0		5000	9.6		1	EL80.32.9
		40	1450	4.0		2000	6.0		2600	8.0		3500	10.0		4700	12.0		1	EL80.40.9
		50	1500	5.0		2005	7.5		2910	10.0		3700	12.5		5700	15.0		1	EL80.50.9
		63	1420	6.3	87.2	2100	9.45	91.2	2690	12.6	95.1	3600	15.75	99.2	5240	18.9	103.2	1	EL80.63.9
125	27	80	1500	8.0		2050	12.0		2820	16.0		3800	20.0		5600	24.0		1	EL80.80.9
		100	1440	10.0		2000	15.0		2740	20.0		3750	25.0		5600	30.0		1	EL80.100.9
		125	1400	12.5		2000	18.7		2700	25.0		3600	31.25		4590	37.5		1	EL80.125.9
		32	2000	3.2		3300	4.8		4100	6.4		5500	8.0		7000	9.6		1	EL100.32.9
125	27	40	2400	4.0		3100	6.0		5000	8.0		7000	10.0		4000	12.0		1	EL100.40.9
		50	2500	5.0		3800	7.5		5400	10.0		8000	12.5		11000	15.0		1	EL100.50.9
		63	2320	6.3	109	3500	9.45	114	4530	12.6	119	8900	15.75	124	9550	18.9	129	1	EL100.63.9
		80	2600	8.0		3700	12.0		5100	16.0		7500	20.0		10900	24.0		1	EL100.80.9
125	27	100	2240	10.0		3150	15.0		4260	20.0		5700	25.0		8930	30.0		1	EL100.100.9
		125	2240	12.5		3300	18.7		4500	25.0		6000	31.25		8100	37.5		1	EL100.125.9
125	27	80	4200	8.0	130	6400	12.0	135	8500	16.0	140	11800	20.0	145	-	24.0	150	1	EL125.80.9
125	27	160	3700	16.0	133	5300	24.0	138	7000	32.0	143	10100	40.0	149	15000	48.0	155	1	EL125.160.9





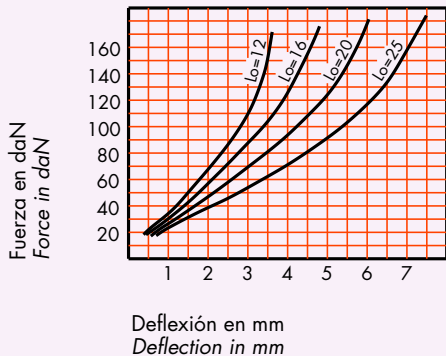
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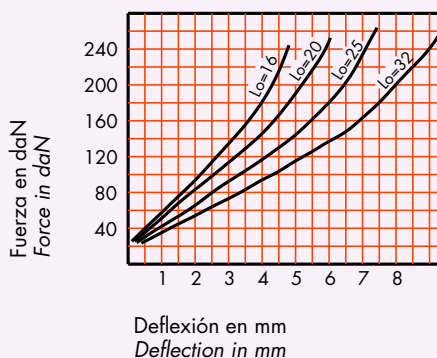
# Resortes en elastómeros Elastomers springs

## FKK - 90 Shore

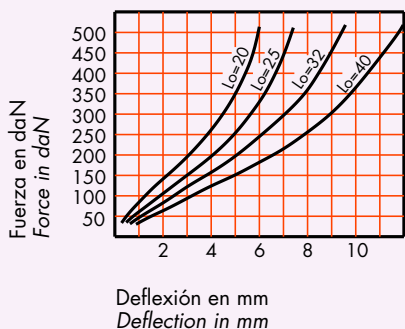
Ø 16 x Ø 6.5 x Lo



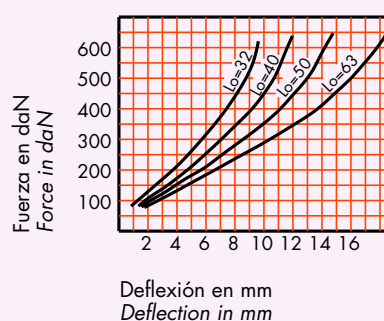
Ø 20 x Ø 8.5 x Lo



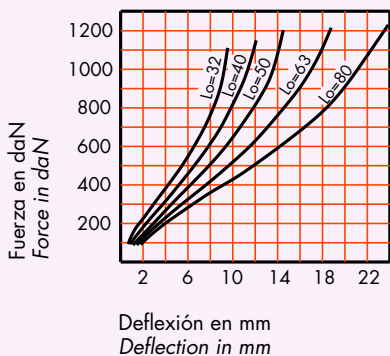
Ø 25 x Ø 10.5 x Lo



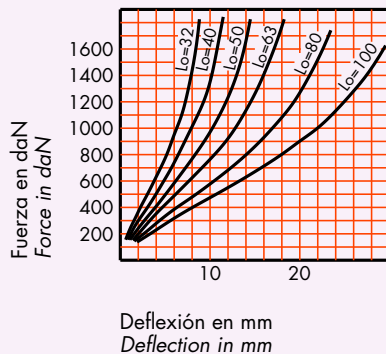
Ø 32 x Ø 13.5 x Lo



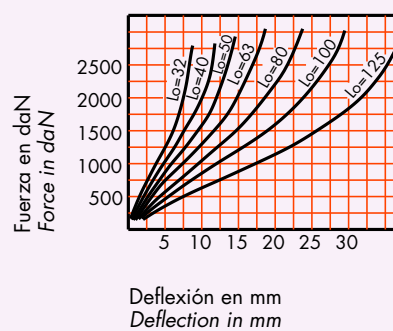
Ø 40 x Ø 13.5 x Lo



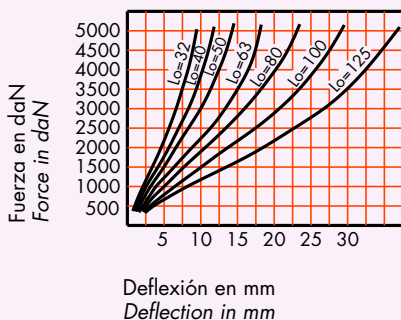
Ø 50 x Ø 17 x Lo



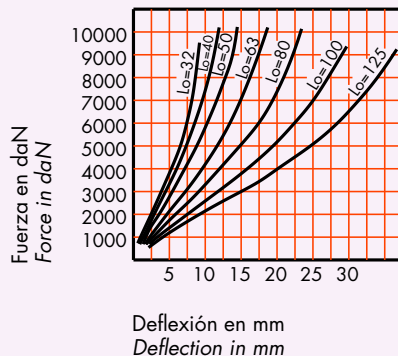
Ø 63 x Ø 17 x Lo



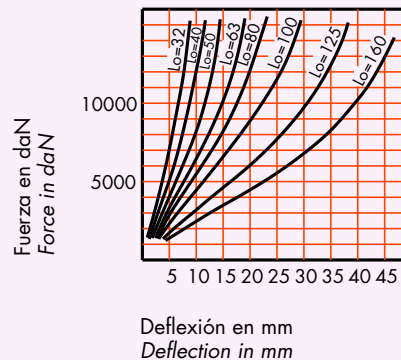
Ø 80 x Ø 21 x Lo



Ø 100 x Ø 21 x Lo



Ø 125 x Ø 27 x Lo

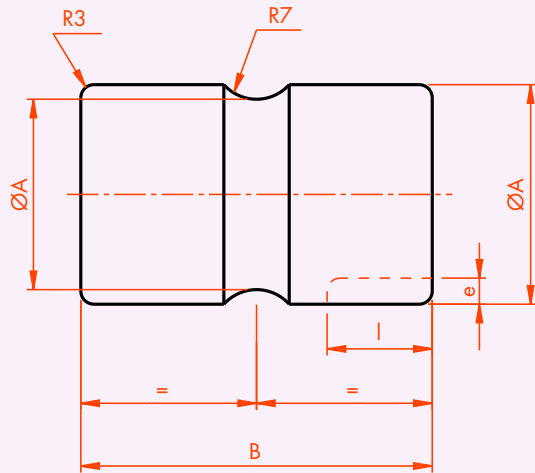


# Amortiguadores para placas flotantes de troqueles

## Die floating plates' shock absorbers



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Tolerancias según norma DIN 7715 M3  
 Tolerances according to norm DIN 7715 M3

### PARA UTILAJES DE PRENSA

90 Shore

Tienen por objeto eliminar el ruido producido por las placas flotantes de los troqueles durante la fabricación de piezas (carrocerías, etc).

Son especialmente resistentes a:

- Los calentamientos.
- Las rupturas.
- Los aceites.

### FOR PRESS TOOLS

90 Shore

Their purpose is to eliminate the noise from the floating plates of the dies during parts manufactures ( Coachmaker's shops, etc).

They are specially resistant to:

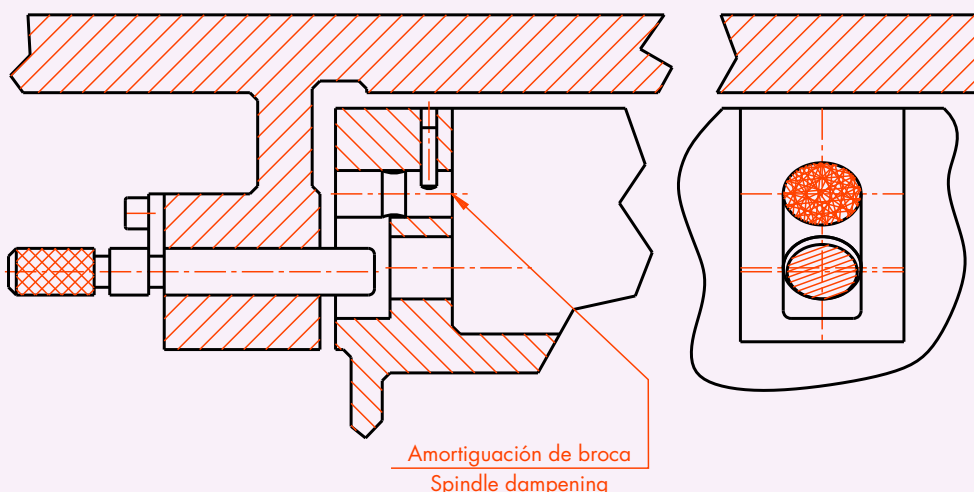
- Heatings.
- Breakages.
- Oils.

A	B	Aplastamiento máximo Maximum flattening		Longitud de apoyo Supporting length	Energía máx. Max. energy	Referencia Reference
		%	e			
25	45	12	3	17	2	AMBR.24
25	50	12	3	20	3	AMBR.25
32	50	18	6	17	7	AMBR.35
32	60	18	6	25	8	AMBR.36
40	60	15	6	25	15	AMBR.46
50	70	16	8	30	30	AMBR.57
50	80	16	8	35	32	AMBR.58
63	80	12	8	35	50	AMBR.68
80	90	-	-	34	-	AMBR.89

Dimensiones en mm.

Dimensions in mm.

### EJEMPLO DE MONTAJE / APPLICATION EXAMPLES







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# Extractor de punzones Punch extractor

90 Shore

La longitud del extractor debe ser de 1 a 2 mm. superior a la del punzón.

Pueden ser cortados a la longitud que se necesite.

Se colocan ajustados sobre todos los punzones cilíndricos de forma redonda, cuadrada, oval, triangular, etc. Proporcionan:

- Ninguna alteración de las piezas punzonadas.
- Gran capacidad de desalojo.
- Eficacia de larga duración.
- Máxima resistencia al desgaste y a la abrasión.
- Mejor resistencia de los punzones a la llama.
- Amortiguación de ruidos.

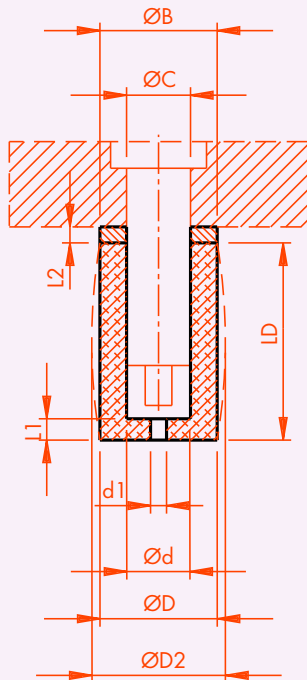
90 Shore

The extractor length has to be between 1 and 2 mm higher than the punch one.

They can be cut up to the required length.

They go adjusted located over all round, square, oval, triangular, etc. Shaped cylindrical punches. They give:

- No alteration in the punched parts.
- Big extracting capacity
- Long duration efficacy
- Maximum resistance to wear and abrasion.
- Best resistance of the punches in flame.
- Noise dampening.



Tolerancias según norma DIN 7715 M3  
 Tolerances according to norm DIN 7715 M3

Referencia Reference	d	d1	D	L1	LD	Fuerza (N) para carreras de ... Force (N) for strokes of ...		
						3mm	6mm	9mm
DV.04.45	4	1.6	17	5	45	600	1500	-
DV.06.55	6	1.6	19	5	55	650	1200	1800
DV.08.55	8	3	21	5	55	700	1300	2100
DV.10.55	10	3	23	5	55	900	1600	2400
DV.13.55	13	3	26	5	55	1100	1900	3000
DV.16.55	16	3	30	5	55	1400	2300	3700
DV.20.55	20	3	38	5	55	2100	3600	5500
DV.25.55	25	3	50	5	55	3700	6500	10200

Dimensiones en mm.

Dimensions in mm.

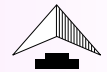
* Diámetro de apoyo Supporting diameter		
B	C	L2
50	25.2	3
55	32.2	3
63	40.2	3

Dimensiones en mm.

Dimensions in mm.

Referencia Reference	Dimensiones (mm) Dimensions					Fuerza para una carrera (daN) Force for a stroke of						Diámetro de punzón Punch diameter
	d	d1	D	L1	LD	3mm	D2	6.5mm	D2	9.5mm	D2	
DP.08.48.5	7.3 ±0.2	3	21	5	48.5	80	22.5	149	24	260	25.5	8
DP.10.48.5	9.3 ±0.2	3	23	5	48.5	103	24.5	183	26	295	27.5	10
DP.13.48.5	12.3 ±0.2	3	26	5	48.5	126	27.5	218	29	364	30.5	13
DP.16.48.5	15.3 ±0.2	3	30	5	48.5	160	31.5	260	33	448	34.5	16
DP.20.48.5	18.8 ±0.25	3	38	5	48.5	240	39.5	410	41	674	42.5	20
DP.25.48.5	23.8 ±0.25	3	50	5	48.5	420	51.5	745	55	1210	58	25
DP.25.45.5*	23.8 ±0.25	3	50	5	45.5	455	51.5	810	55	1360	58	25
DP.32.45.5*	31.8 ±0.25	3	55	5	45.5	535	59	900	63	1500	66.5	32
DP.40.45.5*	38.8 ±0.25	3	63	5	45.5	640	67.5	1060	72	1780	76	40
DP.20.55	20 ±0.25	3	38	5	55	210	51.5	360	55	550	58	20
DP.25.55	25 ±0.25	3	50	5	55	370	59	650	63	1020	66.5	25

# Despegadores Strippers



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90 Shore

Utilizados en los útiles y modelos para despegar, eyectar, amortiguar y reducir el nivel de ruidos de los impactos.

Reemplazan ventajosamente sistemas tales como:

- Botones de muelle, topes, etc.

## Montaje

Un agujero ciego es suficiente para alojar el amortiguador, tiene una ranura para facilitar la evacuación del aire en el momento de colocarlo.

90 Shore

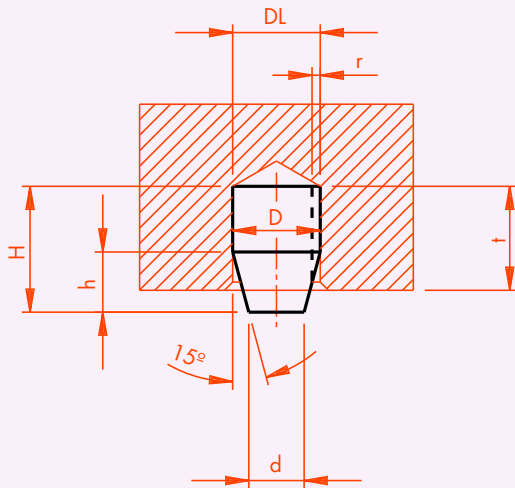
They are used in the tools and models to strip, eject, damp and reduce the noise level from the impacts.

They replace with advantages others systems as:

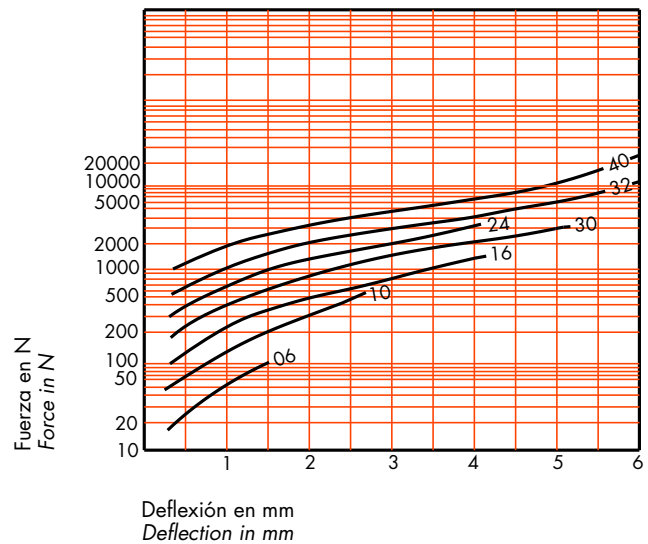
- Spring bottoms, stoppers, etc.

## Assembly

A blind hole is enough to allow the shock absorber, it has a slot to facilitate the evacuation of the air when locating it.



Tolerancias según norma DIN 7715 M3  
Tolerances according to norm DIN 7715 M3



Referencia Reference	D	H	h	d	r	DL	t	Fuerza (daN) Force
DA.06	6	9.5	4.5	3.6	-	6	8	10
DA.10	10	15.5	7.5	6	1	10	13	45
DA.16	16	25	12	9.5	1.5	16	21	150
DA.24	24	25	10	18	2	24	21	300
DA.30	30	35	19	20	2.5	30	30	300
DA.32	32	32	14	24	3	32	26	1200
DA.40	40	40	16	30	3	39.5	34	2500

Dimensiones en mm.

Dimensions in mm.

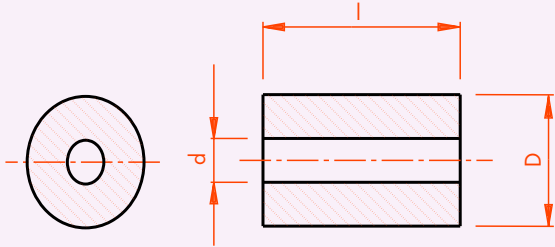


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# Tiras huecas, llenas, cortadas *Hollow, full and cut strips*

## TIRAS HUECAS / HOLLOW STRIPS

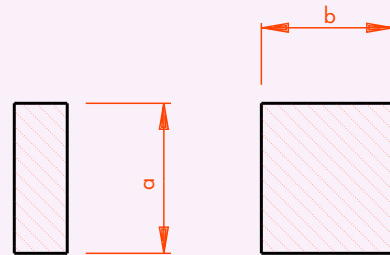


Referencia Reference	D	d	l	FKK	
				80 sh	90 sh
JC 16.300	16	6.5	300	X	X
JC 20.300	20	8.5	300	X	X
JC 25.300	25	10.5	300	X	X
JC 32.300	32	13.5	300	X	X
JC 40.300	40	13.5	300	X	X
JC 50.400	50	17	400	X	X
JC 63.400	63	17	400	X	X
JC 80.400	80	21	400	X	X
JC 100.300	100	21	300	X	X
JC 125.300	125	27	300	X	X

Dimensiones en mm.

Dimensions in mm.

## PLACAS / PLATES 70, 80, 90 SHORES

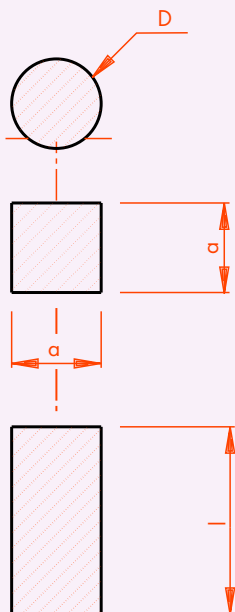


a	b	h	FKK	
			80 sh	90 sh
200	100	10 / 20 / 40 / 60	X	X
200	200	10 / 20 / 40 / 60	X	X
250	100	10 / 20 / 40 / 60	X	X
250	250	10 / 20 / 40 / 60	X	X
400	200	10 / 20 / 40 / 60	X	X
400	400	10 / 20 / 40 / 60	X	X
500	250	10 / 20 / 40 / 60	X	X
500	500	10 / 20 / 40 / 60	X	X

Dimensiones en mm.

Dimensions in mm.

## TIRAS LLENAS Y CORTADAS / CUT AND FULL STRIPS



Referencia Reference	D	l	FKK	
			80 sh	90 sh
JP 16.300	16	300	X	X
JP 20.300	20	300	X	X
JP 25.300	25	300	X	X
JP 32.300	32	300	X	X
JP 40.300	40	300	X	X
JP 50.400	50	400	X	X
JP 63.400	63	400	X	X
JP 80.400	80	400	X	X
JP 100.300	100	300	X	X
JP 125.300	125	300	X	X

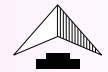
a	a	l	FKK	
			80 sh	90 sh
25	25	1000	X	X
50	50	1000	X	X
75	75	1000	X	X
100	100	1000	X	X
125	125	1000	X	X

Dimensiones en mm.

Dimensions in mm.

# Bloques, anillos y coronas

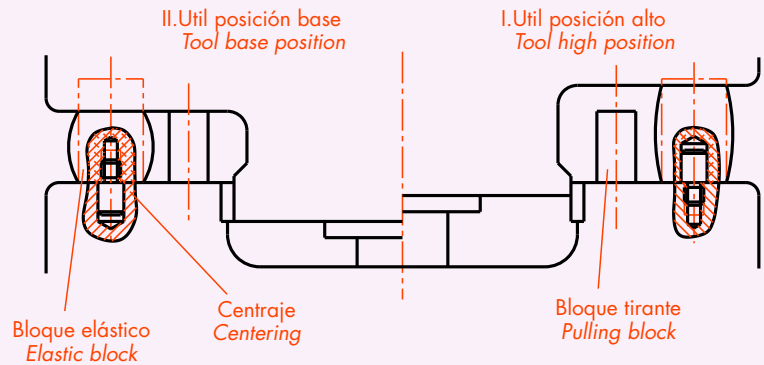
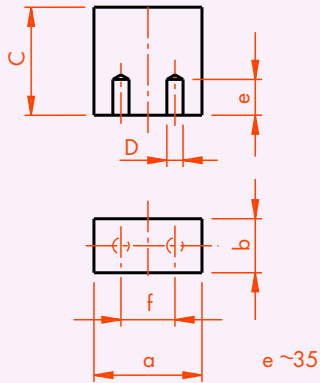
## Blocks, rings and crowns



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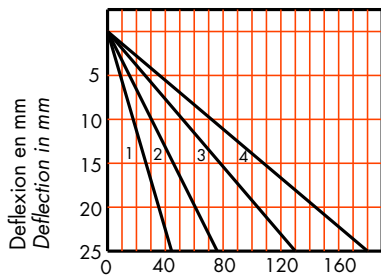
### BLOQUES ELASTICOS ELASTIC BLOCKS



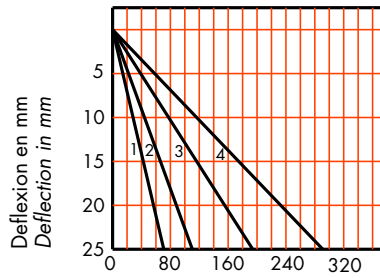
Forma Form	a	b	f	Modelo 85 Model			Modelo 100 Model			Modelo 125 Model		
				c	D	Ref.	c	D	Ref.	c	D	Ref.
1	80	60	36	85	15	BR.185	100	8.5	BR.1100	125	13	BR.1125
2	100	80	50	85	15	BR.285	100	8.5	BR.2100	125	13	BR.2125
3	125	100	60	85	15	BR.385	100	8.5	BR.3100	125	13	BR.3125
4	180	100	100	85	15	BR.485	100	8.5	BR.4100	125	13	BR.4125

Dimensiones en mm.

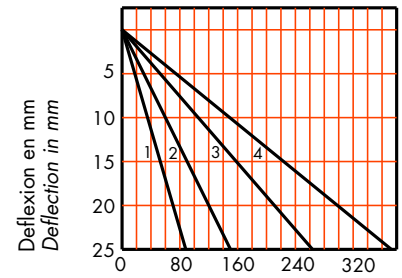
Dimensions in mm.



Fuerza en KN  
Force in KN



Fuerza en KN  
Force in KN



Fuerza en KN  
Force in KN

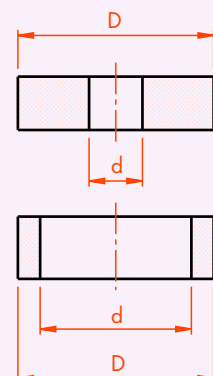
D	d	h	FKK		D	d	h	FKK	
			80 sh	90 sh				80 sh	90 sh
150	105	40	X	X	250	120	25	X	X
150	105	60	X	X	265	174	25	X	X
150	111	30	X	X	300	150	25	X	X
157	105	20	X	X	-	-	-	X	X
165	110	60	X	X	-	-	-	X	X
190	106	25	X	X	-	-	-	X	X

Otras dimensiones bajo pedido / Other dimension under order

Dimensiones en mm.

Dimensions in mm.

### ANILLOS Y CORONAS RINGS AND CROWNS



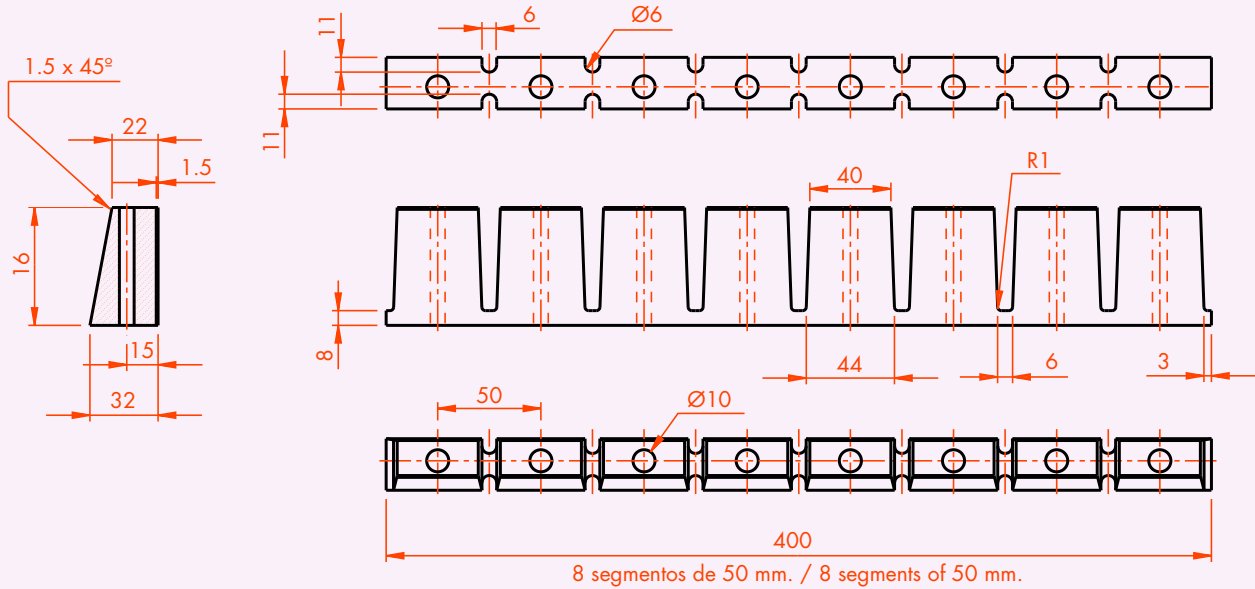


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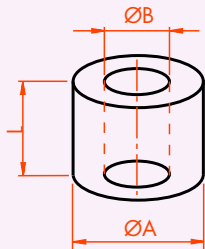
# Extractor flexible FKK FKK Flexible extractor

## EXTRACTOR FLEXIBLE / FLEXIBLE EXTRACTOR Ref. DF.90



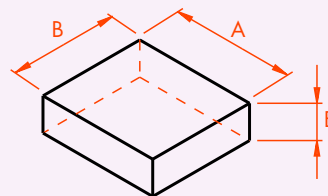
Tolerancias según norma DIN 7715 M3  
 Tolerances according to norm DIN 7715 M3

### CILINDROS / CYLINDERS



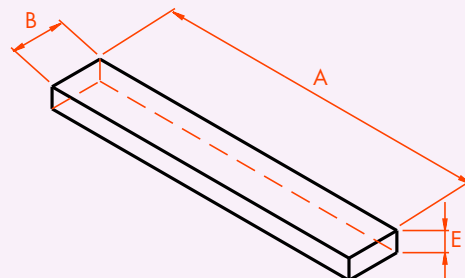
A	B	L	REFERENCIA REFERENCE
20	8.5	65	90 FKK 2065
25	10.5	65	90 FKK 2565

### PLACAS / PLATES



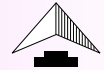
A	B	E	REFERENCIA REFERENCE
200	250	65	90 FKK 250.250
250	500	65	90 FKK 500.500

### BARRAS / BARS



A	B	L	REFERENCIA REFERENCE
1000	100	65	90 FKK 1000.100.65

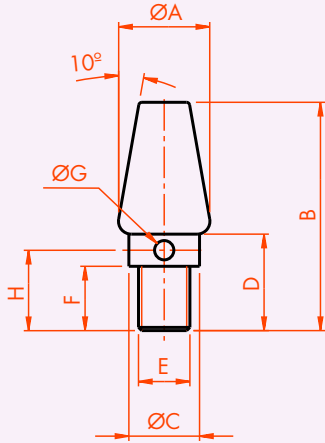
# Muelles para troquel Springs for die



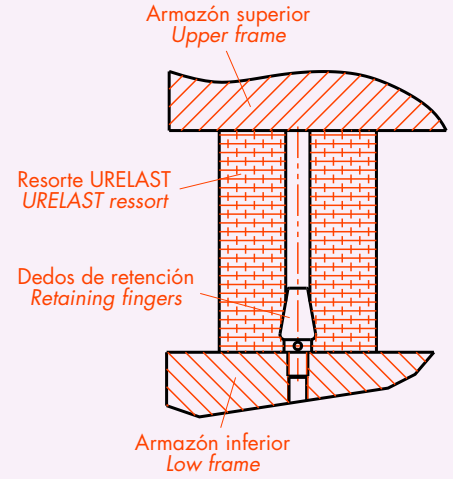
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## DEDOS DE RETENCION RETAINING FINGERS



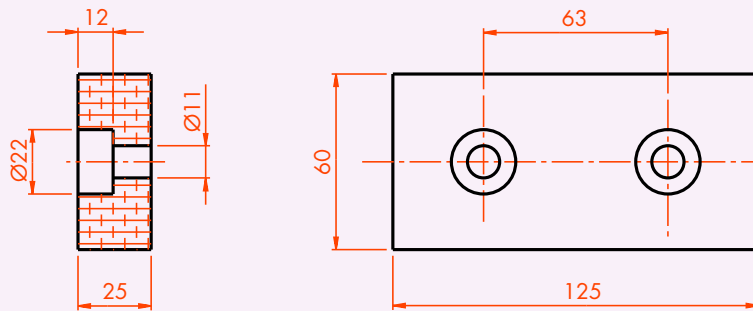
Referencia Reference	DDR.9	DDR.10
Dia.	21	27
A	30	38
B	71	94
C	22	28
Dia.	30	39
E	M16	M20
F	20	24
G	6	6
H	25	31.5



## BLOQUE AMORTIGUADOR / DAMPENING BLOCK

Réf. FKK 125.60.25

90 Shore

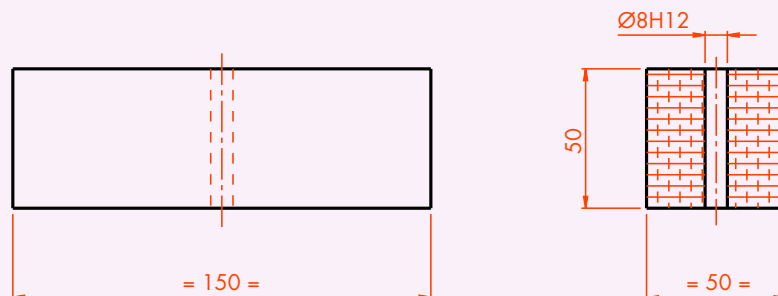


Tolerancia según norma DIN 7715 M3  
Tolerances according to norm DIN 7715 M3

## CALZO DE PROTECCION / PROTECTION SHIM

Réf. FKK 150.50.50

90 Shore



Tolerancia según norma DIN 7715 M3  
Tolerance according to DIN 7715 M3 norm



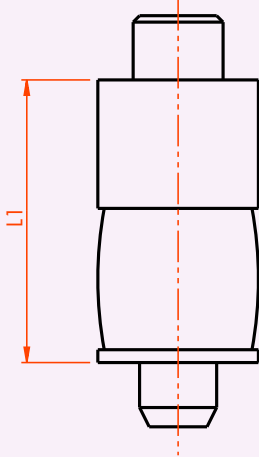


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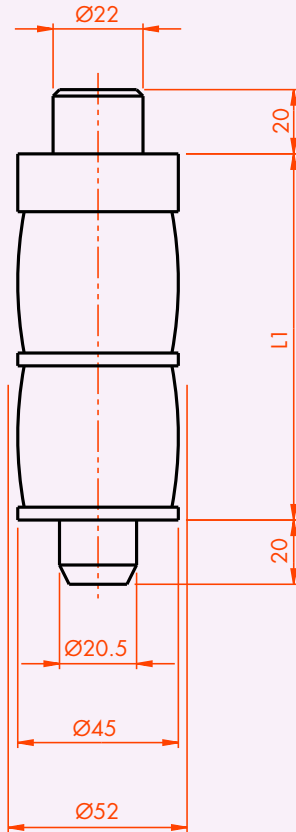
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# Resortes precomprimidos - Dia. 40 Precompressed ressorts - Dia. 40

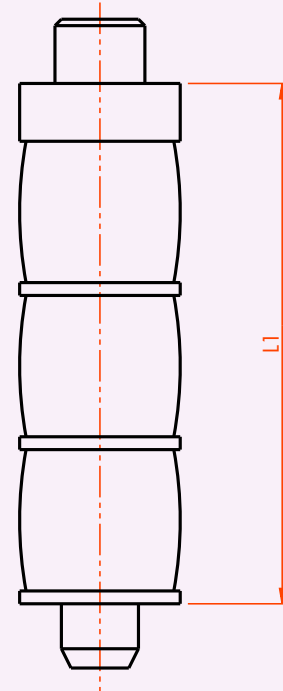
TIPO A TYPE



TIPO B TYPE



TIPO C TYPE



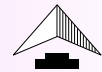
2 TETONES DE CENTRAJE  
2 CENTERING STUBS

90 Shore  
Tolerancia según norma DIN 7715 M2  
Tolerances according to norm DIN 7715 M2

TIPO TYPE	L1 (mm)	Utilización a 30% de Lo / Usage at 30% of Lo				REFERENCIA REFERENCE
		Compresión inicial del muelle Initial compression of the spring	Carrera máxima Maximum stroke	Fuerza (daN) Force		
				Inicial Initial	Final Final	
A	69	5.6	10	240	860	RP40692T
A	76	4	15	140	890	RP40762T
B	100	4	20	180	840	RP401002T
B	122	4	25	165	930	RP401222T
B	143	4	30	140	890	RP401432T
C	188	4	40	155	900	RP401882T

# Resortes precomprimidos - Dia. 50

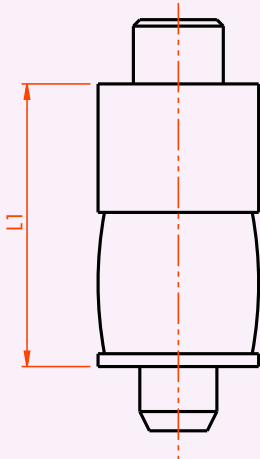
## Precompressed ressorts - Dia. 50



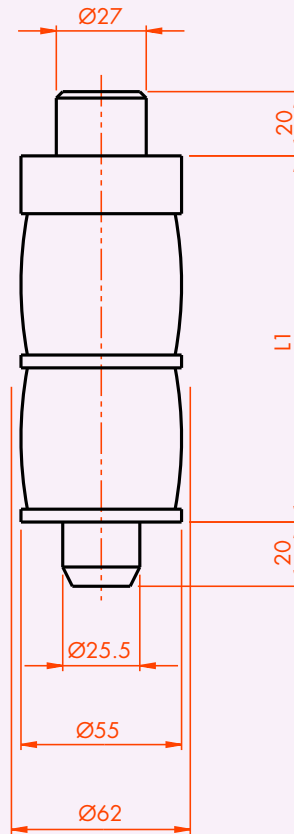
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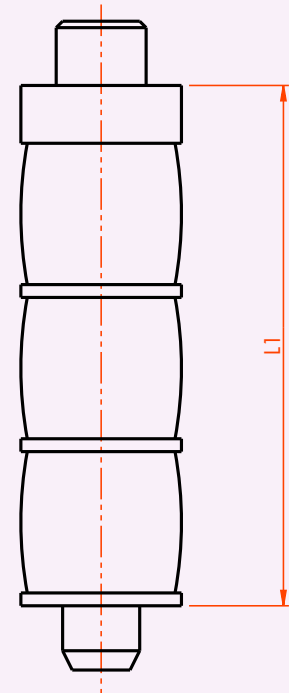
TIPO A TYPE



TIPO B TYPE



TIPO C TYPE



2 TETONES DE CENTRAJE  
 2 CENTERING STUBS

90 Shore  
 Tolerancia según norma DIN 7715 M2  
 Tolerances according to norm DIN 7715 M2

TIPO TYPE	L1 (mm)	Utilización a 30% de Lo / Usage at 30% of Lo				REFERENCIA REFERENCE
		Compresión inicial del muelle Initial compression of the spring	Carrera máxima Maximum stroke	Fuerza (daN) Force		
				Inicial Initial	Final Final	
A	88	7.2	10	410	1230	RP50882T
A	100	4	20	180	1490	RP501002T
B	122	4	25	240	1330	RP501222T
B	143	3.5	30	190	1370	RP501432T
B	188	4	40	180	1490	RP501882T
C	232	4	50	195	1370	RP502322T