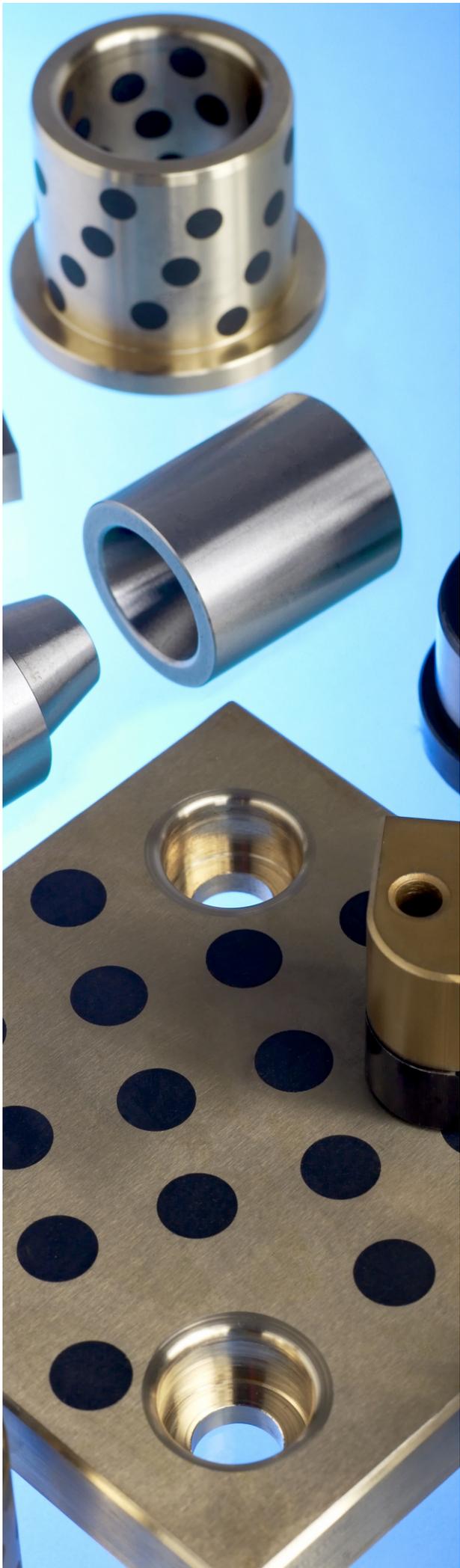


03

GUIADO Y CENTRAJE
MATRICERIA Y MOLDES
BRONCE - GRAFITO

MOULD & DIE GUIDING,
CENTERING & LOCKING
OILLESS PARTS



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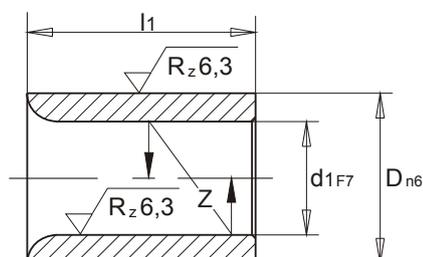
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CASQUILLO LISO GUIA BROCA DIN 179A / ISO 4247 PRECISION HEADLESS JIG BUSHINGS DIN 179A / ISO 4247



MATERIAL: Acero especial al cromo vanadio.
MATERIAL: Case hardened steel.

FABRICACION: Templado. Diametro interior y exterior rectificadas.

FABRICACION: Hardened and tempered. Bore and outside diameter grounded

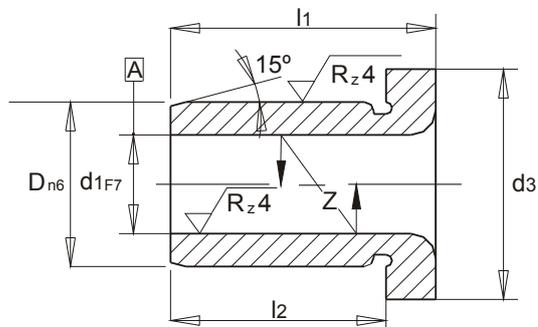
TOLERANCIAS: d1 = F7
TOLERANCES: d1 = F7

d1 (F7)	D (n6)	Z	l1	
			CORTO SHORT	LARGO LONG
1	3	0.005	6	9
1,1 a 1,8	4	0.005	6	9
1,9 a 2,6	5	0.005	6	9
2,7 a 3,3	6	0.005	8	12
3,4 a 4,0	7	0.005	8	12
4,1 a 5,0	8	0.005	8	12
5,1 a 6,0	10	0.01	10	16
6,1 a 8,0	12	0.01	10	16
8,1 a 10,0	15	0.01	12	20
10,1 a 12,0	18	0.01	12	20
12,1 a 15,0	22	0.01	16	28
15,1 a 18,0	26	0.01	16	28
18,1 a 22,0	30	0.01	20	36
22,1 a 26,0	35	0.02	20	36
26,1 a 30,0	42	0.02	25	45

FORMA DE PEDIDO: d1 x l1
ORDER FORM: d1 x l1



CASQUILLO GUIA BROCA CON VALONA DIN 172A / ISO 4247 PRECISION HEADED JIG BUSHINGS DIN 172A / ISO 4247



MATERIAL: Acero especial al cromo vanadio.
MATERIAL: Case hardened steel.

FABRICACION: Templado. Diametro interior y exterior rectificadas.

VERSION: Hardened and tempered. Bore and outside diameter grounded

TOLERANCIAS: d1 = F7

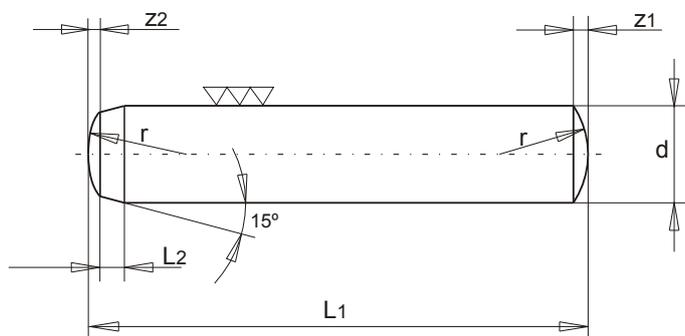
TOLERANCES: D = n6

d1 (F7)	D (n6)	d3	Z	CORTO / SHORT		LARGO / LONG	
				l1	l2	l1	l2
0,9 a 1,0	3	6	0.005	6	4	9	7
1,1 a 1,8	4	7	0.005	6	4	9	7
1,9 a 2,6	5	8	0.005	6	4	9	7
2,7 a 3,3	6	9	0.005	8	5,5	12	9,5
3,4 a 4,0	7	10	0.005	8	5,5	12	9,5
4,1 a 5,0	8	11	0.005	8	5,5	12	9,5
5,1 a 6,0	10	13	0.01	10	7	16	13
6,1 a 8,0	12	15	0.01	10	7	16	13
8,1 a 10,0	15	18	0.01	12	9	20	17
10,1 a 12,0	18	22	0.01	12	8	20	16
12,1 a 15,0	22	26	0.01	16	12	28	24
15,1 a 18,0	26	30	0.01	16	12	28	24
18,1 a 22,0	30	34	0.01	20	15	36	31
22,1 a 26,0	35	39	0.02	20	15	36	31
26,1 a 30,0	42	46	0.02	25	20	45	40

FORMA DE PEDIDO: d1 x l1
ORDER FORM: d1 x l1



PASADOR CILINDRICO DIN 6325 / ISO 8734 DOWEL PIN DIN 6325 / ISO 8734



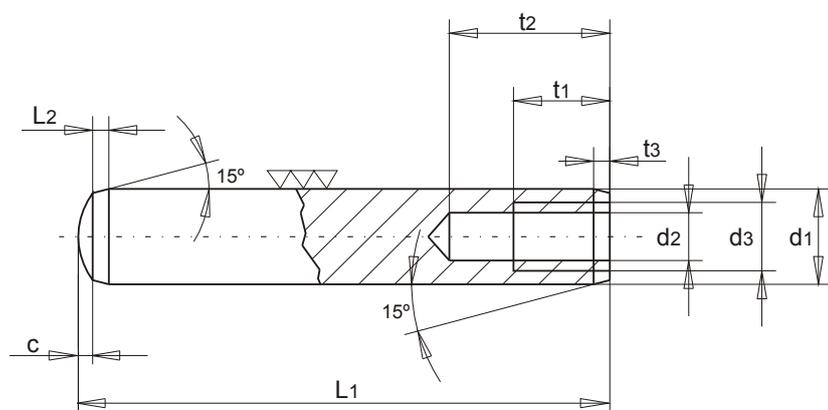
- FABRICACION / VERSION** : Templado hasta el núcleo, rectificado y lapeado.
Fully hardened and tempered. Fine ground finished.
- MATERIAL** : Acero especial indeformable al cromo.
Special chrome steel.
- DUREZA / HARDNESS** : 60 - 62 HRC.
- TOLERANCIA / TOLERANCE** : Diámetro / Diameter : m6
Longitud / length : j14

d (m6)	2	2.5	3	4	5	6	7	8	9	10	12	14	16	18	20
L2	0.6	0.7	0.8	1	1.2	1.5	1.6	1.8	1.8	2	2.5	2.5	3	3.5	4
r (apr.)	2	2.5	3	4	5	6	8	8	10	10	12	16	16	18	20
z1 (apr.)	0.3	0.4	0.45	0.6	0.75	0.9	0.8	1.2	0.8	1.5	1.8	2	2.5	2.4	3
z2 (apr.)	0.18	0.25	0.3	0.4	0.5	0.6	0.62	0.8	0.75	1	1.3	1.3	1.7	1.7	2
L1 (j14)															
6	*	*	*												
8	*	*	*	*	*										
10	*	*	*	*	*	*									
12	*	*	*	*	*	*	*								
14	*	*	*	*	*	*	*	*							
16	*	*	*	*	*	*	*	*	*						
18	*	*	*	*	*	*	*	*	*	*					
20	*	*	*	*	*	*	*	*	*	*	*				
22	*	*	*	*	*	*	*	*	*	*	*	*			
24	*	*	*	*	*	*	*	*	*	*	*	*	*		
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
36			*	*	*	*	*	*	*	*	*	*	*	*	*
40			*	*	*	*	*	*	*	*	*	*	*	*	*
45			*	*	*	*	*	*	*	*	*	*	*	*	*
50			*	*	*	*	*	*	*	*	*	*	*	*	*
55			*	*	*	*	*	*	*	*	*	*	*	*	*
60			*	*	*	*	*	*	*	*	*	*	*	*	*
70				*	*	*	*	*	*	*	*	*	*	*	*
80				*	*	*	*	*	*	*	*	*	*	*	*
90					*	*	*	*	*	*	*	*	*	*	*
100						*	*	*	*	*	*	*	*	*	*
120							*	*	*	*	*	*	*	*	*
130							*	*	*	*	*	*	*	*	*
140							*	*	*	*	*	*	*	*	*
150								*	*	*	*	*	*	*	*

FORMA DE PEDIDO / ORDER FORM : d x L1



PASADOR CILINDRICO CON ROSCA INTERIOR DIN 7979 / ISO 8735 DOWEL PIN DIN 7979 / ISO 8735



- FABRICACION / VERSION** : Templado hasta el núcleo, rectificado y lapeado.
Fully hardened and tempered. Fine ground finished, with air-vent flat.
- MATERIAL** : Acero especial indeformable al cromo.
Special chrome steel.
- DUREZA / HARDNESS** : 60 - 62 HRC.
- TOLERANCIA / TOLERANCE** : Diámetro / Diameter : m6
Longitud / length : j14

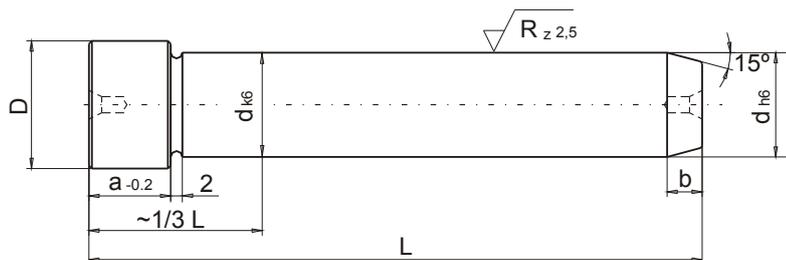
d1 (m6)	5	6	8	10	12	14	16	18	20
d2	M3	M4	M5	M6	M6	M8	M8	M10	M10
d3	3.3	4.3	5.3	6.3	6.3	8.3	8.3	10.3	10.3
t1	4	6	8	10	12	12	16	20	20
t2	6	10	13	16	18	18	23	27	27
t3	1	1	1.2	1.2	1.2	1.2	1.6	1.6	1.6
C. máx.	0.7	0.9	1.2	1.5	1.8	2	2.5	3	3
r	6	6	10	10	14	16	16	20	20
L2	1	1	1	1.2	1.5	1.6	2	2	2

d1 (m6)	5	6	8	10	12	14	16	18	20
L1 (j14)									
16	*	*	*						
18	*	*	*						
20	*	*	*	*	*				
22	*	*	*	*	*				
24	*	*	*	*	*				
28	*	*	*	*	*				
30	*	*	*	*	*				
32	*	*	*	*	*	*	*		*
36	*	*	*	*	*	*	*		*
40	*	*	*	*	*	*	*		*
45	*	*	*	*	*	*	*		*
50	*	*	*	*	*	*	*	*	*
55		*	*	*	*	*	*	*	*
60		*	*	*	*	*	*	*	*
70		*	*	*	*	*	*	*	*
80		*	*	*	*	*	*	*	*
90			*	*	*	*	*	*	*
100			*	*	*	*	*	*	*
120				*	*	*	*	*	*
140					*	*	*	*	*

FORMA DE PEDIDO / ORDER FORM : d1 x L1



COLUMNA GUIA CORREDERA "GB - 100" (G2) ANGLE PIN "GB - 100" (G2)



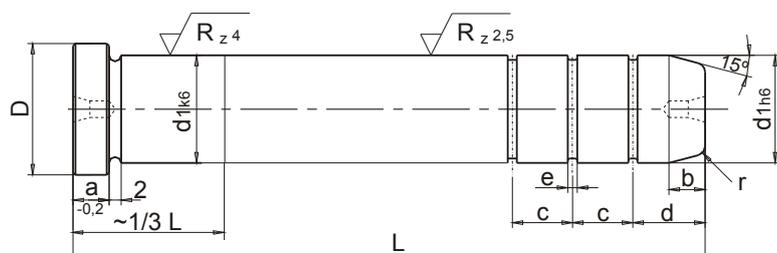
MATERIAL: Acero 1.7264
MATERIAL: Steel 1.7264
TRATAMIENTO: Cermentada (profun. 0.8 mm.)
TREATMENT: Case hardened (depth. 0,8 mm.)
DUREZA: 60 - 62 HRc.
HARDNESS: 60 - 62 HRc.

d	D	a	b	L														
				44	52	65	75	85	95	105	115	125	140	170	200	250	280	315
h6	-0,2	-0,2																
10	12	8	3	*	*	*	*	*	*	*	*							
12	15	8	4	*	*	*	*	*	*	*	*	*	*					
14	17	10	4	*	*	*	*	*	*	*	*	*	*	*				
16	19	12	5		*	*	*	*	*	*	*	*	*	*	*			
18	22	14	6			*	*	*	*	*	*	*	*	*	*			
20	24	15	6			*	*	*	*	*	*	*	*	*	*	*		
25	30	18	7				*	*	*	*	*	*	*	*	*	*	*	*
30	35	20	7							*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO: d x L
ORDER FORM: d x L



COLUMNA GUIA "GB-110" (G) LEADER PIN "GB-110" (G)



MATERIAL: Acero 1.7264
MATERIAL: Steel 1.7264
TRATAMIENTO: Cermentada (profun. 0.8 mm.)
TREATMENT: Case hardened (depth. 0,8 mm.)
DUREZA: 60 - 62 HRC.
HARDNESS: 60 - 62 HRC.

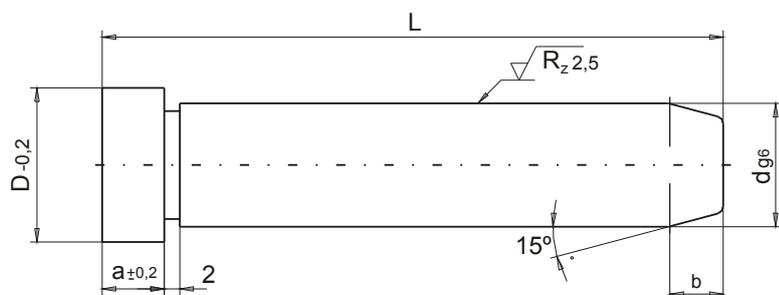
d1 h6	D -0,2	a -0,2	b	c	d	e	r	L																
								44	52	65	75	85	95	105	115	125	140	170	200	250	280	315		
10	12	4	3	8	8	1	1	*	*	*	*	*	*	*	*	*								
12	15	4	4	8	10	1	1	*	*	*	*	*	*	*	*	*	*							
14	17	5	4	8	10	1	1	*	*	*	*	*	*	*	*	*	*	*						
16	19	6	5	8	10	1	1		*	*	*	*	*	*	*	*	*	*	*					
18	22	6	6	10	12	1,5	1,5			*	*	*	*	*	*	*	*	*	*	*				
20	24	7	6	10	12	1,5	2				*	*	*	*	*	*	*	*	*	*	*			
25	30	8	7	10	14	1,5	2				*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	35	10	8	12	16	1,5	2						*	*	*	*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO: d1 x L
ORDER FORM: d1 x L



COLUMNA GUÍA EUROPA " GBE - 100 "

ANGLE PIN EUROPEAN NORM " GBE - 100 "



MATERIAL: Acero 1.7264. / Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

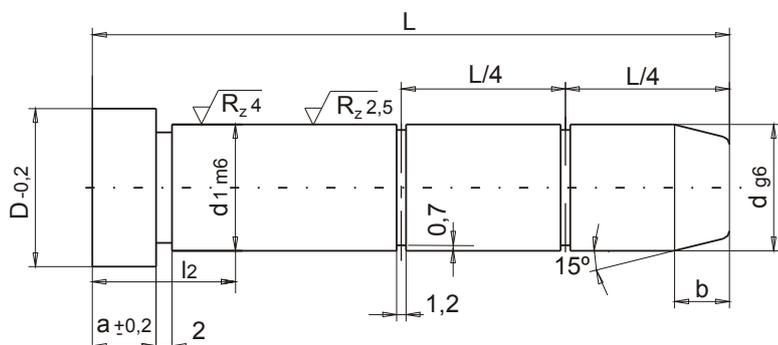
d g6	D -0,2	a +0,2	b	L													
				40	60	80	100	120	140	160	180	200	220	240	300	360	
9	12	3	4	*	*	*	*	*									
10	12	3	4	*	*	*	*	*									
12	16	6	7	*	*	*	*	*	*	*							
14	18	8	7		*	*	*	*	*	*	*						
15	18	8	7		*	*	*	*	*	*	*	*					
16	20	8	7	*	*	*	*	*	*	*	*						
18	22	8	7		*	*	*	*	*	*	*	*	*			*	
20	24	8	7		*	*	*	*	*	*	*	*	*	*		*	
22	26	15	7			*	*	*	*	*	*	*	*	*	*	*	*
24	28	15	7			*	*	*	*	*	*	*	*	*	*	*	*
30	36	15	7				*	*	*	*	*	*	*	*	*	*	*
32	36	15	7				*	*	*	*	*	*	*	*	*	*	*
40	48	15	10					*	*	*	*	*	*	*	*	*	*
50	58	15	15						*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO / ORDER FORM: d x L.



COLUMNA GUÍA EUROPA " GBE - 110 "

LEADER PIN EUROPEAN NORM " GBE - 110 "



MATERIAL: Acero 1.7264. / Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

d g6	D -0,2	a +0,2	b	L													
				40	60	80	100	120	140	160	180	200	220	240	300	360	
10	12	3	4	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	16	6	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14	18	8	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15	18	8	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16	20	8	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18	22	8	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	24	8	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22	26	15	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	28	15	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	36	15	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
32	36	15	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40	48	15	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50	58	15	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
60	68	20	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*

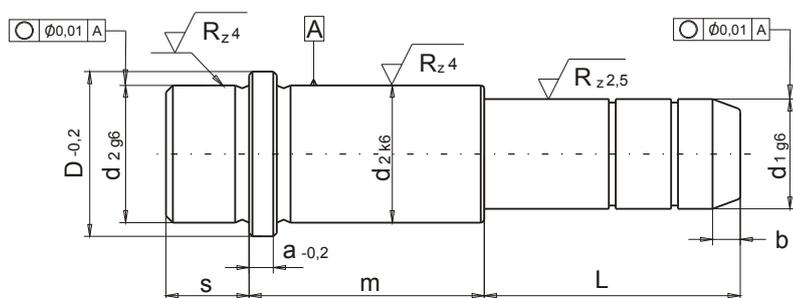
d g6		L															
		40	60	80	100	120	140	160	180	200	220	240	300	360			
10	L2	17	17	22	27												
12	l2		17	22	27	36											
14	l2		17	22	27	36	46	46									
15	l2		22	27	27	36	46	46									
16	l2			27	27	36	46	46	56	56							
18	l2			27	27	36	46	46	56	56							
20	l2				36	46	46	56	56	76							
22	l2				36	46	46	56	56	76	76						
24	l2							56	56	76	76						
30	l2							56		56	76	76					
32	l2									56	76	76					
40	l2									56	76	76	96				
50	l2									56	76	76	96	96			
60	l2										76	96	96	116			

FORMA DE PEDIDO / ORDER FORM : d x L.



COLUMNA GUÍA " GC2 "

SHOULDER LEADER PIN " GC2 "



MATERIAL: Acero 1.7264. / Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

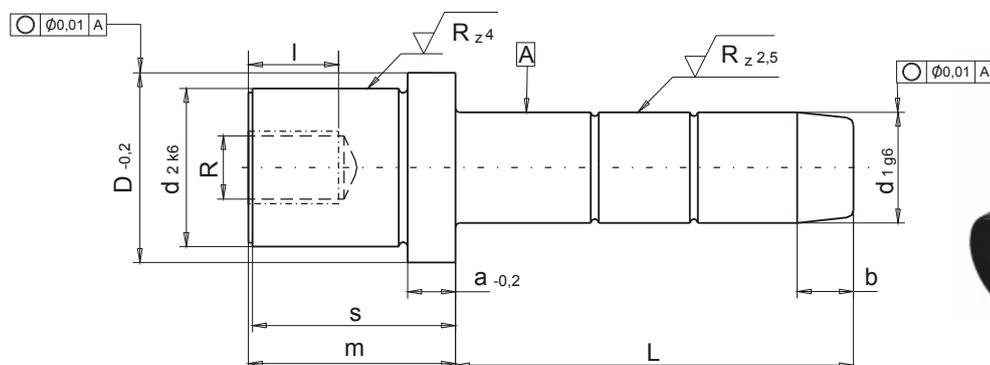
d1	d2	D	a	b	s	m	L							
							26	36	45	50	65	70	100	
12	16	20	4	4	12	26	*		*					
						26	*		*					
						30				*				
						34		*						
						44		*						
18	25	30	6	6	14	34			*			*		
						44		*				*		
						54		*				*		
22	30	35	6	6	14	44			*		*	*		
						54		*		*	*	*		
						64		*		*	*	*		

FORMA DE PEDIDO / ORDER FORM : d1 x m x L.



COLUMNA GUÍA EUROPA " GCE "

SHOULDER LEADER PIN EUROPEAN NORM "GCE"



MATERIAL: Acero 1.7264. / Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

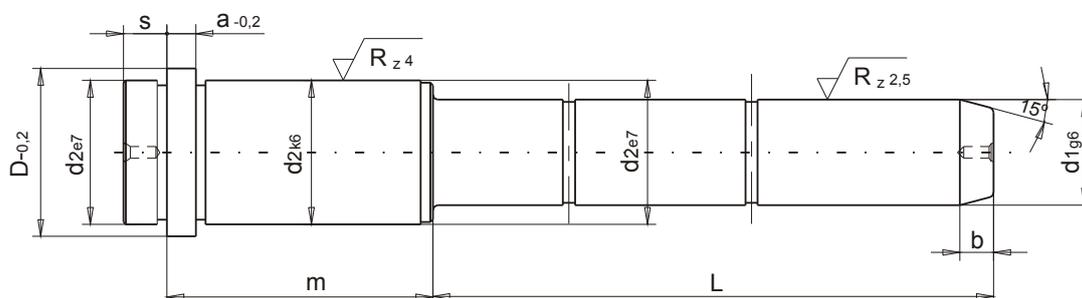
d1 g6	d2 k6	D -0.2	R	a -0.2	b	l	m	s	L									
									30	40	50	60	70	80	100	140		
10 11	16	20	M-6	3,5	4	16	16	11	*									
							21	16	*	*			*					
							26	21	*									
							31	26	*		*	*	*					
							40	35		*								
14 15	20	24	M-8	6	7	16	21	16	*		*	*						
							26	21	*		*	*						
							31	26	*		*	*			*			
							40	35		*		*	*		*	*		
							50	45			*							
18 19	25	30	M-10	6	7	21	26	21	*		*	*						
							31	26	*		*	*				*		
							40	35		*		*	*		*	*		
							50	45			*							
							60	55				*						
23 24	32	38	M-12	6	7	21	36	26	*		*	*		*		*		
							45	35		*		*	*		*	*	*	
							55	45			*							
							65	55				*						
							85	75				*						
105	95								*									

FORMA DE PEDIDO / ORDER FORM : d1 x s x L.



COLUMNA GUÍA EUROPA " GC2S "

SHOULDER LEADER PIN EUROPEAN NORM "GC2S"



MATERIAL: Acero 1.7264. / Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

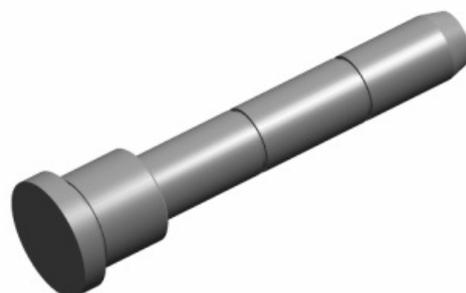
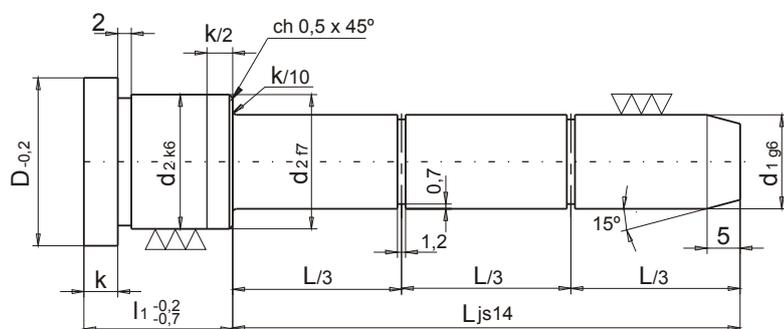
d1 g6	d2	D -0.2	a -0.2	b	s	m	L																	
							21	26	36	46	56	66	76	86	96	106	116	126	136	146	156			
9 10	14	16	3	4	3	11	*	*		*	*													
						16	*	*		*	*													
						21	*	*		*	*													
						26	*		*															
						35	*		*															
						45			*	*														
						55			*															
14 15	20	24	6	7	9	16	*	*	*	*	*	*	*		*									
						21	*	*	*	*	*	*	*		*		*	*						
						26		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
						35			*	*	*	*	*	*	*		*	*	*	*	*	*		
						45				*	*	*	*	*	*		*	*	*	*	*	*		
						55				*	*	*	*	*	*		*		*		*			
						65						*	*				*							
						75				*	*	*	*	*	*		*		*		*			
95					*	*	*	*	*		*		*		*		*							

FORMA DE PEDIDO / ORDER FORM : d1 x m x L.



COLUMNA GUÍA " CM "

SHOULDER LEADER PIN " CM "



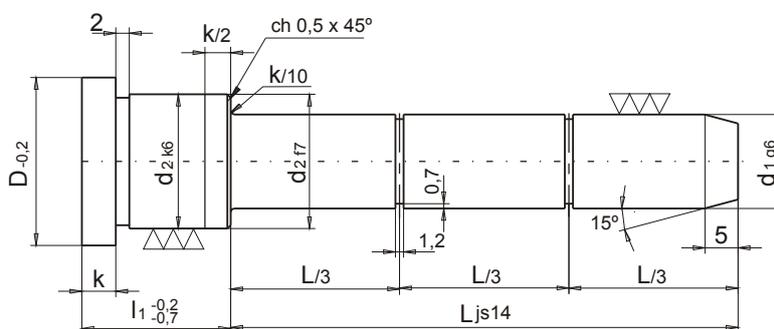
MATERIAL: Acero 1.7264. / Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

d1	D	k	d2	l1	L O N G I T U D (L) L E N G T H														
					17	21	26	35	45	55	75	95	115	135	155	195			
11	20	4	16	17	*	*	*	*	*	*	*	*							
				21	*	*	*	*	*	*	*	*	*						
				26	*	*	*	*	*	*	*	*	*						
				35			*	*	*	*	*	*	*						
				45				*	*	*	*	*	*						
12	20	4	16	17	*	*	*	*	*	*	*	*	*						
				21	*	*	*	*	*	*	*	*	*						
				26	*	*	*	*	*	*	*	*	*						
				35			*	*	*	*	*	*	*						
				45				*	*	*	*	*	*						
14	25	5	20	17	*	*	*	*	*	*	*	*							
				21	*	*	*	*	*	*	*	*	*	*					
				26		*	*	*	*	*	*	*	*	*	*				
				35			*	*	*	*	*	*	*	*	*	*			
				45			*	*	*	*	*	*	*	*	*	*	*		
				55			*	*	*	*	*	*	*	*	*	*	*	*	
				75			*	*	*	*	*	*	*	*	*	*	*	*	*
15	25	5	20	17	*	*	*	*	*	*	*	*							
				21	*	*	*	*	*	*	*	*	*	*					
				26		*	*	*	*	*	*	*	*	*	*	*			
				35			*	*	*	*	*	*	*	*	*	*	*		
				45			*	*	*	*	*	*	*	*	*	*	*	*	
				55			*	*	*	*	*	*	*	*	*	*	*	*	*
				75			*	*	*	*	*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO / ORDER FORM : d1 x l1 x L.



COLUMNA GUÍA " CM " (Continuacion) SHOULDER LEADER PIN " CM " (Cntd.)



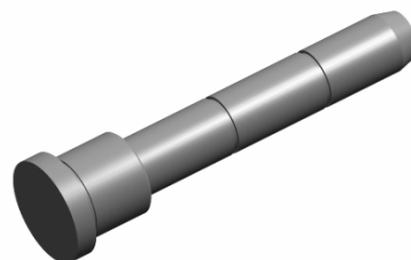
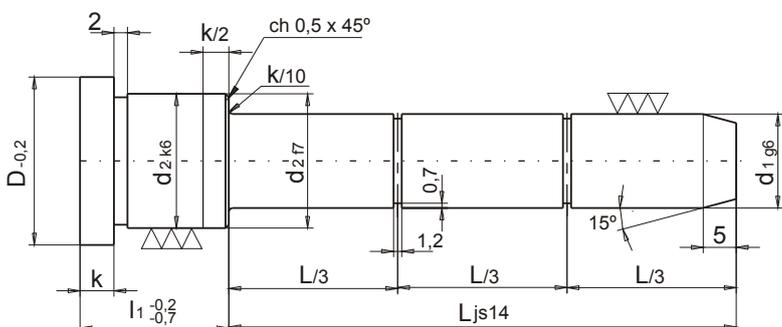
MATERIAL: Acero 1.7264. / Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

d1	D	k	d2	l1	L O N G I T U D (L) L E N G T H											
					17	21	26	35	45	55	75	95	115	135	155	195
18	30	6	25	21	*	*	*	*	*	*	*	*	*	*	*	*
				26	*	*	*	*	*	*	*	*	*	*	*	*
				35		*	*	*	*	*	*	*	*	*	*	*
				45			*	*	*	*	*	*	*	*	*	*
				55			*	*	*	*	*	*	*	*	*	*
				75			*	*	*	*	*	*	*	*	*	*
				95				*	*	*	*	*	*	*	*	*
19	30	6	25	21	*	*	*	*	*	*	*	*	*	*	*	
				26	*	*	*	*	*	*	*	*	*	*	*	
				35		*	*	*	*	*	*	*	*	*	*	
				45			*	*	*	*	*	*	*	*	*	
				55			*	*	*	*	*	*	*	*	*	
				75			*	*	*	*	*	*	*	*	*	
				95				*	*	*	*	*	*	*	*	
d1	D	k	d2	l1	26	35	45	55	75	95	115	135	155	195	215	245
24	38	6	32	26	*	*	*	*	*	*	*	*	*	*	*	*
				35	*	*	*	*	*	*	*	*	*	*	*	*
				45	*	*	*	*	*	*	*	*	*	*	*	*
				55	*	*	*	*	*	*	*	*	*	*	*	*
				75	*	*	*	*	*	*	*	*	*	*	*	*
				95		*	*	*	*	*	*	*	*	*	*	*
				115			*	*	*	*	*	*	*	*	*	*
135				*	*	*	*	*	*	*	*	*				
25	38	6	32	26	*	*	*	*	*	*	*	*	*	*	*	
				35	*	*	*	*	*	*	*	*	*	*	*	
				45	*	*	*	*	*	*	*	*	*	*	*	
				55	*	*	*	*	*	*	*	*	*	*	*	
				75	*	*	*	*	*	*	*	*	*	*	*	
				95		*	*	*	*	*	*	*	*	*	*	
				115			*	*	*	*	*	*	*	*	*	
135				*	*	*	*	*	*	*	*					

FORMA DE PEDIDO / ORDER FORM : d1 x l1 x L.



COLUMNA GUÍA " CM " (Continuacion) SHOULDER LEADER PIN " CM " (Cntd.)



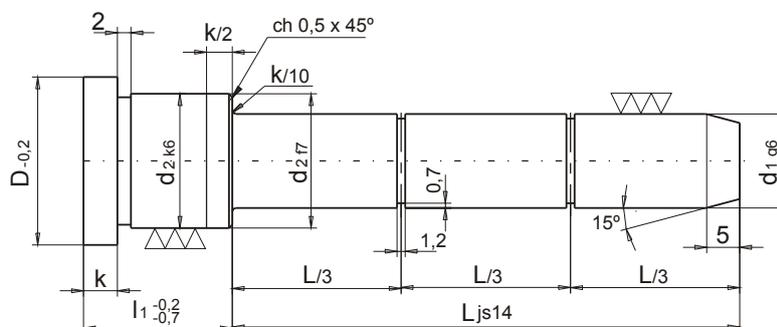
MATERIAL: Acero 1.7264. Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

d1	D	k	d2	l1	L O N G I T U D (L) L E N G T H															
					35	45	55	75	95	115	135	155	195	215	245	295	315			
30	48	8	40	35	*	*	*	*	*	*	*	*	*	*	*	*				
				45	*	*	*	*	*	*	*	*	*	*	*	*				
				55	*	*	*	*	*	*	*	*	*	*	*	*	*			
				75	*	*	*	*	*	*	*	*	*	*	*	*	*			
				95		*	*	*	*	*	*	*	*	*	*	*	*	*		
				115			*	*	*	*	*	*	*	*	*	*	*	*	*	
				135			*	*	*	*	*	*	*	*	*	*	*	*	*	*
				155			*	*	*	*	*	*	*	*	*	*	*	*	*	*
				195			*	*	*	*	*	*	*	*	*	*	*	*	*	*
32	48	8	40	35	*	*	*	*	*	*	*	*	*	*	*					
				45	*	*	*	*	*	*	*	*	*	*	*	*				
				55	*	*	*	*	*	*	*	*	*	*	*	*	*			
				75	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
				95		*	*	*	*	*	*	*	*	*	*	*	*	*	*	
				115			*	*	*	*	*	*	*	*	*	*	*	*	*	*
				135			*	*	*	*	*	*	*	*	*	*	*	*	*	*
				155			*	*	*	*	*	*	*	*	*	*	*	*	*	*
				195			*	*	*	*	*	*	*	*	*	*	*	*	*	*
40	60	10	54	45		*	*	*	*	*	*	*	*	*	*	*	*	*		
				55		*	*	*	*	*	*	*	*	*	*	*	*	*	*	
				75		*	*	*	*	*	*	*	*	*	*	*	*	*	*	
				95		*	*	*	*	*	*	*	*	*	*	*	*	*	*	
				115			*	*	*	*	*	*	*	*	*	*	*	*	*	
				135			*	*	*	*	*	*	*	*	*	*	*	*	*	
				155			*	*	*	*	*	*	*	*	*	*	*	*	*	
				195			*	*	*	*	*	*	*	*	*	*	*	*	*	
				215			*	*	*	*	*	*	*	*	*	*	*	*	*	
42	60	10	54	45		*	*	*	*	*	*	*	*	*	*	*	*			
				55		*	*	*	*	*	*	*	*	*	*	*	*	*		
				75		*	*	*	*	*	*	*	*	*	*	*	*	*		
				95		*	*	*	*	*	*	*	*	*	*	*	*	*		
				115			*	*	*	*	*	*	*	*	*	*	*	*		
				135			*	*	*	*	*	*	*	*	*	*	*	*		
				155			*	*	*	*	*	*	*	*	*	*	*	*		
				195			*	*	*	*	*	*	*	*	*	*	*	*		
				215			*	*	*	*	*	*	*	*	*	*	*	*		

FORMA DE PEDIDO: d1 x l1 x L. ORDER FORM : d1 x l1 x L.



COLUMNA GUÍA " CM " (Continuacion) SHOULDER LEADER PIN " CM " (Cntd.)



MATERIAL: Acero 1.7264.
MATERIAL: Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA: 60 - 62 HRC.
HARDNESS: 60 - 62 HRC.

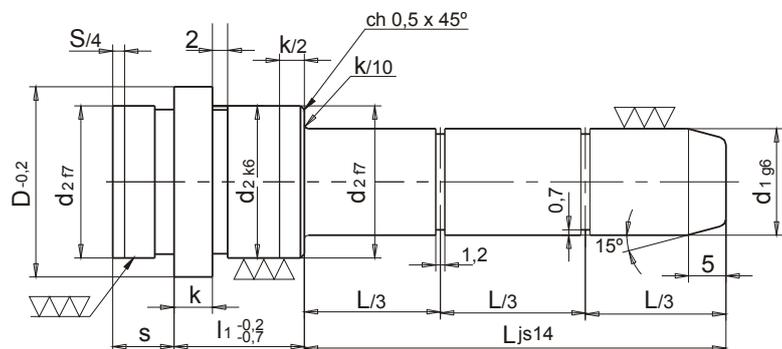
d1	D	k	d2	l1	L O N G I T U D (L) L E N G T H																
					35	45	55	75	95	115	135	155	195	215	245	295	315				
50	72	10	66	75				*	*	*	*	*	*	*	*	*	*	*	*		
				95				*	*	*	*	*	*	*	*	*	*	*	*	*	
				115				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				135				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				155				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				195				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				215				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				245				*	*	*	*	*	*	*	*	*	*	*	*	*	*
52	72	10	66	75																	
				95				*	*	*	*	*	*	*	*	*	*	*	*	*	
				115				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				135				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				155				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				195				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				215				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				245				*	*	*	*	*	*	*	*	*	*	*	*	*	*
60	86	20	80	95				*	*	*	*	*	*	*	*	*	*	*			
				115				*	*	*	*	*	*	*	*	*	*	*	*	*	
				135				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				155				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				195				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				215				*	*	*	*	*	*	*	*	*	*	*	*	*	*
				245				*	*	*	*	*	*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO: d1 x l1 x L.
ORDER FORM : d1 x l1 x L.



COLUMNA GUÍA " CMP "

SHOULDER LEADER PIN " CMP "

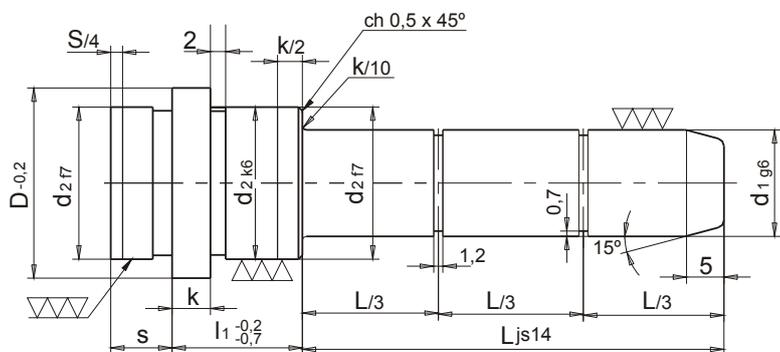


MATERIAL: Acero 1.7264. Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

d1	D	k	d2	s	l1	L O N G I T U D (L) L E N G T H															
						17	21	26	35	45	55	75	95	115	135	155	195				
11	20	4	16	8	17	*	*	*	*	*	*	*									
					21	*	*	*	*	*	*	*	*	*							
					26	*	*	*	*	*	*	*	*	*	*						
					35			*	*	*	*	*	*	*	*						
					45			*	*	*	*	*	*	*	*	*					
					55			*	*	*	*	*	*	*	*	*					
12	20	4	16	8	17	*	*	*	*	*	*	*									
					21	*	*	*	*	*	*	*	*	*	*						
					26	*	*	*	*	*	*	*	*	*	*	*					
					35			*	*	*	*	*	*	*	*	*					
					45			*	*	*	*	*	*	*	*	*	*				
					55			*	*	*	*	*	*	*	*	*	*				
14	25	5	20	8	17	*	*	*	*	*	*	*	*								
					21	*	*	*	*	*	*	*	*	*	*	*					
					26	*	*	*	*	*	*	*	*	*	*	*	*				
					35			*	*	*	*	*	*	*	*	*	*				
					45			*	*	*	*	*	*	*	*	*	*	*			
					55			*	*	*	*	*	*	*	*	*	*	*			
15	25	5	20	8	17	*	*	*	*	*	*	*	*	*							
					21	*	*	*	*	*	*	*	*	*	*	*	*				
					26	*	*	*	*	*	*	*	*	*	*	*	*	*			
					35			*	*	*	*	*	*	*	*	*	*	*			
					45			*	*	*	*	*	*	*	*	*	*	*	*		
					55			*	*	*	*	*	*	*	*	*	*	*	*		
18	30	6	25	8	21		*	*	*	*	*	*	*	*	*						
					26		*	*	*	*	*	*	*	*	*	*	*	*			
					35			*	*	*	*	*	*	*	*	*	*	*	*		
					45			*	*	*	*	*	*	*	*	*	*	*	*	*	
					55			*	*	*	*	*	*	*	*	*	*	*	*	*	
					75			*	*	*	*	*	*	*	*	*	*	*	*	*	

FORMA DE PEDIDO: d1 x l1 x L. ORDER FORM : d1 x l1 x L.

COLUMNA GUÍA "CMP" (Continuacion) SHOULDER LEADER PIN "CMP" (Cntd.)



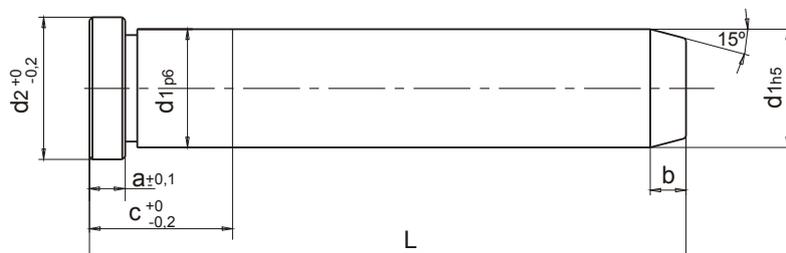
MATERIAL: Acero 1.7264. Steel 1.7264.
TRATAMIENTO: Cementada (profund. 0,8 mm.).
TREATMENT: Case hardened (depth 0,8 mm).
DUREZA HARDNESS: 60 - 62 HRC.

d1	D	k	d2	s	l1	L O N G I T U D (L) L E N G T H												
						21	26	35	45	55	75	95	115	135	155	195	215	245
32	48	8	40	10	35			*	*	*	*	*	*	*	*	*		
					45			*	*	*	*	*	*	*	*	*		
					55			*	*	*	*	*	*	*	*	*		
					75			*	*	*	*	*	*	*	*	*	*	*
					95			*	*	*	*	*	*	*	*	*	*	*
					115			*	*	*	*	*	*	*	*	*	*	*
					135			*	*	*	*	*	*	*	*	*	*	*
					155			*	*	*	*	*	*	*	*	*	*	*
					175			*	*	*	*	*	*	*	*	*	*	*
					195			*	*	*	*	*	*	*	*	*	*	*
40	60	10	54	12	45			*	*	*	*	*	*	*	*			
					55			*	*	*	*	*	*	*	*	*		
					75			*	*	*	*	*	*	*	*	*	*	
					95			*	*	*	*	*	*	*	*	*	*	
					115			*	*	*	*	*	*	*	*	*	*	
					135			*	*	*	*	*	*	*	*	*	*	
					155			*	*	*	*	*	*	*	*	*	*	
					175			*	*	*	*	*	*	*	*	*	*	
					195			*	*	*	*	*	*	*	*	*	*	
					215			*	*	*	*	*	*	*	*	*	*	
42	60	10	54	12	45			*	*	*	*	*	*	*	*			
					55			*	*	*	*	*	*	*	*	*		
					75			*	*	*	*	*	*	*	*	*	*	
					95			*	*	*	*	*	*	*	*	*	*	
					115			*	*	*	*	*	*	*	*	*	*	
					135			*	*	*	*	*	*	*	*	*	*	
					155			*	*	*	*	*	*	*	*	*	*	
					175			*	*	*	*	*	*	*	*	*	*	
					195			*	*	*	*	*	*	*	*	*	*	
					215			*	*	*	*	*	*	*	*	*	*	

FORMA DE PEDIDO: d1 x l1 x L. **ORDER FORM :** d1 x l1 x L.



COLUMNA "BOLEXP" - 808 "BOLEXP" GUIDE PIN - 808



MATERIAL: Acero 5732 Steel 5732
DUREZA HARDNESS: 62 - 64 HRC.

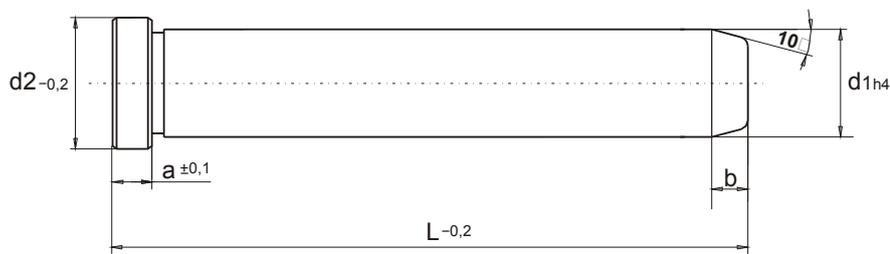
d1 h5	d2 -0.2	a ±0.1	b	c -0.2	L								
8	12	3	4	10	60	80	100						
10	14	4	4	12	60	80	100						
12	16	4	4	16		80	100	125					
16	20	6	6	20		80	100	125	160	200			
20	24	6	6	22			100	125	160	200	250		
25	30	6	6	25				125	160	200	250	315	
32	37	8	8	35				125		200	250	315	
40	45	8	8	35				125		200	250	315	400
50	55	10	10	45								315	400
60	65	10	10	55									400

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



COLUMNA BOLEXP - " 818 "

BOLEXP GUIDE PIN - " 818 "



MATERIAL: Acero 5732 MATERIAL: Steel 5732
DUREZA : HARDNESS: 62-64 HRC.

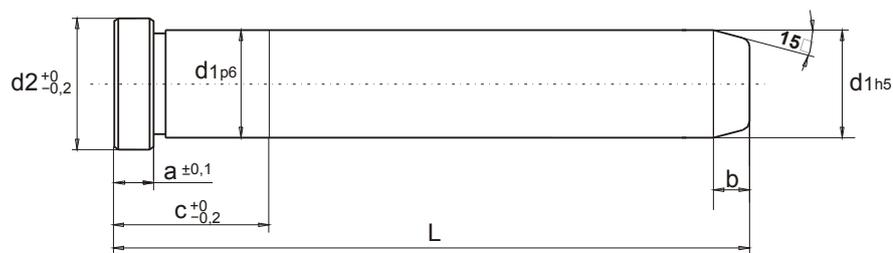
d1	L	d2	a	b
12	80	16	4	4
12	100	16	4	4
12	120	16	4	4
12	140	16	4	4
18	100	22	6	7
18	120	22	6	7
18	140	22	6	7
18	160	22	6	7
18	200	22	6	7
24	160	28	6	7
24	200	28	6	7
24	240	28	6	7
24	300	28	6	7
30	160	36	6	7
30	200	36	6	7
30	240	36	6	7
30	300	36	6	7

FORMA DE PEDIDO: d1 x L

ORDER FORM: d1 x L



COLUMNA BOLEXP - " 858 " AC. INOXIDABLE BOLEXP GUIDE PIN - " 858 " STAINLESS STEEL



MATERIAL: 1.4125 MATERIAL: 1.4125
DUREZA : HARDNESS: 58-60 HRc.

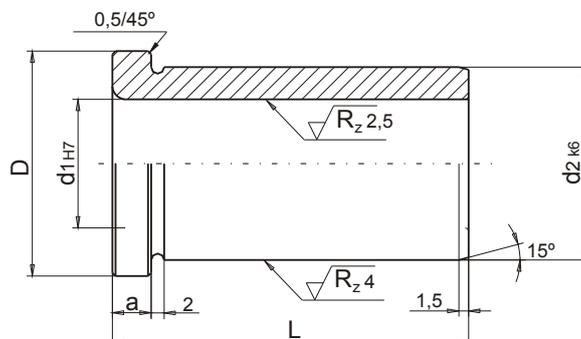
d1	L	d2	a	b	c
12	80	16	4	4	16
12	100	16	4	4	16
16	100	20	6	6	20
16	125	20	6	6	20
20	125	24	6	6	22
20	160	24	6	6	22
25	160	30	6	6	25
25	200	30	6	6	25

FORMA DE PEDIDO: d1 x L
ORDER FORM: d1 x L



CASQUILLO -CV- " FB - 150 "

LEADER PIN BUSHING -CV- " FB - 150 "



MATERIAL: Acero 1.7264. Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRC.

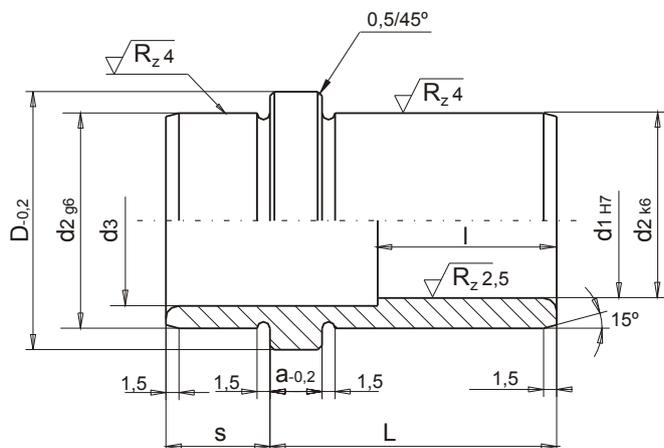
d1	d2	D	a	L												
				17	21	26	35	45	55	65	75	85	95	135		
H7	k6	-0,2	-0,2													
10	14	17	4	*		*										
12	16	20	4	*		*	*	*	*							
14	20	24	4		*	*	*	*	*	*						
16	20	24	4		*	*	*	*	*	*	*				*	
18	25	30	6		*	*	*	*	*	*	*	*	*	*	*	
20	30	35	6				*		*	*	*					
22	30	35	6			*	*	*	*	*	*	*	*	*	*	
25	35	40	8				*	*	*	*	*	*				
30	40	45	8			*	*	*	*	*	*	*	*	*	*	*
40	50	55	10						*				*	*	*	*

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO - CV2 - " FB-140 "

LEADER PIN BUSHING - CV2 - " FB-140 "



MATERIAL: Acero 1.7264. Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRc.

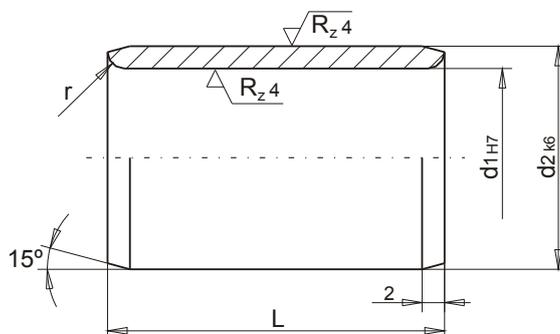
d1 H7	d2	d3	D -0,2	a -0,2	s	L								
						17	21	26	35	45	55	74	94	
12	16		20	4	8	*		*	*	*	*			
14	20		24	4	12	*	*	*	*					
16	20	16,5	24	4	12	*	*	*	*	*	*	*		
18	25	19	30	6	12-17		*	*	*	*	*	*	*	*
20	30	21	35	6	15			*	*					
22	30	23	35	6	15-17		*	*	*	*	*	*	*	*
25	35	26	40	8	18			*	*	*	*			
30	40	31	45	8	20			*	*	*	*	*	*	*

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.

d1 H7	L							
	17	21	26	35	45	55	74	94
12				l=27	l=27	l=27		
14				l=30				
16				l=30	l=30	l=40	l=46	
18				l=30	l=30	l=38	l=44	l=57
20				l=30				
22				l=30	l=30	l=38	l=44	l=57
25				l=30	l=30	l=44		
30				l=30	l=30	l=44	l=43	l=56



CASQUILLO -C- “ FB - 130 “ LEADER PIN BUSHING -C- “ FB - 130 “



MATERIAL: Acero 1.7264. Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRC.

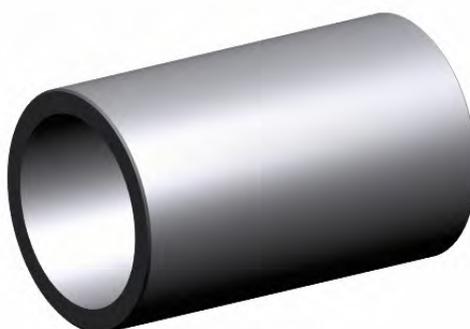
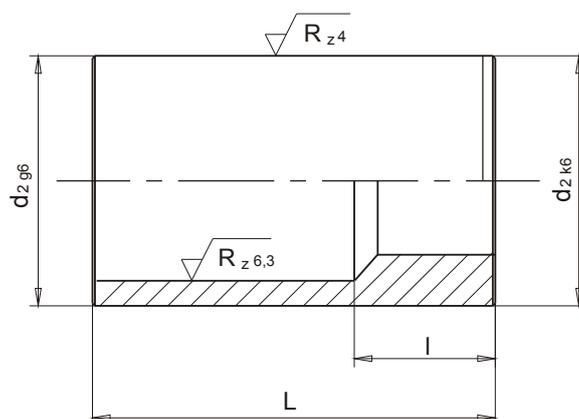
d1 H7	d2 k6	r	L								
			9	17	21	26	30	35	45	55	
10	14	1,5	*	*							
12	16	1,5		*		*					
14	20	1,5			*		*				
16	20	1,5			*		*				
18	25	2			*		*				
20	30	2					*				
22	30	2,5						*	*		
25	35	2,5						*	*		
30	40	3,5						*	*		
40	50	3,5									*

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO CENTRAJE " CCS "

LOCATION BUSHING " CCS "



MATERIAL: Acero especial de cementación / Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRC.

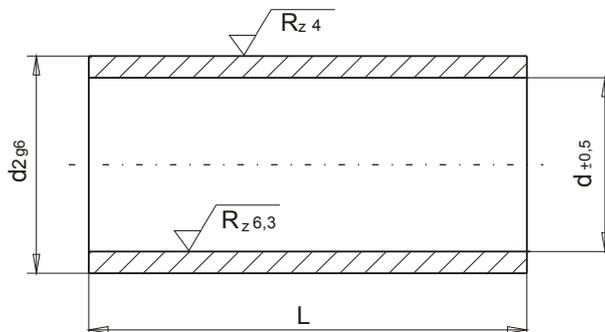
d2	l	L														
		20	30	40	50	60	70	80	100	120	140	160	180	200	220	
14	9	*	*	*	*	*	*									
20	14		*	*		*		*	*	*	*					
25	14			*		*		*	*	*	*					
26	14			*		*		*	*	*	*					
30	14					*		*	*	*	*	*	*			
42	14					*		*	*	*	*	*	*	*	*	*
54	16							*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO: d2 x L. **ORDER FORM:** d2 x L.



CASQUILLO CENTRAJE " CCE "

LOCATION BUSHING " CCE "



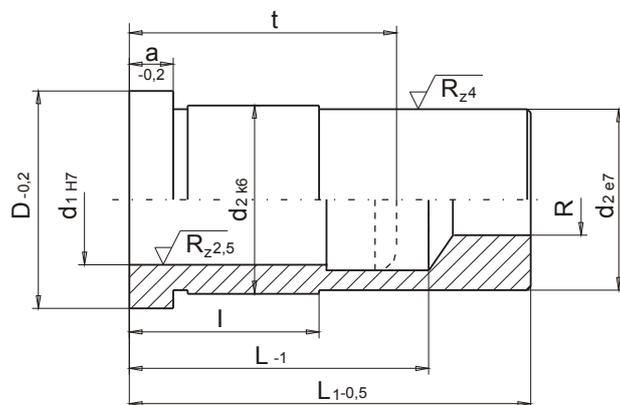
MATERIAL: Acero especial de cementación / Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRC.

d2	d	L																						
		10	20	25	30	35	40	45	50	55	60	65	70	75	80	90	95	100	120	140	160	180	200	220
16	13	*	*	*	*	*	*	*	*	*	*	*												
20	16	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
25	21	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
26	21						*				*				*			*	*	*				
30	25						*							*				*	*	*	*	*	*	
32	26	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
40	34										*				*			*	*	*	*	*	*	
42	34										*				*			*	*	*	*	*	*	
50	42														*			*	*	*	*	*	*	*
54	44														*			*	*	*	*	*	*	*

FORMA DE PEDIDO: d2 x L. **ORDER FORM:** d2 x L.



CASQUILLO EUROPA "CVE " BUSHING "CVE " EUROPEAN NORM



MATERIAL: Acero 1.7264. / Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRc.

d1	d2	D	R	a	I	L1														
						30	35	40	45	50	55	60	65	70	75	80	85	95	105	
10	16	20	M6	3,5	16	*		*		*		*								
11	16	20	M6	3,5	16	*		*		*		*								
14	20	24	M8	6	22	*		*		*		*		*		*				
15	20	24	M8	6	22	*		*		*		*		*		*				
18	25	30	M10	6	26		*		*		*		*		*		*	*		
19	25	30	M10	6	26		*		*		*		*		*		*	*		
23	32	38	M12	6	26				*		*		*		*		*	*		*
24	32	38	M12	6	26				*		*		*		*		*	*		*

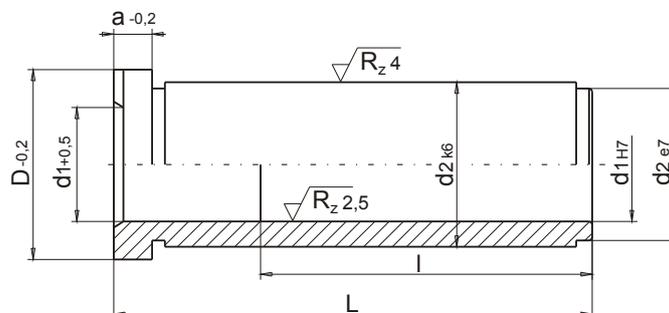
L1	30	35	40	45	50	55	60	65	70	75	80	85	95	105
L	22	22	32	32	42	42	52	52	62	62	72	72	82	92
t	20	20	30	30	40	40	50	50	60	60	70	70	80	90

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO EUROPA " CVS "

LEADER PIN BUSHING " CVS " EUROPEAN NORM



MATERIAL: Acero 1.7264. / Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRc.

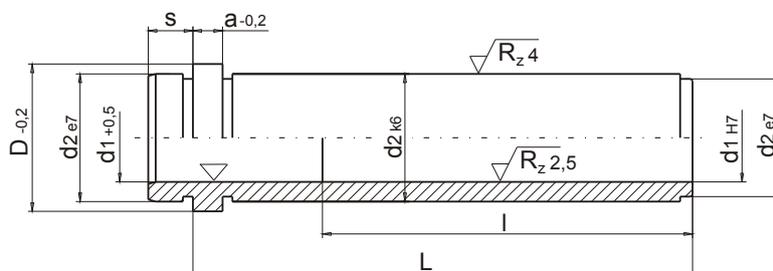
d1	d2	D	a	L	11	16	21	26	35	45	55	75	95	115	135	155	175	195	215	245	
H7	e7	-0,2	-0,2	I							45	55	75	95	115	135	135	135	135	135	
9-10	14	16	3		*	*	*	*	*	*	*										
12	18	22	6			*	*	*	*	*	*										
14-15	20	24	6			*	*	*	*	*	*	*									
16	22	27	6			*	*	*	*	*	*										
18-20	26	30	6			*	*	*	*	*	*	*	*								
22-24	30	35	6			*	*	*	*	*	*	*	*	*							
30-32	42	47	6					*	*	*	*	*	*	*	*						
40-42	54	60	10						*	*	*	*	*	*	*	*	*	*	*		
50	66	72	10								*	*	*	*	*	*	*	*	*	*	
60	80	86	20										*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO " CV2S "

LEADER PIN BUSHING " CV2S "



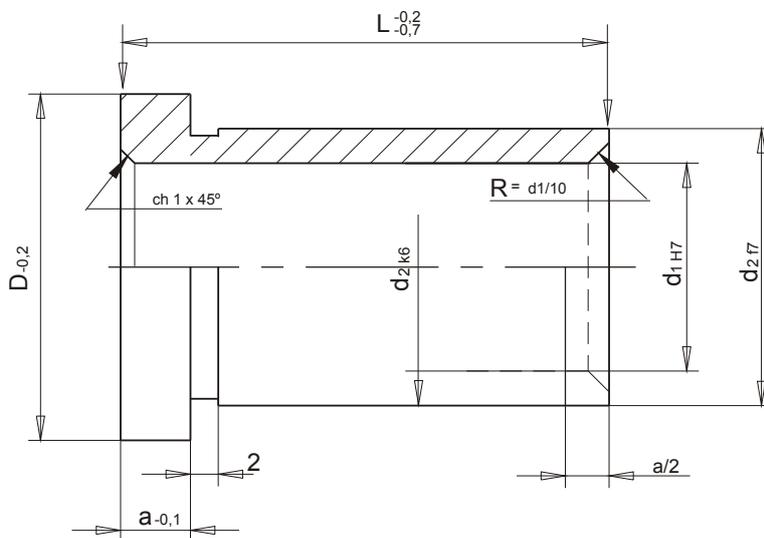
MATERIAL: Acero 1.7264. / Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRc.

d1 H7	d2 k6	D -0,2	a -0.2	s	L l	11	16	21	26	35	45	55	75	95	115	135	155	175	195	215	245	
						45	55	75	95	115	135	135	135	135	135	135	135	135	135	135		
9-10	14	16	3	3		*	*	*	*	*	*	*										
14-15	20	24	6	9			*	*	*	*	*	*	*	*								
18-20	26	30	6	9			*	*	*	*	*	*	*	*	*							
22-24	30	35	6	9			*	*	*	*	*	*	*	*	*	*						
30-32	42	47	6	9					*	*	*	*	*	*	*	*	*					
40-42	54	60	10	12					*	*	*	*	*	*	*	*	*	*	*	*	*	*
50-52	66	72	10	12							*	*	*	*	*	*	*	*	*	*	*	*
60	80	86	20	16								*	*	*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO GUIA " CM " LEADER PIN BUSHING " CM "



MATERIAL: Acero 1.7264. / Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRC.

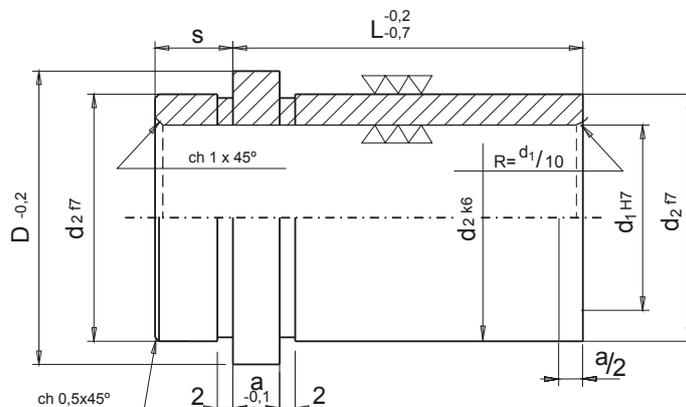
d1 H7	d2 f7	D -0,2	a -0.1	L														
				17	21	26	35	45	55	75	95	115	135	155	175	195	215	245
11-12	16	20	4	*	*	*	*	*	*									
14-15	20	25	5	*	*	*	*	*	*	*								
18-19	25	30	6		*	*	*	*	*	*	*							
24-25	32	38	6			*	*	*	*	*	*	*	*					
30-32	40	48	8			*	*	*	*	*	*	*	*	*				
40-42	54	60	10				*	*	*	*	*	*	*	*	*			
50-52	66	72	10					*	*	*	*	*	*	*	*	*	*	
60	80	86	20						*	*	*	*	*	*	*	*	*	

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO GUIA " CMP "

LEADER PIN BUSHING " CMP "



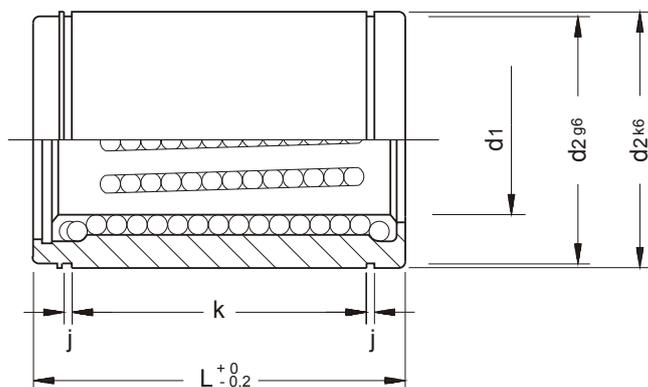
MATERIAL: Acero 1.7264. / Steel 1.7264.
DUREZA HARDNESS: 60 - 62 HRC.

d1	d2	D	a	s	L													
					17	21	26	35	45	55	75	95	115	135	155	175	195	215
11-12	16	20	4	8	*	*	*	*	*	*								
14-15	20	25	5	8	*	*	*	*	*	*								
18-19	25	30	6	8		*	*	*	*	*	*							
24-25	32	38	6	10			*	*	*	*	*	*	*					
30-32	40	48	8	10			*	*	*	*	*	*	*	*				
40-42	54	60	10	12				*	*	*	*	*	*	*	*	*		
50-52	66	72	10	12						*	*	*	*	*	*	*	*	*
60	80	86	20	16							*	*	*	*	*	*	*	*

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO BOLEXP " C " - 803 BOLEXP BUSH " C " - 803



MATERIAL: Casquillo acero aleado cromo-niquel. Jaula de bronce de alta resistencia. Bolas de alta precisión y resistencia.
Bushing of chrome-nickel alloy. High resistance bronze ball cage. High precision and resistance balls.

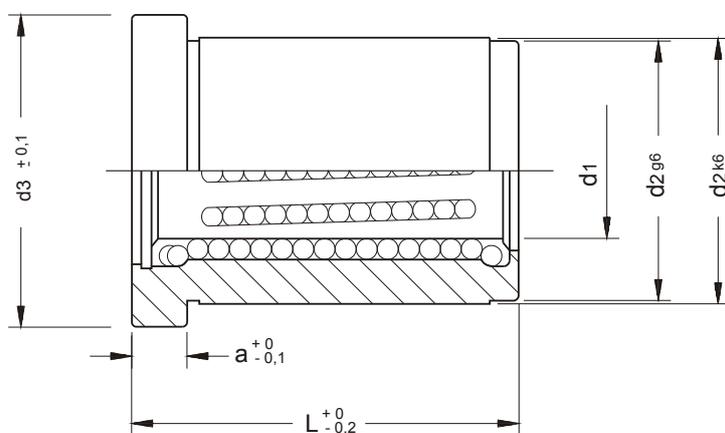
DUREZA HARDNESS: 60 - 62 HRc.

d1	L	d2	k	j	Ø Bolas Ball diam.	Nº Líneas Lines Number
12	30	24	20	1.3	3	5
16	30	28	19	1.6	3	6
16	35	28	24	1.6	3	6
20	35	32	24	1.6	3	6
20	45	32	34	1.6	3	8
25	35	40	23	1.8	3	8
25	45	40	33	1.8	3	8
25	55	40	43	1.8	3	8
32	45	50	33	2.1	4	8
32	63	50	51	2.1	4	8
40	45	60	33	2.1	4	8
40	63	60	51	2.1	4	8
50	63	70	50	2.6	4	10
50	80	70	65	2.6	4	10
60	80	85	65	3.1	4	12
60	100	85	85	3.1	4	12

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO BOLEXP " CV " - 801 BOLEXP BUSH " CV " - 801



MATERIAL: Casquillo acero aleado cromo-niquel. Jaula de bronce de alta resistencia. Bolas de alta precisión y resistencia.
Bushing of chrome-nickel alloy. High resistance bronze ball cage. High precision and resistance balls.

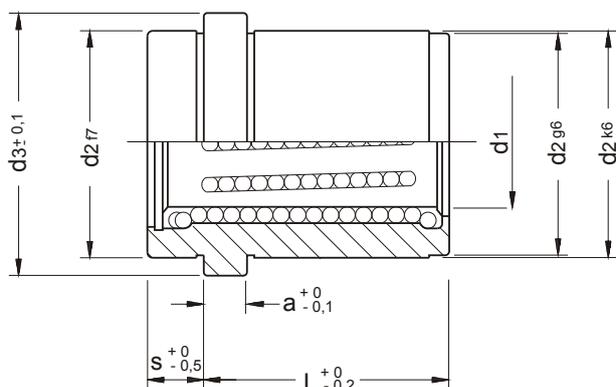
DUREZA HARDNESS: 60 - 62 HRC.

d1	L	d2	d3	a	D. Bolas Ball diam.	Nº Lineas Number of lines
20	35	32	36	6	3	8
25	35	40	45	6	3	8
25	45	40	45	6	3	8
25	55	40	45	6	3	8
32	45	50	56	8	4	8
32	63	50	56	8	4	8
40	45	60	66	8	4	8
40	63	60	66	8	4	8

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO BOLEXP " CV2 " - 802 BOLEXP BUSH " CV2 " - 802



MATERIAL: Casquillo acero aleado cromo-niquel. Jaula de bronce de alta resistencia. Bolas de alta precisión y resistencia.
Bushing of chrome-nickel alloy. High resistance bronze ball cage. High precision and resistance balls.

DUREZA HARDNESS: 60 - 62 HRc.

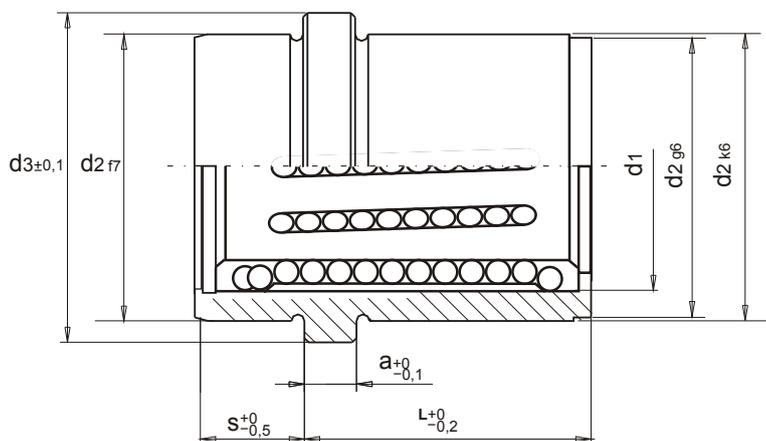
d1	L	d2	d3	a	s	Ø Bolas Ball diam.	Nº Lineas Lines Number
8	12	18	21	3	6	2	5
10	12	20	24	4	9	2,5	5
12	22	24	28	6	8	3	5
16	22	28	32	6	8	3	6
16	26	28	32	6	9	3	6
20	26	32	36	6	9	3	6
20	35	32	36	6	9	3	6
25	26	40	45	6	9	3	8
25	35	40	45	6	10	3	8
25	45	40	45	6	10	3	8
25	55	40	45	6	10	3	8
32	45	50	56	8	12	4	8
32	63	50	56	8	12	4	8
40	45	60	66	8	12	4	8
40	63	60	66	8	12	4	8
50	55	70	76	10	25	4	10
60	55	85	91	10	25	4	12

FORMA DE PEDIDO: d1 x L. **ORDER FORM:** d1 x L.



CASQUILLO BOLEXP - " 812 "

BOLEXP BUSH - " 812 "



MATERIAL: Casquillos de acero especial, Jaula de Bronce de alta resistencia al deslizamiento. Bolas de alta precisión.

MATERIAL: Special steel bush. Bronze cage with high resistance to wear. High-precision balls

DUREZA : HARDNESS: 60-62 HRc.

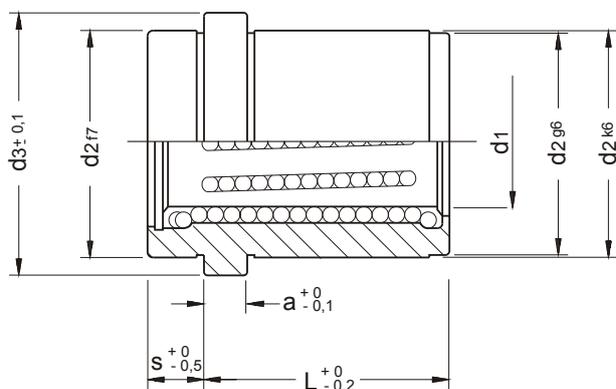
d1	L	d2	d3	a	s	Bola Ball	Numero de lineas Number of lines
12	20	22	26	6	6	2,5	6
18	24	30	35	6	11	3	6
24	29	38	43	6	16	3	8
30	34	46	52	6	21	4	8

FORMA DE PEDIDO: d1 x L

ORDER FORM: d1 x L



CASQUILLO BOLAS - 844 BALL CAGE BUSH - 844



MATERIALES: Casquillo de acero especial. Jaula de bronce de alta resistencia al desgaste. Bolas de alta precisión.
Special steel bush. Bronze cage with high resistance to wear. High precision balls.

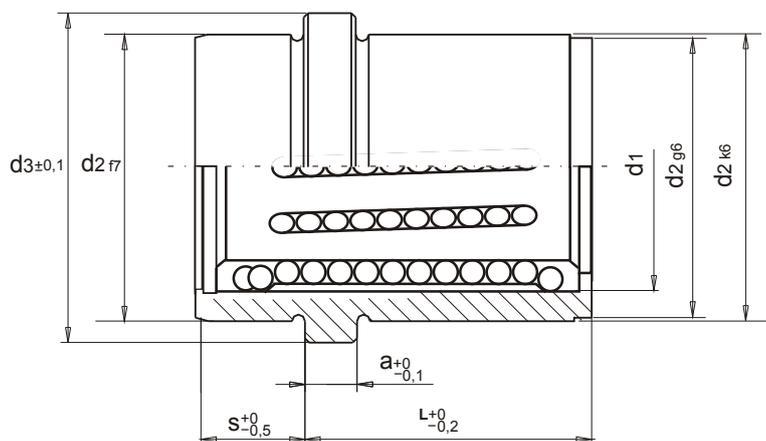
DUREZA HARDNESS: 60 - 62 HRC.

d1	L	d2	d3	a	s	Ø bolas Ø balls	Numero de lineas Number of lines
12	17	22	25	6	9	2,5	6
12	17	22	25	6	12	2,5	6
18	22	30	33	6	12	3	6
18	22	30	33	6	17	3	6
24	27	38	41	6	17	3	8
24	27	38	41	6	22	3	8
30	32	46	49	6	22	4	8
30	36	46	49	6	27	4	8

FORMA DE PEDIDO: d1 x s x L. **ORDER FORM:** d1 x s x L.



CASQUILLO BOLEXP - " 852 " ACERO INOXIDABLE BOLEXP BUSH - " 852 " STAINLESS STEEL



MATERIAL: Acero inoxidable 1.2083. Jaula de aluminio anodizado
Bolas de acero inoxidable de alta precisión.

MATERIAL: Stainless steel bush. Anodized aluminium cage.
High-precision balls stainless steel.

DUREZA : HARDNESS: 54-56 HRc.

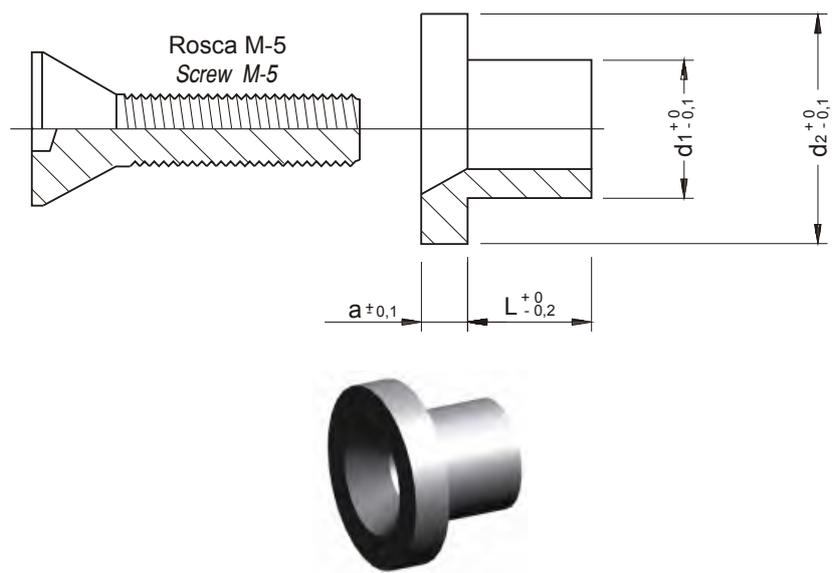
d1	L	d2	d3	a	s	Bola Ball	Numero de lineas Number of lines
12	22	24	28	6	8	3	5
16	22	30	32	6	8	3	6
20	26	32	36	6	9	3	6
25	26	40	46	6	9	3	8

FORMA DE PEDIDO: d1 x L

ORDER FORM: d1 x L



BRIDA FIJACION "BOLEXP" "BOLEXP" CLAMP

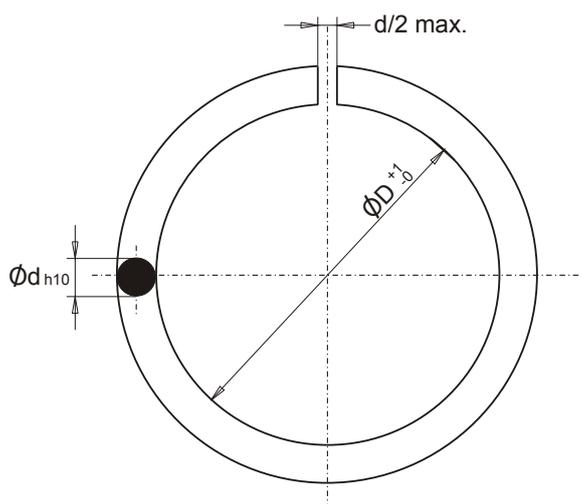


L	a	d1	d2
6	3	9	13
8	3	9	15

FORMA DE PEDIDO: L. ORDER FORM: L.



ANILLO RETENCION "COMLUMNA" PIN RING



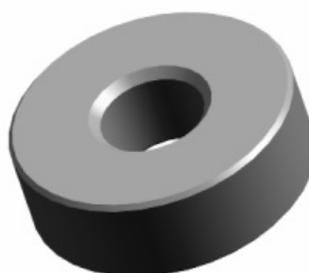
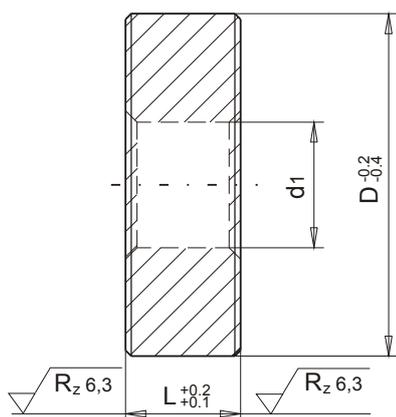
MATERIAL: Acero
MATERIAL: Steel

Diam. COLUMNA PIN diameter	D
25	22,5
32	28
40	36
50	46
63	57
80	74
100	94

FORMA DE PEDIDO: Diámetro Columna
ORDER FORM: Pin Diameter



ANILLO SUPLEMENTO "SR" SPACER RING "SR"



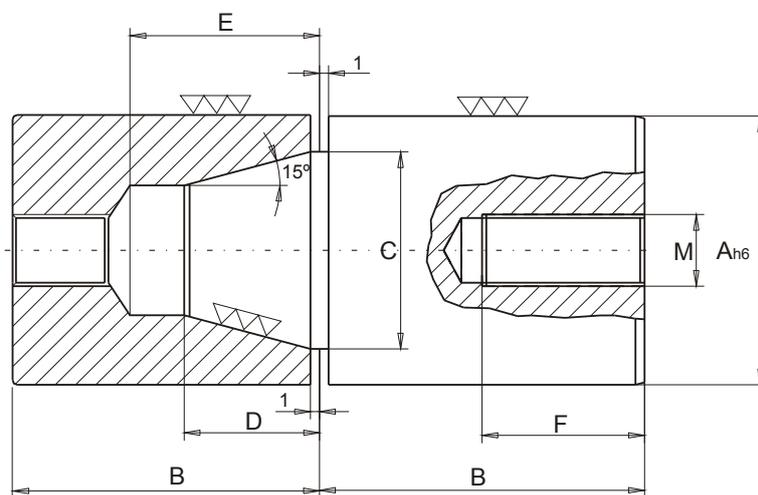
MATERIAL : 1.730
DUREZA / HARDNESS : 50-52 HRc

D	d1	L				
		9	10	19	20	30
20	8,5	*	*	*		
24	8,5	*	*	*	*	
30	11		*		*	
40	13		*		*	
50	15				*	*
60	17				*	*

FORMA DE PEDIDO: SR / D x L
ORDER FORM: SR / D x L



UNIDAD DE CENTRAJE ROUND CONER LOCKS



MATERIAL : 1.7242

DUREZA / HARDNESS : 60-62 HRc

TRATAMIENTO : Carbonitrurado (profundidad 0,6 mm.)

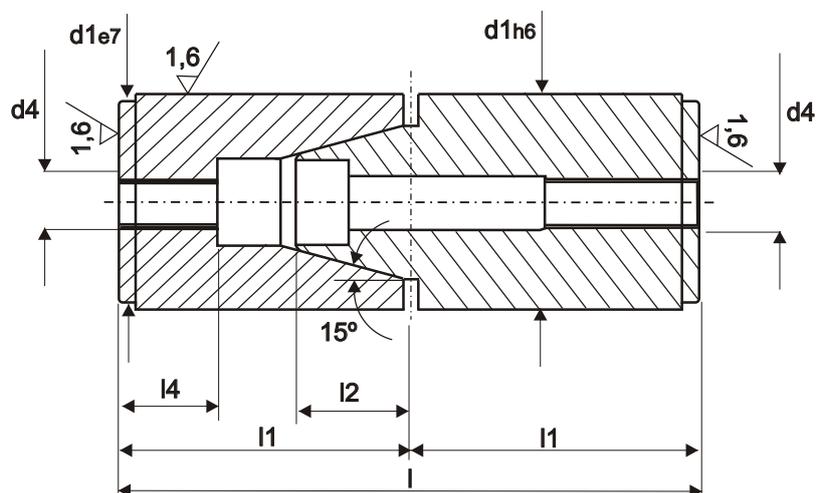
TREATMENT : Case hardened (depth 0,6 mm.)

A (h6)	B	C (g6)	D (j6)	E	F	M
20	22	16	10	13	15	M- 8
24	27	18	10	15	16	M- 8
26	27	20	10	15	16	M- 8
30	36	22	14	20	18	M-10
32	36	25	14	20	18	M-10
40	46	30	18	24	20	M-12
50	56	40	25	32	25	M-14
60	76	46	30	40	30	M-16

FORMA DE PEDIDO / ORDER FORM : A



UNIDAD DE CENTRAJE "M" CENTERING UNIT "M"



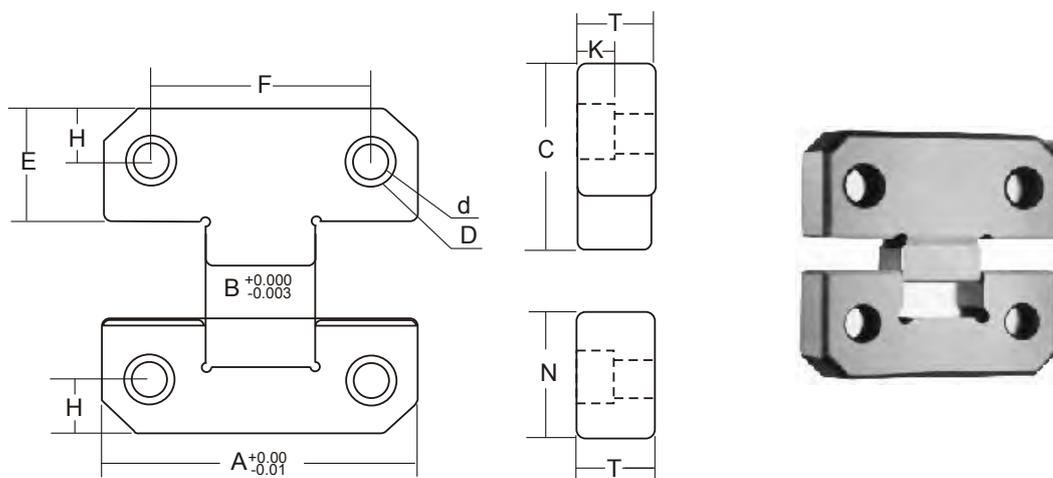
MATERIAL : 1.7131 \approx 60 HRC

l	l1	l2	l4	d4	d1
24	12	3,3	5	M 4	10
34	17	4,5	7	M 4	12
34	17	6	7	M 5	14
34	17	6	7	M 5	16
54	27	9	11	M 8	20
54	27	10	11	M 8	26
72	36	14	13	M10	30
92	46	18	13	M10	42

FORMA DE PEDIDO / ORDER FORM : d1 x l



ALINEADOR DE CIERRE STRAIGHT SIDE LOCKS



MATERIAL: 1.1625 (DIN) Acero Templado / *Hardened steel.*

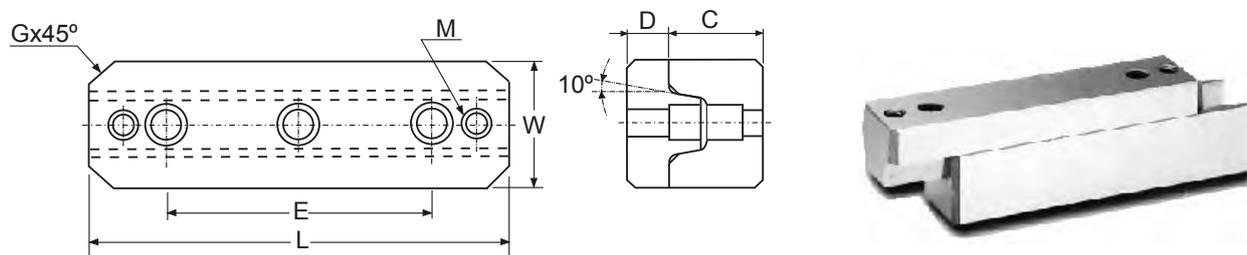
DUREZA / HARDNESS : HRc 58 - 60

A	B	C	D	d	E	F	H	T	K	N
38	15	24.6	9.5	5.5	17	22	7	13	5.5	17
50	17	30	10.5	6.5	21.5	34	11	16	8	21.5
75	25	50	16.5	10.5	36	50	18	19	12	36
100	35.4	65	16.5	10.5	45	70	22	19	12	45
125	45	65	16.5	10.5	45	84	22	25	12	45

FORMA DE PEDIDO / ORDER FORM : A



REGLE CENTRADOR INSIDE TAPERED LOCKS



MATERIAL: 1.1625 (DIN) Acero Templado / *Hardened steel.*

DUREZA / HARDNESS : HRc 58 - 60

E	L	W	D	C	G	M
0	50	25	8	17.5	5	M5
60	100	30	10	22	4	M6
100	150	40	13	25	5	M8

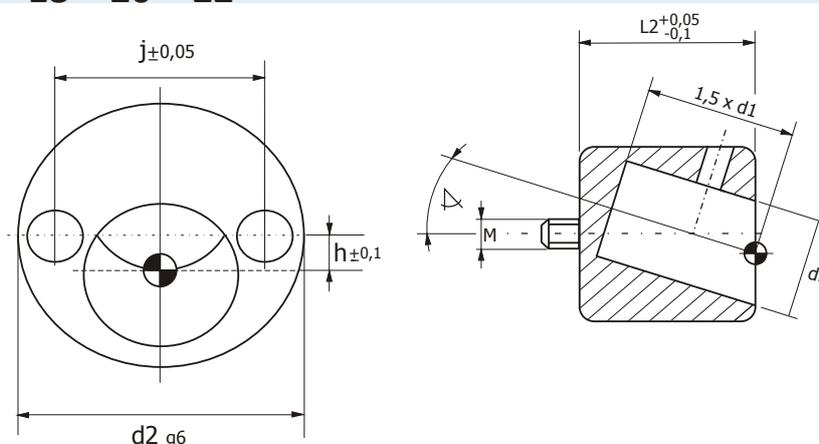
FORMA DE PEDIDO / ORDER FORM : W



SOPORTE DE COLUMNA INCLINADA REFERENCIA " ES "

ANGLE PIN SUPPORT REFERENCE " ES "

7°- 10°- 12°- 15°- 18°- 20°- 22°



TODAS LAS COTAS DE LA TABLA DE DIMENSIONES SON VALIDAS PARA CUALQUIERA DE LOS GRADOS DISPONIBLES: 7°, 10°, 12°, 15°, 18°, 20° Y 22°

ALL OF THE BENCHMARKS IN THE DIMENSION TABLE ARE VALID FOR ANY OF THE AVAILABLE DEGREES: 7°, 10°, 12°, 15°, 18°, 20° AND 22°

Materials: Soporte base 1.2312, Columna 1.5732 58-60 HRC, Tornillo 12-9

Materials: Base support 1.2312, Pin 1.5732, 58-60 HRC, Screw 12-9

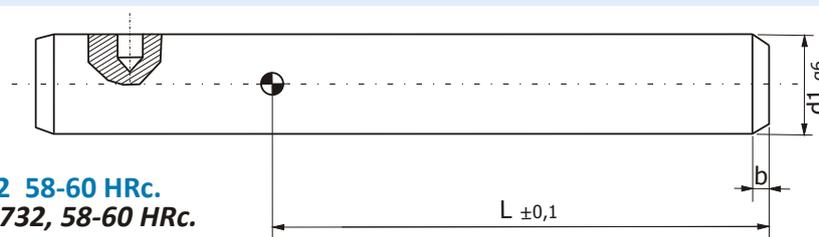
d1	d2	L2	j	h	M
12	24	22	17,5	2,5	4
16	30	28	22,5	3	5
20	38	36	28	4	6
25	48	45	36	5	8
30	58	55	43	6	10

FORMA DE PEDIDO: ES + Angulo + Ø Columna ORDER FORM: ES + Angle + Ø Pin



COLUMNA INCLINADA " EP "

ANGLE PIN " EP "



Materials: 1.5732 58-60 HRC.

Materials: Pin 1.5732, 58-60 HRC.

d1	b	L1							
		50	75	100	125	150	175	200	250
12	4	*	*	*	*	*	*	*	*
16	6		*	*	*	*	*	*	*
20	6			*	*	*	*	*	*
25	6				*	*	*	*	*
30	8					*	*	*	*

FORMA DE PEDIDO: EP + Ø Columna + Largo columna L1

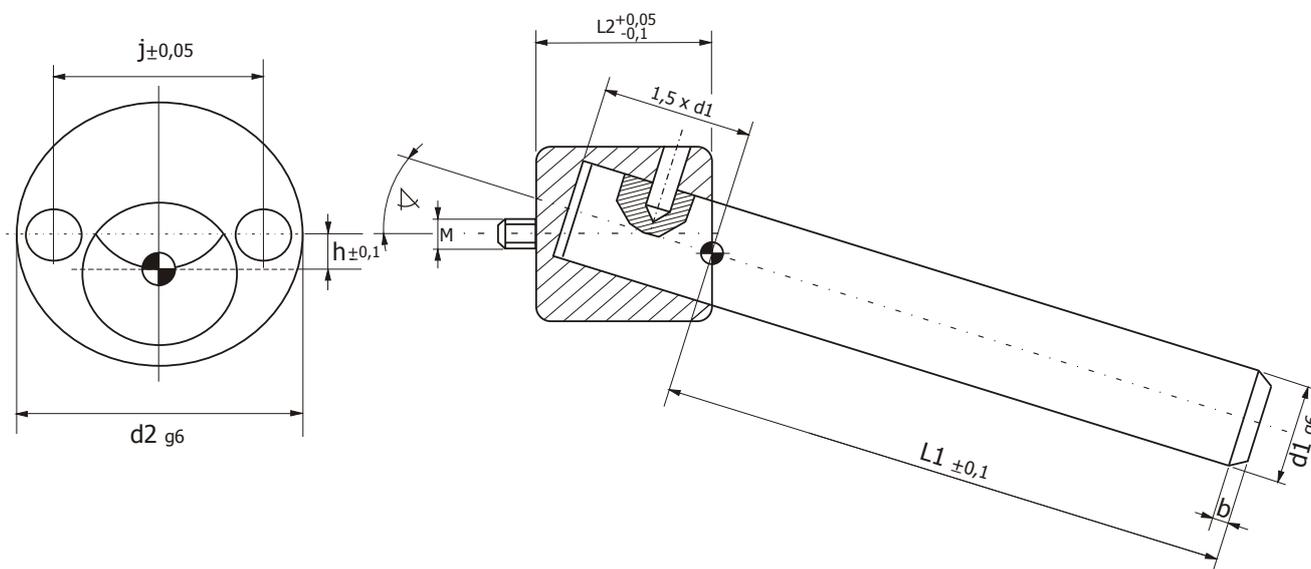
ORDER FORM: EP + Ø Pin + Pin length L1



CONJUNTO INCLINADO REFERENCIA " EI "

INCLINED ASSEMBLY REFERENCE " EI "

7°- 10°- 12°- 15°- 18°- 20°- 22°



TODAS LAS COTAS DE LA TABLA DE DIMENSIONES SON VALIDAS PARA CUALQUIERA DE LOS GRADOS DISPONIBLES: 7°, 10°, 12°, 15°, 18°, 20° Y 22°

ALL OF THE BENCHMARKS IN THE DIMENSION TABLE ARE VALID FOR ANY OF THE AVAILABLE DEGREES: 7°, 10°, 12°, 15°, 18°, 20° AND 22°

Materiales: Soporte base 1.2312, Columna 1.5732 58-60 HRC, Tornillo 12-9

Materials: Base support 1.2312, Pin 1.5732, 58-60 HRC, Screw 12-9

d1	d2	L2	j	h	b	M	L1							
							50	75	100	125	150	175	200	250
12	24	22	17,5	2,5	4	4	*	*	*	*				
16	30	28	22,5	3	6	5		*	*	*	*			
20	38	36	28	4	6	6			*	*	*	*		
25	48	45	36	5	6	8				*	*	*	*	
30	58	55	43	6	8	10					*	*	*	*

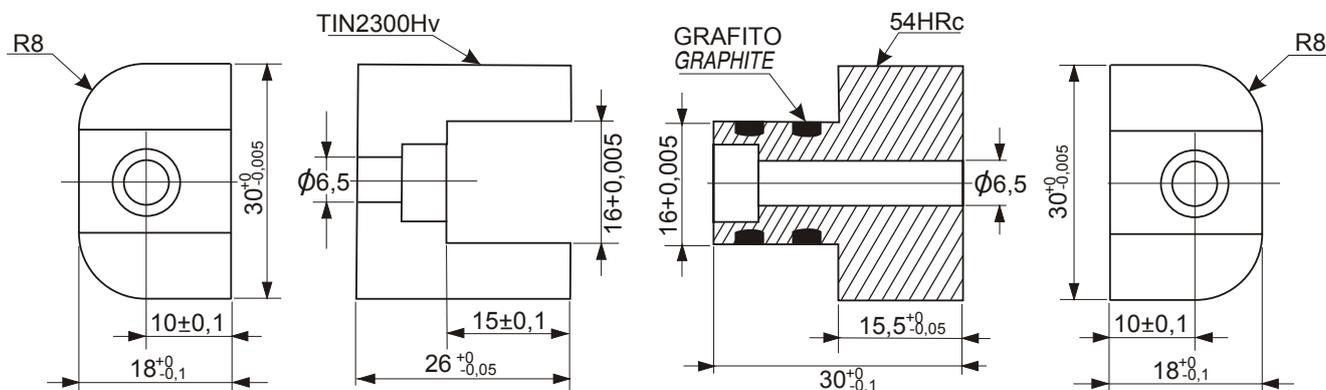
FORMA DE PEDIDO: EI + Angulo + Ø Columna + Largo columna L1

ORDER FORM: EI + Angle + Ø Pin + Pin length L1



CENTRADOR REFERENCIA " TL1 "

LOCK REFERENCE " TL1 "



MATERIAL : Acero 1.2344 a 54 HRC. + grafito y TIN 2300Hv.

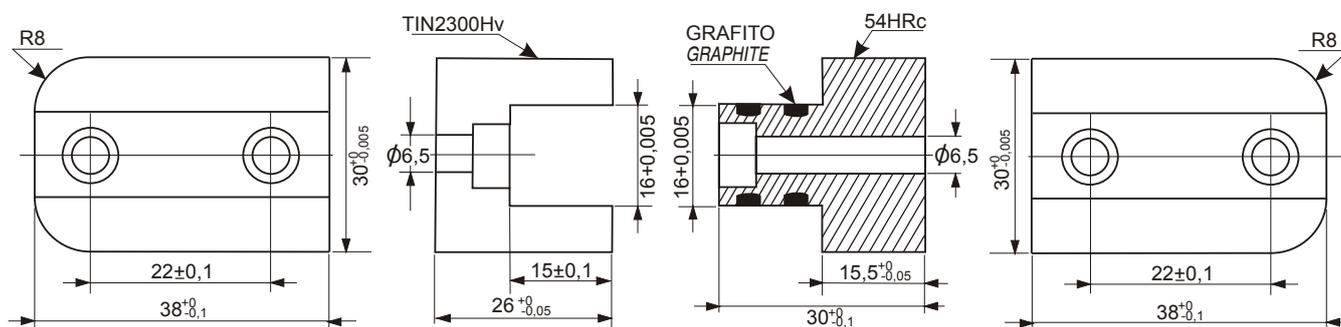
MATERIAL : Steel 1.2344 at 54 HRC. + graphite and TIN 2300 Hv.

FORMA DE PEDIDO / ORDER FORM : TL1.



CENTRADOR REFERENCIA " TL3 "

LOCK REFERENCE " TL3 "



MATERIAL : Acero 1.2344 a 54 HRC. + grafito y TIN 2300Hv.

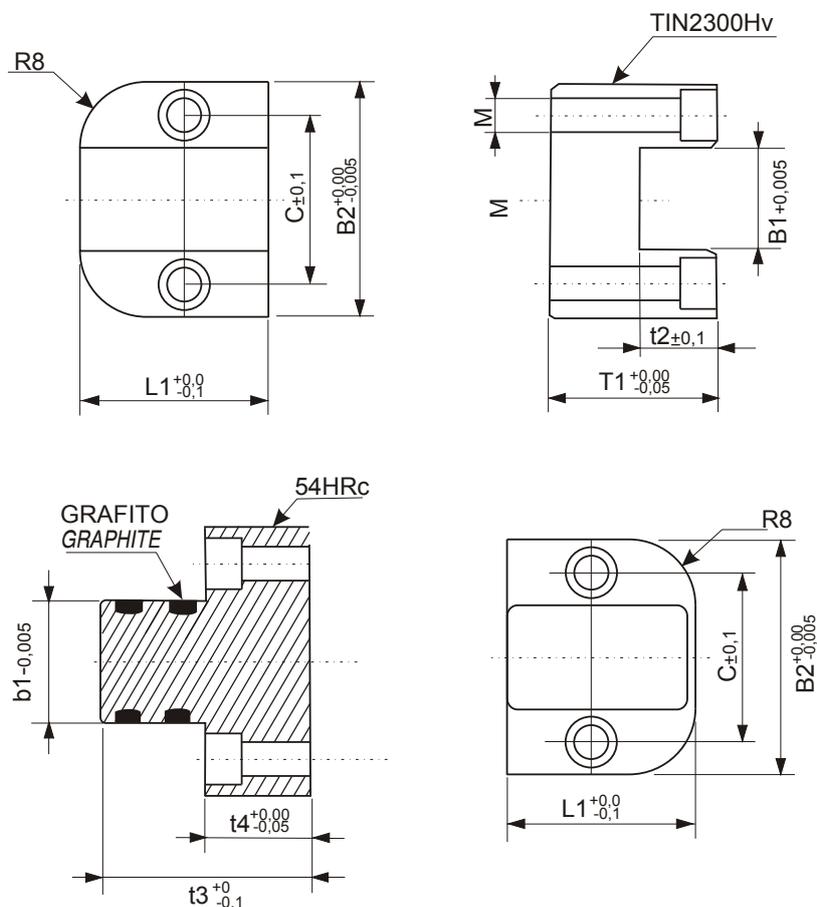
MATERIAL : Steel 1.2344 at 54 HRC. + graphite and TIN 2300 Hv.

FORMA DE PEDIDO / ORDER FORM : TL3



CENTRADOR REFERENCIA " TL5 "

LOCK REFERENCE " TL5 "



MATERIAL : Acero 1.2344 a 54 HRc. + grafito y TIN 2300Hv.
MATERIAL : Steel 1.2344 at 54 HRc. + graphite and TIN 2300 Hv.

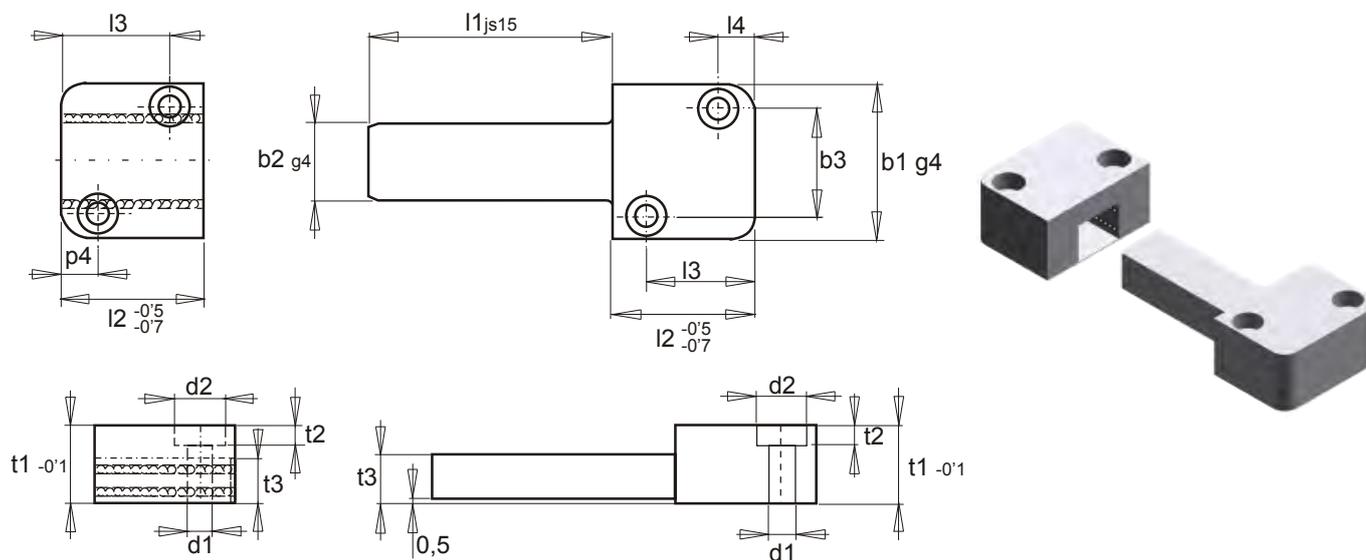
B1	B2	L1	C	t1	t2	t3	t4	M	Código Code
11	35	26	23	25	15	29,5	15	M5	TL5-35
15	45	30	30	25	15	29,5	15	M6	TL5-45
20	55	36	37,5	30	20	39,5	20	M8	TL5-55
30	75	36	52	35	25	44,5	20	M10	TL5-75

FORMA DE PEDIDO / ORDER FORM : Código / Code



CENTRADOR MOLDE-BOLAS " 507 "

BALL GUIDANCE MOULD CENTERER " 507 "



MATERIAL : Acero 1.2379 / Steel 1.2379

DUREZA : HARDNESS : 60-62 HRC.

Hembra : 1.2311 Oxidado Negro. + Bolas alta precisión

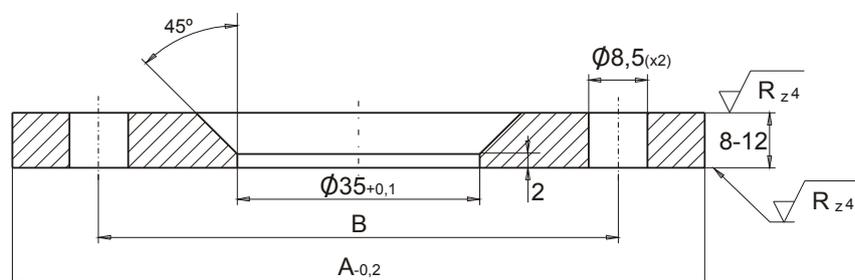
Cover : 1.2311 Black oxide finish. + High precision balls

b1	b2	b3	l1	l2	l3	l4	d1	d2	t1	t2	t3	R
45	12	29	25 50	27	19	11	6.3	11	22	6.8	14	6
50	17	35	32 63	36	27	11	6.3	11	25	6.8	15	8
63	25	45	40 80	46	35	13	8.5	15	32	9	20	8
85	35	60	50 100	56	40	15	10.5	18	36	11	23	10
100	45	74	56 112	66	48	18	18	20	40	13	25	10

FORMA DE PEDIDO / ORDER FORM : b1 x l1



DISCO CENTRADOR "DC" LOCATING RING "DC"



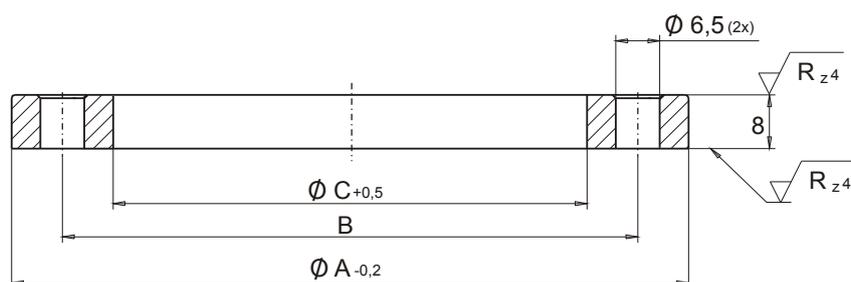
MATERIAL : DIN 1.1730

A	70	75	80	90	100	110	120	125	150	160	175	200
B	59	61	65	70	75	80	84	86	118	118	130	142

FORMA DE PEDIDO / ORDER FORM : DC / A



DISCO CENTRADOR "DCO" LOCATING RING "DCO"



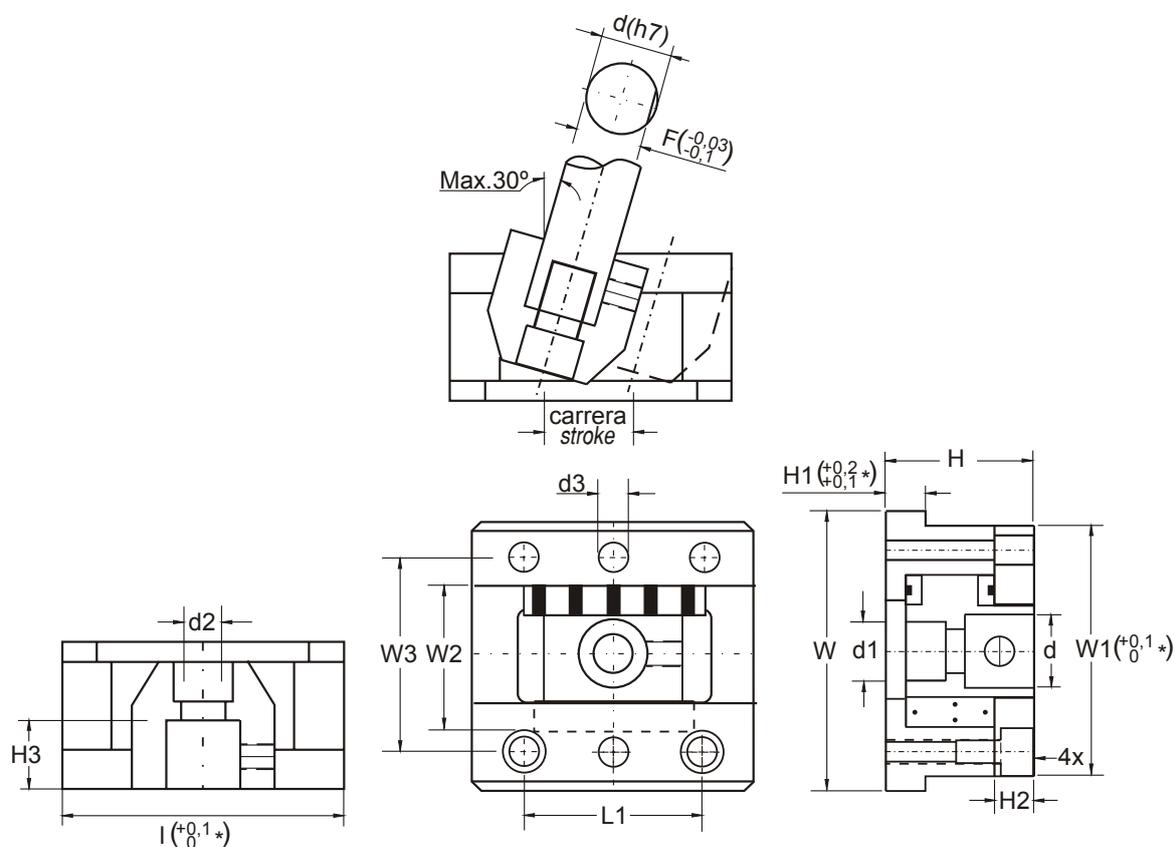
MATERIAL : DIN 1.730

A	80	90	100	110	120	125	130
B	70	77,5	85	95	105	110	115
C	60	65	70	80	90	95	100

FORMA DE PEDIDO / ORDER FORM : DCO / A



CARRO PARA CORREDERA "S" INCLINED EJECTOR CORE UNIT "S"



* Sobre medida para ajuste por parte del cliente
* Oversize for adjustment

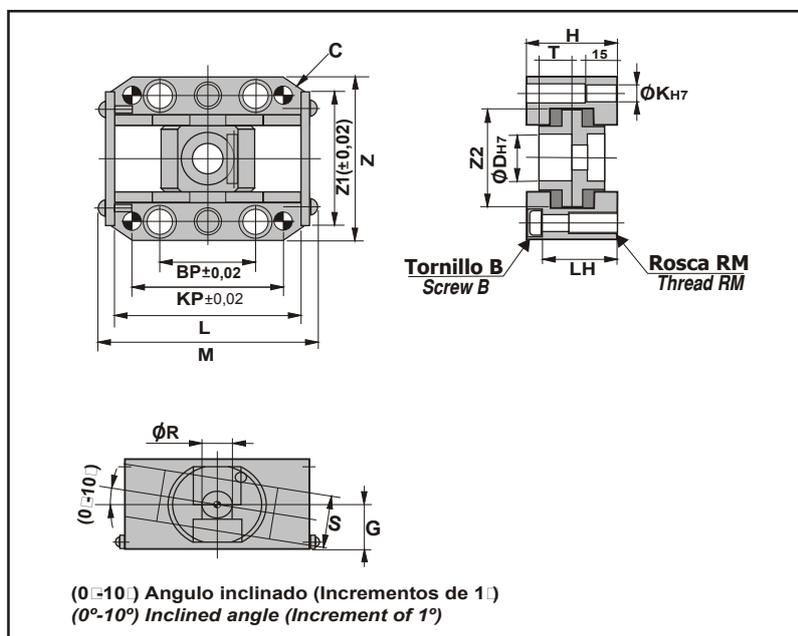
TEMPERATURA MAXIMA DE TRABAJO : 300°C
MAXIMUM WORKING TEMPERATURE : 300°C
ANGULO MAXIMO DE TRABAJO : 30°
MAXIMUM WORKING ANGLE : 30°

d h7	d1	d2	d3 H7	W	W1 +0,1 0	W2	W3	L	L1	H	H1	H2	H3 +0,02 -0,02	F -0,03 -0,1	Carrera Stroke
8	8	4.5	3	33	30	19	24	32	20	22	5	7	8	7	10
10	10	5.5	4	45	40	25	32	45	30	27	5	8	10	9	18
12	11	7	6	57	51	31	39	50	35	32	7	10	12	10	20
16	14	9	6	65	58	38	46	65	40	36	8	10	16	14.5	25
20	17	11	8	80	72	44	56	80	55	42	11	12	20	18	30
25	20	14	10	93	85	52	66	90	65	50	15	15	25	22.5	35
30	20	14	10	101	93	60	74	100	70	55	15	15	30	27	40
35	20	14	10	120	110	70	85	120	80	62	15	18	35	32	45
40	26	17.5	10	130	120	80	95	135	90	70	15	18	40	36	50
45	26	17.5	10	140	130	90	105	150	110	80	15	20	45	40	55

FORMA DE PEDIDO: d
ORDER FORM: d



CARRO PARA CORREDERA INCLINADO "F" EJECTOR CORE UNIT WITH INCLINED SLIDEWAY "F"



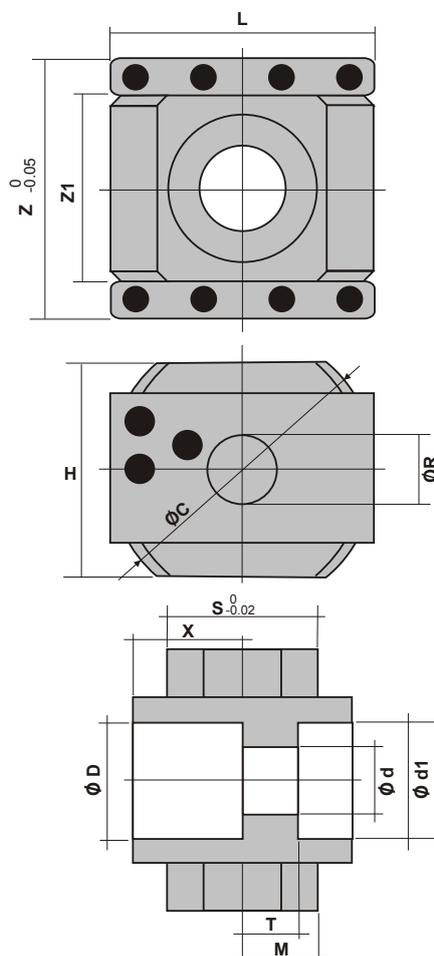
TEMPERATURA MAXIMA DE TRABAJO: 300° / MAXIMUM WORKING TEMPERATURE: 300°
SUMINISTRABLE ENTRE 0° Y 10° / AVAILABLE BETWEEN 0° AND 10°

ØD	G	Z	Z1	Z2	L	M	BP	KP	K	H	LH	S	C	B	RM	TH	T	Y	ØR
8	12	41	33	24	44	54	12	25	4	24		13	3	M3	M4		8	11	6
10	14	47	38	28	50	60	16	30	5	28		17	3	M4	M5		8	11	8
12	18	53	42	31	60	70	20	40	6	36		20	4	M6	M8		10	13	10
16	20	64	50	36	70	80	25	50	6	40	33,5	24	6	M6	M8	73	12	15	12
20	23	76	60	43	75	85	30	55	8	46	37,5	24	8	M8	M10	81	15	18	12
25	24	81	65	48	85	95	40	65	8	48	39,5	26	8	M8	M10	88	17,5	20,5	14
30	27	88	72	55	100	110	50	80	8	54	45,5	30	8	M8	M10	97	19	22	18
35	30	100	80	64	115	125	50	85	10	60		34	8	M10	M12	103	20	23	18
40	32,5	108	88	72	125	135	50	85	10	65		38	8	M10	M12	112	21,5	24,5	20

FORMA DE PEDIDO / ORDER FORM : D + Grados ángulo / D + Angle degrees



PARTE DESLIZANTE DEL CARRO PARA CORREDERA "HF" SLIDE PART FOR EJECTOR CORE UNIT "HF"



D	Z	Z1	L	S	H	C	ØR	M	d	d1	T	X	Y	Tornillos recomendados recomm. fixing screws
8	24	12	25	13	16	20	6	6,5	5	10	3	8	11	M4 x 10
10	28	14	32	17	16	20	8	8,5	6	12	4	8	11	M5 x 12
12	31	17	40	20	20	25	10	10	7	13	5	10	13	M6 x 14
16	36	21	45	24	24	30	12	12	9	16	6	12	15	M8 x 20
20	43	28	45	24	30	40	12	12	11	20	7	15	18	M10 x 25
25	48	33	50	26	35	45	14	13	14	25	8	17,5	20,5	M12 x 30
30	55	38	60	30	38	50	18	15	14	25	10	19	22	M12 x 30
35	64	44	70	34	40	55	18	17	14	25	10	20	23	M12 x 30
40	72	50	80	38	43	60	20	19	18	32	10	21,5	24,5	M16 x 35

FORMA DE PEDIDO / ORDER FORM : D



COLUMNA LISA EF - H100

GUIDE PIN EF - H100



MATERIAL: Acero 1.7264
MATERIAL: Steel 1.7264
DUREZA: 60 - 62 HRc.
HARDNESS: 60 - 62 HRc.

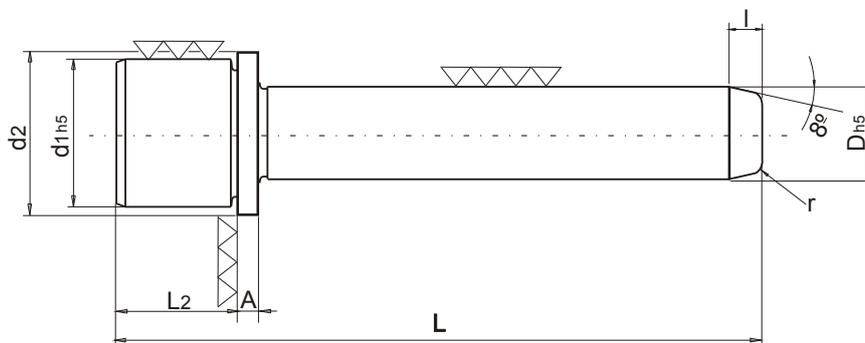
D	l	r	T	L																	
				110	120	130	140	160	180	200	220	240	260	280	300	320	350	400	450	500	
15-16	5	1,5	2,5	*	*	*	*	*													
18-19	6	2			*	*	*	*	*	*	*										
24-25	7	2,5	3				*	*	*	*	*	*									
30-32	8	3						*	*	*	*	*	*	*	*						
40-42	10	4	3,5					*	*	*	*	*	*	*	*	*	*	*			
50-52	12	5							*	*	*	*	*	*	*	*	*	*	*		
60-63	13	6								*	*	*	*	*	*	*	*	*	*	*	
80	15	6	4							*	*	*	*	*	*	*	*	*	*	*	

FORMA DE PEDIDO: EF-H100 / D x L ORDER FORM: EF-H100 / D x L



COLUMNA DE DOBLE DIAMETRO EH - H102

DOUBLE DIAMETER GUIDE PIN EH - H102



MATERIAL: Acero 1.7264
MATERIAL: Steel 1.7264
DUREZA: 60 - 62 HRc.
HARDNESS: 60 - 62 HRc.

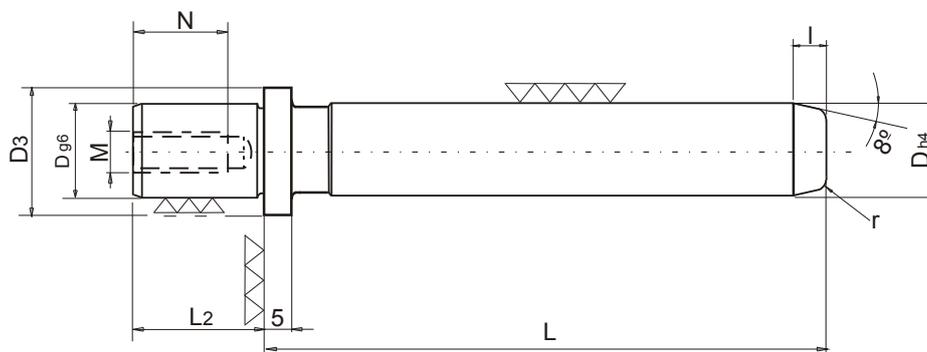
D	d1	d2	L2	l	r	A	L																			
							130	140	160	170	180	190	200	212	225	235	240	250	275	300	325	355				
15-16	28	34	25	5	2	5	*	*																		
18-19	32	40	30	6	2	5	*	*	*																	
24-25	40	45	35	7	3	5		*	*	*	*															
30-32	48	55	40	8	3	5			*	*	*	*	*													
40-42	58	70	45	10	4	5					*	*	*	*	*		*									
50-52	68	80	50	12	5	5						*	*	*		*										
60-63	85	95	55	13	6	5										*		*	*	*						
80	100	120	60	15	6	6,5										*		*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO: EH-H102 / D x L ORDER FORM: EH-H102 / D x L



COLUMNA GUIA DE CAMBIO RAPIDO EK - H103

DOUBLE DIAMETER GUIDE PIN EK - H103



MATERIAL: Acero 1.7264
MATERIAL: Steel 1.7264
DUREZA: 60 - 62 HRc.
HARDNESS: 60 - 62 HRc.

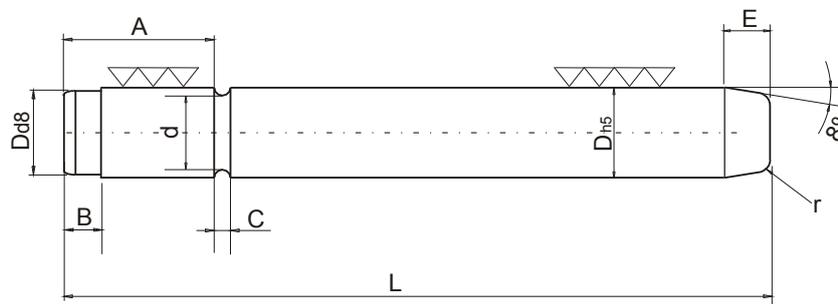
D	D3	L2	M	N	l	r	L																
							100	110	120	130	140	150	160	170	180	200	220	240	260	280	300	320	
18-19	25	20	8	20	6	2	*	*	*	*	*	*	*										
24-25	32	25	10	25	7	3	*	*	*	*	*	*	*	*									
30-32	40	30	10	25	8	3			*	*	*	*	*	*	*	*							
40-42	50	35	12	30	10	4				*	*	*	*	*	*	*	*	*	*				
50-52	62	45	12	30	12	5						*	*	*	*	*	*	*	*	*	*	*	*
60-63	73	49	12	30	13	6								*	*	*	*	*	*	*	*	*	*
80	93	59	12	30	15	6												*	*	*	*	*	*

FORMA DE PEDIDO: EK-H103 / D x L1 ORDER FORM: EK-H103 / D x L1



COLUMNA DE RETENCION INTERMEDIA H105

INTERMEDIATE RETAINER GUIDE PIN H105



MATERIAL: Acero 1.7264
MATERIAL: Steel 1.7264
DUREZA: 60 - 62 HRc.
HARDNESS: 60 - 62 HRc.

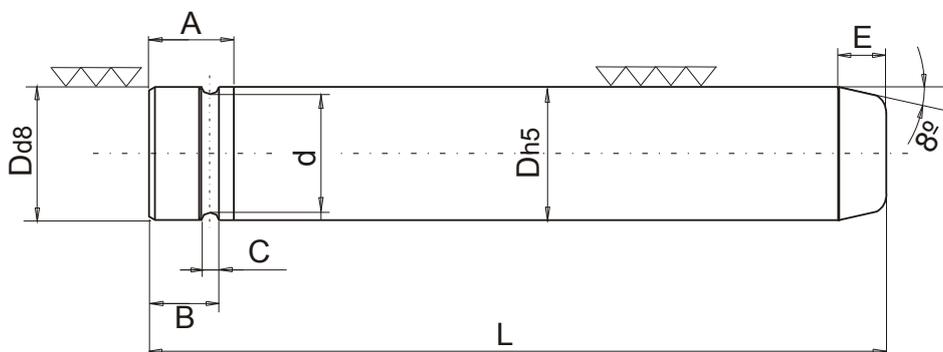
D	d	A	B	C	E	r	L														
							140	160	180	200	220	240	260	280	300	320	350	400	450		
25	22,3	40	8	3	7	3	*	*	*	*	*	*	*								
32	27,8	52	10	4	8	3		*	*	*	*	*	*	*	*	*					
40	35,8	63	12	4	10	4			*	*	*	*	*	*	*	*	*				
50	45,8	80	12	4	12	5			*	*	*	*	*	*	*	*	*				
63	56,8	100	18	6	13	6							*	*	*	*	*				
80	73,8	125	18	6	15	6									*	*	*	*			
100	93,8	160	18	6	15	6												*	*		

FORMA DE PEDIDO: EG-H105 D x L ORDER FORM: EG-H105/ D x L



COLUMNA DE RETENCION INFERIOR EE-H106

LOW RETAINER GUIDE PIN EE-H106



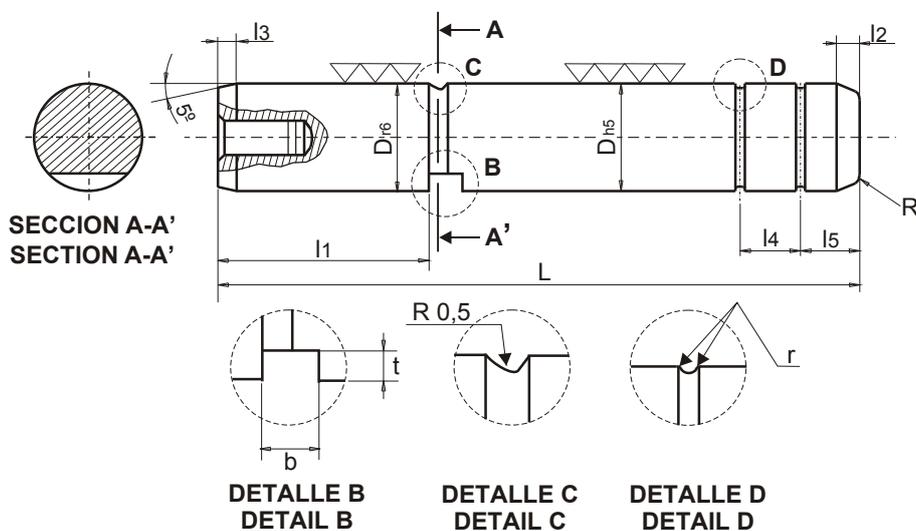
MATERIAL: Acero 1.7264
MATERIAL: Steel 1.7264
DUREZA: 60 - 62 HRc.
HARDNESS: 60 - 62 HRc.

D	d	A	B	C	E	r	L													
							140	160	180	200	220	240	260	280	300	320	350	400	450	
25	22,3	8	6	2,7	7	3	*	*	*	*	*	*	*							
32	27,8	12	10	4,2	8	3		*	*	*	*	*	*	*	*					
40	35,8	12	10	4,2	10	4			*	*	*	*	*	*	*	*				
50	45,8	12	10	4,2	12	5			*	*	*	*	*	*	*	*				
63	56,8	18	16	6,2	13	6						*	*	*	*	*				
80	73,8	18	16	6,2	15	6								*	*	*	*			
100	93,8	18	16	6,2	15	6											*	*		

FORMA DE PEDIDO: EE-H106 D x L
ORDER FORM: EE-H106 D x L



COLUMNA DE RETENCION INTERMEDIA EJ-H107 INTERMEDIATE RETAINER GUIDE PIN EJ-H107



NOTA: ROSCA M-16 x 32 (Solo para diámetro 100)
NOTE: THREAD M-16 x 32 (Only for diameter 100)



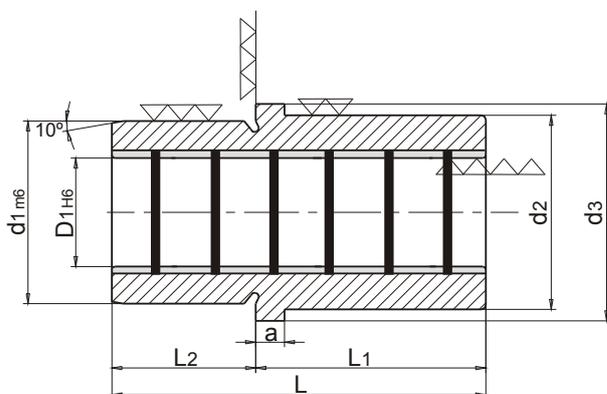
MATERIAL: Acero 1.7264
MATERIAL: Steel 1.7264
DUREZA: 60 - 62 HRC.
HARDNESS: 60 - 62 HRC.

D	l ₁	l ₂	l ₃	l ₄	l ₅	b	t	r	L															
									125	140	160	180	200	224	250	280	315	335	355	400	450			
25	45	7	4	13	20	5,5	3	3	*	*	*	*		*										
32	45	8	4	16	30	5,5	3	3		*	*	*	*	*										
40	56	10	4	16	30	8,5	4	4		*	*	*	*	*	*	*								
50	70	12	4	20	40	8,5	5	5			*	*	*	*	*	*	*	*	*	*				
63	80	13	4	32	40	10,5	6,5	6				*	*	*	*	*	*	*	*	*	*			
80	100	15	4	32	50	11	8	6						*	*	*	*	*	*	*	*			
100	125	15	4	32	50	11	10	6								*	*	*	*	*	*	*	*	*

FORMA DE PEDIDO: EJ-H107 D x L
ORDER FORM: EJ-H107 D x L



CASQUILLO CON VALONA PARA COLUMNA "BGM113" PIN BUSHING "BGM113"



MATERIAL: Exterior de acero. Interior de aleación de Bronce con líneas de grafito.
Steel backed Bronze alloy lined with solid graphite.

DATOS TECNICOS: TECHNICAL DATA:

Acero / Steel	Bronce / Bronze	Máx. carga estática Máx. Static load	Máx. carga dinámica Máx. dynamic load	Máx. velocidad Máx. speed	Máx. PV N/mm ² ·m/s	Temperatura (C°) Temperature (C°)
≥45 HRC	≥70 HB	100 N/mm ²	30 N/mm ²	1.0 m/s	1,2	-50 +250

D1	d1	d2	d3	a	L1	L2	L
15	28	30	34	5	30	20	50
16	28	30	34	5	30	20	50
18	32	34	38	5	35	25	60
19	32	34	38	5	35	25	60
24	40	43	48	5	45	30	75
25	40	43	48	5	45	30	75
30	48	53	58	5	50	30	80
32	48	53	58	5	50	30	80
40	58	66	68	5	50	35	85
42	58	66	68	5	50	35	85
50	68	77	82	5	55	45	100
52	68	77	82	5	55	45	100

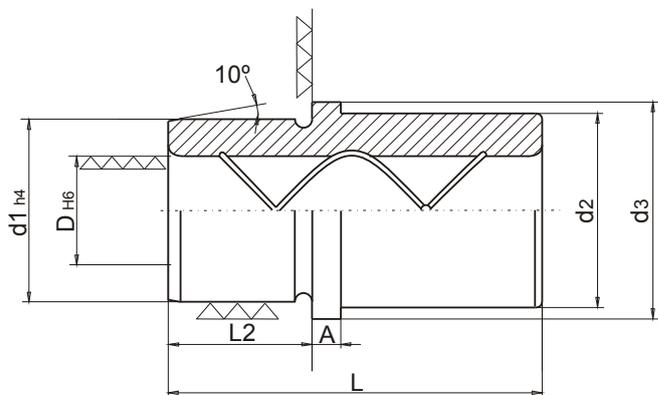
FORMA DE PEDIDO: D1 x L

ORDER FORM: D1 x L



CASQUILLO VALONA EM-H201

BUSH EM-H201 FOR PINS



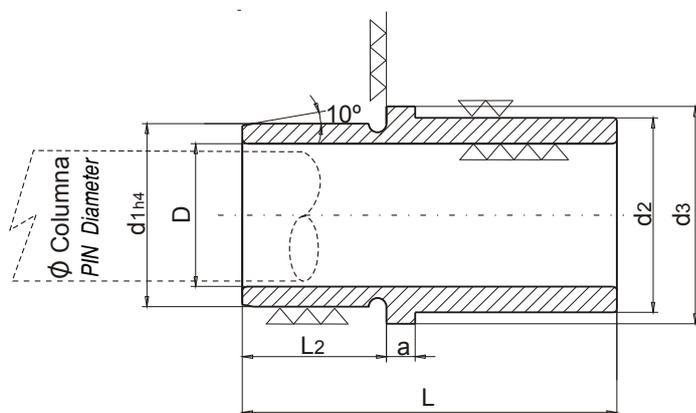
MATERIAL: 1.7264
DUREZA: 60-62 HRc. **HARDNESS:** 60-62 HRc.
 También se fabrican en Broce al Aluminio (H221)
 Also produced in Broze-Aluminium (H221)

D	d1	d2	d3	L2	A	L								
						50	60	65	75	80	85	100	115	125
15-16	28	30	34	20	5	*								
18-19	32	34	38	25	5		*							
24-25	40	43	48	30	5		*		*					
30-32	48	53	58	30	5		*			*				
40-42	58	66	72	35	5			*			*			
50-52	68	77	82	45	5				*			*		
60-63	85	90	95	50	5								*	
80	100	112	120	55	6,5									*

FORMA DE PEDIDO: EM-H201 / D x L
ORDER FORM: EM-H201 / D x L



CASQUILLO VALONA PARA JAULA DE BOLAS EO-H211 BUSH EO-H211 FOR BALL CAGES



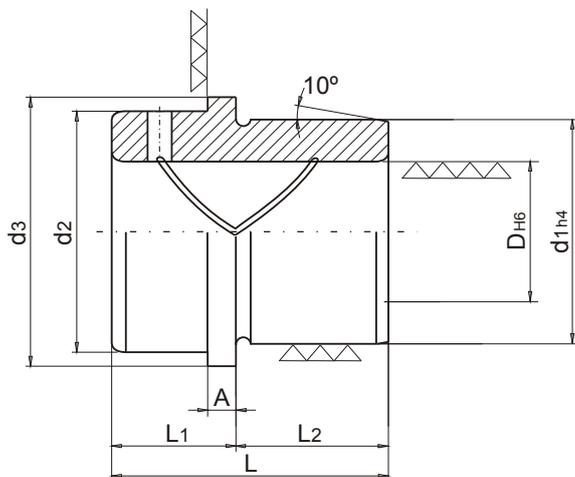
MATERIAL: 1.7264
DUREZA: 60-62 Hrc. **HARDNESS:** 60-62 Hrc.

Ø Col. Pin Ø	D	d1	d2	d3	L2	A	L								
							50	60	65	75	80	85	100	115	125
15-16	21-22	28	30	34	20	5	*								
18-19	24-25	32	34	38	25	5		*							
24-25	30-31	40	43	48	30	5		*		*					
30-32	38-40	48	53	58	30	5		*			*				
40-42	48-50	58	66	72	35	5			*			*			
50-52	58-60	68	77	82	45	5				*			*		
60-63	72-75	85	90	95	50	5								*	
80	92	100	112	120	55	7									*

FORMA DE PEDIDO: EO-H211 / D x L
ORDER FORM: EO-H211 / D x L



CASQUILLO VALONA CORTA EP-H202 SHORT HEAD BUSH EP-H202 FOR PINS



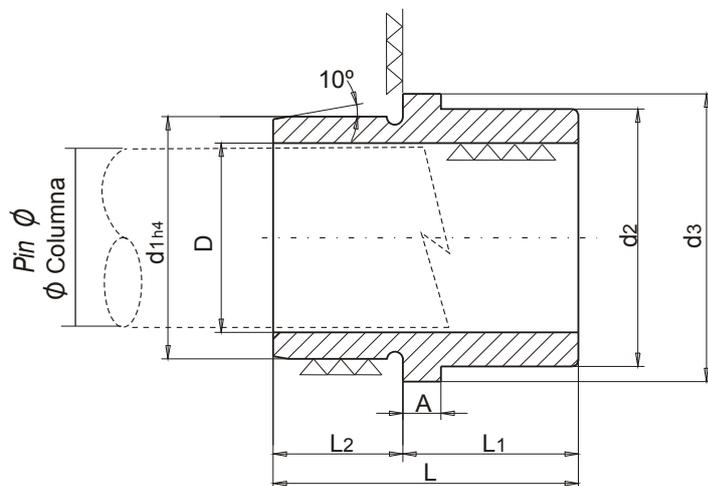
MATERIAL: 1.7264 y Bronce and Bronce
DUREZA: 60-62 HRc. **HARDNESS:** 60-62 HRc.
 Tambien se fabrican en Broce al Aluminio (H222)
 Also produced in Broze-Aluminium (H222)

D	d1	d2	d3	L2	A	L								
						31	33	40	45	48	57	70	100	
15-16	28	30	34	15	5	*								
18-19	32	34	38	17	5		*							
24-25	40	43	48	22	5			*						
30-32	48	53	58	27	5				*					
40-42	58	66	72	30	5					*				
50-52	68	77	82	35	5						*			
60-63	85	90	95	40	5							*		
80	100	112	120	55	6,5								*	

FORMA DE PEDIDO: EP-H202 / D x L
ORDER FORM: EP-H202 / D x L



CASQUILLO VALONA CORTA PARA JAULA DE BOLAS ER-H212 SHORT HEAD BUSH ER-H212 FOR BALL CAGES



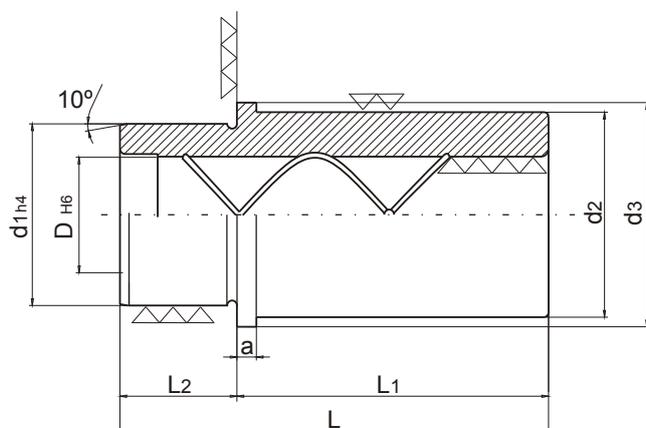
MATERIAL: 1.7264
DUREZA: 60-62 HRc. **HARDNESS:** 60-62 HRc.

Ø Col. Pin Ø	D	d1	d2	d3	L2	A	L								
							31	33	40	45	48	57	70	100	
15-16	21-22	28	30	34	15	5	*								
18-19	24-25	32	34	38	17	5		*							
24-25	30-31	40	43	48	22	5			*						
30-32	38-40	48	53	58	27	5			*						
40-42	48-50	58	66	72	30	5				*					
50-52	58-60	68	77	82	35	5					*				
60-63	72-75	85	90	95	40	5						*			
80	92	100	112	120	55	6,5									*

FORMA DE PEDIDO: ER-H212 / D x L
ORDER FORM: ER-H212 / D x L



CASQUILLO VALONA LARGA EML-H203 LONG HEAD BUSH EML-H203



MATERIAL: 1.7264

Tambien se fabrican en Bronce al Aluminio (H223).

Also produced in Bronze-Aluminium (H223).

DUREZA: 60-62 HRC. **HARDNESS:** 60-62 HRC.

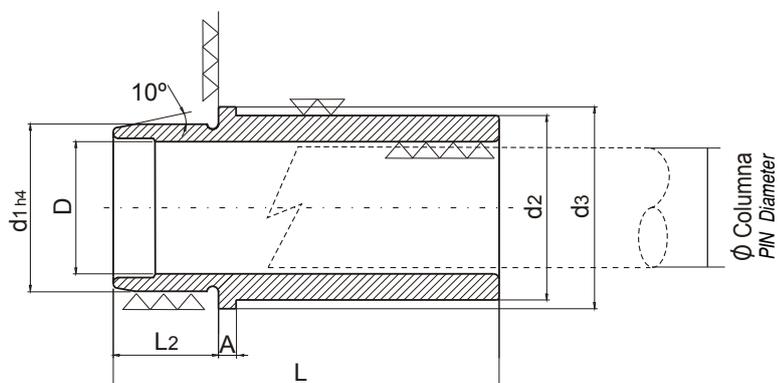
D	d1	d2	d3	L2	A	L									
						105	110	115	125	130	135	145	150	180	
18-19	32	34	38	25	5	*			*						
24-25	40	43	48	30	5		*			*					
30-32	48	53	58	30	5		*			*					
40-42	58	66	72	35	5			*			*				
50-52	68	77	82	45	5				*			*			
60-63	85	90	95	50	5					*			*		
80	100	112	120	55	6,5										*

FORMA DE PEDIDO: EML-H203 / D x L

ORDER FORM: EML-H203 / D x L



CASQUILLO VALONA LARGA PARA JAULA DE BOLAS EOL-H213 LONG HEAD BUSH EOL-H213 FOR BALL CAGES



MATERIAL: 1.7264
DUREZA: 60-62 HRC. **HARDNESS:** 60-62 HRC.

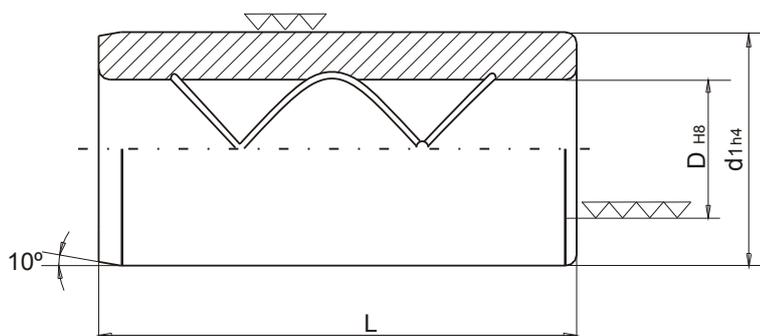
Ø Col. Pin Ø	D	d1	d2	d3	L2	A	L								
							105	110	115	125	130	135	145	150	180
18-19	24-25	32	34	38	25	5	*			*					
24-25	30-31	40	43	48	30	5		*			*				
30-32	38-40	48	53	58	30	5		*			*				
40-42	48-50	58	66	72	35	5			*			*			
50-52	58-60	68	77	82	45	5				*			*		
60-63	72-75	85	90	95	50	5					*			*	
80	92	100	112	120	55	7									*

FORMA DE PEDIDO: EOL-H213 / D x L
ORDER FORM: EOL-H213 / D x L



CASQUILLO LISO ES-H204

BUSH ES-H204 FOR PINS



MATERIAL: 1.7264
DUREZA: 60-62 HRC. **HARDNESS:** 60-62 HRC.

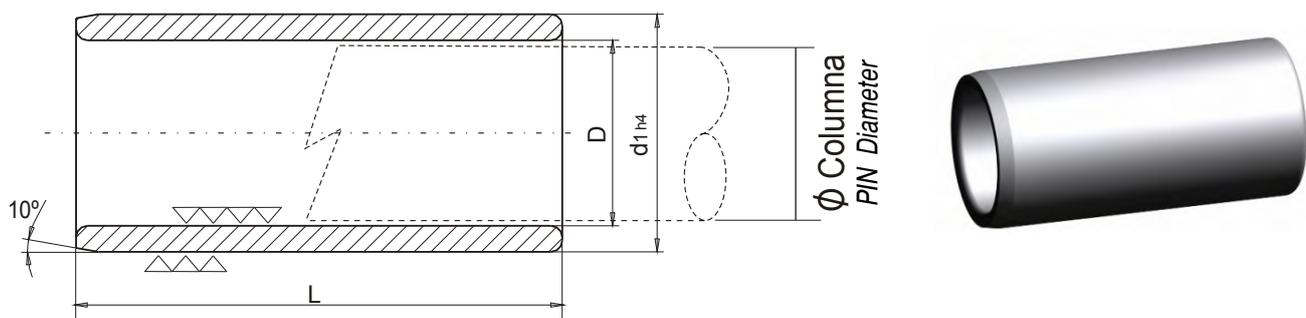
D	d1	L									
		35	55	60	65	70	75	80	85	95	115
15-16	28	*		*							
18-19	32		*		*						
24-25	40		*			*					
30-32	48			*			*				
40-42	58					*			*		
50-52	68							*		*	
60-63	85							*		*	
80	100									*	*

FORMA DE PEDIDO: ES-H204 / D x L
ORDER FORM: ES-H204 / D x L



CASQUILLO LISO PARA JAULA DE BOLAS ET-H214

BUSH ET-H214 FOR BALL CAGES



MATERIAL: 1.7264
DUREZA: 60-62 HRC. **HARDENES:** 60-62 HRC.

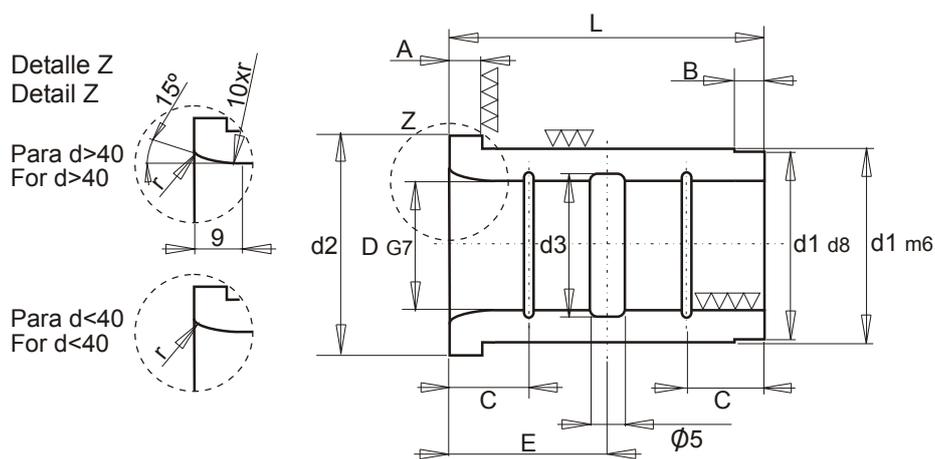
Ø Col. Pin Ø	D	d1	L									
			35	55	60	65	70	75	80	85	95	115
15-16	21-22	28	*		*							
18-19	24-25	32		*		*						
24-25	30-31	40		*			*					
30-32	38-40	48			*			*				
40-42	48-50	58					*			*		
50-52	58-60	68							*		*	
60-63	72-75	85							*		*	
80	92	100									*	*

FORMA DE PEDIDO: ET-H214 / D x L
ORDER FORM: ET-H214 / D x L



CASQUILLO DE BRONCE EV-H225

BRONZE BUSH EV-H225



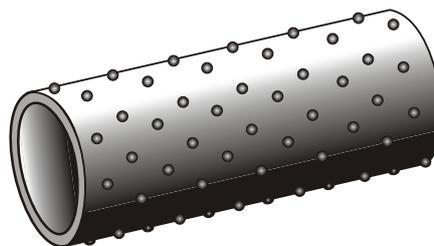
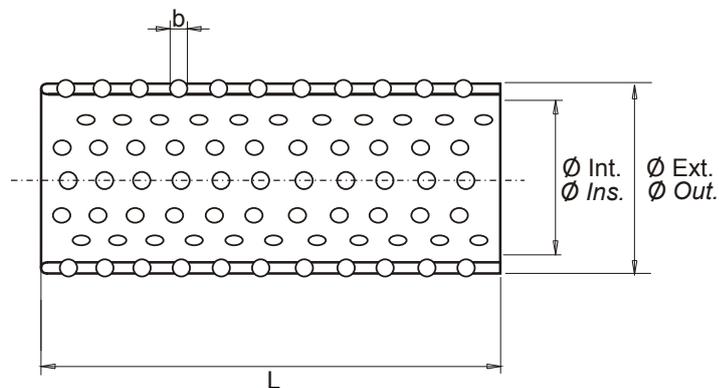
MATERIAL: Bronce al Aluminio DIN 1714
MATERIAL: Bronze Aluminium DIN 1714

D	d1	d2	d3	A	B	C	E	g	r	L
20	28	32	22	4	5	6	16	*	2	32
24-25	35	40	27	5	7	8	20	*	2	40
30-32	44	50	34	6	8	12	25	*	3	50
40-42	52	60	42	8	8	16	31,5	*	3	63
50-52	63	71	52	10	8	20	40	8	3	80
63	80	90	65	12	10	25	50	10	3	100
80	100	112	82	16	10	35	62,5	10	4	125
100	125	140	102	20	10	40	80	10	4	160

FORMA DE PEDIDO: EV-H225 / D x L
ORDER FORM: EV-H225 / D x L



JAULA DE BOLAS BALL CAGES



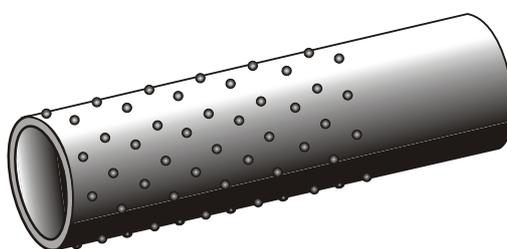
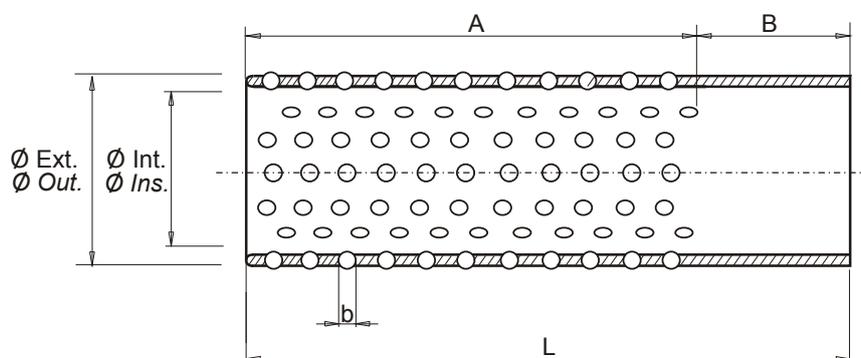
MATERIAL: Aluminio o Bronce.
MATERIAL: Aluminium or Bronze.

Ø INT. INS. Ø	Ø EXT. Ø OUT.	b	L																		
			30	35	40	45	50	55	60	65	75	80	85	90	100	110	120	140	160	180	200
15-16	21-22	3	*	*		*		*		*	*										
18-19	24-25	3		*		*	*		*	*	*	*		*							
24-25	30-31	3			*	*	*	*		*		*		*							
30-32	38-40	4				*	*	*		*	*		*		*	*	*				
40-42	48-50	4				*	*		*	*	*		*		*	*	*	*			
50-52	58-60	4				*	*		*		*		*		*	*	*	*	*		*
60-63	72-75	6												*	*		*	*	*	*	*
80	92	6												*	*		*	*	*	*	*

FORMA DE PEDIDO: Ø Interior x L
ORDER FORM: Inside Ø x L



JAUOLA DE BOLAS CON ALARGO BALL CAGES WITH ADDITION



MATERIAL: Aluminio.

MATERIAL: Aluminium.

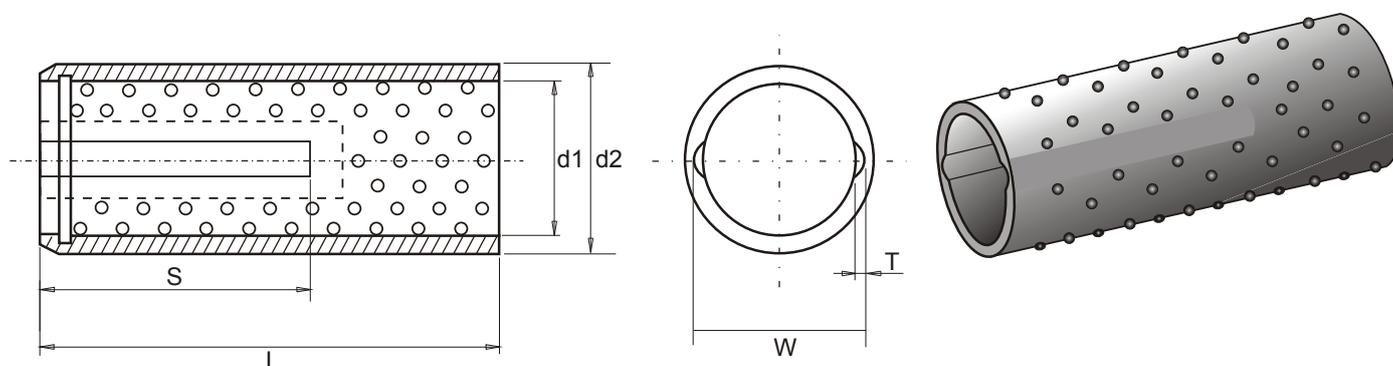
\varnothing INT. INS. \varnothing	\varnothing EXT. \varnothing OUT.	b	A	B	L
15-16	21-22	3	60	18	78
18-19	24-25	3	72	22	94
24-25	30-31	3	78	25	103
30-32	38-40	4	90	32	122
40-42	48-50	4	100	40	140
50-52	58-60	4	100	40	140

FORMA DE PEDIDO: \varnothing Interior x L

ORDER FORM: Inside \varnothing x L



JAUJA DE BOLAS CON RANURA BALL CAGES WITH GROOVE



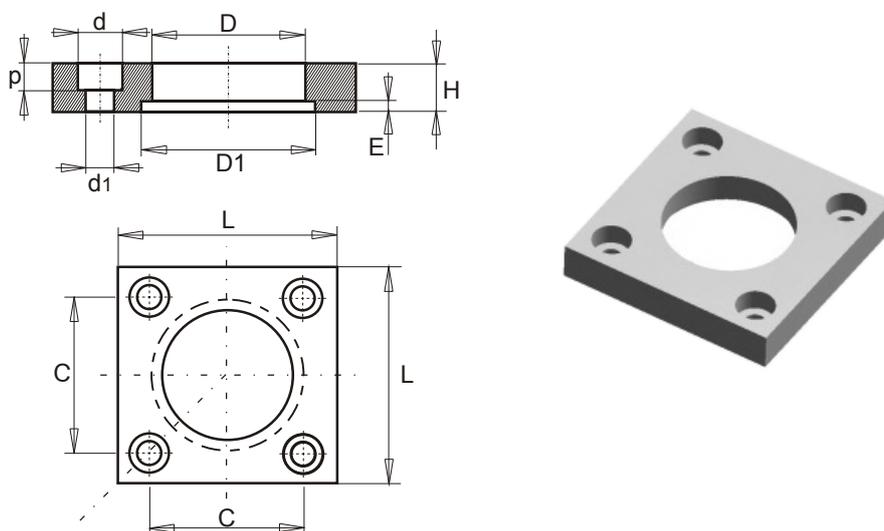
MATERIAL: Aluminio o Bronce. **BOLAS:** Acero templado
MATERIAL: Aluminium or Bronze. **BALLS:** Steel hardened

Ø Colum. Ø Pin.	d1	d2	W	T	L																			
					55	70	85	90	100	105	115	125	135	140	145	150	160	165	170	180	185	190	205	250
					S																			
					31	40	48	48	55	55	65	75	75	76	76	86	86	86	96	96	107	107	121	150
24-25	25,7	32	29,7	2	*	*	*	*	*															
30-32	32,7	39	36,7	2		*	*	*	*	*	*	*												
40-42	40,7	47	44,7	2		*	*	*	*	*	*	*	*		*									
50	50,7	57	54,7	2						*	*	*	*		*	*	*		*	*		*		
63	63,8	74	68,7	2,5											*	*	*		*	*		*	*	
80	80,8	91	85,8	2,5											*	*	*		*	*		*	*	*

FORMA DE PEDIDO: Ø Columna x L x S
ORDER FORM: Ø Pin x L x S



PLACA DE RETENCION PARA COLUMNA EBR-H020 RETAINER PLATE FOR GUIDE PIN EBR-H020



MATERIAL:

Acero F-114. / Steel F-114.

TRATAMIENTO:

Pavonado.

TREATMENT:

Blued

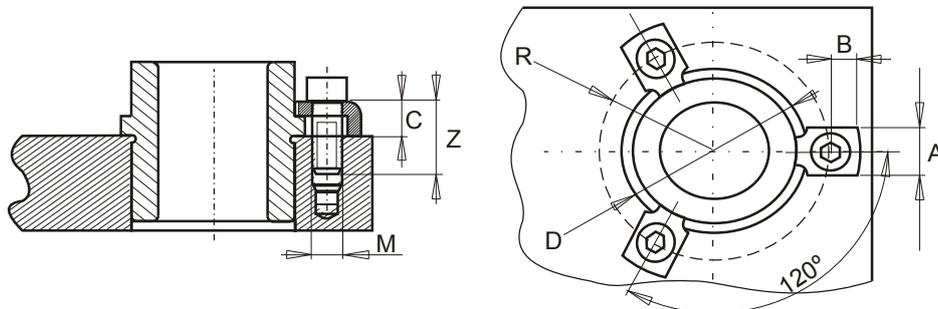
D ϕ Columna D ϕ PIN	D1	E	H	L	C	d	d1	p
24	27	2,7	10	40	28	12	6,6	7
25	28	2,7	10	40	28	12	6,6	7
30	36	4,2	10	56	36	12	6,6	7
32	37	4,2	10	56	36	12	6,6	7
40	45	4,2	12	70	50	12	6,6	7
42	47	4,2	12	70	50	12	6,6	7
50	55	4,2	14	80	55	16	9	9
52	57	4,2	14	80	55	16	9	9
60	68	6,2	18	100	70	18	11	11
63	70	6,2	18	100	70	18	11	11
80	87	6,2	20	110	80	22	14	13
100	107	6,2	20	140	100	22	14	13

FORMA DE PEDIDO: EBR-H020 / ϕ . COL.

ORDER FORM: EBR-H020 / PIN ϕ .



BRIDAS DE FIJACION H001 / H002 FIXING CLAMPS H001 / H002



D	R	Tolerancias para montaje H6 Assembly tolerances H6	
34	20,5	28	$+0,013$ -0
38	22,5	32	$+0,016$ -0
48	29	40	$+0,016$ -0
58	34	48	$+0,016$ -0
72	41	58	$+0,019$ -0
82	46	68	$+0,019$ -0
95	52,5	85	$+0,019$ -0

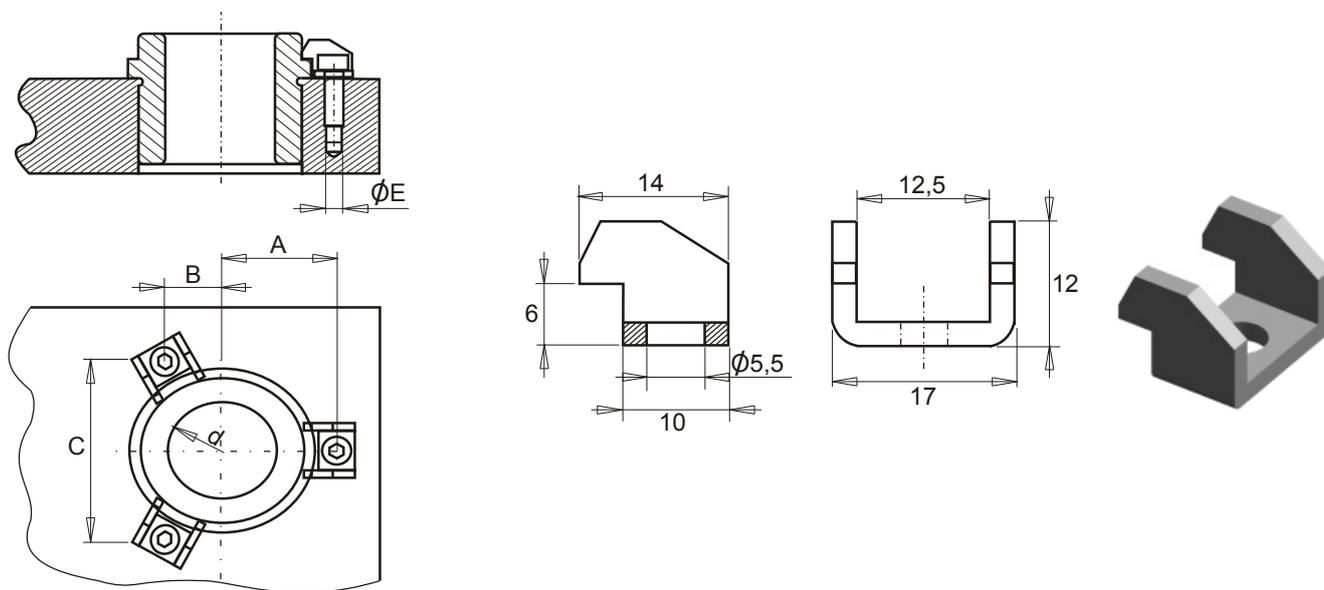
Brida Clamps	A	B	C	M	Z
H001	12	6	7	6x1	20
H002	14,5	7	8	8x1,25	20

D	R	Tolerancias para montaje H6 Assembly tolerances H6	
34	20,5	28	$+0,013$ -0
40	23,5	32	$+0,016$ -0
45	27,5	40	$+0,016$ -0
55	32,5	48	$+0,016$ -0
70	40	58	$+0,019$ -0
80	45	68	$+0,019$ -0
95	52,5	85	$+0,019$ -0

D	R	Tolerancias para montaje H6 Assembly tolerances H6	
25	16	18/19	$+0$ $-0,013$
32	19,5	24/25	$+0$ $-0,013$
40	25	30/32	$+0$ $-0,016$
50	30	40/42	$+0$ $-0,016$
62	36	50/52	$+0$ $-0,019$
73	41,5	60/63	$+0$ $-0,019$



BRIDAS DE FIJACION H003 FIXING CLAMPS H003



MATERIAL: Acero F-114. / Steel F-114.

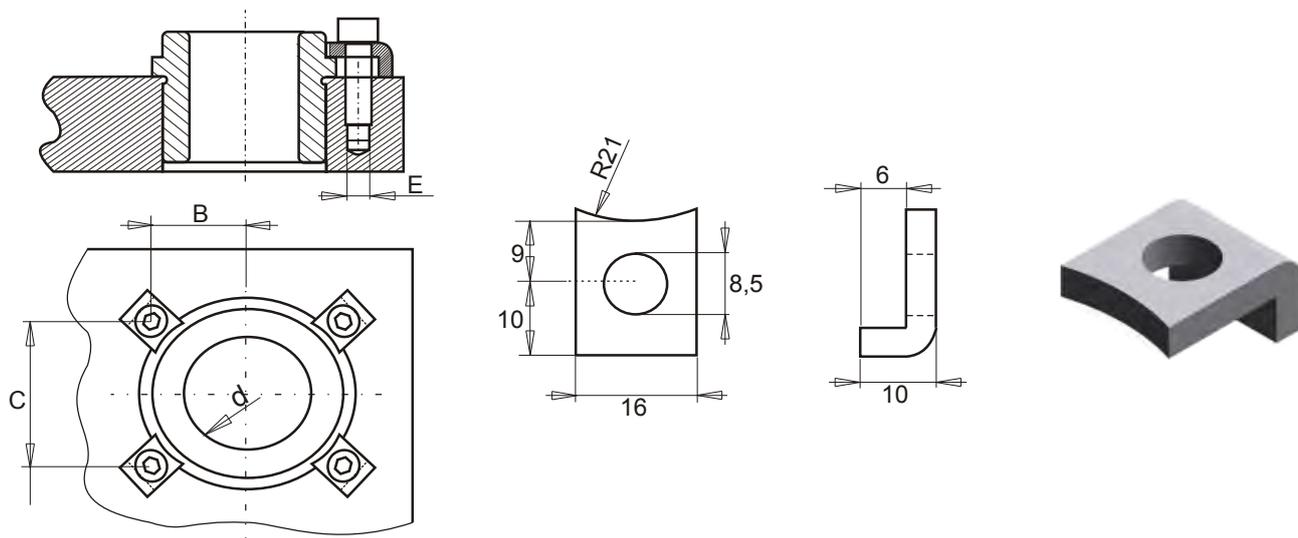
D Ø Columna Pin Ø D	A	B	C	E
De 18 - 19	22,5	11,25	38,96	M5
De 24 - 25	27,5	13,75	47,62	M5
De 30 - 32	31,5	15,75	54,54	M5

FORMA DE PEDIDO: H003

ORDER FORM: H003



BRIDAS DE FIJACION H004 FIXING CLAMPS H004



MATERIAL: Acero F-114. / Steel F-114.

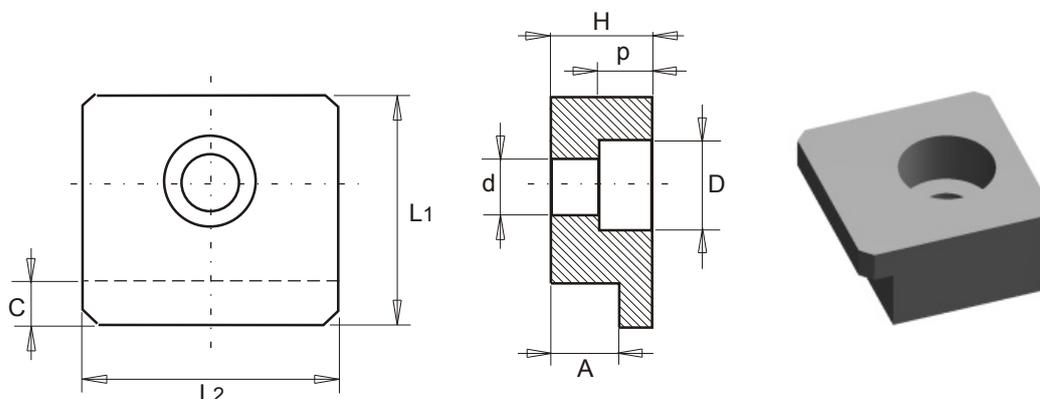
D \varnothing Columna Pin \varnothing D	A	B	C	E
40 - 42	--	26,87	53,74	M-8
50 - 52	--	31,11	62,22	M-8

FORMA DE PEDIDO: H004

ORDER FORM: H004



BRIDAS DE FIJACION PARA CASQUILLOS H005 - H006 FIXING CLAMPS FOR BUSHES H005 - H006



MATERIAL:
TRATAMIENTO:
TREATMENT:

Acero F-114. / Steel F-114.
Pavonado.
Blued

BRIDA DE FIJACION H005 FIXING CLAMPS H005

D \varnothing Casquillo Bush \varnothing D	L1	L2	D	d	p	H	A	C
25	16	16	10	5,5	6	10	5	4
32	16	16	10	5,5	6	10	6	4
40	25	25	12	6,6	6	12	8	4
50	30	30	16	9	9	16	10	4
63	35	35	18	11	11	20	12	4
80	45	45	22	14	13	25	16	4
100	50	50	22	14	13	32	20	4

FORMA DE PEDIDO: H005 / \varnothing . D. CASQ.
ORDER FORM: H005 / BUSH \varnothing . D

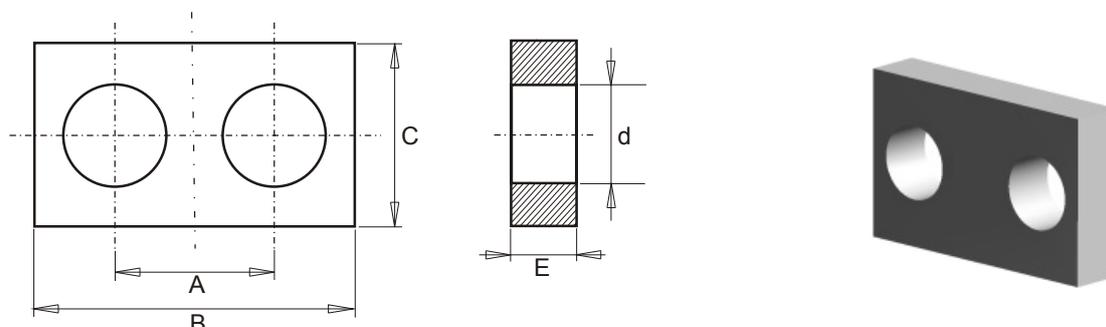
BRIDA DE FIJACION H006 FIXING CLAMPS H006

D \varnothing Casquillo Bush \varnothing D	L1	L2	D	d	p	H	A	C
25 - 50	20	20	11	7	7	10	6,3	5
63 - 100	30	32	17,5	11,5	11,5	16	10	10

FORMA DE PEDIDO: H006 / \varnothing . D. CASQ.
ORDER FORM: H006 / BUSH \varnothing . D



BRIDAS DE FIJACION PARA COLUMNA H107 - H007 FIXING CLAMPS FOR GUIDE PINS H107 - H007



MATERIAL:

Acero F-114. / Steel F-114.

TRATAMIENTO:

Pavonado.

TREATMENT:

Blued

D ϕ Columna Pin ϕ D	B	C	E	A	d
De 25 a 32	32	20	5	16	9
De 40 a 50	40	25	8	24	11
De 63 a 80	50	32	10	30	14
100	63	40	10	40	14

FORMA DE PEDIDO: H007 / ϕ . D. COL.

ORDER FORM: H007 / PIN ϕ . D



DATOS TÉCNICOS BRONCE GRAFITO TECHNICAL DATA OILLESS PARTS

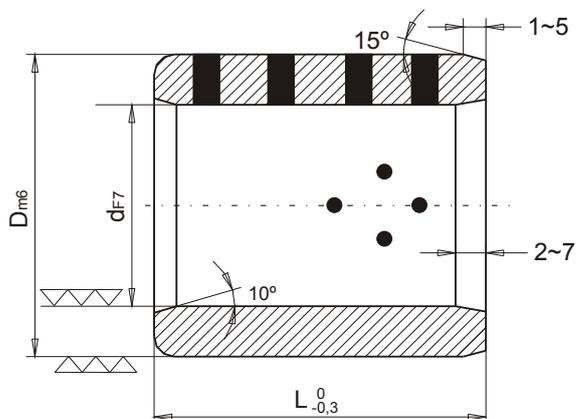
MATERIAL: 650# Bronce aluminio con lubricante sólido (Grafito). (No requiere mantenimiento).

MATERIAL: 650# is made of strong cast bronze bored metal with special solid lubricants embeded. (Maintenance - free).

Carga máxima <i>Max. load</i>	Estática <i>Static</i>	150N/mm ²	Resistencia a la tracción <i>Tensile strength</i>	750N/mm ²
	Dinámica <i>Dynamic</i>	90N/mm ²	Dureza <i>Hardness</i>	HB≥210
Velocidad max. <i>Max. speed</i>	Seco <i>Dry</i>	<0.30m/s	Elongación <i>Elongation</i>	12%
	Aceite <i>Oil</i>	<1.00m/s	Coefficiente de expansión lineal <i>Coefficient of linear expansion</i>	1.9*10 ⁻⁵ /°C
PV Max.		3.3N/mm ² *m/s	Densidad <i>Density</i>	8.0
Temperatura límite <i>Temp. limit</i>		-100°C~+300°C	Coefficiente de fricción <i>Friction coefficient</i>	0.03~0.20



CASQUILLO GUÍA BRONCE GRAFITO "EGL" "EGL" SELF LUBRICATING BUSHES

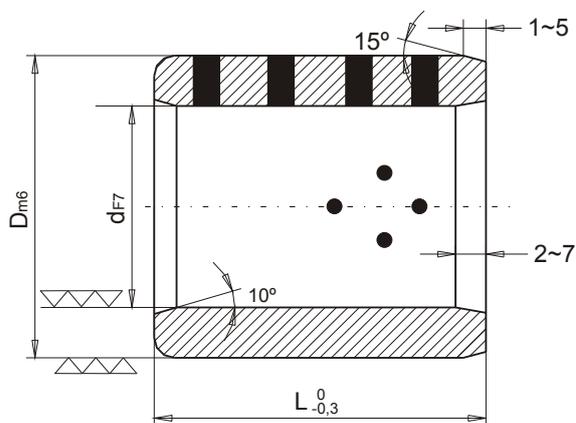


d (F7)	D (m6)	L ⁺⁰ / _{-0.3}
8	12	8
8	12	10
8	12	12
8	12	15
10	14	8
10	14	10
10	14	12
10	14	15
10	14	20
12	18	10
12	18	12
12	18	16
12	18	20
12	18	25
12	18	30
13	19	10
13	19	16
13	19	20
16	22	12
16	22	16
16	22	20
16	22	25
16	22	30
16	22	35
16	22	40

FORMA DE PEDIDO: d x D x L
ORDER FORM: d x D x L



CASQUILLO GUÍA BRONCE GRAFITO “EGL” (Continuación) “EGL” SELF LUBRICATING BUSHES (Continued)

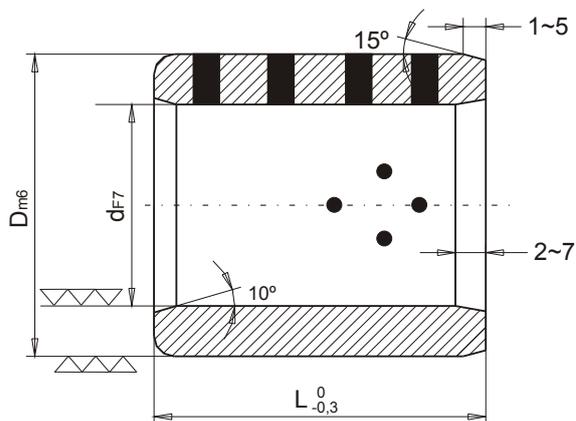


FORMA DE PEDIDO: d x D x L
ORDER FORM: d x D x L

d (F7)	D (m6)	L ⁰ / _{-0.3}
18	24	15
18	24	16
18	24	20
18	24	25
18	24	30
18	24	35
18	24	40
20	28-30	16
20	28-30	20
20	28-30	25
20	28-30	30
20	28-30	35
20	28-30	40
25	33-35	16
25	33-35	20
25	33-35	25
25	33-35	30
25	33-35	35
25	33-35	40
25	33-35	50
30	38-40	20
30	38-40	25
30	38-40	30
30	38-40	35
30	38-40	40
30	38-40	50
30	38-40	60
31.5	40	40
35	44-45	25
35	44-45	30
35	44-45	35
35	44-45	40
35	44-45	50
35	44-45	60
40	50-55	25
40	50-55	30
40	50-55	35
40	50-55	40
40	50-55	50
40	50-55	60
45	55-56-60	30
45	55-56-60	35
45	55-56-60	40
45	55-56-60	50
45	55-56-60	60
50	60-62-65	30
50	60-62-65	35
50	60-62-65	40
50	60-62-65	50
50	60-62-65	60
50	60-62-65	70



CASQUILLO GUÍA BRONCE GRAFITO “EGL” (Continuación) “EGL” SELF LUBRICATING BUSHES (Continued)

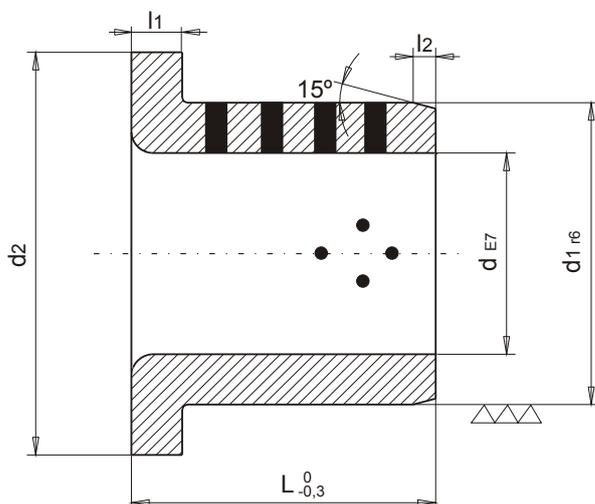


FORMA DE PEDIDO: d x D x L
ORDER FORM: d x D x L

d (F7)	D (m6)	L ⁺⁰ / _{-0.3}
55	70	40
55	70	50
55	70	60
55	70	70
60	74-75	30
60	74-75	35
60	74-75	40
60	74-75	50
60	74-75	60
60	74-75	70
60	74-75	80
63	75	60
63	75	70
65	80	60
65	80	70
70	85	35
70	85	40
70	85	50
70	85-90	60
70	85-90	70
70	90	80
80	96-100	40
80	96-100	50
80	96-100	60
80	96-100	70
80	96-100	80
80	96-100	100
80	96-100	120
90	110	60
90	110	70
90	110	80
90	110	100
90	110	120
100	120	60
100	120	70
100	120	80
100	120	100
100	120	120
110	130	80
110	130	100
110	130	120
120	140	80
120	140	100
120	140	120
130	150	100
130	150	130



CASQUILLO GUÍA BRONCE GRAFITO "EGV" "EGV" SELF LUBRICATING BUSHES



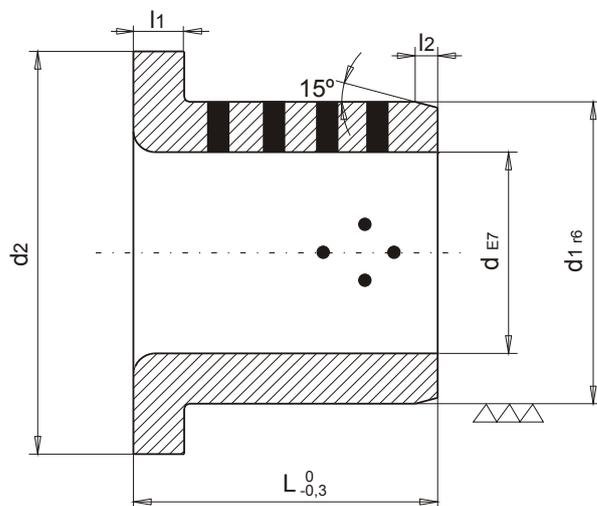
d (E7)	L ⁺⁰ _{-0.3}	d1 (r6)	d2	l1	l2
10	15	14	22	2	1
10	20	14	22	2	1
12	15	18	25	3	2
12	20	18	25	3	2
13	15	19	26	3	2
13	20	19	26	3	2
14	15	20	27	3	2
14	20	20	27	3	2
15	15	21	28	3	2
15	20	21	28	3	2
15	25	21	28	3	2
16	15	22	29	3	2
16	20	22	29	3	2
16	25	22	29	3	2
20	15	30	40	5	2
20	20	30	40	5	2
20	30	30	40	5	2
20	40	30	40	5	2
25	20	35	45	5	2
25	25	35	45	5	2
25	30	35	45	5	2
25	40	35	45	5	2
30	30	40	50	5	3
30	35	40	50	5	3
30	40	40	50	5	3
30	50	40	50	5	3
31.5	35	40	50	5	3

FORMA DE PEDIDO: d x L

ORDER FORM: d x L



CASQUILLO GUÍA BRONCE GRAFITO "EGV" (Continuación) "EGV" SELF LUBRICATING BUSHES (Continued)



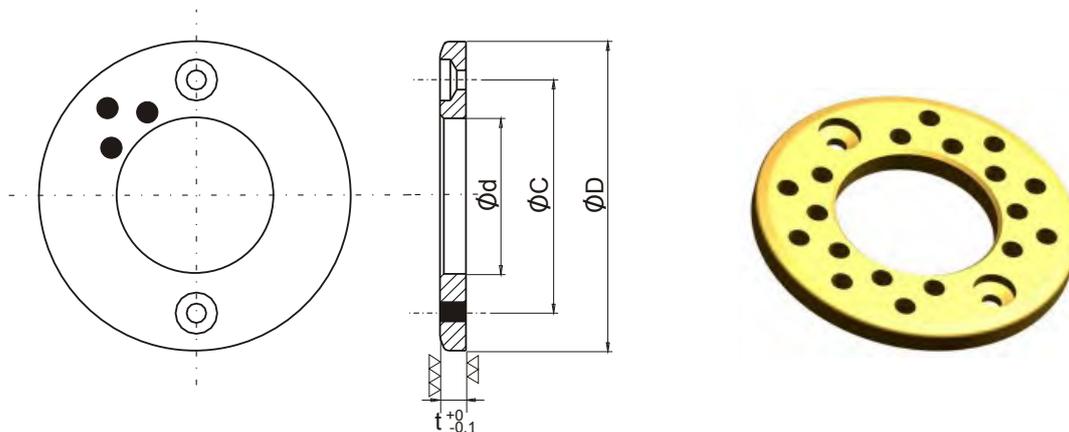
d (E7)	L ⁺⁰ _{-0.3}	d1 (r6)	d2	l1	l2
35	30	45	60	5	3
35	40	45	60	5	3
35	50	45	60	5	3
40	30	50	65	5	3
40	40	50	65	5	3
40	50	50	65	5	3
45	30	55	70	5	3
45	40	55	70	5	3
45	60	55	70	5	3
50	30	60	75	5	3
50	40	60	75	5	3
50	60	60	75	5	3
55	40	65	80	5	3
55	60	65	80	5	3
60	40	75	90	7.5	4
60	50	75	90	7.5	4
60	80	75	90	7.5	4
63	67.5	75	85	7.5	4
70	50	85	105	7.5	4
70	80	85	105	7.5	4
75	60	90	110	7.5	4
80	60	100	120	10	5
80	80	100	120	10	5
80	100	100	120	10	5
90	60	110	130	10	5
90	80	110	130	10	5
100	80	120	150	10	5
100	100	120	150	10	5
120	80	140	170	10	5
120	100	140	170	10	5

FORMA DE PEDIDO: d x L

ORDER FORM: d x L



ARANDELA BRONCE CON GRAFITO "BGA" "BGA" OILLESS THRUST WASHER

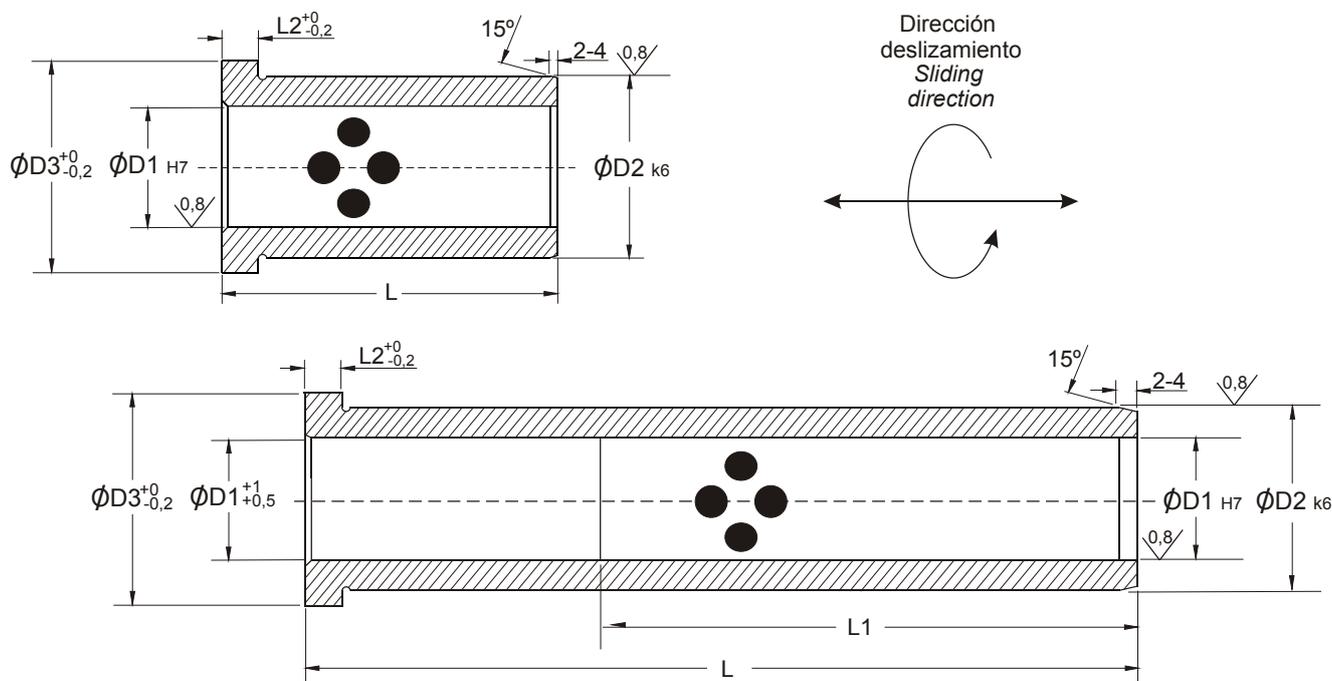


AGUJEROS BOLD					
d	D	C	METRICO METRIC	Nº	t ⁺⁰ / _{-0,1}
10.2	30				3
12.2	40				3
13.2	40	28	M 3	2	3
16.2	50	35	M 3	2	3
18.2	50	35	M 3	2	3
20.2	50	35	M 5	2	5
25.2	55	40	M 5	2	5
30.2	60	45	M 5	2	5
35.2	70	50	M 5	2	5
40.2	80	60	M 6	2	7
45.3	90	67.5	M 6	2	7
50.2	100	75	M 6	4	8
55.3	110	85	M 6	4	8
60.3	120	90	M 8	4	8
70.3	130	100	M 8	4	10
80.3	150	120	M 8	4	10
90.5	170	140	M 10	4	10
100.5	190	160	M 10	4	10
120.5	200	175	M 10	4	10

FORMA DE PEDIDO : d x D x t
ORDER FORM : d x D x t



CASQUILLO CV BRONCE GRAFITO "BGCV" CV SELF LUBRICATING BUSHES "BGCV"

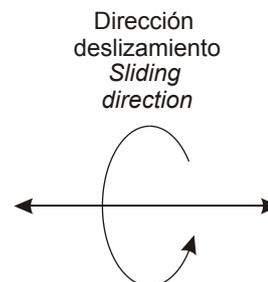
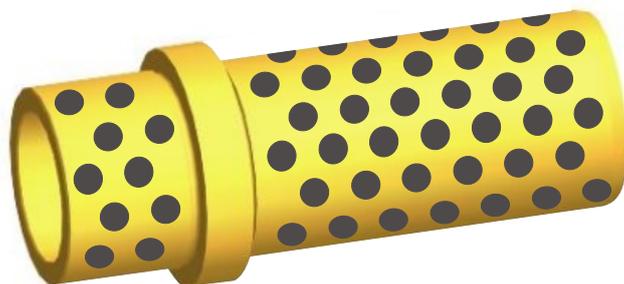
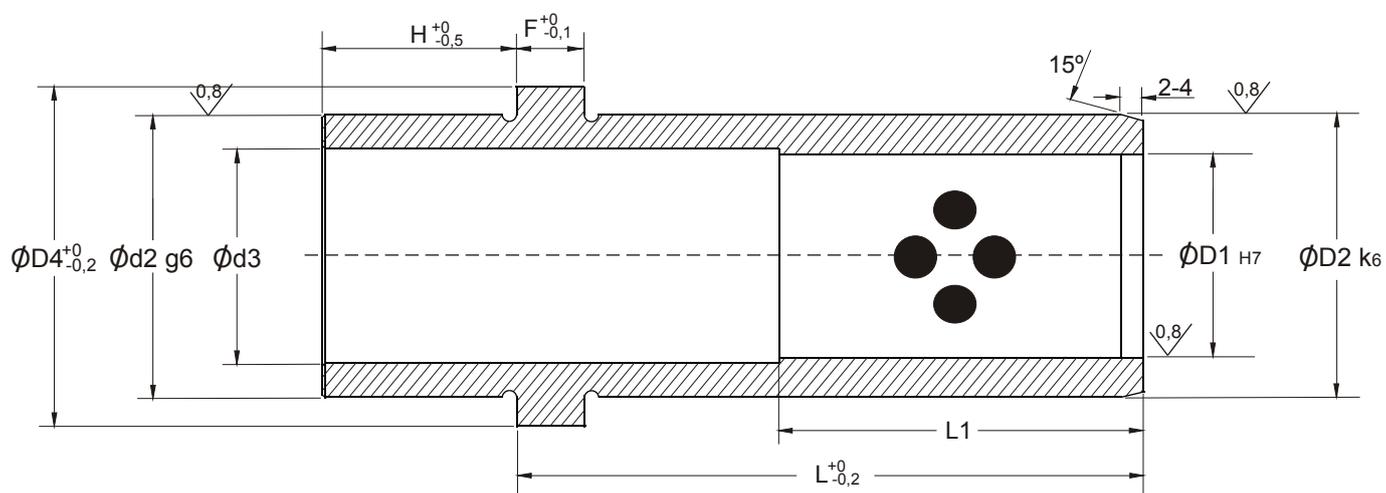


D1	D2	D3	L2	L										
				17	21	26	35	45	55	65	75	95	135	
10	14	17	4	*		*								
12	16	20	4	*		*	*	L1-30	L1-30					
14	20	24	4		*	*	*	L1-30		L1-30				
16	20	24	4		*	*	*	*	*	L1-45	L1-45	L1-45		
18	25	30	6		*	*	*	*	*	L1-45	L1-45	L1-65		
20	30	35	6				*		*	L1-45	L1-45			
22	30	35	6			*	*	*	*	L1-55	L1-55	L1-65		
25	35	40	8				*	*	*	L1-65	L1-55			
30	40	45	8			*	*	*	*	L1-65	L1-65	L1-65	L1-65	
40	50	54	10						*			L1-65		

FORMA DE PEDIDO: D1 x L
ORDER FORM: D1 x L



CASQUILLO CV2 BRONCE GRAFITO "BGCV2" CV2 SELF LUBRICATING BUSHES "BGCV2"



D1	D2	D3	D4	F	H	L							
						17	21	26	35	45	55	74	94
12	16	16.5	20	4	8	*		*	L1-27	L1-27	L1-27		
16	20	19	24	4	12	*	*	*	*	L1-30	L1-40	L1-56	
18	25	23	30	6	17		*	*	*		L1-38	L1-44	L1-57
22	30	31	35	6	17		*	*	*		L1-38	L1-44	L1-57
30	40		45	8	21				*		L1-55	L1-43	L1-56

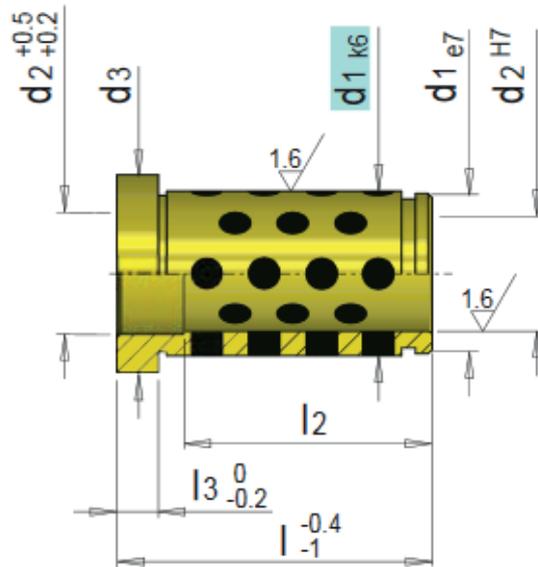
FORMA DE PEDIDO: D1 x L

ORDER FORM: D1 x L



CASQUILLOS BRONCE-GRAFITO BGCVS con ranura - Norma Europea BRONZE-GRAPHITE BUSHES BGCVS with groove - European standard

Compatible: E1115 / Z1100W



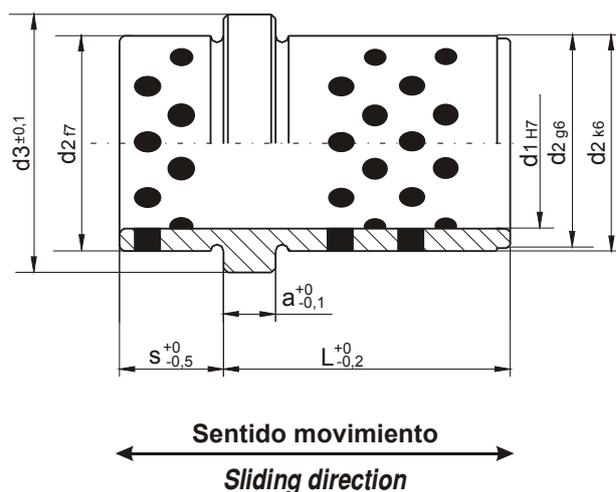
d2	d1	d3	l3	l												
				12	17	22	27	36	46	56	66	76	86	96	116	136
9	14	16	3	*	*	*	*	*	*	*						
10	14	16	3	*	*	*	*	*	*	*						
12	18	23	6		*	*	*	*	*	*						
14	20	25	6		*	*	*	*	*	*						
15	20	25	6		*	*	*	*	*	*						
16	22	27	6		*	*	*	*	*	*						
18	26	31	6		*	*	*	*	*	*	*	*				
20	26	31	6		*	*	*	*	*	*	*	*				
22	30	35	6			*	*	*	*	*	*	*	*	*		
24	30	35	6			*	*	*	*	*	*	*	*	*		
30	42	47	6				*	*	*	*	*	*	*	*	*	
32	42	47	6				*	*	*	*	*	*	*	*	*	
40	54	60	10						*	*	*	*	*	*	*	*
42	54	60	10						*	*	*	*	*	*	*	*

FORMA DE PEDIDO: d2 x l

ORDER FORM: d2 x l



CASQUILLO GUIA BRONCE GRAFITO "CV2X" "CV2X" SELF LUBRICATING BUSHES



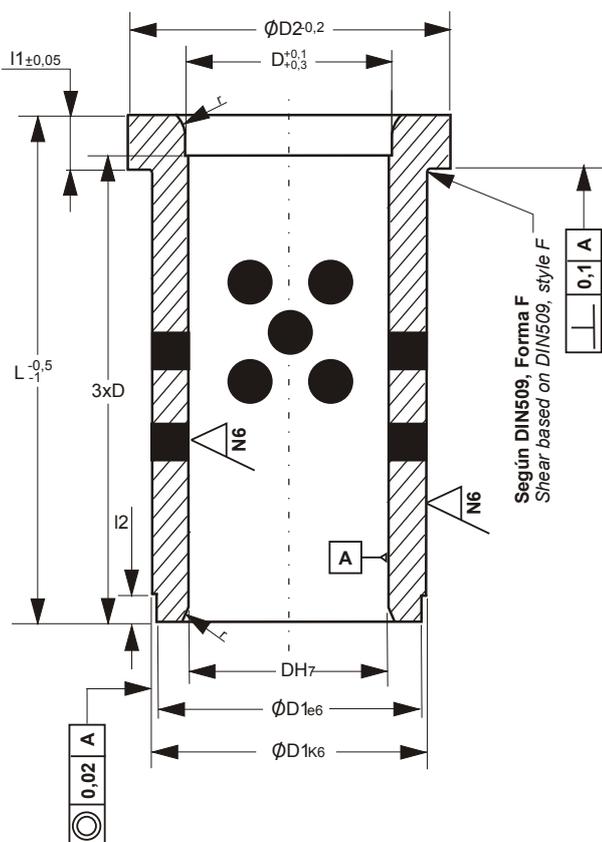
d1	L	d2	d3	a	S
12	22	18	22	6	9
16	22	22	26	6	12
16	26	22	26	6	12
20	26	28	32	6	15
20	35	28	32	6	15
25	26	32	36	6	18
25	35	32	36	6	18
25	45	32	36	6	18
32	35	40	45	8	20
32	45	40	45	8	20
40	45	50	56	8	25
40	63	50	56	8	25

FORMA DE PEDIDO: d1 x L

ORDER FORM: d1 x L



CASQUILLOS GUIA BRONCE GRAFITO "EBV" "EBV" SELF LUBRICATING BUSHES



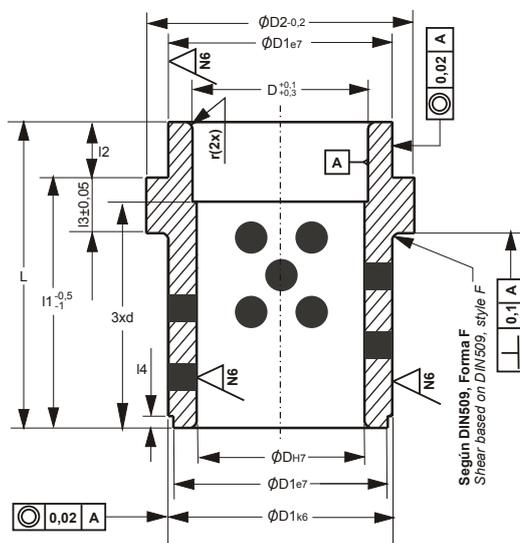
ØD	9	10	12	14	15	16	18	20	22	24	30	32	40	42	50	60
ØD1	14	14	18	20	20	22	26	26	30	30	42	42	54	54	66	80
ØD2	16	16	23	25	25	27	31	31	35	35	47	47	60	60	72	86
l1	3	3	6	6	6	6	6	6	6	6	6	6	10	10	10	20
l2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4
r	1	1	1.5	1.5	1.5	1.5	1.5	1.5	2	2	2	2	3	3	3	3

L	LONGITUD / LENGTH															
12	*	*														
17	*	*	*	*	*	*	*	*	*	*						
22	*	*	*	*	*	*	*	*	*	*	*	*				
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
46				*	*	*	*	*	*	*	*	*	*	*	*	
56				*	*	*	*	*	*	*	*	*	*	*	*	*
66							*	*	*	*	*	*	*	*	*	*
76									*	*	*	*	*	*	*	*
86									*	*	*	*	*	*	*	*
96											*	*	*	*	*	*
116											*	*	*	*	*	*
136													*	*	*	*
156													*	*	*	*
196															*	*

FORMA DE PEDIDO: D x L ORDER FORM: D x L



CASQUILLO GUIA BRONCE GRAFITO "Eh1" "EH1" SELF LUBRICATING BUSHES



ØD	9	10	14	15	18	18	20	20	22	22	24	24	30	30	32	32	40	42
ØD1	14	14	20	20	26	26	26	26	30	30	30	30	42	42	42	42	54	54
ØD2	18	18	25	25	31	31	31	31	35	35	35	35	47	47	47	47	60	60
l2	3	3	9	9	9	17	9	17	9	22	9	2	9	27	9	27	12	12
l3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10
l4	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4
r	1	1	1,5	1,5	1,5	1,5	1,5	1,5	2	2	2	2	2	2	2	2	3	3

L	l1	LONGITUD / LENGTH																	
15	12	*	*																
20	17	*	*																
25	22	*	*																
30	27	*	*																
39	36	*	*																
26	17			*	*	*		*		*		*		*					
31	22			*	*	*		*		*		*		*					
36	27			*	*	*		*		*		*		*		*			
39	22						*		*							*			
45	36			*	*	*		*		*		*		*		*			
49	27								*		*								
55	46			*	*	*		*		*		*		*		*			
63	36													*		*			
65	56			*	*	*		*		*		*		*		*			
68	56																	*	*
75	66					*		*		*		*		*		*			
78	66																	*	*
85	76								*		*		*		*				
88	76																	*	*
95	86								*		*		*		*				
98	86																	*	*
105	96												*		*				
108	96																	*	*
125	116												*		*				
128	116																	*	*
148	136																	*	*
168	156																	*	*

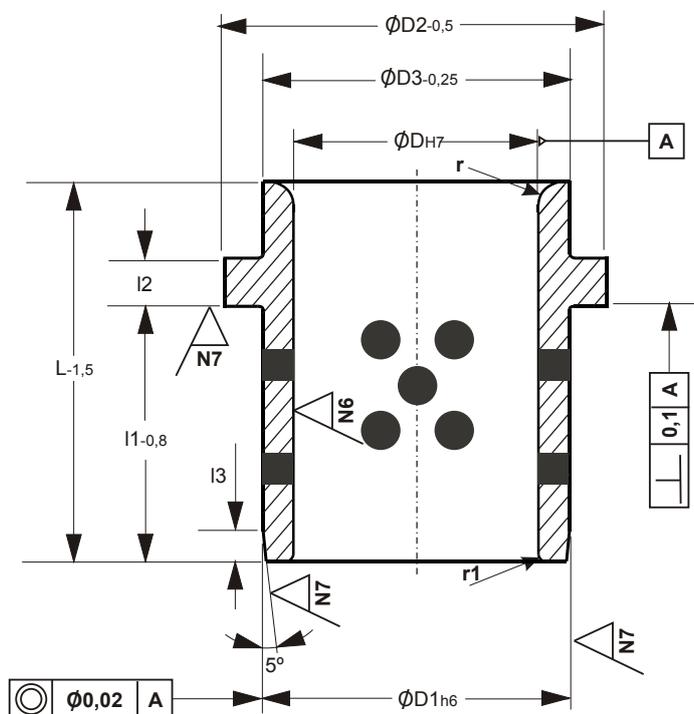
FORMA DE PEDIDO: D x L ORDER FORM: D x L



CASQUILLO GUIA BRONCE GRAFITO "EGO" DIN9834 - ISO9488 "EGO" SELF LUBRICATING BUSHES DIN9834 - ISO9488



SENTIDO MOVIMIENTO
SLIDING DIRECTION

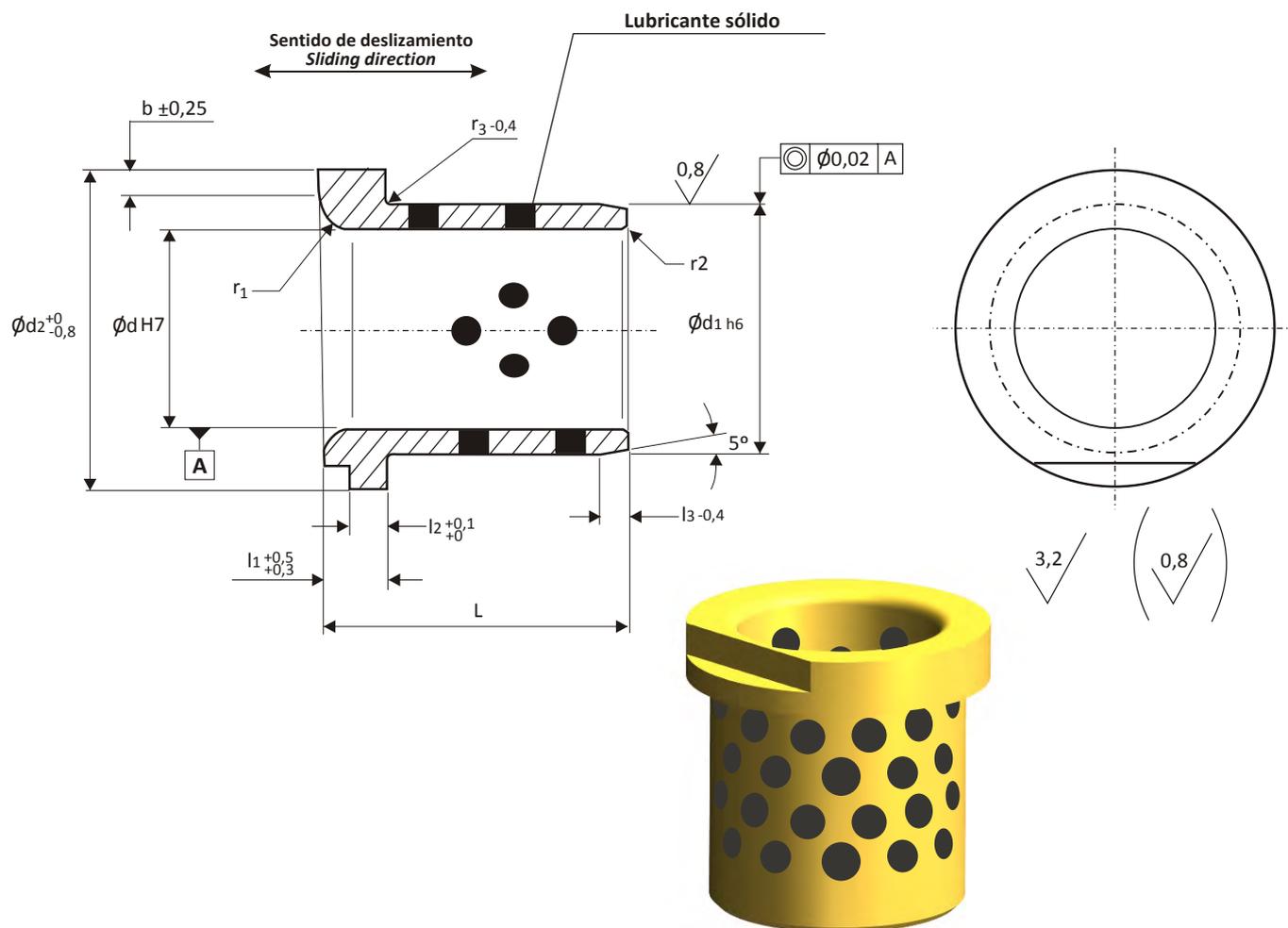


CODIGO CODE	D	L	D1	D2	D3	l1	l2	l3	r		
EGO01	25	40	32	40	32	32	6,3	4	3		
EGO02		32				22					
EGO03		40				30					
EGO04	32	50	40	50	40	5					
EGO05	40	63	50	63	50	50				6,3	5
EGO06	50	71	63	71	63	56				6,3	5
EGO07	63	80	80	90	80	63	10	8	6		
EGO08	80	100	100	112	100	80		10	8		
EGO09	100	125	125	140	125	100		12,5	10		
EGO10						106					
EGO11	125	160	160	180	160	132		16	12		
EGO12	160	200	200	220	200	170				16	18

FORMA DE PEDIDO: **Codigo** ORDER FORM: **Code**



CASQUILLO BRONCE GRAFITO "EGVO" "EGVO" SELF LUBRICATING BUSHES



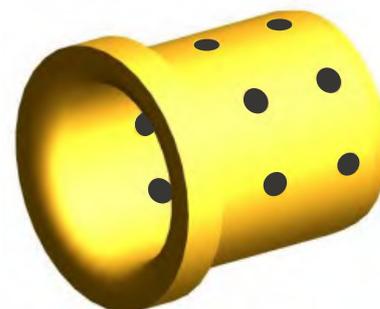
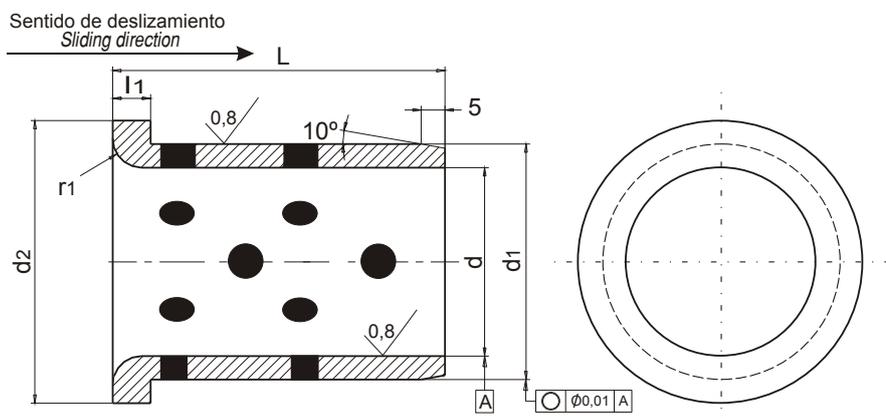
IMPORTANTE: Para ϕ 80 y superior, los casquillos llevarán dos planos, uno en cada lado.
IMPORTANT: For ϕ 80 and bigger, head will have two flats instead of one.

$\phi d H7$	L	$\phi d1 h6$	$\phi d2^{+0}_{-0,8}$	$l1^{+0,5}_{+0,3}$	$l2^{+0,1}_{-0}$	$l3 +0,4$	$b \pm 0,25$	r1	r2	r3
25	32	32	40	10	5	4	3,5	4	1	1
32	50	40	50	10	5	6	4	5	1	1
40	63	50	63	13	8	6	5	6	1	1
50	72	63	75	14	8	8	6	6	1,6	1,6
63	80	80	95	17	10	8	8	8	2	2
80	100	100	120	20	10	8	10	8	2,5	2,5
100	125	125	150	25	16	8	13	10	3,2	3,2
125	160	160	190	30	16	10	13	13	4	4
140	180	180	210	30	16	10	16	16	5	6
160	200	200	240	30	16	12	18	18	6	8

FORMA DE PEDIDO: d ORDER FORM: d



CASQUILLO GUIA AUTOLUBRICADO “EGVT” “EGVT” SELF LUBRICATING BUSHES

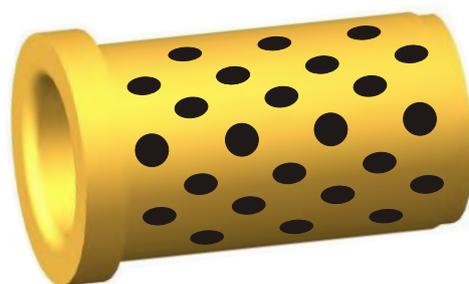
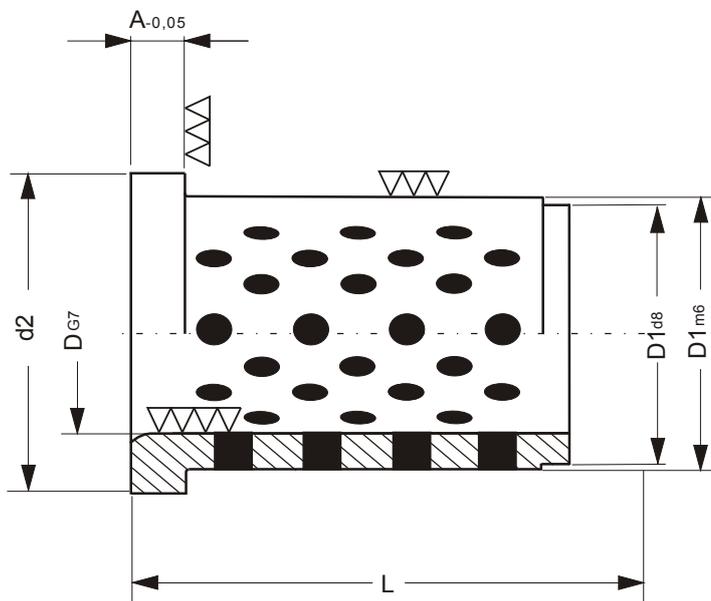


d (H7)	L	d1 (h6)	d2	l1	r1
20	35	28	36	8	2
32	55	40	50	8	6
40	70	50	60	8	6
42	70	50	60	8	6
50	75	63	75	12	8
52	75	63	75	12	8
63	80	80	90	12	8
80	100	100	110	12	8
100	125	125	135	12	8

FORMA DE PEDIDO: d x L
ORDER FORM: d x L



CASQUILLO "H231" BRONCE GRAFITO "H231" SELF LUBRICATING BUSHES

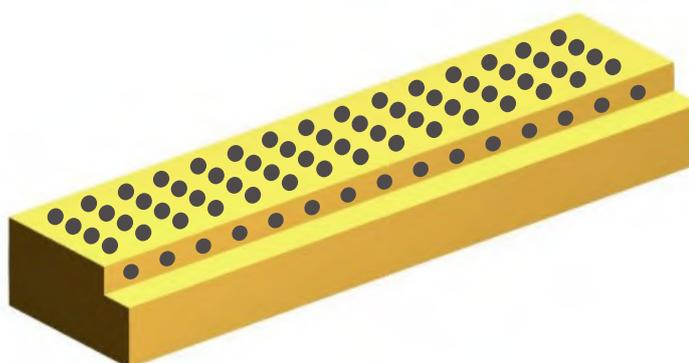
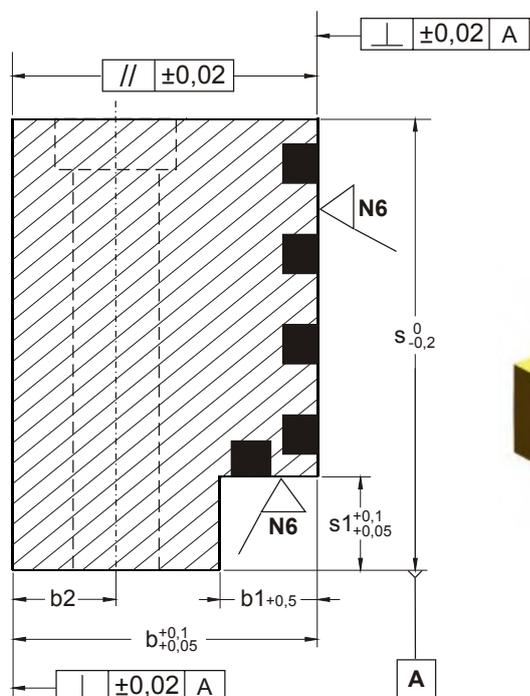


D	d1	d2	A	L
20	28	32	4	32
25	35	40	5	40
32	44	50	6	50
40	52	60	8	63
50	63	71	10	80
63	80	90	12	100
80	100	112	16	125
100	125	140	20	160

FORMA DE PEDIDO: H231 / D x L ORDER FORM: H231 / D x L



ESCUADRA GRAFITO "ESBG" "ESBG" L-SHAPE OILLESS PLATE

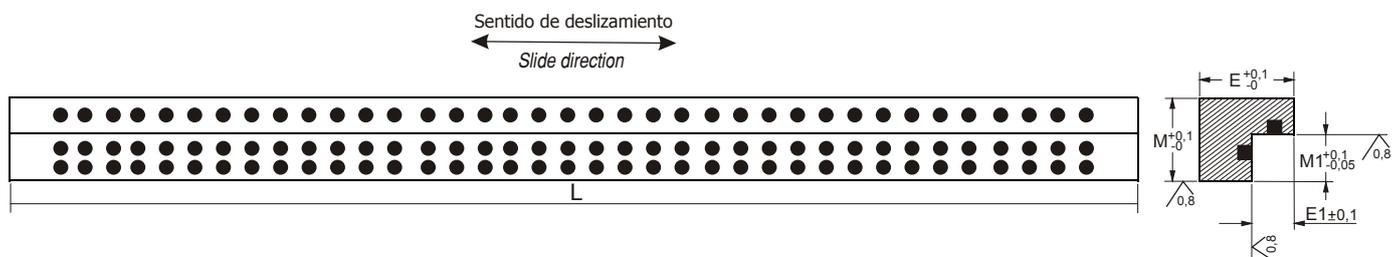


CODIGO/CODE	b x s	l	b1	b2	s1
ESBG01	15 x 12	205	5	6	5
ESBG02	20 x 17	605	5	7.5	7
ESBG03	20 x 22	605	5	7.5	7
ESBG04	28 x 27	605	8	11	10
ESBG05	28 x 36	605	8	11	10
ESBG06	28 x 46	605	8	11	10
ESBG07	40 x 66	605	12	14	22
ESBG08	40 x 86	605	12	14	26

FORMA DE PEDIDO : CODIGO
ORDER FORM : CODE



ESCUADRA BRONCE GRAFITO "ESL" "ESL" L-SHAPE OILLESS PLATE

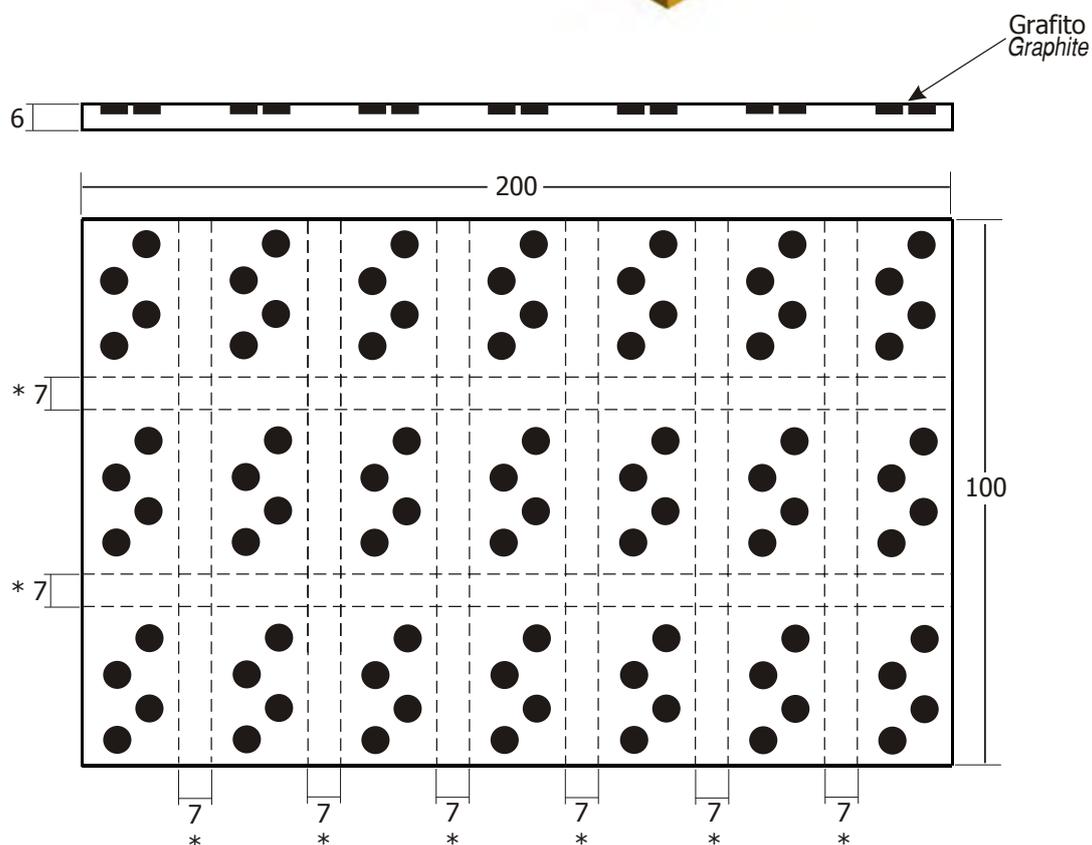
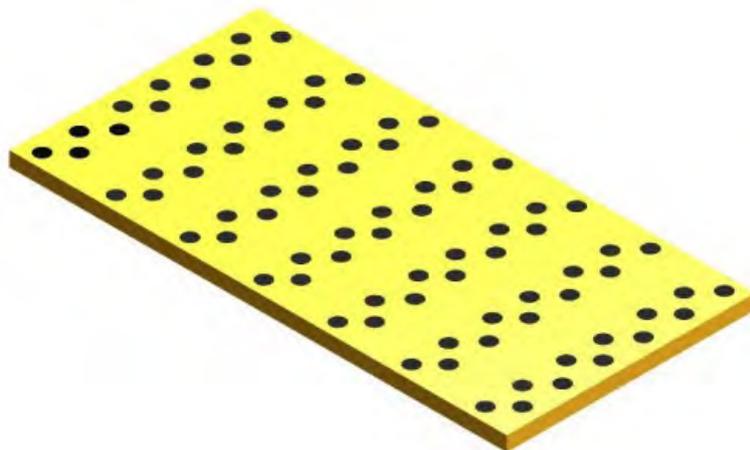


M	E	M1	E1	L	Código Code
12	20	6	5	305	ESL 1
15	25	8	7	305	ESL 2
20	30	12	9	305	ESL 3
30	32	15	10	605	ESL 4
30	32	15	10	1005	ESL 5
45	50	25	22	605	ESL 6
45	50	25	22	1005	ESL 7
35	35	24	12	605	ESL 8
35	35	24	12	1005	ESL 9
50	50	34	16	605	ESL 10
50	50	34	16	1005	ESL 11

FORMA DE PEDIDO : CODIGO
ORDER FORM : CODE



PLACA BRONCE CON GRAFITO "AUH" "AUH" OILLESS WEAR PLATE



* Areas sin grafito. Cotas en mm.

* All the areas with this signal without graphite. Sizes in mm.

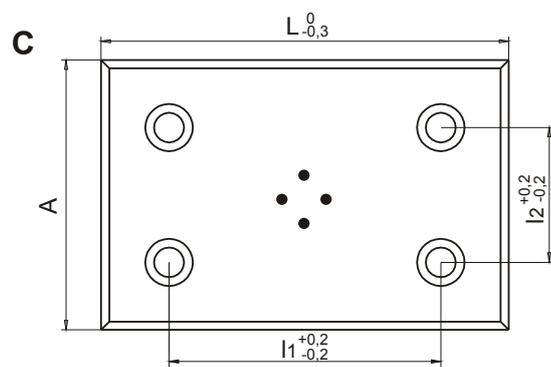
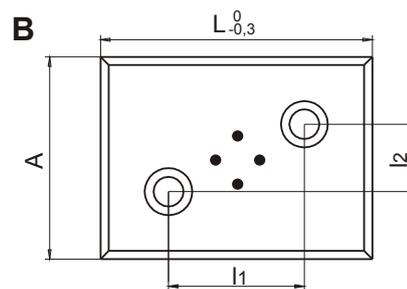
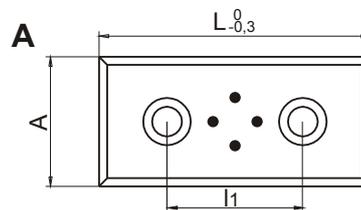
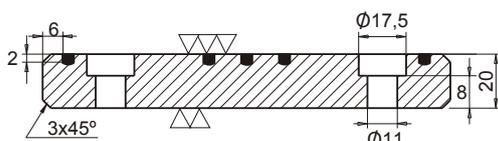
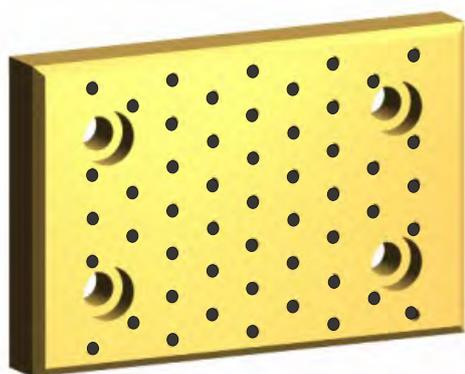
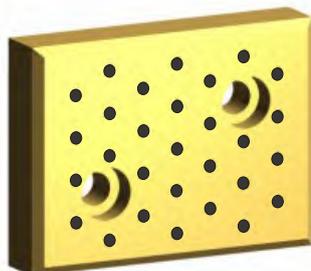
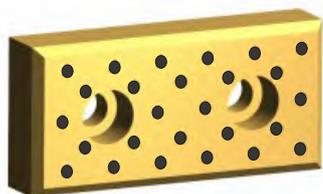
Puede ser cortada en sentido longitudinal, transversal
y diagonal para diferentes usos.

Can be cutted in pieces in any direction for any purpose.

FORMA DE PEDIDO : AUH
ORDER FORM : AUH



PLACA GUIA BRONCE CON GRAFITO "BGP" "BGP" OILLESS WEAR PLATE

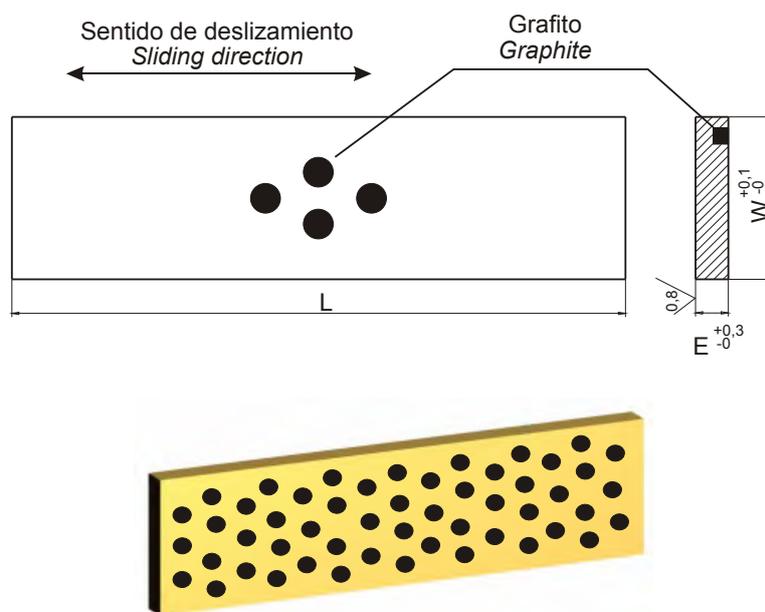


A	L	l1	l2	Forma Style
48	75	45	15	A
48	100	50	25	A
48	125	75	25	A
48	150	100	25	A
75	75	25	25	B
75	100	50	25	B
75	125	75	25	A
75	150	100	25	A
75	200	150	25	A
100	100	50	50	C
100	125	75	50	C
100	150	100	50	C
100	200	150	50	C
100	250	200	50	C
125	150	100	50	C
125	200	150	50	C
125	250	200	50	C
150	150	100	100	C
150	200	150	100	C
150	250	200	100	C

FORMA DE PEDIDO : A x L ORDER FORM : A x L



PLACA GUIA BRONCE CON GRAFITO "BGPS" "BGPS" OILLESS WEAR PLATE



W	E	L
20	4	305
25	5	305
30	6	305-400
35	10	605
40	8	605-1005
40	12	605-1005
50	10	605
60	16	605-1005
80	12	605-1005
80	20	605-1005
100	20	605-1005

FORMA DE PEDIDO : W x E x L
ORDER FORM : W x E x L



PLACA BRONCE GRAFITO "EVA" OILLESS WEAR PLATE "EVA"

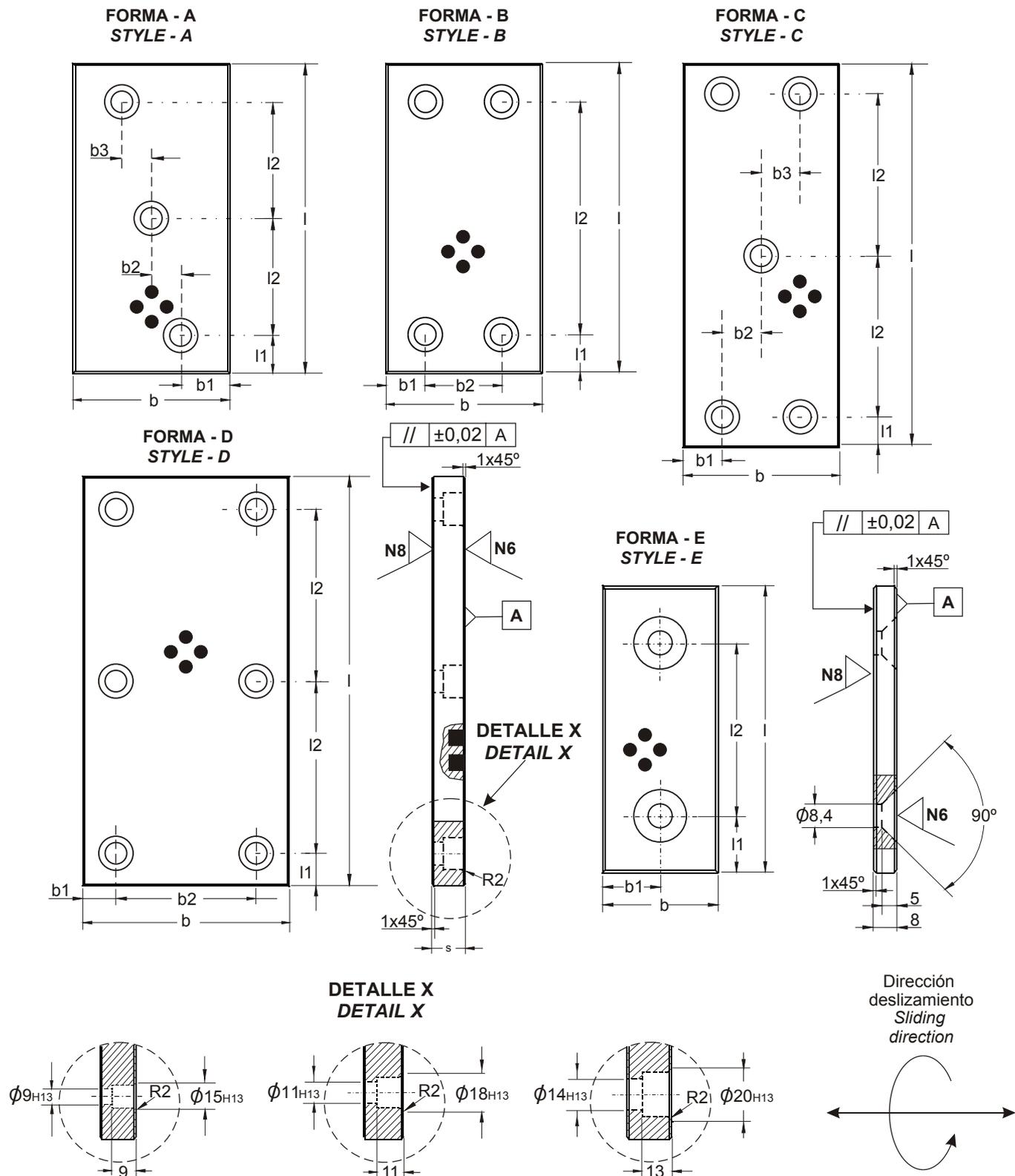


CODIGO CODE	b -0.1	x -0.5	l ±0,025	s	b1	b2 ± 0,2	b3 ± 0,2	l1	l2 ± 0,2	Forma Style	Tornillos/Screws	
											Aloja./Pieces	Din 912
EVA100	125	100	20	20	85			20	60	B	4	M 12 x 25
EVA101	125	160	20	20	85			20	120	B	4	M 12 x 25
EVA102	125	250	20	20	85			20	105	D	6	M 12 x 25
EVA103	100	100	16	20	60			20	60	A	2	M 10 x 20
EVA104	100	160	16	20	60			20	120	B	4	M 10 x 20
EVA105	100	250	16	20	60			20	105	D	6	M 10 x 20
EVA106	80	100	12	20	40			20	60	A	2	M 8 x 20
EVA107	80	160	12	20	40			20	120	B	4	M 8 x 20
EVA108	80	250	12	20	20	20		20	105	C	5	M 8 x 20
EVA109	80	100	20	20	40			20	60	A	2	M 12 x 25
EVA110	80	160	20	20	40			20	120	B	4	M 12 x 25
EVA111	80	250	20	20	20	20		20	105	C	5	M 12 x 25
EVA112	60	100	16	15	30			20	60	A	2	M 10 x 20
EVA113	60	160	16	15	15	15		20	60	A	3	M 10 x 20
EVA114	60	250	16	15	15	15		20	105	A	3	M 10 x 20
EVA115	50	100	20	15	20			20	60	A	2	M 12 x 25
EVA116	50	160	20	15	10	10		20	60	A	3	M 12 x 25
EVA117	50	250	20	15	10	10		20	105	A	3	M 12 x 25
EVA118	40	100	8	20				20	60	E	2	Din 7979
EVA119	40	160	8	20				20	60	E	3	
EVA120	40	250	8	20				20	105	E	3	M 8 x 15
EVA121	40	100	12	20				20	60	A	2	M 8 x 20
EVA122	40	160	12	20				20	60	A	3	M 8 x 20
EVA123	40	250	12	20				20	105	A	3	M 8 x 20
EVA124	40	100	16	20				20	60	A	2	M 10 x 20
EVA125	40	160	16	20				20	60	A	3	M 10 x 20
EVA126	40	250	16	20				20	105	A	3	M 10 x 20
EVA127	30	100	12	15				20	60	A	2	M 8 x 20
EVA128	30	160	12	15				20	60	A	3	M 8 x 20
EVA129	30	250	12	15				20	105	A	3	M 8 x 20

FORMA DE PEDIDO: Codigo
ORDER FORM: Code

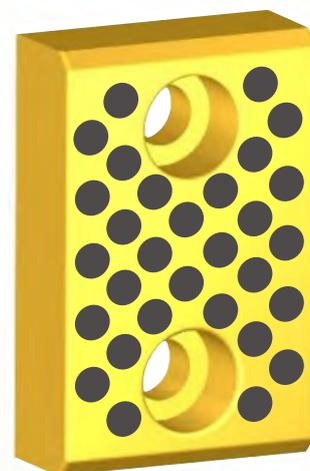
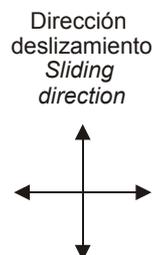
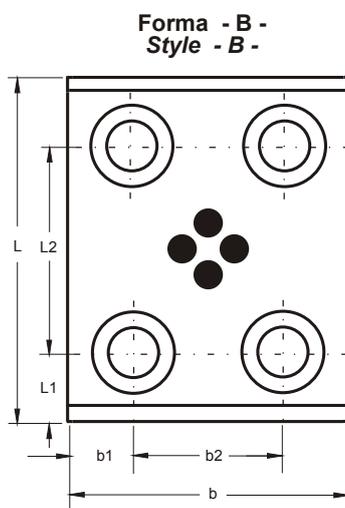
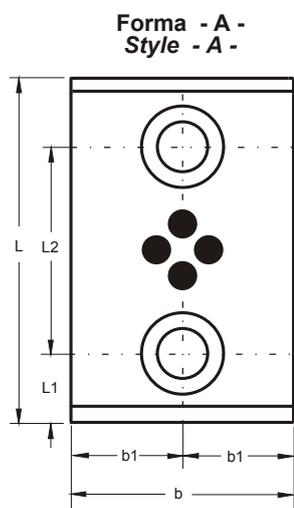


PLACA BRONCE GRAFITO "EVA" (Continuación) OILLESS WEAR PLATE "EVA" (Continued)

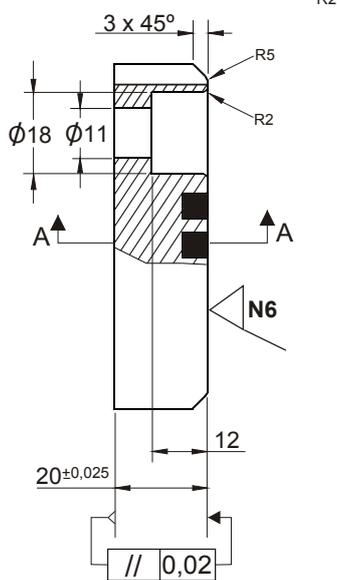




PLACA BRONCE GRAFITO "EVB" OILLESS WEAR PLATE "EVB"



Vista A - A
View A - A

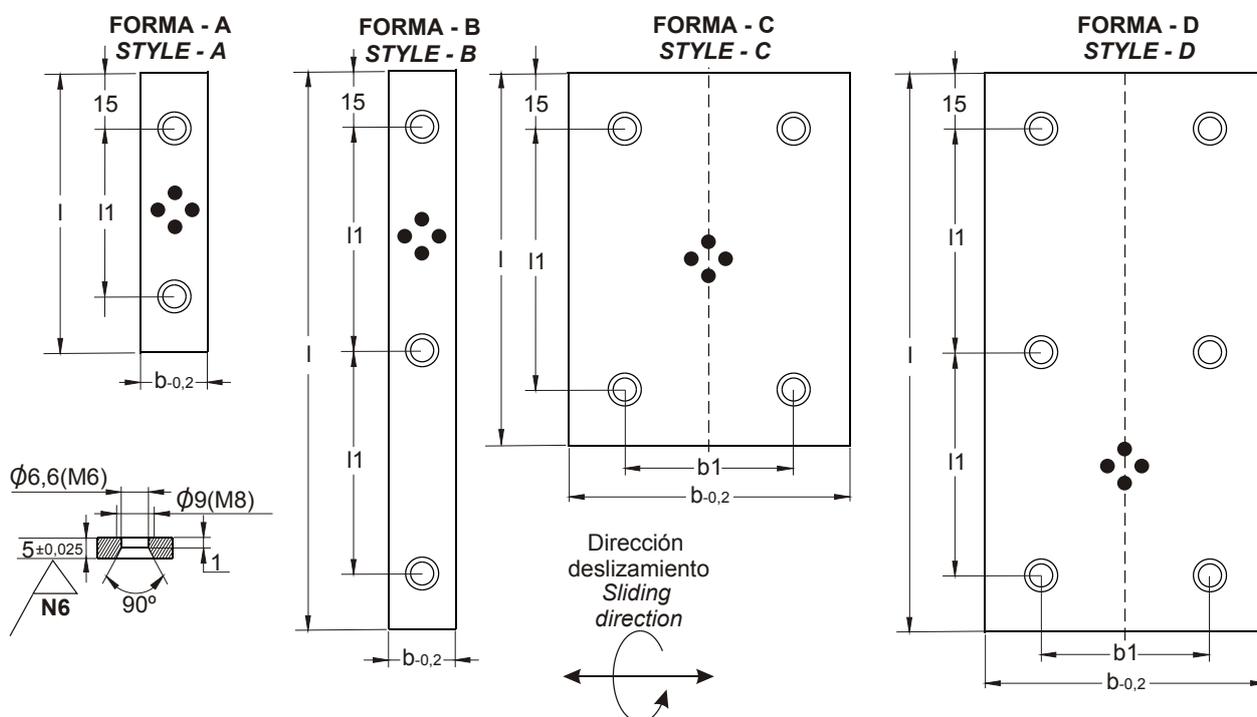


CODIGO/CODE	b x L	b1	b2	L1	L2	Form/Style
EVB200	28 x 75	14		15	45	A
EVB201	28 x 100	14		25	50	A
EVB202	28 x 150	14		25	100	A
EVB203	38 x 75	19		15	45	A
EVB204	38 x 100	19		25	50	A
EVB205	38 x 125	19		25	75	A
EVB206	38 x 150	19		25	100	A
EVB207	48 x 75	24		15	45	A
EVB208	48 x 100	24		25	50	A
EVB209	48 x 125	24		25	75	A
EVB210	48 x 150	24		25	100	A
EVB211	48 x 200	24		25	150	A
EVB212	58 x 75	29		15	45	A
EVB213	58 x 100	29		25	50	A
EVB214	58 x 150	29		25	100	A
EVB215	75 x 75	37.5		25	25	A
EVB216	75 x 100	37.5		25	50	A
EVB217	75 x 125	37.5		25	75	A
EVB218	75 x 150	37.5		25	100	A
EVB219	75 x 200	37.5		25	150	A
EVB220	100 x 100	25	50	25	50	B
EVB221	100 x 125	25	50	25	75	B
EVB222	100 x 150	25	50	25	100	B
EVB223	100 x 200	25	50	25	150	B
EVB224	100 x 250	25	50	25	200	B
EVB225	100 x 300	25	50	25	250	B
EVB226	125 x 125	37.5	50	25	75	B
EVB227	125 x 150	37.5	50	25	100	B
EVB228	125 x 200	37.5	50	25	150	B
EVB229	125 x 250	37.5	50	25	200	B
EVB230	125 x 300	37.5	50	25	250	B
EVB231	125 x 350	37.5	50	25	300	B
EVB232	150 x 150	25	100	25	100	B
EVB233	150 x 200	25	100	25	150	B
EVB234	150 x 250	25	100	25	200	B

FORMA DE PEDIDO : CODIGO
ORDER FORM : CODE



PLACA BRONCE GRAFITO "EVC" "EVC" OILLESS WEAR PLATE



CODIGO/CODE	b x l	b1±0,1	l1±0,1	Form/Style	Torn./Screws
EVC401	18 x 50		20	A	M 6
EVC402	18 x 75		45	A	M 6
EVC403	18 x 100		70	A	M 6
EVC404	18 x 150		60	B	M 6
EVC405	28 x 50		20	A	M 8
EVC406	28 x 75		45	A	M 8
EVC407	28 x 100		70	A	M 8
EVC408	28 x 150		60	B	M 8
EVC409	38 x 50		20	A	M 8
EVC410	38 x 75		45	A	M 8
EVC411	38 x 100		70	A	M 8
EVC412	38 x 150		60	B	M 8
EVC413	48 x 75		45	A	M 8
EVC414	48 x 100		70	A	M 8
EVC415	48 x 125		95	A	M 8
EVC416	48 x 150		60	B	M 8
EVC417	75 x 75	45	45	C	M 8
EVC418	75 x 100	45	70	C	M 8
EVC419	75 x 125	45	95	C	M 8
EVC420	75 x 150	45	60	D	M 8
EVC421	100 x 100	70	70	C	M 8
EVC422	100 x 125	70	95	C	M 8
EVC423	100 x 150	70	60	D	M 8

FORMA DE PEDIDO : CODIGO
ORDER FORM : CODE



PLACA BRONCE GRAFITO "EVC" (Continuación) "EVC" OILLESS WEAR PLATE (Continued)

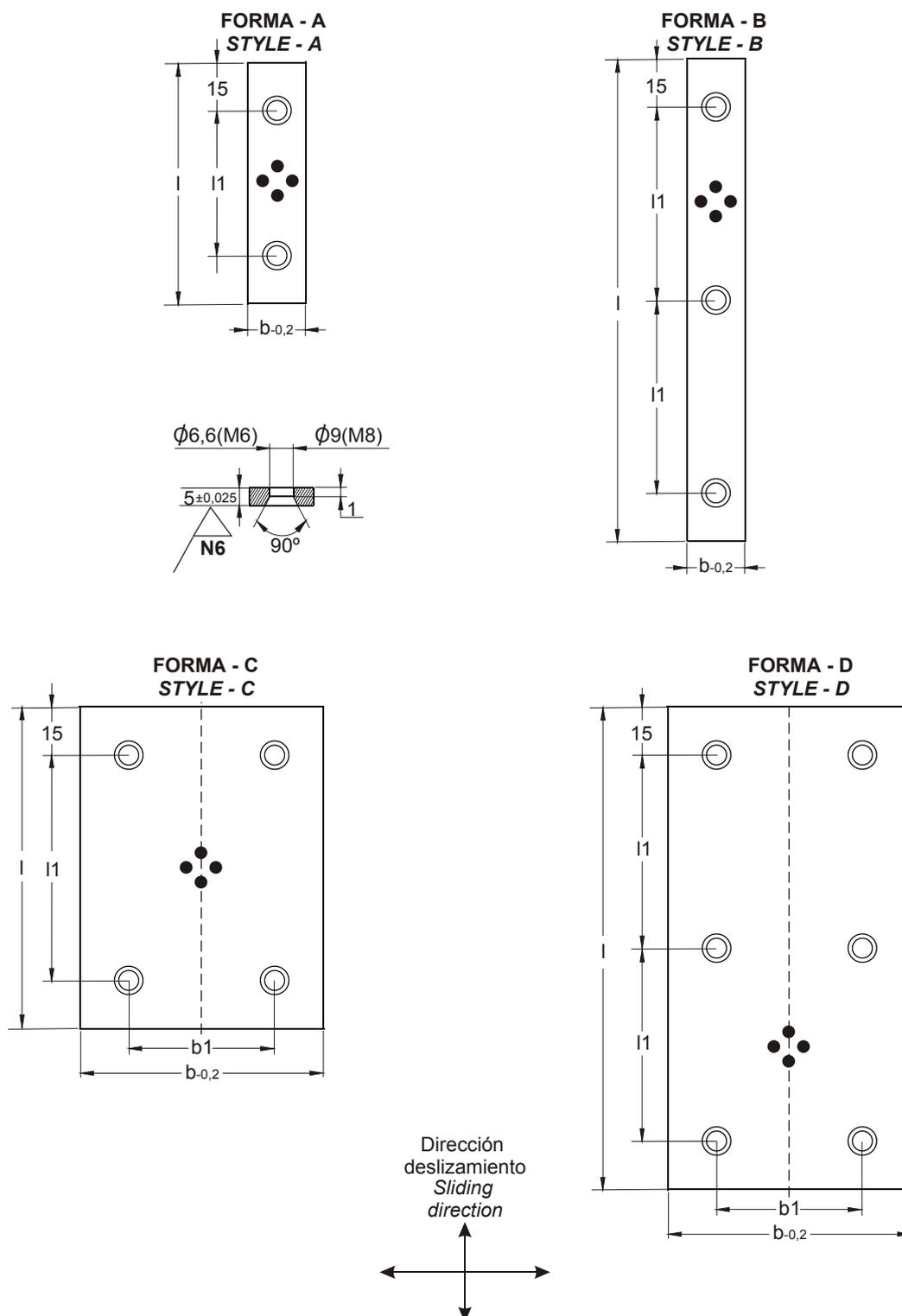


CODIGO/CODE	b x l	b1±0,1	l1±0,1	Form/Style	Torn./Screws
EVC401	18 x 50		20	A	M 6
EVC402	18 x 75		45	A	M 6
EVC403	18 x 100		70	A	M 6
EVC404	18 x 150		60	B	M 6
EVC405	28 x 50		20	A	M 8
EVC406	28 x 75		45	A	M 8
EVC407	28 x 100		70	A	M 8
EVC408	28 x 150		60	B	M 8
EVC409	38 x 50		20	A	M 8
EVC410	38 x 75		45	A	M 8
EVC411	38 x 100		70	A	M 8
EVC412	38 x 150		60	B	M 8
EVC413	48 x 75		45	A	M 8
EVC414	48 x 100		70	A	M 8
EVC415	48 x 125		95	A	M 8
EVC416	48 x 150		60	B	M 8
EVC417	75 x 75	45	45	C	M 8
EVC418	75 x 100	45	70	C	M 8
EVC419	75 x 125	45	95	C	M 8
EVC420	75 x 150	45	60	D	M 8
EVC421	100 x 100	70	70	C	M 8
EVC422	100 x 125	70	95	C	M 8
EVC423	100 x 150	70	60	D	M 8

FORMA DE PEDIDO : CODIGO
ORDER FORM : CODE

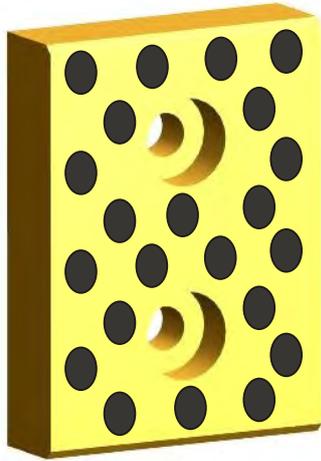


PLACA BRONCE GRAFITO "EVC" (Continuación) "EVC" OILLESS WEAR PLATE (Continued)



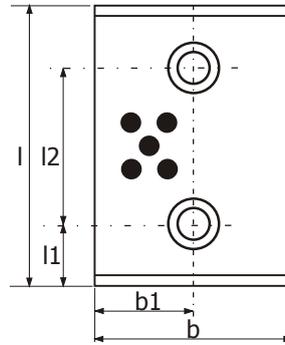


PLACA BRONCE GRAFITO "EVD" "EVD" OILLESS WEAR PLATE

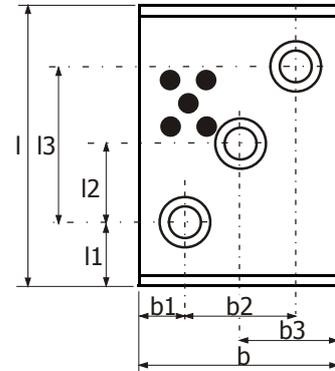


Sentido movimiento
Sliding direction

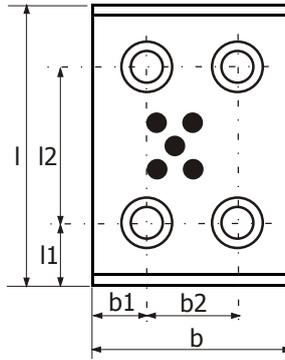
FORMA "A"
TYPE "A"



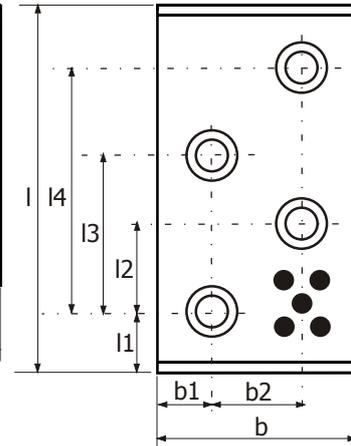
FORMA "B"
TYPE "B"



FORMA "C"
TYPE "C"



FORMA "D"
TYPE "D"



CODIGO CODE	b x l x s	b1	b2	b3	l1	l2	l3	l4	DIN912	Piezas Number	Forma Type		
EVD01	40x75x15	20	--	--	15	45	--	--	M8	2	A		
EVD02	40x100x15					50							
EVD03	40x125x15					75							
EVD04	40x150x15					100							
EVD05	40x75x16	20	--	--	15	45	--	--	M8	2	A		
EVD06	40x100x16					50							
EVD07	40x125x16					75							
EVD08	40x150x16					100							
EVD09	60x75x16	30	--	--	15	45	--	--	M8	2	A		
EVD10	60x100x15					50							
EVD11	60x125x15					75							
EVD12	60x150x15					100							
EVD13	60x75x20	30	--	--	15	45	--	--	M10	2	A		
EVD14	60x100x20					50							
EVD15	60x125x20					75							
EVD16	60x150x20					100							
EVD17	80x75x20	25	30	--	25	25	--	--	M10	2	B		
EVD18	80x100x20					50							
EVD19	80x125x20			75		100				150		4	C
EVD20	80x160x20			40									
EVD21	80x200x20	--	25	50	25	25	--	--	M10	4			
EVD22	100x75x20	25				50					25	50	
EVD23	100x100x20											75	
EVD24	100x125x20											100	
EVD25	100x160x20											150	
EVD26	100x200x20											2	

FORMA DE PEDIDO : CODIGO ORDER FORM : CODE

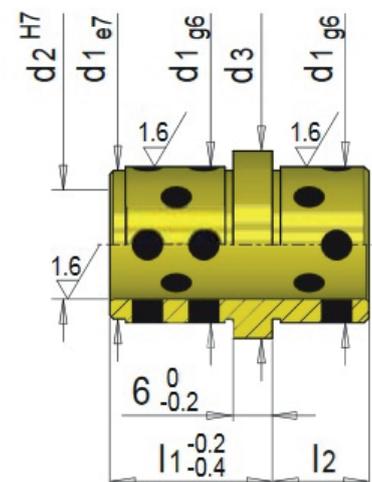


GUIDE BUSH BRONZE-GRAPHITE EL1125 CASQUILLO GUIA BRONCE+GRAF. EL1125

Compatible: E1125

Mat.:2.0598= 200 HB t max. = 200° C.

d1	d3	d2	l2	l1	Code/Código
14	17	10	9	12	EL1125/10-9/12
				17	EL1125/10-9/17
16	19	12	9	17	EL1125/12-9/17
				12	EL1125/12-12/17
18	21	14	12	17	EL1125/14-12/17
				22	EL1125/14-12/22
				17	EL1125/14-17/22
				27	EL1125/14-17/27
24	27	18	22	27	EL1125/14-22/27
				12	EL1125/18-12/17
				22	EL1125/18-12/22
				17	EL1125/18-17/22
26	29	20	27	27	EL1125/18-22/27
				17	EL1125/20-17/22
				22	EL1125/20-22/27
				17	EL1125/22-17/22
28	31	22	22	27	EL1125/22-22/27
				17	EL1125/24-17/22
30	33	24	27	27	EL1125/24-17/27
				36	EL1125/24-27/36
				22	EL1125/24-22/27
				27	EL1125/30-22/27
38	41	30	36	27	EL1125/30-27/36
				46	EL1125/30-27/46
				36	EL1125/30-36/46
				46	EL1125/30-36/46
48	51	40	36	46	EL1125/40-36/46



FORMA DE PEDIDO: Código

ORDER FORM: Code



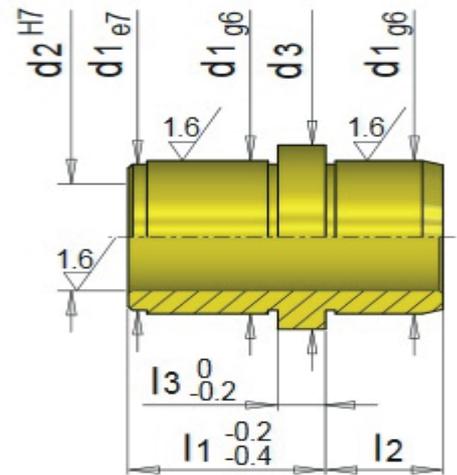
CASQUILLO GUIA LATON EL1120

BRASS GUIDE BUSH EL1120

Compatible: E1120

Mat.:2.0598= 200 HB t max. = 200° C.

l3	d1	d3	d2	l2	l1	Code /Codigo		
3	14	16	10	5	10	EL1120/10-5/10		
6		17		9	12	EL1120/10-9/12		
					17	EL1120/10-9/17		
3		16		10	10	EL1120/10-10/10		
6	16	19	12	9	17	EL1120/12-9/17		
				12	17	EL1120/12-12/17		
	18	21	14	12	17	22	EL1120/14-12/17	
					22	22	EL1120/14-12/22	
					17	22	EL1120/14-17/22	
	24	27	18	12	17	17	EL1120/18-12/17	
					22	22	EL1120/18-12/22	
					17	22	22	EL1120/18-17/22
						27	27	EL1120/18-17/27
					22	27	EL1120/18-22/27	
	26	29	20	17	22	22	EL1120/20-17/22	
					22	27	EL1120/20-22/27	
	28	31	22	17	22	22	EL1120/22-17/22	
					22	27	EL1120/22-22/27	
	30	33	24	17	22	22	EL1120/24-17/22	
					27	27	EL1120/24-17/27	
					22	27	EL1120/24-22/27	
	27	36	EL1120/24-27/36	27	36	36	EL1120/24-27/36	
22					27	EL1120/30-22/27		
27					36	36	EL1120/30-27/36	
	46	46	EL1120/30-27/46					
36	46	EL1120/30-36/46	36	46	46	EL1120/30-36/46		
				46	46	EL1120/30-36/46		
48	51	40	36	46	46	EL1120/40-36/46		



FORMA DE PEDIDO: Código

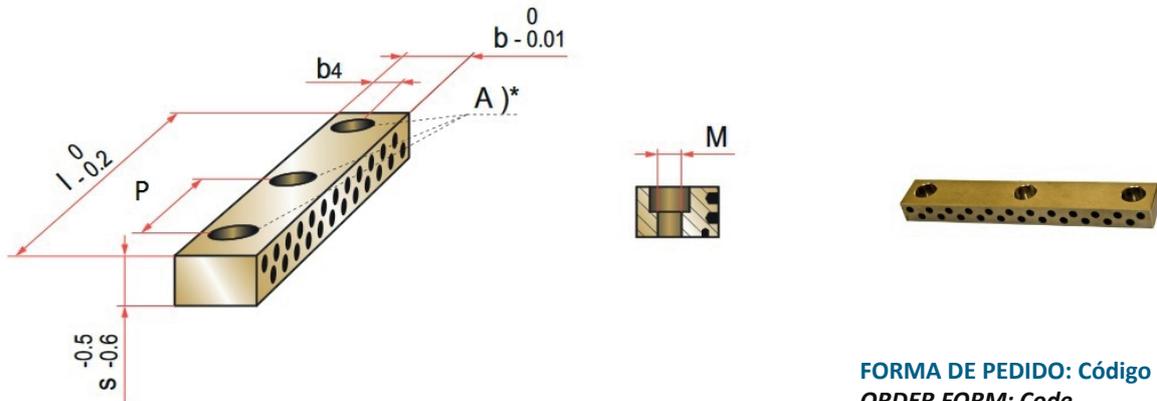
ORDER FORM: Code



REGLETA GUIA PLANA "EL3143" FLAT GUIDING RAIL "EL3143"

Compatible: E3143

Mat.: 2.0598 = 180 HB / Graphite t max. = 200° C



FORMA DE PEDIDO: Código
ORDER FORM: Code

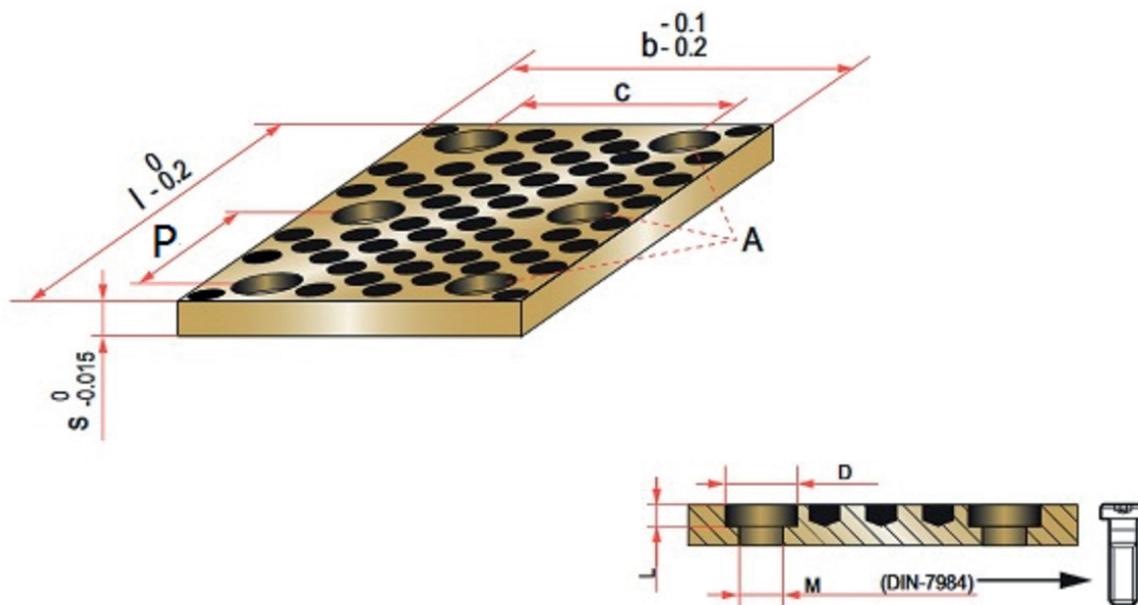
SCREW	M	A	b4	P	b	s	l	Code/Codigo
DIN 7984	M 5	2	6	24	16	6	40	EL3143/16/6/40
				34			50	EL3143/16/6/50
		47		63			EL3143/16/6/63	
		32		80			EL3143/16/6/80	
	M 5	2	6	34	16	8	50	EL3143/16/8/50
				47			63	EL3143/16/8/63
		32		80			EL3143/16/8/80	
		42		100			EL3143/16/8/100	
DIN 912	M 6	2	9	43	20	12	63	EL3143/20/12/63
				60			80	EL3143/20/12/80
		40		100			EL3143/20/12/100	
		52,5		125			EL3143/20/12/125	
	M 6	2	9	60	20	16	80	EL3143/20/16/80
				40			100	EL3143/20/16/100
		52,5		125			EL3143/20/16/125	
		70		160			EL3143/20/16/160	
	M 8	2	11	76	25	22	100	EL3143/25/22/100
				50,5			125	EL3143/25/22/125
		68		160			EL3143/25/22/160	
		58		200			EL3143/25/22/200	
	M 8	3	11	50,5	25	30	125	EL3143/25/30/125
				68			160	EL3143/25/30/160
		58		200			EL3143/25/30/200	
		74		250			EL3143/25/30/250	
	M 10	3	14	64	32	38	160	EL3143/32/38/160
				84			200	EL3143/32/38/200
		72		250			EL3143/32/38/250	
		93		315			EL3143/32/38/315	



PLACA DESLIZAMIENTO BRONCE-GRAFITO EL3176 FLAT GUIDING STOCK BRONZE-GRAPHITE EL3176

Compatible E3176

Mat: 2.0598 = 180 HB / Graphite t max. = 200° C



M x D x L	A	c	P	b	s	l	Code / Código	
M4 x 7 x 2,8	2	-	16	12	5	32	EL3176/12/5/32	
			24			40	EL3176/12/5/40	
			34			50	EL3176/12/5/50	
			47			63	EL3176/12/5/63	
	3	-	-	32	12	5	80	EL3176/12/5/80
				47			100	EL3176/12/5/100
M4 x 7 x 2,8	2	-	16	16	5	32	EL3176/16/5/32	
			24			40	EL3176/16/5/40	
			34			50	EL3176/16/5/50	
			47			63	EL3176/16/5/63	
	3	-	-	32	16	5	80	EL3176/16/5/80
				42			100	EL3176/16/5/100
M5 x 8,5 x 3,5	2	-	20	20	6	40	EL3176/20/6/40	
			30			50	EL3176/20/6/50	
			43			63	EL3176/20/6/63	
			60			80	EL3176/20/6/80	
	3	-	-	40	20	6	100	EL3176/20/6/100
				60			120	EL3176/20/6/120

FORMA DE PEDIDO: Código

ORDER FORM: Code



PLACA DESLIZAMIENTO BRONCE-GRAFITO EL3176 (Continuación) FLAT GUIDING STOCK BRONZE-GRAPHITE EL3176 (Continued)

Compatible E3176

Mat: 2.0598 = 180 HB / Graphite t max. = 200° C

M5 x 8,5 x 3,5	2	-	20	25	6	40	EL3176/25/6/40	
			26			50	EL3176/25/6/50	
			39			63	EL3176/25/6/63	
			56			80	EL3176/25/6/80	
			76			100	EL3176/25/6/100	
	3	50,5	125	EL3176/25/6/125				
M5 x 8,5 x 3,5	2	-	26	32	6	50	EL3176/32/6/50	
			39			63	EL3176/32/6/63	
			56			80	EL3176/32/6/80	
			76			100	EL3176/32/6/100	
			50,5			125	EL3176/32/6/125	
	3	68	160	EL3176/32/6/160				
M5 x 8,5 x 3,5	4	20	39	40	6	63	EL3176/40/6/63	
			56			80	EL3176/40/6/80	
			76			100	EL3176/40/6/100	
	6		50,5			125	EL3176/40/6/125	
			8			68	160	EL3176/40/6/160
						58	200	EL3176/40/6/200
M6 x 10 x 4	4	24	56	50	8	80	EL3176/50/8/80	
			76			100	EL3176/50/8/100	
			50,5			125	EL3176/50/8/125	
	6		68			160	EL3176/50/8/160	
			8			58	200	EL3176/50/8/200
						74	250	EL3176/50/8/250
M6 x 10 x 4	4	35	76	63	8	100	EL3176/63/8/100	
			50,5			125	EL3176/63/8/125	
			68			160	EL3176/63/8/160	
	6		58			200	EL3176/63/8/200	
			8			72	250	EL3176/63/8/250
						93	315	EL3176/63/8/315
M6 x 10 x 4	6	50	50,5	80	8	125	EL3176/80/8/125	
			68			160	EL3176/80/8/160	
			58			200	EL3176/80/8/200	
	8		72			250	EL3176/80/8/250	
			93			315	EL3176/80/8/315	

FORMA DE PEDIDO: Código

ORDER FORM: Code



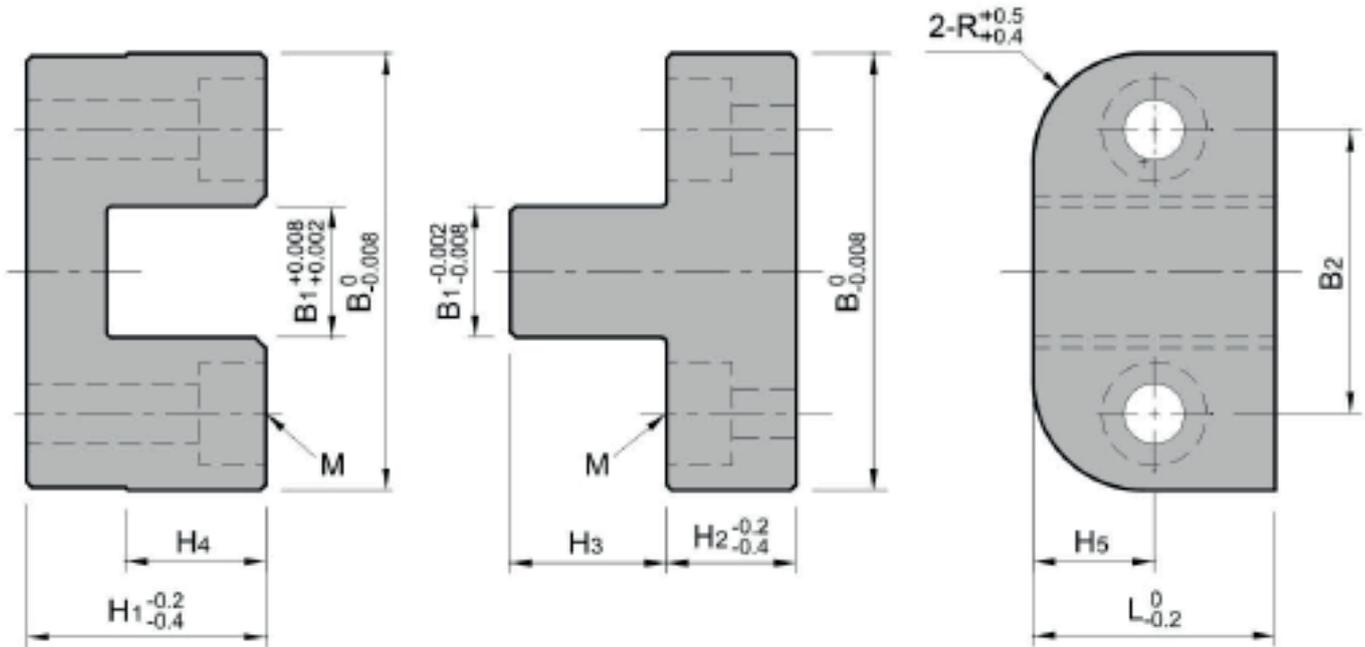
CENTRADOR RECTO EL1304 TOP LOCK EL1304

Compatible: E1304

Mat.: 1.2162 56 HRC

DISPONIBLE CON Y SIN BAÑO "DLC"

AVAILABLE WITH AND WITHOUT "DLC" COATING



B	B1	B2	H1	H2	H3	H4	H5	L	R	M	Code/Código
34	10	22	18	10	12	11	9	18	8	M4	EL1304-34
40	12	26	22	12	14	13	11	22	10	M5	EL1304-40
50	18	34	30	15	18	17	15	30	10	M6	EL1304-50
64	22	42	40	18	24	23	20	40	10	M8	EL1304-64
72	26	48	46	20	28	27	26	52	10	M8	EL1304-72
96	36	66	57	22	36	31	28	56	10	M10	EL1304-96

FORMA DE PEDIDO: Código

ORDER FORM: Code

