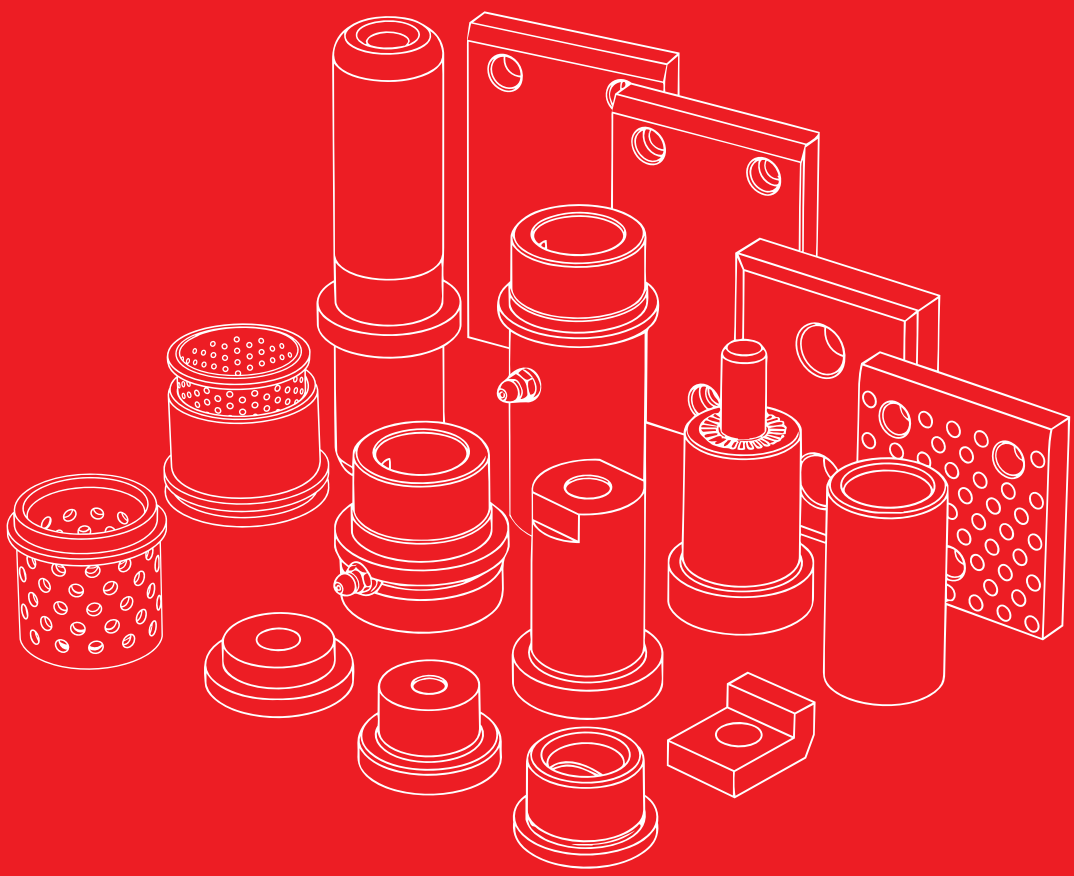


Global Kalıp Elemanları
Global Die Components
Componentes Globales para Troqueles

Inch & Metric Series



Bir şirketten fazlası

GSB OILLESS firmasını 25 yıl önce İstanbul'da metal şekillendirme kalıpları için üstün hizmet ve yüksek kalite standart kalıp elemanları tedarik etmek amacıyla kurduk. Kuruluşumuzun ardından 5 yıl içerisinde önemli bir pazar payını elde etmeyi başardık ve firmamızı Türkiye lideri olarak konumlandırdık. Daha sonra misyonumuzu ticaretten üretime taşıdık ve yolumuza bu sektörde ana global oyunculardan biri olma hedefiyle devam ettik. 25 yıl sonra bugün, 3 farklı kıtada, 15'in üzerinde ülkede, lider otomotiv gruplarının neredeyse hepsine üretim ve ihracat yapıyoruz. Kesin olarak kabul ediyoruz ki büyümemiz, çalışanlarımızın azmi ve bu şirkete gösterdikleri bağlılığın sonucudur. Gelirimizin önemli bir kısmı işyerimizi daha güvenli ve iyi hale getirmek için harcanmaktadır.

More than a Company

GSB OILLESS was established 25 years ago in Istanbul as a trading company with a core and ambitious mission in order to provide outstanding services and premium equipments destined to sheet metal forming dies. In 5 years we managed to acquire a significant market share and asserted ourselves as the leaders in Turkey. We recalibrated our aim from trading to producing, and pursued our mission to become a main global player. Today, 25 years after, we manufacture and export to almost every major automotive group in 3 different continents and 15+ countries.
We firmly acknowledge that our growth is the definitive proof of the passion that our employees have dedicated to this company. As such, significant share of our earnings are used to make our workplace safer and more welcoming.





Más que una Empresa

GSB OILLESS fue fundada hace 25 años en Estambul como una empresa comercial, con una misión sólida y ambiciosa: ofrecer un servicio excepcional y equipos de alta calidad destinados a la fabricación de matrices para el conformado de chapa metálica.
En tan solo 5 años, logramos alcanzar una importante cuota de mercado y consolidarnos como una de las empresas líderes del sector en Turquía. Reorientamos nuestro objetivo, pasando de la actividad comercial a la producción, y continuamos avanzando con la visión de convertirnos en un actor relevante a nivel mundial.
Hoy, 25 años después de nuestra fundación, fabricamos y exportamos nuestros productos a casi todos los principales grupos automotrices, con presencia en 3 continentes y en más de 15 países.
Estamos convencidos de que nuestro crecimiento es la prueba más tangible de la pasión y el compromiso que nuestros empleados han dedicado a esta empresa. Por ello, destinamos una parte significativa de nuestros ingresos a mejorar nuestro entorno de trabajo, haciéndolo más seguro, cómodo y acogedor para todos nuestros empleados.

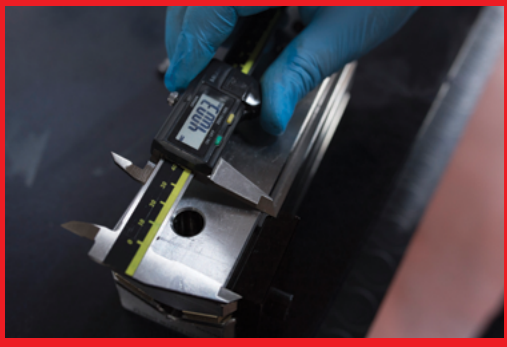


Duyarlılık ve Azmin Ürünü

Bu katalogda sizlere, altmıştan fazla çalışanımızın azimli ve titiz çalışmalarının ürünlerini sunmaktayız. Toplum sağlığına ve çevreye duyarlılığımız, sosyal sorumluluk anlayışımızla birleşince kalite yönetim sistemleri için ISO 9001 sertifikasını, çevre yönetim sistemleri için ISO 14001 sertifikasını ve mesleki sağlık ve güvenlik yönetimi sistemleri için de ISO 45001 sertifikasını almamıza olanak sağlamıştır. GSB OILLESS' de bizler, üretken süreçler ve teknolojinin yanı sıra insan kaynağına da yatırım yapmaktayız.

Driven By Precision and Ambition

In this catalog we present you the result of our ambition and of the hardwork of our 60+ employees. The pursuit of precision and social responsibility allowed us to obtain the ISO 9001 certification for quality management systems, the ISO 14001 certification for environment management systems, and the ISO 45001 certification for occupational health and safety management systems. At GSB OILLESS we invest in productive processes, technology, and particularly in our human capital.





Impulsados por la Precisión y la Ambición

En este catálogo presentamos el resultado de nuestra ambición y del arduo trabajo de nuestros más de 60 empleados. Nuestro compromiso con la precisión y la responsabilidad social nos ha permitido obtener la certificación ISO 9001 para sistemas de gestión de la calidad, la certificación ISO 14001 para sistemas de gestión ambiental y la certificación ISO 45001 para sistemas de gestión de la seguridad y salud en el trabajo. En GSB OILLESS invertimos en procesos productivos, tecnología y, especialmente, en nuestro capital humano.

NOTLAR / NOTES / NOTAS

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2	**INCH**	KILAVUZ KOLONLAR, BURÇLAR VE AKSESUARLAR PINS & BUSHINGS & ACCESSORIES COLUMNAS GUÍA, BUJES Y ACCESORİOS
3	**WEAR PRODUCTS**	KILAVUZ ELEMANLARI GUIDE ELEMENTS ELEMENTOS DE GUIADO Y DESLIZAMIENTO



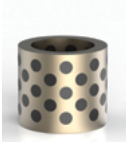
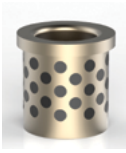
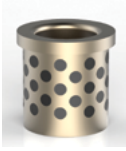
1 KILAVUZ KOLONLAR, BURÇLAR VE AKSESUARLARI
PINS & BUSHINGS & ACCESSORIES
COLUMNAS GUÍA, BUJES Y ACCESORİOS

METRIC

NOTLAR / NOTES / NOTAS

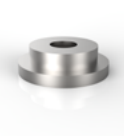
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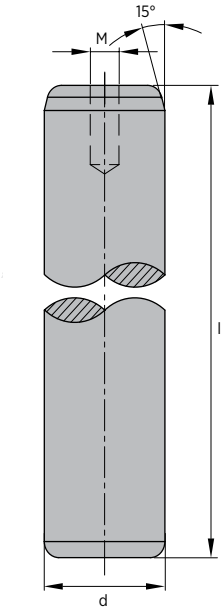
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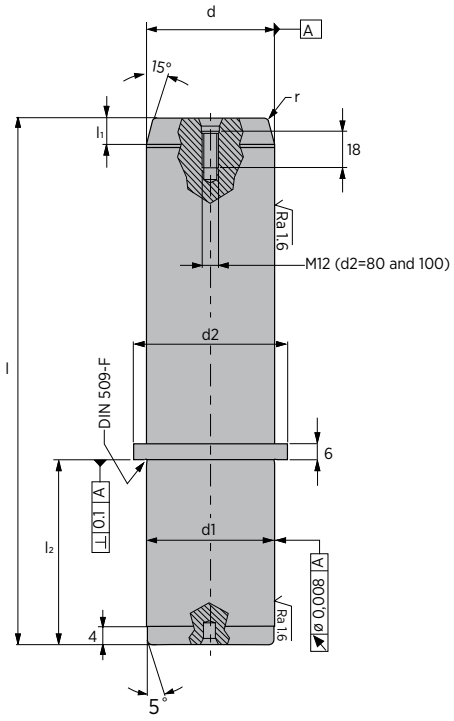
Hammadde / Material :
Hardened Steel



d	l																					M
18	100	110	120	130	140	150	160	170	180	190	200	-	-	-	-	-	-	-	-	-	-	-
19	100	110	120	130	140	150	160	170	180	190	200	-	-	-	-	-	-	-	-	-	-	-
24	100	110	120	130	140	150	160	170	180	190	200	220	240	260	-	-	-	-	-	-	-	-
25	100	110	120	130	140	150	160	170	180	190	200	220	240	260	-	-	-	-	-	-	-	M6
30	100	110	120	130	140	150	160	170	180	190	200	220	240	260	280	300	320	-	-	-	-	-
32	100	110	120	130	140	150	160	170	180	190	200	220	240	260	280	300	320	-	-	-	-	M6
38	-	110	120	130	140	150	160	170	180	190	200	220	240	260	280	300	320	360	-	-	-	-
40	-	110	120	130	140	150	160	170	180	190	200	220	240	260	280	300	320	360	-	-	-	M10
48	-	-	-	130	140	150	160	170	180	190	200	220	240	260	280	300	320	360	400	450	-	-
50	-	-	-	130	140	150	160	170	180	190	200	220	240	260	280	300	320	360	400	450	-	M10
63	-	-	-	-	-	-	-	-	-	-	200	220	240	260	280	300	320	360	400	450	500	M10
80	-	-	-	-	-	-	-	-	-	-	200	220	240	260	280	300	320	360	400	450	500	M10

Sipariş Örneği / Order Example / Ejemplo de Pedido:
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Sipariş Kodu / Order Code / Código de Pedido:
G200-03-080-320





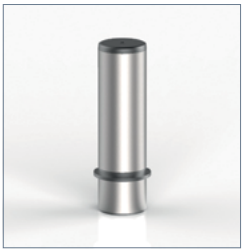
Hammadde / Material :
Steel

Surface Hardened
HRC 57 ÷ 62

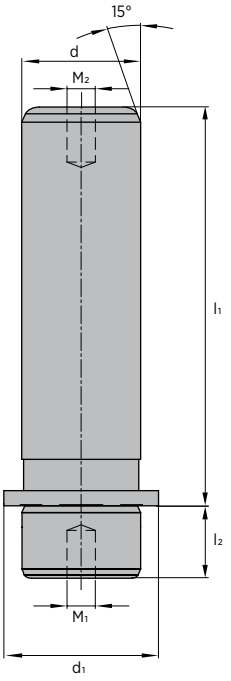
d f6	d1 r6	l											l1	l2	d2	r
25	25	140	160	180	-	-	-	-	-	-	-	-	4	40	33	2
32	32	140	160	180	200	-	-	-	-	-	-	-	8	45	40	2
40	40	-	160	180	200	224	250	-	-	-	-	-	8	56	50	2
50	50	-	160	180	200	224	250	280	315	-	-	-	10	70	60	2.5
63	63	-	-	-	200	224	250	280	315	355	400	-	10	80	80	2.5
80	80	-	-	-	-	-	250	280	315	355	400	500	10	100	90	3
100	100	-	-	-	-	-	-	-	315	355	400	500	10	125	110	3

Sipariş Örneği / Order Example / Ejemplo de Pedido:
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Sipariş Kodu / Order Code / Código de Pedido:
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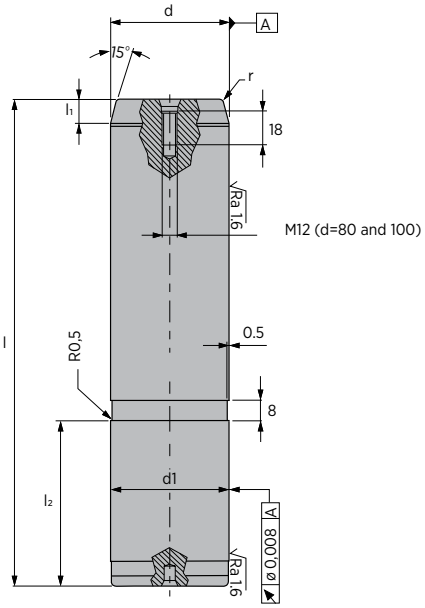
Hammadde / Material :
Hardened Steel



d	l1																			l2	d1	M1	M2
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19	80	90	100	110	120	-	140	-	160	-	-	-	-	-	-	-	-	-	-	20	25.60	M5	-
24	80	90	100	110	120	130	140	150	160	170	180	190	200	-	-	-	-	-	-	24	32.60	M6	-
25	80	90	100	110	120	130	140	150	160	170	180	190	200	-	-	-	-	-	-	24	32.60	M6	M6
30	-	-	100	110	120	130	140	150	160	170	180	190	200	220	240	280	-	-	-	30	40.60	M6	-
32	-	-	100	110	120	130	140	150	160	170	180	190	200	220	240	280	-	-	-	30	40.60	M6	M6
38	-	-	-	110	120	130	140	150	160	170	180	190	200	220	240	280	-	-	-	37	50.80	M10	-
40	-	-	-	110	120	130	140	150	160	170	180	190	200	220	240	280	-	-	-	37	50.80	M10	M10
48	-	-	-	110	120	130	140	150	160	170	180	190	200	220	240	280	320	360	400	45	63.80	M12	-
50	-	-	-	110	120	130	140	150	160	170	180	190	200	220	240	280	320	360	400	45	63.80	M12	M10
63	-	-	-	-	120	-	140	-	160	-	180	-	200	220	240	280	320	360	400	49	76.00	M16	M10
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Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 80, **l1=** 320

Sipariş Kodu / Order Code / Código de Pedido:
G201-04-080-320





Material :
Steel

Surface Hardened
HRC 60 ÷ 62

d w	d1 r6	l																l1	l2	r
25	25	140	160	180	-	-	-	-	-	-	-	-	-	-	-	-	-	4	40	2
32	32	140	160	180	200	-	-	-	-	-	-	-	-	-	-	-	-	8	45	2
40	40	-	160	180	200	224	250	-	-	-	-	-	-	-	-	-	-	8	56	2
50	50	-	160	180	200	224	250	280	-	315	-	360	-	-	-	-	-	10	70	2.5
63	63	-	-	-	200	224	250	280	300	315	355	-	400	-	-	-	-	10	80	2.5
80	80	-	-	-	-	-	250	280	-	315	355	-	400	450	500	-	-	10	100	3
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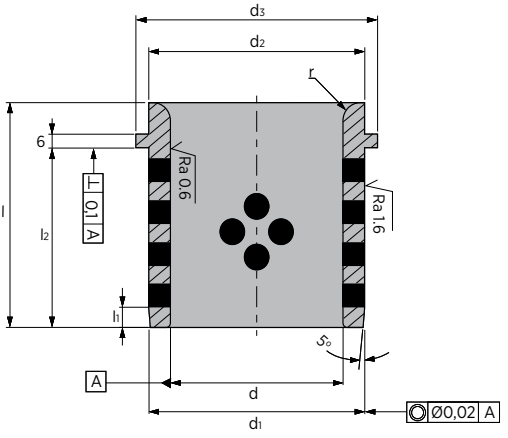
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Sipariş Kodu / Order Code / Código de Pedido:
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Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

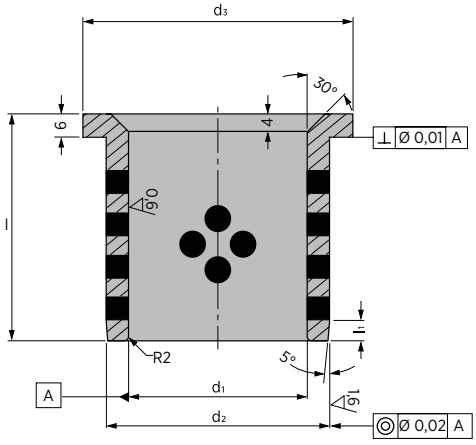


KOD / CODE / CÓDIGO	d H7	l -0.5	l1	l2	d1 g6	d2 -0.25	d3 -0.8	r
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G211-01-032-050	32	50	4	40	40	40	50	3
G211-01-040-063	40	63	5	50	50	50	63	3
G211-01-050-071	50	71	6.3	56	63	63	71	5
G211-01-063-080	63	80	8	63	80	80	90	6
G211-01-080-100	80	100	10	80	100	100	112	8
G211-01-100-125	100	125	12,5	106	125	125	140	10
G211-01-125-160	125	160	16	132	160	160	180	12

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 80, **l=** 100

Sipariş Kodu / Order Code / Código de Pedido:
G211-01-080-100





Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

KOD / CODE / CÓDIGO	d_1 c9	l	d_2 g6	d_3	l_1
G211-03-025-040	25	40	32	40	4
G211-03-032-050	32	50	40	50	4
G211-03-040-055	40	55	50	63	5
G211-03-050-063	50	63	63	71	6
G211-03-063-075	63	75	80	90	8
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G211-03-125-138	125	138	160	180	12

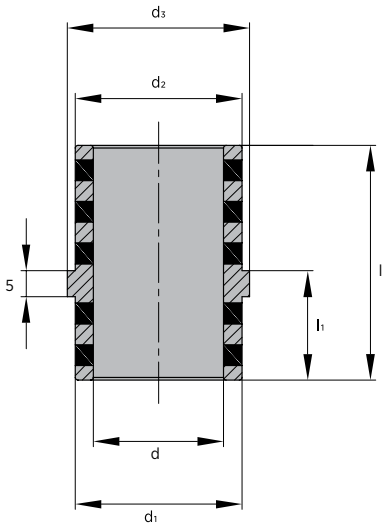
Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 80, **l=** 90

Sipariş Kodu / Order Code / Código de Pedido:
G211-03-080-090



Hammadde / Material :
Bronze + Graphite

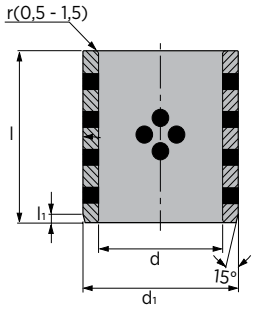
Hardness
HB ≥ 190



KOD / CODE / CÓDIGO	d	l	l_1	d_1	d_2	d_3
G211-10-020-037	20	37	25	26	26	28
G211-10-025-045	25	45	29	32	32	35
G211-10-030-045	30	45	29	38	38	41

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Sipariş Kodu / Order Code / Código de Pedido:
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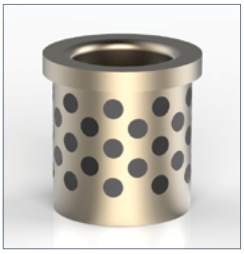
Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

d F7	d1 m6	l -0.1 / -0.3																			l1
8	12	8	10	12	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5
10	14	8	10	12	15	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	0.5
12	18	8	10	12	15	16	19	20	25	30	-	-	-	-	-	-	-	-	-	-	0.5
16	22	-	10	12	15	16	19	20	25	30	35	40	-	-	-	-	-	-	-	-	0.5
18	24	-	10	12	15	16	-	20	25	30	35	40	-	-	-	-	-	-	-	-	0.5
20	28	-	10	12	15	16	19	20	25	30	35	40	50	-	-	-	-	-	-	-	0.5
20	30	-	10	12	15	16	-	20	25	30	35	40	-	-	70	-	-	-	-	-	0.5
25	33	-	-	12	15	16	-	20	25	30	35	40	50	60	-	-	-	-	-	-	0.5
25	35	-	-	12	15	16	-	20	25	30	35	40	50	-	-	-	-	-	-	-	0.5
30	38	-	-	12	15	-	-	20	25	30	35	40	50	60	-	-	-	-	-	-	1
30	40	-	-	12	15	-	-	20	25	30	35	40	50	60	-	-	-	-	-	-	1
35	44	-	-	-	-	-	-	20	25	30	35	40	50	60	-	-	-	-	-	-	1
35	45	-	-	-	15	-	-	20	25	30	35	40	50	60	-	-	-	-	-	-	1
40	50	-	-	-	15	-	-	20	25	30	35	40	50	60	70	80	-	-	-	-	1
40	55	-	-	-	15	-	-	-	25	30	35	40	50	60	-	-	-	-	-	-	1
50	60	-	-	-	-	-	-	20	25	30	35	40	50	60	70	80	-	-	-	-	1
50	62	-	-	-	-	-	-	-	-	30	35	40	50	60	70	80	-	-	-	-	1
50	65	-	-	-	-	-	-	-	-	30	-	40	50	60	70	80	-	100	-	-	1
60	75	-	-	-	-	-	-	-	-	30	35	40	50	60	70	80	-	100	-	-	1
70	85	-	-	-	-	-	-	-	-	30	35	40	50	60	70	80	-	100	-	-	1
80	96	-	-	-	-	-	-	20	-	-	-	40	50	60	70	80	-	100	120	-	1
80	100	-	-	-	-	-	-	-	-	-	-	40	50	60	70	80	-	100	120	-	140	1
100	120	-	-	-	-	-	-	-	-	-	-	40	50	60	70	80	90	100	120	-	140	1.5
100	130	-	-	-	-	-	-	-	-	-	-	-	50	-	70	80	-	100	120	-	-	1.5
110	130	-	-	-	-	-	-	-	-	-	-	-	50	-	70	80	-	100	120	-	-	1.5
130	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	-	100	-	130	-	1.5

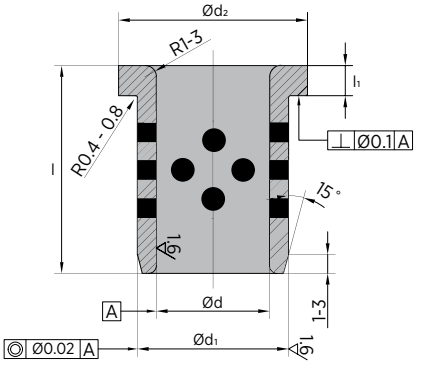
Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 25, **d1=** 33, **l=** 50

Sipariş Kodu / Order Code / Código de Pedido:
G212-01-025033050



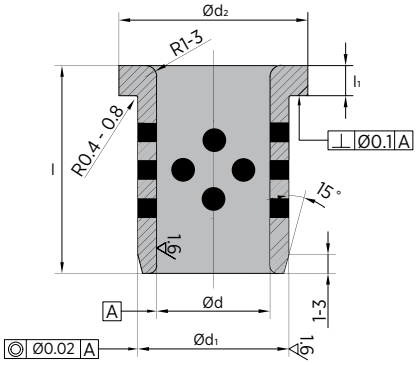
Hammadde / Material :
Bronze + Graphite

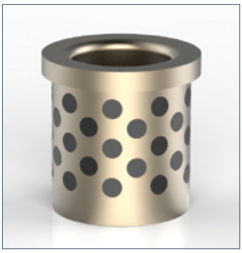
Hardness
HB ≥ 190



KOD / CODE / CÓDIGO	Ød E7	Ød₁ r6	Ød₂	l₁ -0.1	l -0.1 / -0.3
BU08 0008010 257	8	12	20	2	10
BU08 0008012 258	8	12	20	2	12
BU08 0008015 259	8	12	20	2	15
BU08 0010010 260	10	14	22	2	10
BU08 0010012 261	10	14	22	2	12
BU08 0010015 262	10	14	22	2	15
BU08 0010017 318	10	14	22	2	17
BU08 0010020 263	10	14	22	2	20
BU08 0012010 319	12	18	25	3	10
BU08 0012012 320	12	18	25	3	12
BU08 0012015 264	12	18	25	3	15
BU08 0012020 265	12	18	25	3	20
BU08 0012025 321	12	18	25	3	25
BU08 0012030 322	12	18	25	3	30
BU08 0013010 323	13	19	26	3	10
BU08 0013012 324	13	19	26	3	12
BU08 0013015 266	13	19	26	3	15
BU08 0013020 267	13	19	26	3	20
BU08 0013025 325	13	19	26	3	25
BU08 0013030 326	13	19	26	3	30
BU08 0014015 268	14	20	27	3	15
BU08 0014020 269	14	20	27	3	20
BU08 0014030 327	14	20	27	3	25
BU08 0015010 328	15	21	28	3	10
BU08 0015012 329	15	21	28	3	12
BU08 0015015 270	15	21	28	3	15
BU08 0015020 271	15	21	28	3	20
BU08 0015025 272	15	21	28	3	25
BU08 0015030 330	15	21	28	3	30

KOD / CODE / CÓDIGO	Ød E7	Ød₁ r6	Ød₂	l₁ -0.1	l -0.1 / -0.3
BU08 0016012 331	16	22	29	3	12
BU08 0016015 273	16	22	29	3	15
BU08 0016018 332	16	22	29	3	18
BU08 0016020 274	16	22	29	3	20
BU08 0016023 333	16	22	29	3	23
BU08 0016025 275	16	22	29	3	25
BU08 0016030 317	16	22	29	3	30
BU08 0016035 334	16	22	29	3	35
BU08 0016040 335	16	22	29	3	40
BU08 0018015 336	18	24	32	3	15
BU08 0018020 337	18	24	32	3	20
BU08 0018025 338	18	24	32	3	25
BU08 0018030 339	18	24	32	3	30
BU08 0018035 340	18	24	32	3	35
BU08 0018040 341	18	24	32	3	40
BU08 0020015 276	20	30	40	5	15
BU08 0020020 277	20	30	40	5	20
BU08 0020025 342	20	30	40	5	25
BU08 0020030 278	20	30	40	5	30
BU08 0020030 343	20	30	40	5	35
BU08 0020040 279	20	30	40	5	40
BU08 0025015 344	25	35	45	5	15
BU08 0025020 280	25	35	45	5	20
BU08 0025025 281	25	35	45	5	25
BU08 0025030 282	25	35	45	5	30
BU08 0025035 345	25	35	45	5	35
BU08 0025040 283	25	35	45	5	40
BU08 0025050 346	25	35	45	5	50
BU08 0030020 347	30	40	50	5	20





Hammadde / Material :
Bronze + Graphite

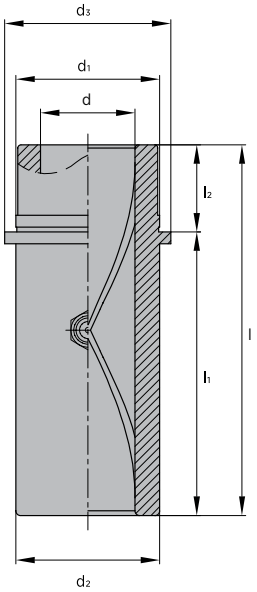
Hardness
HB ≥ 190

KOD / CODE / CÓDIGO	Ød E7	Ød₁ r6	Ød₂	l₁ -0.1	l -0.1 / -0.3
BU08 0030025 348	30	40	50	6	25
BU08 0030030 284	30	40	50	5	30
BU08 0030035 285	30	40	50	5	35
BU08 0030040 286	30	40	50	5	40
BU08 0030050 287	30	40	50	5	50
BU08 003150020 349	31,5	40	50	5	20
BU08 003150030 350	31,5	40	50	5	30
BU08 003150035 351	31,5	40	50	5	35
BU08 003150040 352	31,5	40	50	5	40
BU08 0035020 353	35	45	60	5	20
BU08 0035025 354	35	45	60	5	25
BU08 0035030 288	35	45	60	5	30
BU08 0035035 355	35	45	60	5	35
BU08 0035040 289	35	45	60	5	40
BU08 0035050 290	35	45	60	5	50
BU08 0040020 356	40	50	65	5	20
BU08 0040025 357	40	50	65	5	25
BU08 0040030 291	40	50	65	5	30
BU08 0040035 358	40	50	65	5	35
BU08 0040040 292	40	50	65	5	40
BU08 0040050 293	40	50	65	5	50
BU08 0045030 294	45	55	70	5	30
BU08 0045035 359	45	55	70	5	35
BU08 0045040 295	45	55	70	5	40
BU08 0045050 360	45	55	70	5	50
BU08 0045060 296	45	55	70	5	60
BU08 0050030 297	50	60	75	5	30
BU08 0050035 361	50	60	75	5	35
BU08 0050040 298	50	60	75	5	40

KOD / CODE / CÓDIGO	Ød E7	Ød₁ r6	Ød₂	l₁ -0.1	l -0.1 / -0.3
BU08 0050050 361	50	60	75	5	50
BU08 0050060 299	50	60	75	5	60
BU08 0055040 300	55	65	80	5	40
BU08 0055060 301	55	65	80	5	60
BU08 0060040 302	60	75	90	7,5	40
BU08 0060050 303	60	75	90	7,5	50
BU08 0060080 304	60	75	90	7,5	80
BU08 0065060 362	65	80	95	7,5	60
BU08 0070050 305	70	85	105	7,5	50
BU08 0070080 306	70	85	105	7,5	80
BU08 0075060 307	75	90	110	7,5	60
BU08 0080060 308	80	100	120	10	60
BU08 0080080 309	80	100	120	10	80
BU08 0080100 310	80	100	120	10	100
BU08 0090060 311	90	110	130	10	60
BU08 0090080 312	90	110	130	10	80
BU08 0100080 313	100	120	150	10	80
BU08 0100100 314	100	120	150	10	100
BU08 0120080 315	120	140	170	10	80
BU08 0120100 316	120	140	170	10	100
BU08 0130080 363	130	150	180	10	80
BU08 0130100 364	130	150	180	10	100
BU08 0140080 365	140	160	190	10	80
BU08 0140100 366	140	160	190	10	100
BU08 0150100 367	150	170	200	10	100
BU08 0150120 368	150	170	200	10	120
BU08 0160100 369	160	180	210	10	100
BU08 0160120 370	160	180	210	10	120



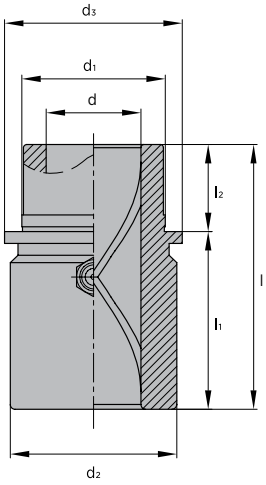
Hammadde / Material :
Hardened Steel



KOD / CODE / CÓDIGO	d	l	l_1	l_2	d_1	d_2	d_3
G213-05-024-098	24	98	75	23	38	44	47
G213-05-025-098	25	98	75	23	38	44	47
G213-05-030-100	30	100	75	25	45	51	54
G213-05-032-100	32	100	75	25	45	51	54
G213-05-038-115	38	115	85	30	54	60	63
G213-05-040-115	40	115	85	30	54	60	63
G213-05-048-135	48	135	100	35	65	75	75
G213-05-050-135	50	135	100	35	65	75	75

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 50, **l=** 135

Sipariş Kodu / Order Code / Código de Pedido:
G213-05-050-135



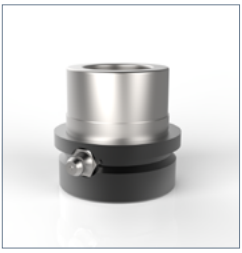


Hammadde / Material :
Hardened Steel

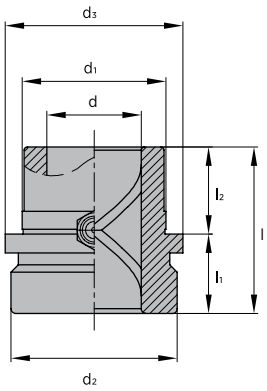
KOD / CODE / CÓDIGO	d	l	l_1	l_2	d_1	d_2	d_3
G213-06-018-050	18	50	32	18	28	28	32
G213-06-019-050	19	50	32	18	28	28	32
G213-06-024-070	24	70	47	23	38	44	47
G213-06-025-070	25	70	47	23	38	44	47
G213-06-030-075	30	75	50	25	45	51	54
G213-06-032-075	32	75	50	25	45	51	54
G213-06-038-080	38	80	50	30	54	60	63
G213-06-040-080	40	80	50	30	54	60	63
G213-06-048-085	48	85	50	35	65	73	75
G213-06-050-085	50	85	50	35	65	73	75
G213-06-063-100	63	100	52	48	81	90	93
G213-06-080-100	80	100	52	48	100	110	115

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 50, **l=** 85

Sipariş Kodu / Order Code / Código de Pedido:
G213-06-050-085



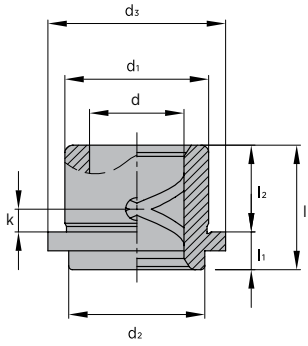
Hammadde / Material :
Hardened Steel



KOD / CODE / CÓDIGO	d	l	l_1	l_2	d_1	d_2	d_3
G213-07-018-034	18	34	16	18	28	28	32
G213-07-019-034	19	34	16	18	28	28	32
G213-07-024-044	24	44	21	23	38	44	47
G213-07-025-044	25	44	21	23	38	44	47
G213-07-030-046	30	46	21	25	45	51	54
G213-07-032-046	32	46	21	25	45	51	54
G213-07-038-051	38	51	21	30	54	60	63
G213-07-040-051	40	51	21	30	54	60	63
G213-07-048-060	48	60	25	35	65	73	75
G213-07-050-060	50	60	25	35	65	73	75
G213-07-063-075	63	75	27	48	81	90	93
G213-07-080-075	80	75	27	48	100	110	115

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 50, **l=** 60

Sipariş Kodu / Order Code / Código de Pedido:
G213-07-050-060





Hammadde / Material :
Hardened Steel

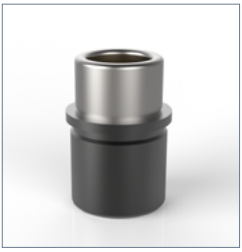
KOD / CODE / CÓDIGO	d	l	l_1	l_2	d_1	d_2	d_3	k
G213-08-018-028	18	28	10	18	28	28	32	6
G213-08-019-028	19	28	10	18	28	28	32	6
G213-08-024-033	24	33	10	23	38	36	47	6
G213-08-025-033	25	33	10	23	38	36	47	6
G213-08-030-040	30	40	10	30	45	43	54	10
G213-08-032-040	32	40	10	30	45	43	54	10
G213-08-038-052	38	52	14	38	54	48	63	10
G213-08-040-052	40	52	14	38	54	48	63	10
G213-08-048-062	48	62	14	48	65	64	75	20
G213-08-050-062	50	62	14	48	65	64	75	20
G213-08-063-075	63	75	14	61	81	79	93	20
G213-08-080-092	80	92	14	78	100	99	115	32

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 25, **l=** 33

Sipariş Kodu / Order Code / Código de Pedido:
G213-08-025-033

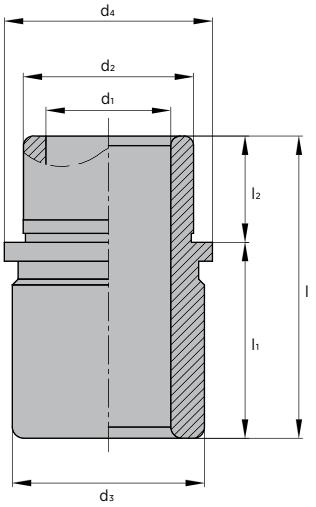
G215-03

Sökülebilir Bilyalı Yatak Burcu
Demountable Ball Bearing Bushings
Casquillos de Rodamiento de Bolas Desmontables



Hammadde / Material :
Hardened Steel

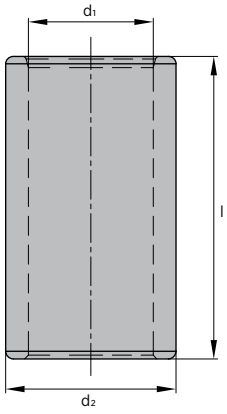
d*= Post Diameter



KOD / CODE / CÓDIGO	d*	l	l_1	l_2	d_1	d_2	d_3	d_4
G215-03-025-065	25	65	35	30	33	45	50.8	55
G215-03-025-080	25	80	50	30	33	45	50.8	55
G215-03-025-095	25	95	65	30	33	45	50.8	55
G215-03-032-080	32	80	50	30	40	54	55.88	64
G215-03-032-095	32	95	65	30	40	54	55.88	64
G215-03-032-110	32	110	80	30	40	54	55.88	64
G215-03-040-080	40	80	50	30	48	65	73.03	77
G215-03-040-095	40	95	65	30	48	65	73.03	77
G215-03-040-110	40	110	80	30	48	65	73.03	77
G215-03-040-130	40	130	100	30	48	65	73.03	77
G215-03-050-110	50	110	60	50	62	81	85.73	95
G215-03-050-130	50	130	80	50	62	81	85.73	95
G215-03-050-150	50	150	100	50	62	81	85.73	95
G215-03-050-170	50	170	120	50	62	81	85.73	95
G215-03-063-150	63	150	100	50	75	95	103.99	109
G215-03-063-170	63	170	120	50	75	95	103.99	109
G215-03-063-190	63	190	140	50	75	95	103.99	109
G215-03-080-161	80	161	100	61	92	108	114.30	125
G215-03-080-178	80	178	117	61	92	108	114.30	125
G215-03-080-201	80	201	140	61	92	108	114.30	125

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 25, **l=** 95

Sipariş Kodu / Order Code / Código de Pedido:
G215-03-025-095





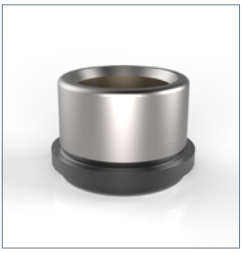
Hammadde / Material :
Hardened Steel

d*= Post Diameter

KOD / CODE / CÓDIGO	d*	l	d_1	d_2
G215-04-025-065	25	65	33	45
G215-04-025-080	25	80	33	45
G215-04-025-095	25	95	33	45
G215-04-025-110	25	110	33	45
G215-04-025-130	25	130	33	45
G215-04-032-080	32	80	40	54
G215-04-032-095	32	95	40	54
G215-04-032-110	32	110	40	54
G215-04-032-130	32	130	40	54
G215-04-032-150	32	150	40	54
G215-04-032-170	32	170	40	54
G215-04-040-080	40	80	48	65
G215-04-040-095	40	95	48	65
G215-04-040-110	40	110	48	65
G215-04-040-130	40	130	48	65
G215-04-040-150	40	150	48	65
G215-04-040-170	40	170	48	65
G215-04-040-190	40	190	48	65
G215-04-040-215	40	215	48	65
G215-04-050-110	50	110	62	81
G215-04-050-130	50	130	62	81
G215-04-050-150	50	150	62	81
G215-04-050-170	50	170	62	81
G215-04-050-190	50	190	62	81
G215-04-050-215	50	215	62	81
G215-04-050-240	50	240	62	81
G215-04-050-265	50	265	62	81
G215-04-063-150	63	150	75	95
G215-04-063-170	63	170	75	95
G215-04-063-190	63	190	75	95
G215-04-063-215	63	215	75	95
G215-04-063-240	63	240	75	95
G215-04-063-265	63	265	75	95
G215-04-080-150	80	150	92	112
G215-04-080-170	80	170	92	112
G215-04-080-190	80	190	92	112
G215-04-080-215	80	215	92	112
G215-04-080-240	80	240	92	112
G215-04-080-265	80	265	92	112

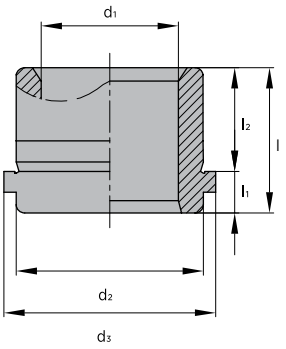
Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 80, **l=** 190

Sipariş Kodu / Order Code / Código de Pedido:
G215-04-080-190



Hammadde / Material :
Hardened Steel

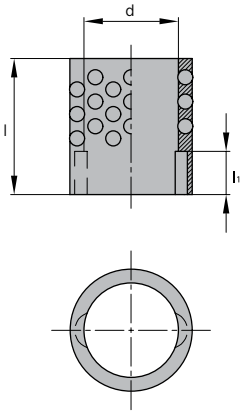
d*= Post Diameter



KOD / CODE / CÓDIGO	d*	l	l_1	l_2	d_1	d_2	d_3
G215-05-025-030	25	30	20	10	33	45	51
G215-05-025-035	25	35	25	10	33	45	51
G215-05-032-030	32	30	20	10	40	54	60
G215-05-032-035	32	35	25	10	40	54	60
G215-05-032-042	32	42	32	10	40	54	60
G215-05-040-039	40	39	29	10	48	65	75
G215-05-040-046	40	46	36	10	48	65	75
G215-05-040-054	40	54	44	10	48	65	75
G215-05-050-046	50	46	36	10	62	81	91
G215-05-050-054	50	54	44	10	62	81	91

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 40, **l=** 39

Sipariş Kodu / Order Code / Código de Pedido:
G215-05-040-039





Hammadde / Material :
Hardened Steel
Aluminum Alloy

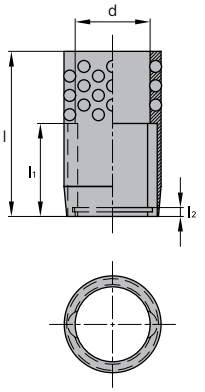
KOD / CODE / CÓDIGO	d	l	l_1
G216-02-025-036	25	36	11.5
G216-02-025-048	25	48	17.5
G216-02-032-036	32	36	11.5
G216-02-032-048	32	48	17.5
G216-02-040-048	40	48	17.5
G216-02-040-060	40	60	23.5
G216-02-050-070	50	70	28.5
G216-02-050-084	50	84	35.5
G216-02-063-098	63	98	42.4
G216-02-080-098	80	98	42.5

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 40, **l=** 60

Sipariş Kodu / Order Code / Código de Pedido:
G216-02-040-060



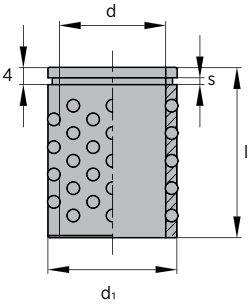
Hammadde / Material :
Hardened Steel
Aluminum Alloy



KOD / CODE / CÓDIGO	d	l	l_1	l_2
G216-03-025-055	25	55	31	4.2
G216-03-025-070	25	70	40	4.2
G216-03-025-090	25	90	47	4.2
G216-03-025-100	25	100	55	4.2
G216-03-025-110	25	110	65	4.2
G216-03-032-070	32	70	40	4.2
G216-03-032-090	32	90	47	4.2
G216-03-032-105	32	105	55	4.2
G216-03-032-115	32	115	65	4.2
G216-03-032-125	32	125	75	4.2
G216-03-032-135	32	135	85	4.2
G216-03-040-070	40	70	40	5.8
G216-03-040-085	40	85	48	5.8
G216-03-040-105	40	105	56	5.8
G216-03-040-115	40	115	66	5.8
G216-03-040-125	40	125	76	5.8
G216-03-040-135	40	135	86	5.8
G216-03-040-145	40	145	96	5.8
G216-03-040-155	40	155	107	5.8
G216-03-050-105	50	105	56	7.0
G216-03-050-120	50	120	65	7.0
G216-03-050-140	50	140	76	7.0
G216-03-050-150	50	150	86	7.0
G216-03-050-160	50	160	96	7.0
G216-03-050-170	50	170	108	7.0
G216-03-050-185	50	185	121	7.0
G216-03-050-195	50	195	133	7.0
G216-03-063-145	63	145	76	7.0
G216-03-063-165	63	165	86	7.0
G216-03-063-180	63	180	96	7.0
G216-03-063-190	63	190	107	7.0
G216-03-063-205	63	205	121	7.0
G216-03-063-215	63	215	132	7.0
G216-03-080-145	80	145	76	8.5
G216-03-080-165	80	165	86	8.5
G216-03-080-180	80	180	96	8.5
G216-03-080-190	80	190	107	8.5
G216-03-080-205	80	205	121	8.5
G216-03-080-215	80	215	132	8.5

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 40, **l=** 145

Sipariş Kodu / Order Code / Código de Pedido:
G216-03-040-145





Hammadde / Material :
Hardened Steel

KOD / CODE / CÓDIGO	d	l	d_1	s
G216-04-025-040	25	40	30.3	1.6
G216-04-025-052	25	52	30.3	1.6
G216-04-032-040	32	40	36	1.9
G216-04-032-052	32	52	36	1.9
G216-04-040-052	40	52	45.5	1.9
G216-04-040-064	40	64	45.5	1.9
G216-04-050-074	50	74	57	2.2
G216-04-050-088	50	88	57	2.2

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 40, **l=** 64

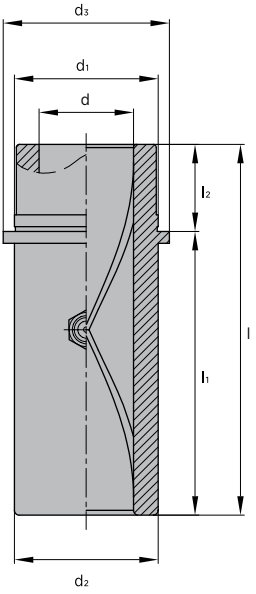
Sipariş Kodu / Order Code / Código de Pedido:
G216-04-040-064

G217-03

Sökülebilir Bronz Geçme Burçlar
Demountable Bronze-Plated Bushings
Bujes Desmontables con Recubrimiento de Bronce



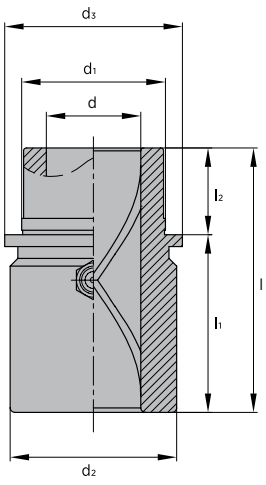
Hammadde / Material :
Hardened Steel
Bronze-Plated



KOD / CODE / CÓDIGO	d	l	l_1	l_2	d_1	d_2	d_3
G217-03-024-098	24	98	75	23	38	44	47
G217-03-025-098	25	98	75	23	38	44	47
G217-03-030-100	30	100	75	25	45	51	54
G217-03-032-100	32	100	75	25	45	51	54
G217-03-038-115	38	115	85	30	54	60	63
G217-03-040-115	40	115	85	30	54	60	63
G217-03-048-135	48	135	100	35	65	75	75
G217-03-050-135	50	135	100	35	65	75	75

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 40, **l=** 115

Sipariş Kodu / Order Code / Código de Pedido:
G217-03-040-115



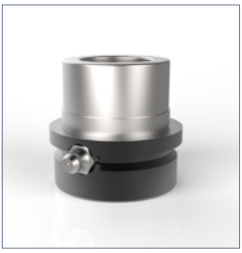


Hammadde / Material :
Hardened Steel
Bronze-Plated

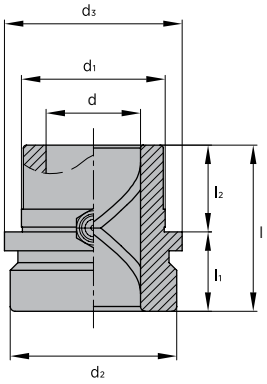
KOD / CODE / CÓDIGO	d	l	l_1	l_2	d_1	d_2	d_3
G217-04-018-050	18	50	32	18	28	28	32
G217-04-019-050	19	50	32	18	28	28	32
G217-04-024-070	24	70	47	23	38	44	47
G217-04-025-070	25	70	47	23	38	44	47
G217-04-030-075	30	75	50	25	45	51	54
G217-04-032-075	32	75	50	25	45	51	54
G217-04-038-080	38	80	50	30	54	60	63
G217-04-040-080	40	80	50	30	54	60	63
G217-04-048-085	48	85	50	35	65	73	75
G217-04-050-085	50	85	50	35	65	73	75
G217-04-063-100	63	100	52	48	81	90	93
G217-04-080-100	80	100	52	48	100	110	115

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 40, **l=** 80

Sipariş Kodu / Order Code / Código de Pedido:
G217-04-040-080



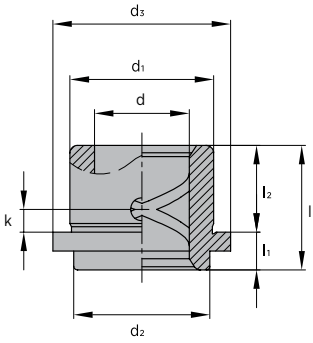
Hammadde / Material :
Hardened Steel
Bronze-Plated

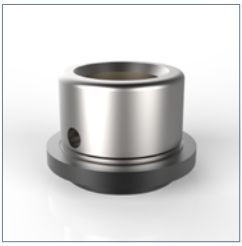


KOD / CODE / CÓDIGO	d	l	l_1	l_2	d_1	d_2	d_3
G217-05-018-034	18	34	16	18	28	28	32
G217-05-019-034	19	34	16	18	28	28	32
G217-05-024-044	24	44	21	23	38	44	47
G217-05-025-044	25	44	21	23	38	44	47
G217-05-030-046	30	46	21	25	45	51	54
G217-05-032-046	32	46	21	25	45	51	54
G217-05-038-051	38	51	21	30	54	60	63
G217-05-040-051	40	51	21	30	54	60	63
G217-05-048-060	48	60	25	35	65	73	75
G217-05-050-060	50	60	25	35	65	73	75
G217-05-063-075	63	75	27	48	81	90	93
G217-05-080-075	80	75	27	48	100	110	115

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 40, **l=** 51

Sipariş Kodu / Order Code / Código de Pedido:
G217-05-040-051





Hammadde / Material :
Hardened Steel
Bronze-Plated

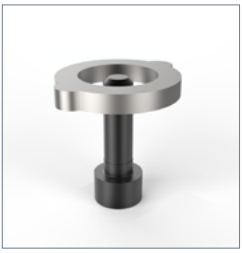
KOD / CODE / CÓDIGO	d	l	l_1	l_2	d_1	d_2	d_3	k
G217-06-018-028	18	28	10	18	28	28	32	6
G217-06-019-028	19	28	10	18	28	28	32	6
G217-06-024-033	24	33	10	23	38	36	47	6
G217-06-025-033	25	33	10	23	38	36	47	6
G217-06-030-040	30	40	10	30	45	43	54	10
G217-06-032-040	32	40	10	30	45	43	54	10
G217-06-038-052	38	52	14	38	54	48	63	10
G217-06-040-052	40	52	14	38	54	48	63	10
G217-06-048-062	48	62	14	48	65	64	75	20
G217-06-050-062	50	62	14	48	65	64	75	20
G217-06-063-075	63	75	14	61	81	79	93	20
G217-06-080-092	80	92	14	78	100	99	115	32

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 40, **l=** 52

Sipariş Kodu / Order Code / Código de Pedido:
G217-06-040-052

A101-17

Bilyalı Burç Pul Grubu Tip I
Ball Cage Washer Assembly Type I
Conjunto de Arandela Para Jaula de Bolas

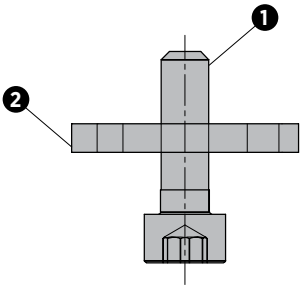


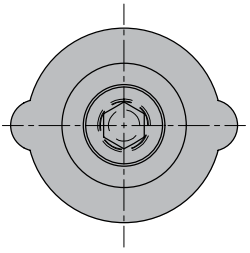
Hammadde / Material :

1 DIN 933

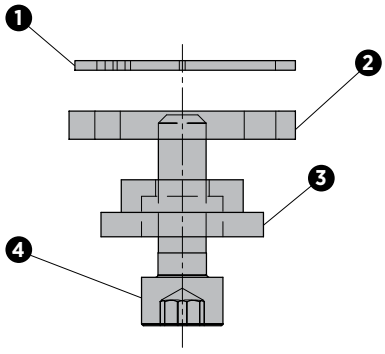
2 Steel

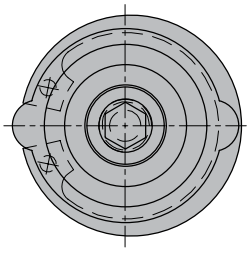
d*= Post Diameter





SET KODU / SET CODE / CÓDIGO del CONJUNTO	d*	Part 1	Part 2
A101-17-025	25	C-M6X20-DIN933	A101-17-0251
A101-17-032	32	C-M6X20-DIN933	A101-17-0321
A101-17-040	40	C-M10X25-DIN933	A101-17-0401
A101-17-050	50	C-M10X25-DIN933	A101-17-0501
A101-17-063	63	C-M10X25-DIN933	A101-17-0631
A101-17-080	80	C-M10X25-DIN933	A101-17-0801







Hammadde / Material :

1 DIN 472

2 Steel

3 Steel

4 DIN 933

d*= Post Diameter

SET KODU / SET CODE / CÓDIGO del CONJUNTO	d*	Part 1	Part 2	Part 3	Part 4
A101-18-025	25	A101-18-0252	A101-18-0251	A101-18-1	C-M6X20-DIN933
A101-18-032	32	A101-18-0322	A101-18-0321	A101-18-1	C-M6X20-DIN933
A101-18-040	40	A101-18-0402	A101-18-0401	A101-18-2	C-M10X25-DIN933
A101-18-050	50	A101-18-0502	A101-18-0501	A101-18-2	C-M10X25-DIN933
A101-18-063	63	A101-18-0632	A101-18-0631	A101-18-2	C-M10X25-DIN933
A101-18-080	80	A101-18-0802	A101-18-0801	A101-18-2	C-M10X25-DIN933

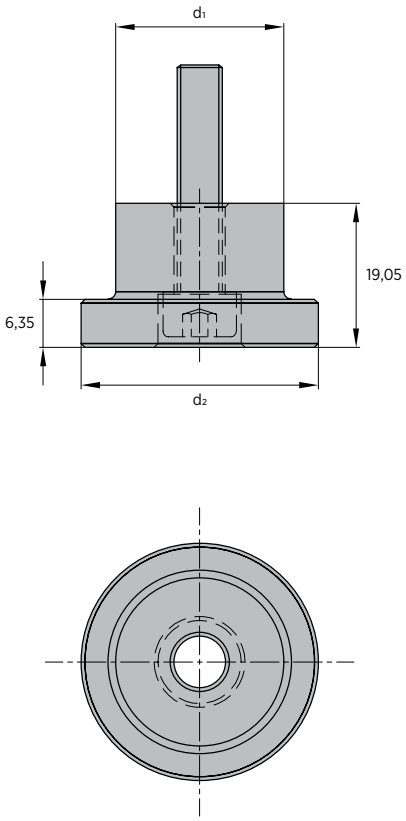
A101-21

Kafes Durdurucu Uç Kapağı
Cage Stopper End Cap
Tapa Final de Tope de la Jaula



Hammadde / Material :
Hardened Steel

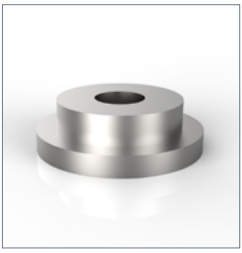
d*= Post Diameter

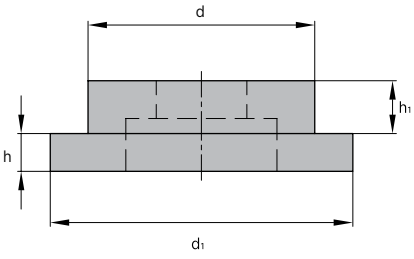


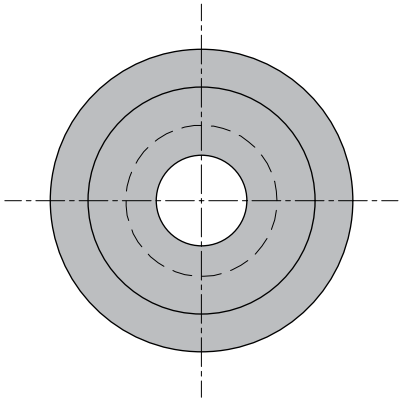
KOD / CODE / CÓDIGO	d*	d_1	d_2	M
A101-21-025	25	22.23	31.75	M6
A101-21-032	32	28.58	38.10	M6
A101-21-040	40	34.93	44.45	M10
A101-21-050	50	47.63	60.33	M10
A101-21-063	63	60.33	73.03	M10
A101-21-080	80	73.03	85.73	M10

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 80

Sipariş Kodu / Order Code / Código de Pedido:
A101-21-080

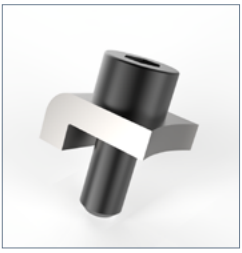






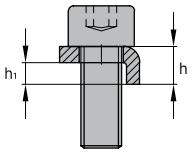
Hammadde / Material :
Hardened Steel

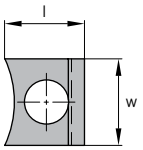
KOD / CODE / CÓDIGO	d	d_1	h	h_1
A101-22-001	18	25	3.30	4.00
A101-22-002	24	32	5.00	4.20
A101-22-003	30	40	5.00	7.00
A101-22-004	38	50	5.00	10.00
A101-22-005	48	63	5.00	13.00
A101-22-006	63	76	5.00	19.00
A101-22-007	80	93	5.00	25.00



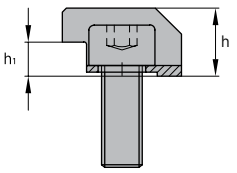
Hammadde / Material :
Hardened Steel

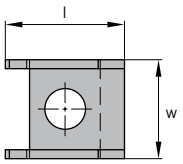
Form A



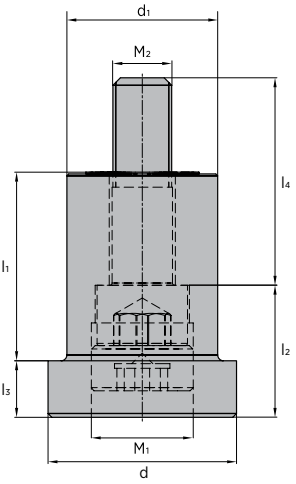


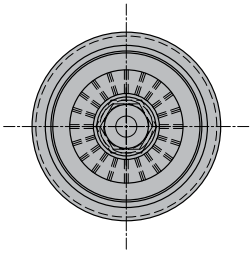
Form B





KOD / CODE / CÓDIGO	Form	w	l	h	h1	Screw
A101-23-001	A	15.90	14.30	8.70	4.90	M6
A101-23-002	A	15.90	19.80	9.50	4.90	M8
A101-23-003	A	15.90	19.60	10.90	6.30	M8
A101-23-004	A	12.70	12.30	5.60	3.20	M6
A101-23-005	B	14.50	17.50	10.00	5.00	M6
A101-23-006	B	18.90	24.60	13.00	7.90	M8
A101-23-007	B	18.90	24.60	13.00	6.00	M8
A101-23-008	B	23.50	27.90	15.50	6.00	M10







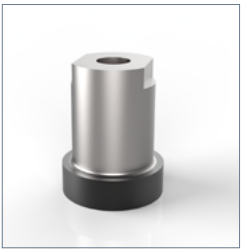
Hammadde / Material :
AISI 1144 Steel

Hardened
HRC 28 ÷ 34

KOD / CODE / CÓDIGO	d	d1	l1	l2	l3	l4	Max.Load (kN)	M1	M2
A104-01-050-030	50	40	30	35	15	40	192	M27x2	M16x2
A104-01-050-040	50	40	40	35	15	45	192	M27x2	M16x2
A104-01-050-045	50	40	45	35	15	50	192	M27x2	M16x2
A104-01-050-050	50	40	50	35	15	55	192	M27x2	M16x2
A104-01-050-060	50	40	60	35	15	65	192	M27x2	M16x2
A104-01-050-065	50	40	65	35	15	70	192	M27x2	M16x2
A104-01-050-070	50	40	70	35	15	75	192	M27x2	M16x2
A104-01-050-075	50	40	75	35	15	75	192	M27x2	M16x2
A104-01-050-090	50	40	90	35	15	100	192	M27x2	M16x2
A104-01-050-100	50	40	100	35	15	110	192	M27x2	M16x2
A104-01-050-115	50	40	115	35	15	120	192	M27x2	M16x2
A104-01-050-130	50	40	130	35	15	140	192	M27x2	M16x2
A104-01-050-140	50	40	140	35	15	150	192	M27x2	M16x2
A104-01-050-160	50	40	160	35	15	170	192	M27x2	M16x2
A104-01-070-040	70	60	40	40	15	45	299	M36x3	M20x2.5
A104-01-070-045	70	60	45	40	15	50	299	M36x3	M20x2.5
A104-01-070-050	70	60	50	40	15	55	299	M36x3	M20x2.5
A104-01-070-060	70	60	60	40	15	65	299	M36x3	M20x2.5
A104-01-070-065	70	60	65	40	15	70	299	M36x3	M20x2.5
A104-01-070-070	70	60	70	40	15	75	299	M36x3	M20x2.5
A104-01-070-075	70	60	75	40	15	75	299	M36x3	M20x2.5
A104-01-070-090	70	60	90	40	15	100	299	M36x3	M20x2.5
A104-01-070-100	70	60	100	40	15	110	299	M36x3	M20x2.5
A104-01-070-115	70	60	115	40	15	120	299	M36x3	M20x2.5
A104-01-070-130	70	60	130	40	15	140	299	M36x3	M20x2.5
A104-01-070-140	70	60	140	40	15	150	299	M36x3	M20x2.5
A104-01-070-160	70	60	160	40	15	170	299	M36x3	M20x2.5

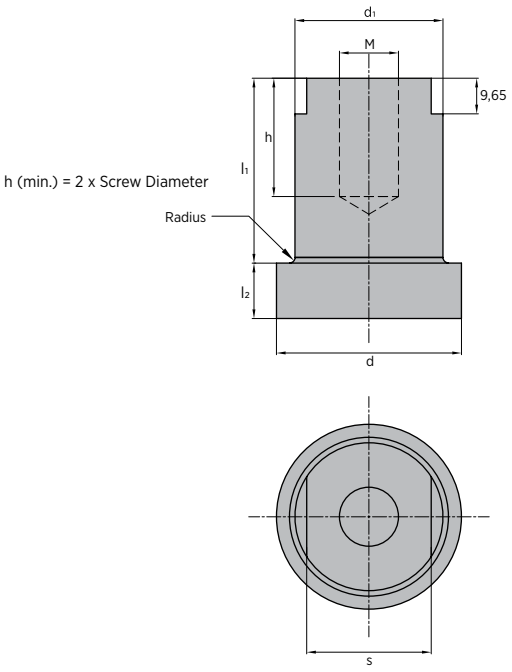
A104-02

Ters Montaj Baskı Plakası Tutucuları
Reverse Mount Pad Retainer
Retenedores de Placa - Montaje Inverso



Hammadde / Material :
AISI 1144 Steel

Hardened
HRC 28 ÷ 34



KOD / CODE / CÓDIGO	d	d_1	l_1	l_2	s	M	Max. Load (kN)
A104-02-050-030	50	40	30	15	33.65	M16 x 2.0	192
A104-02-050-040	50	40	40	15	33.65	M16 x 2.0	192
A104-02-050-045	50	40	45	15	33.65	M16 x 2.0	192
A104-02-050-050	50	40	50	15	33.65	M16 x 2.0	192
A104-02-050-060	50	40	60	15	33.65	M16 x 2.0	192
A104-02-050-065	50	40	65	15	33.65	M16 x 2.0	192
A104-02-050-070	50	40	70	15	33.65	M16 x 2.0	192
A104-02-050-075	50	40	75	15	33.65	M16 x 2.0	192
A104-02-050-090	50	40	90	15	33.65	M16 x 2.0	192
A104-02-050-100	50	40	100	15	33.65	M16 x 2.0	192
A104-02-050-115	50	40	115	15	33.65	M16 x 2.0	192
A104-02-050-130	50	40	130	15	33.65	M16 x 2.0	192
A104-02-050-140	50	40	140	15	33.65	M16 x 2.0	192
A104-02-050-160	50	40	160	15	33.65	M16 x 2.0	192
A104-02-070-040	70	60	40	15	53.70	M20 x 2.5	299
A104-02-070-045	70	60	45	15	53.70	M20 x 2.5	299
A104-02-070-050	70	60	50	15	53.70	M20 x 2.5	299
A104-02-070-060	70	60	60	15	53.70	M20 x 2.5	299
A104-02-070-065	70	60	65	15	53.70	M20 x 2.5	299
A104-02-070-070	70	60	70	15	53.70	M20 x 2.5	299
A104-02-070-075	70	60	75	15	53.70	M20 x 2.5	299
A104-02-070-090	70	60	90	15	53.70	M20 x 2.5	299
A104-02-070-100	70	60	100	15	53.70	M20 x 2.5	299
A104-02-070-115	70	60	115	15	53.70	M20 x 2.5	299
A104-02-070-130	70	60	130	15	53.70	M20 x 2.5	299
A104-02-070-140	70	60	140	15	53.70	M20 x 2.5	299
A104-02-070-160	70	60	160	15	53.70	M20 x 2.5	299

NOTLAR / NOTES / NOTAS

NOTLAR / NOTES / NOTAS



2 KILAVUZ KOLONLAR, BURÇLAR VE AKSESUARLARI
PINS & BUSHINGS & ACCESSORIES
COLUMNAS GUÍA, BUJES Y ACCESORİOS

INCH

NOTLAR / NOTES / NOTAS

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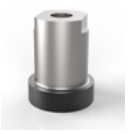
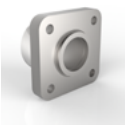
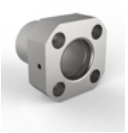
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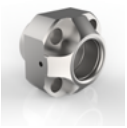
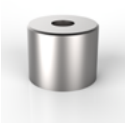
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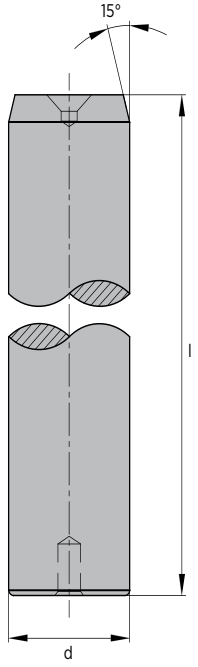
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Hammadde / Material :
Hardened Steel

d	l																				
1	3 1/4	3 3/4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	-	-	-	-	-
1 1/4	4 1/4	4 3/4	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	-	-	-	-	-	-
1 1/2	4 1/4	5	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	10 1/2	11	11 1/2	12	12 1/2	13	14	-	-
1 3/4	5	5 3/4	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	10 1/2	11	11 1/2	12	12 1/2	13	14	15	17	-	-
2	5 3/4	6 1/2	7 1/4	7 1/2	7 3/4	8	8 1/2	9	9 1/2	10	10 1/2	11	11 1/2	12	12 1/2	13	14	15	16	17	18
2 1/2	8	8 3/4	9 1/2	10	11	12	13	14	17	18	20	-	-	-	-	-	-	-	-	-	-
3	8 1/2	9 1/4	10	11	12	13	14	17	20	-	-	-	-	-	-	-	-	-	-	-	-

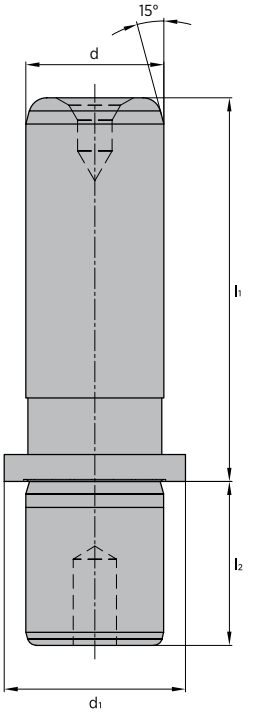
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Sipariş Kodu / Order Code / Código de Pedido:
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2



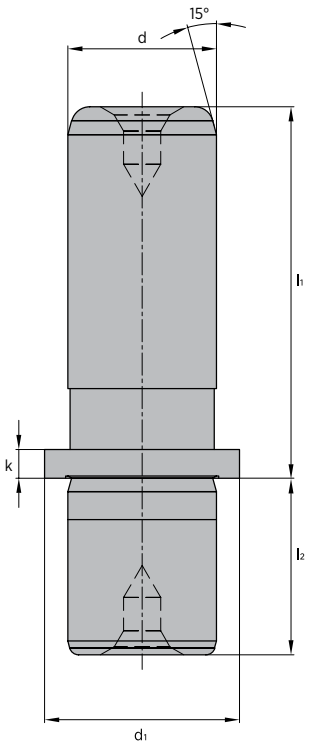
Hammadde / Material :
Hardened Steel



d (in)	l1 (in)																							l2	d1
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1 1/4	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.75	9.75	10.75	-	-	-	-	-	-	-	1.188	1.560
1 1/2	3.25	3.50	3.75	4.00	4.25	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.50	-	-	1.438	1.873
1 3/4	3.75	4.00	4.25	4.50	4.75	5.25	5.75	6.25	6.75	7.25	7.75	8.25	8.75	9.25	9.75	10.25	10.75	11.25	12.25	13.25	14.25	15.25	-	1.688	2.25
2	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	12.00	13.00	14.00	15.00	16.00	1.938	2.5
2 1/2	6.00	6.50	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	18.00	-	-	-	-	-	-	-	-	-	-	-	1.938	3.031
3	6.00	6.50	7.50	8.50	9.50	10.50	11.50	12.50	13.50	14.50	17.50	-	-	-	-	-	-	-	-	-	-	-	-	2.438	3.5

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l1=** 3.25

Sipariş Kodu / Order Code / Código de Pedido:
G201-03-100-325





Hammadde / Material :
Hardened Steel

Hard Chrome Coated

d (in)	l₁ (in)																	l₂ (in)	d₁ (in)	k (in)
7/8	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5 1/4	5 3/4	6 1/4	6 3/4	-	-	-	0.938	1.187	0.193
1	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	-	1.188	1.312	0.193
1 1/4	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 3/4	5 1/4	5 3/4	6 1/4	6 3/4	7 1/4	8 1/4	9 1/4	10 1/4	1.188	1.562	0.25
1 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 3/4	5 1/4	5 3/4	6 1/4	6 3/4	7 1/4	8 1/4	9 1/4	10 1/4	1.438	1.875	0.25
1 3/4	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7 1/2	8 1/2	9 1/2	11 1/2	-	-	-	-	-	1.688	2.25	0.25
2	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	14 1/2	17 1/2	-	-	1.938	2.5	0.25
2 1/2	4 1/2	5	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	13 1/2	16 1/2	-	-	-	-	-	-	1.938	3.031	0.25
3	4 1/2	5	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	13 1/2	16 1/2	-	-	-	-	-	-	2.438	3.5	0.25

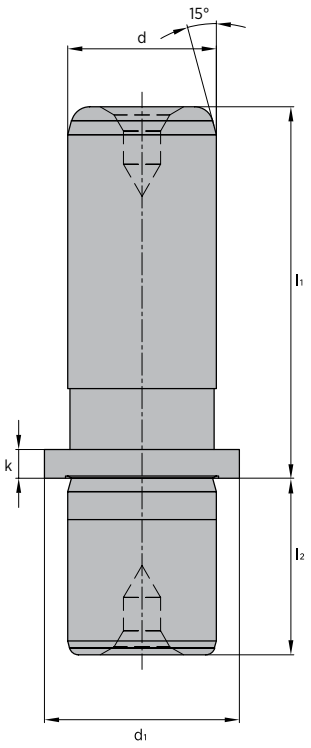
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Sipariş Kodu / Order Code / Código de Pedido:
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2



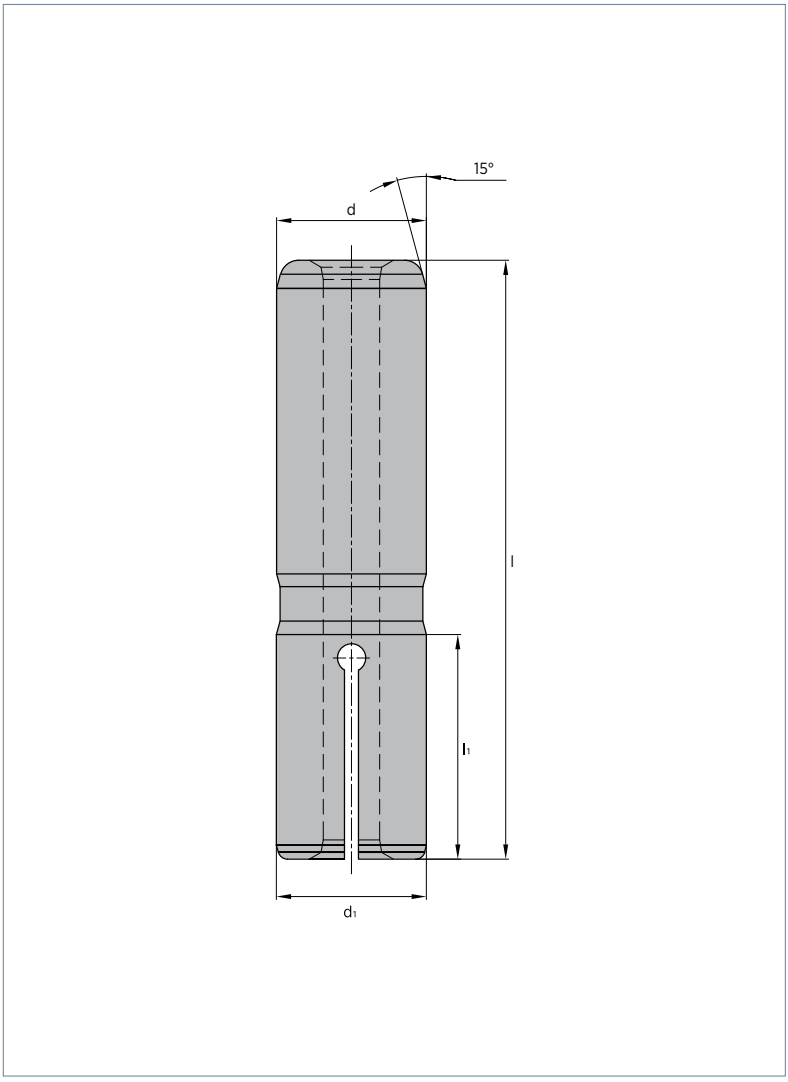
Hammadde / Material :
Hardened Steel



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7/8	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5 1/4	5 3/4	6 1/4	6 3/4	-	-	-	0.938	1.187	0.193
1	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	-	1.188	1.312	0.193
1 1/4	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 3/4	5 1/4	5 3/4	6 1/4	6 3/4	7 1/4	8 1/4	9 1/4	10 1/4	1.188	1.562	0.25
1 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 3/4	5 1/4	5 3/4	6 1/4	6 3/4	7 1/4	8 1/4	9 1/4	10 1/4	1.438	1.875	0.25
1 3/4	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7 1/2	8 1/2	9 1/2	11 1/2	-	-	-	-	-	1.688	2.25	0.25
2	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	14 1/2	17 1/2	-	-	1.938	2.5	0.25
2 1/2	4 1/2	5	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	13 1/2	16 1/2	-	-	-	-	-	-	1.938	3.031	0.25
3	4 1/2	5	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	13 1/2	16 1/2	-	-	-	-	-	-	2.438	3.5	0.25

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l1=** 4 1/4

Sipariş Kodu / Order Code / Código de Pedido:
G201-06-100-414





Hammadde / Material :
Hardened Steel

Hard Chrome Coated

d (in)	l (in)																	d_1 (in)	l_1 (in)
1	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	-		1	1 1/2
1 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12		1 1/4	1 3/4
1 1/2	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12		1 1/2	1 3/4
1 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	14	-	-	-	-	-		1 3/4	2 1/4
2	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	13	14	17	20	-	-		2	2 1/2

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 2, **l=** 8 1/2

Sipariş Kodu / Order Code / Código de Pedido:
G202-12-200-812

2

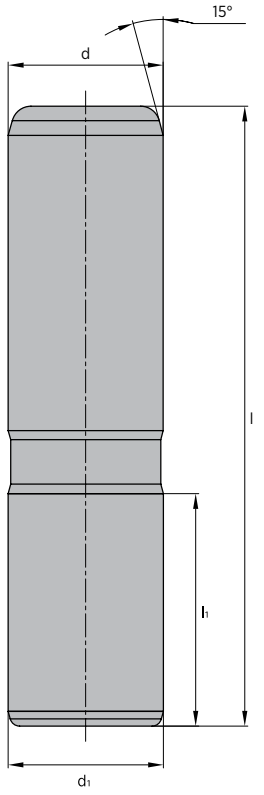


Hammadde / Material :
Hardened Steel

Hard Chrome Coated

*G202-13-012-312,
G202-13-034-312 for l_1=1

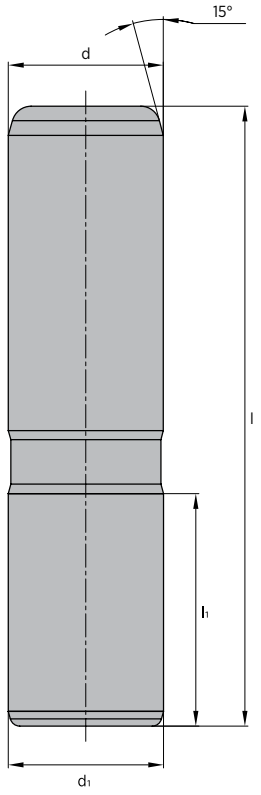
** d=1 ½" : l_1= 1 ¾ " when l ≤ 7" ;
l_1= 2" when l ≥ 7 ½"



d (in)	l (in)																			d_1 (in)	l_1 (in)
1/2	3 1/2	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	-	-	-	-	-	-	-	-	-	-	-	0.5017	1 1/8*
5/8	4	4 1/4	4 1/2	4 3/4	5	5 1/2	6	-	-	-	-	-	-	-	-	-	-	-	-	0.6267	1 1/8
3/4	3 1/2	4	4 1/4	4 1/2	4 3/4	5	5 1/2	6	-	-	-	-	-	-	-	-	-	-	-	0.7520	1 1/8*
7/8	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	-	-	-	-	-	-	0.8770	1 1/4
1	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	-	1.0020	1 1/2
1 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	-	-	-	1.2525	1 3/4
1 1/2	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	-	-	-	1.5025	1 3/4-2**
1 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	14	-	-	-	-	-	-	-	-	1.7525	2 1/4
2	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	13	14	17	20	-	-	-	-	-	2.0025	2 1/2
2 1/2	8	8 1/2	9	10	11	12	13	14	17	20	-	-	-	-	-	-	-	-	-	2.5030	3 1/2
3	8	8 1/2	9	10	11	12	13	14	17	20	-	-	-	-	-	-	-	-	-	3.0030	3 1/2

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 4 1/4

Sipariş Kodu / Order Code / Código de Pedido:
G202-13-100-414





Hammadde / Material :
Hardened Steel

*G202-14-034-312 for l1=1

** d=1 ½" : l_1= 1 ¾ " when l ≤ 7" ;
l_1= 2" when l ≥ 7 ½"

d (in)	l (in)																			d_1 (in)	l_1 (in)
3/4	3 1/2	4	4 1/4	4 1/2	4 3/4	5	5 1/2	6	7	8	-	-	-	-	-	-	-	-	-	0.7520	1 1/8*
7/8	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	-	-	-	-	-	-	0.8770	1 1/4
1	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	-	1.0020	1 1/2
1 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	-	-	-	1.2525	1 3/4
1 1/2	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	13	14	15	1.5025	1 3/4-2**
1 3/4	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	14	-	-	-	-	-	-	-	-	1.7525	2 1/4
2	6	6 1/2	7	7 1/2	8	8 1/2	9	10	11	12	13	14	17	20	-	-	-	-	-	2.0025	2 1/2
2 1/2	8	8 1/2	9	10	11	12	13	14	17	20	-	-	-	-	-	-	-	-	-	2.5030	3 1/2
3	8	8 1/2	9	10	11	12	13	14	17	20	-	-	-	-	-	-	-	-	-	3.0030	3 1/2

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 4 1/4

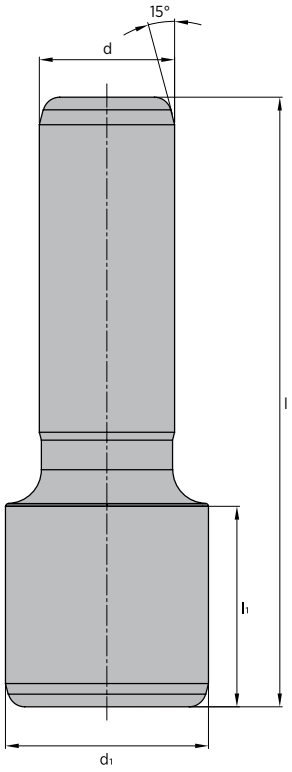
Sipariş Kodu / Order Code / Código de Pedido:
G202-14-100-414

2



Hammadde / Material :
Hardened Steel

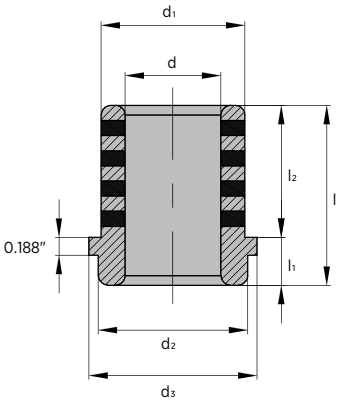
The press fit diameters are 0.0075" oversize to allow grinding stock to fit the bored hole.



d (in)	l (in)									d_1 (in)	l_1 (in)
1	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	-	1 1/2	1 1/2
1 1/4	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	1 3/4	2
1 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	-	-	2	2 3/8
1 3/4	7 1/2	8	8 1/2	9	9 1/2	10	-	-	-	2 1/4	2 7/8
2	8	9	10	11	12	13	-	-	-	2 1/2	3 3/8
2 1/2	9	10	11	12	13	14	-	-	-	3 1/4	3 7/8

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 2, **l=** 8

Sipariş Kodu / Order Code / Código de Pedido:
G202-15-200-800





Hammadde / Material :
Bronze + Graphite

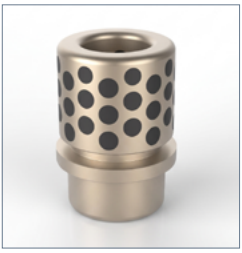
Hardness
HB ≥ 190

KOD / CODE / CÓDIGO	d (in)	l (in)	l1 (in)	l2 (in)	d1 (in)	d2 (in)	d3 (in)
G211-11-100-1875	1	1.875	0.500	1.375	1.5000	1.56	1.750
G211-11-100-2875	1	2.875	0.500	2.375	1.5000	1.56	1.750
G211-11-114-2375	1 1/4	2.375	0.500	1.875	1.7500	1.94	2.12
G211-11-114-3375	1 1/4	3.375	0.500	2.875	1.7500	1.94	2.12
G211-11-112-2375	1 1/2	2.375	0.500	1.875	2.0000	2.18	2.38
G211-11-112-3375	1 1/2	3.375	0.500	2.875	2.0000	2.18	2.38
G211-11-134-2875	1 3/4	2.875	0.500	2.375	2.2500	2.44	2.63
G211-11-134-3875	1 3/4	3.875	0.500	3.375	2.2500	2.44	2.63
G211-11-200-2875	2	2.875	0.500	2.375	2.5000	2.75	2.94
G211-11-200-3875	2	3.875	0.500	3.375	2.5000	2.75	2.94
G211-11-212-300	2 1/2	3.000	0.375	2.625	3.0000	3.18	3.38
G211-11-212-400	2 1/2	4.000	0.375	3.625	3.0000	3.18	3.38
G211-11-212-500	2 1/2	5.000	0.375	4.625	3.0000	3.18	3.38
G211-11-300-300	3	3.000	0.375	2.625	3.5000	3.68	3.88
G211-11-300-400	3	4.000	0.375	3.625	3.5000	3.68	3.88
G211-11-300-500	3	5.000	0.375	4.625	3.5000	3.68	3.88
G211-11-300-600	3	6.000	0.375	5.625	3.5000	3.68	3.88
G211-11-334-700	3 3/4	7.000	0.375	6.625	4.5000	4.68	4.88
G211-11-412-500	4 1/2	5.0000	0.375	4.625	5.5000	5.68	5.88
G211-11-412-800	4 1/2	8.0000	0.375	7.625	5.5000	5.68	5.88

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 2, **l=** 2.875

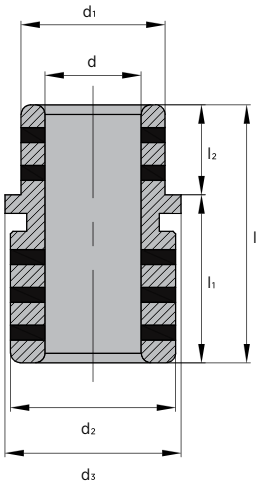
Sipariş Kodu / Order Code / Código de Pedido:
G211-11-200-2875

2



Hammadde / Material :
Bronze + Graphite

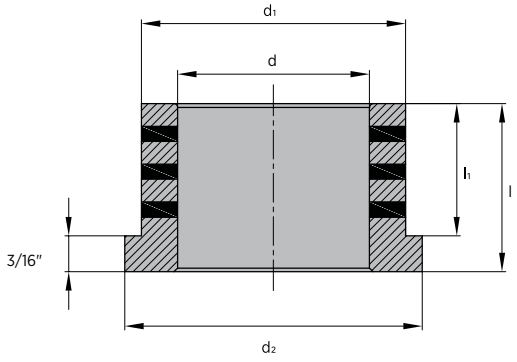
Hardness
HB ≥ 190



KOD / CODE / CÓDIGO	d (in)	l (in)	l1 (in)	l2 (in)	d1 (in)	d2 (in)	d3 (in)
G211-12-100-2688	1	2.688	1.75	0.938	1.50	1.720	1.833
G211-12-114-3125	1 1/4	3.125	2.00	1.125	1.75	1.940	2.093
G211-12-112-3188	1 1/2	3.188	2.00	1.188	2.00	2.190	2.333
G211-12-134-3375	1 3/4	3.375	2.00	1.375	2.25	2.500	2.653
G211-12-200-3625	2	3.625	2.00	1.625	2.50	2.910	3.053
G211-12-212-4375	2 1/2	4.375	2.50	1.875	3.25	3.660	3.803
G211-12-300-4375	3	4.375	2.50	1.875	3.75	4.190	4.273

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 2.688

Sipariş Kodu / Order Code / Código de Pedido:
G211-12-100-2688





Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

KOD / CODE / CÓDIGO	d (in)	l (in) +0.00 / -0.06	l1 (in)	d1 (in)	d2 (in)
G211-13-034-078	3/4	7/8	11/16	1.1255	1.30
G211-13-034-138	3/4	1 3/8	1 3/16	1.1255	1.30
G211-13-034-178	3/4	1 7/8	1 11/16	1.1255	1.30
G211-13-034-238	3/4	2 3/8	2 3/16	1.1255	1.30
G211-13-034-278	3/4	2 7/8	2 11/16	1.1255	1.30
G211-13-034-338	3/4	3 3/8	3 3/16	1.1255	1.30
G211-13-034-378	3/4	3 7/8	3 11/16	1.1255	1.30
G211-13-034-438	3/4	4 3/8	4 3/16	1.1255	1.30
G211-13-034-478	3/4	4 7/8	4 11/16	1.1255	1.30
G211-13-078-078	7/8	7/8	11/16	1.2505	1.43
G211-13-078-138	7/8	1 3/8	1 3/16	1.2505	1.43
G211-13-078-178	7/8	1 7/8	1 11/16	1.2505	1.43
G211-13-078-238	7/8	2 3/8	2 3/16	1.2505	1.43
G211-13-078-278	7/8	2 7/8	2 11/16	1.2505	1.43
G211-13-078-338	7/8	3 3/8	3 3/16	1.2505	1.43
G211-13-078-378	7/8	3 7/8	3 11/16	1.2505	1.43
G211-13-078-438	7/8	4 3/8	4 3/16	1.2505	1.43
G211-13-100-078	1	7/8	11/16	1.3755	1.55
G211-13-100-138	1	1 3/8	1 3/16	1.3755	1.55
G211-13-100-178	1	1 7/8	1 11/16	1.3755	1.55
G211-13-100-238	1	2 3/8	2 3/16	1.3755	1.55
G211-13-100-278	1	2 7/8	2 11/16	1.3755	1.55
G211-13-100-338	1	3 3/8	3 3/16	1.3755	1.55
G211-13-100-378	1	3 7/8	3 11/16	1.3755	1.55
G211-13-100-438	1	4 3/8	4 3/16	1.3755	1.55
G211-13-100-478	1	4 7/8	4 11/16	1.3755	1.55
G211-13-100-578	1	5 7/8	5 11/16	1.3755	1.55
G211-13-112-078	1 1/2	7/8	11/16	2.0005	2.18
G211-13-112-138	1 1/2	1 3/8	1 3/16	2.0005	2.18
G211-13-112-178	1 1/2	1 7/8	1 11/16	2.0005	2.18
G211-13-112-238	1 1/2	2 3/8	2 3/16	2.0005	2.18
G211-13-112-278	1 1/2	2 7/8	2 11/16	2.0005	2.18
G211-13-112-338	1 1/2	3 3/8	3 3/16	2.0005	2.18
G211-13-112-378	1 1/2	3 7/8	3 11/16	2.0005	2.18
G211-13-112-438	1 1/2	4 3/8	4 3/16	2.0005	2.18
G211-13-112-478	1 1/2	4 7/8	4 11/16	2.0005	2.18
G211-13-112-578	1 1/2	5 7/8	5 11/16	2.0005	2.18

KOD / CODE / CÓDIGO	d (in)	l (in) +0.00 / -0.06	l1 (in)	d1 (in)	d2 (in)
G211-13-114-078	1 1/4	7/8	11/16	1.6255	1.80
G211-13-114-138	1 1/4	1 3/8	1 3/16	1.6255	1.80
G211-13-114-178	1 1/4	1 7/8	1 11/16	1.6255	1.80
G211-13-114-238	1 1/4	2 3/8	2 3/16	1.6255	1.80
G211-13-114-278	1 1/4	2 7/8	2 11/16	1.6255	1.80
G211-13-114-338	1 1/4	3 3/8	3 3/16	1.6255	1.80
G211-13-114-378	1 1/4	3 7/8	3 11/16	1.6255	1.80
G211-13-114-438	1 1/4	4 3/8	4 3/16	1.6255	1.80
G211-13-114-478	1 1/4	4 7/8	4 11/16	1.6255	1.80
G211-13-114-578	1 1/4	5 7/8	5 11/16	1.6255	1.80
G211-13-200-138	2	1 3/8	1 3/16	2.5005	2.68
G211-13-200-178	2	1 7/8	1 11/16	2.5005	2.68
G211-13-200-238	2	2 3/8	2 3/16	2.5005	2.68
G211-13-200-278	2	2 7/8	2 11/16	2.5005	2.68
G211-13-200-338	2	3 3/8	3 3/16	2.5005	2.68
G211-13-200-378	2	3 7/8	3 11/16	2.5005	2.68
G211-13-200-438	2	4 3/8	4 3/16	2.5005	2.68
G211-13-200-478	2	4 7/8	4 11/16	2.5005	2.68
G211-13-200-578	2	5 7/8	5 11/16	2.5005	2.68
G211-13-212-138	2 1/2	1 3/8	1 3/16	3.2505	3.43
G211-13-212-178	2 1/2	1 7/8	1 11/16	3.2505	3.43
G211-13-212-238	2 1/2	2 3/8	2 3/16	3.2505	3.43
G211-13-212-278	2 1/2	2 7/8	2 11/16	3.2505	3.43
G211-13-212-338	2 1/2	3 3/8	3 3/16	3.2505	3.43
G211-13-212-378	2 1/2	3 7/8	3 11/16	3.2505	3.43
G211-13-212-438	2 1/2	4 3/8	4 3/16	3.2505	3.43
G211-13-212-478	2 1/2	4 7/8	4 11/16	3.2505	3.43
G211-13-212-578	2 1/2	5 7/8	5 11/16	3.2505	3.43
G211-13-300-338	3	3 3/8	3 3/16	3.7505	3.99
G211-13-300-378	3	3 7/8	3 11/16	3.7505	3.99
G211-13-300-478	3	4 7/8	4 11/16	3.7505	3.99
G211-13-300-578	3	5 7/8	5 11/16	3.7505	3.99

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 3, **l=** 4 7/8

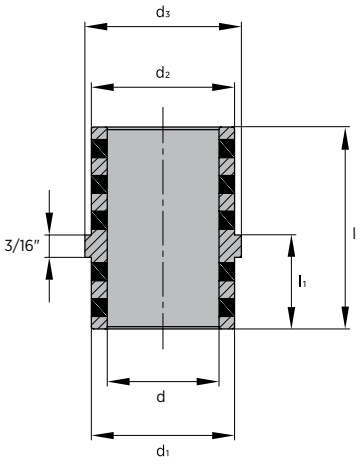
Sipariş Kodu / Order Code / Código de Pedido:
G211-13-300-478

2



Hammadde / Material :
Bronze + Graphite

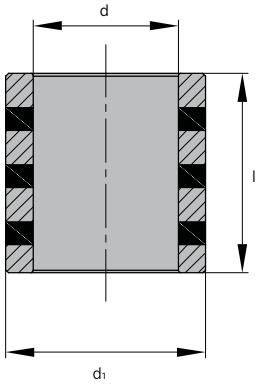
Hardness
HB ≥ 190

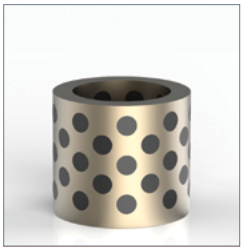


KOD / CODE / CÓDIGO	d (in)	l (in)	l1 (in)	d1 (in)	d2 (in)	d3 (in)
G211-14-0751-112	0.751	1 1/2	1	1.1255	1.124	1.302
G211-14-0876-112	0.876	1 1/2	1	1.2505	1.249	1.427
G211-14-1001-134	1.001	1 3/4	1 1/8	1.3755	1.374	1.552
G211-14-1001-200	1.001	2	1 5/8	1.3755	1.374	1.552
G211-14-1251-134	1.251	1 3/4	1 1/8	1.6255	1.624	1.802
G211-14-1251-212	1.251	2 1/2	1 7/8	1.6255	1.624	1.802
G211-14-1501-134	1.501	1 3/4	1 1/8	2.0005	1.999	2.177
G211-14-1501-212	1.501	2 1/2	1 7/8	2.0005	1.999	2.177
G211-14-2001-214	2.001	2 1/4	1 5/8	2.5005	2.499	2.687

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1.001, **l=** 1 3/4

Sipariş Kodu / Order Code / Código de Pedido:
G211-14-1001-134





Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

KOD / CODE / CÓDIGO	d (in)	l (in)	d_1 (in)
G212-02-034-078	3/4	7/8	1.1255
G212-02-034-138	3/4	1 3/8	1.1255
G212-02-034-112	3/4	1 1/2	1.1255
G212-02-078-114	7/8	1 1/4	1.2505
G212-02-078-112	7/8	1 1/2	1.2505
G212-02-100-114	1	1 1/4	1.3755
G212-02-100-138	1	1 3/8	1.3755
G212-02-100-112	1	1 1/2	1.3755
G212-02-100-134	1	1 3/4	1.3755
G212-02-100-200	1	2	1.3755
G212-02-100-300	1	3	1.3755
G212-02-114-114	1 1/4	1 1/4	1.6255
G212-02-114-138	1 1/4	1 3/8	1.6255
G212-02-114-112	1 1/4	1 1/2	1.6255
G212-02-114-134	1 1/4	1 3/4	1.6255
G212-02-114-178	1 1/4	1 7/8	1.6255
G212-02-114-200	1 1/4	2	1.6255
G212-02-114-300	1 1/4	3	1.6255
G212-02-112-114	1 1/2	1 1/4	2.0005
G212-02-112-138	1 1/2	1 3/8	2.0005
G212-02-112-112	1 1/2	1 1/2	2.0005
G212-02-112-134	1 1/2	1 3/4	2.0005
G212-02-112-178	1 1/2	1 7/8	2.0005
G212-02-112-200	1 1/2	2	2.0005
G212-02-112-300	1 1/2	3	2.0005

KOD / CODE / CÓDIGO	d (in)	l (in)	d_1 (in)
G212-02-134-114	1 3/4	1 1/4	2.2505
G212-02-134-112	1 3/4	1 1/2	2.2505
G212-02-134-134	1 3/4	1 3/4	2.2505
G212-02-134-200	1 3/4	2	2.2505
G212-02-134-212	1 3/4	2 1/2	2.2505
G212-02-134-300	1 3/4	3	2.2505
G212-02-134-312	1 3/4	3 1/2	2.2505
G212-02-134-400	1 3/4	4	2.2505
G212-02-200-114	2	1 1/4	2.5005
G212-02-200-112	2	1 1/2	2.5005
G212-02-200-200	2	2	2.5005
G212-02-200-212	2	2 1/2	2.5005
G212-02-200-300	2	3	2.5005
G212-02-200-378	2	3 7/8	2.5005
G212-02-214-112	2 1/4	1 1/2	2.7505
G212-02-214-200	2 1/4	2	2.7505
G212-02-214-212	2 1/4	2 1/2	2.7505
G212-02-214-300	2 1/4	3	2.7505
G212-02-212-112	2 1/2	1 1/2	3.2505
G212-02-212-200	2 1/2	2	3.2505
G212-02-212-300	2 1/2	3	3.2505
G212-02-212-478	2 1/2	4 7/8	3.2505
G212-02-300-200	3	2	3.7505
G212-02-300-212	3	2 1/2	3.7505
G212-02-300-300	3	3	3.7505
G212-02-300-312	3	3 1/2	3.7505
G212-02-300-478	3	4 7/8	3.7505

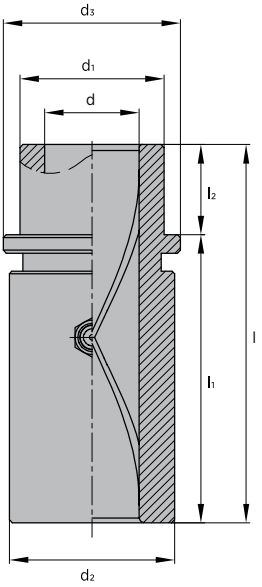
Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 2

Sipariş Kodu / Order Code / Código de Pedido:
G212-02-100-200

2



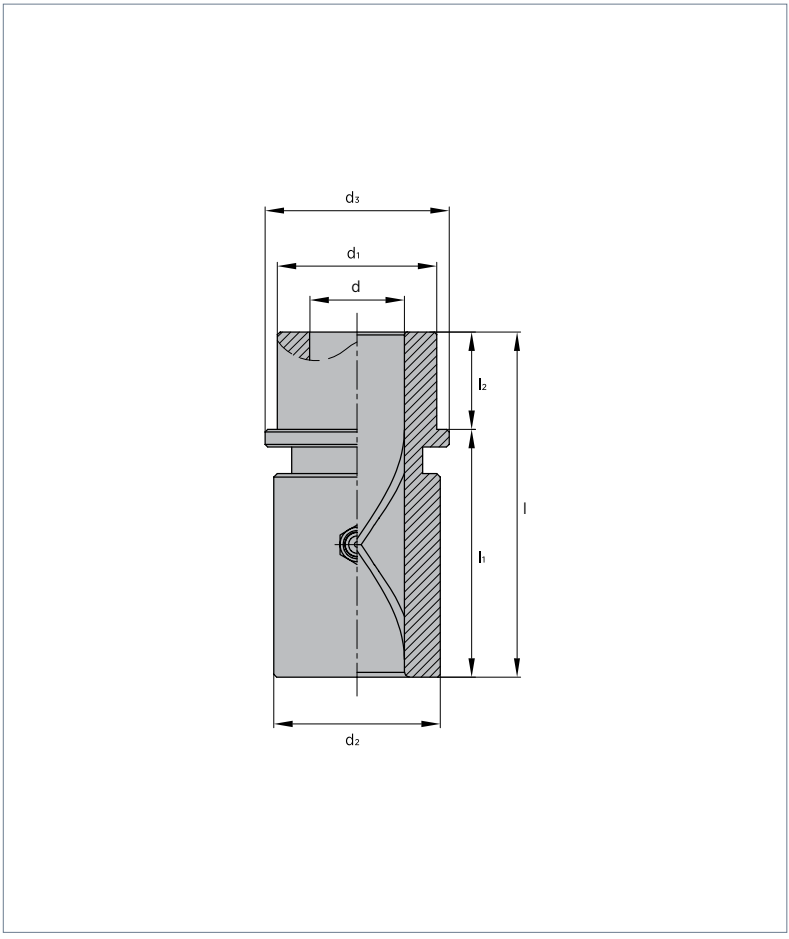
Hammadde / Material :
Hardened Steel



KOD / CODE / CÓDIGO	d (in)	l (in)	l₁ (in)	l₂ (in)	d₁ (in)	d₂ (in)	d₃ (in)
G213-09-100-3938	1	3.938	3	0.938	1.50	1.720	1.845
G213-09-114-4125	1 1/4	4.125	3	1.125	1.75	1.940	2.095
G213-09-112-4188	1 1/2	4.188	3	1.188	2.00	2.190	2.345
G213-09-134-4375	1 3/4	4.375	3	1.375	2.25	2.503	2.658
G213-09-200-4625	2	4.625	3	1.625	2.50	2.909	3.064
G213-09-212-4875	2 1/2	4.875	3	1.875	3.25	3.659	3.814
G213-09-300-4875	3	4.875	3	1.875	3.75	4.190	4.283

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 3.938

Sipariş Kodu / Order Code / Código de Pedido:
G213-09-100-3938





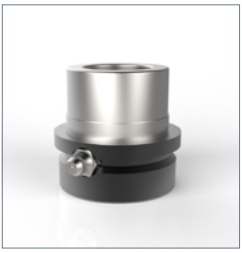
Hammadde / Material :
Hardened Steel

KOD / CODE / CÓDIGO	d (in)	l (in)	l₁ (in)	l₂ (in)	d₁ (in)	d₂ (in)	d₃ (in)
G213-10-034-2438	3/4	2.438	1.75	0.688	1.125	1.170	1.295
G213-10-078-2438	7/8	2.438	1.75	0.688	1.375	1.417	1.542
G213-10-100-2688	1	2.688	1.75	0.938	1.500	1.720	1.845
G213-10-114-3125	1 1/4	3.125	2.00	1.125	1.750	1.940	2.095
G213-10-112-3188	1 1/2	3.188	2.00	1.188	2.000	2.190	2.345
G213-10-134-3375	1 3/4	3.375	2.00	1.375	2.250	2.503	2.658
G213-10-200-3625	2	3.625	2.00	1.625	2.500	2.909	3.064
G213-10-212-4375	2 1/2	4.375	2.50	1.875	3.250	3.659	3.814
G213-10-300-4375	3	4.375	2.50	1.875	3.750	4.125	4.283

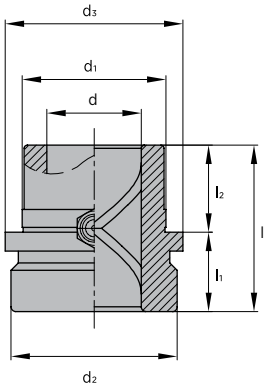
Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 3, **l=** 4.375

Sipariş Kodu / Order Code / Código de Pedido:
G213-10-300-4375

2



Hammadde / Material :
Hardened Steel

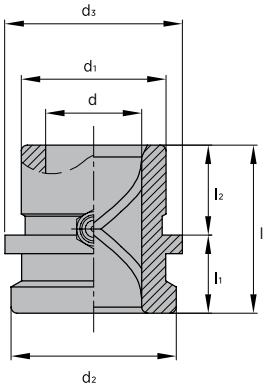


KOD / CODE / CÓDIGO	d	l	l₁	l₂	d₁	d₂	d₃
G213-11-034-1438	3/4	1.438	0.750	0.688	1.125	1.170	1.295
G213-11-078-1438	7/8	1.438	0.750	0.688	1.375	1.417	1.542
G213-11-100-1750	1	1.750	0.813	0.938	1.500	1.720	1.845
G213-11-114-1938	1 1/4	1.938	0.813	1.125	1.750	1.940	2.095
G213-11-112-2000	1 1/2	2.000	0.813	1.188	2.000	2.190	2.345
G213-11-134-2375	1 3/4	2.375	1.000	1.375	2.250	2.503	2.658
G213-11-200-2625	2	2.625	1.000	1.625	2.500	2.909	3.064
G213-11-212-2875	2 1/2	2.875	1.000	1.875	3.250	3.659	3.814
G213-11-300-2875	3	2.875	1.000	1.875	3.750	4.125	4.283

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 3/4, **l=** 1.438

Sipariş Kodu / Order Code / Código de Pedido:
G213-11-034-1438





Hammadde / Material :
Hardened Steel

The press-fit diameters of these bushings match the outside diameters of the oversize shoulder posts, allowing the same hole to be bored through the punch and die holder. The press-fit diameter is 0.0075" oversize to provide grinding stock.

Steel and bronze bushings can be ground for a slip or press fit. Bronze-plated bushings are for demountable use only and are supplied with clamps and screws. Do not hone these bushings. For additional clearance, grind the working diameter of the shoulder guide post.

KOD / CODE / CÓDIGO	d	l	l_1	l_2	d_1	d_2	d_3
G213-12-100-1750	1	1.750	0.813	0.938	1.507	1.720	1.845
G213-12-114-1938	1 1/4	1.938	0.813	1.125	1.757	1.940	2.095
G213-12-112-2000	1 1/2	2.000	0.813	1.188	2.007	2.190	2.345
G213-12-134-2375	1 3/4	2.375	1.000	1.375	2.257	2.503	2.658
G213-12-200-2625	2	2.625	1.000	1.625	2.507	2.909	3.064
G213-12-212-2875	2 1/2	2.875	1.000	1.875	3.257	3.659	3.814

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 1.750

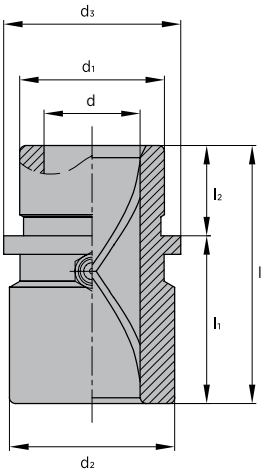
Sipariş Kodu / Order Code / Código de Pedido:
G213-12-100-1750



Hammadde / Material :
Hardened Steel

The press-fit diameters of these bushings match the outside diameters of the oversize shoulder posts, allowing the same hole to be bored through the punch and die holder. The press-fit diameter is 0.0075" oversize to provide grinding stock.

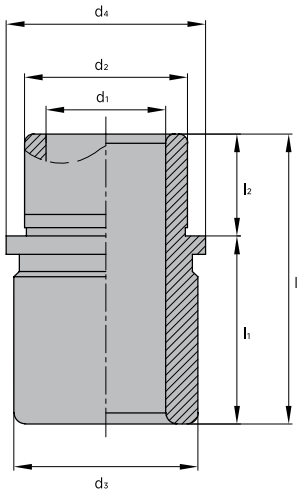
Steel and bronze bushings can be ground for a slip or press fit. Bronze-plated bushings are for demountable use only and are supplied with clamps and screws. Do not hone these bushings. For additional clearance, grind the working diameter of the shoulder guide post.



KOD / CODE / CÓDIGO	d (in)	l (in)	l1 (in)	l2 (in)	d1 (in)	d2 (in)	d3 (in)
G213-13-100-2688	1	2.688	1.75	0.938	1.507	1.720	1.845
G213-13-114-3125	1 1/4	3.125	2.00	1.125	1.757	1.940	2.095
G213-13-112-3188	1 1/2	3.188	2.00	1.188	2.007	2.190	2.345
G213-13-134-3375	1 3/4	3.375	2.00	1.375	2.257	2.503	2.658
G213-13-200-3625	2	3.625	2.00	1.625	2.507	2.909	3.064
G213-13-212-4375	2 1/2	4.375	2.50	1.875	3.257	3.659	3.814

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 2.688

Sipariş Kodu / Order Code / Código de Pedido:
G213-13-100-2688





Hammadde / Material :
Hardened Steel

d*= Post Diameter

KOD / CODE / CÓDIGO	d* (in)	l (in)	l1 (in)	l2 (in)	d1 (in)	d2 (in)	d3 (in)	d4 (in)
G215-06-100-2438	1	2.438	1.25	1.188	1.375	1.875	2.000	2.283
G215-06-100-2938	1	2.938	1.75	1.188	1.375	1.875	2.000	2.283
G215-06-100-3438	1	3.438	2.25	1.188	1.375	1.875	2.000	2.283
G215-06-100-3938	1	3.938	2.75	1.188	1.375	1.875	2.000	2.283
G215-06-114-2938	1 1/4	2.938	1.75	1.188	1.625	2.125	2.360	2.533
G215-06-114-3438	1 1/4	3.438	2.25	1.188	1.625	2.125	2.360	2.533
G215-06-114-3938	1 1/4	3.938	2.75	1.188	1.625	2.125	2.360	2.533
G215-06-112-2938	1 1/2	2.938	1.50	1.438	1.875	2.500	2.875	3.033
G215-06-112-3688	1 1/2	3.688	2.25	1.438	1.875	2.500	2.875	3.033
G215-06-112-4438	1 1/2	4.438	3.00	1.438	1.875	2.500	2.875	3.033
G215-06-112-4938	1 1/2	4.938	3.50	1.438	1.875	2.500	2.875	3.033
G215-06-134-3438	1 3/4	3.438	1.75	1.688	2.125	2.750	2.875	3.283
G215-06-134-4188	1 3/4	4.188	2.50	1.688	2.125	2.750	2.875	3.283
G215-06-134-4938	1 3/4	4.938	3.25	1.688	2.125	2.750	2.875	3.283
G215-06-200-3438	2	3.438	1.50	1.938	2.500	3.250	3.375	3.783
G215-06-200-3938	2	3.938	2.00	1.938	2.500	3.250	3.375	3.783
G215-06-200-4688	2	4.688	2.75	1.938	2.500	3.250	3.375	3.783
G215-06-200-5438	2	5.438	3.50	1.938	2.500	3.250	3.375	3.783
G215-06-200-6188	2	6.188	4.25	1.938	2.500	3.250	3.375	3.783
G215-06-200-6938	2	6.938	5.00	1.938	2.500	3.250	3.375	3.783
G215-06-212-3438	2 1/2	3.438	1.50	1.938	3.000	3.750	4.010	4.283
G215-06-212-3938	2 1/2	3.938	2.00	1.938	3.000	3.750	4.010	4.283
G215-06-212-4938	2 1/2	4.938	3.00	1.938	3.000	3.750	4.010	4.283
G215-06-212-5938	2 1/2	5.938	4.00	1.938	3.000	3.750	4.010	4.283
G215-06-212-6688	2 1/2	6.688	4.75	1.938	3.000	3.750	4.010	4.283
G215-06-212-7438	2 1/2	7.438	5.50	1.938	3.000	3.750	4.010	4.283
G215-06-300-3938	3	3.938	2.00	1.938	3.500	4.250	4.500	4.908
G215-06-300-4938	3	4.938	3.00	1.938	3.500	4.250	4.500	4.908
G215-06-300-5938	3	5.938	4.00	1.938	3.500	4.250	4.500	4.908
G215-06-300-6688	3	6.688	4.75	1.938	3.500	4.250	4.500	4.908
G215-06-300-7438	3	7.438	5.50	1.938	3.500	4.250	4.500	4.908

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d*= 1, **l=** 2.438

Sipariş Kodu / Order Code / Código de Pedido:
G215-06-100-2438

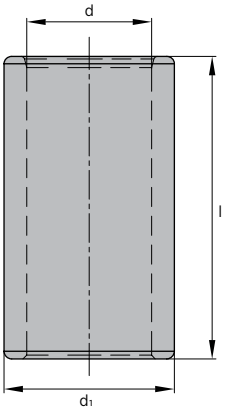
2



Hammadde / Material :
Hardened Steel

The press-fit bushings shown on this page are supplied with an undersized internal diameter, allowing them to be precisely fitted to the corresponding guide post by honing after installation.

If a bushing with a pre-finished internal diameter is required, please specify the "-H" suffix at the end of the part number when ordering.

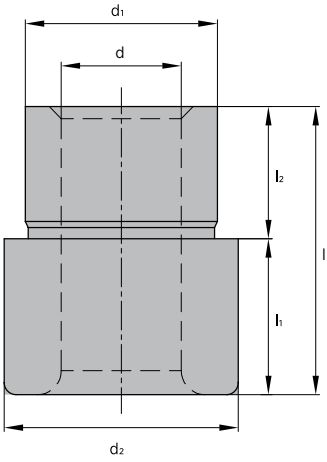


KOD / CODE / CÓDIGO	d (in)	l (in)	d_1 (in)
G215-07-012-112	1/2	1 1/2	13/16
G215-07-058-112	5/8	1 1/2	1
G215-07-034-134	3/4	1 3/4	1 1/8
G215-07-078-134	7/8	1 3/4	1 3/8
G215-07-100-134	1	1 3/4	1 1/2
G215-07-114-200	1 1/4	2	1 3/4
G215-07-112-200	1 1/2	2	2

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1/2, **l=** 1 1/2

Sipariş Kodu / Order Code / Código de Pedido:
G215-07-012-112





Hammadde / Material :
Hardened Steel

The press-fit bushings shown on this page are supplied with an undersized internal diameter, allowing them to be precisely fitted to the corresponding guide post by honing after installation.

If a bushing with a pre-finished internal diameter is required, please specify the "-H" suffix at the end of the part number when ordering.

KOD / CODE / CÓDIGO	d (in)	l (in)	l_1 (in)	l_2 (in)	d_1 (in)	d_2 (in)
G215-08-012-112	1/2	1 1/2	13/16	11/16	13/16	1.062
G215-08-058-112	5/8	1 1/2	13/16	11/16	1	1.218
G215-08-034-134	3/4	1 3/4	13/16	15/16	1 1/8	1.375
G215-08-078-134	7/8	1 3/4	13/16	15/16	1 3/8	1.625

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 3/4, **l=** 1 3/4

Sipariş Kodu / Order Code / Código de Pedido:
G215-08-034-134

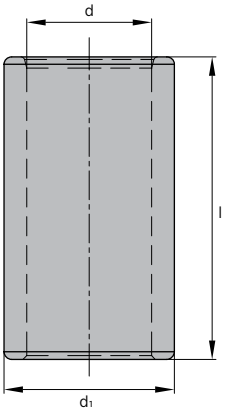
2



Hammadde / Material :
Hardened Steel

The press-fit bushings shown on this page are supplied with an undersized internal diameter, allowing them to be precisely fitted to the corresponding guide post by honing after installation.

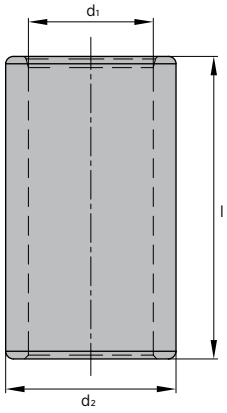
If a bushing with a pre-finished internal diameter is required, please specify the "-H" suffix at the end of the part number when ordering.



KOD / CODE / CÓDIGO	d (in)	l (in)	d_1 (in)
G215-09-012-300	1/2	3	13/16
G215-09-058-300	5/8	3	1
G215-09-034-300	3/4	3	1 1/8
G215-09-078-300	7/8	3	1 3/8
G215-09-100-300	1	3	1 1/2
G215-09-114-300	1 1/4	3	1 3/4
G215-09-112-300	1 1/2	3	2
G215-09-134-300	1 3/4	3	2 1/4
G215-09-200-300	2	3	2 1/2
G215-09-212-300	2 1/2	3	3 1/4

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1/2, **l=** 3

Sipariş Kodu / Order Code / Código de Pedido:
G215-09-012-300





Hammadde / Material :
Hardened Steel

d*= Post Diameter

APPLICATION OF BUSHING MOUNT

1. Clean the bushing OD and die shoe bore with alcohol, acetone, or another volatile solvent. Wipe dry.

2. Apply a small amount of Bushing Mount and twist the bushing into the die shoe.

3. Follow the approved retaining compound manufacturer's instructions for surface preparation, curing time and temperature.

KOD / CODE / CÓDIGO	d* (in)	l (in)	d₁ (in)	d₂ (in)
G215-10-100-212	1	2 1/2	1 3/8	1 7/8
G215-10-100-300	1	3	1 3/8	1 7/8
G215-10-100-312	1	3 1/2	1 3/8	1 7/8
G215-10-100-400	1	4	1 3/8	1 7/8
G215-10-100-412	1	4 1/2	1 3/8	1 7/8
G215-10-100-500	1	5	1 3/8	1 7/8
G215-10-114-300	1 1/4	3	1 5/8	2 1/8
G215-10-114-312	1 1/4	3 1/2	1 5/8	2 1/8
G215-10-114-400	1 1/4	4	1 5/8	2 1/8
G215-10-114-412	1 1/4	4 1/2	1 5/8	2 1/8
G215-10-114-500	1 1/4	5	1 5/8	2 1/8
G215-10-114-600	1 1/4	6	1 5/8	2 1/8
G215-10-112-300	1 1/2	3	1 7/8	2 1/2
G215-10-112-334	1 1/2	3 3/4	1 7/8	2 1/2
G215-10-112-412	1 1/2	4 1/2	1 7/8	2 1/2
G215-10-112-500	1 1/2	5	1 7/8	2 1/2
G215-10-112-512	1 1/2	5 1/2	1 7/8	2 1/2
G215-10-112-600	1 1/2	6	1 7/8	2 1/2
G215-10-112-700	1 1/2	7	1 7/8	2 1/2
G215-10-112-800	1 1/2	8	1 7/8	2 1/2
G215-10-134-312	1 3/4	3 1/2	2 1/8	2 3/4
G215-10-134-414	1 3/4	4 1/4	2 1/8	2 3/4
G215-10-134-500	1 3/4	5	2 1/8	2 3/4
G215-10-134-512	1 3/4	5 1/2	2 1/8	2 3/4

KOD / CODE / CÓDIGO	d* (in)	l (in)	d₁ (in)	d₂ (in)
G215-10-134-600	1 3/4	6	2 1/8	2 3/4
G215-10-134-700	1 3/4	7	2 1/8	2 3/4
G215-10-134-800	1 3/4	8	2 1/8	2 3/4
G215-10-134-900	1 3/4	9	2 1/8	2 3/4
G215-10-200-400	2	4	2 1/2	3 1/4
G215-10-200-434	2	4 3/4	2 1/2	3 1/4
G215-10-200-512	2	5 1/2	2 1/2	3 1/4
G215-10-200-614	2	6 1/4	2 1/2	3 1/4
G215-10-200-700	2	7	2 1/2	3 1/4
G215-10-200-800	2	8	2 1/2	3 1/4
G215-10-200-900	2	9	2 1/2	3 1/4
G215-10-200-1000	2	10	2 1/2	3 1/4
G215-10-212-600	2 1/2	6	3	3 3/4
G215-10-212-634	2 1/2	6 3/4	3	3 3/4
G215-10-212-712	2 1/2	7 1/2	3	3 3/4
G215-10-212-812	2 1/2	8 1/2	3	3 3/4
G215-10-212-912	2 1/2	9 1/2	3	3 3/4
G215-10-212-1012	2 1/2	10 1/2	3	3 3/4
G215-10-300-600	3	6	3 1/2	4 1/4
G215-10-300-634	3	6 3/4	3 1/2	4 1/4
G215-10-300-712	3	7 1/2	3 1/2	4 1/4
G215-10-300-812	3	8 1/2	3 1/2	4 1/4
G215-10-300-912	3	9 1/2	3 1/2	4 1/4
G215-10-300-1012	3	10 1/2	3 1/2	4 1/4

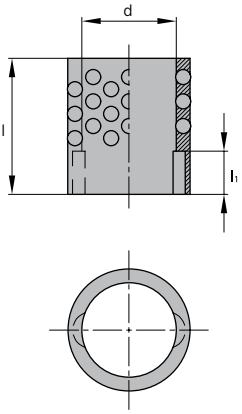
Sipariş Örneği / Order Example / Ejemplo de Pedido:
d*= 1 1/4, **l=** 3

Sipariş Kodu / Order Code / Código de Pedido:
G215-10-114-300

2



Hammadde / Material :
Hardened Steel
Aluminum Alloy

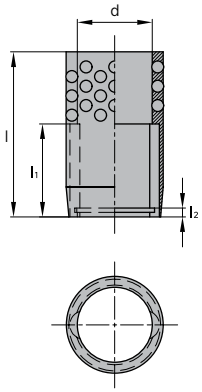


KOD / CODE / CÓDIGO	d (in)	l (in)	l1 (in)
G216-05-100-112	1	1 1/2	7/16
G216-05-100-200	1	2	11/16
G216-05-114-112	1 1/4	1 1/2	7/16
G216-05-114-200	1 1/4	2	11/16
G216-05-112-200	1 1/2	2	11/16
G216-05-112-212	1 1/2	2 1/2	15/16
G216-05-134-200	1 3/4	2	1.170
G216-05-134-212	1 3/4	2 1/2	15/16
G216-05-134-300	1 3/4	3	1 3/16
G216-05-200-200	2	2	1.170
G216-05-200-300	2	3	1 3/16
G216-05-200-312	2	3 1/2	1 7/16
G216-05-212-300	2 1/2	3	1.170
G216-05-212-400	2 1/2	4	1 11/16
G216-05-300-400	3	4	1 11/16

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 2, **l=** 2

Sipariş Kodu / Order Code / Código de Pedido:
G216-05-200-200

Bilyalı Alüminyum Alaşımlı Kafesler
Ball Bearing Aluminum Alloy Cages
Jaulas de Aleación de Aluminio para Rodamientos de Bolas





Hammadde / Material :
Hardened Steel
Aluminum Alloy

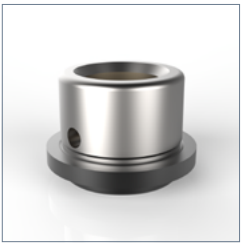
KOD / CODE / CÓDIGO	d (in)	l (in)	l₁ (in)	l₂ (in)
G216-06-100-200	1	2	1 1/16	3/16
G216-06-100-212	1	2 1/2	1 5/16	3/16
G216-06-100-300	1	3	1 9/16	3/16
G216-06-100-314	1	3 1/4	1 13/16	3/16
G216-06-100-312	1	3 1/2	2 1/16	3/16
G216-06-100-334	1	3 3/4	2 5/16	3/16
G216-06-114-234	1 1/4	2 3/4	1 7/16	3/16
G216-06-114-314	1 1/4	3 1/4	1 11/16	3/16
G216-06-114-334	1 1/4	3 3/4	1 15/16	3/16
G216-06-114-400	1 1/4	4	2 3/16	3/16
G216-06-114-414	1 1/4	4 1/4	2 7/16	3/16
G216-06-114-434	1 1/4	4 3/4	2 15/16	3/16
G216-06-112-234	1 1/2	2 3/4	1 7/16	1/4
G216-06-112-312	1 1/2	3 1/2	1 13/16	1/4
G216-06-112-414	1 1/2	4 1/4	2 3/16	1/4
G216-06-112-412	1 1/2	4 1/2	2 7/16	1/4
G216-06-112-500	1 1/2	5	2 15/16	1/4
G216-06-112-512	1 1/2	5 1/2	3 7/16	1/4
G216-06-112-600	1 1/2	6	3 15/16	1/4
G216-06-134-314	1 3/4	3 1/4	1 11/16	1/4
G216-06-134-400	1 3/4	4	2 1/16	1/4
G216-06-134-434	1 3/4	4 3/4	2 7/16	1/4
G216-06-134-514	1 3/4	5 1/4	2 15/16	1/4
G216-06-134-534	1 3/4	5 3/4	3 7/16	1/4
G216-06-134-614	1 3/4	6 1/4	3 15/16	1/4
G216-06-134-634	1 3/4	6 3/4	4 7/16	1/4

KOD / CODE / CÓDIGO	d (in)	l (in)	l₁ (in)	l₂ (in)
G216-06-200-334	2	3 3/4	1 15/16	1/4
G216-06-200-412	2	4 1/2	2 5/16	1/4
G216-06-200-514	2	5 1/4	2 11/16	1/4
G216-06-200-558	2	5 5/8	3 1/16	1/4
G216-06-200-600	2	6	3 7/16	1/4
G216-06-200-612	2	6 1/2	3 15/16	1/4
G216-06-200-700	2	7	4 7/16	1/4
G216-06-200-712	2	7 1/2	4 15/16	1/4
G216-06-212-534	2 1/2	5 3/4	3	3/8
G216-06-212-612	2 1/2	6 1/2	3 3/8	3/8
G216-06-212-714	2 1/2	7 1/4	3 3/4	3/8
G216-06-212-734	2 1/2	7 3/4	4 1/4	3/8
G216-06-212-814	2 1/2	8 1/4	4 3/4	3/8
G216-06-212-834	2 1/2	8 3/4	5 1/4	3/8
G216-06-300-534	3	5 3/4	3	3/8
G216-06-300-612	3	6 1/2	3 3/8	3/8
G216-06-300-714	3	7 1/4	3 3/4	3/8
G216-06-300-734	3	7 3/4	4 1/4	3/8
G216-06-300-814	3	8 1/4	4 3/4	3/8
G216-06-300-834	3	8 3/4	5 1/4	3/8

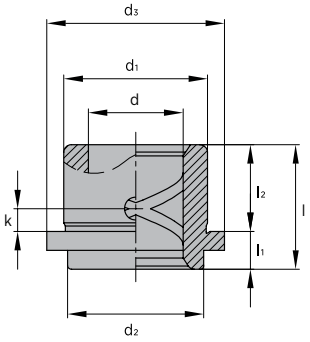
Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1 1/4, **l=** 4 3/4

Sipariş Kodu / Order Code / Código de Pedido:
G216-06-114-434

2



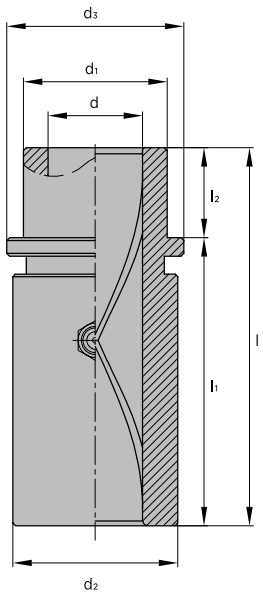
Hammadde / Material :
Hardened Steel
Bronze-Plated



KOD / CODE / CÓDIGO	d (in)	l (in)	l1 (in)	l2 (in)	d1 (in)	d2 (in)	d3 (in)	k
G217-07-100-1375	1	1.375	0.5	0.875	1.500	1.593	1.845	0.181
G217-07-100-1875	1	1.875	0.5	1.375	1.500	1.593	1.845	0.368
G217-07-100-2875	1	2.875	0.5	2.375	1.500	1.593	1.845	0.531
G217-07-114-1375	1 1/4	1.375	0.5	0.875	1.750	1.843	2.050	0.181
G217-07-114-2375	1 1/4	2.375	0.5	1.875	1.750	1.843	2.050	0.406
G217-07-114-3375	1 1/4	3.375	0.5	2.875	1.750	1.843	2.050	0.719
G217-07-112-2375	1 1/2	2.375	0.5	1.875	2.000	2.062	2.345	0.406
G217-07-112-3375	1 1/2	3.375	0.5	2.875	2.000	2.062	2.345	0.719
G217-07-134-2875	1 3/4	2.875	0.5	2.375	2.250	2.312	2.658	0.531
G217-07-134-3875	1 3/4	3.875	0.5	3.375	2.250	2.312	2.658	0.906
G217-07-200-2875	2	2.875	0.5	2.375	2.500	2.625	3.064	0.531
G217-07-200-3875	2	3.875	0.5	3.375	2.500	2.625	3.064	0.906
G217-07-212-3125	2 1/2	3.125	0.5	2.625	3.000	3.062	3.814	0.563
G217-07-212-4125	2 1/2	4.125	0.5	3.625	3.000	3.062	3.814	1.000
G217-07-212-5125	2 1/2	5.125	0.5	4.625	3.000	3.062	3.814	1.375

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 2, **l=** 2.875

Sipariş Kodu / Order Code / Código de Pedido:
G217-07-200-2875





Hammadde / Material :
Hardened Steel
Bronze-Plated

KOD / CODE / CÓDIGO	d (in)	l (in)	l₁ (in)	l₂ (in)	d₁ (in)	d₂ (in)	d₃ (in)
G217-08-100-3938	1	3.938	3	0.938	1.50	1.720	1.845
G217-08-114-4125	1 1/4	4.125	3	1.125	1.75	1.940	2.095
G217-08-112-4188	1 1/2	4.188	3	1.188	2.00	2.190	2.345
G217-08-134-4375	1 3/4	4.375	3	1.375	2.25	2.503	2.658
G217-08-200-4625	2	4.625	3	1.625	2.50	2.909	3.064
G217-08-212-4875	2 1/2	4.875	3	1.875	3.25	3.659	3.814
G217-08-300-4875	3	4.875	3	1.875	3.75	4.190	4.283

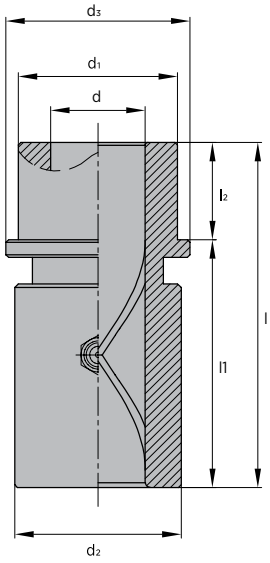
Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 3.938

Sipariş Kodu / Order Code / Código de Pedido:
G217-08-100-3938

2



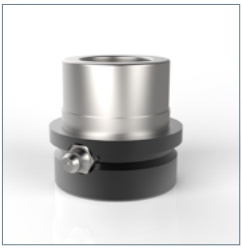
Hammadde / Material :
Hardened Steel
Bronze-Plated

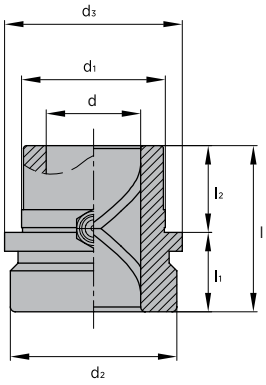


KOD / CODE / CÓDIGO	d (in)	l (in)	l_1 (in)	l_2(in)	d_1 (in)	d_2 (in)	d_3 (in)
G217-09-100-2688	1	2.688	1.75	0.938	1.500	1.720	1.845
G217-09-114-3125	1 1/4	3.125	2.00	1.125	1.750	1.940	2.095
G217-09-112-3188	1 1/2	3.188	2.00	1.188	2.000	2.190	2.345
G217-09-134-3375	1 3/4	3.375	2.00	1.375	2.250	2.503	2.658
G217-09-200-3625	2	3.625	2.00	1.625	2.500	2.909	3.064
G217-09-212-4375	2 1/2	4.375	2.50	1.875	3.250	3.659	3.814
G217-09-300-4375	3	4.375	2.50	1.875	3.750	4.125	4.283

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 2, **l=** 3.625

Sipariş Kodu / Order Code / Código de Pedido:
G217-09-200-3625





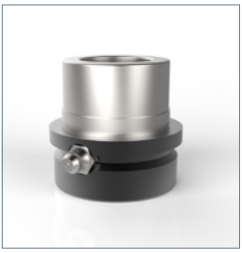
Hammadde / Material :
Hardened Steel
Bronze-Plated

KOD / CODE / CÓDIGO	d (in)	l (in)	l1 (in)	l2 (in)	d1 (in)	d2 (in)	d3 (in)
G217-10-100-1750	1	1.750	0.813	0.938	1.500	1.720	1.845
G217-10-114-1938	1 1/4	1.938	0.813	1.125	1.750	1.940	2.095
G217-10-112-2000	1 1/2	2.000	0.813	1.188	2.000	2.190	2.345
G217-10-134-2375	1 3/4	2.375	1.000	1.375	2.250	2.503	2.658
G217-10-200-2625	2	2.625	1.000	1.625	2.500	2.909	3.064
G217-10-212-2875	2 1/2	2.875	1.000	1.875	3.250	3.659	3.814
G217-10-300-2875	3	2.875	1.000	1.875	3.750	4.125	4.283

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 1.750

Sipariş Kodu / Order Code / Código de Pedido:
G217-10-100-1750

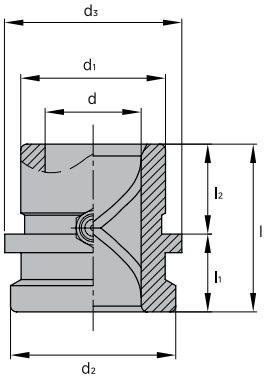
2



Hammadde / Material :
Hardened Steel
Bronze-Plated

The press-fit diameters of these bushings match the outside diameters of the oversize shoulder posts, allowing the same hole to be bored through the punch and die holder. The press-fit diameter is 0.0075" oversize to provide grinding stock.

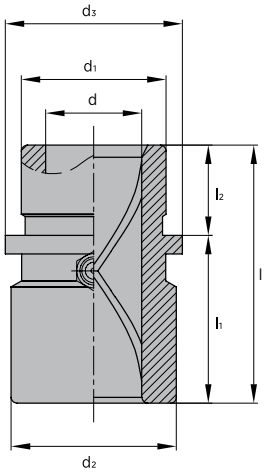
Steel and bronze bushings can be ground for a slip or press fit. Bronze-plated bushings are for demountable use only and are supplied with clamps and screws. Do not hone these bushings. For additional clearance, grind the working diameter of the shoulder guide post.



KOD / CODE / CÓDIGO	d (in)	l (in)	l₁ (in)	l₂ (in)	d₁ (in)	d₂ (in)	d₃ (in)
G217-11-100-1750	1	1.750	0.813	0.938	1.507	1.720	1.845
G217-11-114-1938	1 1/4	1.938	0.813	1.125	1.757	1.940	2.095
G217-11-112-2000	1 1/2	2.000	0.813	1.188	2.007	2.190	2.345
G217-11-134-2375	1 3/4	2.375	1.000	1.375	2.257	2.503	2.658
G217-11-200-2625	2	2.625	1.000	1.625	2.507	2.909	3.064
G217-11-212-2875	2 1/2	2.875	1.000	1.875	3.257	3.659	3.814

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 2 1/2, **l=** 2.875

Sipariş Kodu / Order Code / Código de Pedido:
G217-11-212-2875





Hammadde / Material :
Hardened Steel
Bronze-Plated

The press-fit diameters of these bushings match the outside diameters of the oversize shoulder posts, allowing the same hole to be bored through the punch and die holder. The press-fit diameter is 0.0075" oversize to provide grinding stock.

Steel and bronze bushings can be ground for a slip or press fit. Bronze-plated bushings are for demountable use only and are supplied with clamps and screws. Do not hone these bushings. For additional clearance, grind the working diameter of the shoulder guide post.

KOD / CODE / CÓDIGO	d (in)	l (in)	l_1 (in)	l_2 (in)	d_1 (in)	d_2 (in)	d_3 (in)
G217-12-100-2688	1	2.688	1.75	0.938	1.507	1.720	1.845
G217-12-114-3125	1 1/4	3.125	2.00	1.125	1.757	1.940	2.095
G217-12-112-3188	1 1/2	3.188	2.00	1.188	2.007	2.190	2.345
G217-12-134-3375	1 3/4	3.375	2.00	1.375	2.257	2.503	2.658
G217-12-200-3625	2	3.625	2.00	1.625	2.507	2.909	3.064
G217-12-212-4375	2 1/2	4.375	2.50	1.875	3.257	3.659	3.814

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 2, **l=** 3.625

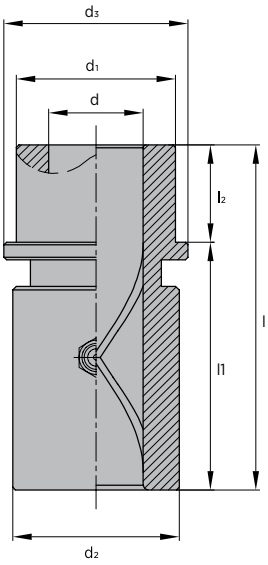
Sipariş Kodu / Order Code / Código de Pedido:
G217-12-200-3625

2



Hammadde / Material :
Bronze

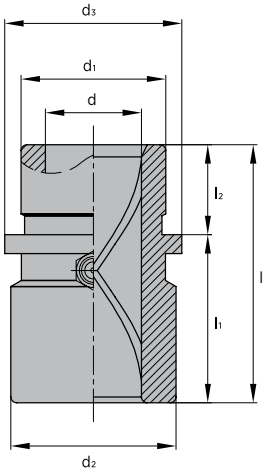
Hardness
HB ≥ 190



KOD / CODE / CÓDIGO	d (in)	l (in)	l1 (in)	l2(in)	d1 (in)	d2 (in)	d3 (in)
G218-01-100-2688	1	2.688	1.75	0.938	1.500	1.720	1.845
G218-01-114-3125	1 1/4	3.125	2.00	1.125	1.750	1.940	2.095
G218-01-112-3188	1 1/2	3.188	2.00	1.188	2.000	2.190	2.345
G218-01-134-3375	1 3/4	3.375	2.00	1.375	2.250	2.503	2.658
G218-01-200-3625	2	3.625	2.00	1.625	2.500	2.909	3.064
G218-01-212-4375	2 1/2	4.375	2.50	1.875	3.250	3.659	3.814
G218-01-300-4375	3	4.375	2.50	1.875	3.750	4.125	4.283

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 2, **l=** 3.625

Sipariş Kodu / Order Code / Código de Pedido:
G218-01-200-3625





Hammadde / Material :
Bronze

Hardness
HB ≥ 190

The press-fit diameters of these bushings match the outside diameters of the oversize shoulder posts, allowing the same hole to be bored through the punch and die holder. The press-fit diameter is 0.0075" oversize to provide grinding stock.

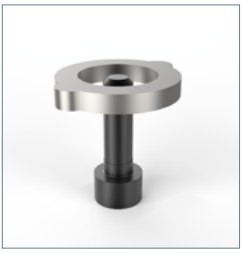
Steel and bronze bushings can be ground for a slip or press fit. Bronze-plated bushings are for demountable use only and are supplied with clamps and screws. Do not hone these bushings. For additional clearance, grind the working diameter of the shoulder guide post.

KOD / CODE / CÓDIGO	d (in)	l (in)	l_1 (in)	l_2 (in)	d_1 (in)	d_2 (in)	d_3 (in)
G218-02-100-2688	1	2.688	1.75	0.938	1.507	1.720	1.845
G218-02-114-3125	1 1/4	3.125	2.00	1.125	1.757	1.940	2.095
G218-02-112-3188	1 1/2	3.188	2.00	1.188	2.007	2.190	2.345
G218-02-134-3375	1 3/4	3.375	2.00	1.375	2.257	2.503	2.658
G218-02-200-3625	2	3.625	2.00	1.625	2.507	2.909	3.064
G218-02-212-4375	2 1/2	4.375	2.50	1.875	3.257	3.659	3.814

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d= 1, **l=** 2.688

Sipariş Kodu / Order Code / Código de Pedido:
G218-02-100-2688

2

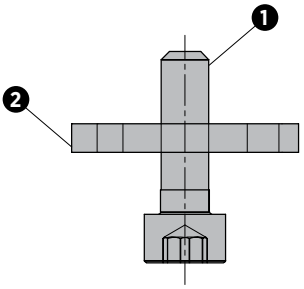


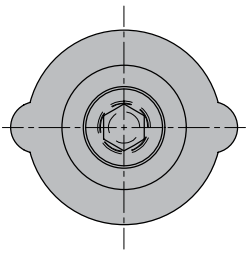
Hammadde / Material :

1 ANSI B18.3

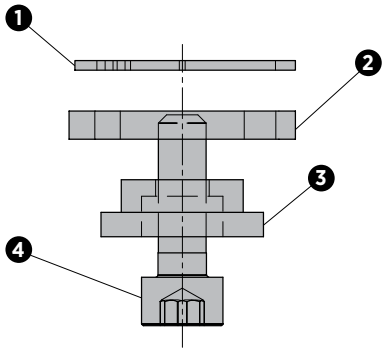
2 Steel

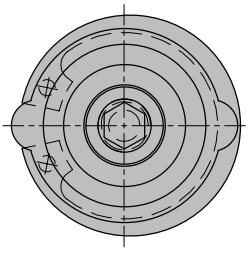
d*= Post Diameter





SET KODU / SET CODE / CÓDIGO del CONJUNTO	d*	Part 1	Part 2
A101-19-100	1	C-5/16-18X3/4	A101-19-1001
A101-19-114	1 1/4	C-5/16-18X3/4	A101-19-1141
A101-19-112	1 1/2	C-3/8-16X7/8	A101-19-1121
A101-19-134	1 3/4	C-3/8-16X7/8	A101-19-1341
A101-19-200	2	C-3/8-16X7/8	A101-19-2001
A101-19-212	2 1/2	C-1/2-13X1	A101-19-2121
A101-19-300	3	C-1/2-13X1	A101-19-3001







Hammadde / Material :

1 ANSI B18.27

2 Steel

3 Steel

4 ANSI B18.3

d*= Post Diameter

SET KODU / SET CODE / CÓDIGO del CONJUNTO	d*	Part 1	Part 2	Part 3	Part 4
A101-20-100	1	A101-20-1002	A101-20-1001	A101-20-1	C-5/16-18X3/4
A101-20-114	1 1/4	A101-20-1142	A101-20-1141	A101-20-1	C-5/16-18X3/4
A101-20-112	1 1/2	A101-20-1122	A101-20-1121	A101-20-2	C-3/8-16X7/8
A101-20-134	1 3/4	A101-20-1342	A101-20-1341	A101-20-2	C-3/8-16X7/8
A101-20-200	2	A101-20-2002	A101-20-2001	A101-20-2	C-3/8-16X7/8
A101-20-212	2 1/2	A101-20-2122	A101-20-2121	A101-20-3	C-1/2-13X1
A101-20-300	3	A101-20-3002	A101-20-3001	A101-20-3	C-1/2-13X1

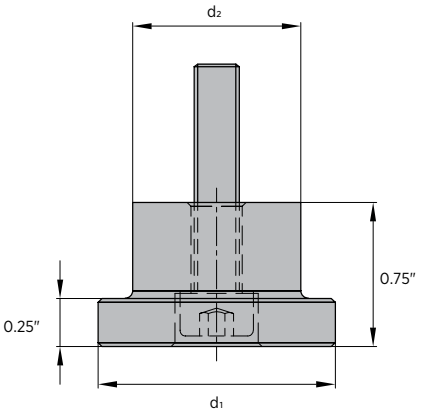
2

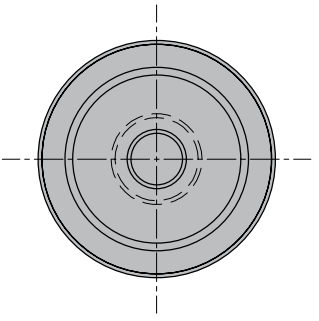


Hammadde / Material :
Hardened Steel

Screw included.

d*= Post Diameter



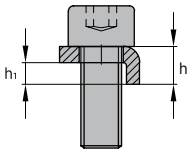


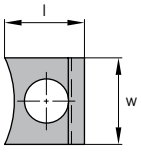
KOD / CODE / CÓDIGO	d* (in)	d₁ (in)	d₂ (in)	SHCS Used
A101-24-100	1	1.250	0.875	5/16
A101-24-114	1 1/4	1.500	1.125	5/16
A101-24-112	1 1/2	1.750	1.375	3/8
A101-24-134	1 3/4	2.000	1.625	3/8
A101-24-200	2	2.375	1.875	3/8
A101-24-212	2 1/2	2.875	2.375	1/2
A101-24-300	3	3.375	2.875	1/2

Sipariş Örneği / Order Example / Ejemplo de Pedido:
d*= 2

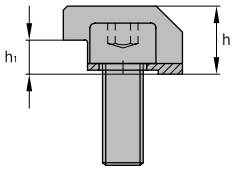
Sipariş Kodu / Order Code / Código de Pedido:
A101-24-200

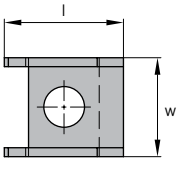
Form A





Form B







Hammadde / Material :
Hardened Steel

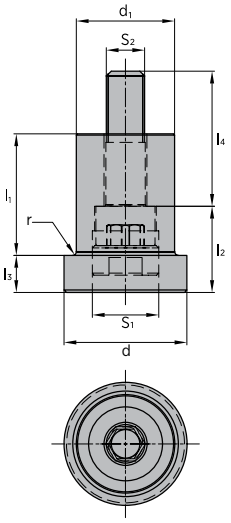
KOD / CODE / CÓDIGO	Form	w (in)	l (in)	h (in)	h_1 (in)	Screw
A101-25-001	A	0.625	0.625	0.344	0.193	1/4-20x3/4 long
A101-25-002	A	0.625	0.781	0.375	0.193	5/16-18x3/4 long
A101-25-003	A	0.625	0.781	0.443	0.250	5/16-18x7/8 long
A101-25-004	A	0.500	0.469	0.219	0.125	1/4-20x5/8 long
A101-25-005	B	0.719	0.719	0.453	0.193	5/16-18x1/2 long

2



Hammadde / Material :
AISI 1144 Steel

Hardened
HRC 28 ÷ 34



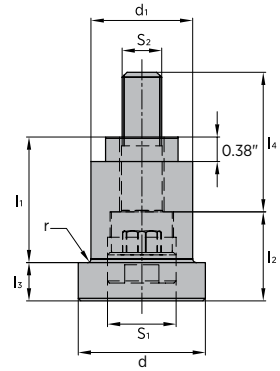
KOD / CODE / CÓDIGO	d (in)	d1 (in) ±0.005	S1 (in)	S2 (in)	r (in)	Load Rating Lbs.
A104-03-100-100	1.00	0.75	5/8 – 18	5/16 – 18	0.03	1500
A104-03-106-100	1.06	0.81	5/8 – 18	5/16 – 18	0.03	1500
A104-03-125-100	1.25	1.00	3/4 – 16	3/8 – 16	0.03	3000
A104-03-162-100	1.62	1.25	7/8 – 14	1/2 – 13	0.06	5000
A104-03-187-125	1.87	1.50	1-1/8 – 12	5/8 – 11	0.06	7500
A104-03-200-150	2.00	1.62	1-1/4 – 12	3/4 – 10	0.06	10000

KOD / CODE / CÓDIGO	l1 (in)	l2 (in)	l3 (in)	l4 (in)
A104-03-100-100	1.00	1.00	0.38	1.00
A104-03-100-125	1.25	1.00	0.38	1.25
A104-03-100-150	1.50	1.00	0.38	1.50
A104-03-100-175	1.75	1.00	0.38	1.75
A104-03-100-200	2.00	1.00	0.38	2.00
A104-03-100-225	2.25	1.00	0.38	2.25
A104-03-100-250	2.50	1.00	0.38	2.50
A104-03-100-275	2.75	1.00	0.38	2.75
A104-03-100-300	3.00	1.00	0.38	3.00
A104-03-100-325	3.25	1.00	0.38	3.25
A104-03-100-350	3.50	1.00	0.38	3.50
A104-03-106-100	1.00	1.00	0.375	1.00
A104-03-106-125	1.25	1.00	0.375	1.25
A104-03-106-150	1.50	1.00	0.375	1.50
A104-03-106-175	1.75	1.00	0.375	1.75
A104-03-106-200	2.00	1.00	0.375	2.00
A104-03-106-225	2.25	1.00	0.375	2.25
A104-03-106-250	2.50	1.00	0.375	2.50
A104-03-106-275	2.75	1.00	0.375	2.75
A104-03-106-300	3.00	1.00	0.375	3.00
A104-03-106-325	3.25	1.00	0.375	3.25
A104-03-106-350	3.50	1.00	0.375	3.50
A104-03-125-100	1.00	1.12	0.50	1.00
A104-03-125-125	1.25	1.12	0.50	1.25
A104-03-125-150	1.50	1.12	0.50	1.50
A104-03-125-175	1.75	1.12	0.50	1.75
A104-03-125-200	2.00	1.12	0.50	2.00
A104-03-125-225	2.25	1.12	0.50	2.25
A104-03-125-250	2.50	1.12	0.50	2.50

KOD / CODE / CÓDIGO	l1 (in)	l2 (in)	l3 (in)	l4 (in)
A104-03-125-275	2.75	1.12	0.5	2.75
A104-03-125-300	3.00	1.12	0.50	3.00
A104-03-125-325	3.25	1.12	0.50	3.25
A104-03-125-350	3.50	1.12	0.50	3.50
A104-03-125-375	3.75	1.12	0.50	3,75
A104-03-125-400	4.00	1.12	0.50	4.00
A104-03-125-450	4.50	1.12	0.50	4.50
A104-03-125-500	5.00	1.12	0.50	5.00
A104-03-125-550	5.50	1.12	0.50	5.50
A104-03-125-600	6.00	1.12	0.50	6.00
A104-03-162-100	1.00	1.12	0.50	1.25
A104-03-162-125	1.25	1.12	0.50	1.50
A104-03-162-150	1.50	1.12	0.50	1.75
A104-03-162-175	1,75	1.12	0.50	2.00
A104-03-162-200	2.00	1.12	0.50	2.25
A104-03-162-225	2,25	1.12	0.50	2.50
A104-03-162-250	2,50	1.12	0.50	2.75
A104-03-162-275	2,75	1.12	0.50	3.00
A104-03-162-300	3.00	1.12	0.50	3.25
A104-03-162-325	3.25	1.12	0.50	3.50
A104-03-162-350	3.50	1.12	0.50	3.75
A104-03-162-375	3.75	1.12	0.50	4.00
A104-03-162-400	4.00	1.12	0.50	4.25
A104-03-162-450	4.50	1.12	0.50	4.75
A104-03-162-500	5.00	1.12	0.50	5.25
A104-03-162-550	5.50	1.12	0.50	6.00
A104-03-162-600	6.00	1.12	0.50	6.50
A104-03-187-125	1.25	1.25	0.50	1.50
A104-03-187-150	1.50	1.25	0.50	1.75

KOD / CODE / CÓDIGO	l1 (in)	l2 (in)	l3 (in)	l4 (in)
A104-03-187-175	1.75	1.25	0.50	2.00
A104-03-187-200	2.00	1.25	0.50	2.25
A104-03-187-225	2.25	1.25	0.50	2.50
A104-03-187-250	2.50	1.25	0.50	2.75
A104-03-187-275	2.75	1.25	0.50	3.00
A104-03-187-300	3.00	1.25	0.50	3.25
A104-03-187-325	3.25	1.25	0.50	3.50
A104-03-187-350	3.50	1.25	0.50	3.75
A104-03-187-375	3.75	1.25	0.50	4.00
A104-03-187-400	4.00	1.25	0.50	4.25
A104-03-187-450	4.50	1.25	0.50	5.00
A104-03-187-500	5.00	1.25	0.50	5.50
A104-03-187-550	5.50	1.25	0.50	6.00
A104-03-187-600	6.00	1.25	0.50	6.50
A104-03-200-150	1.50	1.38	0.50	2.00
A104-03-200-175	1.75	1.38	0.50	2.25
A104-03-200-200	2.00	1.38	0.50	2.50
A104-03-200-225	2.25	1.38	0.50	2.75
A104-03-200-250	2.50	1.38	0.50	3.00
A104-03-200-275	2.75	1.38	0.50	3.25
A104-03-200-300	3.00	1.38	0.50	3.50
A104-03-200-325	3.25	1.38	0.50	3.75
A104-03-200-350	3.50	1.38	0.50	4.00
A104-03-200-375	3.75	1.38	0.50	4.25
A104-03-200-400	4.00	1.38	0.50	4.50
A104-03-200-450	4.50	1.38	0.50	5.00
A104-03-200-500	5.00	1.38	0.50	5.50
A104-03-200-550	5.50	1.38	0.50	6.00
A104-03-200-600	6.00	1.38	0.50	6.50

Düz Yüzeyli Standart Montaj Baskı Plakası Tutucuları
Standard Mount Pad Retainer with Flats
Retenedores de Almohadilla de Montaje Estándar con Planos





Hammadde / Material :
AISI 1144 Steel

Hardened
HRC 28 ÷ 34

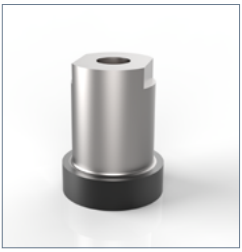
KOD / CODE / CÓDIGO	d (in)	d1 (in) ±0.005	S1 (in)	S2 (in)	l5 (in)	r (in)	Load Rating lbs.
A104-04-100-100	1.00	0.75	5/8 – 18	5/16 – 18	0.625	0.03	1500
A104-04-106-100	1.06	0.81	5/8 – 18	5/16 – 18	0.690	0.03	1500
A104-04-125-100	1.25	1.00	3/4 – 16	3/8 – 16	0.875	0.03	3000
A104-04-162-100	1.62	1.25	7/8 – 14	1/2 – 13	1.125	0.06	5000
A104-04-187-125	1.87	1.50	1-1/8 – 12	5/8 – 11	1.250	0.06	7500
A104-04-200-150	2.00	1.62	1-1/4 – 12	3/4 – 10	1.375	0.06	10000

KOD / CODE / CÓDIGO	l1 (in)	l2 (in)	l3 (in)	l4 (in)
A104-04-100-100	1.00	1.00	0.38	1.00
A104-04-100-125	1.25	1.00	0.38	1.25
A104-04-100-150	1.50	1.00	0.38	1.50
A104-04-100-175	1.75	1.00	0.38	1.75
A104-04-100-200	2.00	1.00	0.38	2.00
A104-04-100-225	2.25	1.00	0.38	2.25
A104-04-100-250	2.50	1.00	0.38	2.50
A104-04-100-275	2.75	1.00	0.38	2.75
A104-04-100-300	3.00	1.00	0.38	3.00
A104-04-100-325	3.25	1.00	0.38	3.25
A104-04-100-350	3.50	1.00	0.38	3.50
A104-04-106-100	1.00	1.00	0.375	1.00
A104-04-106-125	1.25	1.00	0.375	1.25
A104-04-106-150	1.50	1.00	0.375	1.50
A104-04-106-175	1.75	1.00	0.375	1.75
A104-04-106-200	2.00	1.00	0.375	2.00
A104-04-106-225	2.25	1.00	0.375	2.25
A104-04-106-250	2.50	1.00	0.375	2.50
A104-04-106-275	2.75	1.00	0.375	2.75
A104-04-106-300	3.00	1.00	0.375	3.00
A104-04-106-325	3.25	1.00	0.375	3.25
A104-04-106-350	3.50	1.00	0.375	3.50
A104-04-125-100	1.00	1.12	0.50	1.00
A104-04-125-125	1.25	1.12	0.50	1.25
A104-04-125-150	1.50	1.12	0.50	1.50
A104-04-125-175	1.75	1.12	0.50	1.75
A104-04-125-200	2.00	1.12	0.50	2.00
A104-04-125-225	2.25	1.12	0.50	2.25
A104-04-125-250	2.50	1.12	0.50	2.50

KOD / CODE / CÓDIGO	l1 (in)	l2 (in)	l3 (in)	l4 (in)
A104-04-125-275	2.75	1.12	0.50	2.75
A104-04-125-300	3.00	1.12	0.50	3.00
A104-04-125-325	3.25	1.12	0.50	3.25
A104-04-125-350	3.50	1.12	0.50	3.50
A104-04-125-375	3.75	1.12	0.50	3.75
A104-04-125-400	4.00	1.12	0.50	4.00
A104-04-125-450	4.50	1.12	0.50	4.50
A104-04-125-500	5.00	1.12	0.50	5.00
A104-04-125-550	5.50	1.12	0.50	5.50
A104-04-125-600	6.00	1.12	0.50	6.00
A104-04-162-100	1.00	1.12	0.50	1.25
A104-04-162-125	1.25	1.12	0.50	1.50
A104-04-162-150	1.50	1.12	0.50	1.75
A104-04-162-175	1.75	1.12	0.50	2.00
A104-04-162-200	2.00	1.12	0.50	2.25
A104-04-162-225	2.25	1.12	0.50	2.50
A104-04-162-250	2.50	1.12	0.50	2.75
A104-04-162-275	2.75	1.12	0.50	3.00
A104-04-162-300	3.00	1.12	0.50	3.25
A104-04-162-325	3.25	1.12	0.50	3.50
A104-04-162-350	3.50	1.12	0.50	3.75
A104-04-162-375	3.75	1.12	0.50	4.00
A104-04-162-400	4.00	1.12	0.50	4.25
A104-04-162-450	4.50	1.12	0.50	4.75
A104-04-162-500	5.00	1.12	0.50	5.25
A104-04-162-550	5.50	1.12	0.50	6.00
A104-04-162-600	6.00	1.12	0.50	6.50
A104-04-187-125	1.25	1.25	0.50	1.50
A104-04-187-150	1.50	1.25	0.50	1.75

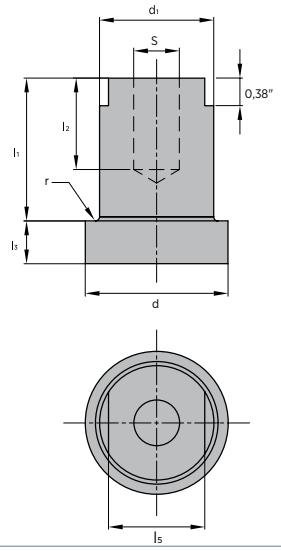
KOD / CODE / CÓDIGO	l1 (in)	l2 (in)	l3 (in)	l4 (in)
A104-04-187-175	1.75	1.25	0.50	2.00
A104-04-187-200	2.00	1.25	0.50	2.25
A104-04-187-225	2.25	1.25	0.50	2.50
A104-04-187-250	2.50	1.25	0.50	2.75
A104-04-187-275	2.75	1.25	0.50	3.00
A104-04-187-300	3.00	1.25	0.50	3.25
A104-04-187-325	3.25	1.25	0.50	3.50
A104-04-187-350	3.50	1.25	0.50	3.75
A104-04-187-375	3.75	1.25	0.50	4.00
A104-04-187-400	4.00	1.25	0.50	4.25
A104-04-187-450	4.50	1.25	0.50	5.00
A104-04-187-500	5.00	1.25	0.50	5.50
A104-04-187-550	5.50	1.25	0.50	6.00
A104-04-187-600	6.00	1.25	0.50	6.50
A104-04-200-150	1.50	1.38	0.50	2.00
A104-04-200-175	1.75	1.38	0.50	2.25
A104-04-200-200	2.00	1.38	0.50	2.50
A104-04-200-225	2.25	1.38	0.50	2.75
A104-04-200-250	2.50	1.38	0.50	3.00
A104-04-200-275	2.75	1.38	0.50	3.25
A104-04-200-300	3.00	1.38	0.50	3.50
A104-04-200-325	3.25	1.38	0.50	3.75
A104-04-200-350	3.50	1.38	0.50	4.00
A104-04-200-375	3.75	1.38	0.50	4.25
A104-04-200-400	4.00	1.38	0.50	4.50
A104-04-200-450	4.50	1.38	0.50	5.00
A104-04-200-500	5.00	1.38	0.50	5.50
A104-04-200-550	5.50	1.38	0.50	6.00
A104-04-200-600	6.00	1.38	0.50	6.50

2



Hammadde / Material :
AISI 1144 Steel

Hardened
HRC 28 ÷ 34



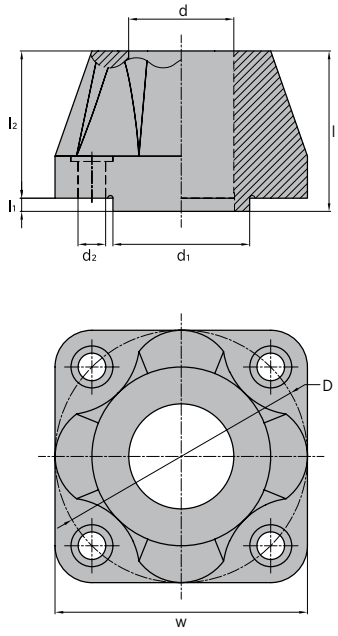
KOD / CODE / CÓDIGO	d (in)	d₁ (in) ± .005	S (in)	l₅ (in)	r (in)	Load Rating Lbs.
A104-05-100-100	1.00	0.75	5/16 - 18	0.625	0.03	1500
A104-05-106-100	1.06	0.81	5/16 - 18	0.690	0.03	1500
A104-05-125-100	1.25	1.00	3/8 - 16	0.875	0.03	3000
A104-05-162-125	1.62	1.25	1/2 - 13	1.125	0.06	5000
A104-05-187-150	1.87	1.50	5/8 - 11	1.250	0.06	7500
A104-05-200-175	2.00	1.62	3/4 - 10	1.375	0.06	10000

KOD / CODE / CÓDIGO	l₁ (in)	l₂ (in)	l₃ (in)
A104-05-100-100	1.00	0.625	0.38
A104-05-100-125	1.25	0.625	0.38
A104-05-100-150	1.50	0.625	0.38
A104-05-100-175	1.75	0.625	0.38
A104-05-100-200	2.00	0.625	0.38
A104-05-100-225	2.25	0.625	0.38
A104-05-100-250	2.50	0.625	0.38
A104-05-100-275	2.75	0.625	0.38
A104-05-100-300	3.00	0.625	0.38
A104-05-100-350	3.50	0.625	0.38
A104-05-100-375	3.75	0.625	0.38
A104-05-100-400	4.00	0.625	0.38
A104-05-100-450	4.50	0.625	0.38
A104-05-100-500	5.00	0.625	0.38
A104-05-100-550	5.50	0.625	0.38
A104-05-100-600	6.00	0.625	0.38
A104-05-106-100	1.00	0.625	0.38
A104-05-106-125	1.25	0.625	0.38
A104-05-106-150	1.50	0.625	0.38
A104-05-106-175	1.75	0.625	0.38
A104-05-106-200	2.00	0.625	0.38
A104-05-106-225	2.25	0.625	0.38
A104-05-106-250	2.50	0.625	0.38
A104-05-106-275	2.75	0.625	0.38
A104-05-106-300	3.00	0.625	0.38
A104-05-106-325	3.25	0.625	0.38
A104-05-106-350	3.50	0.625	0.38
A104-05-125-100	1.00	0.750	0.50
A104-05-125-125	1.25	0.750	0.50

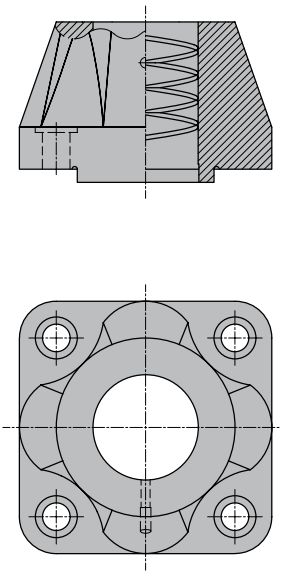
KOD / CODE / CÓDIGO	l₁ (in)	l₂ (in)	l₃ (in)
A104-05-125-150	1.50	0.750	0.50
A104-05-125-175	1.75	0.750	0.50
A104-05-125-200	2.00	0.750	0.50
A104-05-125-225	2.25	0.750	0.50
A104-05-125-250	2.50	0.750	0.50
A104-05-125-275	2.75	0.750	0.50
A104-05-125-300	3.00	0.750	0.50
A104-05-125-325	3.25	0.750	0.50
A104-05-125-350	3.50	0.750	0.50
A104-05-125-375	3.75	0.750	0.50
A104-05-125-400	4.00	0.750	0.50
A104-05-125-450	4.50	0.750	0.50
A104-05-125-500	5.00	0.750	0.50
A104-05-125-550	5.50	0.750	0.50
A104-05-125-600	6.00	0.750	0.50
A104-05-162-125	1.25	1.000	0.50
A104-05-162-150	1.50	1.000	0.50
A104-05-162-175	1.75	1.000	0.50
A104-05-162-200	2.00	1.000	0.50
A104-05-162-225	2.25	1.000	0.50
A104-05-162-250	2.50	1.000	0.50
A104-05-162-275	2.75	1.000	0.50
A104-05-162-300	3.00	1.000	0.50
A104-05-162-325	3.25	1.000	0.50
A104-05-162-350	3.50	1.000	0.50
A104-05-162-375	3.75	1.000	0.50
A104-05-162-400	4.00	1.000	0.50
A104-05-162-450	4.50	1.000	0.50
A104-05-162-500	5.00	1.000	0.50

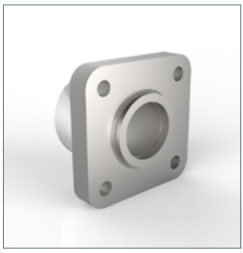
KOD / CODE / CÓDIGO	l₁ (in)	l₂ (in)	l₃ (in)
A104-05-162-550	5.50	1.000	0.50
A104-05-162-600	6.00	1.000	0.50
A104-05-187-150	1.50	1.250	0.50
A104-05-187-175	1.75	1.250	0.50
A104-05-187-200	2.00	1.250	0.50
A104-05-187-225	2.25	1.250	0.50
A104-05-187-250	2.50	1.250	0.50
A104-05-187-275	2.75	1.250	0.50
A104-05-187-300	3.00	1.250	0.50
A104-05-187-325	3.25	1.250	0.50
A104-05-187-350	3.50	1.250	0.50
A104-05-187-375	3.75	1.250	0.50
A104-05-187-400	4.00	1.250	0.50
A104-05-187-450	4.50	1.250	0.50
A104-05-187-500	5.00	1.250	0.50
A104-05-187-550	5.50	1.250	0.50
A104-05-187-600	6.00	1.250	0.50
A104-05-200-175	1.75	1.500	0.50
A104-05-200-200	2.00	1.500	0.50
A104-05-200-225	2.25	1.500	0.50
A104-05-200-250	2.50	1.500	0.50
A104-05-200-275	2.75	1.500	0.50
A104-05-200-300	3.00	1.500	0.50
A104-05-200-325	3.25	1.500	0.50
A104-05-200-350	3.50	1.500	0.50
A104-05-200-375	3.75	1.500	0.50
A104-05-200-400	4.00	1.500	0.50
A104-05-200-450	4.50	1.500	0.50
A104-05-200-500	5.00	1.500	0.50
A104-05-200-550	5.50	1.500	0.50
A104-05-200-600	6.00	1.500	0.50

Form A



Form B

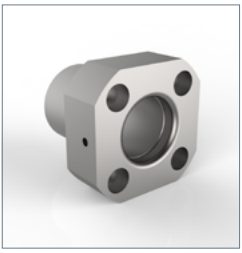




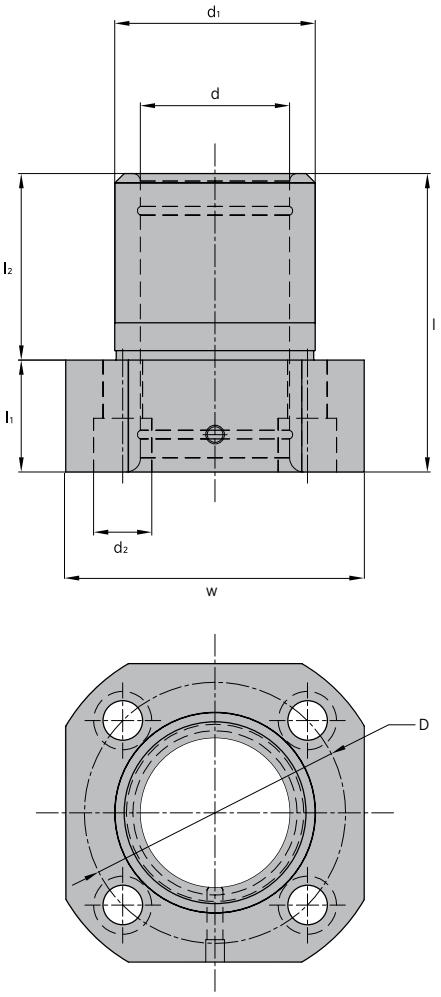
Hammadde / Material :

KOD / CODE / CÓDIGO	Form	d (in)	d_1 (in)	w (in)	D (in)	d_2 (in)	l (in)	l_1 (in)	l_2 (in)
A104-06-200-11316	A	2	2.5005	5	4 19/32	21/32	1 13/16	5/16	1 1/2
A104-06-200-31316	A	2	2.5005	5	4 19/32	21/32	3 13/16	5/16	3 1/2
A104-06-200-51316	A	2	2.5005	5	4 19/32	21/32	5 13/16	5/16	5 1/2
A104-06-212-11316	A	2 1/2	3.2505	6	6	21/32	1 13/16	5/16	1 1/2
A104-06-212-31316	A	2 1/2	3.2505	6	6	21/32	3 13/16	5/16	3 1/2
A104-06-212-51316	A	2 1/2	3.2505	6	6	21/32	5 13/16	5/16	5 1/2
A104-06-300-31316	A	3	3.7505	7	7 1/16	25/32	3 13/16	5/16	3 1/2
A104-06-300-51316	A	3	3.7505	7	7 1/16	25/32	5 13/16	5/16	5 1/2
A104-06-200-113161	B	2	2.5005	5	4 19/32	21/32	1 13/16	5/16	1 1/2
A104-06-200-313161	B	2	2.5005	5	4 19/32	21/32	3 13/16	5/16	3 1/2
A104-06-200-513161	B	2	2.5005	5	4 19/32	21/32	5 13/16	5/16	5 1/2
A104-06-212-113161	B	2 1/2	3.2505	6	6	21/32	1 13/16	5/16	1 1/2
A104-06-212-313161	B	2 1/2	3.2505	6	6	21/32	3 13/16	5/16	3 1/2
A104-06-212-513161	B	2 1/2	3.2505	6	6	21/32	5 13/16	5/16	5 1/2
A104-06-300-313161	B	3	3.7505	7	7 1/16	25/32	3 13/16	5/16	3 1/2
A104-06-300-513161	B	3	3.7505	7	7 1/16	25/32	5 13/16	5/16	5 1/2

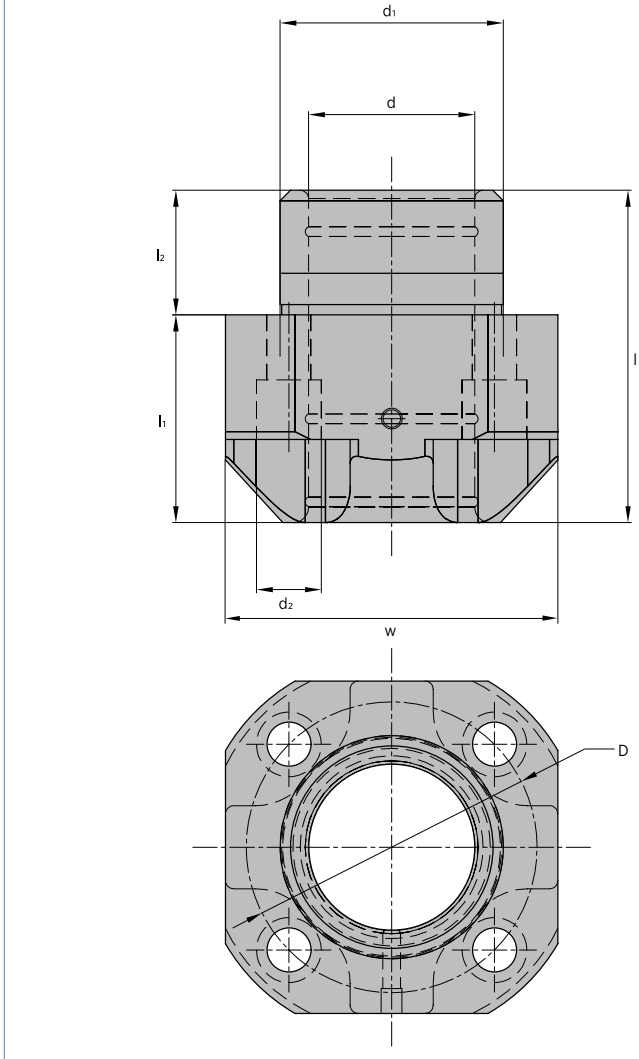
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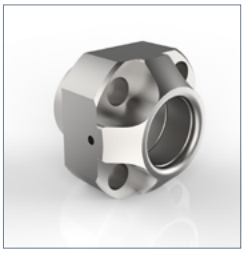


Hammadde / Material :



KOD / CODE / CÓDIGO	d (in)	l (in)	l1 (in)	l2 (in)	d1 (in)	d2 (in)	w (in)	D (in)
A104-07-200-400	2	4	1 1/2	2 1/2	2.6880	17/32	4	3 1/2
A104-07-212-412	2 1/2	4 1/2	1 1/2	3	3.4380	21/32	5	4 5/8

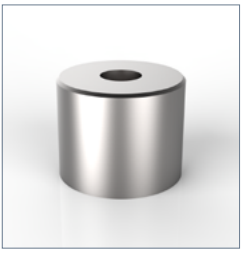




Hammadde / Material :

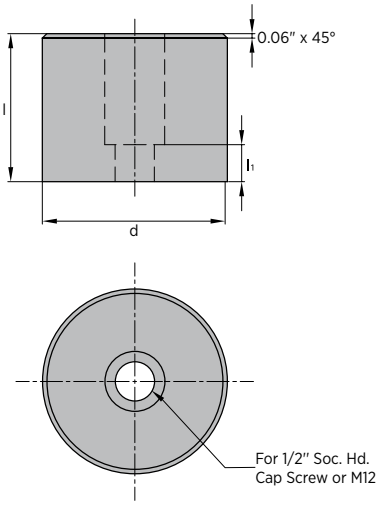
KOD / CODE / CÓDIGO	d (in)	d₁ (in)	d₂ (in)	w (in)	D (in)	l₁ (in)	l₂ (in)	l (in)
A104-08-200-400	2	2.6880	17/32	4	3 1/2	2 1/2	1 1/2	4
A104-08-212-412	2 1/2	3.4380	21/32	5	4 5/8	2 1/2	2	4 1/2

2



Hammadde / Material :
1018 Steel

The supplied length is intentionally manufactured 0.060" above the specified nominal dimension, allowing for final machining as required.



*l ≤ 2" - l1=0.50"
**l ≥ 2.50" - l1=1.38"

KOD / CODE / CÓDIGO	d (in)	l (in)
M318-10-200-150	2.00	1.50
M318-10-200-200	2.00	2.00
M318-10-200-250	2.00	2.50
M318-10-200-300	2.00	3.00
M318-10-200-350	2.00	3.50
M318-10-200-400	2.00	4.00
M318-10-200-425	2.00	4.25
M318-10-200-475	2.00	4.75
M318-10-200-525	2.00	5.25
M318-10-200-550	2.00	5.50
M318-10-200-600	2.00	6.00
M318-10-200-650	2.00	6.50
M318-10-250-150	2.50	1.50
M318-10-250-200	2.50	2.00
M318-10-250-250	2.50	2.50
M318-10-250-300	2.50	3.00
M318-10-250-350	2.50	3.50
M318-10-250-400	2.50	4.00
M318-10-250-425	2.50	4.25
M318-10-250-475	2.50	4.75
M318-10-250-525	2.50	5.25
M318-10-250-550	2.50	5.50
M318-10-250-600	2.50	6.00
M318-10-250-650	2.50	6.50

NOTLAR / NOTES / NOTAS

NOTLAR / NOTES / NOTAS



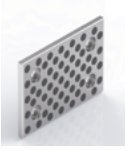
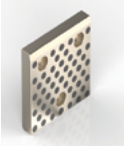
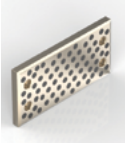
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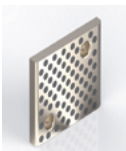
KILAVUZ ELEMANLARI
GUIDE ELEMENTS
ELEMENTOS DE GUIADO Y DESLIZAMIENTO

WEAR PRODUCTS

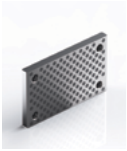
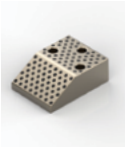
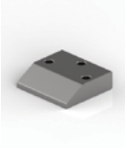
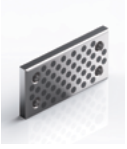
NOTLAR / NOTES / NOTAS

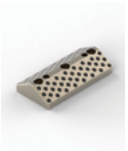
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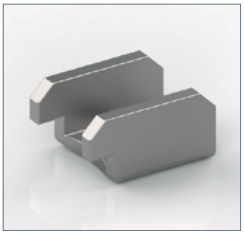
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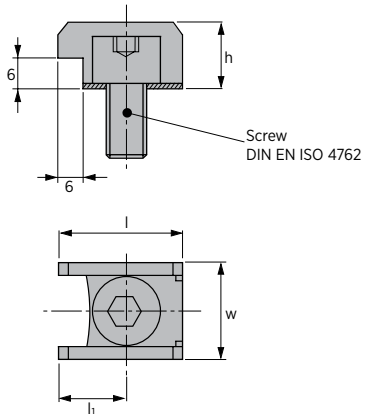
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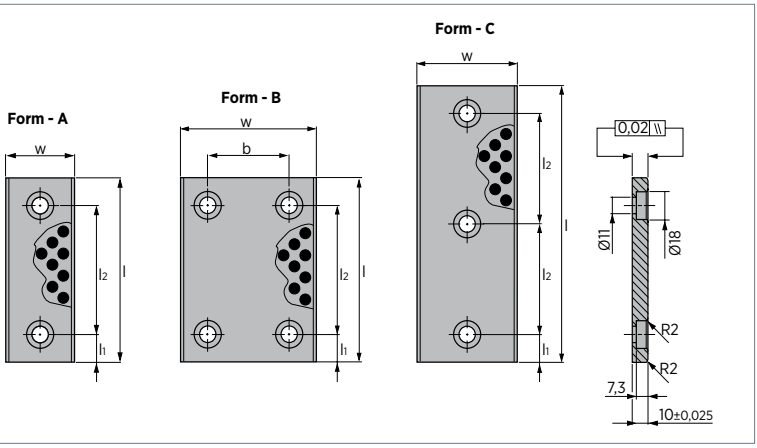


Hammadde / Material :
CK45

Screw not included.



KOD / CODE / CÓDIGO	w	h	l	l1	Screw
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A101-05-235-279	23.5	15.5	27.9	15	M10X20



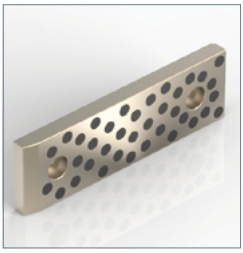


Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

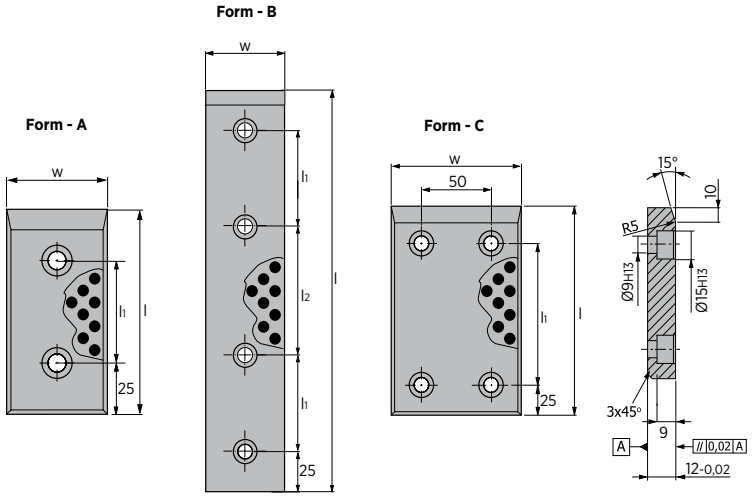
KOD / CODE / CÓDIGO	Form	w -0.1 / -0.3	l -0.1 / -0.3	l1	l2 ±0.2	b ±0.2
G220-03-028-075	A	28	75	15	45	-
G220-03-028-100	A	28	100	25	50	-
G220-03-028-125	A	28	125	25	75	-
G220-03-028-150	A	28	150	25	100	-
G220-03-038-075	A	38	75	15	45	-
G220-03-038-100	A	38	100	25	50	-
G220-03-038-125	A	38	125	25	75	-
G220-03-038-150	A	38	150	25	100	-
G220-03-048-075	A	48	75	15	45	-
G220-03-048-100	A	48	100	25	50	-
G220-03-048-125	A	48	125	25	75	-
G220-03-048-150	A	48	150	25	100	-
G220-03-048-200	A	48	200	50	100	-
G220-03-048-2001	A	48	200	25	150	-
G220-03-058-075	A	58	75	15	45	-
G220-03-058-100	A	58	100	25	50	-
G220-03-058-125	A	58	125	25	75	-
G220-03-058-150	A	58	150	25	100	-
G220-03-058-200	A	58	200	50	100	-
G220-03-075-0751	A	75	75	25	25	-
G220-03-075-075	A	75	75	15	45	-
G220-03-075-100	A	75	100	25	50	-
G220-03-075-125	A	75	125	25	75	-
G220-03-075-150	A	75	150	25	100	-
G220-03-075-200	C	75	200	25	75	-
G220-03-075-2001	A	75	200	25	150	-
G220-03-100-100	B	100	100	25	50	50
G220-03-100-125	B	100	125	25	75	50
G220-03-100-150	B	100	150	25	100	50
G220-03-100-200	B	100	200	25	150	50
G220-03-100-250	B	100	250	25	200	50
G220-03-125-150	B	125	150	25	100	50
G220-03-125-200	B	125	200	25	150	50
G220-03-125-250	B	125	250	25	200	50
G220-03-125-1251	B	125	125	25	75	75
G220-03-150-150	B	150	150	25	100	100
G220-03-150-200	B	150	200	25	150	100

3



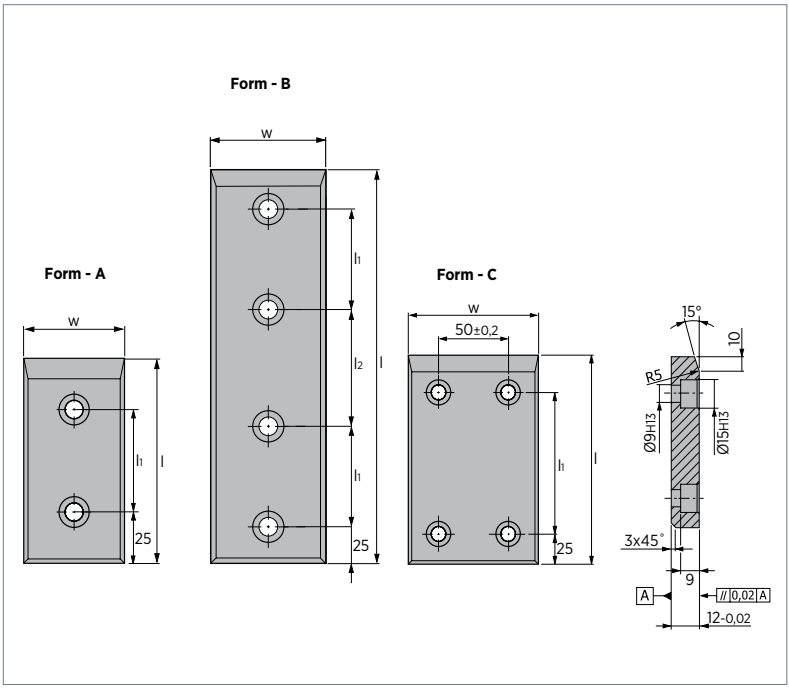
Hammadde / Material :
Bronze + Graphite

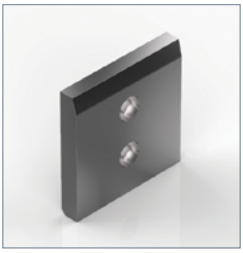
Hardness
HB ≥ 190



KOD / CODE / CÓDIGO	Form	w	l ±0,2	l1 ±0,2	l2 ±0,2
G222-01-030-080	A	30	80	30	-
G222-01-030-100	A	30	100	50	-
G222-01-030-125	A	30	125	75	-
G222-01-030-160	A	30	160	110	-
G222-01-030-200	A	30	200	150	-
G222-01-040-080	A	40	80	30	-
G222-01-040-100	A	40	100	50	-
G222-01-040-125	A	40	125	75	-
G222-01-040-160	A	40	160	110	-
G222-01-040-200	A	40	200	150	-
G222-01-050-080	A	50	80	30	-
G222-01-050-100	A	50	100	50	-
G222-01-050-125	A	50	125	75	-
G222-01-050-160	A	50	160	110	-
G222-01-050-180	A	50	180	130	-
G222-01-050-200	A	50	200	150	-
G222-01-050-250	B	50	250	60	80
G222-01-050-300	B	50	300	80	90

KOD / CODE / CÓDIGO	Form	w	l ±0,2	l1 ±0,2	l2 ±0,2
G222-01-050-350	B	50	350	100	100
G222-01-050-400	B	50	400	120	110
G222-01-060-080	A	60	80	30	-
G222-01-060-100	A	60	100	50	-
G222-01-060-125	A	60	125	75	-
G222-01-060-160	A	60	160	110	-
G222-01-060-200	A	60	200	150	-
G222-01-080-080	A	80	80	30	-
G222-01-080-100	A	80	100	50	-
G222-01-080-125	A	80	125	75	-
G222-01-080-160	A	80	160	110	-
G222-01-080-200	A	80	200	150	-
G222-01-100-125	C	100	125	75	-
G222-01-100-160	C	100	160	110	-
G222-01-100-200	C	100	200	150	-
G222-01-100-225	C	100	225	175	-
G222-01-100-250	C	100	250	200	-



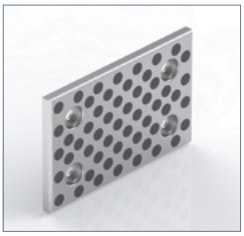


Hammadde / Material :
16MnCr5

Surface Hardened
HRC 60 ÷ 64

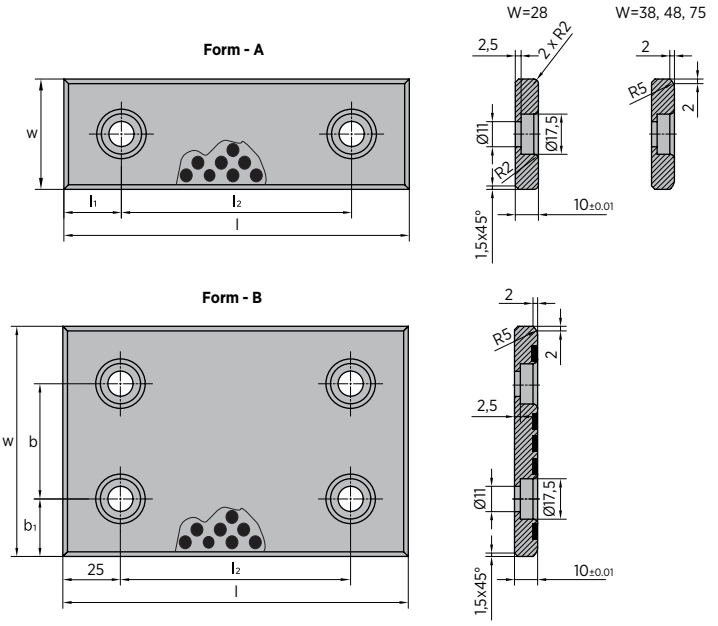
KOD / CODE / CÓDIGO	Form	w	l ±0.2	l1 ±0.2	l2 ±0.2
G223-01-030-080	A	30	80	30	-
G223-01-030-100	A	30	100	50	-
G223-01-030-125	A	30	125	75	-
G223-01-030-160	A	30	160	110	-
G223-01-030-200	A	30	200	150	-
G223-01-040-080	A	40	80	30	-
G223-01-040-100	A	40	100	50	-
G223-01-040-125	A	40	125	75	-
G223-01-040-160	A	40	160	110	-
G223-01-040-200	A	40	200	150	-
G223-01-050-080	A	50	80	30	-
G223-01-050-100	A	50	100	50	-
G223-01-050-125	A	50	125	75	-
G223-01-050-160	A	50	160	110	-
G223-01-050-180	A	50	180	130	-
G223-01-050-200	A	50	200	150	-
G223-01-050-250	B	50	250	60	80
G223-01-050-300	B	50	300	80	90

KOD / CODE / CÓDIGO	Form	w	l ±0.2	l1 ±0.2	l2 ±0.2
G223-01-050-350	B	50	350	100	100
G223-01-050-400	B	50	400	120	110
G223-01-060-080	A	60	80	30	-
G223-01-060-100	A	60	100	50	-
G223-01-060-125	A	60	125	75	-
G223-01-060-160	A	60	160	110	-
G223-01-060-180	A	60	180	130	-
G223-01-060-200	A	60	200	150	-
G223-01-080-080	A	80	80	30	-
G223-01-080-100	A	80	100	50	-
G223-01-080-125	A	80	125	75	-
G223-01-080-160	A	80	160	110	-
G223-01-080-200	A	80	200	150	-
G223-01-100-125	C	100	125	75	-
G223-01-100-160	C	100	160	110	-
G223-01-100-200	C	100	200	150	-
G223-01-100-225	C	100	225	175	-
G223-01-100-250	C	100	250	200	-

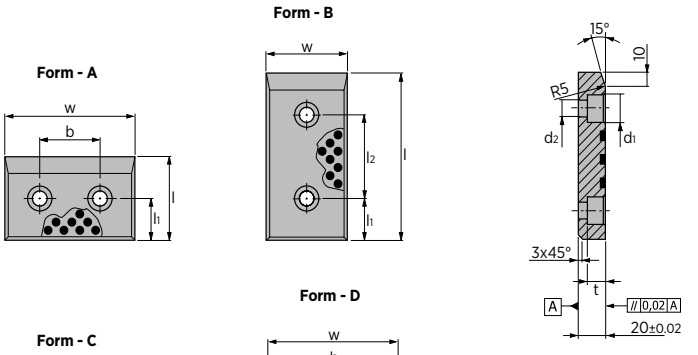


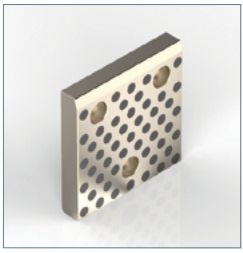
Hammadde / Material :
C105W1

Hardened
HRC50



KOD / CODE / CÓDIGO	Form	w -0.1 / -0.3	l -0.1 / -0.3	l_1	l_2 ±0.2	b ±0.2	b_1
G223-02-028-075	A	28	75	15	45	-	-
G223-02-028-100	A	28	100	25	50	-	-
G223-02-028-125	A	28	125	25	75	-	-
G223-02-028-150	A	28	150	25	100	-	-
G223-02-038-075	A	38	75	15	45	-	-
G223-02-038-100	A	38	100	25	50	-	-
G223-02-038-125	A	38	125	25	75	-	-
G223-02-038-150	A	38	150	25	100	-	-
G223-02-048-075	A	48	75	15	45	-	-
G223-02-048-100	A	48	100	25	50	-	-
G223-02-048-125	A	48	125	25	75	-	-
G223-02-048-150	A	48	150	25	100	-	-
G223-02-075-075	A	75	75	25	25	-	-
G223-02-075-100	A	75	100	25	50	-	-
G223-02-075-125	A	75	125	25	75	-	-
G223-02-075-150	A	75	150	25	100	-	-
G223-02-100-100	B	100	100	-	50	50	25
G223-02-100-125	B	100	125	-	75	50	25
G223-02-100-150	B	100	150	-	100	50	25
G223-02-100-200	B	100	200	-	150	50	25
G223-02-125-125	B	125	125	-	75	50	37.5
G223-02-125-150	B	125	150	-	100	50	37.5



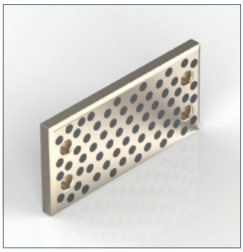


Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

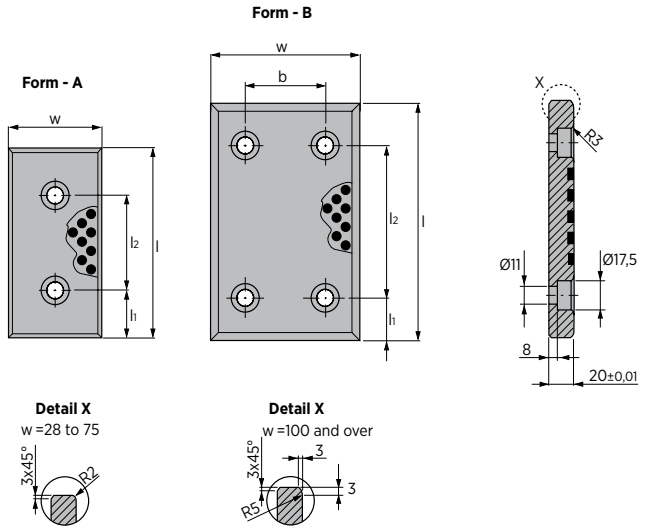
KOD / CODE / CÓDIGO	Form	w	l ±0.2	l1 ±0.2	l2 ±0.2	d1 H13	d2 H13	b ±0.2	t
G224-01-050-080	B	50	80	25	30	15	9	-	9
G224-01-050-100	B	50	100	25	50	20	13.5	-	13
G224-01-050-125	B	50	125	25	75	20	13.5	-	13
G224-01-050-160	B	50	160	25	110	20	13.5	-	13
G224-01-050-200	B	50	200	25	150	20	13.5	-	13
G224-01-080-050	A	80	50	25	-	15	9	30	9
G224-01-080-080	B	80	80	25	30	20	13.5	-	13
G224-01-080-100	B	80	100	25	50	20	13.5	-	13
G224-01-080-125	B	80	125	25	75	20	13.5	-	13
G224-01-080-160	B	80	160	25	110	20	13.5	-	13
G224-01-080-200	B	80	200	25	150	20	13.5	-	13
G224-01-080-250	B	80	250	40	170	20	13.5	-	13
G224-01-080-315	B	80	315	40	235	20	13.5	-	13
G224-01-100-050	A	100	50	25	-	20	13.5	50	13
G224-01-100-080	A	100	80	40	-	20	13.5	50	13
G224-01-100-100	B	100	100	25	50	20	13.5	-	13
G224-01-100-125	B	100	125	25	75	20	13.5	-	13
G224-01-100-160	B	100	160	25	110	20	13.5	-	13
G224-01-100-200	B	100	200	25	150	20	13.5	-	13
G224-01-100-250	B	100	250	40	170	20	13.5	-	13
G224-01-100-315	B	100	315	40	235	20	13.5	-	13

KOD / CODE / CÓDIGO	Form	w	l ±0.2	l1 ±0.2	l2 ±0.2	d1 H13	d2 H13	b ±0.2	t
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G224-01-125-080	A	125	80	40	-	20	13.5	75	13
G224-01-125-100	C	125	100	25	50	20	13.5	75	13
G224-01-125-125	C	125	125	25	75	20	13.5	75	13
G224-01-125-160	C	125	160	25	110	20	13.5	75	13
G224-01-125-200	C	125	200	25	150	20	13.5	75	13
G224-01-125-250	C	125	250	40	170	20	13.5	75	13
G224-01-125-315	C	125	315	40	235	20	13.5	75	13
G224-01-160-050	A	160	50	25	-	20	13.5	110	13
G224-01-160-080	A	160	80	40	-	20	13.5	110	13
G224-01-160-100	C	160	100	25	50	20	13.5	110	13
G224-01-160-125	C	160	125	25	75	20	13.5	110	13
G224-01-160-160	C	160	160	25	110	20	13.5	110	13
G224-01-160-200	C	160	200	25	150	20	13.5	110	13
G224-01-160-250	D	160	250	40	170	20	13.5	110	13
G224-01-160-315	D	160	315	40	235	20	13.5	110	13
G224-01-160-2501	C	160	250	40	170	20	13.5	110	13
G224-01-160-3151	C	160	315	40	235	20	13.5	110	13



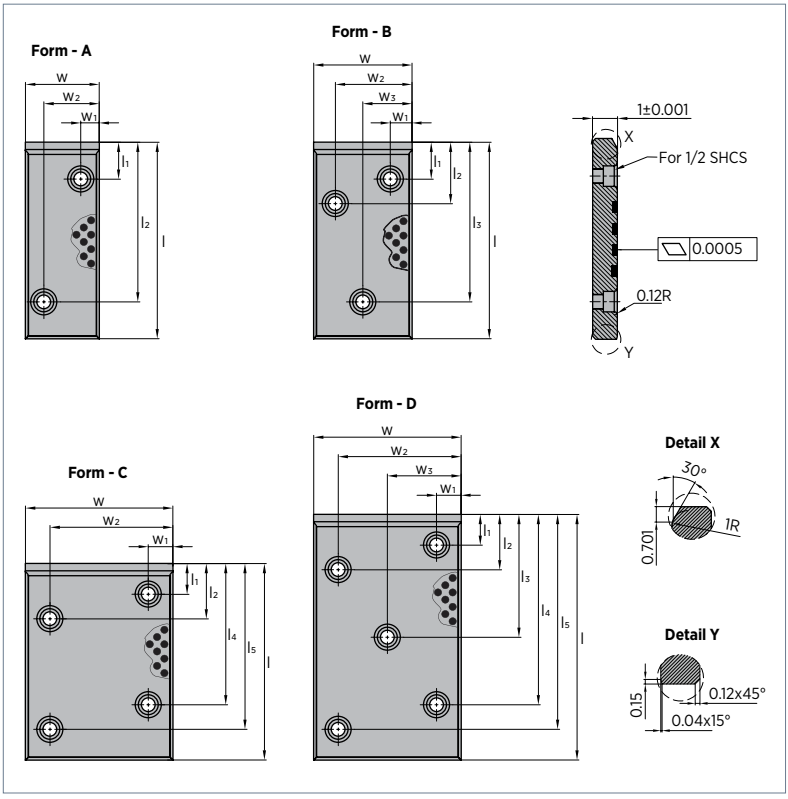
Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190



KOD / CODE / CÓDIGO	Form	w -0.1 / -0.3	l -0.1 / -0.3	l1	l2 ±0.2	b
G224-02-028-075	A	28	75	15	45	-
G224-02-028-100	A	28	100	25	50	-
G224-02-028-150	A	28	150	25	100	-
G224-02-038-075	A	38	75	15	45	-
G224-02-038-100	A	38	100	25	50	-
G224-02-038-150	A	38	150	25	100	-
G224-02-038-200	A	38	200	25	150	-
G224-02-048-075	A	48	75	15	45	-
G224-02-048-100	A	48	100	25	50	-
G224-02-048-125	A	48	125	25	75	-
G224-02-048-150	A	48	150	25	100	-
G224-02-048-200	A	48	200	25	150	-
G224-02-058-075	A	58	75	15	45	-
G224-02-058-100	A	58	100	25	50	-
G224-02-058-150	A	58	150	25	100	-
G224-02-075-075	A	75	75	15	45	-
G224-02-075-100	A	75	100	25	50	-
G224-02-075-125	A	75	125	25	75	-
G224-02-075-150	A	75	150	25	100	-
G224-02-075-200	A	75	200	25	150	-

KOD / CODE / CÓDIGO	Form	w -0.1 / -0.3	l -0.1 / -0.3	l1	l2 ±0.2	b
G224-02-100-100	B	100	100	25	50	50
G224-02-100-125	B	100	125	25	75	50
G224-02-100-150	B	100	150	25	100	50
G224-02-100-200	B	100	200	25	150	50
G224-02-100-250	B	100	250	25	200	50
G224-02-100-300	B	100	300	25	250	50
G224-02-125-125	B	125	125	25	75	50
G224-02-125-150	B	125	150	25	100	50
G224-02-125-200	B	125	200	25	150	50
G224-02-125-250	B	125	250	25	200	50
G224-02-125-300	B	125	300	25	250	50
G224-02-125-350	B	125	350	25	300	50
G224-02-150-150	B	150	150	25	100	100
G224-02-150-200	B	150	200	25	150	100
G224-02-150-250	B	150	250	25	200	100
G224-02-150-300	B	150	300	25	250	100
G224-02-150-350	B	150	350	25	300	100
G224-02-200-200	B	200	200	25	150	150
G224-02-200-250	B	200	250	25	200	150
G224-02-200-300	B	200	300	25	250	150
G224-02-200-350	B	200	350	25	300	150





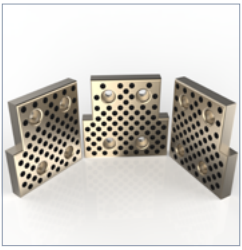
Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

KOD / CODE / CÓDIGO	Form	w	l	w1	w3	w2	l1	l2	l3	l4	l5
G224-04-2508	A	2.5	8	1.25	-	1.25	1.5	6.5	-	-	-
G224-04-3025	A	3	2.5	0.75	-	2.25	1.25	1.25	-	-	-
G224-04-303	A	3	3	0.75	-	2.25	1.75	1.75	-	-	-
G224-04-304	A	3	4	0.75	-	2.25	1.25	2.75	-	-	-
G224-04-305	A	3	5	0.75	-	2.25	1.5	3.75	-	-	-
G224-04-306	A	3	6	0.75	-	2.25	1.5	4.5	-	-	-
G224-04-308	A	3	8	0.75	-	2.25	1.5	6.5	-	-	-
G224-04-310	B	3	10	0.75	1.5	2.25	1.5	2.5	8.5	-	-
G224-04-312	B	3	12	0.75	1.5	2.25	1.5	2.5	10.5	-	-
G224-04-4025	A	4	2.5	1.25	-	2.75	1.25	1.25	-	-	-
G224-04-403	A	4	3	1	-	3	1.5	2.25	-	-	-
G224-04-404	A	4	4	1	-	3	1.25	2.75	-	-	-
G224-04-405	A	4	5	0.88	-	3.12	1.5	3.75	-	-	-
G224-04-406	A	4	6	0.88	-	3.12	1.5	4.5	-	-	-
G224-04-408	B	4	8	0.88	2	3.12	1.5	2.5	6.5	-	-
G224-04-410	B	4	10	0.88	2	3.12	1.5	2.5	8.5	-	-
G224-04-412	B	4	12	0.88	2	3.12	1.5	2.5	10.5	-	-
G224-04-5025	A	5	2.5	1.25	-	3.75	1.25	1.25	-	-	-

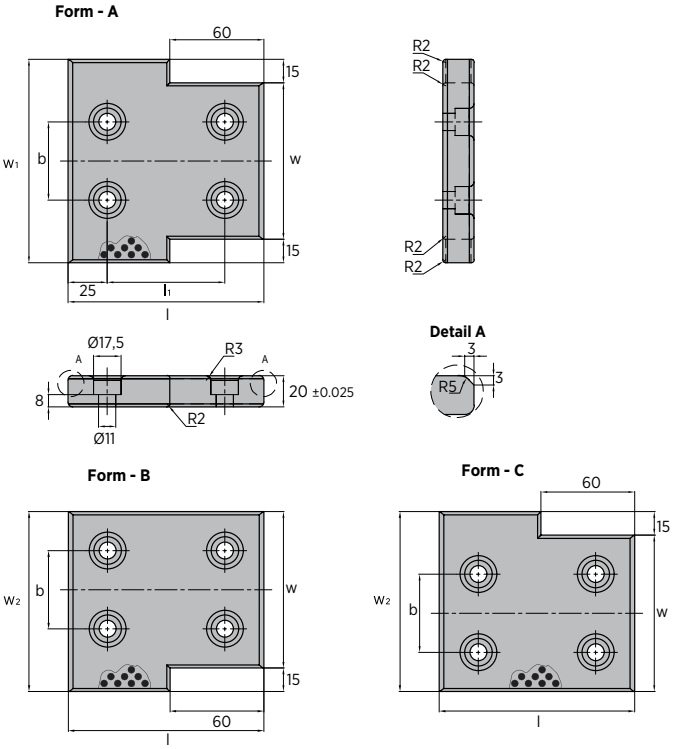
KOD / CODE / CÓDIGO	Form	w	l	w1	w3	w2	l1	l2	l3	l4	l5
G224-04-504	A	5	4	1	-	4	1.5	2.75	-	-	-
G224-04-505	A	5	5	1	-	4	1.5	3.75	-	-	-
G224-04-506	A	5	6	1	-	4	1.5	4.5	-	-	-
G224-04-508	B	5	8	1	2.5	4	1.5	2.5	6.5	-	-
G224-04-510	B	5	10	1	2.5	4	1.5	2.5	8.5	-	-
G224-04-512	C	5	12	1	-	4	1.5	2.5	-	9.5	10.5
G224-04-6025	A	6	2.50	1.5	-	4.5	1.25	1.25	-	-	-
G224-04-603	B	6	3	1	3	5	1.25	1.25	1.75	-	-
G224-04-604	B	6	4	1	3	5	1.25	2.25	2.75	-	-
G224-04-605	A	6	5	1.12	-	4.88	1.5	3.75	-	-	-
G224-04-606	C	6	6	1	-	5	1.25	2.25	-	3.75	4.75
G224-04-608	C	6	8	1	-	5	1.25	2.25	-	5.75	6.75
G224-04-610	D	6	10	1	3	5	1.25	2.25	5	7.75	8.75
G224-04-612	D	6	12	1	3	5	1.25	2.25	6	9.75	10.75
G224-04-8025	A	8	2.5	1.5	-	6.5	1.25	1.25	-	-	-
G224-04-805	A	8	5	1.25	-	6.75	1.5	3.75	-	-	-
G224-04-806	C	8	6	1	-	7	1.25	2.25	-	3.75	4.75
G224-04-1025	A	10	2.5	1.75	-	8.25	1.25	1.25	-	-	-

3



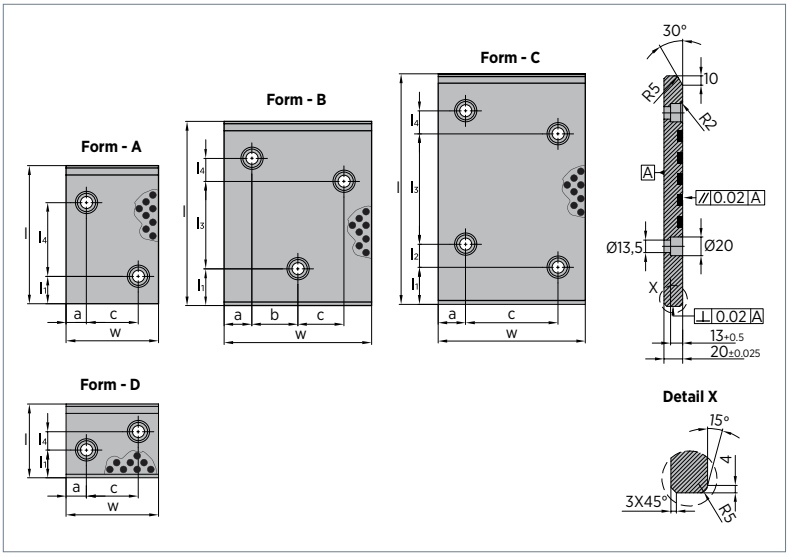
Hammadde / Material :
Bronze + Graphite

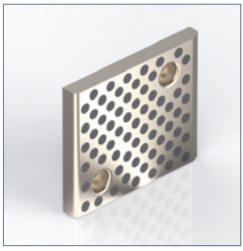
Hardness
HB ≥ 190



KOD / CODE / CÓDIGO	Form	w	l	w1	w2	b ±0.2	l1 ±0.2
G224-05-075-100	A	75	100	105	90	40	50
G224-05-075-125	A	75	125	105	90	40	75
G224-05-075-150	A	75	150	105	90	40	100
G224-05-100-125	A	100	125	130	115	50	75
G224-05-100-150	A	100	150	130	115	50	100
G224-05-125-150	A	125	150	155	140	75	100
G224-05-125-200	A	125	200	155	140	75	150
G224-05-125-250	A	125	250	155	140	75	200
G224-05-150-200	A	150	200	180	165	100	150
G224-05-150-250	A	150	250	180	165	100	200
G224-05-075-1001	B	75	100	105	90	40	50
G224-05-075-1251	B	75	125	105	90	40	75
G224-05-075-1501	B	75	150	105	90	40	100
G224-05-100-1251	B	100	125	130	115	50	75
G224-05-100-1501	B	100	150	130	115	50	100

KOD / CODE / CÓDIGO	Form	w	l	w1	w2	b ±0.2	l1 ±0.2
G224-05-125-1501	B	125	150	155	140	75	100
G224-05-125-2001	B	125	200	155	140	75	150
G224-05-125-2501	B	125	250	155	140	75	200
G224-05-150-2001	B	150	200	180	165	100	150
G224-05-150-2501	B	150	250	180	165	100	200
G224-05-075-1002	C	75	100	105	90	40	50
G224-05-075-1252	C	75	125	105	90	40	75
G224-05-075-1502	C	75	150	105	90	40	100
G224-05-100-1252	C	100	125	130	115	50	75
G224-05-100-1502	C	100	150	130	115	50	100
G224-05-125-1502	C	125	150	155	140	75	100
G224-05-125-2002	C	125	200	155	140	75	150
G224-05-125-2502	C	125	250	155	140	75	200
G224-05-150-2002	C	150	200	180	165	100	150
G224-05-150-2502	C	150	250	180	165	100	200



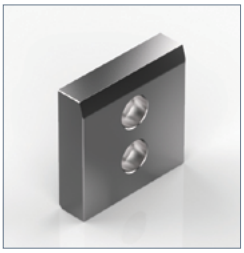


Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

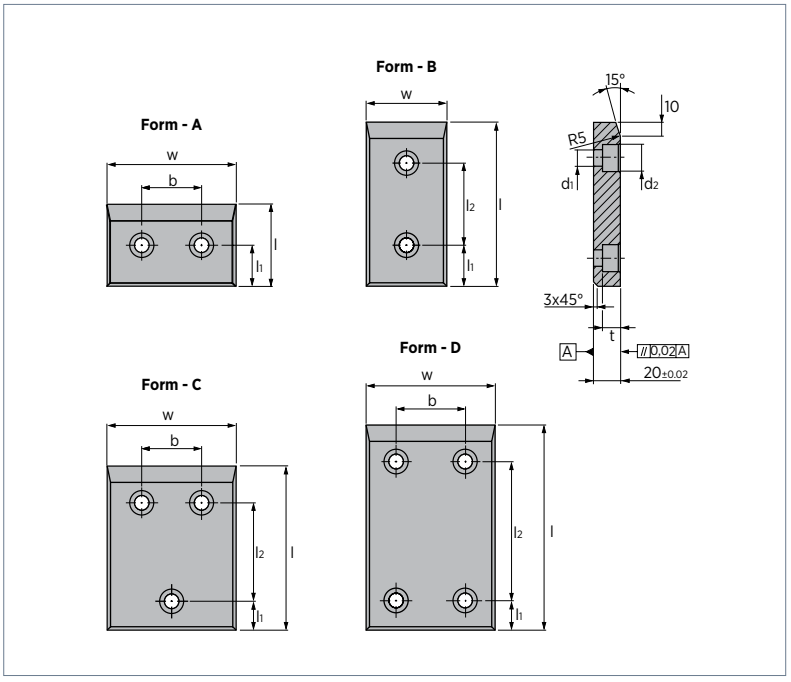
KOD / CODE / CÓDIGO	form	w	l	a	b	c	l1	l2	l3	l4
G224-07-050-100	A	50	100	25	-	-	30	-	-	30
G224-07-050-150	A	50	150	25	-	-	30	-	-	80
G224-07-050-200	A	50	200	25	-	-	40	-	-	120
G224-07-080-100	A	80	100	20	-	40	30	-	-	30
G224-07-080-150	A	80	150	20	-	40	30	-	-	80
G224-07-080-200	A	80	200	20	-	40	40	-	-	120
G224-07-080-250	A	80	250	20	-	40	40	-	-	170
G224-07-080-315	B	80	315	20	20	20	40	-	210	25
G224-07-100-050	D	100	50	22	-	56	14	-	-	13
G224-07-100-080	D	100	80	22	-	56	30	-	-	20
G224-07-100-100	A	100	100	22	-	56	30	-	-	30
G224-07-100-150	A	100	150	22	-	56	30	-	-	80
G224-07-100-200	B	100	200	22	28	28	40	-	95	25
G224-07-100-250	B	100	250	22	28	28	40	-	145	25
G224-07-100-315	B	100	315	22	28	28	40	-	210	25
G224-07-125-080	D	125	80	25	-	75	30	-	-	20
G224-07-125-100	A	125	100	25	-	75	30	-	-	30
G224-07-125-150	A	125	150	25	-	75	30	-	-	80
G224-07-125-200	B	125	200	25	37	38	40	-	95	25
G224-07-125-250	B	125	250	25	37	38	40	-	145	25
G224-07-125-315	C	125	315	25	-	75	40	25	185	25
G224-07-160-100	A	160	100	30	-	100	30	-	-	30
G224-07-160-150	A	160	150	30	-	100	30	-	-	80
G224-07-160-200	B	160	200	30	50	50	40	-	95	25
G224-07-160-250	C	160	250	30	-	100	40	25	120	25
G224-07-160-315	C	160	315	30	-	100	40	25	185	25

3



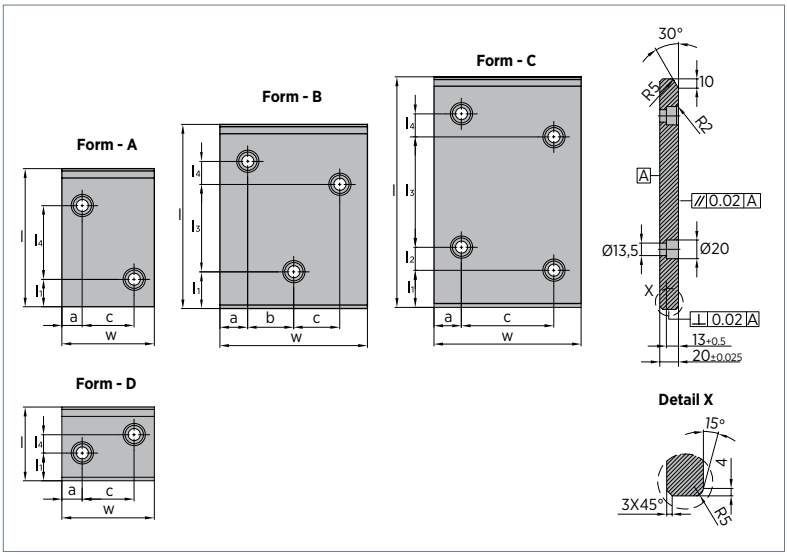
Hammadde / Material :
16MnCr5

Surface Hardened
HRC 60 ÷ 64



KOD / CODE / CÓDIGO	Form	w	l ±0.2	l1 ±0.2	l2 ±0.2	b ±0.2	d1 H13	d2 H13	t
G225-01-050-080	B	50	80	25	30	-	9	15	9
G225-01-050-100	B	50	100	25	50	-	13.5	20	13
G225-01-050-125	B	50	125	25	75	-	13.5	20	13
G225-01-050-160	B	50	160	25	110	-	13.5	20	13
G225-01-050-200	B	50	200	25	150	-	13.5	20	13
G225-01-080-050	A	80	50	25	-	30	9	15	9
G225-01-080-080	B	80	80	25	30	-	13.5	20	13
G225-01-080-100	B	80	100	25	50	-	13.5	20	13
G225-01-080-125	B	80	125	25	75	-	13.5	20	13
G225-01-080-160	B	80	160	25	110	-	13.5	20	13
G225-01-080-200	B	80	200	25	150	-	13.5	20	13
G225-01-080-250	B	80	250	40	170	-	13.5	20	13
G225-01-080-315	B	80	315	40	235	-	13.5	20	13
G225-01-100-050	A	100	50	25	-	50	13.5	20	13
G225-01-100-080	A	100	80	40	-	50	13.5	20	13
G225-01-100-100	B	100	100	25	50	-	13.5	20	13
G225-01-100-125	B	100	125	25	75	-	13.5	20	13
G225-01-100-160	B	100	160	25	110	-	13.5	20	13
G225-01-100-200	B	100	200	25	150	-	13.5	20	13
G225-01-100-250	B	100	250	40	170	-	13.5	20	13
G225-01-100-315	B	100	315	40	235	-	13.5	20	13

KOD / CODE / CÓDIGO	Form	w	l ±0.2	l1 ±0.2	l2 ±0.2	b ±0.2	d1 H13	d2 H13	t
G225-01-125-050	A	125	50	25	-	75	13.5	20	13
G225-01-125-080	A	125	80	40	-	75	13.5	20	13
G225-01-125-100	C	125	100	25	50	75	13.5	20	13
G225-01-125-125	C	125	125	25	75	75	13.5	20	13
G225-01-125-160	C	125	160	25	110	75	13.5	20	13
G225-01-125-200	C	125	200	25	150	75	13.5	20	13
G225-01-125-250	C	125	250	40	170	75	13.5	20	13
G225-01-125-315	C	125	315	40	235	75	13.5	20	13
G225-01-160-050	A	160	50	25	-	110	13.5	20	13
G225-01-160-080	A	160	80	40	-	110	13.5	20	13
G225-01-160-100	C	160	100	25	50	110	13.5	20	13
G225-01-160-125	C	160	125	25	75	110	13.5	20	13
G225-01-160-160	C	160	160	25	110	110	13.5	20	13
G225-01-160-200	C	160	200	25	150	110	13.5	20	13
G225-01-160-250	D	160	250	40	170	110	13.5	20	13
G225-01-160-315	D	160	315	40	235	110	13.5	20	13
G225-01-160-2501	C	160	250	40	170	110	13.5	20	13
G225-01-160-3151	C	160	315	40	235	110	13.5	20	13





Hammadde / Material :
16MnCr5

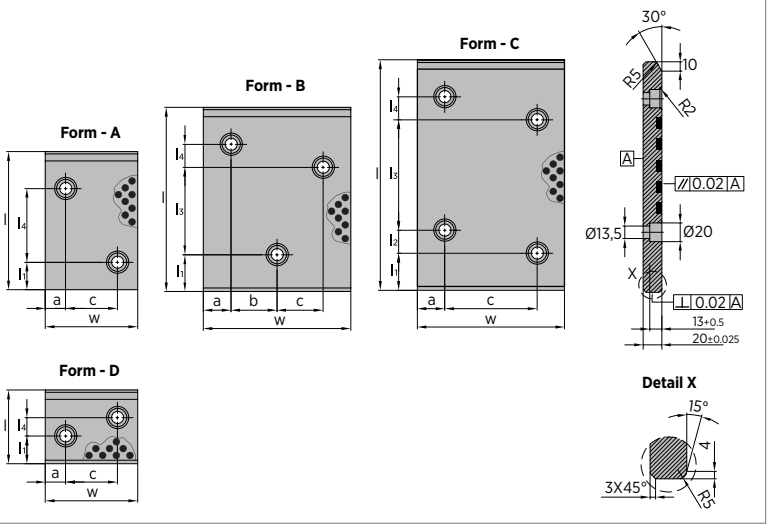
Surface Hardened
HRC 60 ÷ 64

KOD / CODE / CÓDIGO	form	w	l	a	b	c	l1	l2	l3	l4
G225-05-050-100	A	50	100	25	-	-	30	-	-	30
G225-05-050-150	A	50	150	25	-	-	30	-	-	80
G225-05-050-200	A	50	200	25	-	-	40	-	-	120
G225-05-080-100	A	80	100	20	-	40	30	-	-	30
G225-05-080-150	A	80	150	20	-	40	30	-	-	80
G225-05-080-200	A	80	200	20	-	40	40	-	-	120
G225-05-080-250	A	80	250	20	-	40	40	-	-	170
G225-05-080-315	B	80	315	20	20	20	40	-	210	25
G225-05-100-050	D	100	50	22	-	56	14	-	-	13
G225-05-100-080	D	100	80	22	-	56	30	-	-	20
G225-05-100-100	A	100	100	22	-	56	30	-	-	30
G225-05-100-150	A	100	150	22	-	56	30	-	-	80
G225-05-100-200	B	100	200	22	28	28	40	-	95	25
G225-05-100-250	B	100	250	22	28	28	40	-	145	25
G225-05-100-315	B	100	315	22	28	28	40	-	210	25
G225-05-125-080	D	125	80	25	-	75	30	-	-	20
G225-05-125-100	A	125	100	25	-	75	30	-	-	30
G225-05-125-150	A	125	150	25	-	75	30	-	-	80
G225-05-125-200	B	125	200	25	37	38	40	-	95	25
G225-05-125-250	B	125	250	25	37	38	40	-	145	25
G225-05-125-315	C	125	315	25	-	75	40	25	185	25
G225-05-160-100	A	160	100	30	-	100	30	-	-	30
G225-05-160-150	A	160	150	30	-	100	30	-	-	80
G225-05-160-200	B	160	200	30	50	50	40	-	95	25
G225-05-160-250	C	160	250	30	-	100	40	25	120	25
G225-05-160-315	C	160	315	30	-	100	40	25	185	25

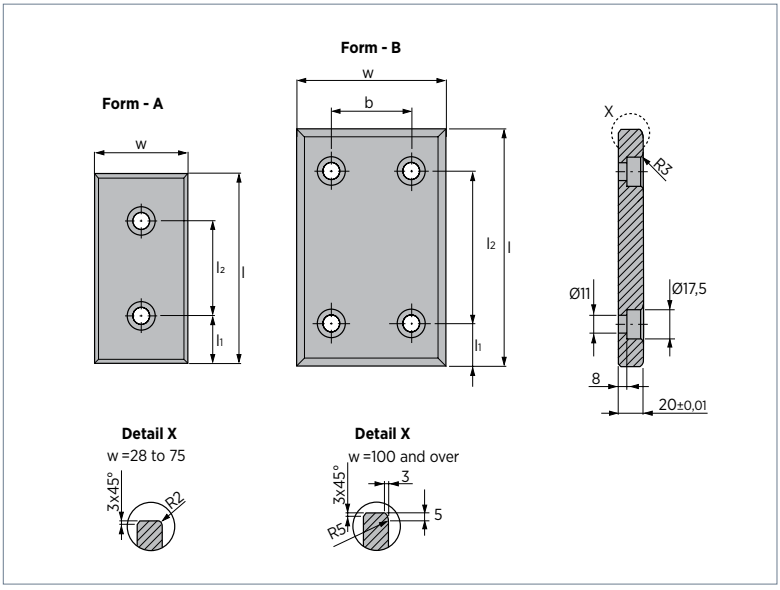


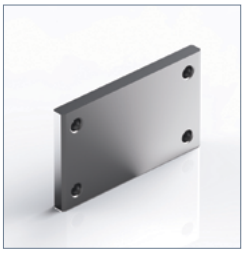
Hammadde / Material :
Steel + Graphite

Surface Hardened
HRC 60 ÷ 64



KOD / CODE / CÓDIGO	form	w	l	a	b	c	l_1	l_2	l_3	l_4
G225-06-050-100	A	50	100	25	-	-	30	-	-	30
G225-06-050-150	A	50	150	25	-	-	30	-	-	80
G225-06-050-200	A	50	200	25	-	-	40	-	-	120
G225-06-080-100	A	80	100	20	-	40	30	-	-	30
G225-06-080-150	A	80	150	20	-	40	30	-	-	80
G225-06-080-200	A	80	200	20	-	40	40	-	-	120
G225-06-080-250	A	80	250	20	-	40	40	-	-	170
G225-06-080-315	B	80	315	20	20	20	40	-	210	25
G225-06-100-050	D	100	50	22	-	56	14	-	-	13
G225-06-100-080	D	100	80	22	-	56	30	-	-	20
G225-06-100-100	A	100	100	22	-	56	30	-	-	30
G225-06-100-150	A	100	150	22	-	56	30	-	-	80
G225-06-100-200	B	100	200	22	28	28	40	-	95	25
G225-06-100-250	B	100	250	22	28	28	40	-	145	25
G225-06-100-315	B	100	315	22	28	28	40	-	210	25
G225-06-125-080	D	125	80	25	-	75	30	-	-	20
G225-06-125-100	A	125	100	25	-	75	30	-	-	30
G225-06-125-150	A	125	150	25	-	75	30	-	-	80
G225-06-125-200	B	125	200	25	37	38	40	-	95	25
G225-06-125-250	B	125	250	25	37	38	40	-	145	25
G225-06-125-315	C	125	315	25	-	75	40	25	185	25
G225-06-160-100	A	160	100	30	-	100	30	-	-	30
G225-06-160-150	A	160	150	30	-	100	30	-	-	80
G225-06-160-200	B	160	200	30	50	50	40	-	95	25
G225-06-160-250	C	160	250	30	-	100	40	25	120	25
G225-06-160-315	C	160	315	30	-	100	40	25	185	25



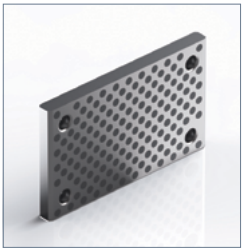


Hammadde / Material :
1.7131 (16MnCr5)

Hardened
HRC 60 - 64

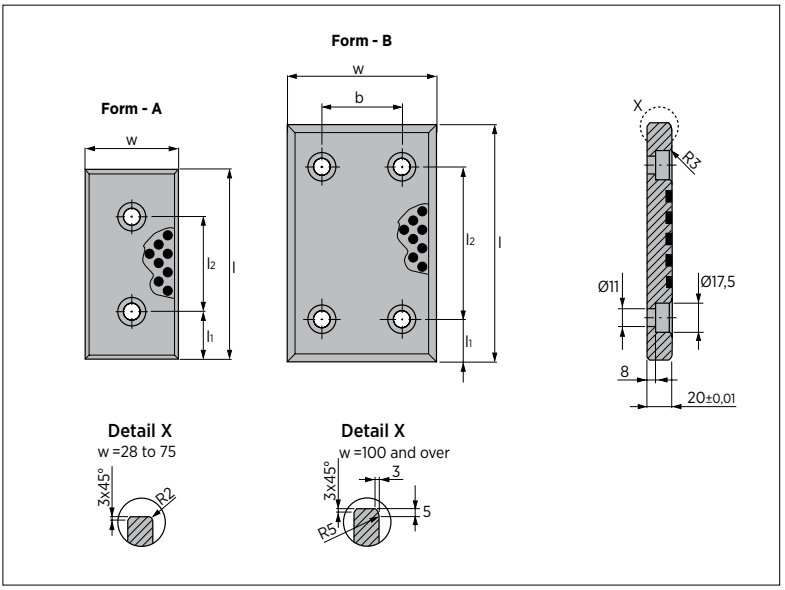
KOD / CODE / CÓDIGO	Form	w -0.1 / -0.3	l -0.1 / -0.3	l_1	l_2 ±0.2	b
G225-12-028-075	A	28	75	15	45	-
G225-12-028-100	A	28	100	25	50	-
G225-12-028-150	A	28	150	25	100	-
G225-12-038-075	A	38	75	15	45	-
G225-12-038-100	A	38	100	25	50	-
G225-12-038-150	A	38	150	25	100	-
G225-12-038-200	A	38	200	25	150	-
G225-12-048-075	A	48	75	15	45	-
G225-12-048-100	A	48	100	25	50	-
G225-12-048-125	A	48	125	25	75	-
G225-12-048-150	A	48	150	25	100	-
G225-12-048-200	A	48	200	25	150	-
G225-12-058-075	A	58	75	15	45	-
G225-12-058-100	A	58	100	25	50	-
G225-12-058-150	A	58	150	25	100	-
G225-12-075-075	A	75	75	15	45	-
G225-12-075-100	A	75	100	25	50	-
G225-12-075-125	A	75	125	25	75	-
G225-12-075-150	A	75	150	25	100	-
G225-12-100-100	B	100	100	25	50	50

KOD / CODE / CÓDIGO	Form	w -0.1 / -0.3	l -0.1 / -0.3	l_1	l_2 ±0.2	b
G225-12-100-125	B	100	125	25	75	50
G225-12-100-150	B	100	150	25	100	50
G225-12-100-200	B	100	200	25	150	50
G225-12-100-250	B	100	250	25	200	50
G225-12-100-300	B	100	300	25	250	50
G225-12-125-125	B	125	125	25	75	50
G225-12-125-150	B	125	150	25	100	50
G225-12-125-200	B	125	200	25	150	50
G225-12-125-250	B	125	250	25	200	50
G225-12-125-300	B	125	300	25	250	50
G225-12-125-350	B	125	350	25	300	50
G225-12-150-150	B	150	150	25	100	100
G225-12-150-200	B	150	200	25	150	100
G225-12-150-250	B	150	250	25	200	100
G225-12-150-300	B	150	300	25	250	100
G225-12-150-350	B	150	350	25	300	100
G225-12-200-200	B	200	200	25	150	100
G225-12-200-250	B	200	250	25	200	100
G225-12-200-300	B	200	300	25	250	100
G225-12-200-350	B	200	350	25	300	100



Hammadde / Material :
1.7131 (16MnCr5)

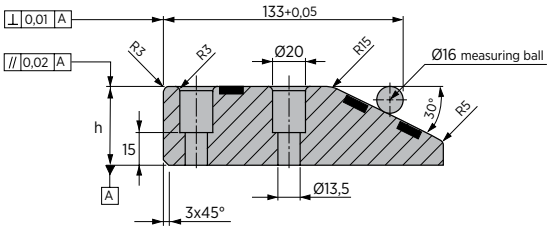
Hardened
HRC 60 - 64

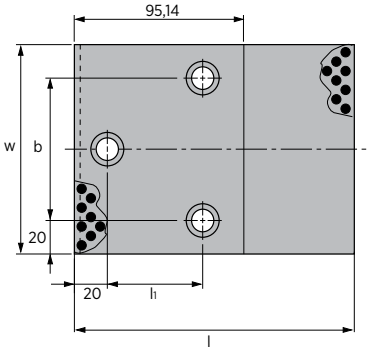


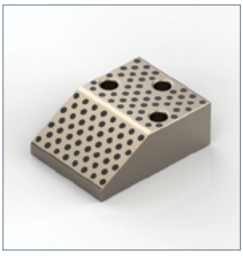
KOD / CODE / CÓDIGO	Form	w -0.1 / -0.3	l -0.1 / -0.3	l1	l2 ±0.2	b
G225-13-028-075	A	28	75	15	45	-
G225-13-028-100	A	28	100	25	50	-
G225-13-028-150	A	28	150	25	100	-
G225-13-038-075	A	38	75	15	45	-
G225-13-038-100	A	38	100	25	50	-
G225-13-038-150	A	38	150	25	100	-
G225-13-038-200	A	38	200	25	150	-
G225-13-048-075	A	48	75	15	45	-
G225-13-048-100	A	48	100	25	50	-
G225-13-048-125	A	48	125	25	75	-
G225-13-048-150	A	48	150	25	100	-
G225-13-048-200	A	48	200	25	150	-
G225-13-058-075	A	58	75	15	45	-
G225-13-058-100	A	58	100	25	50	-
G225-13-058-150	A	58	150	25	100	-
G225-13-075-075	A	75	75	15	45	-
G225-13-075-100	A	75	100	25	50	-
G225-13-075-125	A	75	125	25	75	-
G225-13-075-150	A	75	150	25	100	-
G225-13-075-200	A	75	200	25	150	-

KOD / CODE / CÓDIGO	Form	w -0.1 / -0.3	l -0.1 / -0.3	l1	l2 ±0.2	b
G225-13-100-100	B	100	100	25	50	50
G225-13-100-125	B	100	125	25	75	50
G225-13-100-150	B	100	150	25	100	50
G225-13-100-200	B	100	200	25	150	50
G225-13-100-250	B	100	250	25	200	50
G225-13-100-300	B	100	300	25	250	50
G225-13-125-125	B	125	125	25	75	50
G225-13-125-150	B	125	150	25	100	50
G225-13-125-200	B	125	200	25	150	50
G225-13-125-250	B	125	250	25	200	50
G225-13-125-300	B	125	300	25	250	50
G225-13-125-350	B	125	350	25	300	50
G225-13-150-150	B	150	150	25	100	100
G225-13-150-200	B	150	200	25	150	100
G225-13-150-250	B	150	250	25	200	100
G225-13-150-300	B	150	300	25	250	100
G225-13-150-350	B	150	350	25	300	100
G225-13-200-200	B	200	200	25	150	100
G225-13-200-250	B	200	250	25	200	100
G225-13-200-300	B	200	300	25	250	100
G225-13-200-350	B	200	350	25	300	100

Bronz Grafitli Kam Kılavuz Plakalar
Cam Dwell Self-lubricating
Cuña de Sobrecarrera, Bronce con Lubrificante Sólido





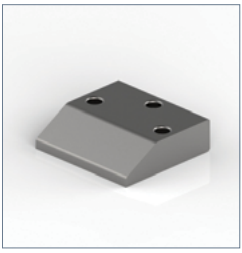


Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

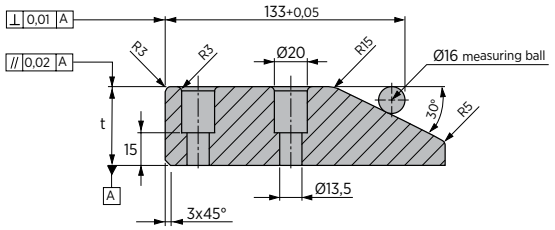
KOD / CODE / CÓDIGO	w	h ±0.05	l	l1	b
G228-04-10012530	100	30	125	50	60
G228-04-10015045	100	45	150	45	60
G228-04-10017060	100	60	170	45	60
G228-04-12512530	125	30	125	50	85
G228-04-12515045	125	45	150	45	85
G228-04-12517060	125	60	170	45	85
G228-04-16012530	160	30	125	50	120
G228-04-16015045	160	45	150	45	120
G228-04-16017060	160	60	170	45	120

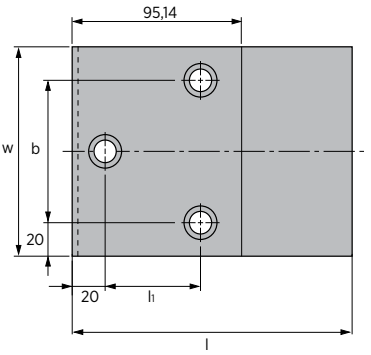
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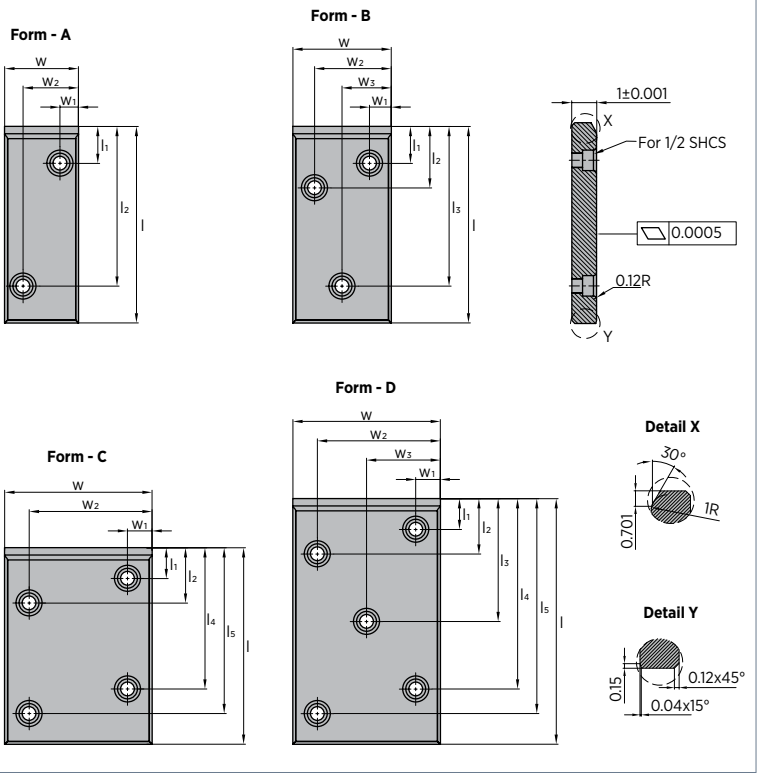
Hammadde / Material :
1.7225 (42CrMo4)

Hardened
HRC 56 ÷ 60





KOD / CODE / CÓDIGO	w	l	t ±0.05	l1	b
G229-04-10012530	100	125	30	50	60
G229-04-10015045	100	150	45	45	60
G229-04-10017060	100	170	60	45	60
G229-04-12512530	125	125	30	50	85
G229-04-12515045	125	150	45	45	85
G229-04-12517060	125	170	60	45	85
G229-04-16012530	160	125	30	50	120
G229-04-16015045	160	150	45	45	120
G229-04-16017060	160	170	60	45	120



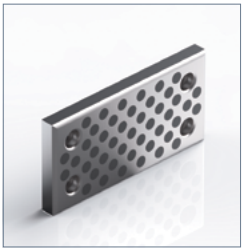


Hammadde / Material :
42CrMo4

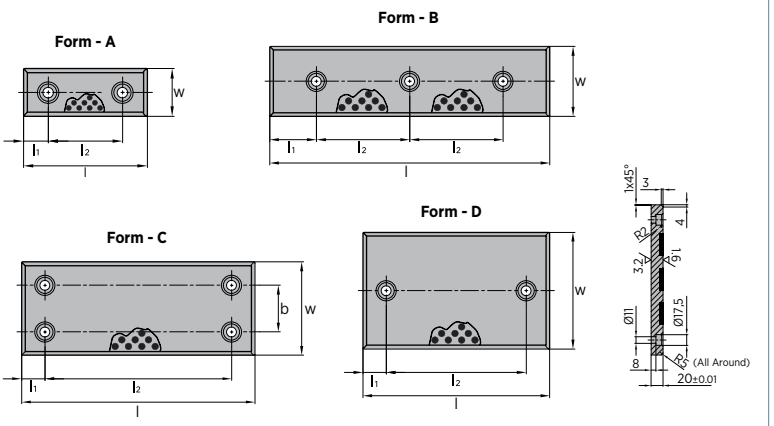
Surface Hardened
HRC 56-62

KOD / CODE / CÓDIGO	Form	w	l	w1	w3	w2	l1	l2	l3	l4	l5
G229-06-2508	A	2.5	8	1.25	-	1.25	1.5	6.5	-	-	-
G229-06-3025	A	3	2.5	0.75	-	2.25	1.25	1.25	-	-	-
G229-06-303	A	3	3	0.75	-	2.25	1.75	1.75	-	-	-
G229-06-304	A	3	4	0.75	-	2.25	1.25	2.75	-	-	-
G229-06-305	A	3	5	0.75	-	2.25	1.5	3.75	-	-	-
G229-06-306	A	3	6	0.75	-	2.25	1.5	4.5	-	-	-
G229-06-308	A	3	8	0.75	-	2.25	1.5	6.5	-	-	-
G229-06-310	B	3	10	0.75	1.5	2.25	1.5	2.5	8.5	-	-
G229-06-312	B	3	12	0.75	1.5	2.25	1.5	2.5	10.5	-	-
G229-06-4025	A	4	2.5	1.25	-	2.75	1.25	1.25	-	-	-
G229-06-403	A	4	3	1	-	3	1.5	2.25	-	-	-
G229-06-404	A	4	4	1	-	3	1.25	2.75	-	-	-
G229-06-405	A	4	5	0.88	-	3.12	1.5	3.75	-	-	-
G229-06-406	A	4	6	0.88	-	3.12	1.5	4.5	-	-	-
G229-06-408	B	4	8	0.88	2	3.12	1.5	2.5	6.5	-	-
G229-06-410	B	4	10	0.88	2	3.12	1.5	2.5	8.5	-	-
G229-06-412	B	4	12	0.88	2	3.12	1.5	2.5	10.5	-	-
G229-06-5025	A	5	2.5	1.25	-	3.75	1.25	1.25	-	-	-

KOD / CODE / CÓDIGO	Form	w	l	w1	w3	w2	l1	l2	l3	l4	l5
G229-06-504	A	5	4	1	-	4	1.5	2.75	-	-	-
G229-06-505	A	5	5	1	-	4	1.5	3.75	-	-	-
G229-06-506	A	5	6	1	-	4	1.5	4.5	-	-	-
G229-06-508	B	5	8	1	2.5	4	1.5	2.5	6.5	-	-
G229-06-510	B	5	10	1	2.5	4	1.5	2.5	8.5	-	-
G229-06-512	C	5	12	1	-	4	1.5	2.5	-	9.5	10.5
G229-06-6025	A	6	2.5	1.5	-	4.5	1.25	1.25	-	-	-
G229-06-603	B	6	3	1	3	5	1.25	1.25	1.75	-	-
G229-06-604	B	6	4	1	3	5	1.25	2.25	2.75	-	-
G229-06-605	A	6	5	1.12	-	4.88	1.5	3.75	-	-	-
G229-06-606	C	6	6	1	-	5	1.25	2.25	-	3.75	4.75
G229-06-608	C	6	8	1	-	5	1.25	2.25	-	5.75	6.75
G229-06-610	D	6	10	1	3	5	1.25	2.25	5	7.75	8.75
G229-06-612	D	6	12	1	3	5	1.25	2.25	6	9.75	10.75
G229-06-8025	A	8	2.5	1.5	-	6.5	1.25	1.25	-	-	-
G229-06-805	A	8	5	1.25	-	6.75	1.5	3.75	-	-	-
G229-06-806	C	8	6	1	-	7	1.25	2.25	-	3.75	4.75
G229-06-1025	A	10	2.5	1.75	-	8.25	1.25	1.25	-	-	-

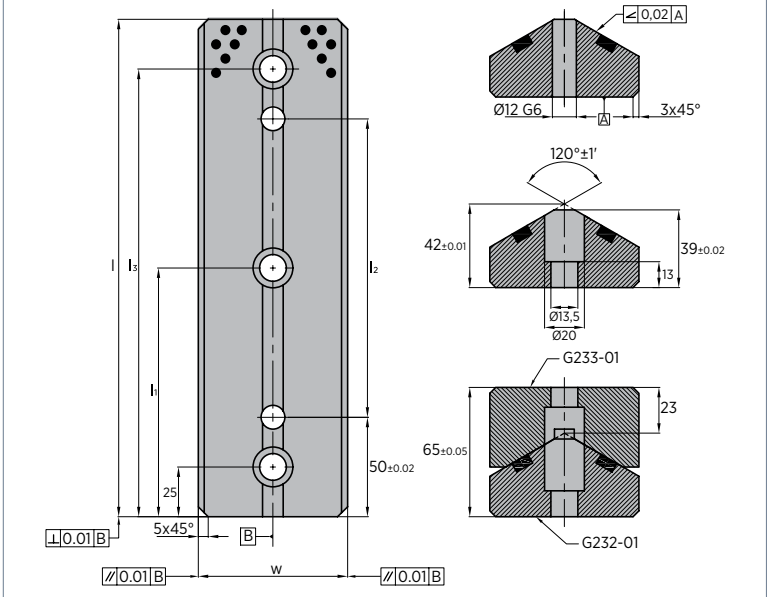


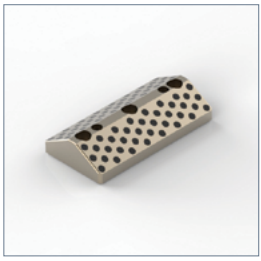
Hammadde / Material :
EN-GJL-250 /
EN-JL1040 (GG25)



KOD / CODE / CÓDIGO	Form	w -0.1 / -0.2	l -0.1 / -0.2	l_1	l_2 ±0.2	b ±0.2
G230-04-028-075	A	28	75	15	45	-
G230-04-028-100	A	28	100	25	50	-
G230-04-028-125	A	28	125	25	75	-
G230-04-028-150	A	28	150	25	100	-
G230-04-028-200	A	28	200	25	150	-
G230-04-038-075	A	38	75	15	45	-
G230-04-038-100	A	38	100	25	50	-
G230-04-038-125	A	38	125	25	75	-
G230-04-038-150	A	38	150	25	100	-
G230-04-038-200	A	38	200	25	150	-
G230-04-048-075	A	48	75	15	45	-
G230-04-048-100	A	48	100	25	50	-
G230-04-048-125	A	48	125	25	75	-
G230-04-048-150	A	48	150	25	100	-
G230-04-048-200	A	48	200	25	150	-
G230-04-058-075	A	58	75	15	45	-
G230-04-058-100	A	58	100	25	50	-
G230-04-058-125	A	58	125	25	75	-
G230-04-058-150	A	58	150	25	100	-
G230-04-075-075	A	75	75	25	25	-
G230-04-075-100	A	75	100	25	50	-
G230-04-075-125	A	75	125	25	75	-
G230-04-075-150	A	75	150	25	100	-
G230-04-075-200	A	75	200	25	150	-
G230-04-075-250	A	75	250	25	200	-
G230-04-075-300	B	75	300	50	100	-
G230-04-100-100	C	100	100	25	50	50
G230-04-100-125	C	100	125	25	75	50
G230-04-100-150	C	100	150	25	100	50

KOD / CODE / CÓDIGO	Form	w -0.1 / -0.2	l -0.1 / -0.2	l_1	l_2 ±0.2	b ±0.2
G230-04-100-200	C	100	200	25	150	50
G230-04-100-250	C	100	250	25	200	50
G230-04-100-300	C	100	300	50	200	50
G230-04-125-125	C	125	125	25	75	50
G230-04-125-150	C	125	150	25	100	50
G230-04-125-200	C	125	200	25	150	50
G230-04-125-250	C	125	250	25	200	50
G230-04-125-300	C	125	300	50	200	50
G230-04-150-150	C	150	150	25	100	100
G230-04-150-200	C	150	200	25	150	100
G230-04-150-250	C	150	250	25	200	100
G230-04-150-300	C	150	300	25	250	100
G230-04-100-1001	D	100	100	25	50	-
G230-04-100-1251	D	100	125	25	75	-
G230-04-100-1501	D	100	150	25	100	-
G230-04-100-2001	D	100	200	25	150	-
G230-04-100-2501	D	100	250	25	200	-
G230-04-100-3001	D	100	300	50	200	-
G230-04-125-1251	D	125	125	25	75	-
G230-04-125-1501	D	125	150	25	100	-
G230-04-125-2001	D	125	200	25	150	-
G230-04-125-2501	D	125	250	25	200	-
G230-04-125-3001	D	125	300	50	200	-
G230-04-150-1501	D	150	150	25	100	-
G230-04-150-2001	D	150	200	25	150	-
G230-04-150-2501	D	150	250	25	200	-
G230-04-150-3001	D	150	300	25	250	-
G230-04-200-200	C	200	200	25	150	150
G230-04-200-250	C	200	250	25	200	150
G230-04-200-300	C	200	300	25	250	150





Hammadde / Material :
Bronze + Graphite

Hardness
HB>=190

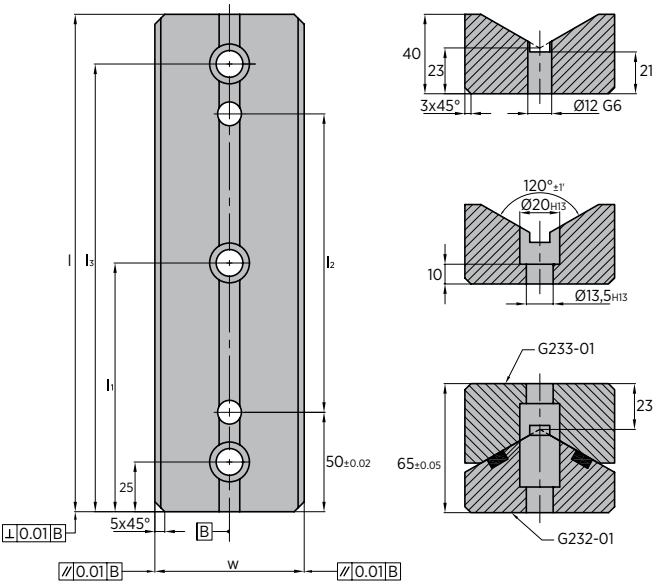
KOD / CODE / CÓDIGO	w ±0.026	l -0.1/-0.3	l_1 ±0.2	l_2 ±0.01	l_3 ±0.2
G232-01-0650150	65	150	-	50	125
G232-01-0650200	65	200	-	100	175
G232-01-0650250	65	250	125	150	225
G232-01-0650300	65	300	150	200	275
G232-01-0750150	75	150	-	50	125
G232-01-0750200	75	200	-	100	175
G232-01-0750250	75	250	125	150	225
G232-01-0750300	75	300	150	200	275

3

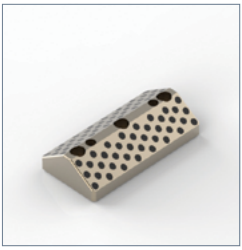


Hammadde / Material :
Steel

Surface Hardened
HRC 56 ÷ 60

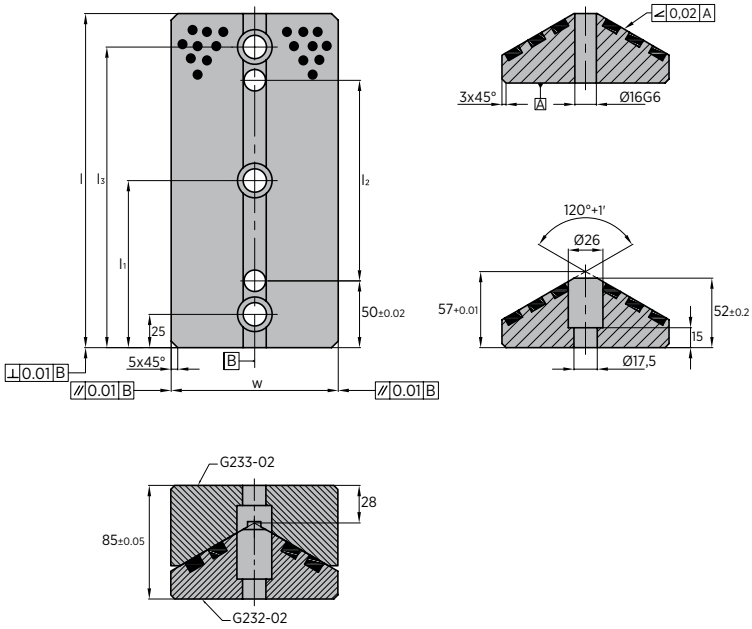


KOD / CODE / CÓDIGO	w ±0.026	l -0.1 / -0.3	l1 ±0.2	l2 ±0.01	l3 ±0.2
G233-01-0650150	65	150	-	50	125
G233-01-0650200	65	200	-	100	175
G233-01-0650250	65	250	125	150	225
G233-01-0650300	65	300	150	200	275
G233-01-0750150	75	150	-	50	125
G233-01-0750200	75	200	-	100	175
G233-01-0750250	75	250	125	150	225
G233-01-0750300	75	300	150	200	275

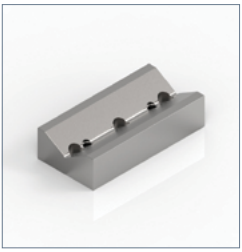


Hammadde / Material :
Bronze + Graphite

Hardness
HB>=190

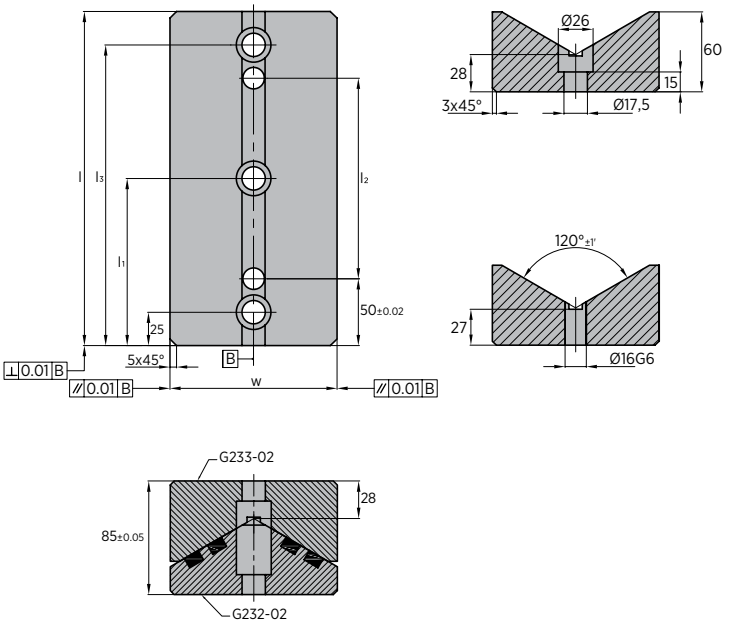


KOD / CODE / CÓDIGO	w ±0.026	l -0.1/-0.3	l_1 ±0.2	l_2 ±0.01	l_3 ±0.2
G232-02-1250150	125	150	-	50	125
G232-02-1250200	125	200	-	100	175
G232-02-1250250	125	250	125	150	225
G232-02-1250300	125	300	150	200	275



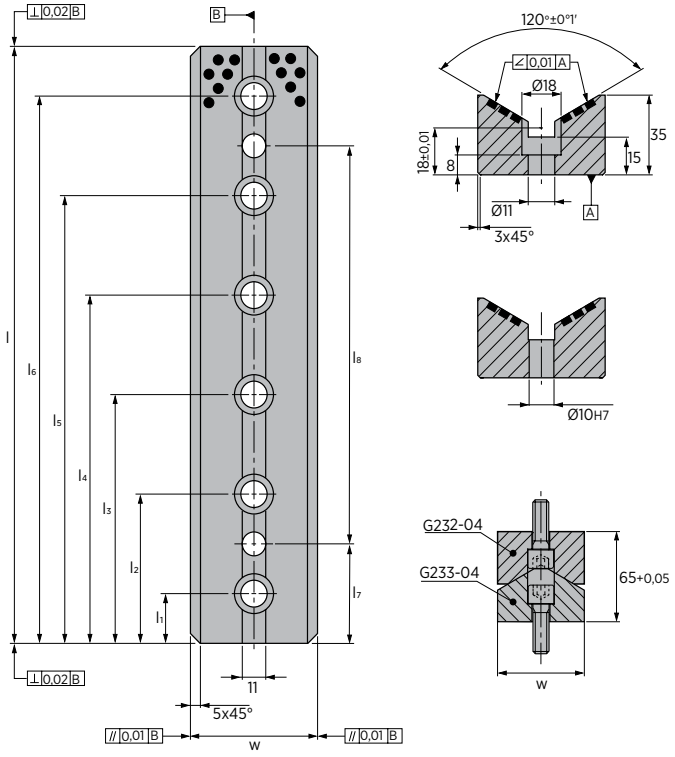
Hammadde / Material :
CK45

Surface Hardened
HRC 56 ÷ 60



KOD / CODE / CÓDIGO	w ±0.026	l -0.1/-0.3	l_1 ±0.2	l_2 ±0.01	l_3 ±0.2
G233-02-1250150	125	150	-	50	125
G233-02-1250200	125	200	-	100	175
G233-02-1250250	125	250	125	150	225
G233-02-1250300	125	300	150	200	275





Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

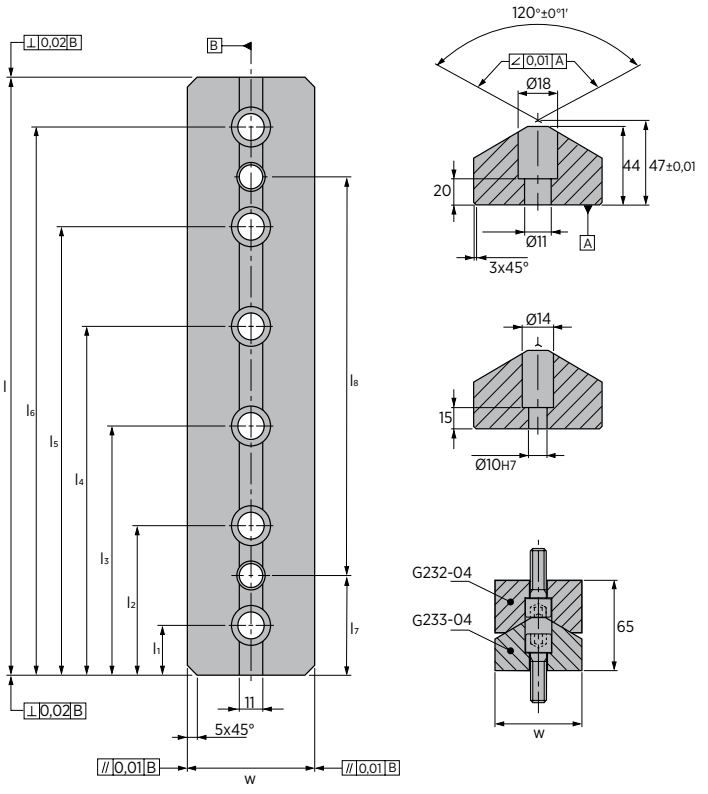
KOD / CODE / CÓDIGO	w ±0.025	l	l1	l2	l3	l4	l5	l6	l7 ±0.02	l8 ±0.01
G232-04-3565100	65	100	20	80	-	-	-	-	40	20
G232-04-3565150	65	150	25	75	125	-	-	-	50	50
G232-04-3565200	65	200	25	75	125	175	-	-	50	100
G232-04-3565250	65	250	25	75	125	175	225	-	50	150
G232-04-3565300	65	300	25	75	125	175	225	275	50	200

3

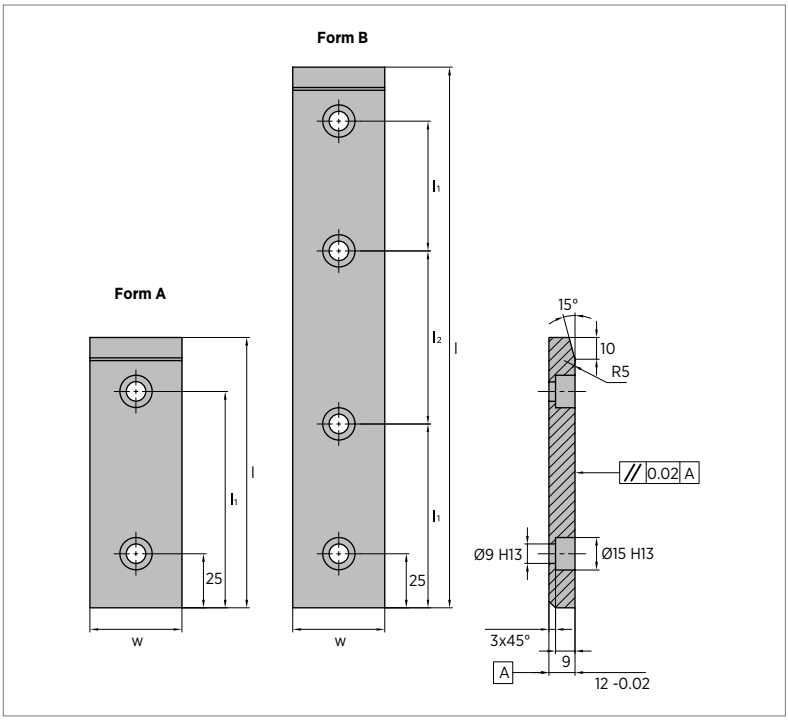


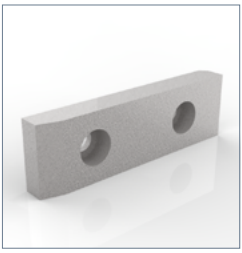
Hammadde / Material :
CK45

Surface Hardened
HRC 58 ÷ 60



KOD / CODE / CÓDIGO	w ±0.025	l	l1	l2	l3	l4	l5	l6	l7 ±0.02	l8 ±0.01
G233-04-3565100	65	100	20	80	-	-	-	-	40	20
G233-04-3565150	65	150	25	75	125	-	-	-	50	50
G233-04-3565200	65	200	25	75	125	175	-	-	50	100
G233-04-3565250	65	250	25	75	125	175	225	-	50	150
G233-04-3565300	65	300	25	75	125	175	225	275	50	200

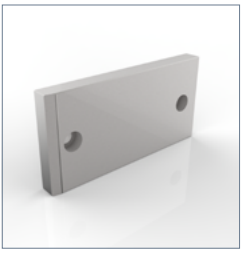




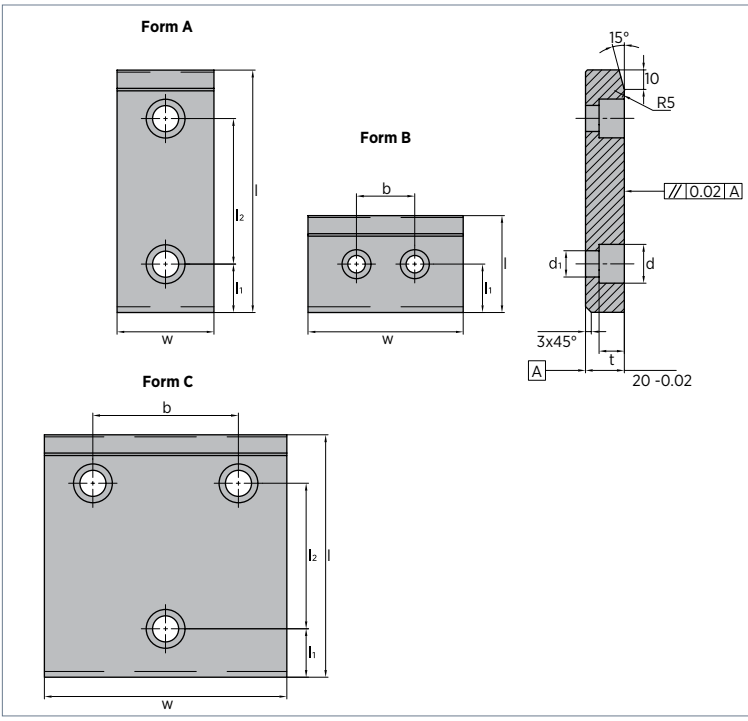
Hammadde / Material :
Steel (Sintered)

KOD / CODE / CÓDIGO	Form	w	l ±0.2	l_1 ±0.2	l_2 ±0.2
G250-01-030-080	A	30	80	30	-
G250-01-030-100	A	30	100	50	-
G250-01-030-125	A	30	125	75	-
G250-01-030-160	A	30	160	110	-
G250-01-030-200	A	30	200	150	-
G250-01-040-080	A	40	80	30	-
G250-01-040-100	A	40	100	50	-
G250-01-040-125	A	40	125	75	-
G250-01-040-160	A	40	160	110	-
G250-01-040-200	A	40	200	150	-
G250-01-050-080	A	50	80	30	-
G250-01-050-100	A	50	100	50	-
G250-01-050-125	A	50	125	75	-
G250-01-050-160	A	50	160	110	-
G250-01-050-200	A	50	200	150	-
G250-01-050-250	B	50	250	60	80
G250-01-050-300	B	50	300	80	90
G250-01-050-350	B	50	350	100	100
G250-01-050-400	B	50	400	120	110
G250-01-060-080	A	60	80	30	-
G250-01-060-100	A	60	100	50	-
G250-01-060-125	A	60	125	75	-
G250-01-060-160	A	60	160	110	-
G250-01-060-200	A	60	200	150	-
G250-01-080-080	A	80	80	30	-
G250-01-080-100	A	80	100	50	-
G250-01-080-125	A	80	125	75	-
G250-01-080-160	A	80	160	110	-
G250-01-080-200	A	80	200	150	-

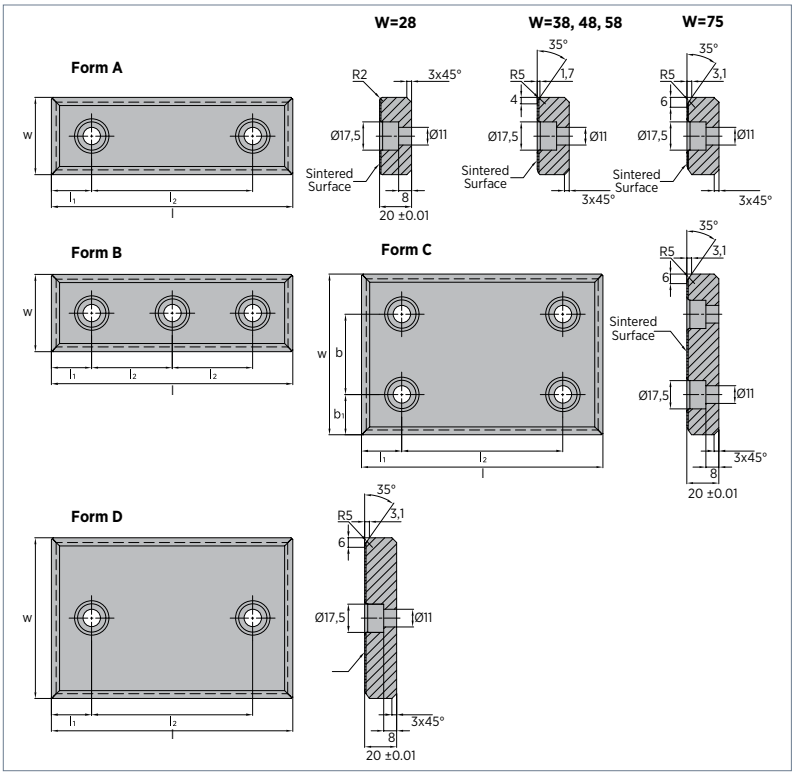
3



Hammadde / Material :
Steel (Sintered)



KOD / CODE / CÓDIGO	Form	w	l ±0.2	l1 ±0.2	l2 ±0.2	b ±0.02	d H13	d1 H13	t
G250-02-050-080	A	50	80	25	30	-	15	9	9
G250-02-050-100	A	50	100	25	50	-	20	13.5	13
G250-02-050-125	A	50	125	25	75	-	20	13.5	13
G250-02-050-160	A	50	160	25	110	-	20	13.5	13
G250-02-050-200	A	50	200	25	150	-	20	13.5	13
G250-02-080-050	B	80	50	25	-	30	15	9	9
G250-02-080-080	A	80	80	25	30	-	20	13.5	13
G250-02-080-100	A	80	100	25	50	-	20	13.5	13
G250-02-080-125	A	80	125	25	75	-	20	13.5	13
G250-02-080-160	A	80	160	25	110	-	20	13.5	13
G250-02-080-200	A	80	200	25	150	-	20	13.5	13
G250-02-100-050	B	100	50	25	-	50	20	13.5	13
G250-02-100-080	B	100	80	40	-	50	20	13.5	13
G250-02-100-100	A	100	100	25	50	-	20	13.5	13
G250-02-100-125	A	100	125	25	75	-	20	13.5	13
G250-02-100-160	A	100	160	25	110	-	20	13.5	13
G250-02-100-200	A	100	200	25	150	-	20	13.5	13
G250-02-125-050	B	125	50	25	-	75	20	13.5	13
G250-02-125-080	B	125	80	40	-	75	20	13.5	13
G250-02-125-100	C	125	100	25	50	75	20	13.5	13
G250-02-125-125	C	125	125	25	75	75	20	13.5	13
G250-02-125-160	C	125	160	25	110	75	20	13.5	13
G250-02-125-200	C	125	200	25	150	75	20	13.5	13
G250-02-160-050	B	160	50	25	-	110	20	13.5	13
G250-02-160-080	B	160	80	40	-	110	20	13.5	13
G250-02-160-100	C	160	100	25	50	110	20	13.5	13
G250-02-160-125	C	160	125	25	75	110	20	13.5	13
G250-02-160-160	C	160	160	25	110	110	20	13.5	13
G250-02-160-200	C	160	200	25	150	110	20	13.5	13

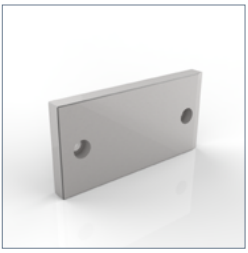




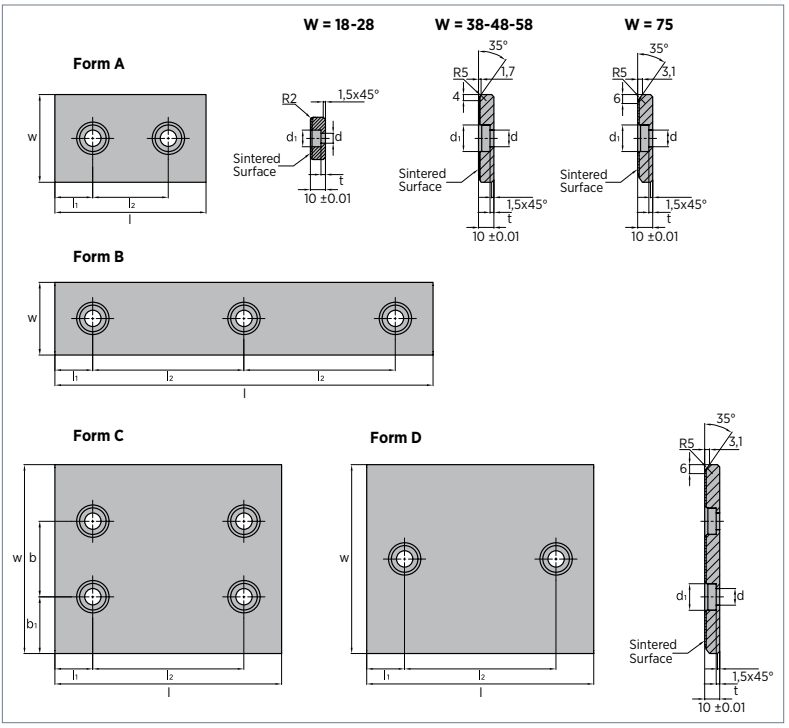
Hammadde / Material :
Steel (Sintered)

KOD / CODE / CÓDIGO	Form	w -0.1/-0.3	l -0.1/-0.3	l1	l2 ±0.2	b ±0.2	b1
G250-03-028-075	A	28	75	15	45	-	-
G250-03-028-100	A	28	100	25	50	-	-
G250-03-028-150	A	28	150	25	100	-	-
G250-03-038-075	A	38	75	15	45	-	-
G250-03-038-100	A	38	100	25	50	-	-
G250-03-038-125	A	38	125	25	75	-	-
G250-03-038-150	A	38	150	25	100	-	-
G250-03-048-075	A	48	75	15	45	-	-
G250-03-048-100	A	48	100	25	50	-	-
G250-03-048-125	A	48	125	25	75	-	-
G250-03-048-150	A	48	150	25	100	-	-
G250-03-048-200	A	48	200	50	100	-	-
G250-03-058-075	A	58	75	15	45	-	-
G250-03-058-100	A	58	100	25	50	-	-
G250-03-058-150	A	58	150	25	100	-	-
G250-03-075-075	A	75	75	25	25	-	-
G250-03-075-100	A	75	100	25	50	-	-
G250-03-075-125	A	75	125	25	75	-	-
G250-03-075-150	A	75	150	25	100	-	-
G250-03-075-200	A	75	200	25	150	-	-
G250-03-075-250	B	75	250	25	100	-	-
G250-03-100-100	C	100	100	25	50	50	25
G250-03-100-1001	D	100	100	25	50	-	-
G250-03-100-125	C	100	125	25	75	50	25

KOD / CODE / CÓDIGO	Form	w -0.1/-0.3	l -0.1/-0.3	l1	l2 ±0.2	b ±0.2	b1
G250-03-100-1251	D	100	125	25	75	-	-
G250-03-100-150	C	100	150	25	100	50	25
G250-03-100-1501	D	100	150	25	100	-	-
G250-03-100-200	C	100	200	25	150	50	25
G250-03-100-2001	D	100	200	25	150	-	-
G250-03-100-250	C	100	250	25	200	50	25
G250-03-100-2501	D	100	250	25	200	-	-
G250-03-100-300	C	100	300	50	200	50	25
G250-03-100-3001	D	100	300	50	200	-	-
G250-03-125-125	C	125	125	25	75	50	37.5
G250-03-125-1251	D	125	125	25	75	-	-
G250-03-125-150	C	125	150	25	100	50	37.5
G250-03-125-1501	D	125	150	25	100	-	-
G250-03-125-200	C	125	200	25	150	50	37.5
G250-03-125-2001	D	125	200	25	150	-	-
G250-03-125-250	C	125	250	25	200	50	37.5
G250-03-125-2501	D	125	250	25	200	-	-
G250-03-125-300	C	125	300	50	200	50	37.5
G250-03-150-150	C	150	150	25	100	100	25
G250-03-150-1501	D	150	150	25	100	-	-
G250-03-150-200	C	150	200	25	150	100	25
G250-03-150-2001	D	150	200	25	150	-	-
G250-03-150-250	C	150	250	25	200	100	25
G250-03-150-2501	D	150	250	25	200	-	-

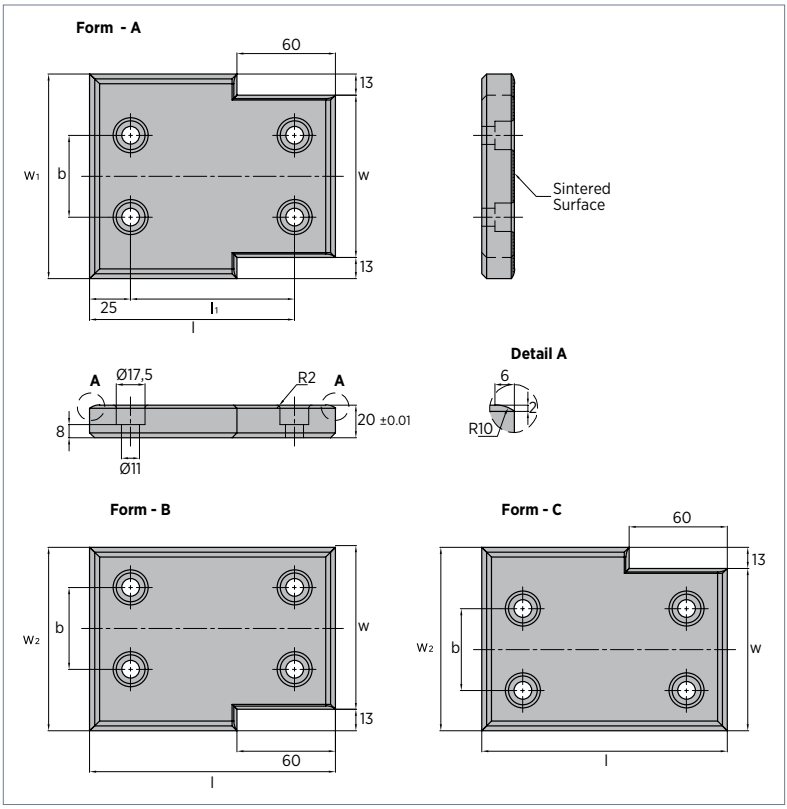


Hammadde / Material :
Steel (Sintered)



KOD / CODE / CÓDIGO	Form	w -0.1/-0.3	l -0.1/-0.3	l_1	l_2 ±0.2	b ±0.2	b_1	d	d_1	t
G250-04-018-075	A	18	75	15	45	-	-	6.6	11	3
G250-04-018-100	A	18	100	25	50	-	-	6.6	11	3
G250-04-018-125	A	18	125	25	75	-	-	6.6	11	3
G250-04-018-150	A	18	150	25	100	-	-	6.6	11	3
G250-04-028-075	A	28	75	15	45	-	-	11	17.5	2.5
G250-04-028-100	A	28	100	25	50	-	-	11	17.5	2.5
G250-04-028-125	A	28	125	25	75	-	-	11	17.5	2.5
G250-04-028-150	A	28	150	25	100	-	-	11	17.5	2.5
G250-04-038-075	A	38	75	15	45	-	-	11	17.5	2.5
G250-04-038-100	A	38	100	25	50	-	-	11	17.5	2.5
G250-04-038-125	A	38	125	25	75	-	-	11	17.5	2.5
G250-04-038-150	A	38	150	25	100	-	-	11	17.5	2.5
G250-04-048-075	A	48	75	15	45	-	-	11	17.5	2.5
G250-04-048-100	A	48	100	25	50	-	-	11	17.5	2.5
G250-04-048-125	A	48	125	25	75	-	-	11	17.5	2.5
G250-04-048-150	A	48	150	25	100	-	-	11	17.5	2.5
G250-04-048-200	A	48	200	50	100	-	-	11	17.5	2.5
G250-04-048-250	B	48	250	25	100	-	-	11	17.5	2.5
G250-04-058-075	A	58	75	15	45	-	-	11	17.5	2.5
G250-04-058-100	A	58	100	25	50	-	-	11	17.5	2.5
G250-04-058-150	A	58	150	25	100	-	-	11	17.5	2.5
G250-04-075-075	A	75	75	25	25	-	-	11	17.5	2.5
G250-04-075-100	A	75	100	25	50	-	-	11	17.5	2.5
G250-04-075-125	A	75	125	25	75	-	-	11	17.5	2.5
G250-04-075-150	A	75	150	25	100	-	-	11	17.5	2.5
G250-04-075-200	A	75	200	25	150	-	-	11	17.5	2.5
G250-04-075-250	B	75	250	25	100	-	-	11	17.5	2.5

KOD / CODE / CÓDIGO	Form	w -0.1/-0.3	l -0.1/-0.3	l_1	l_2 ±0.2	b ±0.2	b_1	d	d_1	t
G250-04-100-100	C	100	100	25	50	50	25	11	17.5	2.5
G250-04-100-1001	D	100	100	25	50	-	-	11	17.5	2.5
G250-04-100-125	C	100	125	25	75	50	25	11	17.5	2.5
G250-04-100-1251	D	100	125	25	75	-	-	11	17.5	2.5
G250-04-100-150	C	100	150	25	100	50	25	11	17.5	2.5
G250-04-100-1501	D	100	150	25	100	-	-	11	17.5	2.5
G250-04-100-200	C	100	200	25	150	50	25	11	17.5	2.5
G250-04-100-2001	D	100	200	25	150	-	-	11	17.5	2.5
G250-04-100-250	C	100	250	25	200	50	25	11	17.5	2.5
G250-04-100-2501	D	100	250	25	200	-	-	11	17.5	2.5
G250-04-100-300	C	100	300	50	200	50	25	11	17.5	2.5
G250-04-125-125	C	125	125	25	75	75	25	11	17.5	2.5
G250-04-125-1251	D	125	125	25	75	-	-	11	17.5	2.5
G250-04-125-150	C	125	150	25	100	50	37.5	11	17.5	2.5
G250-04-125-1501	D	125	150	25	100	-	-	11	17.5	2.5
G250-04-125-200	C	125	200	25	150	50	37.5	11	17.5	2.5
G250-04-125-2001	D	125	200	25	150	-	-	11	17.5	2.5
G250-04-125-250	C	125	250	25	200	50	37.5	11	17.5	2.5
G250-04-125-2501	D	125	250	25	200	-	-	11	17.5	2.5
G250-04-125-300	C	125	300	50	200	50	37.5	11	17.5	2.5
G250-04-150-150	C	150	150	25	100	100	25	11	17.5	2.5
G250-04-150-1501	D	150	150	25	100	-	-	11	17.5	2.5
G250-04-150-200	C	150	200	25	150	100	25	11	17.5	2.5
G250-04-150-2001	D	150	200	25	150	-	-	11	17.5	2.5
G250-04-150-250	C	150	250	25	200	100	25	11	17.5	2.5
G250-04-150-2501	D	150	250	25	200	-	-	11	17.5	2.5





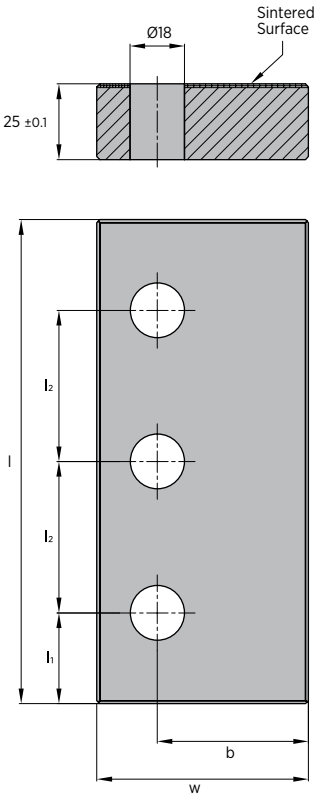
Hammadde / Material :
Steel (Sintered)

KOD / CODE / CÓDIGO	Form	w	l	w Actual	w1	w2	b ±0.2	l1 ±0.2
G250-05-075-100	A	75	100	74	100	87	40	50
G250-05-075-125	A	75	125	74	100	87	40	75
G250-05-075-150	A	75	150	74	100	87	40	100
G250-05-075-200	A	75	200	74	100	87	40	150
G250-05-075-250	A	75	250	74	100	87	40	200
G250-05-100-150	A	100	150	99	125	112	50	100
G250-05-100-200	A	100	200	99	125	112	50	150
G250-05-100-250	A	100	250	99	125	112	50	200
G250-05-125-150	A	125	150	124	150	137	90	100
G250-05-125-200	A	125	200	124	150	137	90	150
G250-05-075-1001	B	75	100	74	100	87	40	50
G250-05-075-1251	B	75	125	74	100	87	40	75
G250-05-075-1501	B	75	150	74	100	87	40	100
G250-05-075-2001	B	75	200	74	100	87	40	150
G250-05-075-2501	B	75	250	74	100	87	40	200

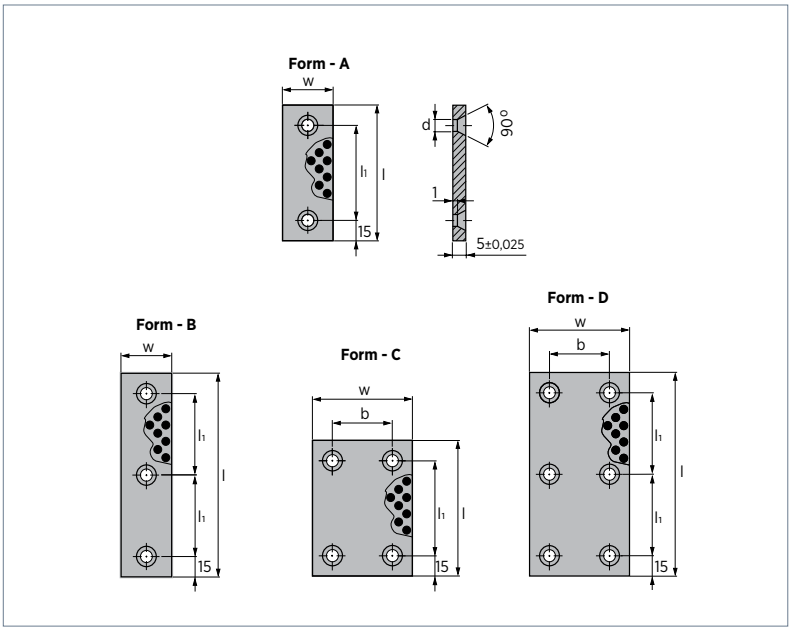
KOD / CODE / CÓDIGO	Form	w	l	w Actual	w1	w2	b ±0.2	l1 ±0.2
G250-05-100-1501	B	100	150	99	125	112	50	100
G250-05-100-2001	B	100	200	99	125	112	50	150
G250-05-100-2501	B	100	250	99	125	112	50	200
G250-05-125-1501	B	125	150	124	150	137	90	100
G250-05-125-2001	B	125	200	124	150	137	90	150
G250-05-075-1002	C	75	100	74	100	87	40	50
G250-05-075-1252	C	75	125	74	100	87	40	75
G250-05-075-1502	C	75	150	74	100	87	40	100
G250-05-075-2002	C	75	200	74	100	87	40	150
G250-05-075-2502	C	75	250	74	100	87	40	200
G250-05-100-1502	C	100	150	99	125	112	50	100
G250-05-100-2002	C	100	200	99	125	112	50	150
G250-05-100-2502	C	100	250	99	125	112	50	200
G250-05-125-1502	C	125	150	124	150	137	90	100
G250-05-125-2002	C	125	200	124	150	137	90	150

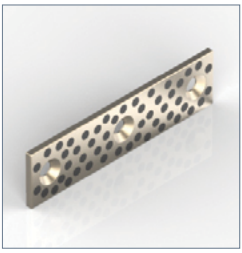


Hammadde / Material :
Steel (Sintered)



KOD / CODE / CÓDIGO	w	l	b	l_1	l_2 ±0.2
G250-06-070-160	70	160	50	30	50
G250-06-070-200	70	200	50	30	70
G250-06-070-240	70	240	50	35	85





Hammadde / Material :
Bronze + Graphite

Hardness
HB ≥ 190

KOD / CODE / CÓDIGO	Form	w	l	l1	b	d
P605-01-018-050	A	18	50	20	-	6.5
P605-01-018-075	A	18	75	45	-	6.5
P605-01-018-100	A	18	100	70	-	6.5
P605-01-018-150	B	18	150	60	-	6.5
P605-01-028-050	A	28	50	20	-	9
P605-01-028-075	A	28	75	45	-	9
P605-01-028-100	A	28	100	70	-	9
P605-01-028-150	B	28	150	60	-	9
P605-01-038-050	A	38	50	20	-	9
P605-01-038-075	A	38	75	45	-	9
P605-01-038-100	A	38	100	70	-	9
P605-01-038-150	B	38	150	60	-	9
P605-01-048-075	A	48	75	45	-	9
P605-01-048-100	A	48	100	70	-	9
P605-01-048-125	A	48	125	95	-	9
P605-01-048-150	B	48	150	60	-	9
P605-01-075-075	C	75	75	45	45	9
P605-01-075-100	C	75	100	70	45	9
P605-01-075-125	C	75	125	95	45	9
P605-01-075-150	D	75	150	60	45	9
P605-01-100-100	C	100	100	70	70	9
P605-01-100-125	C	100	125	95	70	9
P605-01-100-150	D	100	150	60	70	9

NOTLAR / NOTES / NOTAS

NOTLAR / NOTES / NOTAS

NOTLAR / NOTES / NOTAS