

Apéndice

B

**CATÁLOGOS
DE PIEZAS
COMERCIALES,
GRÁFICAS Y
TABLAS DE
APOYO**

Tabla B-1
Referencia del engrane

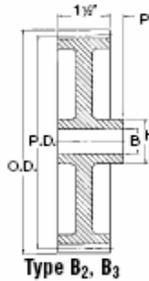
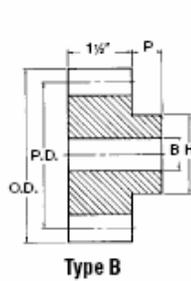


Steel & Cast Stock Spur Gears

20° Pressure Angle

8 DP

1½" Face



Type B
Plain With Hub All Steel



Type B₃
Web With Spokes Cast

Steel

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
12	TS812	20	1,500	1,750	B	¾	¾	1½	¾	0.7
14	TS814	20	1,750	2,000	B	¾	¾	1½	¾	1.0
15	TS815	20	1,875	2,125	B	¾	¾	1½	¾	1.2
16	TS816	20	2,000	2,250	B	¾	¾	1½	¾	1.4
18	TS818	20	2,250	2,500	B	¾	1¼	1½	¾	1.9
19	TS819	20	2,375	2,625	B	¾	1¼	2	¾	2.3
20	TS820	20	2,500	2,750	B	¾	1¼	2½	¾	2.5
22	TS822	20	2,750	3,000	B	¾	1¼	2½	¾	3.2
24	TS824	20	3,000	3,250	B	¾	1¼	2½	¾	3.9
26	TS826	20	3,250	3,500	B	¾	1¼	2½	¾	4.6
28	TS828	20	3,500	3,750	B	¾	1¼	2½	¾	5.2
30	TS830	20	3,750	4,000	B	1	1¼	2½	¾	5.6
32	TS832	20	4,000	4,250	B	1	1¼	3½	¾	6.6
36	TS836	20	4,500	4,750	B	1	2¼	3½	¾	8.6
40	TS840	20	5,000	5,250	B	1	2¼	3½	¾	10.2
42	TS842	20	5,250	5,500	B	1	2¼	3½	1	11.4
44	TS844	20	5,500	5,750	B	1	2¼	3½	1	12.3
48	TS848	20	6,000	6,250	B	1	2¼	3½	1	14.2

Cast

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Max.*	Diameter	Proj.	
52	TC852	20	6,500	6,750	B	1	1¼	3	1	11.9
56	TC856	20	7,000	7,250	B	1	1¼	3	1	13.0
60	TC860	20	7,500	7,750	B ₃	1	1¼	3	1	12.0
64	TC864	20	8,000	8,250	B ₃	1	1¼	3	1	12.1
72	TC872	20	9,000	9,250	B ₃	1	2¼	3½	1	14.4
80	TC880	20	10,000	10,250	B ₃	1¼	2¼	3½	1¼	17.0
88	TC888	20	11,000	11,250	B ₃	1¼	2¼	3½	1¼	19.0
96	TC896	20	12,000	12,250	B ₃	1¼	2¼	3½	1¼	23.7
112	TC8112	20	14,000	14,250	B ₃	1¼	2¼	3½	1¼	25.0
120	TC8120	20	15,000	15,250	B ₃	1¼	2¼	3½	1¼	25.8
128	TC8128	20	16,000	16,250	B ₃	1¼	2¼	3½	1¼	28.0
144	TC8144	20	18,000	18,250	B ₃	1¼	2¼	3½	1¼	32.0
160	TC8160	20	20,000	20,250	B ₃	1¼	2¼	3½	1¼	34.8

Bored-to-Size

No. Teeth	Catalog Number	Pressure Angle (Deg.)	Diameter		Type	Bore (Inches)		Set Screw	Hub (Inches)		Weight Lbs. (App.)
			Pitch	Outside		Stock	Keyway		Diameter	Proj.	
12	TS812BS 3/4	20	1,500	1,750	B	¾	¾ X ¾	(f) 10-24 @ 90	1½	¾	0.70
14	TS814BS 3/4	20	1,750	2,000	B	¾	¾ X ¾	(f) 1/4-20 @ 90	1½	¾	1.00
15	TS815BS 3/4	20	1,875	2,125	B	¾	¾ X ¾	(f) 1/4-20 @ 90	1½	¾	1.20
15	TS815BS 7/8	20	1,875	2,125	B	¾	¾ X ¾	(f) 1/4-20 @ 90	1½	¾	1.20
16	TS816BS 7/8	20	2,000	2,250	B	¾	¾ X ¾	(f) 1/4-20 @ 90	1½	¾	1.40
16	TS816BS 1	20	2,000	2,250	B	1	1 X 1	(f) 5/16-18 @ 90	1½	¾	1.40
18	TS818BS 7/8	20	2,250	2,500	B	¾	¾ X ¾	(f) 1/4-20 @ 90	1½	¾	1.90
18	TS818BS 1	20	2,250	2,500	B	1	1 X 1	(f) 5/16-18 @ 90	1½	¾	1.90
18	TS818BS 1-1/8	20	2,250	2,500	B	1¼	1¼ X 1¼	(f) 5/16-18 @ 90	1½	¾	1.90
20	TS820BS 7/8	20	2,500	2,750	B	¾	¾ X ¾	(f) 1/4-20 @ 90	2½	¾	2.50
20	TS820BS 1	20	2,500	2,750	B	1	1 X 1	(f) 5/16-18 @ 90	2½	¾	2.50
20	TS820BS 1-1/8	20	2,500	2,750	B	1¼	1¼ X 1¼	(f) 5/16-18 @ 90	2½	¾	2.50
22	TS822BS 7/8	20	2,750	3,000	B	¾	¾ X ¾	(f) 1/4-20 @ 90	2½	¾	3.20
22	TS822BS 1	20	2,750	3,000	B	1	1 X 1	(f) 5/16-18 @ 90	2½	¾	3.20
22	TS822BS 1-1/8	20	2,750	3,000	B	1¼	1¼ X 1¼	(f) 5/16-18 @ 90	2½	¾	3.20
24	TS824BS 7/8	20	3,000	3,250	B	¾	¾ X ¾	(f) 1/4-20 @ 90	2½	¾	3.90
24	TS824BS 1	20	3,000	3,250	B	1	1 X 1	(f) 5/16-18 @ 90	2½	¾	3.90
24	TS824BS 1-1/8	20	3,000	3,250	B	1¼	1¼ X 1¼	(f) 5/16-18 @ 90	2½	¾	3.90

* Recommended maximum bore with keyway and set screw.

20° P.A. Gears Will Not Operate With 14½° P.A.

GEARS

Tabla B-2
Referencia de la cremallera

Stock Gears Numbering System

Letters (Prefix) Indicate Material and Type Gear.

Letters (Suffix) Indicate Hardened, Number of Threads, Direction of Rotation and KW and SS.

Numbers Indicate Pitch, Number of Teeth, and Ratio (Suffix).



Spur Gears

S=Steel
TS=Steel 20°
C=Cast
TC=Cast 20°
H=Hardened Teeth
NM=Non-Metallic

Note: Pressure Angle Is Shown as a Suffix to Part Number of All Our Spur Gears.

Examples

S620-14½° (Steel 6P 20T-14½° PA)
TS620-20° (Steel 6P 20T-20° PA)
C660-14½° (Cast 6P 60T-14½° PA)
TC660-20° (Cast 6P 60T-20° PA)
S620H-14½° (Steel 6P 20T-Hardened 14½° PA)
NM620-14½° (Non-Metallic 6P 20T-14½° PA)



Rack

R=Rack — Steel
RA=Rack — Steel Heavy Backing
TR=Rack — Steel 20° Heavy Backing
R20=Rack — Steel 20° Wide Face

Examples

R-6X2 (14½° STD Backing 6PX2' Long)
RA-6X4 (14½° Heavy Backing 6PX4' Long)
TR-6X6 (20° STD Width 6PX6' Long)
R20-6X6 (20° Wide Face 6PX6' Long)



Bevel Gears

B=Bevel — Cast Iron Gears
B=Bevel — Steel Pinions
BS=Bevel — Steel Gears
BS=Bevel — Steel Pinions

Note: B Steel Pinions May Run With BS Gears of Same Ratio

Examples

B1040-2 (Cast 10P 40T 2:1 Ratio)
B1020-2 (Steel 10P 20T 2:1 Ratio)
BS1040-2 (Steel 10P 40T 2:1 Ratio)
BS1020-2 (Steel 10P 20T 2:1 Ratio)



Miter Gears

M=Miter — Steel Gears
A or B=Larger Bore (Suffix)
HM=Miter-Hardened Teeth
K=KW & SS

Examples

M824 (Steel 8P 24T)
M824A (Steel 8P 24T Larger Bore)
M2424BR (Brass 24P 24T)
HM1020 (Steel-Hardened Teeth 10P 20T)
HMK1020 (Steel-Hardened 10P 20T With KW & SS)



Worm

W=Worm — Steel
WH=Worm — Steel With Hub Projection
WG=Worm — Steel Hardened Ground Threads
WHG=Worm — Steel Hardened Ground Threads With Hub Projection
L=(Prefix) Longer Face
D or Q=(Suffix) Double or Quadruple Thread
R=Right Hand

Examples

W6R (Steel 6P Right Hand)
WH6R (Steel with Hub Projection 6P Right Hand)
WG6R (Steel-Hardened Ground Threads 6P Right Hand)
WHG6R (Steel with Hub Projection Hardened Ground Threads 6P Right Hand)
LW6R Steel Long Face 6P Right Hand)
W6DR (Steel 6P Double Thread Right Hand)



Worm Gears

W=Worm Gear — Cast Iron
WB=Worm Gear — Bronze
D or Q=Double or Quadruple Thread (Suffix)
R=Right Hand (Suffix)

Examples

W660R (Cast Iron 6P 60T Right Hand)
WB660R (Bronze 6P 60T Right Hand)
W660DR (Cast Iron 6P 60T Double Thread Right Hand)

Tabla B-3
Propiedades del acero 1018

AISI 1018 Steel, cold drawn

Component	Wt. %
C	0.14 - 0.2
Fe	98.81 - 99.26
Mn	0.6 - 0.9
P	Max 0.04
S	Max 0.05

Physical Properties

	Metric	English
Density	<u>7.87 g/cc</u>	0.284 lb/in ³

Mechanical Properties

Hardness, Brinell	126	126	
Hardness, Knoop	145	145	Converted from Brinell hardness.
Hardness, Rockwell B	71	71	Converted from Brinell hardness.
Hardness, Vickers	131	131	Converted from Brinell hardness.
Tensile Strength, Ultimate	<u>440 MPa</u>	63800 psi	
Tensile Strength, Yield	<u>370 MPa</u>	53700 psi	
Elongation at Break	<u>15 %</u>	15 %	In 50 mm
Reduction of Area	<u>40 %</u>	40 %	
Modulus of Elasticity	<u>205 GPa</u>	29700 ksi	Typical for steel
Bulk Modulus	<u>140 GPa</u>	20300 ksi	Typical for steel
Poisson's Ratio	0.29	0.29	Typical For Steel
Machinability	<u>70 %</u>	70 %	Based on AISI 1212 steel, as 100% machinability
Shear Modulus	<u>80 GPa</u>	11600 ksi	Typical for steel

Electrical Properties

Electrical Resistivity	<u>1.59e-005 ohm-cm</u>	1.59e-005 ohm-cm	annealed condition; 0°C (32°F)
Electrical Resistivity at Elevated Temperature	<u>2.19e-005 ohm-cm</u>	2.19e-005 ohm-cm	annealed condition; 100°C (212°F)
Electrical Resistivity at Elevated Temperature	<u>2.93e-005 ohm-cm</u>	2.93e-005 ohm-cm	annealed condition; 200°C (390°F)

Thermal Properties

Specific Heat Capacity	<u>0.486 J/g·C</u>	0.116 BTU/lb·F	annealed; 50-100°C (122-212°F)
Thermal Conductivity	<u>51.9 W/m·K</u>	360 BTU-in/hr-ft ² ·F	estimated based on similar materials

Tabla B-4
Factor de tamaño para diseño de ejes

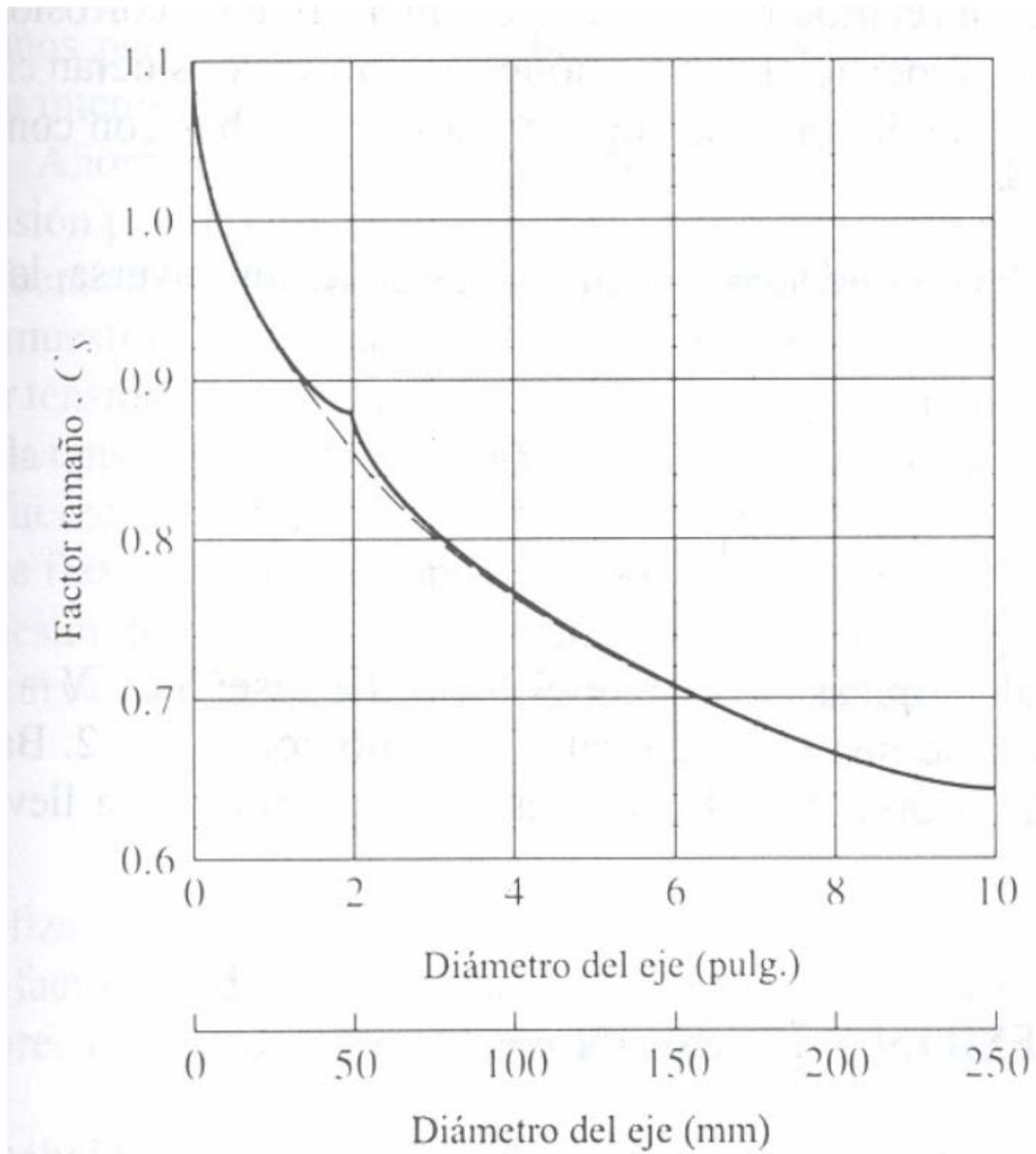


Tabla B-5
 Tensión por durabilidad contra resistencia al esfuerzo por tracción para acero forjado para
 varias condiciones superficiales

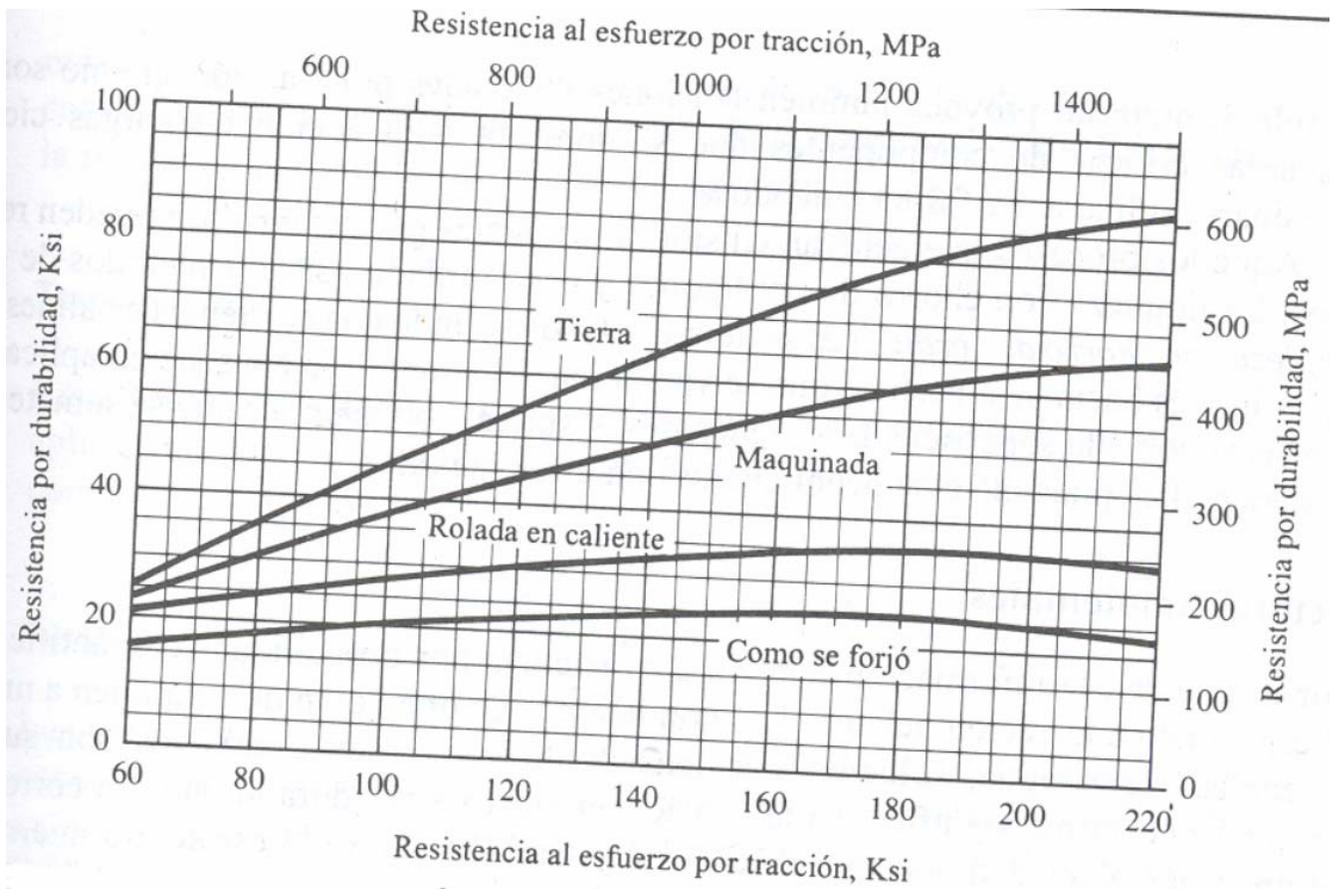
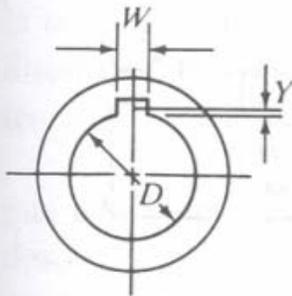


Tabla B-6
Tamaño de cuña contra tamaño de flecha

Diámetro nominal de la flecha		Tamaño nominal de la cuña		
Más de	Hasta (incluso)	Espesor, W	Altura, H	
			Cuadrada	Rectangular
$\frac{5}{16}$	$\frac{7}{16}$	$\frac{3}{32}$	$\frac{3}{32}$	
$\frac{7}{16}$	$\frac{9}{16}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{32}$
$\frac{9}{16}$	$\frac{7}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{1}{8}$
$\frac{7}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{16}$
$1\frac{1}{4}$	$1\frac{3}{8}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{1}{4}$
$1\frac{3}{8}$	$1\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{4}$
$1\frac{3}{4}$	$2\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$
$2\frac{1}{4}$	$2\frac{3}{4}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{7}{16}$
$2\frac{3}{4}$	$3\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$
$3\frac{1}{4}$	$3\frac{3}{4}$	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{5}{8}$
$3\frac{3}{4}$	$4\frac{1}{2}$	1	1	$\frac{3}{4}$
$4\frac{1}{2}$	$5\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{7}{8}$
$5\frac{1}{2}$	$6\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	1
$6\frac{1}{2}$	$7\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$
$7\frac{1}{2}$	9	2	2	$1\frac{1}{2}$
9	11	$2\frac{1}{2}$	$2\frac{1}{2}$	$1\frac{3}{4}$
11	13	3	3	2
13	15	$3\frac{1}{2}$	$3\frac{1}{2}$	$2\frac{1}{2}$
15	18	4		3
18	22	5		$3\frac{1}{2}$
22	26	6		4
26	30	7		5

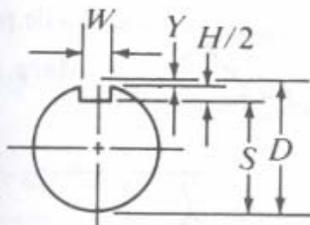
Nota: Se recomiendan los valores que no aparecen en las áreas sombreadas. Las dimensiones están en pulgadas.
Fuente: ANSI Standard B17.1-1967, *Keys and Keyseats* (American Society of Mechanical Engineers, Nueva York)

Tabla B-7
Dimensiones para cuñeros paralelos



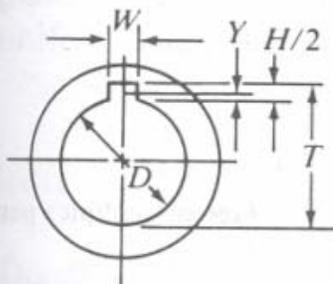
(a) Altura de la cuerda

$$Y = \frac{D - \sqrt{D^2 - W^2}}{2}$$



(b) Profundidad del cuñero del eje

$$S = D - Y - \frac{H}{2} = \frac{D - H + \sqrt{D^2 - W^2}}{2}$$



(c) Profundidad del cuñero de la maza

$$T = D - Y + \frac{H}{2} + C = \frac{D + H + \sqrt{D^2 - W^2}}{2} + C$$

Símbolos

C = Tolerancia

+0.005" de espaciamento para cuñas paralelas

-0.020" de interferencia para cuñas ahusadas

D = Diámetro nominal del eje o interior, pulg

H = Altura nominal de la cuña, pulg

W = Ancho o espesor nominal de la cuña, pulg

Y = Altura de la cuerda, pulg

Tabla B-8
Radios y chaflanes para cuñas que se sugieren

<i>Profundidad del cuñero H/2</i>			
<i>Más de</i>	<i>Hasta (incluso)</i>	<i>Radio del chaflán</i>	<i>Chaflán a 45°</i>
1/8	1/4	1/32	3/64
1/4	1/2	1/16	5/64
1/2	7/8	1/8	5/32
7/8	1 1/4	3/16	7/32
1 1/4	1 3/4	1/4	9/32
1 3/4	2 1/2	3/8	13/32

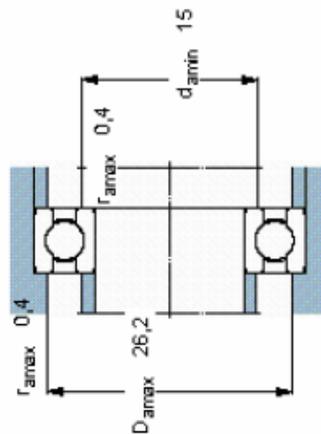
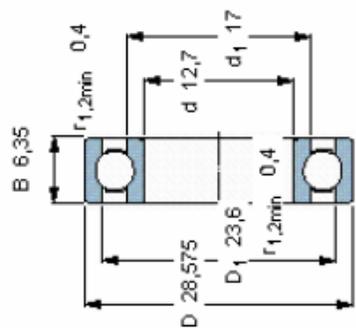
Nota: Todas las dimensiones se dan en pulgadas.

Fuente: ANSI Standard B17.1-1967, *Keys and Keyseats* (American Society of Mechanical Engineers, Nueva

Tabla B-9
Referencia de rodamientos

Rodamientos rígidos de bolas, de una hilera

Dimensiones principales	Capacidades de carga		Velocidades		Masa	Designación	
	dinámica	estática	Velocidad de referencia	Velocidad límite			
d	B	C	C0	PU		* - Rodamiento SKF Explorer	
mm	kN	kN	rpm	kg			
12,7	28,575	6,35	5,4	2,36	0,1	0,023	R 8
							Sólo proveedores de recambios



Factores de cálculo

k_r 0,025

f_0 13

Tabla B-10
Referencia de tornillos

CODIGO		TG5SH06	TG5SH08	TG5SH10	TG5SH11	TG5SH13	TG5SH16
LONGITUD		DIAMETRO					
pulg.	mm.	¼"	5/16"	3/8"	7/16"	½"	5/8"
		6mm	8mm	9mm	11mm	13mm	16mm
½	13	14.36	25.53	-	-		
5/8	16	14.68	25.53	-	-		
¾	19	15.21	25.53	-	-	78.19	-
1	25	15.85	27.02	38.83	55.11	80.96	158.83
1 ¼	32	17.23	30.21	44.68	63.09	91.28	158.83
1 ½	38	21.38	34.04	50.74	71.06	102.02	173.94
1 ¾	44	24.15	39.89	57.45	82.98	118.09	204.26
2	51	27.02	46.60	60.64	87.02	121.28	205.85
2 ½	64	31.17	56.06	82.34	114.15	162.02	263.30
3	76	41.49	65.43	97.23	134.89	188.83	296.81
3 ½	89	48.51	74.68	111.60	154.04	213.40	336.70
4	101	53.51	84.47	126.28	173.94	239.26	378.19
4 ½	114	65.43	102.13	151.60	205.85	284.04	446.81
5	127	75.64	110.96	167.55	231.38	314.36	493.94
5 ½	140	83.30	121.28	183.19	251.38	341.49	550.53
6	152	89.36	131.81	199.15	273.72	369.47	582.45
6 ½	165	300.21	388.30	529.04	695.43	884.26	1,202.98
7	178	319.79	423.40	564.68	733.83	954.36	1,326.38
8	203	341.38	448.62	596.28	777.66	1,016.91	1,381.49
9	229	360.85	472.98	632.77	823.51	1,070.21	1,507.77
10	254	381.49	495.43	669.26	875.21	1,132.87	1,601.17
11	279	403.09	517.77	717.87	902.98	1,215.11	1,634.89
12	305	422.66	540.32	757.13	945.96	1,263.72	1,771.28

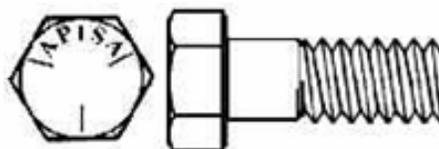


Tabla B-11
Referencia de tuercas

CODIGO	DIAMETRO
TUHL06SA	1/4" - 20
TUHL08SA	5/16" - 18
TUHL09SA	3/8" - 16
TUHL13SA	1/2" - 13
TUHL16SA	5/8" - 11
TUHL19SA	3/4" - 10

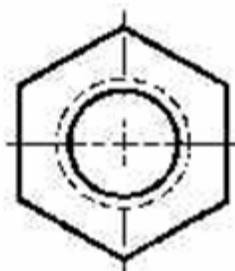


Tabla B-12
Tornillos de acero inoxidable



TORNILLOS ESTUFA CABEZA PLANA STANDARD ACERO INOXIDABLE 304		
Código	Diámetro pulgadas	Longitud pulgadas
1120-0106	4-40 (7/64")	3/8"
1120-0108	4-40 (7/64")	1/2"
1120-0110	4-40 (7/64")	5/8"
1120-0111	4-40 (7/64")	3/4"
1120-0204	5-40 (1/8")	1/4"
1120-0206	5-40 (1/8")	3/8"
1120-0208	5-40 (1/8")	1/2"
1120-0210	5-40 (1/8")	5/8"
1120-0211	5-40 (1/8")	3/4"
1120-0213	5-40 (1/8")	1"
1120-0214	5-40 (1/8")	1-1/4"
1120-0215	5-40 (1/8")	1-1/2"
1120-0217	5-40 (1/8")	2"
1120-0219	5-40 (1/8")	2-1/2"
1120-0221	5-40 (1/8")	3"
1120-0304	6-32 (9/64")	1/4"
1120-0306	6-32 (9/64")	3/8"
1120-0308	6-32 (9/64")	1/2"
1120-0310	6-32 (9/64")	5/8"
1120-0311	6-32 (9/64")	3/4"
1120-0313	6-32 (9/64")	1"
1120-0314	6-32 (9/64")	1-1/4"
1120-0315	6-32 (9/64")	1-1/2"
1120-0317	6-32 (9/64")	2"
1120-0404	8-32 (5/32")	1/4"
1120-0406	8-32 (5/32")	3/8"
1120-0408	8-32 (5/32")	1/2"
1120-0410	8-32 (5/32")	5/8"
1120-0411	8-32 (5/32")	3/4"
1120-0413	8-32 (5/32")	1"
1120-0915	1/4"-20	1-1/2"
1120-0916	1/4"-20	1-3/4"
1120-0917	1/4"-20	2"
1120-0919	1/4"-20	2-1/2"
1120-0921	1/4"-20	3"
1120-0923	1/4"-20	3-1/2"
1120-0925	1/4"-20	4"
1120-0926	1/4"-20	4-1/2"
1120-0927	1/4"-20	5"
1120-0929	1/4"-20	6"
1120-1008	5/16"-18	1/2"
1120-1011	5/16"-18	3/4"
1120-1013	5/16"-18	1"
1120-1014	5/16"-18	1-1/4"
1120-1015	5/16"-18	1-1/2"
1120-1016	5/16"-18	1-3/4"
1120-1017	5/16"-18	2"
1120-1019	5/16"-18	2-1/2"
1120-1021	5/16"-18	3"
1120-1023	5/16"-18	3-1/2"
1120-1025	5/16"-18	4"
1120-1026	5/16"-18	4-1/2"
1120-1027	5/16"-18	5"
1120-1029	5/16"-18	6"
1120-1108	3/8"-16	1/2"
1120-1110	3/8"-16	5/8"
1120-1111	3/8"-16	3/4"
1120-1113	3/8"-16	1"
1120-1114	3/8"-16	1-1/4"
1120-1115	3/8"-16	1-1/2"
1120-1117	3/8"-16	2"
1120-1119	3/8"-16	2-1/2"
1120-1121	3/8"-16	3"
1120-1123	3/8"-16	3-1/2"
1120-1125	3/8"-16	4"
1120-1126	3/8"-16	4-1/2"
1120-1127	3/8"-16	5"
1120-1129	3/8"-16	6"
1120-1313	1/2"-13	1"
1120-1315	1/2"-13	1-1/2"
1120-1317	1/2"-13	2"
1120-1319	1/2"-13	2-1/2"
1120-1321	1/2"-13	3"
1120-1323	1/2"-13	3-1/2"
1120-1325	1/2"-13	4"
1120-1327	1/2"-13	5"
1120-1329	1/2"-13	6"
1120-1525	5/8"-11	4"
1120-1719	3/4"-10	2-1/2"

Tabla B-13
Primera evaluación sensorial, nivel de agrado

**BOLETA DE EVALUACION SENSORIAL
PRUEBA DE NIVEL DE AGRADO
ESCALA ESTRUCTURADA**

Nombre: _____ Fecha: _____

Producto: _____

Característica: _____

Pruebe por favor las muestras en el orden que se le dan, e indique su nivel agrado con cada muestra marcando el punto en la escala que mejor describe su sentir con el código de la muestra. Por favor denos su razón para esta actitud

Código de las muestras

me gusta muchísimo	_____	_____	_____	_____
me gusta mucho	_____	_____	_____	_____
me gusta moderadamente	_____	_____	_____	_____
me gusta poco	_____	_____	_____	_____
no me gusta ni me disgusta	_____	_____	_____	_____
me disgusta poco	_____	_____	_____	_____
me disgusta moderadamente	_____	_____	_____	_____
me disgusta mucho	_____	_____	_____	_____
me disgusta muchísimo	_____	_____	_____	_____

Razón:

Gracias!

Tabla B-14
Segunda evaluación sensorial, nivel de dulzura

BOLETA DE EVALUACION SENSORIAL- PRUEBA DE
ORDENACION DESCRIPTIVA

Nombre: _____ Fecha: _____

Producto: _____

Característica: _____

Pruebe por favor las muestras en el orden que se le dan, e indique la intensidad de dulzura ordenándolas de la menos intensa (#1) a la más intensa (#4).

Código de las muestras

_____	_____	_____	_____
_____	_____	_____	_____
menos dulce			más dulce

Comentarios: _____

Gracias!