

Identification of REALI-SLIM® Bearings

REALI-SLIM® bearings are marked for complete identification with an (8) or (9) digit part number.

Positions 1-8 identify materials, size, type, and precision. Position 9 (optional) identifies non-standard internal fit.

Part Number Code Example

Position	1	2	3	4	5	6	7	8	9	10-13
Nomenclature	Material	Series	Size			Type	Separator	Precision	Internal Fit	DFAR Compliance
Example	K	G	1	2	0	X	P	0	L	-USA

Position 1 – Material

	Races/Balls	Seals, Shields
A	AISI 52100 Steel	with One seal—PTFE
B	AISI 52100 Steel	with Two seals—PTFE
D	AISI 52100 Steel	with One shield
E	AISI 52100 Steel	with Two shields
F	AISI 52100 Steel	with One seal—Nitrile rubber LAMI-SEAL®
G	AISI 52100 Steel	with Two seals—Nitrile rubber LAMI-SEAL®
H	AISI 52100 Steel	with One seal—Nitrile rubber
J	AISI 52100 Steel	with Two seals—Nitrile rubber
K	AISI 52100 Steel	with No seals or shields
L	AISI 52100 Steel	with Two seals and ENDURAKOTE® plating
M	M-50 Steel	with No seals or shields
N	AISI 52100 Steel	with No seals and ENDURAKOTE® plating
P	AISI 17-4PH Steel	with Ceramic Balls (see Section 6)
Q	AISI 52100 Steel	with No shields or seals (see section 6)
S	AISI 440C Stainless Steel	with No seals or shields
T	AISI 440C Stainless Steel	with One seal—PTFE
U	AISI 440C Stainless Steel	with Two seals—PTFE
V	AISI 440C Stainless Steel	with Two shields
W	AISI 440C Stainless Steel	with Two seals—Nitrile rubber
X	AISI 52100 Steel	with Ceramic Balls
Y	AISI 440C Stainless Steel	with Ceramic Balls (see Section 6)
Z	Other	

Position 2 – Series Cross Section

	Radial Thickness	Width	
Standard Cross-Sections	A	*.187 x .187	
	or	.250 x .250	
	B	.312 x .312	
	C	.375 x .375	
	D	.500 x .500	
	E	.625 x .625	
	F	.750 x .750	
	G	1.000 x 1.000	
	Extended Width	H	*.187 x .250
		or	.250 x .312
I		.312 x .375	
J		.375 x .437	
K		.500 x .578	
L		.625 x .727	
M		.750 x .875	
N		1.000 x 1.187	
Extra-Extended Width		S	*.187 x .312
		or	.250 x .375
	T	.312 x .437	
	U	.375 x .500	
	V	.500 x .656	
	W	.625 x .828	
	X	.750 x 1.000	
	Y	1.000 x 1.375	

*Smaller section applies when position 3 is alphabetic—see following explanations of positions 3, 4, and 5.

IDENTIFICATION OF REALI-SLIM® BEARINGS (continued)**Position 3, 4 and 5—Size (Bearing Bore)****Numeric Characters**

Nominal bearing bore in inches multiplied by ten

Alphabetic Characters

"A" In Position 3 in combination with "A" in Position 2 denotes .187 x .187 Series

"A" In Position 3 in combination with "H" in Position 2 denotes .187 x .250 Series

"A" In Position 3 in combination with "S" in Position 2 denotes .187 x .312 Series

Examples

040 = 4.0" Bore

120 = 12.0" Bore

400 = 40.0" Bore

"10" following "AA" in Positions 2 & 3 = .187 x .187 Series with 1.0" Bore

"15" following "HA" in Positions 2 & 3 = .187 x .250 Series with 1.5" Bore

Position 6—Bearing Type (see Section 3)

- A Angular contact single bearing (not ground for universal duplexing)
- B Angular contact pair—duplexed back to back
- C Radial contact
- F Angular contact pair—duplexed face to face
- T Angular contact pair—duplexed tandem
- U Angular contact single bearing—ground for universal duplexing
- X Four-point contact
- Z Other

Position 7—Separator (see Section 4)

- C Non-metallic composite, segmental, "snap-over" type
- D Phenolic laminate, one-piece ring "snap-over" type
- E Brass, segmental "snap-over" type
- F Full complement bearing—no separator
- G Nylon one-piece ring, circular pocket
- H Phenolic laminate, one-piece ring with circular pockets
- J Nylon strip separator, circular pockets
- K Phenolic laminate, riveted two-piece ring
- L Nylon, one-piece ring "snap-over" type
- M Formed wire, strip or segmental, "snap-over" type, ball in every pocket
- N Nylon, "snap-over" type
- P Standard formed ring "snap-over" type (material—brass or non-metallic composite)
- Q PEEK, one-piece ring, circular pocket
- R Standard formed ring, circular pocket (material—brass or non-metallic composite)
- S Helical coil springs
- T Stainless steel, formed ring "snap-over" type
- U Stainless steel, formed ring circular pockets

- V Brass, formed ring, "snap-over" type
- W Formed wire, strip or segmental, "snap-over" type
- X PEEK, one-piece, "snap-over" pocket
- Y Brass, formed ring, circular pockets
- Z Other (toroids, slugs, spacer balls or others available)

Position 8—Precision (see Section 3)

(ABEC Specifications are per ABMA Standard 26.2)

- 0 KAYDON Precision Class 1 per ABEC 1F
- 1 KAYDON Precision Class 1 with Class 4 Runouts
- 2 KAYDON Precision Class 1 with Class 6 Runouts
- 3 KAYDON Precision Class 3 per ABEC 3F
- 4 KAYDON Precision Class 4 per ABEC 5F
- 6 KAYDON Precision Class 6 per ABEC 7F
- 8 Other

Position 9—Bearing Internal Fit

- A .0000 to .0005 Clearance
- B .0000 to .0010 Clearance
- C .0005 to .0010 Clearance
- D .0005 to .0015 Clearance
- E .0010 to .0020 Clearance
- F .0015 to .0025 Clearance
- G .0020 to .0030 Clearance
- H .0030 to .0040 Clearance
- I .0040 to .0050 Clearance
- J .0050 to .0060 Clearance
- K .0000 to .0005 Preload
- L .0000 to .0010 Preload
- M .0005 to .0010 Preload
- N .0005 to .0015 Preload
- P .0010 to .0020 Preload
- Q .0010 to .0015 Preload
- R .0015 to .0025 Preload
- S .0020 to .0030 Preload
- Z Other clearance or preload not specified above

- Type X or C = Diametral Preload or Clearance
- Duplexed Type A = Axial Preload or Clearance

Note: Above internal bearing fits apply to unmounted bearings only. Mounting fits can greatly affect final internal bearing fit.

Position 10-13—DFAR Compliance

All REALI-SLIM® bearings requiring compliance with Defense Federal Acquisition Regulations (DFAR) "Specialty Metals" and "the Restrictions on Acquisition of Ball and Roller Bearings" clauses will contain '-USA' in positions 10-13. If internal fit is not called out in position 9, it will also contain a dash.

Example #1: KG120XP0L-USA

Example #2: KG120XP0--USA