

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

REALI-SLIM® — The Industry Leader in Thin-Section Bearings

REALI-SLIM® thin-section bearings are known around the world for creating design space and saving weight. Design engineers across a wide spectrum of industries have trusted KAYDON since 1941 for precision and reliability in the most demanding applications.

Catalog 300 has been relied upon for nearly as long, providing users with the specifications, capacities and sizing charts to choose the right bearing for their needs. Every edition offers more choices than ever, and this update is no exception.

What's New

New Line of Sealed REALI-SLIM MM™ Metric Series Bearings

- We are pleased to introduce a new 8mm series of sealed metric REALI-SLIM® bearings in both Type C (Radial Contact) and Type X (Four-Point Contact). Choose from 28 new part numbers, in bore sizes from 25mm up to 170mm. This new series gives you more versatility when your design calls for a sealed bearing.

Expanded Range of JG Series Sealed REALI-SLIM® Bearings

- The JG series of sealed REALI-SLIM® bearings has added 12 new part numbers to its line-up, with new bore sizes from 7.0 inches to 11.0 inches. The JU and JG series now span a range from 7.0 inches to 40.0 inches.

Handy Conversion Table on Inside Back Cover

- To save you a step and make the catalog even more useful, we've added a table of English-Metric equivalents commonly used by design engineers.

More REALI-SLIM® Part Numbers Available From Stock

- Availability from stock has been enhanced for more than a dozen part numbers since the last catalog revision in 2007.

Easier REALI-SLIM® Part Number Identification

- REALI-SLIM® part number tables have been relocated to the inside front cover, so you can find them immediately.

***For latest releases — catalog, software, or
CAD drawing downloads — visit our website
www.kaydonbearings.com.***