

TIMKEN®

Fafnir®



Lettering System

**An Explanation of Prefix and Suffix Lettering Symbols
When Applied to Timken Fafnir Bearing Numbers**



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Symbol	Meaning-When Used As Prefix	Meaning-When Used As Suffix
A	440-C Stainless Steel only rings & balls. Examples: A205K , A542 , etc.	Original maximum (filling slot) type. Example: 417 A (obsolete) May also indicate narrow series type. Examples: 4 A , 104 A (obsolete) Certain aircraft series KFP3 A , KFP4 A . Examples: KP4 A , KSP4 A , (K4 A , KS4 A obsolete) Separator rolls only, external variation. Example: WH16 ASB (obsolete)
AA	Any material other than SAE 52100 Steel or 440-C Stainless Steel.	
ACR		Aluminum clad composition retainer. Example: B542 ACR , 9106K ACR
ACM	Cadmium Plated Precision Stainless Steel Airframe Bearing Example: ACMKP4A	
AK		Stainless Steel retainer type, Aircraft bearing. Example: AW5 AK
B	Aircraft Torque-Tube Type Example: B542	External self-aligning type, but without the "S" ring. Used on radial and wide inner ring types. Example: 209 KB , 310 KB , RA100RR B , G1107KLL B , GN307 K RB
BB	Custom designed industrial grade bearing. Examples: BB203KRR2 , BB204KRNP4	
BC	Bell Crank Units for Aircraft Example: BC4W10 (obsolete)	
BCP	Bell Crank Units for Aircraft Example: BCP4W10	
BJ	Teflon-Fabric Lined Journal Bearings	
BR		Bronze Retainer -stamped on box only. Example: 214K BR
BS	Teflon-Fabric Lined Plain Spherical Bearings-Standard Series	External self-aligning aircraft torque-tube type. Example: KP25 BS
BSH	Teflon-Fabric Lined Plain Spherical Bearings-Heavy Duty Series	
BU	Metal-On-Metal Plain Spherical Bearings Example: BU8ALN21	
BW	Teflon-Fabric Lined Thrust Washer Fabric on one face	

Symbol	Meaning—When Used As Prefix	Meaning—When Used As Suffix
C	Instrument-miniature bearings only Radial play .0002 to .0004 (obsolete) Concentric Locking Collar Example: GC 1100KRRB Denotes Hybrid Ceramic Precision Bearings. Example: 2MM C 9306WOCRDL	Narrow Series - 4 C 104 C , etc. (obsolete) A few sizes to denote "cloth cutter fit-up" requiring tight smooth bearings. Examples: 200-OC C , 201HC C , 43305 C , etc. (obsolete) Also used on earlier series roller bearings to indicate width. Example: R319 C (obsolete) Separator Roll only external variation. Example: WH9 C SB (obsolete)
C1,C2 C3,ETC.		Denotes internal construction change. Overall dimensions and internal clearance unchanged
CC	M50 NIL Material (Any or all components) Example: CCV 9126-18	
COL		Supplied with collar.
CPD	Custom Precision double row bearing. Example: CPD 539KDD (obsolete)	
CPDP	Custom Precision Disc Pack Example: CPDP 225 (obsolete)	
CPT	Custom Precision triple row bearing Example: CPT 2-2 (obsolete)	
CR	Cargo Roller Example: CR 5N24-2	Stamped on box only to designate composition retainer. Example: 310K CR
CRD	Cargo Roller having double row of balls. Example: CRD 4G18	
CRV		Composition Retainer vacuum impregnated with oil. Example: 36-9 CRV
D	Aircraft Double-Row-Metal Shields. Example: D 3, etc. (obsolete) Also Aircraft Track Rollers. Example: D 7R6-3	Steel Plate grease shield on one side of bearing. Example: 307 KD
DB		Duplex back-to-back. Used with angular contact and precision spindle type bearing. Stamped on box only. Examples: 7207W- DB , 2MM207WI- DB
DD		Shields on both sides of bearing. Example: 205 KDD , RA100 DD
DF		Duplex face-to-face. Used usually with angular contact precision spindle type bearings. Stamped on box only. Examples: 7207W- DF , 2MM207WI- DF , etc. Bearings match "DF" can also be used "DB," "DBF," or "DT."
DP	Aircraft Double-Row Seal Type Example: DP 3 (obsolete)	

Symbol	Meaning-When Used As Prefix	Meaning-When Used As Suffix
DPP	Aircraft Double-Row Seal Type Example: DPP5	
DR		Delrin Retainer. Example: AMV8K16- DR
DSP	Aircraft Double-Row Self-Aligning with Seals Example: DSP3 , etc.	
DSRP	Aircraft Self-Aligning Roller with Seals Example: DSRP6	
DT		Duplex Tandem. (7000 series and precision spindle types usually). Examples: 7210W DT , 2M209W DT . (Bearings matched " DT " can also be used "DB" or "DF").
DU		Duplex Universal-flush-ground for mounting DB, DF, or DT. Example: 7205W DU
DUH		Duplex Universal-heavy preload for precision bearings. Example: 3MM210WICR DUH
DUL		Duplex Universal-light preload for precision bearings. Example: 2MM207WICR DUL
DUM		Duplex Universal-medium preload for precision bearings. Example: 2MM209WICR DUM
DUX		Duplex Universal-ultra light preload for precision bearings. Example: 2MM209WICR DUX
DW	Aircraft Wide Double Row: DW5 , etc.	
DWG		Snap ring (Wireloc) opposite side of shield and slot of maximum capacity bearings.
E	Wide Inner Ring Bearing with metric bore. Example: E25KPPB3	
EC		Supplied with end cover.
ER	Setscrew Inner on Wide inner bearings.	
EX		Excello Bearings. Example: MM50 EX
F	Flanged outer ring. Flange housings. Example: F4	
FBJ	Teflon-Fabric Lined flanged journal bearings. Liner in bore only.	
FBJW	Teflon-Fabric Lined flanged journal bearings. Liner in bore and on face of flange.	

Symbol	Meaning—When Used As Prefix	Meaning—When Used As Suffix
FL	Aircraft Fairlead bearings: FL 3C3, etc.	
FT		Full type. Max. number of balls without retainer. Example: 7213 FT
G	Aircraft Guide Roll: Example: G 4Y17, etc. Relubricatable Wide Inner Ring Bearing. Example: G 1100KLLB, etc.	Wireloc or snap Ring Type. Example: 207PP G , 306 G , etc. Separator rolls only, grease lubricated Example: WH9SB G (obsolete)
GC	Wide inner ring with concentric collar. Example: GC 1100KRRB	
GD	Aircraft Double Row Guide Roll. Example: GD 5M20	
GDW	Aircraft wide double row with relubrication provision in outer. Example: GDW 5	Wireloc, slot, and shield on same side of maximum capacity bearing. Example: 212 GDW
GDSRP	Relubricatable, self-aligning roller bearing with Seals. Example: GDSRP 6	
GE	Wide Inner ring bearing with metric bore. Example: GE 50KRRB	
GN	Heavy Series. Relubricatable Wide Inner Ring Bearings. Example: GN 107KLLB	
GRAE	Std. series-relubricatable metric bore extended inner ring. Example: GRAE 17RRB	
GW		Wireloc on slot side. Example: 207 GW
GWD		Wireloc and shield on side opposite slot of maximum capacity bearings. Example: 210 GWD
H	Stamped on box only designates snug internal fit-up. Example: H 205KD, etc.	Early Conrad type. Examples: 204 H , 8207 H (obsolete) (superseded by "K" type)
HX		Counterbored inner and outer. Example: 2MMV9103 HX
J	Stamped on box only indicates extra loose internal fit-up. Example: J 204 K	
JA	Teflon-Fabric Lined Self-Aligning Journal Bearing.	
JJ	Extra-Extra loose internal fit-up stamped on box only Example: JJ 203K	
K	Aircraft Single Row Double Shielded. Example: K3 (obsolete) now replaced with KPS (Seal Type), etc.	Conrad (non-filling slot) type. Examples: 207 K , 205 K , K47 BK , etc.
KF	Single Row bearings with Felt seals. Example: KF 4A (obsolete)	
KFP	Aircraft single row wide width seal type. Example: KFP 6A	

Symbol	Meaning-When Used As Prefix	Meaning-When Used As Suffix
KN		Narrower than standard 5000 series.
KP	Aircraft single row seal type. Example: KP10A , KP37B	
KS	Aircraft Single Row Internal Self-Aligning with shields. Example: KS5 (obsolete)	
KSP	Aircraft Single Row Internal Self-Aligning bearing with bonded seal. Example: KSP3 (Supersedes KS series)	
KT		Wide Inner Type to denote change in outer ring size from original design. Example: SM1108 KT
L	Internal Self-Aligning type. Examples: L207 , L6307 , L5507 , etc.	Mechani-Seal on one side of Single Row Radial and Wide Inner Ring bearings. Examples: 205 KL , 1012 KL , etc. Also a light series Aircraft sizes as K3 L with shields.
L		Light Drag Seal for Low Torque Example: 203 PPL
L/C		Supplied without Collar.
LD		Mechani-Seal on one side, Plate Shield on other. Examples: 204 KLD , 209 KLD , etc.
LDG		Wireloc and Shield on same side. Wide Inner Ring Type Shield on side opposite Wireloc, Seal, and cam side. Examples: 304 KLDG , 1100 KLDG
LF		Mechani-Seal one side with Felt or Composition between seal members. Example: 1105 WLF
LG		Wireloc on side opposite Mechani-Seal. Example: 203 LG Wide Inner Ring Type Wireloc and Mechani-Seal on Cam Side. Example: 1100 KLLG
LL		Mechani-Seals both sides of bearing. Radial and Wide Inner types. Examples: 207 KLL , 1107 KLL , etc.
LLBF		LL Seals with Felt or Composition between seal members plus spherical outer O.D. Example: 1103 KLLBF (obsolete)
LLF		LL Seal with Felt or Composition between seal members. Example: G1107 KLLF
M	Precision type manufactured to meet ABEC-3 specifications. Example: M207K When used with aircraft type bearings, bearings are manufactured to Fafnir Precision Airframe tolerances. Example: MKP4 , MDW5 Medium Duty Example: GY M 1103KRRB, YAS M 1 $\frac{3}{16}$	

Symbol	Meaning-When Used As Prefix	Meaning-When Used As Suffix
PBR		Pressed bronze retainer. Stamped on box only.
PDG		Wireloc and Shield on same side.
PG		Wireloc on side opposite seal.
PP		Seal on both sides of bearing. Example: 204 PP
PRA, B, C, ETC.		Denotes plastic retainer variations (could be change in design and/or material). Example: B539 PRA
PS		Non-stamped seals. Cap stamped "Fafnir made in USA" only. Example: 9102 PS
PW		Extra Duty Radial-thrust type (7000 series). 35 degrees angle contact. Example: 7312 PW
PWI		Seal with low land on opposite side of inner ring. Example: Y96 PWI
Q	Special Endplay requirement for double row bearings.	
QUH		Quadruplex set of bearings, Heavy
QUL		Quadruplex set of bearings, Light
QUM		Quadruplex set of bearings, Medium
QUX		Quadruplex set of bearings, Ultra Light
R	Radial Play. When not the normal fit of bearing.	Single Seal with lip contact on straight cylindrical surface of inner ring O.D. Example: 1100 KR
RA	Aircraft Rod-End Bearings Example: RA 10M10 Also used for Wide Inner Ring Bearings RA -RR and RA -RRB. Example: RA 100RRB.	
RAE	Metric Wide Inner Example: RAE 25RRB	
RAL	Wide Inner Ring Bearings -Light series Example: RAL 100NPPB	
RB	Double Shielded non-relubricatable Wide Inner Ring Bearings used in Rubber Pillow Blocks. Example: RB 012, etc.	
RE	Aircraft Rod End Bearings with shields. Example: RE 5M6 (obsolete)	
REB	Aircraft Rod End Bearings with shields. Example: REB 3N (obsolete)	
REF	Teflon-Fabric Lined female rodend.	
REH	Teflon-Fabric Lined Hollow shank rodend.	

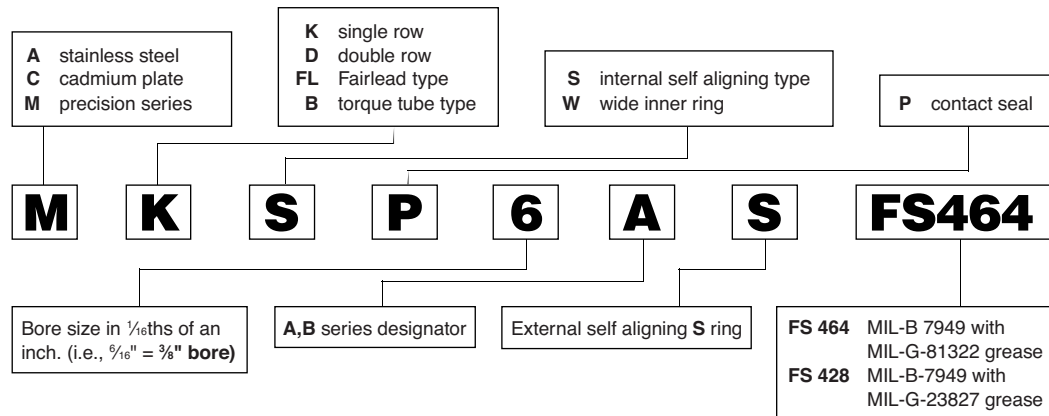
Symbol	Meaning—When Used As Prefix	Meaning—When Used As Suffix
REMS	Teflon-Fabric Lined male rodend with keyway in shank.	
REP	Precision Aircraft Rod End with Seals. Example: REP 4M6	
RI		Roller bearing with double shouldered inner race, rollers, and retainer assembly (no outer) Example: V9107 RI
RIW		Roller bearing with straight cylindrical outer race and double shouldered inner race. Example: V205 RIW
RO		Roller bearing with double shouldered outer race, rollers and retainer assembly (no inner). Example: V9102 RO
ROW		Roller bearing with double shouldered outer race and straight cylindrical inner race. Example: V302 ROW
RR	Aircraft roller rodend bearings. Example: RR 4M9	Double Seal with lips contacting straight cylindrical surface of inner ring O.D. Example: 1207 KRR
RS	Double Shielded (No provision for relubrication) Wide Inner Ring bearings used in rubber Pillow Blocks. Example: RS 012	
RWI		Roller bearing with double shouldered outer race. Example: V9306 RWI
RWN		Roller bearing with single shouldered inner and outer race assembled with shoulders on opposite side of bearing. Example: V208 RWN
RWO		Roller bearing with full shouldered outer and single shouldered inner. Example: V9107 RWO
S	Small inch dimension sizes Example: S 3K Prefix on Self-Locking collars for Wide Inner Ring bearings. Example: S 1203K	External Self-Aligning type. Spherical surface on the O.D. is matched with an internal Spherical surface of an extra ring having a straight or flat O.D. Used to designate Single Row and Wide Inner Ring bearings. Examples: 209 KS , SM1215 KS
SBS	Teflon-Fabric Lined plain spherical bearings with circumferential groove in face of Outer Ring. Standard series.	
SBSH	Teflon-Fabric Lined plain spherical bearings with circumferential groove in face of Outer Ring. Heavy Duty series.	

Symbol	Meaning-When Used As Prefix	Meaning-When Used As Suffix
SUH		Universal Heavy preload packaged singly. Example: 2MM205WICR SUH
SUL		Universal Light preload packaged singly. Example: 2MM205WICR SUL
SUM		Universal Medium preload packaged singly. Example: 2MM205WICR SUM
SUX		Universal Ultra light preload packaged singly. Example: 2MM205WICR SUX
SM	Denotes Wide Inner Ring bearing with Self-Locking collar and with bore tolerances held closer than those prior to 1927. Examples: SM 1203K (bearing is 200 series)	Thrust bearings -one washer bore 1/32" larger than other. Example: 4307 SM
SME	Millimeter Bore industrial bearing Example: SME 30K inner.	
SMBR		Iron Silicon Bronze Machined Retainer. Stamped on box only.
SMN	Same as for SM except bearing is 300 series. Example: SMN 203K	
SMO	Similar to SMN except longer ring. Old designation. Example: SMO 212K	
STR		Steel Stayrod Retainer. Example: 7204W STR SU
SU		7000 Series bearing flush ground on both faces for universal mounting (Single bearing)
T	Stamped on box only. Indicates tight internal fit-up. Example: T 304K	Felt Seal on one side of bearing. Example: 204 KT
TD		Felt Seal on one side with metal grease shield on the other side of bearing. Example: 206 KTD
TDCF		THIN Dense Chrome plating & stainless steel seals and balls. Food grade grease.
TS		Teflon tubular spaces for separators. Example: AV542K TS
TT		Felt Seal on both sides of bearing. Example: 205 KTT
TUH		Triplex set of bearings, heavy preload.
TUL		Triplex set of bearings, light preload.
TUM		Triplex set of bearings, medium preload.
TUX		Triplex set of bearings, ultra light preload.
V	Precision Type manufactured to meet ABEC-5 tolerances. Example: V 207K	Extra small bearings used in vacuum cleaners. Example: 38 KV Light drag single seal. (Example: 202 V)
VL		One Mechani-Seal. Example: 37 KVL
VLD		Mechani-Seal one side of bearing, plate grease shield on other. Example: 38 KVLD

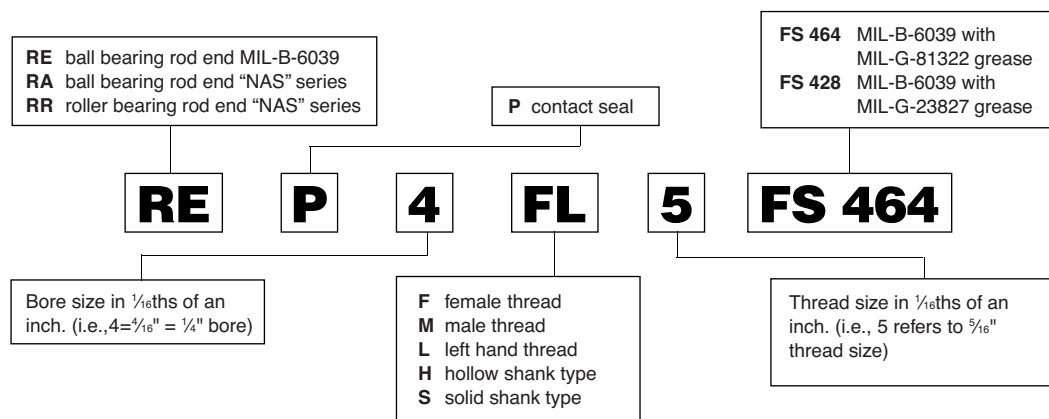
Symbol	Meaning—When Used As Prefix	Meaning—When Used As Suffix
VLL		Mechani-Seal both sides. Example: 38 KVLL
VT		One Felt Seal. Example: 39 KVT
VTD		Felt Seal on one side of bearing, plate grease shield on other. Example: 38 KVTD
VTT		Felt Seal on both sides. Example: 38 KVTT
VV		Light drag double seal. Example: 202 VV
W	Wide-Type Seal bearings. Example: W 307PP Single row bearings widths same as Double row bearings of corresponding sizes. Example: W 205PP, W 205KLL Wide Air Frame bearings Example: W 4AK	20 and 30 degree contact angle (depending on size) for 7000 series angular contact bearings. Example: 7204 W , 7207 W Maximum ball complement deep groove bearings. Example: 309 W
WBS	Teflon-Fabric Lined Plain Spherical bearing-extended inner series.	
WD		Maximum capacity type, shield on one side. Example: 310 WD
WDD		Maximum capacity type, shield on both sides. Example: 310 WDD
WDG		Maximum capacity type, with Wireloc and slot on side opposite shield Example: 310 WDG
WG		Maximum capacity type, with Wireloc on side opposite slot. Example: 310 WG
WH	Whitin Machine Textile bearings. Example: WH 5 (obsolete)	
WI		Counterbored outer ring angular contact bearings. Example: 2MM207 WI
WIR	Single row bearing with Double Row width inner ring extended one side. Example: WIR 315W	
WIX		Ultra precision type for high speed spindles. Boxed only in pairs that can be mounted "DB," "DF" or "DT." Example: 3MM203 WIX (obsolete)
WN		Counterbored inner and outer. Example: 2MM203 WN , 7330 WN
WO		Counterbored inner ring angular contact bearings. Example: 2MM9106 WO

Symbol	Meaning-When Used As Prefix	Meaning-When Used As Suffix
WP		7000 Series with 35 degrees contact angle and outer ring 1mm narrower than inner. Example: 7214 WP (obsolete). Superseded by 7000WP series.
WSBS	Teflon-Fabric Lined Plain Spherical bearings with circumferential groove in face of outer ring. Extended inner series.	
WW		Woodworking type. Machined-bronze two-piece riveted retainers, usually used with precision bearings having prefix "M." Example: M408H WW (obsolete)
WZZ		Double Row Aircraft Control Bearing with "DB" angle and seals. Example: B5539 WZZ
XLS	Extra Large Series, Inch Dimensions. Example: XLS 56K	
Y	Helicopter Bearings. Examples: Y 80PWI, Y 64K-2	Double Lip Agricultural Seal (One Side)
Y-	Contact shroud seal, with wide inner ring setscrew lock	
YA	Wide Inner-setscrew bearing Example: YA 100RR	
YB, YN, YO, YR, YS, YT, YU	Prefixes used with inch-dimensioned thin section bearings to denote different cross sections. Example: AMM YN 128WI, AA YR 144K	
YY		Double Lip Agricultural Seal (Both Sides)
ZT		Zinc plated housing -assembled with TDC (Thin Dense Chrome) plated bearings.
ZZ		Special Labyrinth Seals with Felt or Composition between seal members -very few sizes. Example: 309K ZZ -2 (obsolete) Double Row Aircraft Control Bearing with "DF" angle and contact seals. Example: B5541 ZZ (obsolete)
-2, -3, -4, ETC.		Any bearing number followed by a single or double digit indicates a bearing differing from standard (as represented by the bearing proper) in one respect or another. Examples: 201K- 3 , 207KRRB- 2 , etc.
2	Angular contact ABEC-7, 15° contact angle Example: 2 MM207WI	
3	Angular contact ABEC-7, 25° contact angle Example: 3 MM207WI	

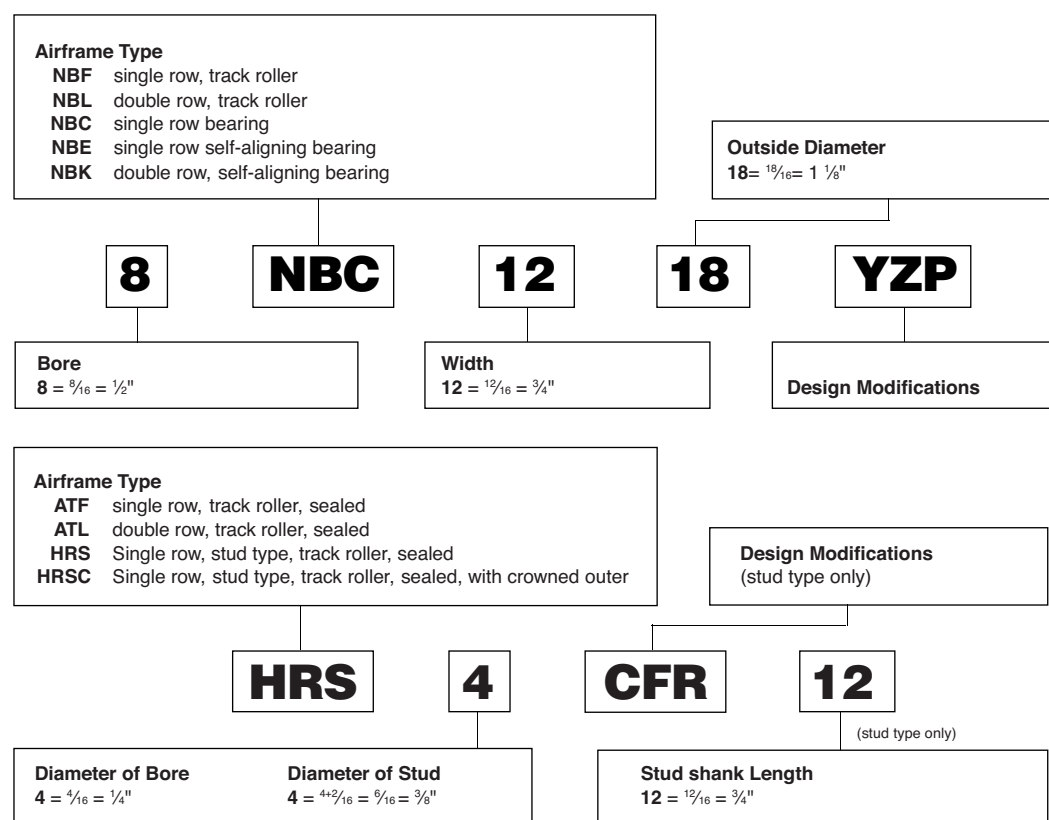
Control Bearings



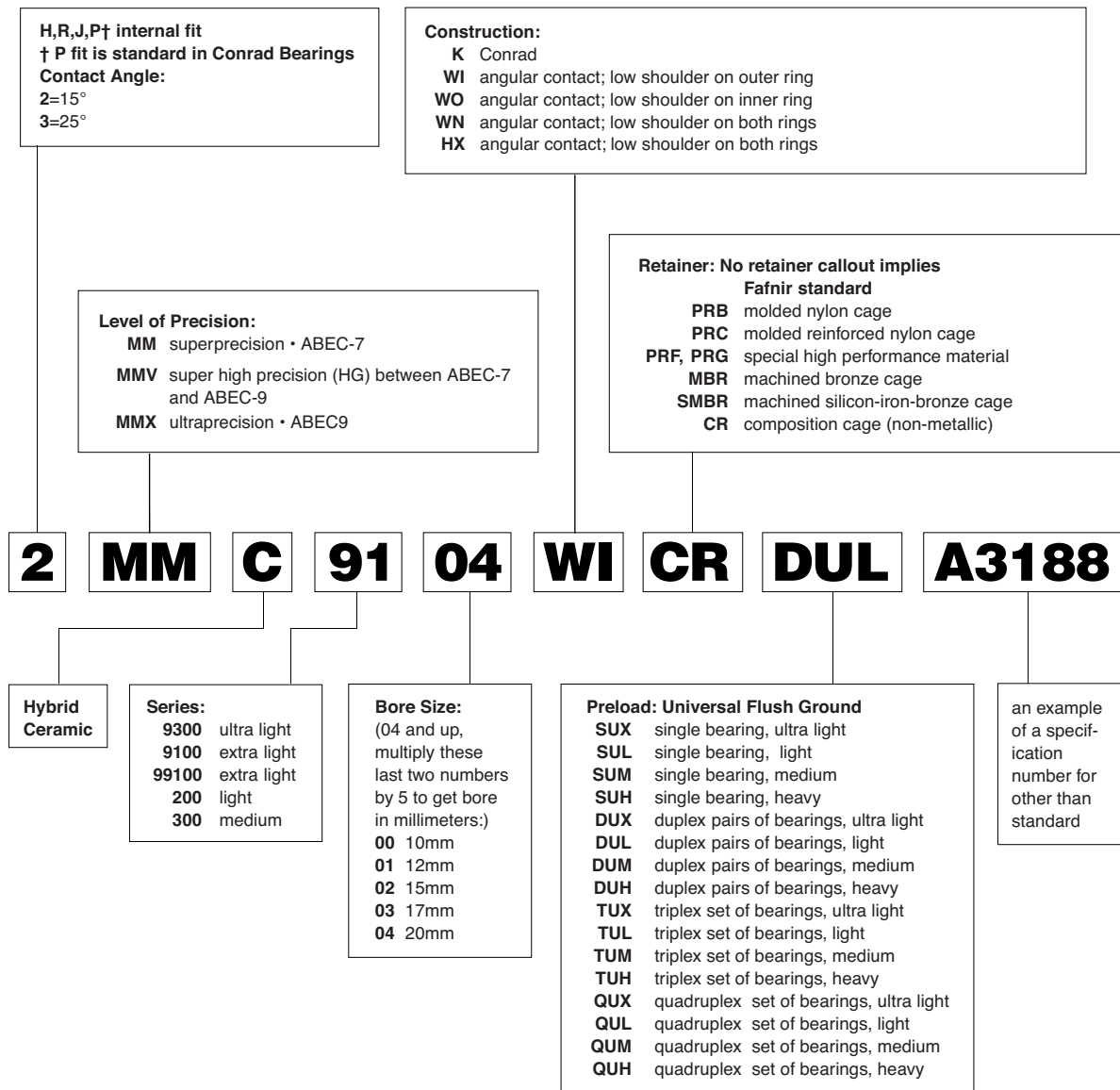
Rod End Bearings



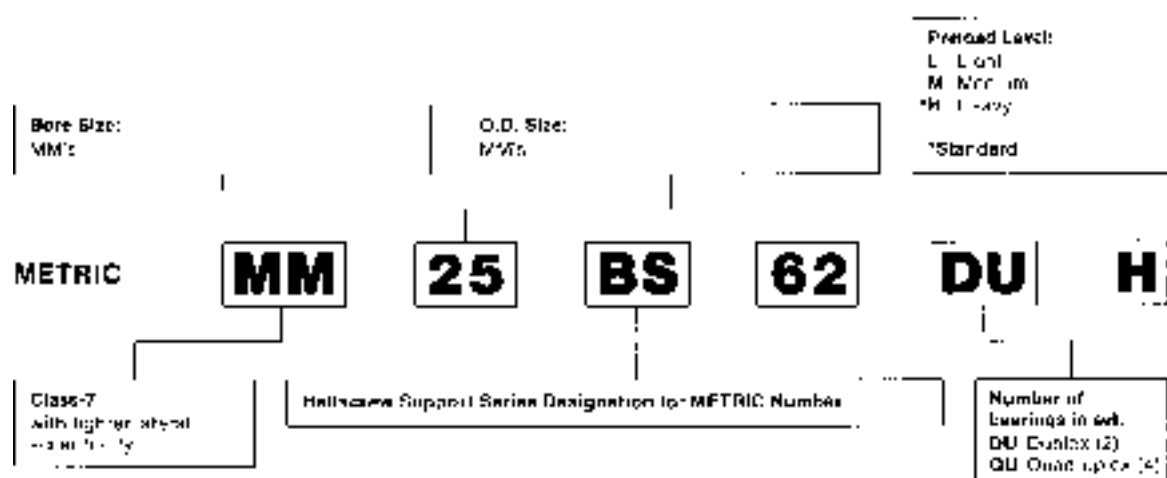
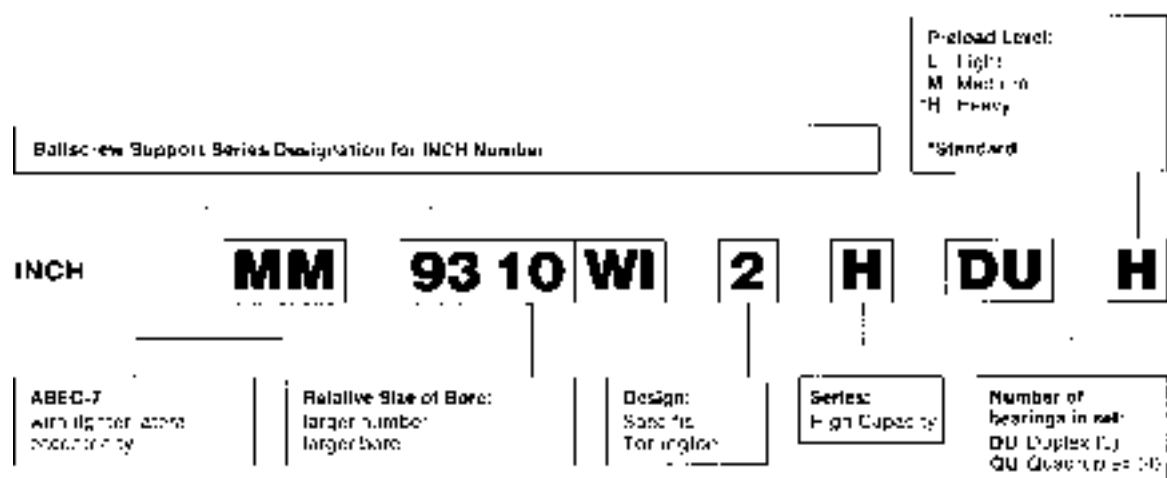
Airframe Needle Roller Bearings



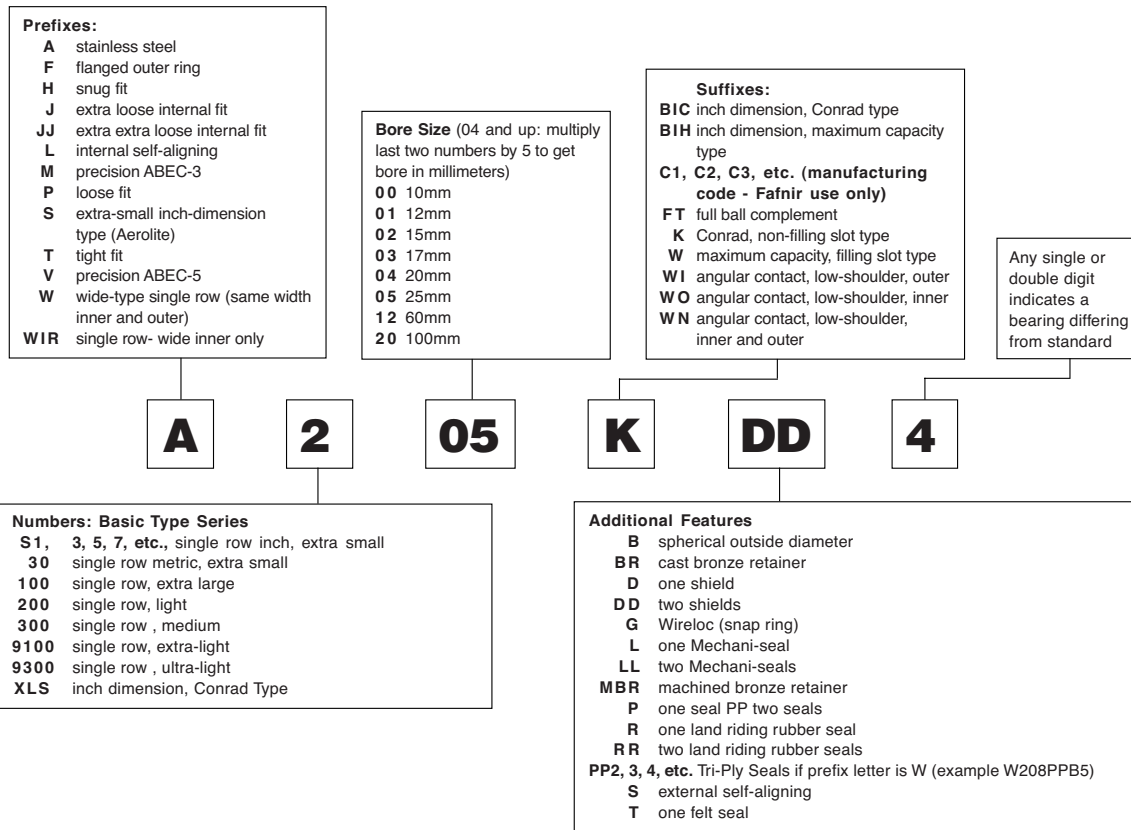
Superprecision Ball Bearings



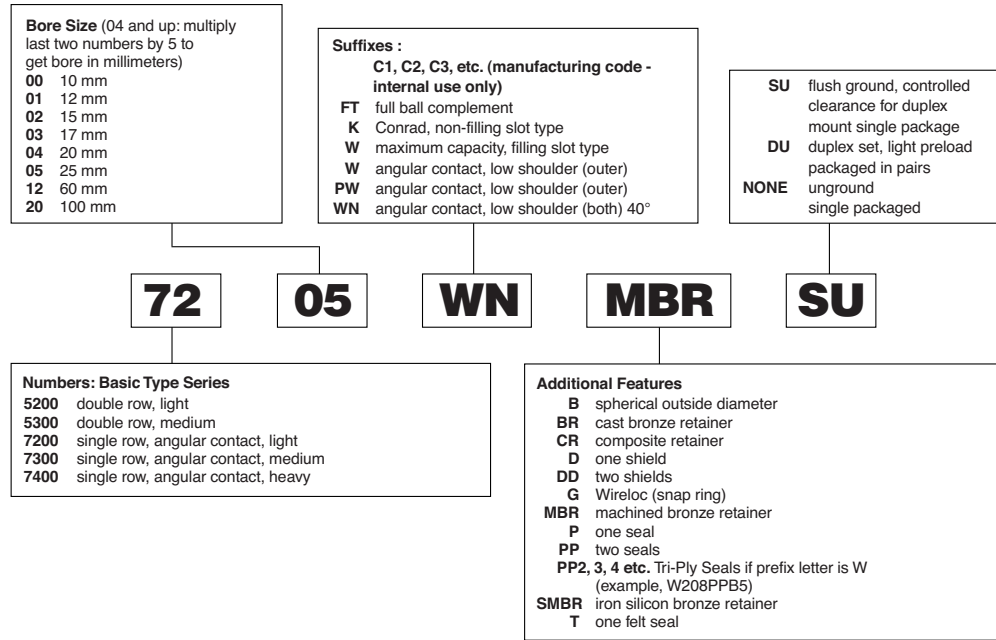
Ballscrew Support Bearings



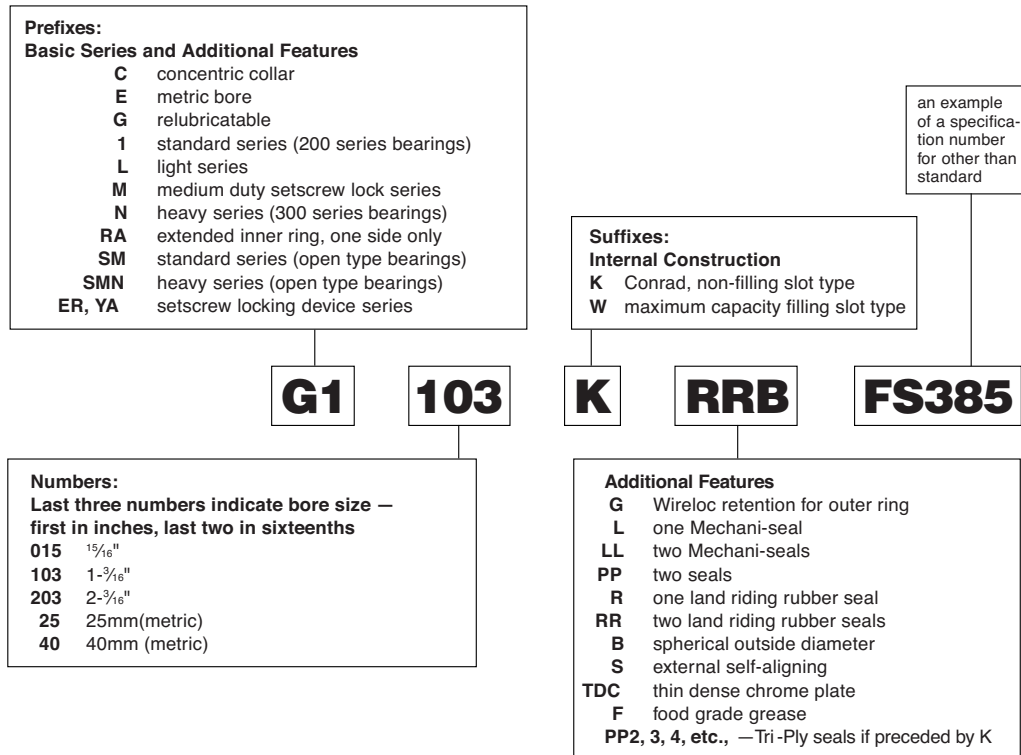
Radial Bearings



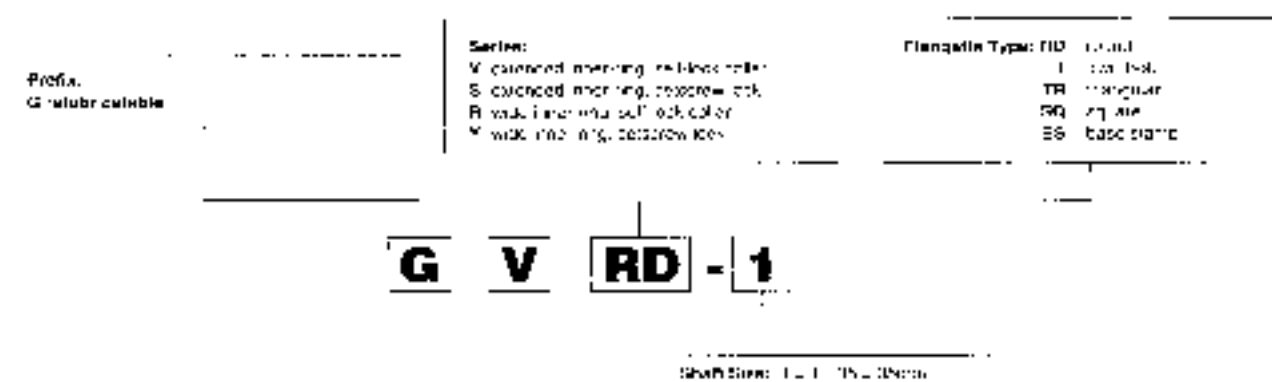
Angular Contact Ball Bearings



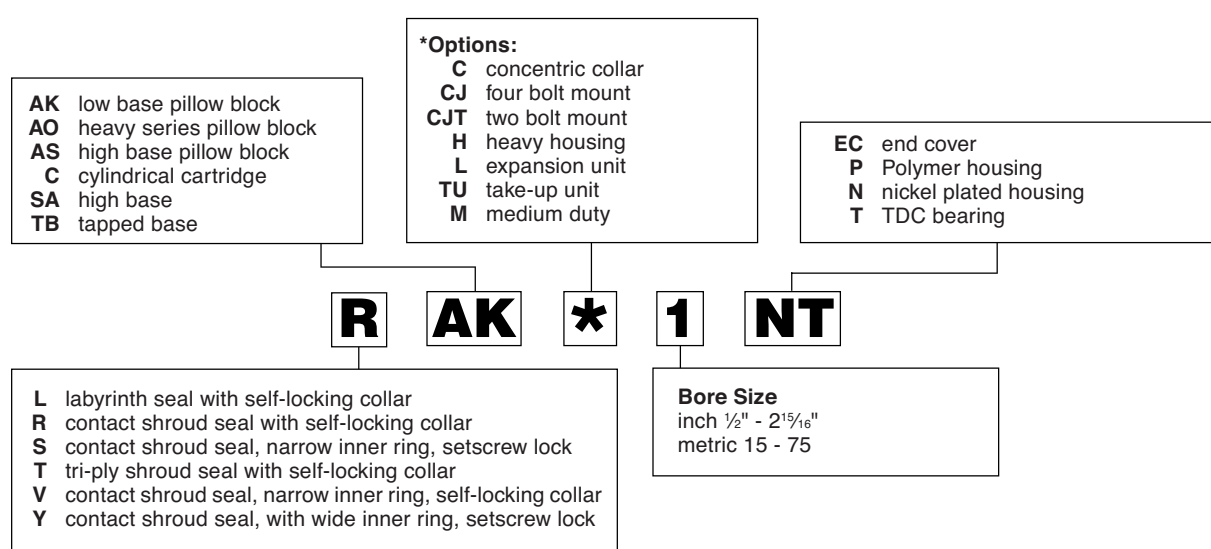
Wide Inner Ring Bearings



Flangetted Housed Units



Cast Iron Housed Units



Symbol	Meaning—When Used As Prefix	Meaning—When Used As Suffix
MAR		Machined Aluminum Retainer. Stamped on box only.
MBR		Machined Bronze Retainer. Stamped on box only.
MIR		Malleable Iron Retainer. Stamped on box only.
MM	Superprecision type manufactured to meet ABEC-7 specifications. Example: MM 205K, 2MM 207WI	
MMV	Modified Class 7 tolerance-Super high (HG) precision between ABEC 7 and ABEC 9.	
MMX	ABEC-9 tolerance	
MSR		Machined Steel Retainer. Example: MM208K MSR stamped on box only.
MUA	Machined Unit., Cyl. outer 200 series	
MUB	Machined Unit., Spherical outer diameter 200 series	
MUOA	Machined Unit., Cyl. outer 300 series	
MUOB	Machined Unit., Spherical outer diameter 200 series	
MV	Instrument bearings only. Modified ABEC-7 P tolerances. Example: MV 33KDD5	
MVR		Machined Vespel Retainer. Stamped on box only.
N	Heavy Series nonrelubricatable Wide Inner Ring Bearings. Example: N 107KRR	On shielded bearings, suffix “ N ” means closer-fitting grease shield with more land on bearing face. Example: 307WDD N
NGSR		Nylatron GS Retainer. Example: 9108WI NGSR
NP		Non-removable Seals on one side. Example: 207 NP
NPP		Two non-removable Seals. Example: 202 NPP
NT		Nickel plated housing-assembled with TDC (thin dense chrome) bearings.
O	Super Quiet bearing utilizing a bonded rubber interliner. Examples: OS 5KDD, O 9106KDD	
P	Indicates loose internal fit-up. (ABMA #3) Examples: PS 3K, P 303PP Aircraft special pulley bearings. Example: P 5K	Seal on one side of bearings. Example: 205 P

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5M-8-03 Order No. 5730 (formerly Torrington No. 643)