

SMB NUMBERING SYSTEM

S	FR	4	TP	-	EMQ	-	A3	P58	AF2	PRC
-	-	6801	-	ZZ	-	W7	P0	MC3	B32	STD
Material	Series	Basic Size	Retainer	Closures	Noise Rating	Modified Dimension	Tolerance	Radial Play	Lubricant	SMB Class

BEARING MATERIAL

- No Prefix Chrome steel SAE 52100
- S Stainless steel KS440/AISI440C
- CB Chrome steel + ceramic balls
- SCB Stainless steel + ceramic balls

SERIES

- No Prefix Metric/1600 series
- F Flanged metric/Thrust/Taper O.D.
- FR Flanged inch
- FRW Flanged & ext. inner inch
- MF Flanged metric
- MR Metric
- R Inch
- RW Extended inner inch

BASIC SIZE

(See Dimension Tables)

RETAINER

- No suffix Metal crown or ribbon
- TH Delrin crown
- TP Phenolic crown
- V Full complement

CLOSURES

- No suffix Open type
- ZZ 2 metal shields
- 2RS 2 rubber seals
- TTS 2 teflon seals

NOISE RATING

- EMQ Low noise motor application
- EMQ2 Extra low noise motor application

MODIFIED DIMENSION

- B Non-standard bore
- A Non-standard O.D.
- W Non-standard width

TOLERANCE GRADE

SMB bearings are made to ISO tolerance grades P0 to P4 which are equivalent to AFBMA grades Abec1 to Abec7. Further details are given in the tolerance tables in "Engineering Data".

RADIAL PLAY

Radial play is measured in miniature bearings in either microns (MC1, MC2, MC3 etc) or in ten-thousandths of an inch (P02, P24, P35 etc). Larger bearings use wider groupings (C2, C3, C4 etc). See Engineering Data for radial play tables.

LUBRICANT

See Engineering Data for lubricant lists.

SMB CLASS

SMB bearings are graded into 2 major classes, "STD" (standard) and "PRC" (precision). "STD" class bearings will generally be from P0 to P6 precision while "PRC" are available in P6 upwards with a standard noise test.