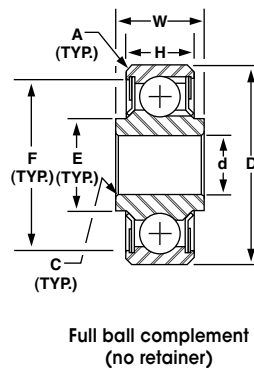
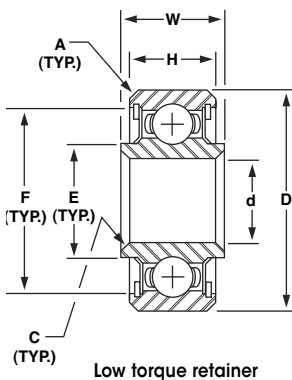
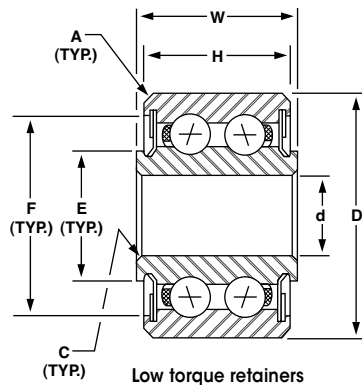


KP-AK, KP-K, W-AK, P-K, PD-K, P- Series (AS21443)



Notes:

1. Rings and balls are manufactured from premium quality AISI 52100 chrome steel.
2. Operating temperature range: -65 to +250 °F.
3. All bearings include removable PTFE seals.
4. Bearings are lubricated with MIL-PRF-81322 grease, 80% minimum fill, unless otherwise specified.
5. External surfaces (except bore) are cadmium plated per AMS-QQ-P-416. All dimensions apply after plating.
6. Custom sizes, materials, tolerances, radial internal clearances, lubrication, plating, etc., are available upon request.
7. See "Airframe Part Numbering System" on page 5 for correct NHBB nomenclature.
8. All dimensions are in inches, unless otherwise specified.

Refer to the Qualifications and Manufacturing Schedule for a current list of the Precision Division's AS7949 qualifications and manufacturing capabilities.

KP-AK, KP-K, W-AK, P-K, PD-K, P- (AS21443) — Qualified to SAE AS7949

NHBB BASIC P/N	MS21443 DASH NO.	BORE d	O.D. D	RING WIDTH		BALL COMPLEMENT		RING SHOULDER DIAMETER		RING CHAMFER X 45°		LOAD RATINGS (LBS.)				APPROX. WEIGHT
				OUTER H	INNER W	NO.	DIA.	OUTER F	INNER E	STATIC		DYNAMIC RADIAL+ RING ROTATION				
										RADIAL	THRUST	INNER	OUTER			
		+0.000 -0.005	+0.000 -0.005	+0.000 -0.005	+0.000 -0.005			REF.	REF.	+0.015 -0.000	+0.015 -0.000	RADIAL LIMIT	AXIAL LIMIT			LBS.
KP3AK ⁽¹⁾	-3A	.1900	.6250	.234	.297	8	3/32	.522	.297	.016	.005	705	385	705	705	.01
KP3AK2 ⁽¹⁾	(4)	.1900	.6250	.234	.625	8	3/32	.522	.297	.016	.005	705	385	705	705	.02
KP3K ⁽¹⁾	-3B	.1900	.7774	.270	.297	7	1/8	.623	.328	.024	.005	1090	600	1090	1090	.02
W4AK ⁽¹⁾	-4A	.2500	.7500	.312	.438	6	9/64	.646	.400	.016	.005	1090	600	1090	1090	.03
P4K ⁽¹⁾	-4B	.2500	.8750	.375	.438	7	5/32	.725	.433	.022	.005	1710	800	1710	1710	.04
KP4K ⁽¹⁾	-4C	.2500	.9014	.335	.484	7	5/32	.735	.405	.034	.005	1710	800	1710	1710	.04
P5K ⁽¹⁾	-5A	.3125	.8750	.375	.625	7	5/32	.725	.455	.022	.005	1710	800	1710	1710	.04
PD5K ⁽²⁾	-5B	.3125	.9375	.563	.625	14	5/32	.774	.475	.022	.005	3420	1030	3250	2800	.07
P8 ⁽³⁾	-8	.5000	1.6875	.563	.750	10	11/32	1.457	.768	.032	.005	11800	5200	9320	7730	.24
P10K ⁽¹⁾⁽⁵⁾	-10	.6250	1.1875	.375	.438	11	5/32	1.048	.749	.022	.005	2440	1100	2420	2180	.06

Radial internal clearance: .0004 to .0010

⁽¹⁾ Single row construction—low torque retainer

⁽²⁾ Double row construction—low torque retainers

⁽³⁾ Single row construction—full ball complement (no retainer)

⁽⁴⁾ KP3AK2 equivalent not defined.

⁽⁵⁾ Riveted cage

+ Dynamic radial load ratings are for operation up to 250 °F. Reduce load ratings by 20% for 250 to 350 °F operation. Dynamic radial load ratings are based on an average life of 10,000 complete 90° cycles.