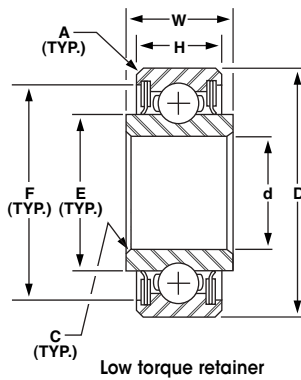




SSW-AK Series (AS27649)



Notes:

1. Rings and balls are manufactured from premium quality AISI 440C stainless 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. Custom sizes, materials, tolerances, radial internal clearances, lubrication, plating, etc., are available upon request.
6. See "Airframe Part Numbering System" on page 5 for correct NHBB nomenclature.
7. 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.

SSW-AK (AS27649) — Qualified to SAE AS7949

NHBB BASIC P/N	MS27649 DASH NO.	BORE d	O.D. D	RING WIDTH		BALL COMPLEMENT		RING SHOULDER DIAMETER		RING CHAMFER X 45°		LOAD RATINGS (LBS.)				APPROX. WEIGHT	MAX. STARTING TORQUE <sup>^</sup>
				OUTER H	INNER W	NO.	DIA.	OUTER F	INNER E	OUTER A	INNER C	STATIC		DYNAMIC RADIAL* RING ROTATION			
												RADIAL LIMIT	THRUST LIMIT	INNER	OUTER		
		+0.0000 -0.0005	+0.0000 -0.0005	+0.000 -0.005	+0.0000 -0.0025			REF.	REF.	+0.015 -0.000	+0.015 -0.000	RADIAL LIMIT	AXIAL LIMIT			LBS.	OZ.-IN.
SSW3AK	-3	.1900	.6250	.312	.4060	6	1/8	.519	.295	.016	.005	450	210	440	440	.018	1.0
SSW4AK	-4	.2500	.7500	.312	.4380	6	9/64	.643	.402	.016	.005	525	250	510	510	.028	1.5
SSW5AK	-5	.3125	.8125	.344	.4690	7	5/32	.721	.463	.016	.015	820	380	800	800	.033	1.5
SSW6AK	-6	.3750	.8750	.344	.4690	7	5/32	.768	.520	.016	.015	820	380	800	800	.034	2.0
SSW8AK	-8	.5000	1.1250	.438	.5620	8	3/16	.968	.669	.016	.015	1350	630	1310	1310	.075	2.5
SSW10AK	-10	.6250	1.3750	.469	.5940	8	7/32	1.242	.848	.032	.015	1840	860	1790	1790	.119	3.0
SSW12AK	-12	.7500	1.6250	.531	.6560	8	1/4	1.370	1.018	.032	.015	2400	1120	2340	2340	.189	3.0
SSW16AK	-16	1.0000	2.0000	.562	.6880	10	1/4	1.672	1.334	.032	.015	3000	1400	2920	2920	.296	4.0
SSW20AK	-20	1.2500	2.2500	.562	.6880	12	1/4	1.953	1.615	.032	.015	3600	1680	3500	3270	.355	5.0

Radial internal clearance: .0003 to .0009

+ 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.

<sup>^</sup> Torque limits are for bearings lubricated with MIL-PRF-81322 grease. For bearings lubricated with MIL-PRF-23827, multiply torque limits by a factor of 1.2.