

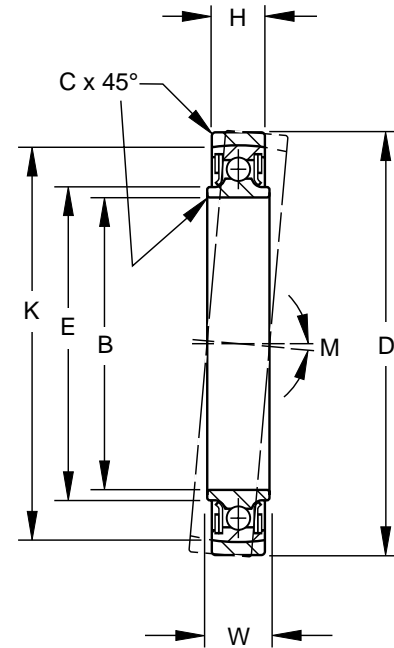
AIRFRAME CONTROL BALL BEARINGS — KP-BS SERIES SELF-ALIGNING TORQUE TUBE



MS27648 • SAE-AS7949

- Single row, ball, external self aligning, extra light duty
- PTFE seals and CRES sealcaps
- Exposed surfaces except bore, caps, and seals are cadmium plated
- Prelubricated for life
- Series is internally identical to the KP-B series. Self-alignment is provided by an external self-aligning ring whose internal spherically-ground surface is accurately matched to the external spherically-ground surface of the outer ring. These bearings are designed to compensate for initial misalignment
- Also offered with CRES 440C material and/or zinc nickel plating per OEM specifications

AIRFRAME CONTROL BALL BEARINGS



SPECIFICATIONS AND ORDERING INFORMATION

TO ORDER, SPECIFY BEARING NUMBER AND FACTORY SPECIFICATION. SEE TABLE 1 ON PG 8. (Example KP16BS FS464)

Bearing Number	MS 27648 Dash No.	Bore B		Outside Diameter D		Widths		E	C	K To Sharp Corner (Ref.)	M Mis-alignment Either Direction (Ref.)	Wt.		Radial Limit Load Rating	Thrust Limit Load Rating							
		+0.0000, -0.0010 +0.000, -0.025	+0.0000, -0.0010 +0.000, -0.025	+0.0000, -0.0005 +0.000, -0.13	+0.000, -0.0005 +0.00, -0.13	Approx.	+0.015, -0.000 +0.38, -0.00					Approx.	lbs.			kg						
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg	lbf.	N	lbf.	N					
KP16BS	-16	1.0000 ⁽¹⁾	25.400 ⁽¹⁾	1.9375	49.213	0.437	11.10	0.375	9.53	1.150	29.21	0.024	0.61	1.709	43.41	7°25'	0.18	0.082	8085	36000	1600	7100
KP21BS	-21	1.3130	33.350	2.2500	57.150	0.437	11.10	0.375	9.53	1.465	37.21	0.024	0.61	2.028	51.51	6°30'	0.20	0.091	9840	43800	2000	9000
KP23BS	-23	1.4380	36.525	2.3750	60.325	0.437	11.10	0.375	9.53	1.585	40.26	0.024	0.61	2.155	54.74	6°	0.22	0.100	10500	46700	2200	9800
KP25BS	-25	1.5630	39.700	2.5000	63.500	0.437	11.10	0.375	9.53	1.700	43.18	0.024	0.61	2.282	57.96	5°45'	0.25	0.113	11300	50300	2300	10200
KP29BS	-29	1.8130	46.050	2.7500	69.850	0.437	11.10	0.375	9.53	1.940	49.28	0.024	0.61	2.535	64.39	5°	0.27	0.122	12700	56500	2600	11600
KP33BS	-33	2.0630	52.400	3.0000	76.200	0.437	11.10	0.375	9.53	2.234	56.74	0.024	0.61	2.787	70.79	5°	0.30	0.136	14400	64000	2900	12900
KP37BS	-37	2.3130	58.750	3.2500	82.550	0.437	11.10	0.375	9.53	2.475	62.87	0.024	0.61	3.039	77.19	4°30'	0.33	0.150	15800	70300	3200	14300
KP47BS	-47	2.9380	74.625	4.1250	104.775	0.531	13.49	0.469	11.91	3.105	78.87	0.039	0.99	3.846	97.69	4°30'	0.64	0.290	24700	110000	5000	22300
*KP48BS	-48	3.0000	76.200	4.2500	107.950	0.531	13.49	0.469	11.91	3.230	82.04	0.039	0.99	3.972	100.89	4°	0.69	0.313	27500	122000	5500	24500
KP49BS	-49	3.0625	77.788	4.2500	107.950	0.531	13.49	0.469	11.91	3.230	82.04	0.039	0.99	3.972	100.89	4°	0.69	0.313	27500	122000	5500	24500

⁽¹⁾ +0.0000 in. (.000mm), -0.0005 in. (.013mm)

* Check for availability.