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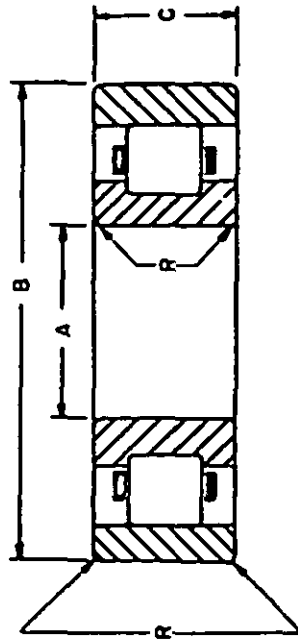
This military standard is approved by the Department of Defense and is mandatory on all activities. Subsection for all new engineering and design applications and for repetitive use shall be made from this document.

																				FED. SUP CLASS 3110	
INC. UNDER RADIIUS OR QUARTER ON BOTH SIDES OF THE BEARING MUST CLEAR THE SHAFT AND HOUSING FILLET RADIIUS LISTED IN THE TABLE BELOW																					
1/8" PART NO	FIN	A INSIDE DIA		S OUTSIDE DIA		C WIDTH		R SHAFT & HOUSING FILLET RADIUS	RECOMMENDED SHAFT		INTERNAL RADIUS CLEARANCE (.0001 INCH)	BASIC DYNAMIC LOAD RATING	BASIC STATIC LOAD RATING	RECOMMENDED LIMITING SPEED	EST COST						
		INCH	INCH	INCH	INCH	MIN	MAX														
MS19074 - 1	17	.6533	40	1.5748	.025	.84	1.44	18	2500	1400	3750	.19									
MS19074 - 2	17	.6533	47	1.8504	.040	1.00	1.67	16	2000	1500	7830	.32									
MS19074 - 3	20	.7874	52	2.0472	.040	1.02	1.82	16	3500	1900	6950	.37									
MS19074 - 4	25	.9843	52	2.0472	.040	1.22	1.86	16	3000	1600	6200	.35									
MS19074 - 5	25	.9843	62	2.4409	.040	1.25	2.20	16	5100	2900	6000	.34									
MS19074 - 6	30	1.1811	62	2.4409	.040	1.42	2.24	16	3750	2200	5500	.37									
MS19074 - 7	30	1.1811	72	2.8346	.040	1.50	2.55	19	6750	3750	4500	.32									
MS19074 - 8	35	1.3780	72	2.8346	.040	1.56	2.61	20	5000	3450	4700	.36									
MS19074 - 9	35	1.3780	90	3.1493	.050	1.73	2.93	20	8850	5350	4350	1.49									
MS19074 - 10	40	1.5748	90	3.1493	.040	1.87	2.69	20	7650	4650	4250	.33									
MS19074 - 11	40	1.5748	90	3.5433	.050	1.04	3.19	6	10300	6350	2750	1.74									
MS19074 - 12	45	1.7717	85	3.3465	.040	2.03	3.06	8	6050	5000	3350	1.15									
MS19074 - 13	45	1.7717	100	3.9370	.050	2.20	3.54	8	14200	9050	3450	3.31									
MS19074 - 14	50	1.9585	110	4.3307	.080	2.42	3.90	8	17000	11100	3150	3.61									
MS19074 - 15	55	2.1654	100	3.9370	.050	2.52	3.60	8	10300	6700	3250	1.71									
MS19074 - 16	55	2.1654	120	4.7244	.080	2.65	4.25	8	20700	13600	2850	3.71									
MS19074 - 17	60	2.3622	110	4.3307	.050	2.73	3.96	8	12600	8450	2750	2.23									
MS19074 - 18	50	2.3622	130	5.1181	.080	2.83	4.61	8	23300	15000	1600	4.02									
MS19074 - 19	65	2.5591	120	4.7244	.050	3.00	4.32	8	14000	10200	2700	2.23									
MS19074 - 20	65	2.5591	140	5.5118	.080	3.11	4.96	8	25000	17100	2400	3.92									
MS19074 - 21	70	2.7559	125	4.9213	.080	3.19	4.50	10	14000	10200	4550	3.62									
MS19074 - 22	70	2.7559	150	5.9035	.080	3.32	5.31	10	30100	20800	2250	7.47									
MS19074 - 23	75	2.9528	130	5.1181	.050	3.37	4.68	10	17000	12100	2400	3.32									
MS19074 - 24	75	2.9528	160	6.2922	.080	3.57	5.67	10	33300	25600	2100	8.55									
MS19074 - 25	80	3.1498	140	5.5118	.050	3.60	5.05	10	19600	13700	2250	3.82									
MS19074 - 26	80	3.1498	170	6.6929	.080	3.79	6.02	10	36500	25500	1950	10.47									
MS19074 - 27	85	3.3465	150	5.9035	.080	3.85	5.40	12	22400	15000	2100	5.00									
MS19074 - 28	85	3.3465	180	7.0568	.100	4.04	6.38	12	42000	30500	1850	12.28									
MS19074 - 29	90	3.5433	160	6.2922	.080	4.05	5.76	12	28000	20200	1950	5.96									
MS19074 - 30	90	3.5433	190	7.4803	.100	4.25	6.73	12	46500	33300	1750	14.21									
MS19074 - 31	95	3.7402	170	6.6929	.080	4.29	6.12	12	31400	22800	1850	7.18									
MS19074 - 32	95	3.7402	200	7.8740	.100	4.54	7.09	12	53200	39100	1650	16.94									
MS19074 - 33	100	3.9370	180	7.0568	.080	4.55	6.40	12	34800	25600	1750	8.62									

APPROVED 30 APR 1959

REVISED

P.A. 1000 Other Cast Or Steel	TITLE BEARINGS, ROLLER, CYLINDRICAL, SINGLE ROW, OF HEAVY THO ROLLER RETAINING RINGS ON IMPERIAL, CYLINDRICAL CUTTER RINGS, NON-LOCATING.	MILITARY STANDARD MS 19074
PROCUREMENT SPECIFICATION 11-1-195	SUPERSEDES:	SHEET 1 OF 3



THE FOLLOWING RADIIUS OR DIMETER OF SHAFT SIZES
OF THE BEARING MUST BE CLEAR THE SHAFT AND
HOUSING FILLET RADIIUS LISTED IN THE TABLE
BELOW

This military standard is approved by the Department of Defense and is mandatory for all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

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US PART NO		FIN	A INSIDE DIA		B OUTSIDE DIA		C WIDTH		R SHAFT & HOUSING FILLET RADIUS		RECOMMENDED SHAFT DIAMETER		INTERNAL RADIAL CLEARANCE -0001 INCH		BASIC DYNAMIC LOAD RATING	BASIC STATIC LOAD RATING	RECOMMENDED LIMITING SPEED	ERT WEIGHT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	LES	LES	RPM	LES
MS19074 - 35			100	3.9370	215	8.4946	47	1.8504	.100	.100	4.83	7.62	12	32	61500	45900	1250	19.50
MS19074 - 36			105	4.1339	190	7.4803	36	1.4173	.080	.080	4.77	6.84	14	35	30000	30000	1500	10.32
MS19074 - 37			105	4.1339	225	8.8583	49	1.9291	.100	.100	5.05	7.97	14	35	69700	52400	1450	22.95
MS19074 - 38			110	4.3307	200	7.8740	38	1.4961	.080	.080	5.01	7.20	14	35	45000	34000	1350	11.61
MS19074 - 39			120	4.7244	215	8.4946	40	1.5748	.080	.080	5.47	7.74	14	35	49500	37500	1450	14.70
MS19074 - 40			120	4.7244	260	10.2362	55	2.1654	.100	.100	5.82	9.21	14	35	93400	71100	1150	35.02
MS19074 - 41			130	5.1181	280	11.0236	58	2.2835	.120	.120	6.32	9.82	16	41	110000	80100	950	43.25
MS19074 - 42			150	5.7355	320	12.5384	65	2.5591	.120	.120	7.11	11.34	16	45	135000	106000	950	50.07

FED. SUP CLASS
3110

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REVISED

DD FORM 672-1

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

MILITARY STANDARD
MS 19074

SHEET 2 OF 3

TITLE
BEARINGS, ROLLER, CYLINDRICAL, SINGLE ROW OF ROLLERS,
TWO ROLLER RETAINING RINGS ON OUTER RING, CYLINDRICAL
OUTER RING, NON-LOCATING.

PROCUREMENT SPECIFICATION
FF-3-105

SUPERSEDES:

