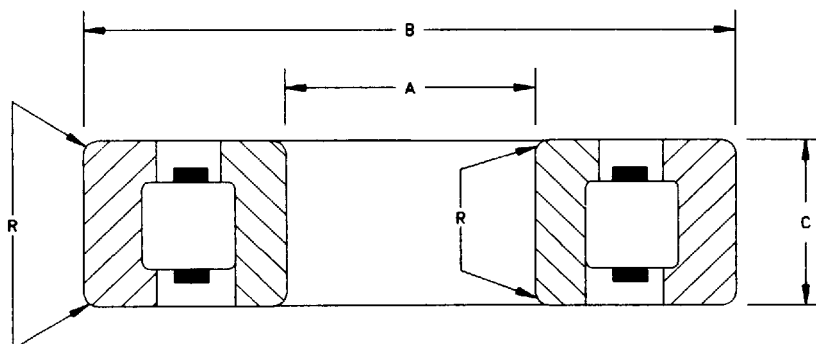


COMMERCIAL ITEM DESCRIPTION

BEARINGS, ROLLER, CYLINDRICAL, SINGLE ROW
OF ROLLERS, ONE ROLLER RETAINING RIBS ON
INNER RING, TWO ROLLER RETAINING RIBS ON
OUTER RING, ONE DIRECTION LOCATING

THE GENERAL SERVICES ADMINISTRATION HAS AUTHORIZED THIS COMMERCIAL ITEM DESCRIPTION
FOR ALL FEDERAL AGENCIES

1. **SCOPE:** THIS COMMERCIAL ITEM DESCRIPTION (CID) DEPICTS THE REQUIREMENTS FOR CYLINDRICAL ROLLER BEARINGS, SINGLE ROW OF ROLLERS, ONE ROLLER RETAINING RIBS ON INNER RING, TWO ROLLER RETAINING RIBS ON OUTER RING, ONE DIRECTION LOCATING.
2. **SALIENT CHARACTERISTICS.**
 - 2.1 **MATERIAL:**
 - A. RINGS AND ROLLERS SHALL BE MADE OF CHROMIUM-ALLOY STEEL 52100 (UNS G52986) CONFORMING TO AMS 6440.
 - B. HARDNESS OF RINGS AND ROLLERS: 58 TO 66 RC.
 - C. CAGE MATERIAL SHALL BE SPECIFIED IN THE PART NUMBER AS FOLLOWS:
 - A= MANUFACTURER'S STANDARD
 - B= BRASS
 - M= MACHINED BRASS
 - N= NON-METALLIC
 - J= STEEL
 - 2.2 **TOLERANCE:**
 - A. RBEC-1, IN ACCORDANCE WITH ANSI/ABMA STANDARD 20.
 - B. RADIAL INTERNAL CLEARANCE SHALL BE IN ACCORDANCE WITH ANSI/ABMA STANDARD 20 AND SHALL BE SPECIFIED IN THE PART NUMBER AS FOLLOWS:
 - C2= SYMBOL 2
 - C0= SYMBOL 0 (NORMAL)
 - C3= SYMBOL 3
 - C4= SYMBOL 4
 - 2.3 **BASIC LOAD RATINGS** SHALL BE CALCULATED USING THE METHOD SPECIFIED IN ANSI/ABMA STANDARD 11.



BENEFICIAL COMMENTS, RECOMMENDATIONS, ADDITIONS, DELETIONS, CLARIFICATIONS, ETC., AND DATA WHICH MAY IMPROVE THIS DOCUMENT SHOULD BE SENT TO: DEFENSE INDUSTRIAL SUPPLY CENTER. ATTN: DISC-ECA, 700 ROBBINS AVENUE, PHILADELPHIA, PA 19111-5096.

A-A-55599A

TABLE I. DASH NUMBERS AND DIMENSIONS

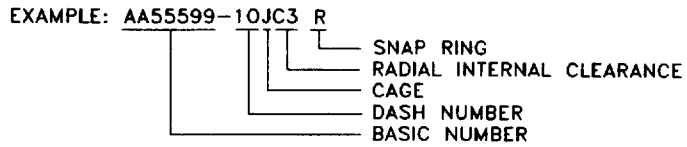
DASH NUMBER	A BORE	B OUTSIDE DIA	C WIDTH	R SHAFT HOUSING FILLET RADIUS	RECOMMENDED SHOULDER DIA		LOAD RATING Lbf		INTERCHANGEABLE SPECIFICATION
					SHAFT	HOUSING	DYNAMIC	STATIC	
					MAX	MIN			
01	17	40	12	.025	0.84	1.44	2500	1400	MS19078-1
02	17	47	14	.040	0.90	1.67	2900	1500	MS19078-2
03	20	52	15	.040	1.02	1.82	3500	1900	MS19078-3
04	25	52	15	.040	1.22	1.86	3000	1600	MS19078-4
05	25	62	17	.040	1.25	2.20	5100	2900	MS19078-5
06	30	62	16	.040	1.42	2.24	3950	2200	MS19078-6
07	30	72	19	.040	1.50	2.55	6750	3950	MS19078-7
08	35	72	17	.040	1.66	2.61	5900	3450	MS19078-8
09	35	80	21	.060	1.73	2.83	8850	5350	MS19078-9
10	40	80	18	.040	1.87	2.88	7650	4650	MS19078-10
11	45	90	23	.060	1.94	3.19	10300	6360	MS19078-11
12	45	85	19	.040	2.08	3.06	8050	5000	MS19078-12
13	45	100	25	.060	2.20	3.54	14200	9050	MS19078-13
14	50	110	27	.080	2.42	3.90	17000	11100	MS19078-14
15	55	100	21	.060	2.52	3.60	10300	6700	MS19078-15
16	55	120	29	.080	2.65	4.25	20700	13600	MS19078-16
17	60	110	22	.060	2.73	3.06	12600	8450	MS19078-17
18	60	130	31	.080	2.88	4.61	23200	15500	MS19078-18
19	65	120	23	.060	3.00	4.32	14900	10200	MS19078-19
20	65	140	33	.080	3.11	4.96	25600	17100	MS19078-20
21	70	125	24	.060	3.19	4.50	14800	10200	MS19078-21
22	70	150	35	.080	3.32	5.31	30100	20800	MS19078-22
23	75	130	25	.060	3.37	4.68	17000	12100	MS19078-23
24	75	160	37	.080	3.57	5.67	33300	25600	MS19078-24
25	80	140	26	.080	3.60	5.05	19600	13700	MS19078-25
26	80	170	39	.080	3.79	6.02	36500	25600	MS19078-26
27	85	150	28	.080	3.85	5.40	22400	15900	MS19078-27
28	85	180	41	.100	4.04	6.38	42900	30500	MS19078-28
29	90	160	30	.080	4.05	5.76	28000	20200	MS19078-29
30	90	190	43	.100	4.25	6.73	46500	33300	MS19078-30
31	95	170	32	.080	4.29	6.12	31400	22800	MS19078-31
32	95	200	45	.100	4.54	7.09	53200	39100	MS19078-32
33	100	180	34	.080	4.56	6.48	34800	25600	MS19078-33
34	100	215	47	.100	4.83	7.62	61500	45900	MS19078-34
35	105	190	36	.080	4.77	6.84	38000	30000	MS19078-35
36	105	225	49	.100	5.05	7.97	69700	52400	MS19078-36
37	110	200	38	.080	5.01	7.20	45000	34000	MS19078-37
38	110	240	50	.100	5.37	8.50	79100	60300	MS19078-38
39	120	215	40	.080	5.47	7.74	45900	37500	MS19078-39
40	120	260	55	.100	5.82	9.21	93400	71100	MS19078-40
41	130	280	58	.120	6.32	9.92	110000	90100	MS19078-41
42	150	320	65	.120	7.11	11.34	133000	106000	MS19078-42

3. QUALITY CONFORMANCE PROVISIONS:

- 3.1. THE SUPPLIERS SHALL BE RESPONSIBLE FOR THOSE IN PROCESS CONTROLS AND INSPECTIONS NECESSARY TO SUPPLY A PRODUCT CONSISTENTLY CONFORMING TO THE REQUIREMENTS OF THIS DOCUMENT.
- 3.2. UPON REQUEST, THE SUPPLIER WILL CERTIFY WITH DOCUMENTED TEST/INSPECTION EVIDENCE, THAT THE PART SUPPLIED MEET THE REQUIREMENTS OF THIS DOCUMENT.

4. NOTES:

- 4.1 UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS.
- 4.2 SNAP RINGS ARE OPTIONAL AND SHALL BE INDICATED BY ADDING AN R DESIGNATOR TO THE PART NUMBER.
- 4.3 THE PART IDENTIFICATION NUMBER(PIN) SHALL CONSIST OF THE BASIC COMMERCIAL ITEM DESCRIPTION NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I AND DESIGNATORS FOR CAGE AND RADIAL INTERNAL CLEARANCE.



MILITARY INTERESTS:

CUSTODIANS

ARMY-AT
NAVY-OS

REVIEWER ACTIVITIES

MARINE CORPS-MC, NAVY-SH

PREPARING ACTIVITY:

DLA-IS

PROJECT NUMBER: 3110-1004