

FED. SUPPLY CLASS

3120

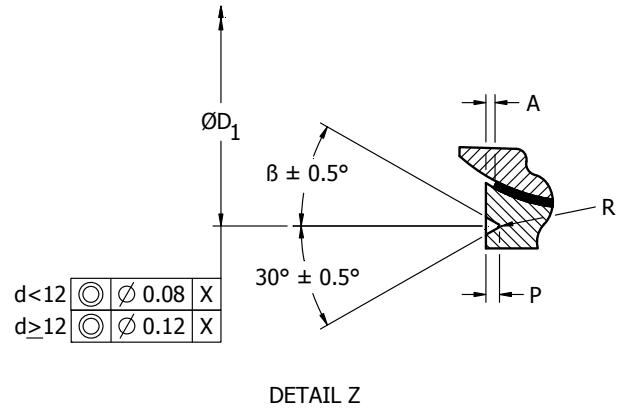
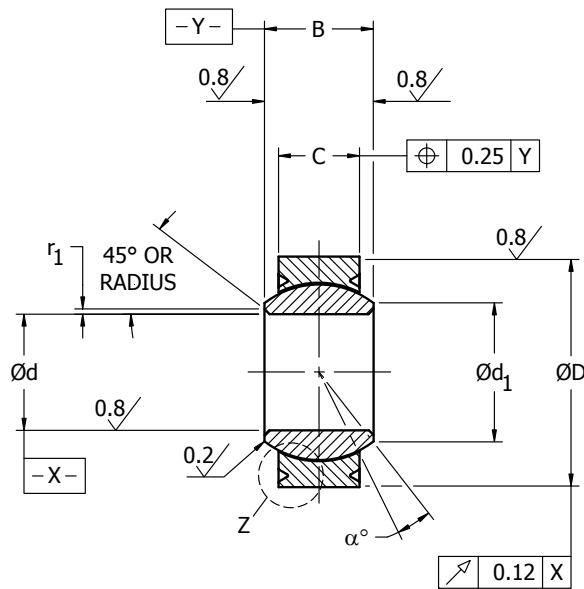


TABLE I – DASH NUMBERS AND DIMENSIONS /1/ /7/

DIAMETER CODE	Ød	ØD	C +100 -100	B +0 -60	Ød _{1min}	r _{1s} +300 -0	A max	ØD ₁ +100 -0	P +0 -200	R +100 -0	(BALL DIA)	α min.	β	MASS g
05	5	14	5,5	7	8,6	0,1	0,80	12,2	0,7	0,2	11,1	9	20	7
06	6	16	6,5	9	9,0	0,1	0,80	14,2	0,7	0,2	12,8	14	20	9
08	8	18	7	10	10,2	0,1	0,80	16,2	0,7	0,2	14,3	15	20	12
10	10	21	8	10,5	11,9	0,1	0,90	18,4	0,9	0,3	15,9	11	30	20
12	12	25	10	13	15,0	0,1	0,90	22,4	0,9	0,3	19,8	10	30	32
15	15	29	12	15	20,5	0,1	1,00	26,4	0,9	0,3	25,4	8	30	50
17	17	31	13,5	16	21,7	0,1	1,00	28,4	0,9	0,3	27,0	7	30	59
22	22	40	18	22	27,1	0,1	1,20	36,8	1,4	0,3	34,9	8	30	126
25	25	45	20	25	29,6	0,1	1,20	41,8	1,4	0,3	38,8	8	30	185
30	30	51	24	28	35,5	0,1	1,20	47,8	1,4	0,3	45,2	6	30	300
35	35	57	26	31	41,7	0,1	1,50	53,8	1,4	0,3	52,0	7	30	340
40	40	64	29	34	47,0	0,1	1,50	60,8	1,4	0,3	56,0	6	30	460
45	45	72	32	37	52,2	0,1	1,50	68,8	1,4	0,3	64,0	5	30	630
50	50	80	34	41	59,2	0,1	1,50	76,8	1,4	0,3	72,0	7	30	870

THIRD
ANGLE
PROJECTION

CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
3

PROCUREMENT
SPECIFICATION

NA0251

TITLE
**BEARING, PLAIN, SELF LUBRICATING,
SELF-ALIGNING LOW SPEED, NARROW,
GROOVED OUTER RING, -54 °C TO 163 °C, METRIC**

CLASSIFICATION
PART STANDARD

NA0247
SHEET 1 OF 3
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MATERIAL:

BALL, CRES CONFORMING TO THE CHEMICAL COMPOSITION OF UNS S44004, IN ACCORDANCE WITH AMS5630 (440C). RACE, STAINLESS STEEL CONFORMING TO THE CHEMICAL COMPOSITION OF UNS S17400 IN ACCORDANCE WITH AMS5643 (17-4 PH). LINER, SELF LUBRICATING, LOW FRICTION, WEAR RESISTANT LINER PER PROCUREMENT SPECIFICATION.

HARDNESS:

BALL, 55-62 HRC
RACE, 28-37 HRC

FINISH:

BALL, PASSIVATE PER ISO 8075 IN ACCORDANCE WITH AMS2700, METHOD 1, CLASS 4.
RACE, OPTIONAL

CODE:

CONSISTS OF BASIC NA NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I.

EXAMPLE OF PART NUMBER:

③ NA0247-12 = A NARROW SERIES GROOVED RACE BEARING WITH A NOMINAL BORE DIAMETER OF 12,0 MILLIMETERS.

NOTES:

- /1/ DIMENSIONS IN MILLIMETERS AND APPLY AFTER FINISH, TOLERANCE VALUES IN MICROMETERS, MASS IN GRAMS, ANGLES IN DEGREES AND CAPACITIES IN KILONEWTONS UNLESS OTHERWISE SPECIFIED.
- (2) REMOVE ALL BURRS AND SHARP EDGES.
- (3) WHEN TESTED TO THE FLUID CONTAMINATION AND SUB ZERO TEMPERATURE REQUIREMENTS OF THE PROCUREMENT SPECIFICATION, THE OSCILLATING LOAD SHALL BE DECREASED TO 75% OF THE SPECIFIED LOAD.
- ③ (4) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (6) ALL PARTS SHALL BE MARKED PER MIL-STD-130. ALL INTERIOR PACKAGES SHALL ALSO BE MARKED PER MIL-STD-129.
- /7/ THE TOLERANCE LIMITS FOR THE FOLLOWING DIMENSIONS ARE PROVIDED IN THIS TABLE: ΔC_s , ΔB_s , r_{1smin} , r_{1smax} . TOLERANCES WHICH VARY WITH BEARING SIZE ARE PROVIDED IN TABLE II.
- (8) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (9) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (10) SURFACE TEXTURE SHALL BE IN ACCORDANCE WITH ASME B46.1 AND SURFACE TEXTURE SYMBOLS SHALL BE IN ACCORDANCE WITH ASME Y14.36M.

REVISION

3

Documents
SHEET 2



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