

FED. SUPPLY CLASS

3120

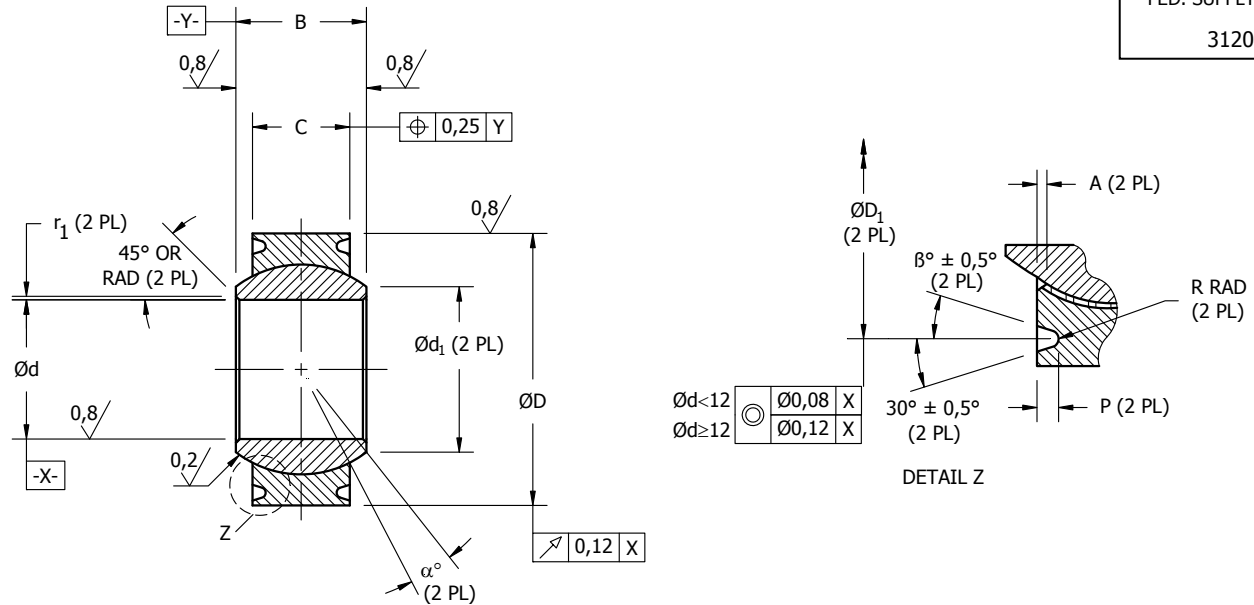


TABLE I – DASH NUMBERS AND DIMENSIONS /7/

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 RAD +100 -0	BALL DIA (REF)	α° MIN	β°	MASS
05	5	16	8,5	11	7,7	0,1	0,80	14,2	0,7	0,2	13,5	15	20	16
06	6	16	8,5	11	7,7	0,1	0,80	14,2	0,7	0,2	13,5	15	20	16
08	8	18	8	11	10,3	0,1	0,80	16,2	0,7	0,2	15,1	14	30	17
10	10	21	10	12,5	12,2	0,1	0,90	18,4	0,9	0,3	17,5	10	30	27
12	12	26	13	16	15,5	0,1	0,90	23,4	0,9	0,3	22,3	10	30	49
15	15	29	13,5	17	18,9	0,1	1,00	26,4	0,9	0,3	25,5	9	30	62
17	17	30	14,5	18	20,1	0,1	1,00	27,4	0,9	0,3	27,5	9	30	69
20	20	35	16	20	23,5	0,1	1,20	31,8	1,4	0,3	31,8	8	30	104
25	25	54	26	32	35,3	0,1	1,20	50,8	1,4	0,3	47,7	9	30	445
30	30	60	28	34	40,9	0,1	1,20	56,8	1,4	0,3	53,2	8	30	480
35	35	65	29	36	45,5	0,1	1,50	61,8	1,4	0,3	58,1	8	30	565
40	40	68	31	38	47,0	0,1	1,50	64,8	1,4	0,3	60,5	8	30	600
45	45	76	33	41	54,1	0,1	1,50	72,8	1,4	0,3	67,9	8	30	800
50	50	82	35	44	60,3	0,1	1,50	78,8	1,4	0,3	74,7	8	30	970
55	55	96	40	52	63,4	0,1	1,50	92,8	1,5	0,3	82,0	10	30	1580

MATERIAL:

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

① COMPLETELY REVISED

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NA0251	TITLE BEARING, PLAIN, SELF LUBRICATING, SELF-ALIGNING LOW SPEED, WIDE, GROOVED OUTER RING, -54 °C TO 163 °C, METRIC	CLASSIFICATION PART STANDARD

Documents
SHEET 1 OF 3

HEAT TREATMENT:

BALL – 55-62 HRC
RACE – 28-37 HRC

FINISH:

BALL – PASSIVATE PER ISO 8075 IN ACCORDANCE WITH MIL-DTL-5002.
RACE – OPTIONAL.

CODE:

THE PART NUMBER CONSISTS OF THE BASIC PART NUMBER, FOLLOWED BY A DASH NUMBER FROM TABLE I.

EXAMPLE OF PART NUMBER:

NA0249-12 = A WIDE SERIES GROOVED RACE BEARING WITH A NOMINAL BORE DIAMETER OF 12,0 MILLIMETERS.

NOTES:

- (1) DIMENSIONS IN MILLIMETERS AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED. TOLERANCE VALUES ARE IN MICROMETERS, MASS IS IN GRAMS, ANGLES ARE IN DEGREES AND CAPACITIES ARE IN KILONEWTONS.
- (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.
- (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", "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.

① COMPLETELY REVISED

REVISION
1
NA0249
SHEET 2



Documents

Document Sharing Hub