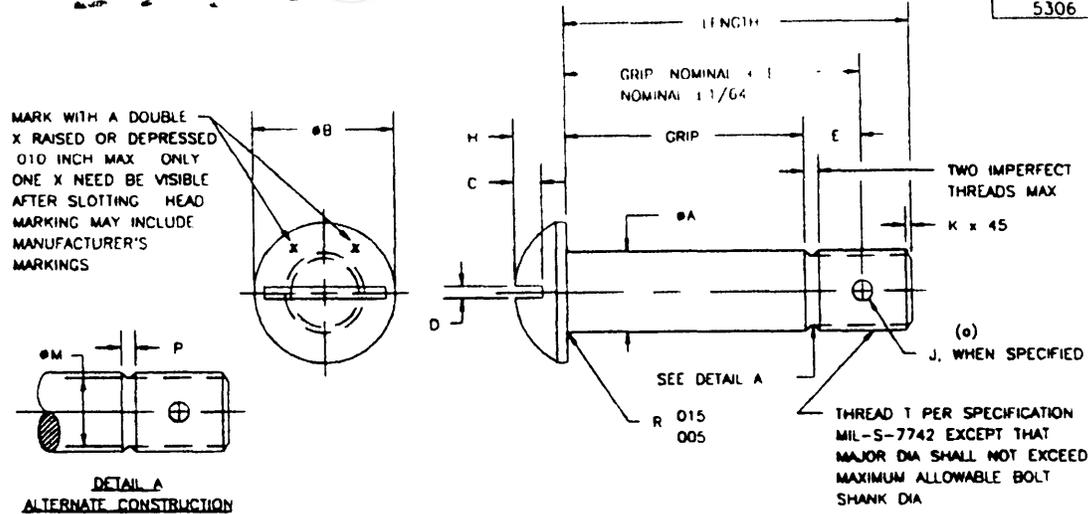


FED SUP CLASS
 5306



11

BASIC AN PART NO	THREAD T	ØA + .000 - .002	ØB	C	D	E REF	H	ØJ DRILL + .010 - .000	K + .016	ØM + .005	P	RATED STRENGTH, POUNDS	
												(a) SINGLE SHEAR AT FULL DIA	(b) TENSILE
AN21	NO 6-40UNF-3A	.136	5/16	3/64	1/32	5/32	5/64	.038	.031	.100	1/32	1,060	510
AN22	NO 8-36UNF-3A	.162	3/8	1/16	3/64	5/32	3/32	.070	.031	.120	1/32	1,500	760
AN23	NO 10-32UNF-3A	.186	3/8	1/16	3/64	3/16	3/32	.070	.031	.141	3/64	2,125	1,105
AN24	1/4-28UNF-3A	.248	1/2	3/32	1/16	3/16	1/8	.076	.031	.196	3/64	3,680	2,040
AN25	5/16-24UNF-3A	.311	5/8	7/64	5/64	3/16	5/32	.076	.047	.250	1/16	5,750	3,250
AN26	3/8-24UNF-3A	.373	11/16	9/64	3/32	7/32	3/16	.106	.047	.313	1/16	8,280	5,050
AN27	7/16-20UNF-3A	.436	13/16	5/32	3/32	7/32	7/32	.106	.047	.360	1/16	11,250	6,800
AN28	1/2-20UNF-3A	.497	7/8	11/64	7/64	1/4	1/4	.106	.047	.422	1/16	14,700	9,250
AN29	9/16-18UNF-3A	.560	1	3/16	7/64	5/16	9/32	.141	.062	.482	5/64	18,700	11,800
AN30	5/8-18UNF-3A	.622	1-1/8	3/16	1/8	5/16	5/16	.141	.062	.545	5/64	23,000	15,050
AN32	3/4-16UNF-3A	.747	1-5/16	13/64	9/64	3/8	3/8	.141	.062	.660	3/32	33,150	22,000
AN34	7/8-14UNF-3A	.871	1-1/2	7/32	5/32	7/16	7/16	.141	.078	.773	3/32	45,050	30,000
(d) AN36	1-14NF-3A	.996	1-3/4	15/64	11/64	1/2	1/2	.141	.078	.898	3/32	56,900	40,350
AN37	1-12UNF-3A	.996	1-3/4	15/64	11/64	1/2	1/2	.141	.078	.898	3/32	58,900	40,350

- (a) COTTER PIN HOLE CENTERLINE SHALL BE WITHIN .010 INCH OF BOLT CENTER LINE FOR 5/16 DIAMETER BOLTS AND SMALLER, AND WITHIN 0.15 INCH FOR 3/8 DIAMETER BOLTS AND LARGER COTTER PIN HOLE TO BE NORMAL TO BOLT CENTERLINE WITHIN 2°
- (b) RATED TENSILE STRENGTHS APPLICABLE ONLY WHEN SHEAR NUT AN320 OR THIN NUT AN364 IS USED
- (c) GRIP LENGTH OF BOLTS SHALL BE MEASURED FROM THE UNDERSIDE OF THE HEAD TO THE END OF THE FULL CYLINDRICAL PORTION OF THE SHANK
- (d) 1-4 NF-3 THREAD PITCH INACTIVE FOR DESIGN AFTER 15 JUNE 1966

REQUIREMENTS

11

- MATERIAL NON-CORROSION RESISTING STEEL, 4130 (UNS G41300) PER MIL-S-6758 OR 8740 (UNS G87400) PER MIL-S-6049
- FINISH CADMIUM PLATE, SPECIFICATION QQ-P-416 TYPE II, CLASS 2
- ADD A AFTER DASH NUMBER FOR BOLT WITHOUT COTTER PIN HOLE
- EXAMPLES OF PART NUMBERS AN21-14 = NO 6 BOLT, 29/32 INCH LONG, WITH COTTER PIN HOLE
 AN21-14A = NO 6 BOLT, 29/32 INCH LONG, WITHOUT COTTER PIN HOLE
- POSITION OF SLOT IN HEAD RELATIVE TO COTTER PIN HOLE OPTIONAL

NOTES

- DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED, TOLERANCES DECIMALS ± 0.10 FRACTIONS ± 1/64 ANGLES ± 5°
- BOLTS SHALL BE FREE FROM ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE COUNTERSINKING OF DRILLED HOLES IS OPTIONAL
- LENGTHS LONGER THAN THOSE TABULATED ON SHEETS 2 AND 3 ARE AVAILABLE IN 1/8 INCH INCREMENTS BY USE OF SIGNIFICANT DASH NUMBERS
- IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND THE REFERENCES CITED HEREIN THE TEXT OF THIS DOCUMENT SHALL TAKE PRECEDENCE
- UNLESS OTHERWISE SPECIFIED ISSUES OF REFERENCED DOCUMENTS ARE THOSE IN EFFECT AT THE TIME OF SOLICITATION

11 DENOTES CHANGE(S)

REVIEWER SYMBOLS
 NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a specific title, Government procurement operation, the United States Government assumes no responsibility for any obligation whatsoever, and the fact that the Government may have furnished, furnished, or in any way supplied the said drawings, specifications or other data is not to be regarded as an implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.
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 SPECIFICATIONS OF THE AIR FORCE-NAVY STANDARD FOR THIS PRODUCT. THIS DRAWING
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 THE DESIGN IS NOT SHOWN AFTER THE LATEST DATE OF APPROVAL SHOWN
 23 SEPTEMBER 1966
 11

APPROX: 16 NOV 42 REVISED 4 23 DEC 52 5 15 JUN 66 6 29 MAY 69 7 25 MAY 83 8 8 APR 95 9 20 JUL 95 10 10 NOV 95 11 22 MAR 96

DA P A S AIR FORCE NAVY AERONAUTICAL STANDARDS

Other Cust: ARMY AV AIR FORCE 95

FORMER ANA STANDARD AND AIR FORCE AND NAVY STANDARD ISSUES OF AN21 THRU AN37

AN21 THRU AN37

FID SUP CLASS
 5306

REVIEWER SYMBOLS

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 NOTE: This drawing was approved by joint action of the Air Force and Navy
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 be effective for the procurement of aeronautical supplies or for use in
 the design of aircraft, from 8 months after the latest date of approval shown
 AM 5 N/S

DASH NO	AN21		AN22		AN23		AN24		AN25		AN26		AN27	
	GRIP	LENGTH												
5	1/16	11/32	1/16	11/32										
6	1/8	13/32	1/8	13/32										
7	3/16	15/32	3/16	15/32										
8	1/4	17/32	1/4	17/32	3/16	17/32	3/16	17/32						
9	5/16	19/32	5/16	19/32	1/4	19/32	1/4	19/32	1/4	39/64	1/4	39/64		
10	3/8	21/32	3/8	21/32	5/16	21/32	5/16	21/32	5/16	43/64	5/16	43/64		
11	7/16	23/32	7/16	23/32	3/8	23/32	3/8	23/32	3/8	47/64	3/8	47/64		
12	1/2	25/32	1/2	25/32	7/16	25/32	7/16	25/32	7/16	51/64	7/16	51/64	3/8	51/64
13	9/16	27/32	9/16	27/32	1/2	27/32	1/2	27/32	1/2	55/64	1/2	55/64	7/16	55/64
14	5/8	29/32	5/8	29/32	9/16	29/32	9/16	29/32	9/16	59/64	9/16	59/64	5/8	59/64
15	11/16	31/32	11/16	31/32	5/8	31/32	5/8	31/32	5/8	63/64	5/8	63/64	9/16	63/64
16	3/4	1- 1/32	3/4	1- 1/32	11/16	1- 1/32	11/16	1- 1/32	11/16	1- 3/64	11/16	1- 3/64	5/8	1- 3/64
17	13/16	1- 3/32	13/16	1- 3/32	3/4	1- 3/32	3/4	1- 3/32	3/4	1- 7/64	3/4	1- 7/64	11/16	1- 7/64
18	7/8	1- 5/32	7/8	1- 5/32	13/16	1- 5/32	13/16	1- 5/32	13/16	1-11/64	13/16	1-11/64	3/4	1-11/64
19	15/16	1- 7/32	15/16	1- 7/32	7/8	1- 7/32	7/8	1- 7/32	7/8	1-15/64	7/8	1-15/64	13/16	1-15/64
20	1	1- 9/32	1	1- 9/32	15/16	1- 9/32	15/16	1- 9/32	15/16	1-19/64	15/16	1-19/64	7/8	1-19/64
21	1- 1/16	1-11/32	1- 1/16	1-11/32	1	1-11/32	1	1-11/32	1	1-23/64	1	1-23/64	15/16	1-23/64
22	1- 1/8	1-13/32	1- 1/8	1-13/32	1- 1/16	1-13/32	1- 1/16	1-13/32	1- 1/16	1-27/64	1- 1/16	1-27/64	1	1-27/64
23	1- 3/16	1-15/32	1- 3/16	1-15/32	1- 1/8	1-15/32	1- 1/8	1-15/32	1- 1/8	1-31/64	1- 1/8	1-31/64	1- 1/16	1-31/64
24	1- 1/4	1-17/32	1- 1/4	1-17/32	1- 3/16	1-17/32	1- 3/16	1-17/32	1- 3/16	1-35/64	1- 3/16	1-35/64	1- 3/16	1-35/64
25	1- 5/16	1-19/32	1- 5/16	1-19/32	1- 1/4	1-19/32	1- 1/4	1-19/32	1- 1/4	1-39/64	1- 1/4	1-39/64	1- 3/16	1-39/64
26	1- 3/8	1-21/32	1- 3/8	1-21/32	1- 5/16	1-21/32	1- 5/16	1-21/32	1- 5/16	1-43/64	1- 5/16	1-43/64	1- 1/4	1-43/64
27	1- 7/16	1-23/32	1- 7/16	1-23/32	1- 3/8	1-23/32	1- 3/8	1-23/32	1- 3/8	1-47/64	1- 3/8	1-47/64	1- 5/16	1-47/64
28	1- 1/2	1-25/32	1- 1/2	1-25/32	1- 7/16	1-25/32	1- 7/16	1-25/32	1- 7/16	1-51/64	1- 7/16	1-51/64	1- 3/8	1-51/64
29	1- 9/16	1-27/32	1- 9/16	1-27/32	1- 1/2	1-27/32	1- 1/2	1-27/32	1- 1/2	1-55/64	1- 1/2	1-55/64	1- 7/16	1-55/64
30	1- 5/8	1-29/32	1- 5/8	1-29/32	1- 9/16	1-29/32	1- 9/16	1-29/32	1- 9/16	1-59/64	1- 9/16	1-59/64	1- 1/2	1-59/64
31	1-11/16	1-31/32	1-11/16	1-31/32	1- 5/8	1-31/32	1- 5/8	1-31/32	1- 5/8	1-63/64	1- 5/8	1-63/64	1- 9/16	1-63/64
32	1- 3/4	2- 1/32	1- 3/4	2- 1/32	1-11/16	2- 1/32	1-11/16	2- 1/32	1-11/16	2- 3/64	1-11/16	2- 3/64	1- 5/8	2- 3/64
34					1-13/16	2- 5/32	1-13/16	2- 5/32	1-13/16	2-11/64	1-13/16	2-11/64	1- 3/4	2-11/64
36					1-15/16	2- 9/32	1-15/16	2- 9/32	1-15/16	2-19/64	1-15/16	2-19/64	1- 7/8	2-19/64
38					2- 1/16	2-13/32	2- 1/16	2-13/32	2- 1/16	2-27/64	2- 1/16	2-27/64	2	2-27/64
40					2- 3/16	2-17/32	2- 3/16	2-17/32	2- 3/16	2-35/64	2- 3/16	2-35/64	2- 1/8	2-35/64
42					2- 5/16	2-21/32	2- 5/16	2-21/32	2- 5/16	2-43/64	2- 5/16	2-43/64	2- 1/4	2-43/64
44					2- 7/16	2-25/32	2- 7/16	2-25/32	2- 7/16	2-51/64	2- 7/16	2-51/64	2- 3/8	2-51/64
46					2- 9/16	2-29/32	2- 9/16	2-29/32	2- 9/16	2-59/64	2- 9/16	2-59/64	2- 1/2	2-59/64
48					2-11/16	3- 1/32	2-11/16	3- 1/32	2-11/16	3- 3/64	2-11/16	3- 3/64	2- 5/8	3- 3/64
50					2-13/16	3- 5/32	2-13/16	3- 5/32	2-13/16	3-11/64	2-13/16	3-11/64	2- 3/4	3-11/64
52					2-15/16	3- 9/32	2-15/16	3- 9/32	2-15/16	3-19/64	2-15/16	3-19/64	2- 7/8	3-19/64
54					3- 1/16	3-13/32	3- 1/16	3-13/32	3- 1/16	3-27/64	3- 1/16	3-27/64	3	3-27/64
56					3- 3/16	3-17/32	3- 3/16	3-17/32	3- 3/16	3-35/64	3- 3/16	3-35/64	3- 1/8	3-35/64
58					3- 5/16	3-21/32	3- 5/16	3-21/32	3- 5/16	3-43/64	3- 5/16	3-43/64	3- 1/4	3-43/64
60					3- 7/16	3-25/32	3- 7/16	3-25/32	3- 7/16	3-51/64	3- 7/16	3-51/64	3- 3/8	3-51/64
62					3- 9/16	3-29/32	3- 9/16	3-29/32	3- 9/16	3-59/64	3- 9/16	3-59/64	3- 1/2	3-59/64
64					3-11/16	4- 1/32	3-11/16	4- 1/32	3-11/16	4- 3/64	3-11/16	4- 3/64	3- 5/8	4- 3/64
66					3-13/16	4- 5/32	3-13/16	4- 5/32					3- 3/4	4-11/64
68					3-15/16	4- 9/32	3-15/16	4- 9/32					3- 7/8	4-19/64
70					4- 1/16	4-13/32	4- 1/16	4-13/32					4	4-27/64
72					4- 3/16	4-17/32	4- 3/16	4-17/32					4- 1/8	4-35/64
74					4- 5/16	4-21/32	4- 5/16	4-21/32					4- 1/4	4-43/64
76					4- 7/16	4-25/32	4- 7/16	4-25/32					4- 3/8	4-51/64
78					4- 9/16	4-29/32	4- 9/16	4-29/32					4- 1/2	4-59/64
80					4-11/16	5- 1/32	4-11/16	5- 1/32					4- 5/8	5- 3/64
82					4-13/16	5- 5/32	4-13/16	5- 5/32					4- 3/4	5-11/64
84					4-15/16	5- 9/32	4-15/16	5- 9/32					4- 7/8	5-19/64
86													5	5-27/64
88													5- 1/8	5-35/64
90													5- 1/4	5-43/64
92													5- 3/8	5-51/64

APPROVED 16 NOV 42 REVISED 4 23 DEC 52 5 15 JUN 66 6 29 MAY 69 7 25 MAY 83 8 APR 95 9 20 JUL 95 10 10 NOV 95 11 22 MAR 96

Other Cust: AIR FORCE 99

STANDARD ISSUES OF AN21 THRU AN37

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PROJ. NO. 5306 19 50

FFD SUP CLASS
 5306

(11)

DASH NO	AN28		AN29		AN30		AN32		AN34		AN36		AN37		
	GRIP	LENGTH	GRIP	LENGTH	GRIP	LENGTH	GRIP	LENGTH	GRIP	LENGTH	GRIP	LENGTH	GRIP	LENGTH	
12	3/8	51/64													
13	7/16	55/64													
14	1/2	59/64	7/16	15/16	7/16	15/16									
15	9/16	63/64	1/2	1	1/2	1									
16	5/8	1-3/64	9/16	1-1/16	9/16	1-1/16	1/2	1-1/16							
17	11/16	1-7/64	5/8	1-1/8	5/8	1-1/8	9/16	1-1/8							
18	3/4	1-11/64	11/16	1-3/16	11/16	1-3/16	5/8	1-3/16	9/16	1-13/64					
19	13/16	1-15/64	3/4	1-1/4	3/4	1-1/4	11/16	1-1/4	5/8	1-17/64					
20	7/8	1-19/64	13/16	1-5/16	13/16	1-5/16	3/4	1-5/16	11/16	1-21/64	5/8	1-21/64	5/8	1-21/64	
21	15/16	1-23/64	7/8	1-3/8	7/8	1-3/8	13/16	1-3/8	3/4	1-25/64	11/16	1-25/64	11/16	1-25/64	
22	1	1-27/64	15/16	1-7/16	15/16	1-7/16	7/8	1-7/16	13/16	1-29/64	3/4	1-29/64	3/4	1-29/64	
23	1-1/16	1-31/64	1	1-1/2	1	1-1/2	15/16	1-1/2	7/8	1-33/64	13/16	1-33/64	13/16	1-33/64	
24	1-1/8	1-35/64	1-1/16	1-9/16	1-1/8	1-9/16	1-1/16	1-9/16	1	15/16	1-37/64	7/8	1-37/64	7/8	1-37/64
25	1-3/16	1-39/64	1-1/8	1-5/8	1-1/8	1-5/8	1-1/16	1-5/8	1	15/16	1-41/64	15/16	1-41/64	15/16	1-41/64
26	1-1/4	1-43/64	1-3/16	1-11/16	1-1/4	1-11/16	1-1/8	1-11/16	1-1/16	1-45/64	1	1-45/64	1	1-45/64	
27	1-5/16	1-47/64	1-1/4	1-3/4	1-1/4	1-3/4	1-3/16	1-3/4	1-1/8	1-49/64	1-1/16	1-49/64	1-1/16	1-49/64	
28	1-3/8	1-51/64	1-5/16	1-13/16	1-3/8	1-13/16	1-1/4	1-13/16	1-3/16	1-53/64	1-1/8	1-53/64	1-1/8	1-53/64	
29	1-7/16	1-55/64	1-3/8	1-7/8	1-3/8	1-7/8	1-5/16	1-7/8	1-1/4	1-57/64	1-3/16	1-57/64	1-3/16	1-57/64	
30	1-1/2	1-59/64	1-7/16	1-15/16	1-1/2	1-15/16	1-3/8	1-15/16	1-5/16	1-61/64	1-1/4	1-61/64	1-1/4	1-61/64	
31	9/16	1-63/64	1-1/2	2	1-1/2	2	1-7/16	2	1-3/8	2-1/64	1-3/8	2-1/64	1-3/8	2-1/64	
32	1-5/8	2-3/64	1-9/16	2-1/16	1-9/16	2-1/16	1-1/2	2-1/16	1-7/16	2-5/64	1-3/8	2-5/64	1-3/8	2-5/64	
34	1-3/4	2-11/64	1-11/16	2-3/16	1-11/16	2-3/16	1-5/8	2-3/16	1-9/16	2-13/64	1-1/2	2-13/64	1-1/2	2-13/64	
36	1-7/8	2-19/64	1-13/16	2-5/16	1-13/16	2-5/16	1-3/4	2-5/16	1-11/16	2-21/64	1-5/8	2-21/64	1-5/8	2-21/64	
38	2	2-27/64	1-15/16	2-7/16	1-15/16	2-7/16	1-7/8	2-7/16	1-13/16	2-29/64	1-3/4	2-29/64	1-3/4	2-29/64	
40	2-1/8	2-35/64	2-1/16	2-9/16	2-1/8	2-9/16	2	2-9/16	1-15/16	2-37/64	1-7/8	2-37/64	1-7/8	2-37/64	
42	2-1/4	2-43/64	2-3/16	2-11/16	2-3/16	2-11/16	2-1/8	2-11/16	2-1/16	2-45/64	2	2-45/64	2	2-45/64	
44	2-3/8	2-51/64	2-5/16	2-13/16	2-5/16	2-13/16	2-1/4	2-13/16	2-3/16	2-53/64	2-1/8	2-53/64	2-1/8	2-53/64	
46	2-1/2	2-59/64	2-7/16	2-15/16	2-7/16	2-15/16	2-3/8	2-15/16	2-5/16	2-61/64	2-1/4	2-61/64	2-1/4	2-61/64	
48	2-5/8	3-3/64	2-9/16	3-1/16	2-9/16	3-1/16	2-1/2	3-1/16	2-7/16	3-5/64	2-3/8	3-5/64	2-3/8	3-5/64	
50	2-3/4	3-11/64	2-11/16	3-3/16	2-11/16	3-3/16	2-5/8	3-3/16	2-9/16	3-13/64	3-1/2	3-13/64	3-1/2	3-13/64	
52	2-7/8	3-19/64	2-13/16	3-5/16	2-13/16	3-5/16	2-3/4	3-5/16	2-11/16	3-21/64	2-5/8	3-21/64	2-5/8	3-21/64	
54	3	3-27/64	2-15/16	3-7/16	2-15/16	3-7/16	2-7/8	3-7/16	2-13/16	3-29/64	2-3/4	3-29/64	2-3/4	3-29/64	
56	3-1/8	3-35/64	3-1/16	3-9/16	3-1/8	3-9/16	3	3-9/16	2-15/16	3-37/64	2-7/8	3-37/64	2-7/8	3-37/64	
58	3-1/4	3-43/64	3-3/16	3-11/16	3-3/16	3-11/16	3-1/8	3-11/16	3-1/16	3-45/64	3	3-45/64	3	3-45/64	
60	3-3/8	3-51/64	3-5/16	3-13/16	3-5/16	3-13/16	3-1/4	3-13/16	3-3/16	3-53/64	3-1/8	3-53/64	3-1/8	3-53/64	
62	3-1/2	3-59/64	3-7/16	3-15/16	3-7/16	3-15/16	3-3/8	3-15/16	3-5/16	3-61/64	3-1/4	3-61/64	3-1/4	3-61/64	
64	3-5/8	4-3/64	3-9/16	4-1/16	3-9/16	4-1/16	3-1/2	4-1/16	3-7/16	4-5/64	3-3/8	4-5/64	3-3/8	4-5/64	
66	3-3/4	4-11/64	3-11/16	4-3/16	3-11/16	4-3/16	3-5/8	4-3/16	3-9/16	4-13/64	3-1/2	4-13/64	3-1/2	4-13/64	
68	3-7/8	4-19/64	3-13/16	4-5/16	3-13/16	4-5/16	3-3/4	4-5/16	3-11/16	4-21/64	3-5/8	4-21/64	3-5/8	4-21/64	
70	4	4-27/64	3-15/16	4-7/16	3-15/16	4-7/16	3-7/8	4-7/16	3-13/16	4-29/64	3-3/4	4-29/64	3-3/4	4-29/64	
72	4-1/8	4-35/64	4-1/16	4-9/16	4-1/8	4-9/16	4	4-9/16	3-15/16	4-37/64	3-7/8	4-37/64	3-7/8	4-37/64	
74	4-1/4	4-43/64	4-3/16	4-11/16	4-1/4	4-11/16	4-1/8	4-11/16	4-1/16	4-45/64	4	4-45/64	4	4-45/64	
76	4-3/8	4-51/64	4-5/16	4-13/16	4-5/16	4-13/16	4-1/4	4-13/16	4-3/16	4-53/64	4-1/8	4-53/64	4-1/8	4-53/64	
78	4-1/2	4-59/64	4-7/16	4-15/16	4-1/2	4-15/16	4-3/8	4-15/16	4-5/16	4-61/64	4-1/4	4-61/64	4-1/4	4-61/64	
80	4-5/8	5-3/64	4-9/16	5-1/16	4-9/16	5-1/16	4-1/2	5-1/16	4-7/16	5-5/64	4-3/8	5-5/64	4-3/8	5-5/64	
82	4-3/4	5-11/64	4-11/16	5-3/16	4-11/16	5-3/16	4-5/8	5-3/16	4-9/16	5-13/64	4-1/2	5-13/64	4-1/2	5-13/64	
84	4-7/8	5-19/64	4-13/16	5-5/16	4-13/16	5-5/16	4-3/4	5-5/16	4-11/16	5-21/64	4-5/8	5-21/64	4-5/8	5-21/64	
86	5	5-27/64	4-15/16	5-7/16	4-15/16	5-7/16	4-7/8	5-7/16	4-13/16	5-29/64	4-3/4	5-29/64	4-3/4	5-29/64	
88	5-1/8	5-35/64	4-17/16	5-9/16	4-17/16	5-9/16	4-15/16	5-9/16	4-13/16	5-37/64	4-7/8	5-37/64	4-7/8	5-37/64	
90	5-1/4	5-43/64	4-19/16	5-11/16	4-19/16	5-11/16	4-7/4	5-11/16	4-15/16	5-45/64	5	5-45/64	5	5-45/64	
92							5-1/4	5-13/16	5-3/16	5-53/64	5-1/8	5-53/64	5-1/8	5-53/64	
94							5-3/8	5-15/16	5-5/16	5-61/64	5-1/4	5-61/64	5-1/4	5-61/64	
96									5-7/16	6-5/64	5-3/8	6-5/64	5-3/8	6-5/64	
98									5-9/16	6-13/64	5-1/2	6-13/64	5-1/2	6-13/64	
100									5-11/16	6-21/64	5-5/8	6-21/64	5-5/8	6-21/64	
102									5-13/16	6-29/64	5-3/4	6-29/64	5-3/4	6-29/64	
104									5-15/16	6-37/64	5-7/8	6-37/64	5-7/8	6-37/64	
106									6-1/16	6-45/64	6	6-45/64	6	6-45/64	
108									6-3/16	6-53/64	6-1/8	6-53/64	6-1/8	6-53/64	
110											6-1/4	6-61/64	6-1/4	6-61/64	
112											6-3/8	7-5/64	6-3/8	7-5/64	

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