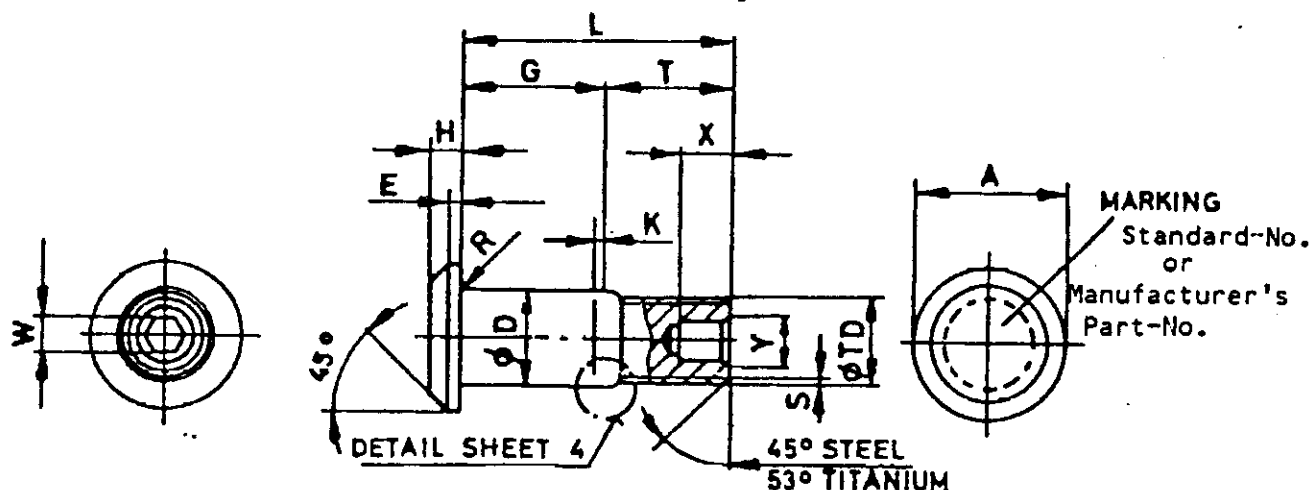


STANDARDS MANUAL

Dimensions in mm



PART NO IDENTIFICATION: ASN-A 2009

V 4 8

Length code
Diameter code
Material code
Specification number

CODE	MATERIAL	PROTECTION	LUBRICATION
None	Steel alloy 8740 per MIL-S-6049 or 4340 per MIL-S-5000 or equivalent R min = 124 hbar	Per A/DET 0012	Per A/DET 0013
V	Titanium 6AL4V per AMS 4928 or AMS 4967 treated at Rc min = 65 hbar, R min = 110 hbar		

THREAD: Per MIL-S-8879 except diameter TD

TOLERANCES: Coaxiality tolerances (total comparator reading)
- Diameter A and diameter D : 0,254 mm

SURFACE CONDITION: ANSI - B - 46.1

MANUFACTURER: HI-SHEAR HLT 344 BJ

(F)

NOTE: These bolts can be obtained from NSA5351 bolts without protection

Approved AIRBUS-INDUSTRIE	Title BOLT - CYLINDRICAL HEAD "BULL-NOSE"	Classification
		ASNA2009 Page 01 of 04

Issue: 03/81 Revision: (F) 03/85

REF. DIA.	THREAD UNJF - 3A	A		T	D		TD		E	S	H	
		MAX	MIN		MAX	MIN	MAX	MIN			REF.	REF.
3	.1900 (n°10).32	9,57	9,07	8,26	4,813	4,788	4,674	4,597	0,89	0,79	1,88	1,63
4	.2500 (1/4) .28	11,18	10,54	10,03	6,337	6,312		6,198	6,121		1,14	2,28
5	.3125 (5/16).24	12,07	12,83	12,70	7,925	7,899	7,772	7,671	1,40	1,19	2,84	2,59
6	.3750 (3/8) .24	15,24	14,35	13,84	9,512	9,487	9,347	9,246	1,91		3,55	3,30
7	.4375 (7/16).20	17,17	16,28	16,13	11,100	11,074	10,947	10,820	2,41		4,06	3,81
8	.5000 (1/2) .20	19,56	18,67	17,40	12,687	12,662	12,522	12,395			4,77	4,52
9	.5625 (9/16).18	22,27	21,39	19,56	14,262	14,237	14,097	13,970	3,18	1,59	5,33	5,08
10	.6250 (5/8) .18	24,21	23,32	20,96	15,850	15,824	15,697	15,545	3,56		6,04	5,79

REF. DIA.	R		INTERNAL HEXAGONAL						SUPPLIERS DIA. REF.
	MAX	MIN	MAX	W MIN	MAX	X MIN	MAX	Y MIN	
3	0,63	0,38	2,05	2,01	2,54	2,03	3,02	2,64	6
4			2,46	2,41	2,79	2,28	3,60	3,10	8
5	0,76	0,51	3,29	3,23	3,30	2,79	4,57	4,07	10
6			4,11	4,02	4,06	3,56	5,51	5,01A	12
7			4,90	4,82	4,83	4,32	6,43	5,92	14
8			5,69	5,61	5,59	5,08	7,34	6,83	16
9	1,01	0,64	6,49	6,40	6,60	6,10	8,28	7,77	18
10			6,49	6,40	6,60	6,10	8,28	7,77	20

REF. DIA.	TENSILE STRENGTH MIN daN		DOUBLE SHEAR STRENGTH MIN DaN	
		TITANIUM		TITANIUM
3	1710	1412	2720	2388
4	2908	2584	4706	4129
5	4595	4085	7370	6482
6	6993	6216	10612	9324
7	9413	8392	14430	12698
8	12787	11366	18825	16561
9	16162	14380	23842	20956
10	20468	18204	29437	25885

PROCUREMENT SPECIFICATION: Per A/DET 0010

Protection per A/DET 0012

Sharp angles must be smoothed and the parts free of burrs and chips.

Classification

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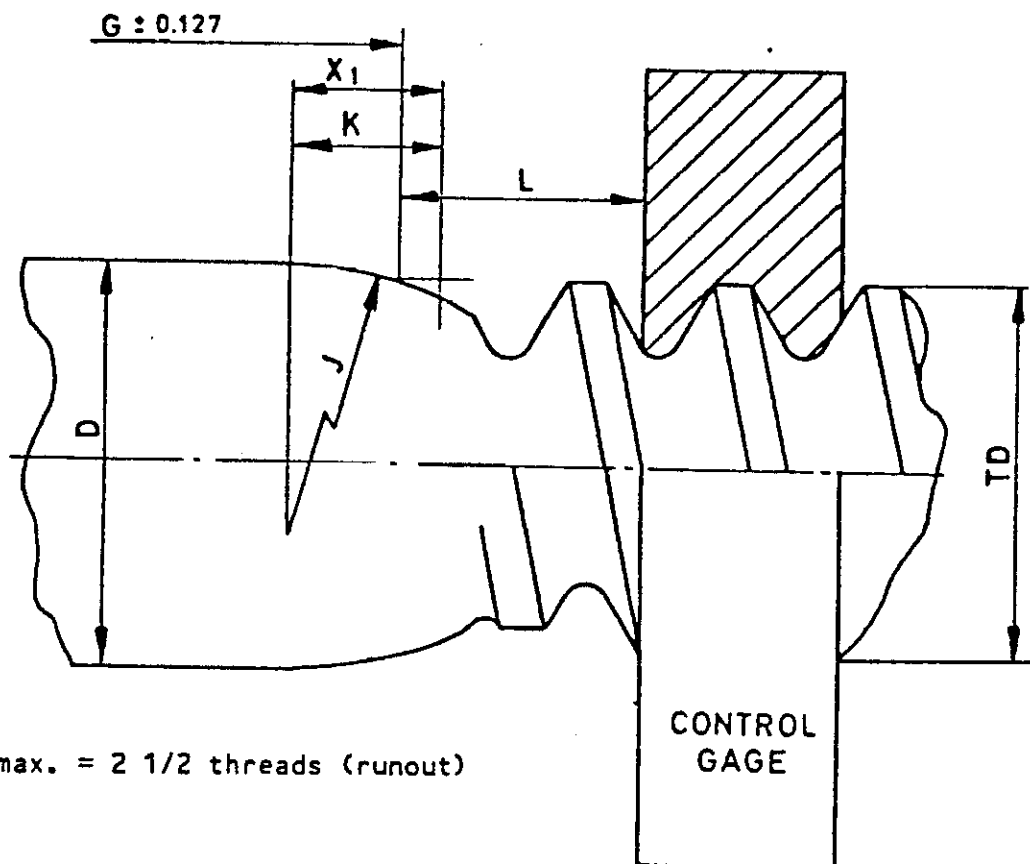
Issue: 03/81 (F) 03/85

Length Codes	G ± 0,127	L ± 0,254							
		3	4	5	6	7	8	9	10
1	1,59	9,85	11,62						
2	3,18	11,44	13,21	15,88	17,02	19,31	20,58		
3	4,76	13,03	14,79	17,46	18,60	20,89	22,16	24,32	25,72
4	6,35	14,61	16,38	19,05	20,19	22,48	23,75	25,91	27,30
5	7,94	16,20	17,97	20,64	21,78	24,07	25,34	27,50	28,90
6	9,52	17,78	19,55	22,22	23,36	25,65	26,92	29,08	30,48
7	11,11	19,37	21,14	23,81	24,95	27,24	28,51	30,67	32,07
8	12,70	20,96	22,73	25,40	26,54	28,83	30,10	32,26	33,66
8	14,29	22,55	24,32	26,99	28,13	30,42	31,69	33,85	35,25
10	15,88	24,14	25,91	28,58	29,72	32,01	33,28	35,44	36,84
11	17,46	25,72	27,49	30,16	31,30	33,59	34,86	37,02	38,42
12	19,05	27,31	29,08	31,75	32,89	35,18	36,45	38,61	40,01
13	20,64	28,90	30,67	33,34	34,48	36,77	38,04	40,20	41,60
14	22,22	30,48	32,25	34,92	36,07	38,35	39,62	41,78	43,18
15	23,81	32,07	33,84	36,51	37,65	39,94	41,21	43,37	44,77
16	25,40	33,66	35,43	38,10	39,24	41,53	42,80	44,96	46,36
17	26,99	35,25	37,02	39,69	40,83	43,12	44,39	46,55	47,95
18	28,58	36,84	38,61	41,28	42,42	44,71	45,98	48,14	49,54
19	30,16	38,42	40,19	42,86	44,00	46,29	47,56	49,72	51,12
20	31,75	40,01	41,78	44,45	45,59	47,88	49,15	51,31	52,71
21	33,34	41,60	43,37	46,04	47,18	49,47	50,74	52,90	54,30
22	34,92	43,18	44,95	47,62	48,76	51,05	52,32	54,48	55,88
23	36,51	44,77	46,54	49,21	50,35	52,64	53,91	56,07	57,47
24	38,10	46,36	48,13	50,80	51,94	54,23	55,50	57,66	59,06
25	39,69	47,94	49,71	52,38	53,52	55,81	57,08	59,24	60,64
26	41,28	49,54	51,31	53,98	55,12	57,41	58,68	60,84	62,24
27	42,86	51,12	52,89	55,56	56,70	58,99	60,26	62,42	63,82
28	44,45	52,71	54,48	57,15	58,29	60,58	61,85	64,01	65,41
29	46,04	54,30	56,07	58,74	59,88	62,17	63,44	65,60	67,00
30	47,62	55,88	57,65	60,32	61,46	63,75	65,02	67,18	68,58
31	49,21	57,47	59,24	61,91	63,03	65,34	66,61	68,77	70,17
32	50,80	59,06	60,83	63,50	64,64	66,93	68,20	70,36	71,76
34	53,98	62,24	64,01	66,68	67,82	70,11	71,38	73,54	74,94
36	57,15	65,41	67,18	69,85	70,99	73,28	74,55	76,71	78,11
38	60,32	68,58	70,35	73,02	74,16	76,45	77,72	79,88	81,28
40	63,50	71,76	73,53	76,20	77,34	79,63	80,90	83,06	84,46
42	66,68	74,94	76,71	79,38	80,52	82,81	84,08	86,24	87,64
44	69,85	78,11	79,88	82,55	83,69	85,98	87,25	89,41	90,81
46	73,02	81,28	83,05	85,72	86,86	89,15	90,42	92,58	93,98
48	76,20	84,46	86,23	88,90	90,04	92,33	93,60	95,76	97,16
50	79,38	87,64	89,41	92,08	93,22	95,51	96,78	98,94	100,34
52	82,55	90,81	92,58	95,25	96,39	98,68	99,95	102,11	103,51
54	85,72	93,98	95,75	98,42	99,56	101,85	103,12	105,28	106,68
56	88,90	97,16	98,93	101,60	102,74	105,03	106,30	108,46	109,86
58	92,09	100,34	102,11	104,78	105,92	108,21	109,48	111,64	113,04
60	95,25	103,51	105,28	107,95	109,09	111,38	112,65	114,81	116,21

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$L \text{ max.} = 2 \frac{1}{2} \text{ threads (runout)}$

DIA. REF.	X_1 REF.	J		K MAX	L
		MIN	MAX		
3	0,63	2,92	3,43	0,41	1,98
4	0,76	4,19	4,70	0,53	2,26
5	0,88	5,46	5,97	0,66	2,64
6	0,99	7,24	7,75	0,76	2,64
7	1,12	8,51	9,02	0,89	3,18
8	1,22	9,78	10,29	0,99	3,18
9	1,37	9,78	10,29	0,99	3,53
10	1,50	11,50	12,00	1,09	3,53

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