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**RIVET - MEDIUM HEAD, COUNTERSUNK, LOCKBOLT**

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**SUMMARY****1 - SCOPE AND FIELD OF APPLICATION****2 - REFERENCES****3 - TERMINOLOGY****4 - REQUIRED CHARACTERISTICS****5 - DESIGNATION****6 - MARKING****7 - TECHNICAL SPECIFICATION****8 - MANUFACTURERS****AMENDMENT RECORD SHEET****1 - SCOPE AND FIELD OF APPLICATION**

This standard specifies the dimensions, tolerances, required characteristics and the masses of a rivet, medium head, countersunk, lockbolt.

**2 - REFERENCES**

AMS4967	: Titanium alloy bars, wire forgings and rings 6.0AL-4.0V annealed heat treated.
ANSI/ASME-B46-1	: Surface texture (surface roughness waviness and lay).
ASNA2025	: Bush - For use with ASNA2043, ASNA2048, ASNA2391 and ASNA2392.
C2010	: Procurement specification.
EN6117	: Aerospace series - Specification for lubrication of pins with Cetyl Alcohol.
EN6118	: Aerospace series - Process specification - Aluminium base protection for fasteners.
EN2424	: Aerospace series - Marking of aerospace products.
I.C.T. No. 67	: Manufacturer's specification.

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## 3 - TERMINOLOGY

Not applicable.

## 4 - REQUIRED CHARACTERISTICS

### 4.1 - Configuration, dimensions, tolerances, mass

4.1.1 - Configuration shall be in accordance with the figure.

4.1.2 - Dimensions shall be in accordance with the figure and tables 1 and 2.

Definition of the grip length code No.: divide grip length by 1,58.

4.1.3 - General tolerances shall be in accordance with the figure and tables 1 and 2.

Concentricity tolerances of the tapered surface of head with respect to Ø A within the value of 0,127 mm (TIR).

Shank rectitude within the values of S (TIR per shank length of 25,4 mm).

4.1.4 - Mass shall be in accordance with table 4.

### 4.2 - Material, finish, lubrication

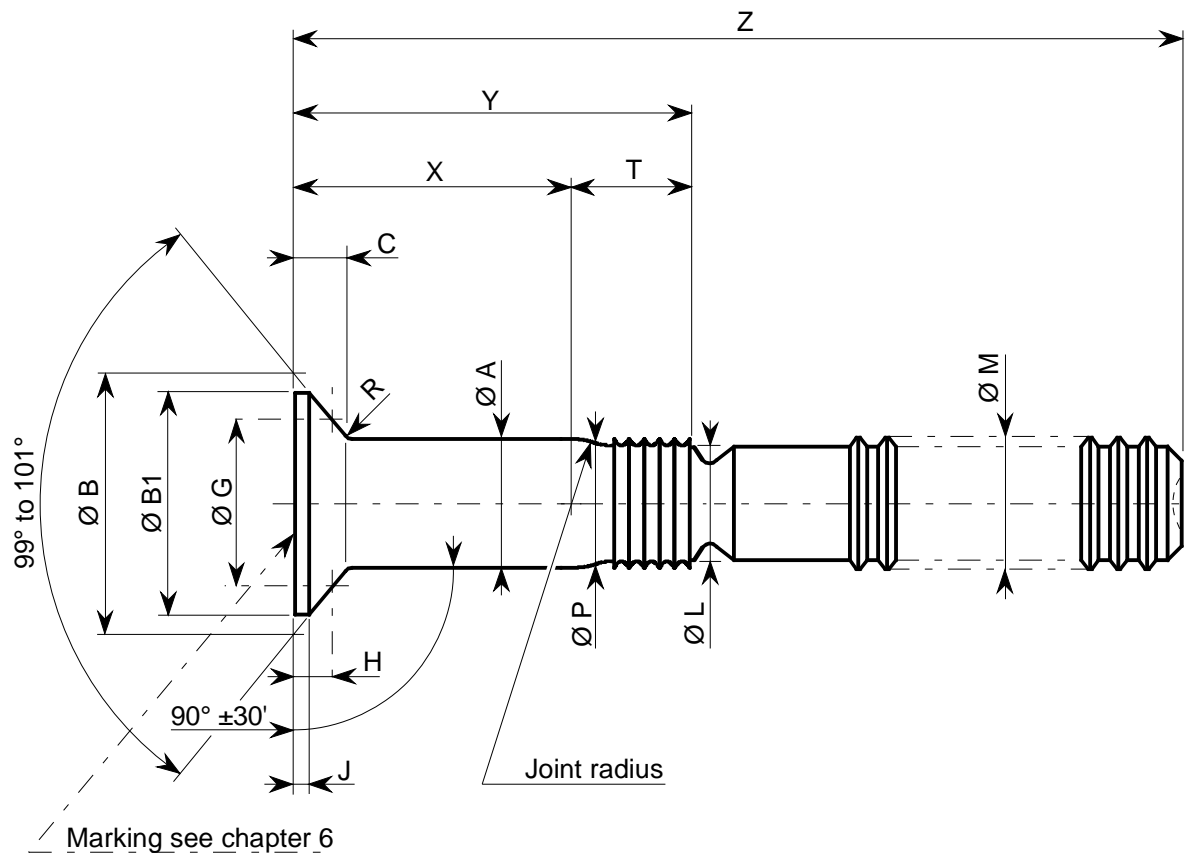
Material, finish and lubrication shall be in accordance with table 5.

### 4.3 - Mechanical characteristics

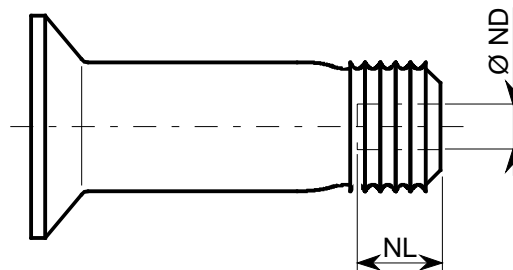
Mechanical characteristics shall be in accordance with table 6.

### 4.4 - General characteristics

Surface roughness as per ANSI/ASME-B46-1: Ra 0,8 µm for bearing side, shank and coupling radius at both shank ends, Ra 3,2 µm for other surfaces.



**Type S**  
(see chapter 5)



Dimensions in mm.

Figure - Configuration, dimensions

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Table 1 - Dimensions, tolerances

DIAMETER CODE No.	NOMINAL Ø	Ø A ±0,0127	Ø B Ref.	Ø B1 Max. Min.	C Ref.	Ø G ±0,0025	H Max. Min.	J Max.	Ø L Ref.
2	4,166	4,140	7,048	6,741 6,568	1,221	5,148	0,838 0,757	0,254	3,200
3	4,826	4,800	8,188	7,874 7,419	1,422	6,197	0,876 0,795	0,381	3,810
3A	5,555	5,529	9,436	9,131 8,959	1,641	7,571	0,820 0,744	0,254	4,394
4	6,350	6,324	10,754	10,434 9,990	1,859	8,417	1,021 0,940	0,381	4,749
5	7,925	7,912	13,474	13,142 12,728	2,334	10,970	1,097 1,006		6,197
6	9,525	9,500	16,146	15,789 15,420	2,788	12,326	1,648 1,557		7,569
7	11,113	11,087	18,694	18,357 17,526	3,193	16,715	0,881 0,780	0,559	7,925
8	12,700	12,674	21,217	20,861 20,061	3,584	18,285	1,280 1,179		9,525

DIAMETER CODE No.	NOMINAL Ø	Ø M Max.	Ø P Max.	R ±0,127	S Shank rectitude	T Ref.	NL Max.	Ø ND Max.
2	4,166	3,962	3,962	0,508	0,114	3,810	2,79	1,65
3	4,826	4,673	4,673	0,635		3,860	3,00	2,18
3A	5,555	5,410	5,410			5,334	3,00	2,18-
4	6,350	6,197	6,197			5,334	4,11	2,77
5	7,925	7,772	7,772	0,889		6,832	5,49	3,58
6	9,525	9,347	9,398		0,152	8,153	6,17	4,34
7	11,113	10,947	10,947	1,143		9,550	-	-
8	12,700	12,497	12,497			10,973	-	-

Dimensions in mm.

Table 2 - Dimensions, tolerances

(diameter code Nos continued on page 6)

GRIP LENGTH CODE No.	ADMISSIBLE TIGHTENING LENGTH		GRIP LENGTH		X *	DIAMETER CODE No.							
						2		3		3A		4	
						Y	Z	Y	Z	Y	Z	Y	Z
	Min.	Max.	Min.	Max.	±0,127	±0,25	+ 1,524 0	±0,25	+ 1,524 0	±0,25	+ 1,524 0	±0,25	+ 1,524 0
02	1,19	3,58	1,60	3,18	3,18	6,98	20,34	7,03	22,20	8,51	22,81	-	-
03	2,76	5,15	3,20	4,78	4,78	8,59	21,95	8,63	23,80	10,11	24,41	10,10	26,69
04	4,36	6,75	4,80	6,35	6,35	10,16	23,52	10,21	25,37	11,68	25,98	11,68	28,27
05	5,94	8,33	6,38	7,93	7,93	11,73	25,09	11,78	26,95	13,26	27,56	13,25	29,84
06	7,54	9,93	7,95	9,53	9,53	13,33	26,69	13,38	28,55	14,86	29,16	14,85	31,44
07	9,11	11,50	9,55	11,13	11,13	14,94	28,30	14,98	30,15	16,46	30,76	16,45	33,04
08	10,71	13,10	11,15	12,70	12,70	16,51	29,87	16,56	31,72	18,03	32,33	18,03	34,62
09	12,29	14,68	12,73	14,28	14,28	18,08	31,44	18,13	33,30	19,61	33,91	19,60	36,19
10	13,89	16,28	14,30	15,88	15,88	19,68	33,04	19,73	34,90	21,21	35,51	21,20	37,79
11	15,46	17,85	15,90	17,48	17,48	21,29	34,65	21,33	36,50	22,81	37,11	22,80	39,39
12	17,06	19,45	17,50	19,05	19,05	22,86	36,22	22,91	38,07	24,38	38,68	24,38	40,97
13	18,64	21,03	19,08	20,63	20,63	24,43	37,79	24,48	39,65	25,96	40,26	25,95	42,54
14	20,24	22,63	20,65	22,23	22,23	26,03	39,39	26,08	41,25	27,56	41,86	27,55	44,14
15	21,81	24,20	22,25	23,83	23,83	27,64	41,00	27,68	42,85	29,16	43,46	29,15	45,74
16	23,41	25,80	23,85	25,40	25,40	29,21	42,57	29,26	44,42	30,73	45,03	30,73	47,32
17	24,99	27,38	25,43	26,98	26,98	30,78	44,14	30,83	46,00	32,31	46,61	32,30	48,89
18	26,59	28,98	27,00	28,58	28,58	32,38	45,74	32,43	47,60	33,91	48,21	33,90	50,49
19	28,16	30,55	28,60	30,18	30,18	33,99	47,35	34,03	49,20	35,51	49,81	35,50	52,09
20	29,76	32,15	30,20	31,75	31,75	35,56	48,92	35,61	50,77	37,08	51,38	37,08	53,67
21	31,34	33,73	31,78	33,33	33,33	37,13	50,49	37,18	52,35	38,66	52,96	38,65	55,24
22	32,94	35,33	33,35	34,93	34,93	38,73	52,09	38,78	53,95	40,26	54,56	40,25	56,84
23	34,51	36,90	34,95	36,53	36,53	40,34	53,70	40,38	55,55	41,86	56,16	41,85	58,44
24	36,11	38,50	36,55	38,10	38,10	41,91	55,27	41,96	57,12	43,43	57,73	43,43	60,02
25	37,69	40,08	38,13	39,68	39,68	43,48	56,84	43,53	58,70	45,01	59,31	45,00	61,59
26	39,29	41,68	39,70	41,28	41,28	45,08	58,44	45,13	60,30	46,61	60,91	46,60	63,19
27	40,86	43,25	41,30	42,88	42,88	46,69	60,05	46,73	61,90	48,21	62,51	48,20	64,79
28	42,46	44,85	42,90	44,45	44,45	48,26	61,62	48,31	63,47	49,78	64,08	49,78	66,37
29	44,04	46,43	44,48	46,03	46,03	49,83	63,19	49,88	65,05	51,36	65,66	51,35	67,94
30	45,64	48,03	46,05	47,63	47,63	51,43	64,79	51,48	66,65	52,96	67,26	52,95	69,54
31	47,21	49,60	47,65	49,23	49,23	53,04	66,40	53,08	68,25	54,56	68,86	54,55	71,14
32	48,81	51,20	49,25	50,80	50,80	54,61	67,97	54,66	69,82	56,13	70,43	56,13	72,72

\* Grip length is measured from the top of the head to the end of the full cylindrical portion of the shank.

Dimensions in mm.

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Table 2 - (diameter code Nos continued from page 5)

(end)

GRIP LENGTH CODE No.	ADMISSIBLE TIGHTENING LENGTH		GRIP LENGTH		X *	DIAMETER CODE No.							
						5		6		7		8	
						Y	Z	Y	Z	Y	Z	Y	Z
	Min.	Max.	Min.	Max.	±0,127	±0,25	+ 1,524 0	±0,25	+ 1,524 0	±0,25	+ 1,524 0	±0,25	+ 1,524 0
02	1,19	3,58	1,60	3,18	3,18	-	-	-	-	-	-	-	-
03	2,76	5,15	3,20	4,78	4,78	11,61	29,34	-	32,38	-	-	-	-
04	4,36	6,75	4,80	6,35	6,35	13,18	30,91	14,50	33,96	15,90	38,02	17,32	43,33
05	5,94	8,33	6,38	7,93	7,93	14,75	32,49	16,07	35,53	17,48	39,60	18,90	44,91
06	7,54	9,93	7,95	9,53	9,53	16,35	34,09	17,67	37,13	19,08	41,20	20,50	46,51
07	9,11	11,50	9,55	11,13	11,13	17,96	35,69	19,27	38,73	20,68	42,80	22,10	48,11
08	10,71	13,10	11,15	12,70	12,70	19,53	37,26	20,85	40,31	22,25	44,37	23,67	49,68
09	12,29	14,68	12,73	14,28	14,28	21,11	38,84	22,42	41,88	23,83	45,95	25,25	51,26
10	13,89	16,28	14,30	15,88	15,88	22,71	40,44	24,03	43,48	25,43	47,55	26,85	52,86
11	15,46	17,85	15,90	17,48	17,48	24,31	42,04	25,62	45,08	27,03	49,15	28,45	54,46
12	17,06	19,45	17,50	19,05	19,05	25,88	43,61	27,20	46,66	28,60	50,72	30,02	56,03
13	18,64	21,03	19,08	20,63	20,63	27,46	45,19	28,77	48,23	30,18	52,30	31,60	57,61
14	20,24	22,63	20,65	22,23	22,23	29,06	46,79	30,37	49,83	31,78	53,90	33,20	59,21
15	21,81	24,20	22,25	23,83	23,83	30,66	48,39	31,97	51,43	33,38	55,50	34,80	60,81
16	23,41	25,80	23,85	25,40	25,40	32,23	49,96	33,55	53,01	34,95	57,07	36,37	62,38
17	24,99	27,38	25,43	26,98	26,98	33,81	51,54	35,12	54,58	36,53	58,65	37,95	63,96
18	26,59	28,98	27,00	28,58	28,58	35,41	53,14	36,72	56,18	38,13	60,25	39,55	65,56
19	28,16	30,55	28,60	30,18	30,18	37,01	54,74	38,32	57,78	39,73	61,85	41,15	67,16
20	29,76	32,15	30,20	31,75	31,75	38,58	56,31	39,90	59,36	41,30	63,42	42,72	68,73
21	31,34	33,73	31,78	33,33	33,33	40,16	57,89	41,47	60,93	42,88	65,00	44,30	70,31
22	32,94	35,33	33,35	34,93	34,93	41,76	59,49	43,07	62,53	44,48	66,60	45,90	71,91
23	34,51	36,90	34,95	36,53	36,53	43,36	61,09	44,67	64,13	46,08	68,20	47,50	73,51
24	36,11	38,50	36,55	38,10	38,10	44,93	62,66	46,25	65,71	47,65	69,77	49,07	75,08
25	37,69	40,08	38,13	39,68	39,68	46,51	64,24	47,82	67,28	49,23	71,35	50,65	76,66
26	39,29	41,68	39,70	41,28	41,28	48,11	65,84	49,42	68,88	50,83	72,95	52,25	78,26
27	40,86	43,25	41,30	42,88	42,88	49,71	67,44	51,02	70,48	52,43	74,55	53,85	79,86
28	42,46	44,85	42,90	44,45	44,45	51,28	69,01	52,60	72,06	54,00	76,12	55,42	81,43
29	44,04	46,43	44,48	46,03	46,03	52,86	70,59	54,17	73,63	55,58	77,70	57,00	83,01
30	45,64	48,03	46,05	47,63	47,63	54,45	72,19	55,77	75,23	57,18	79,30	58,60	84,61
31	47,21	49,60	47,65	49,23	49,23	56,06	73,79	57,37	76,83	58,78	80,90	60,20	86,21
32	48,81	51,20	49,25	50,80	50,80	57,63	75,36	58,95	78,41	60,35	82,47	61,77	87,78

\* Grip length is measured from the top of the head to the end of the full cylindrical portion of the shank.

Dimensions in mm.

Table 3 - Dimensions, tolerances of "stump" type (code S)

GRIP LENGTH CODE No.	ADMISSIBLE TIGHTENING LENGTH		GRIP LENGTH		X *	DIAMETER CODE No.							
						2	3	3A	4	5	6	7	8
						Y	Y	Y	Y	Y	Y	Y	Y
	Min.	Max.	Min.	Max.	±0,127	±0,25	±0,25	±0,25	±0,25	±0,25	±0,25	±0,25	±0,25
02	1,19	3,58	1,60	3,18	3,18	7,29	7,52	9,04	-	-	-	-	-
03	2,76	5,15	3,20	4,78	4,78	8,89	9,12	10,64	10,64	12,29	-	-	-
04	4,36	6,75	4,80	6,35	6,35	10,46	10,69	12,22	12,22	13,87	15,11	16,31	17,63
05	5,94	8,33	6,38	7,93	7,93	12,04	12,27	13,79	13,79	15,44	16,69	17,88	19,20
06	7,54	9,93	7,95	9,53	9,53	13,64	13,87	15,39	15,39	17,04	18,29	19,48	20,80
07	9,11	11,50	9,55	11,13	11,13	15,24	15,47	16,99	16,99	18,64	19,89	21,08	22,40
08	10,71	13,10	11,15	12,70	12,70	16,81	17,04	18,57	18,57	20,22	21,46	22,66	23,98
09	12,29	14,68	12,73	14,28	14,28	18,39	18,62	20,14	20,14	21,79	23,04	24,23	25,55
10	13,89	16,28	14,30	15,88	15,88	19,99	20,22	21,74	21,74	23,39	24,64	25,83	27,15
11	15,46	17,85	15,90	17,48	17,48	21,59	21,82	23,34	23,34	24,99	26,24	27,43	28,75
12	17,06	19,45	17,50	19,05	19,05	23,16	23,39	24,92	24,92	26,57	27,81	29,01	30,33
13	18,64	21,03	19,08	20,63	20,63	24,74	24,97	26,49	26,49	28,14	29,39	30,58	31,90
14	20,24	22,63	20,65	22,23	22,23	26,34	26,57	28,09	28,09	29,74	30,99	32,18	33,50
15	21,81	24,20	22,25	23,83	23,83	27,94	28,17	29,69	29,69	31,34	32,59	33,78	35,10
16	23,41	25,80	23,85	25,40	25,40	29,51	29,74	31,27	31,27	32,92	34,16	35,36	36,68
17	24,99	27,38	25,43	26,98	26,98	31,09	31,32	32,84	32,84	34,49	35,74	36,93	38,25
18	26,59	28,98	27,00	28,58	28,58	32,69	32,92	34,44	34,44	36,09	37,34	38,53	39,85
19	28,16	30,55	28,60	30,18	30,18	34,29	34,52	36,04	36,04	37,69	38,94	40,13	41,45
20	29,76	32,15	30,20	31,75	31,75	35,86	36,09	37,62	37,62	39,27	40,51	41,71	43,03
21	31,34	33,73	31,78	33,33	33,33	37,44	37,67	39,19	39,19	40,84	42,09	43,28	44,60
22	32,94	35,33	33,35	34,93	34,93	39,04	39,27	40,79	40,79	42,44	43,69	44,88	46,20
23	34,51	36,90	34,95	36,53	36,53	40,64	40,87	42,39	42,39	44,04	45,29	46,48	47,80
24	36,11	38,50	36,55	38,10	38,10	42,21	42,44	43,97	43,97	45,62	46,86	48,06	49,38
25	37,69	40,08	38,13	39,68	39,68	43,79	44,02	45,54	45,54	47,19	48,44	49,63	50,95
26	39,29	41,68	39,70	41,28	41,28	45,39	45,62	47,14	47,14	48,79	50,04	51,23	52,55
27	40,86	43,25	41,30	42,88	42,88	46,99	47,22	48,74	48,74	50,39	51,64	52,83	54,15
28	42,46	44,85	42,90	44,45	44,45	48,56	48,79	50,32	50,32	51,97	53,21	54,41	55,73
29	44,04	46,43	44,48	46,03	46,03	50,14	50,37	51,89	51,89	53,54	54,79	55,98	57,30
30	45,64	48,03	46,05	47,63	47,63	51,74	51,97	53,49	53,49	55,14	56,39	57,58	58,90
31	47,21	49,60	47,65	49,23	49,23	53,34	53,57	55,09	55,09	56,74	57,99	59,18	60,50
32	48,81	51,20	49,25	50,80	50,80	54,91	55,14	56,67	56,67	58,32	59,56	60,76	62,08

\* Grip length is measured from the top of the head to the end of the full cylindrical portion of the shank.

Dimensions in mm.

Table 4 - Mass

GRIP LENGTH CODE No.	MASS (g)							
	DIAMETER CODE No.							
	2	3	3A	4	5	6	7	8
02	0,38	0,63	1,48	1,32	2,09	4,03	-	-
03	0,47	0,76	1,64	1,54	2,43	4,53	-	-
04	0,57	0,88	1,81	1,76	2,78	4,99	8,76	12,94
05	0,67	1,01	1,98	1,98	3,12	5,44	9,46	13,86
06	0,77	1,14	2,15	2,20	3,47	5,89	10,16	14,77
07	0,86	1,27	2,32	2,42	3,81	6,53	10,87	15,70
08	0,96	1,40	2,49	2,64	4,15	6,92	11,58	16,63
09	1,06	1,52	2,66	2,86	4,50	7,52	12,28	17,55
10	1,16	1,64	2,83	3,08	4,84	8,02	12,98	18,47
11	1,25	1,77	3,00	3,30	5,19	8,52	13,69	19,40
12	1,35	1,90	3,16	3,52	5,53	9,01	14,40	20,33
13	1,45	2,03	3,33	3,74	5,88	9,48	15,10	21,25
14	1,55	2,15	3,50	3,96	6,22	10,02	15,80	22,17
15	1,65	2,28	3,67	4,18	6,57	10,52	16,51	23,10
16	1,74	2,41	3,84	4,40	6,91	11,01	17,22	24,03
17	1,84	2,54	4,01	4,62	7,26	11,50	17,92	24,95
18	1,94	2,67	4,18	4,84	7,60	12,01	18,62	25,87
19	2,04	2,80	4,35	5,06	7,95	12,51	19,33	26,80
20	2,13	2,93	4,52	5,28	8,29	13,01	20,04	27,73
21	2,23	3,05	4,68	5,50	8,64	13,50	20,74	28,65
22	2,33	3,18	4,85	5,72	8,98	14,00	21,44	29,56
23	2,43	3,31	5,02	5,94	9,33	14,50	22,15	30,50
24	2,52	3,44	5,19	6,16	9,67	15,00	22,86	31,43
25	2,62	3,57	5,36	6,38	10,02	15,50	23,56	32,35
26	2,72	3,70	5,53	6,60	10,36	16,00	24,25	33,26
27	2,82	3,83	5,70	6,82	10,71	16,50	24,96	34,19
28	2,92	3,95	5,87	7,04	11,05	17,00	25,67	35,13
29	3,01	4,08	6,04	7,26	11,40	17,50	26,38	36,05
30	3,11	4,21	6,20	7,48	11,74	18,00	27,07	36,96
31	3,21	4,34	6,37	7,70	12,09	18,48	27,78	37,89
32	3,31	4,47	6,54	7,92	12,43	18,98	28,49	38,82



Table 5 - Materials, finishes, lubrications

MATERIAL	FINISH	LUBRICATION
Titanium alloy 6AL-4V as per AMS4967 Rc = 655 MPa	IVD as per EN6118	Cetyl alcohol as per EN6117

Table 6 - Mechanical characteristics

DIAMETER CODE No.	NOMINAL Ø	DOUBLE SHEAR STRENGTH Min. (daN)	TENSILE STRENGTH WITH BUSH ASNA2025 Min. (daN)
2	4,166	1 783	622
3	4,826	2 393	711
3A	5,555	3 202	1 000
4	6,350	4 136	1 334
5	7,925	6 494	2 224
6	9,525	9 341	3 113
7	11,113	12 722	4 226
8	12,700	16 592	5 560

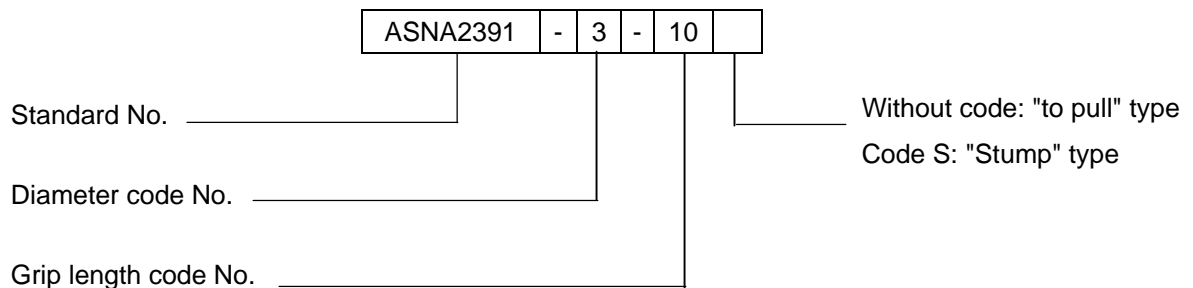
Dimensions in mm.

## 5 - DESIGNATION

Example of part number identification to be used on drawing schedules:

ASNA2391-3-10 , Rivet

Example of part number construction:



# ASNA2391

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## 6 - MARKING

Parts shall be marked as per EN2424, category G.

Manufacturer's reference marking on head (recessed of 0,254 mm max.).

## 7 - TECHNICAL SPECIFICATION

As per manufacturer's specification C2010 and I.C.T. No. 67.

## 8 - MANUFACTURERS

Refer to the list of qualified manufacturers and products.

## AMENDMENT RECORD SHEET

Issue	Modified paragraph	Modification summary	Justification
A.06.87		New standard.	A 320
B.11.87		Masses modified.	Mod. 9999
C.12.87		Ø A modified for diameter code No. 5: 7,829 mm changed to 7,899 mm. 3Y modified for grip length code No. 29: 50,13 mm changed to 49,88 mm. Masses modified. Manufacturer's specification I.C.T. No. 67 added in technical specification.	In accordance with manufacturer's documentation
D.10.88		Diameter code No. 6 added.	BAe request - A 340 B36/COM/21335/DM
E.01.89		Dimensions G and H modified. Type "S" added.	Manufacturer's information A 340
F.03.90		Type "S" added on drawing schedules.	A 340
G.03.99		Standard fully amended. Diameter code No. 2 (4,166 mm), 7 (11,113 mm) and 8 (12,700 mm) added.	A 340-500/600
H.02.01		Dimension modified in table 2 for grip length code No. 10/diameter code No. 6: 22,70 mm changed to 24,03 mm.	In accordance with manufacturer documentation
J.11.02		Diameter code No. 3A added.	A 380
K.11.04		Dimensions modified for diameter code No 3A in table 1 ( Ø A, H, NL and Ø ND).	A 380

**NOTE:** Modification to the last standard issue are indicated by a vertical line in the margin.

**AMENDMENT RECORD SHEET**

<b>Issue</b>	<b>Modified paragraph</b>	<b>Modification summary</b>	<b>Justification</b>
L.06.07		<p>“Grip length” is called “X”.</p> <p>In table 1, values of dimensions “Ø A”, “Ø B”, “C”, “Ø G” and “R” modified.</p> <p>In figure angle <math>90^{\circ} \pm 30'</math> added.</p> <p>Unit “µm” added for surface roughness in § 4.4.</p> <p>Dimensions “Ø B1” added.</p> <p>”Admissible tightening torque” changed to “Admissible tightening length” in table 2.</p> <p>In table 2, values of dimensions “Z” modified.</p> <p>In table 4, masses of diameter code 3A added.</p>	In accordance with manufacturer documentation

**NOTE:** Modification to the last standard issue are indicated by a vertical line in the margin.