



AN960

Airframe Washer, (Per 100)

To Fit Dia.	CARBON STEEL		CORROSION RESISTANT	
	AN960# Std. Thickness	AN960#L Light	AN960C Std. Thickness	AN960C#L Light
# 2	2	2L	C2	C2L
# 3	3	3L	C3	C3L
# 4	4	4L	C4	C4L
# 6	6	6L	C6	C6L
# 8	8	8L	C8	C8L
# 10	10	10L	C10	C10L
1/4	416	416L	C416	C416L
5/16	516	516L	C516	C516L
3/8	616	616L	C616	C616L
7/16	716	716L	C716	C716L
1/2	816	816L	C816	C816L
9/16	916	916L	C916	C916L
5/8	1016	1016L	C1016	C1016L
3/4	1216	1216L	C1216	C1216L
7/8	1416	1416L	C1416	C1416L

(MOST AN960 SERIES WASHERS SOLD BY MONROE AEROSPACE ARE DUALY CERTIFIED TO BOTH AN960 AND NAS1149 SERIES)

AN960

Airframe Washer,
Aluminum (Per 100)

To Fit Dia	ANODIZED FINISH		NATURAL FINISH	
	AN960JD Std. Thickness	AN960JD#L Light	AN960D# Std. Thickness	AN960D#L Light
# 3	JD3	JD3L	D3	D3L
# 4	JD4	JD4L	D4	D4L
# 6	JD6	JD6L	D6	D6L
# 8	JD8	JD8L	D8	D8L
# 10	JD10	JD10L	D10	D10L
1/4	JD416	JD416L	D416	D416L
5/16	JD516	JD516L	D516	D516L
3/8	JD616	JD616L	D616	D616L
7/16	JD716	JD716L	D716	D716L
1/2	JD816	JD816L	D816	D816L
9/16	JD916	JD916L	D916	D916L
5/8	JD1016	JD1016L	D1016	D1016L
3/4	JD1216	JD1216L	---	---

AN960

Airframe Washer,
Black Oxide Coat Cover
Corrosion Resistant Steel (Per 100)

To Fit Dia	AN960XC Std. Thickness	AN960XC#L Light
# 4	XC4	XC4L
# 6	XC6	XC6L
# 8	XC8	XC8L
# 10	XC10	XC10L
1/4	XC416	XC416L
5/16	XC516	XC516L
3/8	XC616	XC616L
7/16	XC716	XC716L
1/2	XC816	XC816L

AN960

Airframe Washer,
Anodized Aluminum
Anodized per MIL-A-8625 (Per 100)

To Fit Dia	AN960KD Std. Thickness	AN960KD#L Light
# 4	KD4	KD4L
# 6	KD6	KD6L
# 8	KD8	KD8L
# 10	KD10	KD10L
1/4	KD416	KD416L
5/16	KD516	KD516L
3/8	KD616	KD616L
7/16	KD716	KD716L
1/2	KD816	KD816L

TINNERMAN WASHER

100° Countersunk.
Dash # -193 is New Revision / Supersedes Dash -24A

To Fit Dia.	Thickness	CARBON STEEL	STAINLESS STEEL
		Part #	Part #
#6	.012	A3236-012-193	EC1075-012-06SS
#8	.017	A3135-017-24A	EC1080-017-08SS
#10	.020	A3235-020-193	EC1085-020-10SS
#10	.028	A3235-028-193	-----

MS24693 (AN507)

100° Flat Head
Machine Screw,
Non-Structural



Free Ground
Shipping!



Thread Size	Length	CARBON STEEL		CORROSION RESISTANT
		MS24693	AN507	MS24693
4-40	3/16	S1	440R3	C1
	1/4	S2	440R4	C2
	5/16	S3	440R5	C3
	3/8	S4	440R6	C4
	7/16	S5	440R7	C5
	1/2	S6	440R8	C6
	5/8	S7	440R10	C7
	3/4	S8	440R12	C8
	7/8	S9	440R14	C9
	1	S10	440R16	C10
6-32	3/16	S23	632R3	C23
	1/4	S24	632R4	C24
	5/16	S25	632R5	C25
	3/8	S26	632R6	C26
	7/16	S27	632R7	C27
	1/2	S28	632R8	C28
	5/8	S29	632R10	C29
	3/4	S30	632R12	C30
	7/8	S31	632R14	C31
	1	S32	632R16	C32
	1-1/8	S33	632R18	C33
	1-1/4	S34	632R20	C34
	1-1/2	S36	632R24	---
	1/4	S46	832R4	C46
	5/16	S47	832R5	C47
	3/8	S48	832R6	C48
	7/16	S49	832R7	C49
	1/2	S50	832R8	C50
	5/8	S51	832R10	C51
8-32	3/4	S52	832R12	C52
	7/8	S53	832R14	C53
	1	S54	832R16	C54
	1-1/8	S55	832R18	C55
	1-1/4	S56	832R20	C56
	1-1/2	S58	832R24	C58
	1/4	S268	1032R4	C268
	5/16	S269	1032R5	C269
	3/8	S270	1032R6	C270
	7/16	S271	1032R7	C271
10-32	1/2	S272	1032R8	C272
	9/16	---	1032R9	---
	5/8	S273	1032R10	C273
	3/4	S274	1032R12	C274
	7/8	S275	1032R14	C275
	1	S276	1032R16	C276
	1-1/8	S277	1032R18	C277
	1-1/4	S278	1032R20	C278
	1-1/2	S280	1032R24	C280
	1-5/8	S281	1032R26	C281
	1-3/4	S282	1032R28	C282
	2	S284	1032R32	C284
	2-1/2	S286	1032R40	C286

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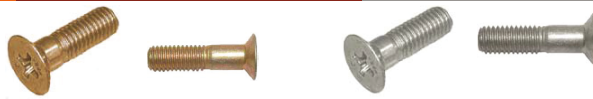
Order Toll Free: 1-866-842-7772

How can we help?

MS24694 (AN509)

100° Flat Head Screw

Structural Machine Screw



SHEET METAL SCREW

Truss Head, Flat Head 82

& Pan Head, Phillips (Per 100)



Thread Size	Length	Grip	CARBON STEEL		CORROSION RESISTANT
			MS24694	AN509	MS24694
8-32	9/32	3/32	S1	8R4	C1
	11/32	3/32	S2	8R5	C2
	13/32	3/32	S3	8R6	C3
	15/32	3/32	S4	8R7	C4
	17/32	3/32	S5	8R8	C5
	19/32	5/32	S6	8R9	C6
	21/32	7/32	S7	8R10	C7
	23/32	9/32	S8	8R11	C8
	25/32	11/32	S9	8R12	C9
	27/32	13/32	S10	8R13	C10
	29/32	15/32	S11	8R14	C11
	31/32	17/32	S12	8R15	C12
	1 - 1/32	19/32	S13	8R16	C13
	1 - 3/32	21/32	S14	8R17	C14
	1 - 5/32	23/32	S15	8R18	C15
	1 - 7/32	25/32	S16	8R19	C16
	1 - 9/32	27/32	S17	8R20	C17
	1 - 11/32	29/32	S18	8R21	C18
	1 - 13/32	31/32	S19	8R22	C19
	1 - 15/32	1 - 1/32	S20	8R23	C20
10-32	9/32	7/64	S46	10R4	C46
	11/32	7/64	S47	10R5	C47
	13/32	7/64	S48	10R6	C48
	15/32	7/64	S49	10R7	C49
	17/32	7/64	S50	10R8	C50
	19/32	7/64	S51	10R9	C51
	21/32	3/16	S52	10R10	C52
	23/32	1/4	S53	10R11	C53
	25/32	5/16	S54	10R12	C54
	27/32	3/8	S55	10R13	C55
	29/32	7/16	S56	10R14	C56
	31/32	1/2	S57	10R15	C57
	1 - 1/32	9/16	S58	10R16	C58
	1 - 3/32	5/8	S59	10R17	C59
	1 - 5/32	11/16	S60	10R18	C60
	1 - 7/32	3/4	S61	10R19	C61
	1 - 9/32	13/16	S62	10R20	C62
	1 - 11/32	7/8	S63	10R21	C63
	1 - 13/32	15/16	S64	10R22	C64
	1 - 15/32	1	S65	10R23	C65
	1 - 17/32	1 - 1/16	S66	10R24	C66
	1 - 19/32	1 - 1/8	S67	10R25	C67
	1 - 21/32	1 - 3/16	S68	10R26	C68
	1 - 23/32	1 - 1/4	S69	10R27	C69
	1 - 25/32	1 - 5/16	S70	10R28	C70
	1 - 27/32	1 - 3/8	S71	10R29	---
	1 - 29/32	1 - 7/16	S72	10R30	---
	2 - 1/32	1 - 9/16	S74	10R32	---
	2 - 5/32	1 - 11/16	S76	10R34	---
	2 - 9/32	1 - 13/16	S78	10R36	---
	2 - 11/32	1 - 7/8	S79	10R37	---
	2 - 13/32	1 - 15/16	S80	10R38	---
1/4-28	17/32	9/64	S95	416R8	C95
	19/32	9/64	S96	416R9	---
	21/32	9/64	S97	416R10	C97
	23/32	3/16	S98	416R11	C98
	25/32	1/4	S99	416R12	C99
	27/32	5/16	S100	416R13	C100
	29/32	3/8	S101	416R14	C101
	31/32	7/16	S102	416R15	C102
	1 - 1/32	1/2	S103	416R16	---
	1 - 3/32	9/16	S104	416R17	---
	1 - 5/32	5/8	S105	416R18	---
	1 - 7/32	11/16	S106	416R19	---
	1 - 9/32	3/4	S107	416R20	---
	1 - 11/32	13/16	S108	416R21	---
	1 - 13/32	7/8	S109	416R22	---
	1 - 15/32	15/16	S110	416R23	---
	1 - 17/32	1	S111	416R24	---
	1 - 19/32	1 - 1/16	S112	416R25	---
	1 - 21/32	1 - 1/8	S113	416R26	---
	1 - 23/32	1 - 3/16	S114	416R27	---
	1 - 25/32	1 - 1/4	S115	416R28	---
	1 - 29/32	1 - 3/8	S117	416R30	---
	1 - 31/32	1 - 7/16	S118	416R31	---
	2 - 1/32	1 - 1/2	S119	416R32	---

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CAMLOC 2600 Series

Protruding Head Stainless Steel

MONADNOCK

Slotted 1126007-#

Phillips 1126008-#

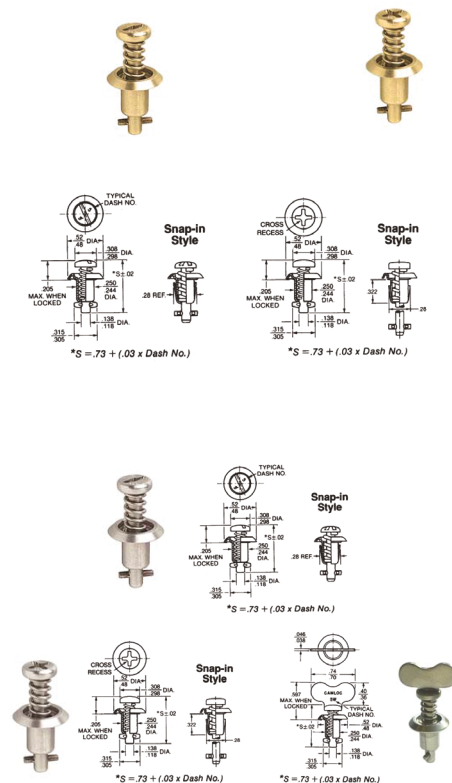
Winged 1126014-#

Total Panel Thickness Using 212-12 Receptacle	STAINLESS STEEL		
	Slotted	Phillips	Winged
.030-.059	2600-15	---	2600-1SW
.060-.089	2600-25	26551-2	2600-2SW
.090-.119	2600-35	26551-3	2600-3SW
.120-.149	2600-45	26551-4	2600-4SW
.150-.179	2600-55	26551-5	2600-5SW
.180-.209	2600-65	26551-6	2600-6SW
.210-.239	2600-75	26551-7	2600-7SW
.240-.269	2600-85	26551-8	2600-8SW

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Order Toll Free: 1-866-842-7772

How can we help?



AN525

Washer Head Screw
Structural, Alloy Steel



Thread	Length	Grip	AN525
8-32	5/16	1/32	832R5
	3/8	1/32	832R6
	7/16	1/16	832R7
	1/2	1/8	832R8
	9/16	5/32	832R9
	5/8	7/32	832R10
	11/16	9/32	832R11
	3/4	11/32	832R12
	7/8	15/32	832R14
	1	19/32	832R16
	1 - 1/8	23/32	832R18
	1 - 1/4	27/32	832R20
	1 - 3/8	31/32	832R22
	1 - 1/2	1-3/32	832R24
	1 - 5/8	1-7/32	832R26
10-32	1/4	1/32	10R4
	5/16	1/32	10R5
	3/8	1/32	10R6
	7/16	1/16	10R7
	1/2	1/8	10R8
	9/16	5/32	10R9
	5/8	7/32	10R10
	11/16	9/32	10R11
	3/4	11/32	10R12
	7/8	15/32	10R14
	1	19/32	10R16
	1 - 1/8	23/32	10R18
	1 - 1/4	27/32	10R20
	1 - 3/8	31/32	10R22
	1 - 1/2	1-3/32	10R24
1/4-28	1 - 5/8	1-7/32	10R26
	1 - 3/4	1-11/32	10R28
	7/16	1/16	416R7
	1/2	1/8	416R8
	9/16	5/32	416R9
	5/8	7/32	416R10
	3/4	11/32	416R12
	7/8	15/32	416R14
	1	19/32	416R16
	1 - 1/4	27/32	416R20
	1 - 1/2	1-3/32	416R24

AN565

Set Screws, Hex Socket Head
Length in 1/16 of an inch
Add Point Style Type after Base #
"A" after Base # for Flat Point
"D" after Base # for Cup Point



4-40 Dia. AN565	6-32 Dia. AN565	8-32 Dia. AN565	10-32 Dia. AN565
A4H2	A6H3	A8H2	A1032H4
A4H3	A6H4	A8H3	A1032H5
A4H4	A6H5	A8H4	A1032H6
A4H5	A6H6	A8H5	D1032H4
D4H2	D6H2	A8H6	D1032H5
D4H3	D6H3	D8H3	D1032H6
D4H4	D6H4	D8H4	D1032H8
D4H5	D6H5	D8H6	D1032H9

AN526

Truss Head
Machine Screw
Non-Structural



Thread	Length	Carbon Steel	Corrosion Resistant
		AN526	AN526
4-40	3/8	440R6	C440R6
	1/2	440R8	C440R8
	1/4	632R4	C632R4
	5/16	632R5	C632R5
6-32	3/8	632R6	C632R6
	7/16	632R7	C632R7
	1/2	632R8	C632R8
	9/16	632R9	---
	5/8	632R10	C632R10
	3/4	632R12	C632R12
	7/8	632R14	C632R14
	1	632R16	C632R16
	1 - 1/4	632R20	---
	1/4	832R4	C832R4
8-32	5/16	832R5	C832R5
	3/8	832R6	C832R6
	7/16	832R7	C832R7
	1/2	832R8	C832R8
	9/16	832R9	C832R9
	5/8	832R10	C832R10
	3/4	832R12	C832R12
	7/8	832R14	C832R14
	1	832R16	C832R16
	1 - 1/8	832R18	---
	1 - 1/4	832R20	C832R20
	1 - 1/2	832R24	---
	1/4	1032R4	C1032R4
	5/16	1032R5	C1032R5
10-32	3/8	1032R6	C1032R6
	7/16	1032R7	C1032R7
	1/2	1032R8	C1032R8
	9/16	1032R9	C1032R9
	5/8	1032R10	C1032R10
	3/4	1032R12	C1032R12
	7/8	1032R14	C1032R14
	1	1032R16	C1032R16
	1 - 1/4	1032R20	C1032R20
	1 - 3/8	1032R22	---
	1 - 1/2	1032R24	---
	2	1032R32	---

NAS517

Close Tolerance
100° Flat Head Screw



Thread	Length	Grip	NAS517
.1640-32	.406	---	2-0
	.469	---	2-1
	.531	.125	2-2
	.594	.188	2-3
	.656	.250	2-4
	.719	.312	2-5
	.781	.375	2-6
	.844	.438	2-7
	.906	.500	2-8
	1.031	.625	2-10
	1.093	.688	2-11
	1.156	.750	2-12
	1.219	.812	2-13
	1.281	.875	2-14
.1900-32	1.343	.938	2-15
	1.406	1.000	2-16
	.343	---	3-00
	.406	---	3-0
	.469	---	3-1
	.531	.125	3-2
	.594	.188	3-3
	.656	.250	3-4
	.719	.312	3-5
	.781	.375	3-6
	.844	.438	3-7
	.906	.500	3-8
	.969	.562	3-9
	1.031	.625	3-10
	1.093	.688	3-11
	1.156	.750	3-12
	1.219	.812	3-13
	1.281	.875	3-14
	1.343	.938	3-15
	1.406	1.000	3-16
	1.531	1.125	3-18
	1.656	1.250	3-20
	1.781	1.375	3-22
	1.906	1.500	3-24

Thread	Length	Grip	NAS517
.2500-28	2.031	1.625	3-26
	.531	---	4-0
	.594	.125	4-2
	.656	.188	4-3
	.719	.250	4-4
	.781	.312	4-5
	.844	.375	4-6
	.906	.438	4-7
	.969	.500	4-8
	1.031	.562	4-9
	1.093	.625	4-10
	1.156	.688	4-11
	1.219	.750	4-12
	1.281	.812	4-13
.3125-24	1.343	.875	4-14
	1.468	1.000	4-16
	.781	.250	5-4
	.844	.312	5-5
	.906	.375	5-6
	.969	.438	5-7
	1.031	.500	5-8
	1.093	.562	5-9
	1.156	.625	5-10
	1.219	.688	5-11
	1.281	.750	5-12
	1.531	1.000	5-16

Free Ground Shipping!



NAS1801

Hex Head Screw
Full Thread, Cruciform Recess
Alloy Steel



Length	4-40 Dia. NAS1801	6-32 Dia. NAS1801	8-32 Dia. NAS1801	10-32 Dia. NAS1801
.250	-04-4	-06-4	-08-4	-3-4
.312	-04-5	-06-5	-08-5	-3-5
.375	-04-6	-06-6	-08-6	-3-6
.437	-04-7	-06-7	-08-7	-3-7
.500	-04-8	-06-8	-08-8	-3-8
.563	-04-9	-06-9	-08-9	-3-9
.625	-04-10	-06-10	-08-10	-3-10
.750	-04-12	-06-12	-08-12	-3-12
.875	---	---	-08-14	-3-14
1.00	-04-16	---	-08-16	-3-16
1.12	---	---	-08-18	-3-18
1.25	---	---	-08-20	-3-20
1.375	---	---	-08-22	-3-22
1.50	---	---	-08-24	-3-24
1.625	---	---	---	-3-26
1.75	---	---	---	-3-28
1.875	---	---	---	-3-30

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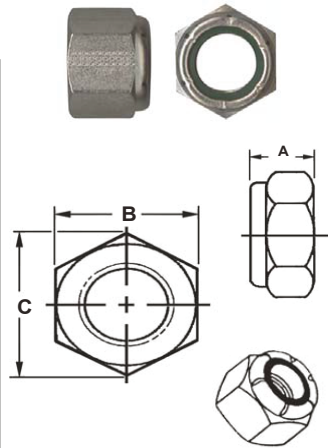
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How can we help?

MS21044

Self Locking Nut, Regular Height, Nylon Insert, 250° F

MS21044 NON-METALLIC INSERT			THREAD MIL-S-8879	A		B		C
AL ALLOY	STEEL	CRES		MAX	MIN	MAX	MIN	
D04	N04	C04	.1120-40	.157	.133	.251	.243	.268
D06	N06	C06	.1380-32	.188	.160	.313	.305	.339
D08	N08	C08	.1640-32	.281	.219	.345	.336	.374
D3	N3	C3	.1900-32	.281	.208	.376	.367	.410
D4	N4	C4	.2500-28	.360	.240	.439	.430	.482
D5	N5	C5	.3125-24	.360	.271	.502	.492	.552
D6	N6	C6	.3750-24	.469	.318	.564	.553	.622
D7	N7	C7	.4375-20	.469	.435	.690	.679	.766
D8	N8	C8	.5000-20	.610	.575	.752	.741	.837
D9	N9	C9	.5625-18	.704	.623	.877	.865	.978
D10	N10	C10	.6250-18	.766	.732	.940	.928	1.051



Thread Size	CARBON STEEL		CORROSION RESISTANT		ALUMINUM
	MS21044	MS20365	MS21044	MS21044	
4-40	N04	440A	C04	C04	D04
6-32	N06	632A	C06	C06	D06
8-32	N08	832A	C08	C08	D08
10-32	N3	1032A	C3	C3	D3
1/4-28	N4	428A	C4	C4	D4
5/16-24	N5	524A	C5	C5	D5
3/8-24	N6	624A	C6	C6	D6
7/16-20	N7	720A	C7	C7	D7
1/2-20	N8	820A	C8	C8	D8
9/16-18	N9	918A	---	---	---
5/8-18	N10	1018A	---	---	---

MS21042

Self Locking Nut, Reduced Hexagon, Reduced Height
Non-Corrosion Resistant Steel 450°

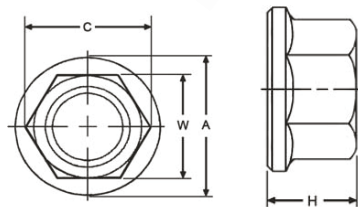
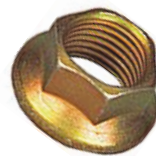
SIZE DASH NO.	THREAD	A MAX DIA	C MIN	H		W ACROSS FLATS	
				MAX	MIN	MAX	MIN
-02	.0860-56	.167	.138	.100	.080	.127	.122
-04	.1120-40	.206	.171	.125	.103	.158	.150
-06	.1380-32	.244	.207	.141	.115	.190	.181
-08	.1640-32	.290	.244	.188	.125	.221	.213
-3	.1900-32	.330	.277	.188	.154	.252	.243
-4	.2500-28	.420	.347	.219	.204	.316	.304
-5	.3125-24	.520	.419	.266	.251	.378	.367
-6	.3750-24	.620	.491	.282	.267	.440	.430

Thread Size	with Dry Film Lube	without Dry Film Lube
	MS21042	MS21042
2-56	L02	-02
4-40	L04	-04
6-32	L06	-06
8-32	L08	-08
10-32	L3	-3
1/4-28	L4	-4
5/16-24	L5	-5
3/8-24	L6	-6

With Dry Film Lube



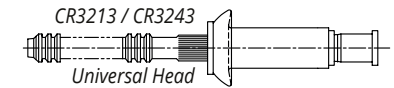
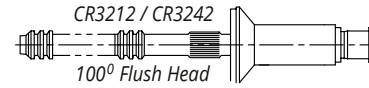
Without Dry Film Lube



CHERRYMAX RIVET

CR3212, CR3213
CR3242, CR3243

Alloy Steel Stem
Aluminum Rivet



Diameter	Grip Range	CR3212	Diameter	Grip Range	CR3213
1/8	.025 - .062	---	1/8	.025 - .062	4-01
	.063 - .125	4-02		.063 - .125	4-02
	.126 - .187	4-03		.126 - .187	4-03
	.188 - .250	4-04		.188 - .250	4-04
	.251 - .312	4-05		.251 - .312	4-05
	.313 - .375	4-06		.313 - .375	4-06
	.376 - .437	4-07		.376 - .437	4-07
	.438 - .500	4-08		.438 - .500	4-08
	.501 - .562	4-09		.501 - .562	4-09
	.563 - .625	---		.563 - .625	5-01
5/32	.063 - .125	5-02	5/32	.063 - .125	5-02
	.126 - .187	5-03		.126 - .187	5-03
	.188 - .250	5-04		.188 - .250	5-04
	.251 - .312	5-05		.251 - .312	5-05
	.313 - .375	5-06		.313 - .375	5-06
	.376 - .437	5-07		.376 - .437	5-07
	.438 - .500	5-08		.438 - .500	5-08
	.501 - .562	5-09		.501 - .562	5-09
	.563 - .625	5-10		.563 - .625	5-10
	.626 - .687	---		.626 - .687	6-01
3/16	.063 - .125	6-02	3/16	.063 - .125	6-02
	.126 - .187	6-03		.126 - .187	6-03
	.188 - .250	6-04		.188 - .250	6-04
	.251 - .312	6-05		.251 - .312	6-05
	.313 - .375	6-06		.313 - .375	6-06
	.376 - .437	6-07		.376 - .437	6-07
	.438 - .500	6-08		.438 - .500	6-08
	.501 - .562	6-09		.501 - .562	6-09
	.563 - .625	6-10		.563 - .625	6-11
	.626 - .687	6-11		.626 - .687	6-12
Diameter	Grip Range	CR 3242	Diameter	Grip Range	CR 3243
.140	.025 - .062	4-01	.140	.025 - .062	4-01
	.063 - .125	4-02		.063 - .125	4-02
	.126 - .187	4-03		.126 - .187	4-03
	.188 - .250	4-04		.188 - .250	4-04
	.251 - .312	4-05		.251 - .312	4-05
	.313 - .375	4-06		.313 - .375	4-06
	.376 - .437	4-07		.376 - .437	4-07
	.438 - .500	4-08		.438 - .500	4-08
	.501 - .562	4-09		.501 - .562	4-09
	.563 - .625	---		.563 - .625	5-01
.173	.063 - .125	5-02	.173	.063 - .125	5-02
	.126 - .187	5-03		.126 - .187	5-03
	.188 - .250	5-04		.188 - .250	5-04
	.251 - .312	5-05		.251 - .312	5-05
	.313 - .375	5-06		.313 - .375	5-06
	.376 - .437	5-07		.376 - .437	5-07
	.438 - .500	5-08		.438 - .500	5-08
	.501 - .562	5-09		.501 - .562	5-09
	.563 - .625	---		.563 - .625	6-01
	.626 - .687	6-02		.626 - .687	6-02
.201	.063 - .125	6-03	.201	.063 - .125	6-03
	.126 - .187	6-04		.126 - .187	6-04
	.188 - .250	6-05		.188 - .250	6-05
	.251 - .312	6-06		.251 - .312	6-06
	.313 - .375	6-07		.313 - .375	6-07
	.376 - .437	6-08		.376 - .437	6-08
	.438 - .500	6-09		.438 - .500	6-09
	.501 - .562	---		.501 - .562	6-01
	.563 - .625	6-02		.563 - .625	6-02
	.626 - .687	6-03		.626 - .687	6-03

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Order Online: www.monroe aerospace.com

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How can we help?

NAS6604 Close Tolerance Bolt (.2500-28 Thread)

"D" Following Base # for Drilled Shank
"H" Following Base # for Drilled Head

Supersedes NAS1304 Series



NAS8702, NAS8703

100° Close Tolerance Bolt
Reduced Head, Phillips Recess
A-286 CRES, Short Thread, "U" Indicates Unplated
160 KSI Ultimate Tensile, 95 KSI Ultimate Shear



Description		NAS6604	NAS6604
Length	Grip ± .010	Undrilled	Drilled
.487	.062	1	D1
.550	.125	2	D2
.613	.188	3	D3
.675	.250	4	D4
.737	.312	5	D5
.800	.375	6	D6
.863	.438	7	D7
.925	.500	8	D8
.987	.562	9	D9
1.050	.625	10	D10
1.113	.688	11	D11
1.175	.750	12	D12
1.237	.812	13	D13
1.300	.875	14	D14
1.364	.938	15	D15
1.425	1.000	16	D16
1.487	1.062	17	D17
1.550	1.125	18	D18
1.613	1.188	19	D19
1.675	1.250	20	D20
1.737	1.312	21	D21
1.800	1.375	22	D22
1.863	1.438	23	D23
1.925	1.500	24	D24
1.987	1.562	25	D25
2.050	1.625	26	D26
2.113	1.688	27	D27
2.175	1.750	28	D28
2.237	1.812	29	D29
2.300	1.875	30	D30
2.363	1.938	31	D31
2.425	2.000	32	D32
2.550	2.125	34	D34
2.675	2.250	36	D36
2.800	2.375	38	D38

Dash #	Grip	Thread, Basic Part # & Length	
		.1640-32 NAS8702	.1900-32 NAS8703
2	.125	.448	.448
3	.188	.511	.511
4	.250	.573	.573
5	.312	.635	.635
6	.375	.698	.698
7	.438	.761	.761
8	.500	.823	.823
9	.562	.885	.885
11	.688	1.011	1.011
12	.750	1.073	1.073

AN4 AIRFRAME BOLT (1/4-28 Thread)

AN4-#A (Undrilled Shank)
AN4-# (Drilled Shank)



DESCRIPTION		AN4	AN4
Length	Grip	Undrilled	Drilled
15/32	1/16	3A	3
17/32	1/16	4A	4
21/32	3/16	5A	5
25/32	5/16	6A	6
29/32	7/16	7A	7
1 - 1/32	9/16	10A	10
1 - 5/32	11/16	11A	11
1 - 9/32	13/16	12A	12
1 - 13/32	15/16	13A	13
1 - 17/32	1 - 1/16	14A	14
1 - 21/32	1 - 3/16	15A	15
1 - 25/32	1 - 5/16	16A	16
1 - 29/32	1 - 7/16	17A	17
2 - 1/32	1 - 9/16	20A	20
2 - 5/32	1 - 11/16	21A	21
2 - 9/32	1 - 13/16	22A	22
2 - 13/32	1 - 15/16	23A	23
2 - 17/32	2 - 1/16	24A	24
2 - 21/32	2 - 3/16	25A	25
2 - 25/32	2 - 5/16	26A	26
2 - 29/32	2 - 7/16	27A	27
3 - 1/32	2 - 9/16	30A	30
3 - 5/32	2 - 11/16	31A	31
3 - 9/32	2 - 13/16	32A	32
3 - 13/32	2 - 15/16	33A	33
3 - 17/32	3 - 1/16	34A	34
3 - 21/32	3 - 3/16	35A	35
3 - 25/32	3 - 5/16	36A	36
3 - 29/32	3 - 7/16	37A	37
4 - 1/32	3 - 9/16	40A	40
4 - 5/32	3 - 11/16	41A	41
4 - 9/32	3 - 13/16	42A	42
4 - 13/32	3 - 15/16	43A	43
4 - 17/32	4 - 1/16	44A	44
4 - 21/32	4 - 3/16	45A	45
4 - 25/32	4 - 5/16	46A	46
4 - 29/32	4 - 7/16	47A	47
5 - 1/32	4 - 9/16	50A	50
5 - 5/32	4 - 11/16	51A	51
5 - 9/32	4 - 13/16	52A	52
5 - 13/32	4 - 15/16	53A	53
5 - 17/32	5 - 1/16	54A	54
5 - 21/32	5 - 3/16	55A	55
5 - 25/32	5 - 5/16	56A	56
5 - 29/32	5 - 7/16	57A	57
6 - 1/32	5 - 9/16	60A	60
6 - 5/32	5 - 11/16	61A	61
6 - 9/32	5 - 13/16	62A	62

AN3 AIRFRAME BOLT (10 - 32 Thread)

AN3-#A (Undrilled Shank)
AN3-# (Drilled Shank)



DESCRIPTION		AN3 -	AN3 -
Length	Grip	Undrilled	Drilled
15/32	1/16	3A	3
17/32	1/8	4A	4
21/32	1/4	5A	5
25/32	3/8	6A	6
29/32	1/2	7A	7
1 - 1/32	5/8	10A	10
1 - 5/32	3/4	11A	11
1 - 9/32	7/8	12A	12
1 - 13/32	1	13A	13
1 - 17/32	1 - 1/8	14A	14
1 - 21/32	1 - 1/4	15A	15
1 - 25/32	1 - 3/8	16A	16
1 - 29/32	1 - 1/2	17A	17
2 - 1/32	1 - 5/8	20A	20
2 - 5/32	1 - 3/4	21A	21
2 - 9/32	1 - 7/8	22A	22
2 - 13/32	2	23A	23
2 - 17/32	2 - 1/8	24A	24
2 - 21/32	2 - 1/4	25A	25
2 - 25/32	2 - 3/8	26A	26
2 - 29/32	2 - 1/2	27A	27
3 - 1/32	2 - 5/8	30A	30
3 - 5/32	2 - 3/4	31A	31
3 - 9/32	2 - 7/8	32A	32
3 - 13/32	3	33A	33
3 - 17/32	3 - 1/8	34A	34
3 - 21/32	3 - 1/4	35A	35
3 - 25/32	3 - 3/8	36A	36
3 - 29/32	3 - 1/2	37A	37
4 - 1/32	3 - 5/8	40A	40
4 - 5/32	3 - 3/4	41A	41
4 - 9/32	3 - 7/8	42A	42
4 - 13/32	4	43A	43
4 - 17/32	4 - 1/8	44A	44
4 - 21/32	4 - 1/4	45A	45

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How can we help?

POP RIVETS

Non-Structural,
Commercial Grade, Domed



Aluminum Rivet / Aluminum Mandrel - SMALL FLANGE

Diameter	Grip Range	POP	Marson
3/32	.032-.125	AD32ABS	AB3-2A
	.126-.250	AD34ABS	AB3-4A
1/8	.063-.125	AD42ABS	AB4-2A
	.126-.187	AD43ABS	AB4-3A
	.188-.250	AD44ABS	AB4-4A
	.251-.312	AD45ABS	AB4-5A
	.313-.375	AD46ABS	AB4-6A
	.376-.437	AD47ABS	AB4-7A
5/32	.062-.125	AD52ABS	AB5-2A
	.126-.187	AD53ABS	AB5-3A
	.188-.250	AD54ABS	AB5-4A

Aluminum Rivet / Aluminum Mandrel - LARGE FLANGE

Diameter	Grip Range	POP	Marson
1/8	.032-.125	AD42ABSLF	ABL4-2A
	.126-.187	AD43ABSLF	ABL4-3A
	.188-.250	AD44ABSLF	ABL4-4A
5/32	.188-.250	AD54ABSLF	ABL5-4A

Aluminum Rivet / Steel Mandrel - SMALL FLANGE

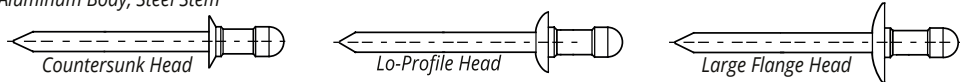
Diameter	Grip Range	POP	Marson
3/32	.032-.125	AD32BS	AB3-2
	.126-.250	AD34BS	AB3-4
1/8	.063-.125	AD42BS	AB4-2
	.126-.187	AD43BS	AB4-3
	.188-.250	AD44BS	AB4-4
	.251-.312	AD45BS	AB4-5
	.313-.375	AD46BS	AB4-6
	.376-.437	AD47BS	AB4-7
5/32	.062-.125	AD52BS	AB5-2
	.126-.187	AD53BS	AB5-3
	.188-.250	AD54BS	AB5-4

Aluminum Rivet / Steel Mandrel - LARGE FLANGE

Diameter	Grip Range	POP	Marson
1/8	.032-.125	AD42BSLF	ABL4-2
	.126-.187	AD43BSLF	ABL4-3
	.188-.250	AD44BSLF	ABL4-4
	.313-.375	AD46BSLF	ABL4-6
5/32	.188-.250	AD54BSLF	ABL5-4

AVEX RIVETS

Non-Structural,
Aluminum Body, Steel Stem



Diameter	Grip Range	Part#	Rivet Style
1/8	.046-.250	1604-0412	Countersunk Flange
		1691-0410 New Rev. 1661-0410 Old Rev.	Low Profile Head
	.031-.187	1692-0410 New Rev. 1641-0410 Old Rev.	Large Flange
		1693-0410 Old Rev.	Small Flange
5/32	.125-.312	1692-0414 1661-0512	Low Profile Head
1/8	.031-.187	1601-0410 New Rev. 1693-0410 Old Rev.	Small Flange
5/32	.125-.312	1693-0414 1693-0512	Small Flange

COTTER PIN MS24665

(AN380, AN381)



Diameter	Length	CARBON STEEL		CORROSION RESISTANT STEEL	
		MS24665	AN380	MS24665	AN381
1/32	---	---	---	18	1-4
	1/2"	5	1-2	22	1-8
	3/4"	7	1-3	24	1-12
	1"	9	1-4	26	1-16
	1-1/4"	10	1-5	27	1-20
	1-1/2"	---	1-6	28	1-24
3/64	1/4"	65	---	82	---
	1/2"	69	---	86	15-8
	3/4"	71	---	88	15-12
	1"	73	---	90	15-16
1/16	1/4"	---	---	1011	2-5
	3/8"	---	2-1	1012	2-6
	7/16"	---	---	1013	2-7
	1/2"	132	2-2	151	2-8
	3/4"	134	2-3	153	2-12
	1"	136	2-4	155	2-16
	1-1/4"	138	2-5	157	2-20
	1-1/2"	140	2-6	159	2-24
	1-3/4"	142	2-7	161	2-28
	2"	143	2-8	162	2-32
	2-1/2"	144	2-10	163	2-40
	3"	145	2-12	164	2-48
5/64	1/2"	208	---	227	25-8
	3/4"	210	---	229	25-12
	1"	212	---	231	25-16
	1-1/4"	214	---	233	25-20
	1-1/2"	216	---	235	25-24
	1-3/4"	218	---	237	25-28
3/32	2"	219	---	238	25-32
	1/2"	281	3-2	298	3-8
	3/4"	283	3-3	300	3-12
	1"	285	3-4	302	3-16
	1-1/4"	287	3-5	304	3-20
	1-1/2"	289	3-6	306	3-24
	1-3/4"	291	3-7	308	3-28
	2"	292	3-8	309	3-32
	2-1/4"	293	3-9	310	3-36
	2-1/2"	294	3-10	311	3-40
	3"	295	3-12	312	3-48
	1/2"	349	4-2	366	4-8
1/8	3/4"	351	4-3	368	4-12
	1"	353	4-4	370	4-16
	1-1/4"	355	4-5	372	4-20
	1-1/2"	357	4-6	374	4-24
	1-3/4"	359	4-7	376	4-28
	2"	360	4-8	377	4-32
	2-1/4"	361	---	378	4-36
	2-1/2"	362	4-10	379	4-40
	3"	363	4-12	380	4-48
	1-1/4"	421	5-5	439	5-20
	1-1/2"	423	5-6	441	5-24
	1-3/4"	425	5-7	443	5-28
5/32	2"	426	5-8	444	5-32
	2-1/2"	428	5-10	446	5-40
	2-3/4"	429	5-11	447	5-44
	3"	430	5-12	448	5-48
	3-1/2"	431	5-14	449	5-56
	4"	432	5-16	450	5-64

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How can we help?

MS21919WDG CLAMP

Aluminum Band,
Chloroprene Cushion (212°F)



To Fit Diameter	MS21919WDG	To Fit Diameter	MS21919WDG
1/8	2	1-5/16	21
3/16	3	1-3/8	22
1/4	4	1-7/16	23
5/16	5	1-1/2	24
3/8	6	1-9/16	25
7/16	7	1-5/8	26
1/2	8	1-11/16	27
9/16	9	1-3/4	28
5/8	10	1-13/16	29
11/16	11	1-7/8	30
3/4	12	2	32
13/16	13	2-1/8	34
7/8	14	2-3/16	35
15/16	15	2-1/4	36
1	16	2-3/8	38
1-1/16	17	2-1/2	40
1-1/8	18	2-21/32	42
1-3/16	19	2-3/4	44
1-1/4	20	3	48

MS21919WH

Steel Band,
White Silicone Cushion
(400°F)



Dia.	MS21919WH	Dia.	MS21919WH
1/8	2	11/16	11
3/16	3	3/4	12
1/4	4	13/16	13
5/16	5	7/8	14
3/8	6	15/16	15
7/16	7	1	16
1/2	8	1-11/16	17
9/16	9	1-1/8	18
5/8	10	1-1/4	20

MS21919WCH

Corrosion Resistant Band,
White Silicone Cushion (400°F)



Dia.	MS21919WCH	Dia.	MS21919WCH
1/8	2	3/4	12
3/16	3	13/16	13
1/4	4	7/8	14
5/16	5	15/16	15
3/8	6	1	16
7/16	7	1-1/16	17
1/2	8	1-1/8	18
9/16	9	1-1/4	20
5/8	10	1-3/8	22
11/16	11	1-1/2	24

MS21919WCJ

Corrosion Resistant Band,
Fluorosilicone Cushion
(450°F)



To Fit Dia.	MS21919WCJ
1/8	2
3/16	3
1/4	4
5/16	5
3/8	6
7/16	7
1/2	8
9/16	9
5/8	10
11/16	11
3/4	12

MS21919WDF

Aluminum Band,
Nitrile Cushion
(212°F)



To Fit Dia.	MS21919WDF
1/8	2
3/16	3
1/4	4
5/16	5
3/8	6
7/16	7
1/2	8
5/8	10
3/4	12

MS21209

Helicoil Insert

"C" indicates Coarse Thread

"F" indicates Fine Thread

"L" indicates Dry Film Lube

"P" indicates Cadmium Plating



Coarse Thread Size	Length	MS21209	Length	MS21209	Length	MS21209	Length	MS21209
.086-56	.086	C0210	.129	C0215	.172	C0220	.215	C0225
.112-40	.112	C0410	.168	C0415	.224	C0420	.280	C0425
		C0410L		C0415L		C0420L		C0425L
		C0410P		C0415P		C0420P		C0425P
.138-32	.138	C0610	.207	C0615	.276	C0620	.345	C0625
		C0610L		C0615L		C0620L		C0625L
		C0610P		C0615P		C0620P		C0625P
.164-32	.164	C0810	.246	C0815	.328	C0820	.410	C0825
		C0810L		C0815L		C0820L		C0825L
		C0810P		C0815P		C0820P		C0825P
.190-24	.190	C1-10	.285	C1-15	.380	C1-20	.475	C1-25
.250-20	.250	C4-10	.375	C4-15	.500	C4-20	.625	C4-25

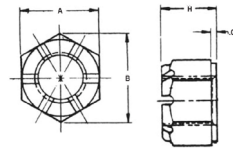
Fine Thread Size	Length	MS21209	Length	MS21209	Length	MS21209	Length	MS21209
.138-40	.138	F0610	.207	F0615	.276	F0620	.345	F0625
.164-36	.164	F0810	.246	F0815	.328	F0820	.410	F0825
.190-32	.190	F1-10	.285	F1-15	.380	F1-20	.475	F1-25
		F1-10L		F1-15L		F1-20L		F1-25L
		F1-10P		F1-15P		F1-20P		F1-25P
.250-28	.250	F4-10	.375	F4-15	.500	F4-20	.625	F4-25
		F4-10L		F4-15L		F4-20L		F4-25L
		F4-10P		F4-15P		F4-20P		F4-25P
.3125-24	.312	F5-10	.469	F5-15	.625	F5-20	.781	F5-25
.375-24	.375	F6-10	.562	F6-15	.750	F6-20	.938	F6-25

AN310

Castellated Nut

AN310	THREAD T	ULTIMATE TENSILE STRENGTH MIN LBS. STEEL	A + .002 - .010	B	H
AN310-3	10-32	2,210	.375	7/16	1/4
AN310-4	1/4-28	4,080	.438	1/2	9/32
AN310-5	5/16-24	6,500	.500	37/64	21/64
AN310-6	3/8-24	10,100	.563	21/32	13/32
AN310-7	7/16-20	13,600	.625	23/32	29/64
AN310-8	1/2-20	18,500	.750	7/8	9/16
AN310-9	9/16-18	23,600	.875	1-1/64	39/64
AN310-10	5/8-18	30,100	1.000	1-5/32	23/32

Thread Size	CARBON STEEL AN310	CORROSION RESISTANT AN310
10-32	3	C3
1/4-28	4	C4
5/16-24	5	C5
3/8-24	6	C6
7/16-20	7	C7
1/2-20	8	C8
9/16-18	9	C9
5/8-18	10	C10



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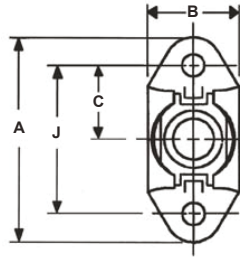
How can we help?

MS21059 - TWO LUG, LOW HEIGHT, FLOATING NUTPLATE

"K" After Dash # Indicates Countersunk Riveting Holes

MS21059 is available without Dry Film Lube

MS21060 - Two Lug, Low Height, Floating Corrosion Resistant

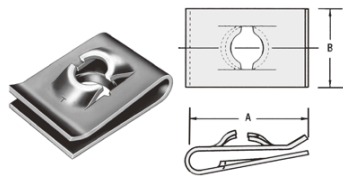


Thread Size	A Max	B Max	C Max	J Max	Height Max	with Dry Film Lube MS21059
4-40	.948	.416	.344	.688	.175	L04
6-32	.948	.416	.344	.688	.203	L06
6-32	.948	.416	.344	.688	.203	L06K
8-32	.948	.416	.344	.688	.250	L08
8-32	.948	.416	.344	.688	.250	L08K
10-32	.948	.416	.344	.688	.250	L3
10-32	.948	.416	.344	.688	.250	L3K
1/4-28	1.292	.516	.500	1.00	.281	L4
1/4-28	1.292	.516	.500	1.00	.281	L4K
5/16-24	1.292	.609	.500	1.00	.328	L5
3/8-24	1.292	.680	.500	1.00	.344	L6

TINNERMAN NUT

"U" Type (Pre-packaged bags quantity of 50)

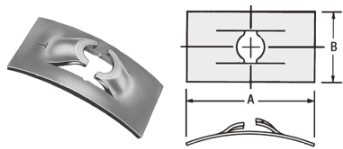
Tinnerman Part #	Screw Size	For Your Reference Only	A Length	B Width
A1784-6Z1D	#6	NAS395-6	.610	.440
A1785-6Z1D	#6	NAS395-7	.840	.440
A1786-8Z1D	#8	NAS395-12	.530	.500
D1274-8-1	#8	NAS395-14	.500	.500
A1789-8Z1D	#8	NAS395-16	.610	.440
A1348-8Z1D	#8	NAS395-17	.730	.500
A1787-8Z1D	#8	NAS395-18	.840	.440
A1788-8Z1D	#8	---	.840	.440
A1758-10Z1D	#10	NAS395-24	.620	.440
A1787-10Z1D	#10	---	.840	.440
A1932-8Z1D	#8	---	.580	.500



TINNERMAN NUT

"Flat" Type (Pre-packaged bags quantity of 50)

Tinnerman Part #	Screw Size	For Your Reference Only	A Length	B Width
A1776-4Z1D	#4	NAS446-1	.500	.312
A1777-6Z1D	#6	---	.630	.437
A1778-8Z1D	#8	NAS446-4	.625	.437
A1779-10Z1D	#10	NAS446-5	.875	.500



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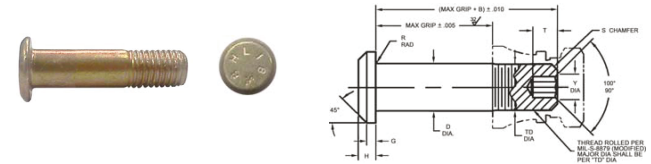
HL18 HI-LOK

Protruding Shear Head

95,000 PSI Shear MIN

160,000 - 180,000 PSI,

Tensile Strength, Alloy Steel



First Dash #	Nom. Dia.	A Dia.	B Ref.	D Dia.	TD Dia.	G Ref.	H	Thread	Double Shear Pounds Min.	Tension Pounds Min.
-5	5/32	.262 .242	.312	.1635 .1625	.1595 .1570	.020	.047 .037	8-32UNJC-3A Modified	4,010	1,940
-6	3/16	.315 .295	.325	.1895 .1885	.1840 .1810	.025	.055 .045	10-32UNJF-3A Modified	5,380	2,500
-8	1/4	.412 .387	.395	.2495 .2485	.2440 .2410	.030	.069 .059	1/4-28UNJF-3A Modified	9,300	4,300
Max Grip		8-32 Thread 5/32 Nominal Diameter HL18PB5-#			10-32 Thread 3/16 Nominal Diameter HL18PB6-#			1/4-28 Thread 1/4 Nominal Diameter HL18PB8-#		
1/8		HL18PB5-2			HL18PB6-2			HL18PB8-2		
3/16		HL18PB5-3			HL18PB6-3			HL18PB8-3		
1/4		HL18PB5-4			HL18PB6-4			HL18PB8-4		
5/16		HL18PB5-5			HL18PB6-5			HL18PB8-5		
3/8		HL18PB5-6			HL18PB6-6			HL18PB8-6		
7/16		HL18PB5-7			HL18PB6-7			HL18PB8-7		
1/2		HL18PB5-8			HL18PB6-8			HL18PB8-8		
9/16		HL18PB5-9			HL18PB6-9			HL18PB8-9		
5/8		HL18PB5-10			HL18PB6-10			HL18PB8-10		
11/16		HL18PB5-11			HL18PB6-11			HL18PB8-11		
3/4		HL18PB5-12			HL18PB6-12			HL18PB8-12		
13/16		HL18PB5-13			HL18PB6-13			HL18PB8-13		
7/8		HL18PB5-14			HL18PB6-14			HL18PB8-14		
15/16		HL18PB5-15			HL18PB6-15			HL18PB8-15		
1		HL18PB5-16			HL18PB6-16			HL18PB8-16		

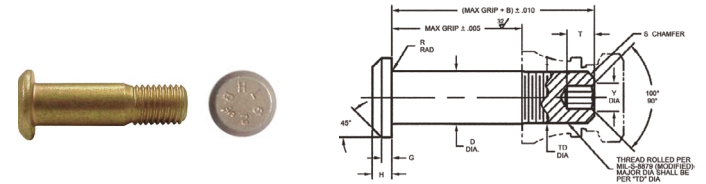
HL62 HI-LOK

Protruding Shear Head

1/64 Oversize for HL18 Alloy Steel

160,000 - 180,000

PSI Tensile Strength



First Dash #	Nom. Dia.	A Dia.	B Ref.	D Dia.	TD Dia.	G Ref.	H	R Dia.	Thread	Double Shear Pounds Min.	Tension Pounds Min.
-5									NOTE: Use HL18PB6		
-6	13/64	.315 .295	.325	.2026 .2016	.1840 .1810	.025	.055 .045	.025 .015	10-32UNJF-3A Modified	6,130	2,500
-8	17/64	.412 .387	.395	.2651 .2641	.2440 .2410	.030	.069 .059	.025 .015	1/4-28UNJF-3A Modified	10,490	4,300
Max Grip		10-32 Thread 13/64 Nominal Diameter HL62PB6-#			1/4-28 Thread 17/64 Nominal Diameter HL62PB8-#						
1/8		HL62PB6-2			HL62PB8-2						
3/16		HL62PB6-3			HL62PB8-3						
1/4		HL62PB6-4			HL62PB8-4						
5/16		HL62PB6-5			HL62PB8-5						
3/8		HL62PB6-6			HL62PB8-6						
7/16		HL62PB6-7			HL62PB8-7						
1/2		HL62PB6-8			HL62PB8-8						
9/16		HL62PB6-9			HL62PB8-9						
5/8		HL62PB6-10			HL62PB8-10						
11/16		HL62PB6-11			HL62PB8-11						
3/4		HL62PB6-12			HL62PB8-12						
13/16		HL62PB6-13			HL62PB8-13						
7/8		HL62PB6-14			HL62PB8-14						
15/16		HL62PB6-15			HL62PB8-15						
1		HL62PB6-16			HL62PB8-16						

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How can we help?

CAPPLUGS

CD SERIES

Threaded Plastic Caps
for Flared Fittings



CD Series	Tube Size	To Fit Thread
CD-3	3/16	3/8-24
CD-4	1/4	7/16-20
CD-5	5/16	1/2-20
CD-6	3/8	9/16-18
CD-8	1/2	3/4-16
CD-10	5/8	7/8-14
CD-12	3/4	1-1/16-12
CD-16	1	1-5/16-12

ASC SERIES

Aluminum Caps for
Threaded Flared Fittings



ASC Series	Tube Size	To Fit Thread
ASC-4	1/4	7/16-20
ASC-5	5/16	1/2-20
ASC-6	3/8	9/16-18
ASC-8	1/2	3/4-16
ASC-10	5/8	7/8-14
ASC-12	3/4	1-1/16-12
ASC-16	1	1-5/16-12

EC SERIES

Electric-Static-Free Caps
for Threaded Connector



EC Series	Will Cap Thread Size
EC-6	3/8
EC-8	1/2
EC-10	5/8
EC-12	3/4
EC-14	7/8
EC-16	1

PDE SERIES

Threaded Plastic Plugs
For Flareless Tubes and
Nut Assemblies



PDE Series	Tube Size	To Fit Thread
PDE-4	1/4	7/16-20
PDE-5	5/16	1/2-20
PDE-6	3/8	9/16-18
PDE-8	1/2	3/4-16
PDE-10	5/8	7/8-14
PDE-12	3/4	1-1/16-12
PDE-16	1	1-5/16-12

PD SERIES

Threaded Plastic Plugs
for Flared Fittings



PD Series	Tube Size	To Fit Thread
PD-20	1/8	5/16-24
PD-30	3/16	3/8-24
PD-40	1/4	7/16-20
PD-50	5/16	1/2-20
PD-60	3/8	9/16-18
PD-80	1/2	3/4-16
PD-100	5/8	7/8-14
PD-120	3/4	1-1/16-12

ASP SERIES

Threaded Aluminum Plugs
for 37° Flared Fittings



ASP Series	Tube Size	To Fit Thread
ASP-4	1/4	7/16-20
ASP-5	5/16	1/2-20
ASP-6	3/8	9/16-18
ASP-8	1/2	3/4-16
ASP-10	5/8	7/8-14
ASP-12	3/4	1-1/16-12
ASP-16	1	1-5/16-12

EP SERIES

Electro-Static-Free Plugs
for Threaded Connector



EP Series	Will Plug Nominal Thread Size
EP-8	1/4-28
EP-10	5/8-24
EP-12	3/4-20
EP-14	7/8-20
EP-16	1-20
EP-20	1-1/4-18

ADP SERIES

Threaded Aluminum Plugs
for Flareless Tube and
Hose Assemblies



ADP Series	Tube Size	To Fit Thread
ADP-4	1/4	7/16-20
ADP-5	5/16	1/2-20
ADP-6	3/8	9/16-18
ADP-7	7/16	5/8-18
ADP-8	1/2	3/4-16
ADP-10	5/8	7/8-14
ADP-12	3/4	1-1/16-12

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Date of Certification Expiration:

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6557

Campus

August 31, 2016

August 30, 2019

August 31, 2016

October 1, 2017

President

Richard Kintner

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