



HOWMET FASTENING SYSTEMS
TUCSON OPERATIONS
3724 EAST COLUMBIA STREET
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PHONE (520) 519-7400
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Unimatic®
ADVANCED BLIND BOLT
ENGINEERING
STANDARD

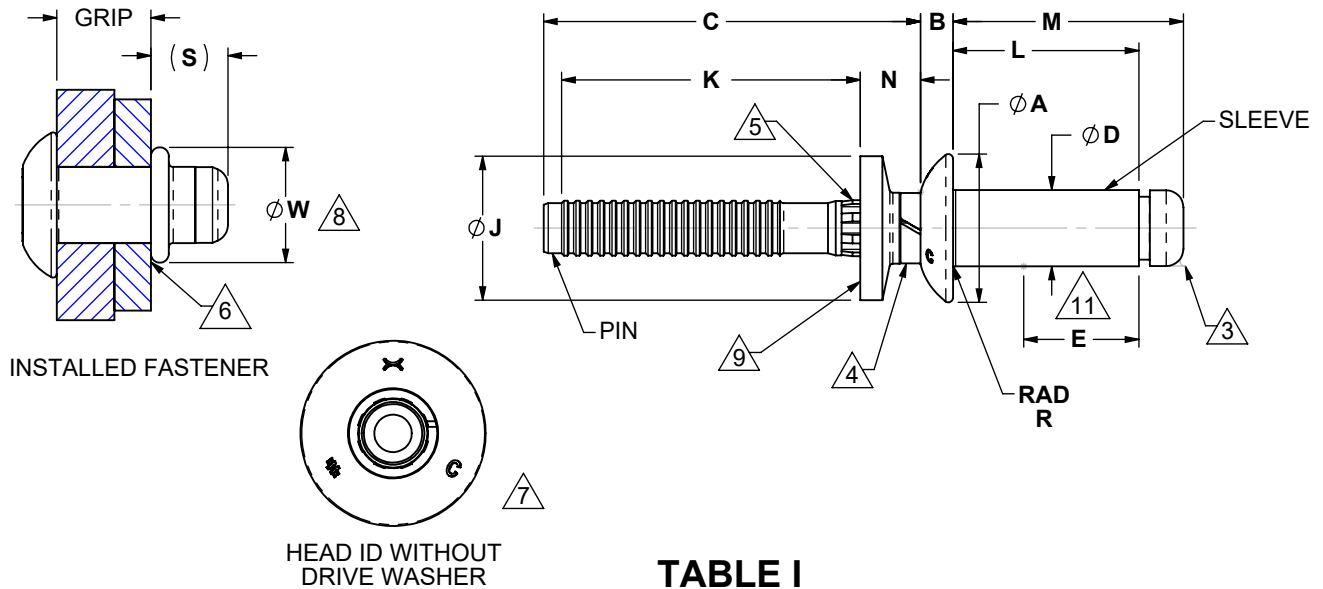


TABLE I

PART NUMBER	NOM DIA.	Ø A HEAD	B +.010 -.000	C MIN.	Ø D SLEEVE ±.001	E MAX	Ø J ±.005 10	K ±.030	N ±.060	R RAD. MAX.	(S) DESIGN REF	Ø W MIN.	SINGLE SHEAR 1 2	TENSILE 1	SPINDLE RET.	HOLE LIMITS +.003 -.000
UABP-EU05-()	05	.328 .296	.067	.844	.163	.300	.375	.800	.140	.010	.232	.223	1980	1150	575	.164
UABP-EU06-()	06	.394 .356	.080	.875	.198	.320		.830	.160	.015	.292	.270	2925	1690	845	.199
UABP-EU08-()	08	.525 .475	.107	1.000	.259	.370		.975	.190	.018	.361	.355	5000	2900	1440	.260

- 1. MINIMUM ULTIMATE SINGLE SHEAR AND TENSILE STRENGTHS IN POUNDS OF INSTALLED FASTENER.
- 2. APPLIES TO GRIPS 05-03 MAX, 06-03 MAX, 08-04 MAX AND UP. IN SHORTER GRIPS, A TRUE COMPOSITE SHEAR TEST CANNOT BE OBTAINED.
- 3. TRIM FLASH NOT TO EXCEED .005 MAXIMUM LENGTH ABOVE HEAD OF PIN.
- 4. SOLID OR SPLIT LOCK COLLAR - MANUFACTURER'S OPTION. SPLIT NOT TO EXCEED .020 WIDTH.
- 5. KNURLED TO FACILITATE FASTENER ASSEMBLY. NOT PART OF THE INSTALLED FASTENER.
- 6. BLIND SIDE HEAD MAY BE INSTALLED ON 7° MAXIMUM SLOPE.
- 7. IDENTIFICATION: HUCK SYMBOL, "C" (MATERIAL) AND GRIP DASH NUMBER.
- 8. THE AVERAGE READING OF THE SMALLEST & LARGEST OBSERVED VALUE ON THE SAME SPECIMEN MUST BE EQUAL TO OR GREATER THAN THE STATED MINIMUM DIAMETER.
- 9. DRIVE WASHER TO FACILITATE INSTALLATION ONLY. NOT PART OF THE INSTALLED FASTENER.
- 10. -05 DIA SIZE ALSO AVAILABLE WITH REDUCED O.D. DRIVE ANVIL OF .312 ± .005. SEE PART NUMBER EXAMPLES.
- 11. "E" LENGTH OF "Ø D" MAY BE .002 UNDERSIZE.

DIMENSIONS IN INCHES

Y	PER ECN 15394, REMOVED "THIS IS APPLICABLE TO DESIGN GRIP RANGE" FROM NOTE 8.	Current Design Activity CAGE Code 0HDW7	PROCUREMENT SPEC T0106	DRAWN BY J. SCHLOBOHM
				CHECKED BY SIGNATURE ON FILE
ISSUED	9/20/2001	Unimatic ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH, PULL-TYPE, POSITIVE MECHANICAL LOCK, PROTRUDING HEAD, LARGE FOOT PRINT, A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION		UABP-EU
REVISED	07/12/2023			SK12756
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TABLE II

GRIP NUMBER TABULATION															
GRIP DASH NUMBER	OVERLAP GRIP MIN	DESIGN GRIP RANGE		OVERLAP GRIP MAX	05		GRIP DASH NUMBER	OVERLAP GRIP MIN	DESIGN GRIP RANGE		OVERLAP GRIP MAX	06		08	
		MIN.	MAX.		(L)	M MAX			MIN.	MAX.		(L)	M MAX	(L)	M MAX
01	NONE	.031	.095	.111	.283	.447	02	.078	.094	.157	.173	.373	.570	.413	.660
02	.084	.094	.157	.173	.346	.510	03	.140	.156	.220	.236	.435	.632	.475	.722
03	.146	.156	.220	.236	.408	.572	04	.203	.219	.282	.298	.498	.695	.538	.785
04	.209	.219	.282	.298	.471	.635	05	.265	.281	.345	.361	.560	.757	.600	.847
05	.271	.281	.345	.361	.533	.697	06	.328	.344	.407	.423	.623	.820	.663	.910
06	.334	.344	.407	.423	.596	.760	07	.390	.406	.470	.486	.685	.882	.725	.972
07	.396	.406	.470	.486	.658	.822	08	.453	.469	.532	.548	.748	.945	.788	1.035
08	.459	.469	.532	.548	.720	.884	09	.515	.531	.595	.611	.810	1.007	.850	1.097
09	.521	.531	.595	.611	.782	.946	10	.578	.594	.657	.673	.873	1.070	.913	1.160
10	.584	.594	.657	.673	.845	1.009	11	.640	.656	.720	.736	.936	1.133	.976	1.223
11	.646	.656	.720	.735	.908	1.072	12	.703	.719	.782	.798	.998	1.195	1.038	1.285
12	.709	.719	.782	.798	.970	1.134	13	.765	.781	.845	.861	1.061	1.258	1.101	1.348
13	.771	.781	.845	.860	1.033	1.197	14	.828	.844	.907	.923	1.123	1.320	1.163	1.410
14	.834	.844	.907	.923	1.095	1.259	15	.890	.906	.970	.986	1.186	1.383	1.226	1.473
15	.896	.906	.970	.985	1.158	1.322	16	.953	.969	1.032	1.049	1.248	1.445	1.288	1.535
16	.959	.969	1.032	1.048	1.220	1.384	17	1.015	1.031	1.095	1.111	1.311	1.508	1.351	1.598
17							18	1.078	1.094	1.157	1.173	1.373	1.570	1.413	1.660
18							19	1.141	1.156	1.220	1.236	1.435	1.633	1.476	1.723
19							20	1.203	1.219	1.282	1.298	1.498	1.695	1.538	1.785
20							21	1.265	1.281	1.345	1.360	1.560	1.758	1.601	1.848
							22	1.328	1.344	1.407	1.423	1.623	1.820	1.663	1.910
							23	1.390	1.406	1.470	1.485	1.685	1.883	1.726	1.973
							24	1.453	1.469	1.532	1.548	1.748	1.945	1.788	2.035
							25	1.515	1.531	1.595	1.610	1.810	2.008	1.851	2.098

TABLE III

UABP-EU INSTALLED WEIGHT IN LBS (1000 pcs.)							
GRIP	5 DIA	6 DIA	8 DIA	GRIP	5 DIA	6 DIA	8 DIA
-01	2.72			-14	7.54	11.62	22.18
-02	3.06	5.02	10.78	-15	7.91	12.17	23.13
-03	3.43	5.57	11.73	-16		12.72	24.08
-04	3.80	6.12	12.68	-17		13.27	25.03
-05	4.17	6.67	13.63	-18		13.82	25.98
-06	4.55	7.22	14.58	-19		14.37	26.93
-07	4.92	7.77	15.53	-20		14.92	27.88
-08	5.29	8.32	16.48	-21		15.47	28.83
-09	5.67	8.87	17.43	-22		16.02	29.78
-10	6.04	9.42	18.38	-23		16.57	30.73
-11	6.41	9.97	19.33	-24		17.12	31.68
-12	6.79	10.52	20.28	-25		17.67	32.63
-13	7.16	11.07	21.23				

DIMENSIONS IN INCHES

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			CHECKED BY	SIGNATURE ON FILE
ISSUED	9/20/2001	Unimatic ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH, PULL-TYPE, POSITIVE MECHANICAL LOCK, PROTRUDING HEAD, LARGE FOOT PRINT, A-286 CRES (95 KSI SHEAR) SINGLE ACTION INSTALLATION		UABP-EU
REVISED	07/12/2023			SK12756
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TABLE I V

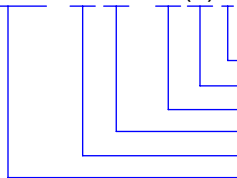
FINISH CODE	MATERIAL			FINISH			LUBE △ 12.
	SLEEVE	PIN	LOCK COLLAR	SLEEVE	PIN	LOCK COLLAR	
NONE	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL
D	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	ALUMINUM COAT ML-DTL-83488	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL
CD	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	CAD. PLATE AMS-QQ-P-416 TYPE II CLEAR DICHROMATE CLASS 2	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL
AC △ 13.	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	ALUMINUM PIGMENTED COATING PER NAS4006 AND BMS 10-85	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL
ACN △ 13.	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS5690	NON-CHROMATE ALUMINUM PIGMENTED COATING PER NAS4006 AND EN4473	PASSIVATE AMS2700 & AMS-QQ-P-35	PASSIVATE AMS2700 & AMS-QQ-P-35	OPTIONAL

△
12. LUBRICATION- WHEN LUBRICATED, PARTS SHALL BE LUBRICATED PER AS5272, AS87132 OR LOX COMPATIBLE DRY FILM LUBRICANT. (MANUFACTURER'S OPTIONS)

△
13. COMPLETE COVERAGE OF SLEEVE INTERNAL FEATURES IS NOT REQUIRED. OVER SPRAY ONTO THE INTERNAL FEATURES IS ACCEPTABLE

HUCK PART NUMBER EXAMPLE:

UABP - EU06 - 04()R



CODE "R" FOR REDUCED DRIVE ANVIL DIAMETER ON -05 DIA SIZE ONLY
 FINISH CODE - SEE TABLE
 GRIP NUMBER IN 16th INCHES.
 NOMINAL SHANK DIAMETER IN 32nd INCHES.
 MATERIAL DESIGNATOR - A286.
 Unimatic® ADVANCED SERIES BLIND BOLT FASTENER, HIGH STRENGTH PULL-TYPE,
 POSITIVE MECHANICAL LOCK, PROTRUDING HEAD,
 EXPANDED BULB. LARGE FOOT PRINT. DRIVE WASHER INCLUDED.

DIMENSIONS IN INCHES

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