



## R-N SERIES RIVET NUT PROFILE

The **R-N Series Rivet Nut** features a heavy duty head profile and increased wall thickness in the collapse area. This makes the R-N Series ideal for leg leveling applications as shown on page 8.

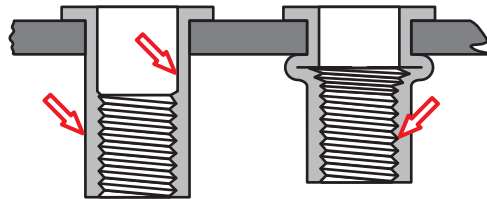
The R-N Series Rivet Nut can be installed using AVK's pneumatic/ hydraulic SPP2 Tool<sup>TM</sup> or the specific rivet nut tools shown on page 36. The R-N Series Rivet Nut's heavier wall thickness and resulting upset load requires this type of tool be used for installation. The R-N Series can be installed either prior to or after finish.



## COLD FORMING TECHNOLOGY<sup>TM</sup>

### HOW IT WORKS FOR YOU

The R-N Series Rivet Nuts are manufactured using state-of-the-art cold forming technology. This provides very precise tolerances. All surfaces of the R-N Series are **FORMED**, not machined. This provides excellent quality.



The internal thread of the R-N Series Rivet Nut is roll **FORMED** not machined. This provides excellent thread strength.

## DESIGN BENEFITS

- **INCREASED PUSH-OUT LOADS** are achievable in leg leveling applications when using the R-N Series due to its heavy duty head profile and thick wall construction.
- **SUPERIOR THREAD STRENGTH** is provided due to our internal rolled thread manufacturing process.
- **SUPERIOR CORROSION RESISTANCE** is provided by our "9T" finish (500 hours plus) see page 46..
- **UNIFORM INSTALLATION** is guaranteed because of the dimensional tolerances and concentricity tolerances built into our product made possible by our cold forming technology.
- **AVAILABLE** in steel and aluminum. For additional materials, contact AVK for availability.
- **NAS1329 and NAS1330** with "DFAR" material is available upon request.

## ADDITIONAL DESIGN TYPES

### CLOSED END

Thread area is enclosed eliminating leakage past the threads from either side of the application. Contact an AVK Sales Representative for availability.



### KEYED HEAD

An underside of the head "key" projection when placed into a matching "keyed" hole design provides additional torque resistance. Contact an AVK Sales Representative for availability.



### 100° COUNTERSUNK HEAD

A 100° countersunk head profile when installed into a matching countersunk hole provides a flush installation. Contact an AVK Sales Representative for availability.

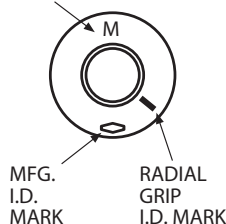


# FLATHEAD UNIFIED (INCH) AND METRIC THREAD SIZES

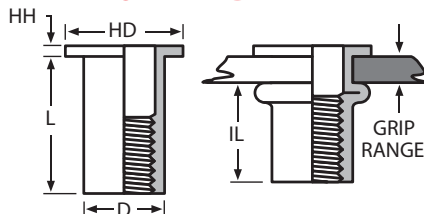


**RIVET NUT**  
THREADED INSERT

"M" INDICATES METRIC THREAD



## OPEN END TYPE



Thread Specifications: Unified MIL-S-7742/ASME-B.1.1  
Metric 6H/21 per ASME B1.13M

THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	I.D. MARK	HOLE SIZE +.003 / -.000	HD ±.015	HH NOM.	L ±.015	D +.000 -.004	IL REF.
4-40 UNC	440	.010 - .060	60	BLANK	5/32 (.155)	.270	.025	.345	.155	.230
4-40 UNC	440	.060 - .085	85	1-RAD	5/32 (.155)	.270	.025	.370	.155	.230
4-40 UNC	440	.085 - .110	110	2-RAD	5/32 (.155)	.270	.025	.400	.155	.230
6-32 UNC	632	.010 - .075	75	1-RAD	#12 (.189)	.325	.032	.438	.189	.300
6-32 UNC	632	.075 - .120	120	3-RAD	#12 (.189)	.325	.032	.500	.189	.315
6-32 UNC	632	.120 - .160	160	5-RAD	#12 (.189)	.325	.032	.500	.189	.270
8-32 UNC	832	.010 - .075	75	1-RAD	#2 (.221)	.357	.032	.438	.221	.300
8-32 UNC	832	.075 - .120	120	3-RAD	#2 (.221)	.357	.032	.500	.221	.315
8-32 UNC	832	.120 - .160	160	5-RAD	#2 (.221)	.357	.032	.500	.221	.270
10-32 UNF	1032	.010 - .080	80	BLANK	1/4 (.250)	.406	.038	.531	.250	.380
10-32 UNF	1032	.080 - .130	130	1-RAD	1/4 (.250)	.406	.038	.594	.250	.390
10-32 UNF	1032	.130 - .180	180	2-RAD	1/4 (.250)	.406	.038	.641	.250	.390
1/4-20 UNC	420	.020 - .080	80	BLANK	Q (.332)	.475	.058	.625	.332	.450
1/4-20 UNC	420	.080 - .140	140	1-RAD	Q (.332)	.475	.058	.687	.332	.450
1/4-20 UNC	420	.140 - .200	200	2-RAD	Q (.332)	.475	.058	.750	.332	.450
5/16-18 UNC	518	.030 - .125	125	BLANK	Z (.413)	.665	.062	.750	.413	.505
5/16-18 UNC	518	.125 - .200	200	1-RAD	Z (.413)	.665	.062	.875	.413	.555
5/16-18 UNC	518	.200 - .275	275	2-RAD	Z (.413)	.665	.062	.937	.413	.540
3/8-16 UNC	616	.030 - .115	115	BLANK	12,5mm (.490)	.781	.088	.844	.490	.585
3/8-16 UNC	616	.115 - .200	200	1-RAD	12,5mm (.490)	.781	.088	.938	.490	.595
3/8-16 UNC	616	.200 - .285	285	2-RAD	12,5mm (.490)	.781	.088	1.031	.490	.605
1/2-13 UNC	813	.050 - .150	150	BLANK	5/8 (.625)	.906	.085	.906	.625	.605
1/2-13 UNC	813	.150 - .250	250	1-RAD	5/8 (.625)	.906	.085	1.031	.625	.630
1/2-13 UNC	813	.250 - .350	350	2-RAD	5/8 (.625)	.906	.085	1.141	.625	.640

THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	I.D. MARK	HOLE SIZE +0,08 / -0,00	HD ±0,38	HH NOM.	L ±0,38	D +0,00 -0,10	IL REF.
M3 x 0,5 ISO	350	0,25 - 1,00	1,0	BLANK	3,94	6,68	0,63	8,00	3,93	5,61
M3 x 0,5 ISO	350	1,00 - 1,75	1,75	1-RAD	3,94	6,68	0,63	8,75	3,93	5,61
M3 x 0,5 ISO	350	1,75 - 2,50	2,5	2-RAD	3,94	6,68	0,63	9,50	3,93	5,61
M4 x 0,7 ISO	470	0,25 - 2,00	2,0	BLANK	5,60	9,01	0,81	11,00	5,61	7,08
M4 x 0,7 ISO	470	2,00 - 3,00	3,0	1-RAD	5,60	9,01	0,81	12,00	5,61	7,08
M4 x 0,7 ISO	470	3,00 - 4,00	4,0	2-RAD	5,60	9,01	0,81	13,00	5,61	7,08
M5 x 0,8 ISO	580	0,25 - 2,00	2,0	BLANK	7,20	11,17	1,22	14,50	7,13	10,09
M5 x 0,8 ISO	580	2,00 - 3,50	3,5	1-RAD	7,20	11,17	1,22	16,00	7,13	10,09
M5 x 0,8 ISO	580	3,50 - 5,00	5,0	2-RAD	7,20	11,17	1,22	17,50	7,13	10,09
M6 x 1,0 ISO	610	0,75 - 2,00	2,0	BLANK	8,50	13,43	1,47	15,50	8,43	10,58
M6 x 1,0 ISO	610	2,00 - 3,50	3,5	1-RAD	8,50	13,43	1,47	17,00	8,43	10,58
M6 x 1,0 ISO	610	3,50 - 5,00	5,0	2-RAD	8,50	13,43	1,47	18,50	8,43	10,58
M8 x 1,25 ISO	8125	1,00 - 3,00	3,0	BLANK	10,50	16,65	1,57	18,00	10,48	11,83
M8 x 1,25 ISO	8125	3,00 - 5,00	5,0	1-RAD	10,50	16,65	1,57	20,00	10,48	11,83
M8 x 1,25 ISO	8125	5,00 - 7,00	7,0	2-RAD	10,50	16,65	1,57	22,00	10,48	11,83
M10 x 1,5 ISO	1015	1,00 - 3,00	3,0	BLANK	12,50	19,50	2,23	20,00	12,44	13,20
M10 x 1,5 ISO	1015	3,00 - 5,50	5,5	1-RAD	12,50	19,50	2,23	22,50	12,44	13,20
M10 x 1,5 ISO	1015	5,50 - 8,00	8,0	2-RAD	12,50	19,50	2,23	25,00	12,44	13,20
M12 x 1,75 ISO	12175	1,00 - 3,00	3,0	BLANK	15,50	22,79	2,23	24,00	15,46	16,45
M12 x 1,75 ISO	12175	3,00 - 5,50	5,5	1-RAD	15,50	22,79	2,23	26,50	15,46	16,45
M12 x 1,75 ISO	12175	5,50 - 8,00	8,0	2-RAD	15,50	22,79	2,23	29,00	15,46	16,45

NOTE 1: Grip range can be affected by parent material density and actual hole size. AVK suggests trial installations to determine optimum grip.

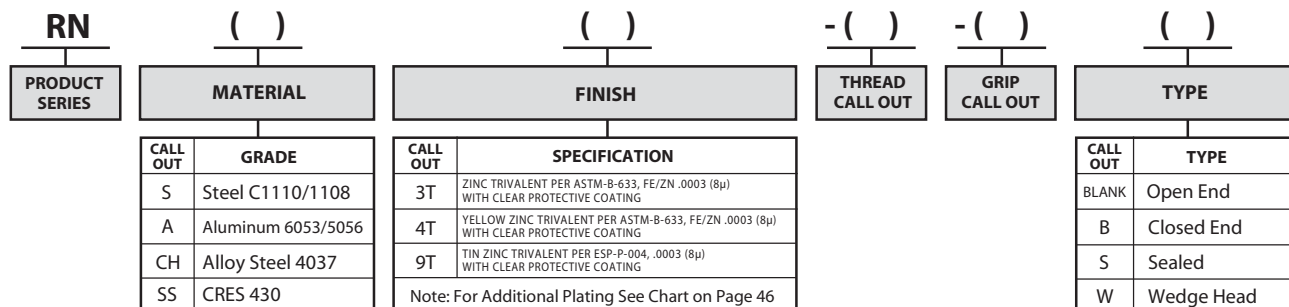
NOTE 2: Additional UNF and UNC threads are available. Contact an AVK Sales Representative for details.

NOTE 3: RN Series threads are not gaugeable after installation.

NOTE 4: Additional grip sizes, materials, head styles and closed end versions are available by special order. Contact an AVK Sales Representative for details.

## PART NUMBERING SYSTEM

SAMPLE NUMBER: RNS3T-420-80



For air tool selection see page 36