

## R-N SERIES RIVET NUT PROFILE

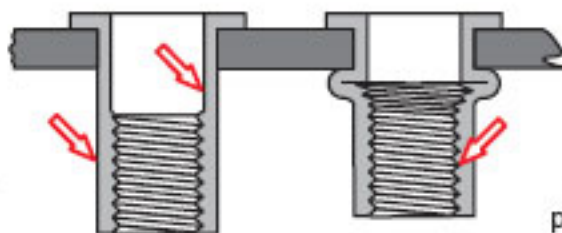
The R-N Series Rivet Nut features a heavy duty head profile and increased wall thickness in the collapse area. This makes the R-N Series ideal for leg leveling applications as shown on page 7.

The R-N Series Rivet Nut can be installed using AVK's SPP™ pneumatic/hydraulic tools or the specific rivet nut tools shown on page 31. 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™

### 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 standard cadmium finish (72 hours. salt spray).
- ◆ **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.

## ADDITIONAL DESIGN TYPES

### CLOSED END

Thread area is enclosed eliminating leakage past the threads from either side of the application.

Contact AVK for availability.



### KEYED HEAD

An underside of the head "key" projection when placed into a matching "keyed" hole design provides additional torque resistance.

Contact AVK for availability.



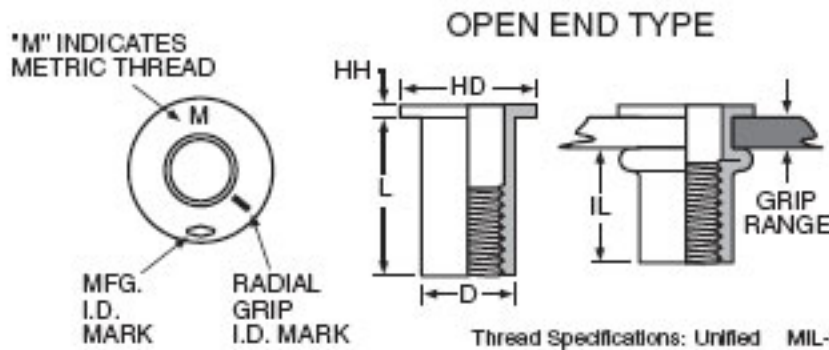
### 100° COUNTERSUNK HEAD

A 100° countersunk head profile when installed into a matching countersunk hole provides a flush installation.

Contact AVK for availability.



# FLATHEAD UNIFIED (INCH) AND METRIC THREAD SIZES



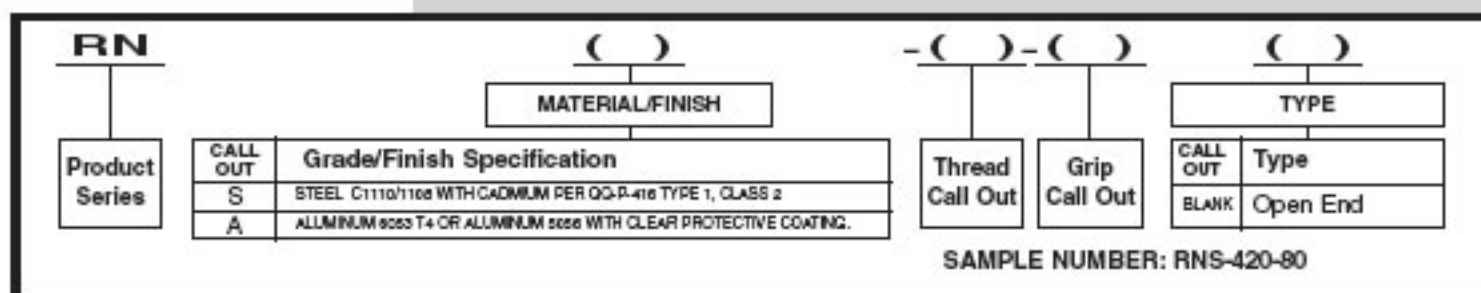
Thread Specifications: Unified MIL-S-7742/ASME-B1.1  
Metric 6H/21 per ASME B1.13M

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 (.156)	.270	.025	.345	.155	.230
4-40 UNC	440	.060-.085	85	1-RAD.	5/32 (.156)	.270	.025	.370	.155	.230
4-40 UNC	440	.085-110	110	2-RAD.	5/32 (.156)	.270	.025	.400	.155	.230
6-32 UNC	632	.010-.075	75	1-RAD.	#12 (.189)	.325	.032	.438	.199	.300
6-32 UNC	632	.075-120	120	3-RAD.	#12 (.189)	.325	.032	.500	.199	.315
6-32 UNC	632	.120-160	160	5-RAD.	#12 (.189)	.325	.032	.500	.199	.270
8-32 UNC	832	.010-.075	75	1-RAD.	#2 (.221)	.357	.032	.498	.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)	.408	.038	.591	.250	.390
10-32 UNF	1032	.080-130	130	1-RAD.	1/4 (.250)	.408	.038	.594	.250	.390
10-32 UNF	1032	.130-190	190	2-RAD.	1/4 (.250)	.408	.038	.641	.250	.390
1/4-20 UNC	420	.020-.080	80	BLANK	0 (.332)	.475	.058	.625	.332	.450
1/4-20 UNC	420	.080-140	140	1-RAD.	0 (.332)	.475	.058	.687	.332	.450
1/4-20 UNC	420	.140-200	200	2-RAD.	0 (.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	618	.030-115	115	BLANK	12.5 mm (.490)	.781	.088	.844	.490	.595
3/8-16 UNC	618	.115-200	200	1-RAD.	12.5 mm (.490)	.781	.088	.938	.490	.595
3/8-16 UNC	618	.200-285	285	2-RAD.	12.5 mm (.490)	.781	.088	1.081	.490	.605
1/2-13 UNC	813	.050-150	150	BLANK	5/8 (.625)	.908	.085	.908	.625	.605
1/2-13 UNC	813	.150-250	250	1-RAD.	5/8 (.625)	.908	.085	1.081	.625	.630
1/2-13 UNC	813	.250-350	350	2-RAD.	5/8 (.625)	.908	.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.
M3x0.5 ISO	350	0.25-1.00	1.0	BLANK	3.94	6.68	0.63	8.00	3.93	5.61
M3x0.5 ISO	350	1.00-1.75	1.75	1-RAD.	3.94	6.68	0.63	8.75	3.93	5.61
M3x0.5 ISO	350	1.75-2.50	2.5	2-RAD.	3.94	6.68	0.63	9.50	3.93	5.61
M4x0.7 ISO	470	0.25-2.00	2.0	BLANK	5.60	9.01	0.81	11.00	5.61	7.08
M4x0.7 ISO	470	2.00-3.00	3.0	1-RAD.	5.60	9.01	0.81	12.00	5.61	7.08
M4x0.7 ISO	470	3.00-4.00	4.0	2-RAD.	5.60	9.01	0.81	13.00	5.61	7.08
M5x0.8 ISO	580	0.25-2.00	2.0	BLANK	7.20	11.17	1.22	14.50	7.13	10.09
M5x0.8 ISO	580	2.00-3.50	3.5	1-RAD.	7.20	11.17	1.22	16.00	7.13	10.09
M5x0.8 ISO	580	3.50-5.00	5.0	2-RAD.	7.20	11.17	1.22	17.50	7.13	10.09
M6x1.0 ISO	610	0.75-2.00	2.0	BLANK	8.50	13.43	1.47	15.50	8.43	10.58
M6x1.0 ISO	610	2.00-3.50	3.5	1-RAD.	8.50	13.43	1.47	17.00	8.43	10.58
M6x1.0 ISO	610	3.50-5.00	5.0	2-RAD.	8.50	13.43	1.47	18.50	8.43	10.58
M8x1.25 ISO	8125	1.00-3.00	3.0	BLANK	10.50	16.65	1.57	18.00	10.48	11.83
M8x1.25 ISO	8125	3.00-5.00	5.0	1-RAD.	10.50	16.65	1.57	20.00	10.48	11.83
M8x1.25 ISO	8125	5.00-7.00	7.0	2-RAD.	10.50	16.65	1.57	22.00	10.48	11.83
M10x1.5 ISO	1015	1.00-3.00	3.0	BLANK	12.50	19.50	2.23	20.00	12.44	13.20
M10x1.5 ISO	1015	3.00-5.50	5.5	1-RAD.	12.50	19.50	2.23	22.50	12.44	13.20
M10x1.5 ISO	1015	5.50-8.00	8.0	2-RAD.	12.50	19.50	2.23	25.00	12.44	13.20
M12x1.75 ISO	12175	1.00-3.00	3.0	BLANK	15.50	22.79	2.23	24.00	15.46	16.45
M12x1.75 ISO	12175	3.00-5.50	5.5	1-RAD.	15.50	22.79	2.23	26.50	15.46	16.45
M12x1.75 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 AVK 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 AVK for details.

## PART NUMBERING SYSTEM



For air tool selection see pages 34 and 37