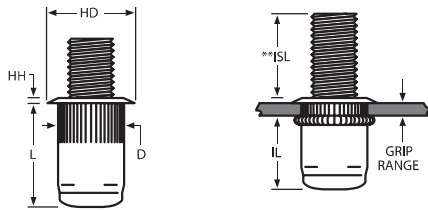


# UNIFIED (INCH) AND METRIC THREAD SIZES



**\*\*NOTE:** The ISL Dimension shown below is the height of the installed stud at max grip. The height of the stud will increase if it is installed into thinner material. To calculate actual ISL use this formula: Max grip – actual grip + ISL = Actual ISL

Thread Specifications: Unified 2A/21 per ASME B1.1  
Metric 6G/21 per ASME B1.13M

THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	STUD LENGTHS**			HOLE SIZE +.006 / -.000	HD ±.010 ±.025*	HH ±.003	L ±.020	D MAX.	IL MAX.
				ISL CALL OUT	ISL CALL OUT	ISL CALL OUT						
6-32 UNC	632	.020-.080	80	.500 500	.625 625	.750 750	17/64 (.2656)	.390	.030	.485	.265	.360
6-32 UNC	632	.080-.130	130	.450 400	.575 575	.700 700	17/64 (.2656)	.390	.030	.535	.265	.360
8-32 UNC	832	.020-.080	80	.500 500	.625 625	.750 750	17/64 (.2656)	.390	.030	.485	.265	.360
8-32 UNC	832	.080-.130	130	.450 400	.575 575	.700 700	17/64 (.2656)	.390	.030	.535	.265	.360
10-24 UNC	1024	.020-.130	130	.500 500	.625 625	.750 750	19/64 (.2969)	.415	.030	.545	.296	.380
10-24 UNC	1024	.130-.225	225	.405 405	.530 530	.655 655	19/64 (.2969)	.415	.030	.655	.296	.380
10-32 UNF	1032	.020-.130	130	.500 500	.625 625	.750 750	19/64 (.2969)	.415	.030	.545	.296	.380
10-32 UNF	1032	.130-.225	225	.405 405	.530 530	.655 655	19/64 (.2969)	.415	.030	.655	.296	.380
1/4-20 UNC	420	.027-.165	165	.625 625	.8125 8125	1.000 1000	25/64 (.3906)	.500	.030	.670	.390	.465
1/4-20 UNC	420	.165-.260	260	.530 530	.7175 7175	.905 905	25/64 (.3906)	.500	.030	.770	.390	.465
5/16-18 UNC	518	.027-.150	150	.625 625	.875 875	1.125 1125	17/32 (.5312)	.685*	.035	.810	.530	.600
5/16-18 UNC	518	.150-.312	312	.463 463	.713 713	.963 963	17/32 (.5312)	.685*	.035	.925	.530	.555
3/8-16 UNC	616	.027-.150	150	.750 750	1.000 1000	1.250 1250	17/32 (.5312)	.685*	.035	.810	.530	.600
3/8-16 UNC	616	.150-.312	312	.588 588	.838 838	1.088 1088	17/32 (.5312)	.685*	.035	.925	.530	.535

THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	STUD LENGTHS**			HOLE SIZE +.015 / -.000	HD ±0,25 ±0,64*	HH ±0,08	L ±0,50	D MAX.	IL MAX.
				ISL CALL OUT	ISL CALL OUT	ISL CALL OUT						
M4 x 0,7 ISO	470	0,50 - 2,00	2.0	12,0 12	15,0 15	20,0 20	6,75	9,91	0,76	12,32	6,73	9,15
M4 x 0,7 ISO	470	2,00 - 3,30	3.3	10,7 10,7	13,7 13,7	18,7 18,7	6,75	9,91	0,76	13,59	6,73	9,15
M5 x 0,8 ISO	580	0,50 - 3,30	3.3	12,0 12	15,0 15	20,0 20	7,60	10,54	0,76	13,84	7,52	9,65
M5 x 0,8 ISO	580	3,30 - 5,70	5.7	9,6 9,6	12,6 12,6	17,6 17,6	7,60	10,54	0,76	16,64	7,52	9,65
M6 x 1,0 ISO	610	0,70 - 4,20	4.2	15,0 15	20,0 20	25,0 25	10,00	12,70	0,76	17,02	9,91	11,81
M6 x 1,0 ISO	610	4,20 - 6,60	6.6	12,6 12,6	17,6 17,6	22,6 22,6	10,00	12,70	0,76	19,56	9,91	11,81
M8 x 1,25 ISO	8125	0,70 - 3,80	3.8	16,0 16	22,0 22	28,0 28	13,50	17,40*	0,89	20,57	13,46	15,24
M8 x 1,25 ISO	8125	3,80 - 7,90	7.9	11,9 11,9	17,9 17,9	23,9 23,9	13,50	17,40*	0,89	23,50	13,46	14,10
M10 x 1,5 ISO	1015	0,70 - 3,80	3.8	20,0 20	25,0 25	30,0 30	13,50	17,40*	0,89	20,57	13,46	15,24
M10 x 1,5 ISO	1015	3,80 - 7,90	7.9	15,9 15,9	20,9 20,9	25,9 25,9	13,50	17,40*	0,89	23,50	13,46	13,60

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

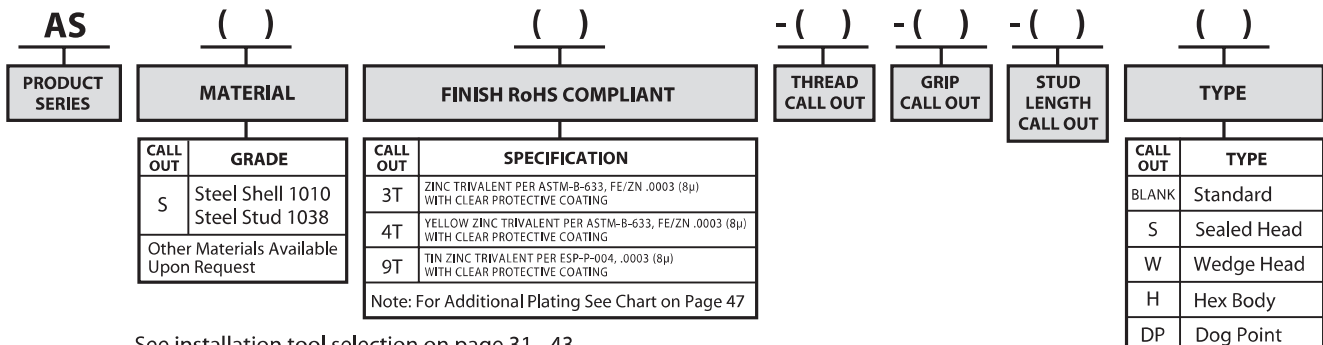
NOTE 2: Additional UNF fine threads are available. Contact an AVK Sales Representative for details.

\*\*Dimensions in maximum grip condition.

## PART NUMBERING SYSTEM



SAMPLE NUMBER: ASS3T-420-165-625



See installation tool selection on page 31 - 43.