



Spinwall Technology™
Blind Threaded Inserts and Studs



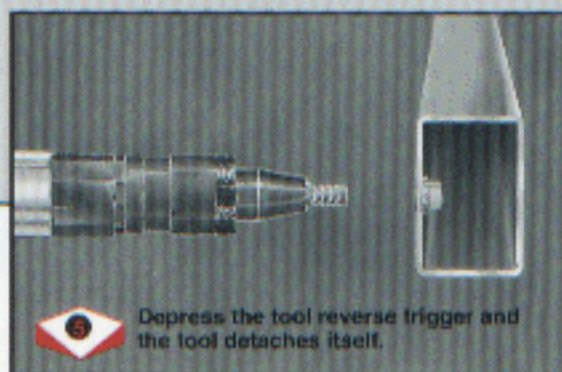
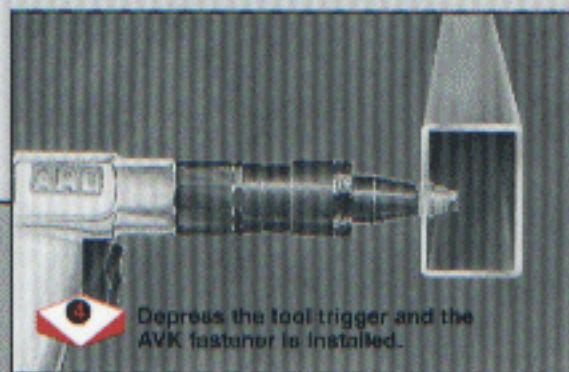
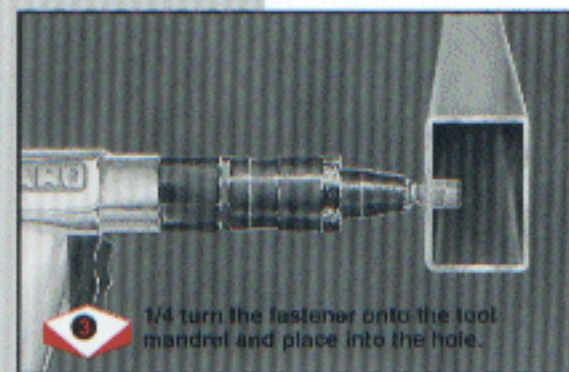
INTRODUCTION

AVK INDUSTRIAL PRODUCTS is located in Valencia, CA and is the original manufacturer of Spinwall Technology™ type blind installed threaded inserts and studs. This brochure will provide useful data on AVK's Spinwall Technology products.

SPINWALL TECHNOLOGY™

AVK's Spinwall Technology threaded inserts and studs install blind from the front side of the workpiece using lightweight pneumatic tools that require no adjustment to compensate for parent materials that may vary in thickness.

MAY WE DEMONSTRATE?



The AVK installation process takes 2–3 seconds . . . *that's fast!*

WHY USE AVK?

In today's competitive global marketplace it's important that manufacturers seek out new materials and state of the art assembly techniques to maintain market leadership and profits. Consider these opportunities:

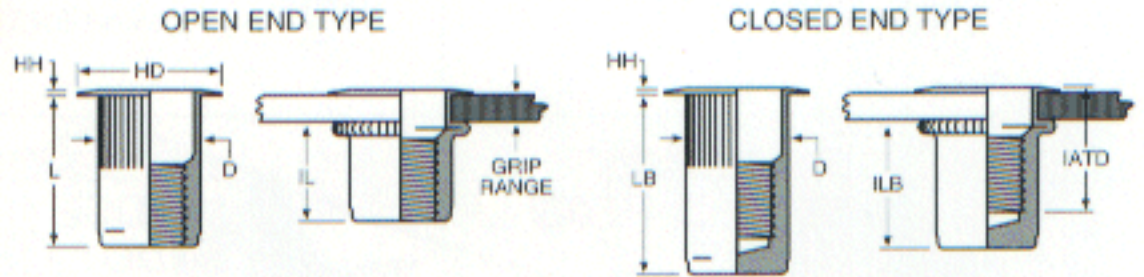
- ◆ **LIGHTWEIGHT THINNER GAUGE SHEET METALS** are being specified to reduce raw material and freight costs. AVK provides strong load-bearing threads in these materials.
- ◆ **EXTRUDED ALUMINUM** can be formed into complex high-strength shapes that reduce weight. Blind assembly with AVK in extruded aluminum is easy.
- ◆ **HYDROFORMED TUBING** is a new developing technology. AVK products are an excellent choice for fastening to hydroformed tubing.
- ◆ **GALVANIZED SHEET METAL** provides improved corrosion resistance. Why burn it away with weld nuts and studs? Use AVK. It doesn't damage galvanized sheet metal.
- ◆ **PLASTICS** continue to experience growth. AVK's products are especially useful in SMC, rotational or blow molded plastics.
- ◆ **PREPAINTED SHEET METAL** can eliminate costly in-plant paint lines. AVK can be installed into painted surfaces without affecting the surface finish.
- ◆ **CONSUMER ASSEMBLY** of products shifts the labor burden to the consumer. It's hard to strip or spin AVK products and they make consumer assembly reliable with standard hardware.
- ◆ **ENVIRONMENTAL AND SAFETY ISSUES** continue to push manufacturers away from dirty processes such as welding and painting. AVK can help eliminate these processes.



The **A-L Series™** threaded insert is AVK's most popular fastener for drilled or punched holes. The **A-K Series™** is a variation of the A-L Series and features a reduced head profile when a near flush condition is required. The A-L and A-K Series threaded inserts are compatible with Grade 5 or Metric Class 8.8/9.8 mating fasteners.

A-L/A-K SERIES™ FEATURES:

- ◆ Axial Knurl
- ◆ Internal Rolled Threads
- ◆ Wide Grip Range
- ◆ Low Profile Head
- ◆ Class 2B Unified Inch Threads
- ◆ Class 6H Metric Threads



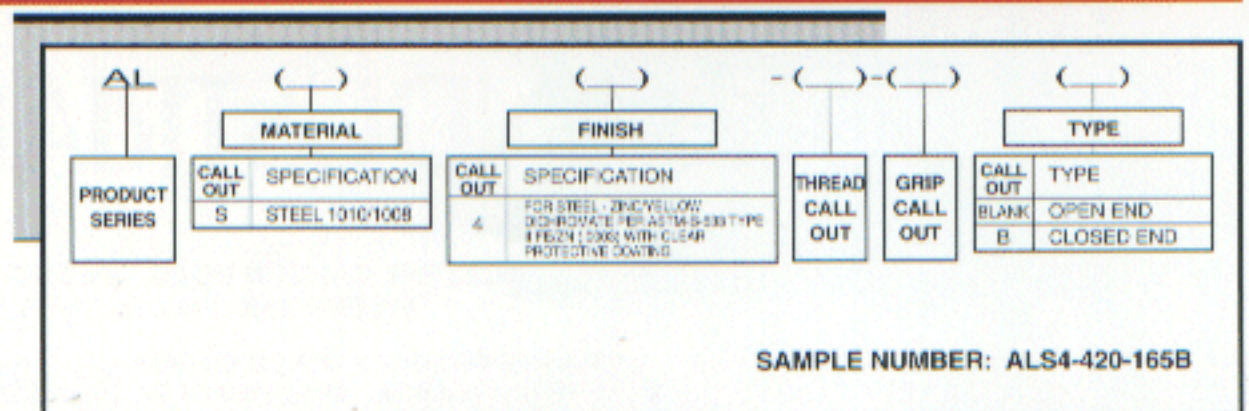
THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	HOLE SIZE +.006 -.000	A-L		A-K		L	D	IL	LB	ILB	IATD*	COMPLETE PISTOL TOOL PART NUMBER	TOOL RPM	DYNAMIC AIR PRESSURE SETTINGS PSI
					HD ±.010 ±.025*	HH ±.003	HD ±.010	HH ±.002									
6-32 UNC	632	.020-.080	80	17/64 (.2656)	.390	.030	.310	.019	.420	.285	.306	.740	.640	.610	AKPT30P632	3000	70 - 80
6-32 UNC	632	.080-.130	130	17/64 (.2656)	.390	.030	.310	.019	.470	.285	.306	.740	.580	.670	AKPT30P632	3000	70 - 80
8-32 UNC	832	.020-.080	80	17/64 (.2656)	.390	.030	.310	.019	.420	.285	.306	.740	.640	.610	AKPT30P632	3000	75 - 80
8-32 UNC	832	.080-.130	130	17/64 (.2656)	.390	.030	.310	.019	.470	.285	.306	.740	.580	.670	AKPT30P632	3000	75 - 80
10-24 UNC	1024	.020-.130	130	19/64 (.2969)	.415	.030	.340	.019	.475	.296	.315	.990	.845	.730	AKPT15P1024	1500	80 - 80
10-24 UNC	1024	.130-.225	225	19/64 (.2969)	.415	.030	.340	.019	.585	.296	.315	.990	.735	.840	AKPT15P1024	1500	80 - 80
10-32 UNF	1032	.020-.130	130	19/64 (.2969)	.415	.030	.340	.019	.475	.296	.315	.990	.845	.730	AKPT15P1032	1500	80 - 80
10-32 UNF	1032	.130-.225	225	19/64 (.2969)	.415	.030	.340	.019	.585	.296	.315	.990	.735	.840	AKPT15P1032	1500	80 - 80
1/4-20 UNC	420	.027-.165	165	25/64 (.3906)	.500	.030	.455	.022	.580	.380	.380	1.190	1.005	.895	AKPT9P420	900	70 - 80
1/4-20 UNC	420	.165-.260	260	25/64 (.3906)	.500	.030	.455	.022	.680	.380	.380	1.190	.905	1.035	AKPT9P420	900	70 - 80
5/16-18 UNC	518	.027-.150	150	17/32 (.5312)	.865*	.035	.595	.022	.690	.530	.470	1.390	1.175	.995	AKPT6P518	600	80 - 110
5/16-18 UNC	518	.150-.312	312	17/32 (.5312)	.865*	.035	.595	.022	.805	.530	.425	1.390	1.025	1.120	AKPT6P518	600	80 - 110
3/8-16 UNC	616	.027-.150	150	17/32 (.5312)	.865*	.035	.595	.022	.690	.530	.470	1.390	1.175	.995	AKPT6P616	600	80 - 110
3/8-16 UNC	616	.150-.312	312	17/32 (.5312)	.865*	.035	.595	.022	.805	.530	.425	1.390	1.025	1.120	AKPT6P616	600	80 - 110
1/2-13 UNC	813	.063-.200	200	11/16 (.6875)	.865*	.047	—	—	1.150	.665	.660	2.385	2.070	1.505	AKPT3P813	350	80 - 110
1/2-13 UNC	813	.200-.350	350	11/16 (.6875)	.865*	.047	—	—	1.300	.665	.660	2.385	1.920	1.505	AKPT3P813	350	80 - 110
1/2-13 UNC	813	.350-.500	500	11/16 (.6875)	.865*	.047	—	—	1.450	.665	.660	2.385	1.770	1.505	AKPT3P813	350	80 - 110
THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	HOLE SIZE +0.15 -0.00	HD ±0.25 ±0.64*	HH ±0.08	HD ±0.38	HH ±0.08	L	D	IL	LB	ILB	IATD*	COMPLETE PISTOL TOOL PART NUMBER	TOOL RPM	DYNAMIC AIR PRESSURE SETTINGS BARS
M4 x 0.7 ISO	470	0.50-2.00	2.0	6.75	9.91	0.76	7.87	0.48	10.67	6.73	7.75	18.80	16.26	15.49	AKPT30P470	3000	4.8 - 5.5
M4 x 0.7 ISO	470	2.00-3.30	3.3	6.75	9.91	0.76	7.87	0.48	11.94	6.73	7.75	18.80	14.73	17.02	AKPT30P470	3000	4.8 - 5.5
M5 x 0.8 ISO	580	0.50-3.30	3.3	7.60	10.54	0.76	8.64	0.48	12.07	7.52	8.00	25.15	21.46	18.54	AKPT15P580	1500	4.1 - 5.5
M5 x 0.8 ISO	580	3.30-5.70	5.7	7.60	10.54	0.76	8.64	0.48	14.86	7.52	8.00	25.15	18.67	21.34	AKPT15P580	1500	4.1 - 5.5
M6 x 1.0 ISO	610	0.70-4.20	4.2	10.00	12.70	0.76	11.56	0.55	14.73	9.91	9.85	30.23	25.53	22.73	AKPT9P610	900	4.8 - 6.2
M6 x 1.0 ISO	610	4.20-6.60	6.6	10.00	12.70	0.76	11.56	0.55	17.27	9.91	9.85	30.23	22.99	26.29	AKPT9P610	900	4.8 - 6.2
M8 x 1.25 ISO	8125	0.70-3.80	3.8	13.50	17.40*	0.89	15.11	0.55	17.53	13.46	11.94	35.31	28.85	25.27	AKPT6P8125	600	5.5 - 7.5
M8 x 1.25 ISO	8125	3.80-7.90	7.9	13.50	17.40*	0.89	15.11	0.55	20.45	13.46	10.80	35.31	26.04	28.45	AKPT6P8125	600	5.5 - 7.5
M10 x 1.5 ISO	1015	0.70-3.80	3.8	13.50	17.40*	0.89	15.11	0.55	17.53	13.46	11.94	35.31	28.85	25.27	AKPT6P1015	600	5.5 - 7.5
M10 x 1.5 ISO	1015	3.80-7.90	7.9	13.50	17.40*	0.89	15.11	0.55	20.45	13.46	10.80	35.31	26.04	28.45	AKPT6P1015	600	5.5 - 7.5
M12 x 1.75 ISO	12175	1.60-6.10	6.1	17.45	21.97*	1.19	—	—	29.21	17.4	21.59	60.07	52.58	38.23	AKPT3P12175	350	5.5 - 7.5
M12 x 1.75 ISO	12175	6.10-8.90	8.9	17.45	21.97*	1.19	—	—	33.02	17.4	21.59	60.07	46.77	38.23	AKPT3P12175	350	5.5 - 7.5
M12 x 1.75 ISO	12175	8.90-12.7	12.7	17.45	21.97*	1.19	—	—	36.83	17.4	21.64	60.07	44.96	38.23	AKPT3P12175	350	5.5 - 7.5

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, grip lengths and materials are available. Contact AVK for details.
 NOTE 3: *IATD dimensions in minimum grip condition.

Thread Specification:
 Unified — 2B/21 per ASME B1.1
 Metric — 6H/21 per ASME B1.13M

See back page of this brochure for additional design types.

PART NUMBERING SYSTEM



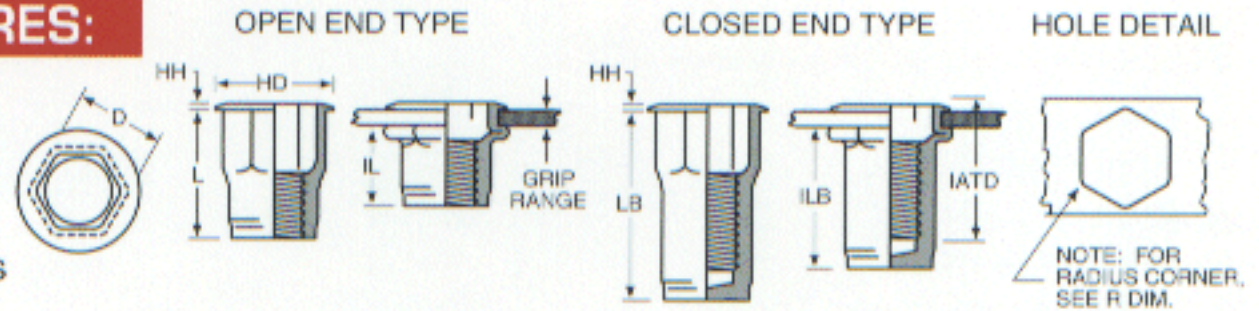
SAMPLE NUMBER: ALS4-420-165B

A-HTM SERIES INSERT

The **A-H SeriesTM** threaded insert is designed for use in punched hex holes. The A-H Series is ideal for applications requiring prevailing torque locking screws. The A-H Series threaded insert provides the ultimate in spin-out resistance and is compatible with Grade 5 or Metric Class 8.8/9.8 mating fasteners.

A-H SERIESTM FEATURES:

- ◆ Hex Body
- ◆ Internal Rolled Threads
- ◆ Wide Grip Range
- ◆ Low Profile Head
- ◆ Class 2B Unified Inch Threads
- ◆ Class 6H Metric Threads



THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	HOLE SIZE (ACROSS FLATS) +.004 -.000	HD ±.010 ±.025*	HH ±.003	L ±.015	D MAX.	IL MAX.	LB ±.015	ILB MAX.	IATD* MAX.	R MAX.	COMPLETE PISTOL TOOL PART NUMBER	TOOL RPM	DYNAMIC AIR PRESSURE SETTINGS PSI
6-32 UNC	632	.020-.080	80	.250	.375	.027	.385	.249	.295	.740	.640	.575	.015	AKPT30P632	3000	70 - 80
6-32 UNC	632	.060-.130	130	.250	.375	.027	.435	.249	.295	.740	.580	.640	.015	AKPT30P632	3000	70 - 80
8-32 UNC	832	.020-.080	80	.250	.375	.027	.385	.249	.295	.740	.640	.575	.015	AKPT30P832	3000	75 - 90
8-32 UNC	832	.080-.130	130	.250	.375	.027	.435	.249	.295	.740	.580	.640	.015	AKPT30P832	3000	75 - 90
10-24 UNC	1024	.020-.130	130	.281	.390	.027	.435	.280	.275	1.030	.845	.695	.020	AKPT15P1024	1500	60 - 80
10-24 UNC	1024	.130-.225	225	.281	.390	.027	.535	.280	.275	1.030	.735	.805	.020	AKPT15P1024	1500	60 - 80
10-32 UNF	1032	.020-.130	130	.281	.390	.027	.435	.280	.275	1.030	.845	.695	.020	AKPT15P1032	1500	60 - 80
10-32 UNF	1032	.130-.225	225	.281	.390	.027	.535	.280	.275	1.030	.735	.805	.020	AKPT15P1032	1500	60 - 80
1/4-20 UNC	420	.027-.165	165	.375	.510	.030	.585	.374	.400	1.190	1.015	.845	.040	AKPT9P420	900	70 - 90
1/4-20 UNC	420	.185-.260	260	.375	.510	.030	.685	.374	.400	1.190	.915	1.085	.040	AKPT9P420	900	70 - 90
5/16-18 UNC	518	.027-.150	150	.500	.655*	.035	.685	.499	.530	1.445	1.235	1.045	.040	AKPT6P518	600	80 - 110
5/16-18 UNC	518	.150-.312	312	.500	.655*	.035	.845	.499	.515	1.445	1.220	1.170	.040	AKPT6P518	600	80 - 110
3/8-16 UNC	616	.027-.150	150	.500	.655*	.035	.685	.499	.530	1.445	1.235	1.045	.040	AKPT6P616	600	80 - 110
3/8-16 UNC	616	.150-.312	312	.500	.655*	.035	.845	.499	.515	1.445	1.220	1.170	.040	AKPT6P616	600	80 - 110

THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	HOLE SIZE (ACROSS FLATS) +0.10 -0.00	HD ±0.25 ±0.64*	HH ±0.08	L ±0.38	D MAX.	IL MAX.	LB ±0.38	ILB MAX.	IATD* MAX.	R MAX.	COMPLETE PISTOL TOOL PART NUMBER	TOOL RPM	DYNAMIC AIR PRESSURE SETTINGS BARS
M4 x 0.7 ISO	470	0.50-2.00	2.0	6.35	9.53	0.88	9.78	6.35	7.49	18.80	16.26	14.61	.38	AKPT30P470	3000	4.8 - 5.5
M4 x 0.7 ISO	470	2.00-3.30	3.3	6.35	9.53	0.88	11.05	6.35	7.49	18.80	14.73	16.26	.38	AKPT30P470	3000	4.8 - 5.5
M5 x 0.8 ISO	580	0.50-3.30	3.3	7.14	9.91	0.88	11.05	7.10	6.99	26.18	21.46	17.85	.50	AKPT15P580	1500	4.1 - 5.5
M5 x 0.8 ISO	580	3.30-5.70	5.7	7.14	9.91	0.88	13.59	7.10	6.99	26.18	18.67	20.45	.50	AKPT15P580	1500	4.1 - 5.5
M6 x 1.0 ISO	610	0.70-4.20	4.2	9.53	12.96	0.76	14.86	9.50	10.16	30.23	25.78	24.00	1.0	AKPT9P610	900	4.8 - 6.2
M6 x 1.0 ISO	610	4.20-6.60	6.6	9.53	12.96	0.76	17.40	9.50	10.16	30.23	23.24	27.56	1.0	AKPT9P610	900	4.8 - 6.2
M8 x 1.25 ISO	8125	0.70-3.8	3.8	12.70	16.64*	0.89	17.40	12.70	13.46	36.70	31.37	26.54	1.0	AKPT6P8125	600	5.5 - 7.5
M8 x 1.25 ISO	8125	3.8-7.90	7.9	12.70	16.64*	0.89	21.46	12.70	13.08	36.70	30.99	29.72	1.0	AKPT6P8125	600	5.5 - 7.5
M10 x 1.5 ISO	1015	0.70-3.8	3.8	12.70	16.64*	0.89	17.40	12.70	13.46	36.70	31.37	26.54	1.0	AKPT6P1015	600	5.5 - 7.5
M10 x 1.5 ISO	1015	3.8-7.90	7.9	12.70	16.64*	0.89	21.46	12.70	13.08	36.70	30.99	29.72	1.0	AKPT6P1015	600	5.5 - 7.5

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

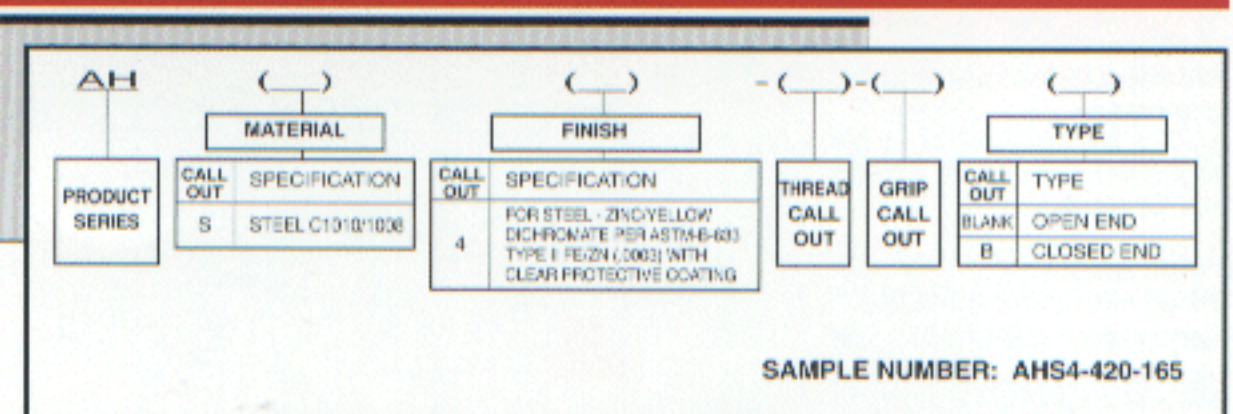
NOTE 2: Additional UNF fine threads, grip lengths and materials are available. Contact AVK for details.

NOTE 3: *IATD dimensions in minimum grip condition.

Thread Specification:
Unified — 2B/21 per ASME B1.1
Metric — 6H/21 per ASME B1.13M

See back page of this brochure for additional design types.

PART NUMBERING SYSTEM



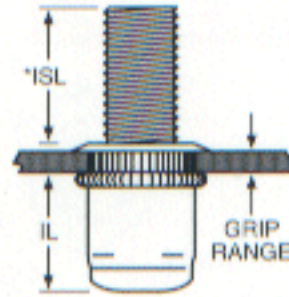
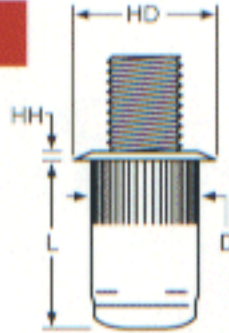
SAMPLE NUMBER: AHS4-420-165



The **A-S Series™** threaded stud is ideal for blind applications that require protruding threads. The mating component can be located or suspended on the A-S Series threaded stud before assembly of the mating fastener. The A-S Series threaded stud is compatible with Grade 5 or Metric Class 8.8/9.8 mating fasteners

A-S SERIES™ FEATURES:

- ◆ Protruding Stud
- ◆ Axial Knurled Body
- ◆ Wide Grip Range
- ◆ Low Profile Head
- ◆ Class 2A Unified Inch Threads
- ◆ Class 6g Metric Threads



* NOTE: ISL (INSTALLED STUD LENGTH) DIMENSION IS BASED ON MAX. GRIP INSTALLATION. TO CALCULATE THE ACTUAL ISL IN A SPECIFIC GRIP, USE THE FOLLOWING FORMULA.

$$\text{MAX. GRIP} - \text{ACTUAL GRIP} = \text{GRIP DIFFERENCE}$$

$$\text{ISL} + \text{GRIP DIFFERENCE} = \text{ACTUAL ISL}$$

THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	STUD LENGTHS MIN.			HOLE SIZE +.006 -.000	HD ±.010 ±.025*	HH ±.003	L ±.020	D MAX.	IL MAX.	COMPLETE PISTOL TOOL PART NUMBER	TOOL RPM	DYNAMIC AIR PRESSURE SETTINGS PS
				ISL CALL OUT	ISL CALL OUT	ISL CALL OUT									
6-32 UNC	632	.020-.080	80	.500	.625	.750	17/64 (.2656)	.390	.030	.485	.285	.360	ASPT30P632	3000	70 - 80
				500	625	750									
6-32 UNC	632	.080-.130	130	.450	.575	.700	17/64 (.2656)	.390	.030	.535	.285	.360	ASPT30P632	3000	70 - 80
				450	575	700									
8-32 UNC	832	.020-.080	80	.500	.625	.750	17/64 (.2656)	.390	.030	.485	.285	.360	ASPT30P832	3000	75 - 90
				500	625	750									
8-32 UNC	832	.080-.130	130	.450	.575	.700	17/64 (.2656)	.390	.030	.535	.285	.360	ASPT30P832	3000	75 - 90
				450	575	700									
10-24 UNC	1024	.020-.130	130	.500	.625	.750	19/64 (.2969)	.415	.030	.545	.296	.380	ASPT15P1024	1500	60 - 80
				500	625	750									
10-24 UNC	1024	.130-.225	225	.405	.530	.655	19/64 (.2969)	.415	.030	.655	.296	.380	ASPT15P1024	1500	60 - 80
				405	530	655									
10-32 UNF	1032	.020-.130	130	.500	.625	.750	19/64 (.2969)	.415	.030	.545	.296	.380	ASPT15P1032	1500	60 - 80
				500	625	750									
10-32 UNF	1032	.130-.225	225	.405	.530	.655	19/64 (.2969)	.415	.030	.655	.296	.380	ASPT15P1032	1500	60 - 80
				405	530	655									
1/4-20 UNC	420	.027-.165	165	.625	.8125	1.000	25/64 (.3906)	.500	.030	.670	.390	.465	ASPT9P420	900	70 - 90
				625	8125	1000									
1/4-20 UNC	420	.165-.260	260	.530	.7175	.905	25/64 (.3906)	.500	.030	.770	.390	.465	ASPT9P420	900	70 - 90
				530	7175	905									
5/16-18 UNC	518	.027-.150	150	.625	.875	1.125	17/32 (.5312)	.685*	.035	.810	.530	.555	ASPT6P518	600	80 - 110
				625	875	1125									
5/16-18 UNC	518	.150-.312	312	.483	.713	.963	17/32 (.5312)	.685*	.035	.925	.530	.510	ASPT6P518	600	80 - 110
				483	713	963									
3/8-16 UNC	616	.027-.150	150	.750	1.000	1.250	17/32 (.5312)	.685*	.035	.810	.530	.555	ASPT6P616	600	80 - 110
				750	1000	1250									
3/8-16 UNC	616	.150-.312	312	.588	.838	1.088	17/32 (.5312)	.685*	.035	.925	.530	.510	ASPT6P616	600	80 - 110
				588	838	1088									

THREAD SIZE	THREAD CALL OUT	GRIP RANGE	GRIP CALL OUT	STUD LENGTHS MIN.			HOLE SIZE +.015 -.000	HD ±.025 ±.064*	HH ±.008	L ±.050	D MAX.	IL MAX.	COMPLETE PISTOL TOOL PART NUMBER	TOOL RPM	DYNAMIC AIR PRESSURE SETTINGS BARS
				ISL CALL OUT	ISL CALL OUT	ISL CALL OUT									
M4x0,7 ISO	470	0,50-2,00	2.0	12,0	15,0	20,0	6,75	9,91	0,76	12,32	6,73	9,15	ASPT30P470	3000	4,8 - 5,5
				12	15	20									
M4x0,7 ISO	470	2,00-3,30	3.3	10,7	13,7	18,7	6,75	9,91	0,76	13,59	6,73	9,15	ASPT30P470	3000	4,8 - 5,5
				10,7	13,7	18,7									
M5x0,8 ISO	580	0,50-3,30	3.3	12,0	15,0	20,0	7,60	10,54	0,76	13,64	7,52	9,65	ASPT15P580	1500	4,1 - 5,5
				12	15	20									
M5x0,8 ISO	580	3,30-5,70	5.7	9,6	12,6	17,6	7,60	10,54	0,76	16,64	7,52	9,65	ASPT15P580	1500	4,1 - 5,5
				9,6	12,6	17,6									
M6x1,0 ISO	610	0,70-4,20	4.2	15,0	20,0	25,0	10,00	12,70	0,76	17,02	9,91	11,61	ASPT9P610	900	5,5 - 6,2
				15	20	25									
M6x1,0 ISO	610	4,20-6,60	6.6	12,6	17,6	22,6	10,00	12,70	0,76	19,56	9,91	11,61	ASPT9P610	900	5,5 - 6,2
				12,6	17,6	22,6									
M8x1,25 ISO	8125	0,70-3,8	3.8	16,0	22,0	28,0	13,50	17,40*	0,89	20,57	13,46	14,10	ASPT6P8125	600	5,5 - 7,5
				16	22	28									
M8x1,25 ISO	8125	3,8-7,90	7.9	11,9	17,9	23,9	13,50	17,40*	0,89	23,50	13,46	12,96	ASPT6P8125	600	5,5 - 7,5
				11,9	17,9	23,9									
M10x1,5 ISO	1015	0,70-3,8	3.8	20,0	25,0	30,0	13,50	17,40*	0,89	20,57	13,46	14,10	ASPT6P1015	600	5,5 - 7,5
				20	25	30									
M10x1,5 ISO	1015	3,8-7,90	7.9	15,9	20,9	25,9	13,50	17,40*	0,89	23,50	13,46	12,96	ASPT6P1015	600	5,5 - 7,5
				15,9	20,9	25,9									

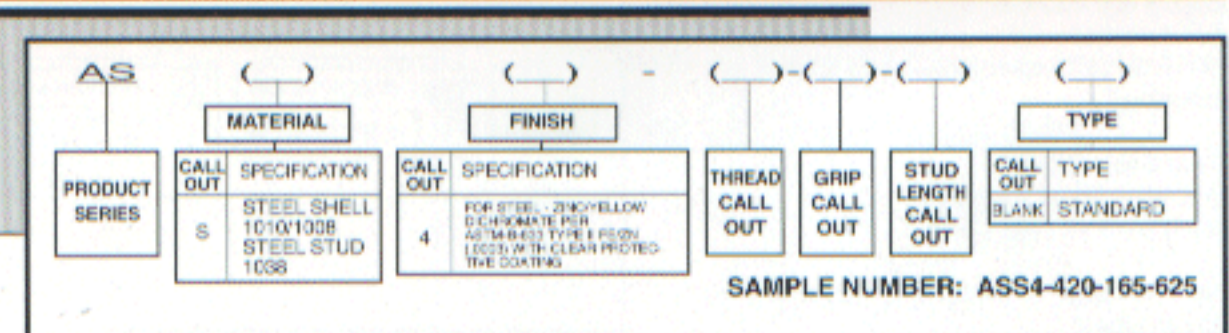
NOTE 1: Grip range can be affected by parent material density and actual hole size. AVK suggests trial installations to determine optimum grip.

NOTE 2: Additional UNF fine threads, grip lengths and materials are available. Contact AVK for details.


Thread Specification:
Unified — 2A/21 per ASME B1.1
Metric — 6g/21 per ASME B1.13M

See back page of this brochure for additional design types.

PART NUMBERING SYSTEM



ADDITIONAL PRODUCTS FROM AVK

 <p>A-L SERIES™ SEALED HEAD</p> <ul style="list-style-type: none"> ◆ Under head PVC seal ◆ Seal out weather ◆ Seal out dust 	 <p>A-L SERIES™ WEDGE HEAD</p> <ul style="list-style-type: none"> ◆ Wedges under head ◆ Increased spin out resistance ◆ Ideal for SMC plastics 	 <p>A-H SERIES™ SEALED HEAD</p> <ul style="list-style-type: none"> ◆ Under head seal ◆ Seal out weather ◆ Seal out dust ◆ Ultimate spin out resistance
 <p>A-S SERIES™ SEALED HEAD STUD</p> <ul style="list-style-type: none"> ◆ Under head PVC seal ◆ Seal out weather ◆ Seal out dust 	 <p>A-S SERIES™ WEDGE HEAD STUD</p> <ul style="list-style-type: none"> ◆ Wedges under head ◆ Increased spin out resistance ◆ Ideal for SMC plastics 	 <p>A-R SERIES™</p> <ul style="list-style-type: none"> ◆ Large backside footprint ◆ Installs with ARO tool ◆ Ideal for all types of plastics
 <p>R-N SERIES™ RIVET NUT</p> <ul style="list-style-type: none"> ◆ Thick head and body ◆ Exceptional push out strength ◆ Ideal for leg-leveling attachments 	 <p>A-T SERIES™</p> <ul style="list-style-type: none"> ◆ Installs in any thickness material ◆ Underhead knurl ◆ Available in stainless steel 	 <p>A-W SERIES™</p> <ul style="list-style-type: none"> ◆ Installs in any thickness material ◆ Full diamond knurl
 <p>A-O SERIES™</p> <ul style="list-style-type: none"> ◆ Low profile head ◆ Available in steel 	<p>ARO INLINE TOOL</p>  <p>The Inline Style Tool is designed for vertical installations.</p>	<p>ARO RIGHT ANGLE TOOL</p>  <p>The Right Angle Style Tool is designed for limited access applications.</p>

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SPINWALL TECHNOLOGY
BROCHURE STB-1