



AVK INDUSTRIAL PRODUCTS
FASTENERS & EIPG DIVISION, A PCC COMPANY

*"Improving the way
we assemble the world"*

World market leader of design, development and manufacturing of blind installed fasteners

HOME PRODUCTS INSTALLATION TOOLS APPLICATIONS SALES REPS. SUPPLIER SUPPORT CONTACT US



The A-H Series™ provides exceptional spin out resistance in punched hex holes and is recommended for use with mating thread-locking fasteners.

A-H SERIES™ THREADED HEX INSERT

A-H Series™ Threaded Hex Insert features a radius corner hex body. When installed into a corresponding hex hole, the radius corners of the A-H Insert expand and fill the hole corners providing exceptional resistance to spinning in the panel. The A-H Series™ is designed to be used with Grade 5 or Metric Class 8.8/9.8 mating screws.

A-H Series™ Threaded Hex Insert can be installed using AVK's ARO brand Pneumatic Tools or AVK's SPP™ Pneumatic/Hydraulic Tools. These tools can be located at any position on your assembly line. The A-H Insert can be installed either before or after finish.

Design Benefits

Design Types

Installation Video

Part Numbering System

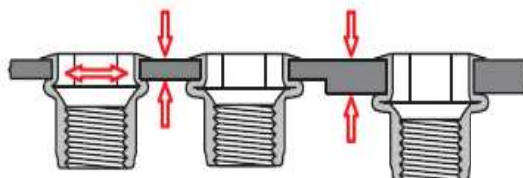
Thread Sizes

THE A-H SERIES™ INSERT – DESIGN BENEFITS

-  **EXCEPTIONAL** resistance to spinning in the panel is achieved as the A-H Series™ hex body expands **FILLING THE HOLE**.
-  **AVOID STRESS FRACTURES** of your material and prolong punch and die life by specifying a radius corner in your hex hole. This is possible when using the A-H Series™ radius hex body insert.
-  **QUALITY INSTALLATIONS** even in variable thickness materials are assured by AVK's spin/spin ARO Pneumatic Tools and our Pneumatic/Hydraulic SPP2 Tool™.
-  **SUPERIOR THREAD STRENGTH** is provided due to our internal rolled thread manufacturing process.
-  **THREADS GAUGE** before and after installation due to the increased cross-sectional thickness of the thread area. Thread dilation is prevented.
-  **INVENTORY REDUCTION** is possible because of the A-H Series™ wide grip range capacity. It is 2.5 times greater than conventional rivet nuts.
-  **SUPERIOR CORROSION RESISTANCE** is provided by our standard zinc/yellow trivalent finish (120 hrs. salt spray to white corrosion). For exceptional corrosion protection we offer a tin/zinc alloy finish.
-  **AVAILABLE in steel.** Additional materials such as aluminum, brass and monel are available by special order. Contact an AVK Sales Representative.

SPINWALL TECHNOLOGY™ HOW HOLE FILL WORKS FOR YOU

As the A-H Series™ is installed, the radius cornered hex body expands **FILLING THE HOLE**. This feature provides exceptional torque strength and vibration resistance.



The installation tool then continues to install the insert forming a backside flange even in multiple or variable thickness materials **—WITHOUT ADJUSTMENT.**



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[Design Benefits](#)

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[Part Numbering System](#)

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THE A-H SERIES™ INSERT - VARIOUS DESIGN TYPES



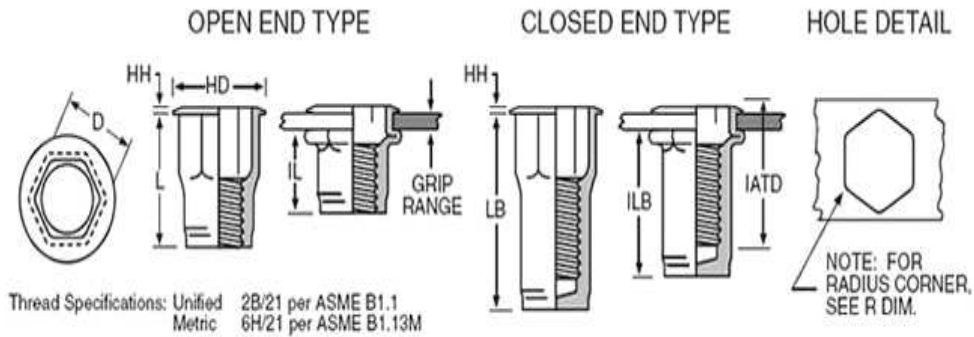
CLOSED END

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

SEALED HEAD

A PVC foam seal is bonded to the underside of the head and when installed provides a weathertight seal. Also available in the closed end version.

THE A-H SERIES™ INSERT – THREAD SIZES



Unified (Inch) and Metric Thread Sizes

Thread Size	Thread Call Out	Grip Range	Grip Call Out	Hole Size (across flats) +0.004 -0.000	HD ±.010 ±0.25*	HH ±.003	L ±.015	D Max.	IL Max.	LB ±.015	ILB Max	IATD** Max.	R Max.
6-32 UNC	632	.020-.080	80	.250	.375	.027	.385	.249	.295	.740	.640	.575	.015
6-32 UNC	632	.080-.130	130	.250	.375	.027	.435	.249	.295	.740	.580	.640	.015
8-32 UNC	832	.020-.080	80	.250	.375	.027	.385	.249	.295	.740	.640	.575	.015
8-32 UNC	832	.080-.130	130	.250	.375	.027	.435	.249	.295	.740	.580	.640	.015
10-24 UNC	1024	.020-.130	130	.281	.390	.027	.435	.280	.275	1.030	.845	.695	.020
10-24 UNC	1024	.130-.225	225	.281	.390	.027	.535	.280	.275	1.030	.735	.805	.020
10-32 UNF	1032	.020-.130	130	.281	.390	.027	.435	.280	.275	1.030	.845	.695	.020
10-32 UNF	1032	.130-.225	225	.281	.390	.027	.535	.280	.275	1.030	.735	.805	.020
1/4-20 UNC	420	.027-.165	165	.375	.510	.030	.585	.374	.400	1.190	1.015	.945	.040
1/4-20 UNC	420	.165-.260	260	.375	.510	.030	.685	.374	.400	1.190	.915	1.085	.040
5/16-18 UNC	518	.027-.150	150	.500	.655*	.035	.685	.499	.530	1.445	1.235	1.045	.040
5/16-18 UNC	518	.150-.312	312	.500	.655*	.035	.845	.499	.515	1.445	1.220	1.170	.040
3/8-16 UNC	616	.027-.150	150	.500	.655*	.035	.685	.499	.530	1.445	1.235	1.045	.040
3/8-16 UNC	616	.150-.312	312	.500	.655*	.035	.845	.499	.515	1.445	1.220	1.170	.040

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.
M4 x 0,7 ISO	470	0,50-2,00	2.0	6,35	9,53	0,68	9,78	6,35	7,49	18,80	16,26	14,61	,38
M4 x 0,7 ISO	470	2,00-3,30	3.3	6,35	9,53	0,68	11,05	6,35	7,49	18,80	14,73	16,26	,38
M5 x 0,8 ISO	580	0,50-3,30	3.3	7,14	9,91	0,68	11,05	7,10	6,99	26,16	21,46	17,65	,50
M5 x 0,8 ISO	580	3,30-5,70	5.7	7,14	9,91	0,68	13,59	7,10	6,99	26,16	18,67	20,45	,50
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
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
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
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
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
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

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: Available in additional materials and sizes. Contact AVK for details.

**Dimensions in minimum grip condition.