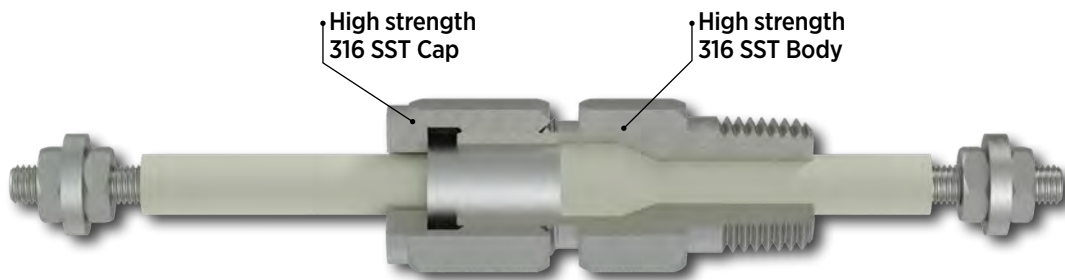


# HEGPK High performance electrode sealing to 8000VDC



Like the EGT Feedthrough, HEGPK Feedthroughs electrically and thermally insulate single electrodes, tubes, temperature sensors, etc. while passing into a vacuum or pressurized environment. These bare electrical feedthroughs also seal against gases and liquids and resist electrode movement under pressure. The HEGPK differs from the EGT in that the single piece insulator/sealant is manufactured from PEEK™, which is recognized as one of the highest performing engineered thermoplastic materials currently available.

The HEGPKs provide several distinct advantages over the EGT:

- HEGPKs have higher pressure ratings at room temperature
- HEGPKs also have improved sealing performance at elevated temperatures.

HEGPK bodies with NPT or SAE threads are constructed from 303 SST standard. Weld neck style are constructed from 316 SST standard. Followers for all styles are constructed from 303 SST standard. Optional materials of construction are available.

Cap Style A offers a process mounting thread only. Cap Style B provides threading on both ends for attachment to conduit or terminal heads. Please consult a Conax Technologies sales engineer for custom needs.

Conductors are available in Copper, Nickel and 303 SST. Use of Nickel rather than Copper is recommended in oxidizing atmospheres. Custom conductors, such as nickel-plated copper, are also available, consult factory.

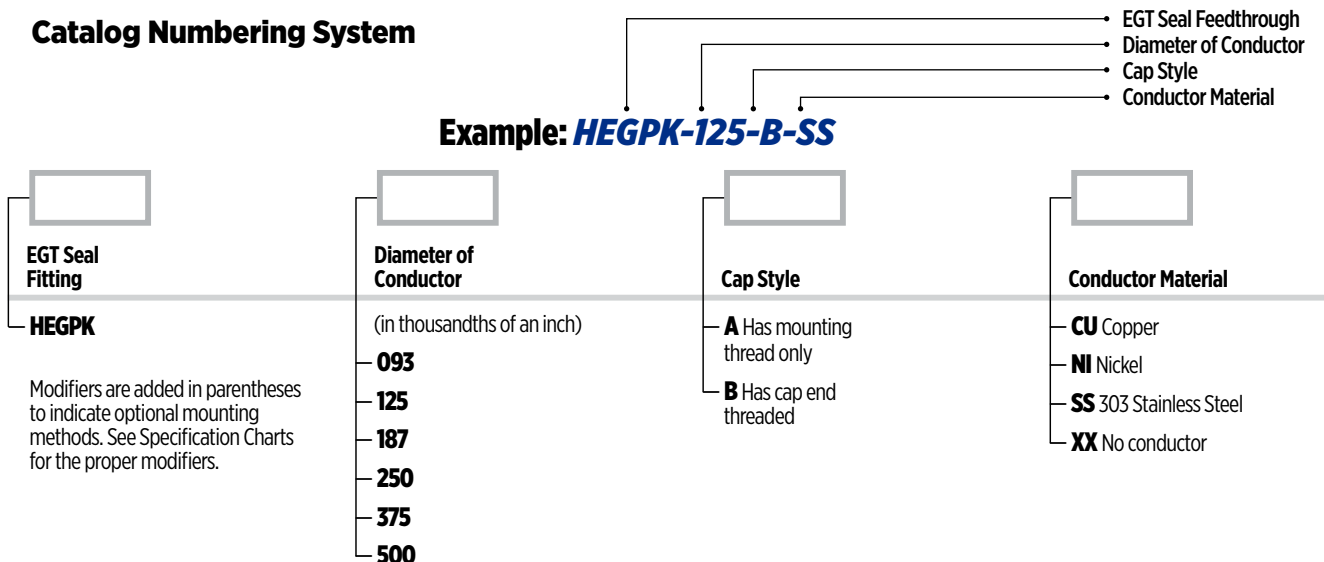
- Temperature Range: 0 °F to 480 °F
- Pressure Range: Vacuum to 7,700 PSIG (531 bar)
- Voltage Rating: to 8000VDC
- Amperage Rating: to 200 amp
- Supplied with or without conductor

### Accessories

The replaceable single piece insulator/sealant permits repeated use of the same fitting. Conductors may be easily assembled or replaced in the field. To replace the insulator/sealant or conductor, simply loosen the cap, replace necessary items, relubricate and retorque the cap. HEGPKs are supplied factory lubricated. When reused, they should be relubricated to maintain the published pressure ratings. If HEGPKs are cleaned prior to assembly, they should be relubricated. On weld models, the heat from the welding process will destroy the lubricant. These models must also be cleaned and relubricated prior to use. See page 107 for information on our lubrication kit. To order a replacement insulator/sealant, order RS-HEGPK-(Diameter).

### Catalog Numbering System

Example: **HEGPK-125-B-SS**



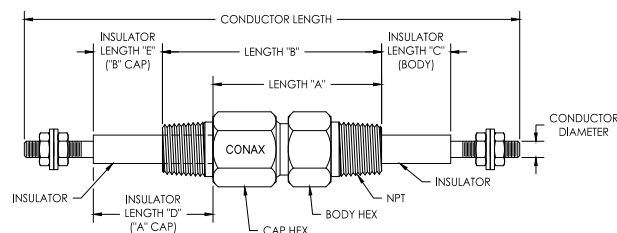
## Specifications

HEGPK Series Single Electrode Sealing—Hex	Conductor				Amperage Rating			Voltage Rating	Length				Hex Size				Pressure Rating	
	Standard		Standard		(@ 30 °C, 90 °C max)				Length A		Length B		Body	Cap	Body	Cap	PEEK™	
	Dia.	Length	Dia.	Length	CU	NI	SS	DC	IN	MM	IN	MM	IN	IN	MM	MM	PSIG	BAR
	Catalog Number	IN	IN	MM	MM													
<b>Standard 1/4" NPT</b>																		
HEGPK-125	0.120	5.0	3.05	127	40	15	6	8,000	2.00	50.8	2.63	66.7	0.750	0.750	19.1	19.1	7,700	530
<b>Weld Neck (Weld Neck Length 0.59", Diameter 0.54")*</b>																		
HEGPK(SWM2/S316L)-125	0.120	5.0	3.05	127	40	15	6	8,000	2.00	50.8	2.63	66.7	0.750	0.750	19.1	19.1	7,700	530
<b>SAE 9/16-18 Thread Mount (formerly MS)</b>																		
HEGPK(MSE6/)-125	0.120	5.0	3.05	127	40	15	6	8,000	2.00	50.8	2.63	66.7	0.813	0.750	20.7	19.1	7,700	530
<b>Standard 1/2" NPT</b>																		
HEGPK-187	0.182	6.5	4.62	165	60	25	9	8,000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	6,000	410
HEGPK-250	0.245	6.5	6.22	165	95	40	15	8,000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	4,200	289
<b>Weld Neck (Weld Neck Length 0.78", Diameter 0.84")*</b>																		
HEGPK(SWM4/S316L)-187	0.182	6.5	4.62	165	60	25	9	8,000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	6,000	410
HEGPK(SWM4/S316L)-250	0.245	6.5	6.22	165	95	40	15	8,000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	4,200	289
<b>SAE 3/4-16 Thread Mount (formerly MS)</b>																		
HEGPK(MSE8/)-187	0.182	6.5	4.62	165	60	25	9	8,000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	6,000	410
HEGPK(MSE8/)-250	0.245	6.5	6.22	165	95	40	15	8,000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	4,200	289
<b>Standard 3/4" NPT</b>																		
HEGPK-375	0.370	8.5	9.40	216	160	65	24	8,000	2.88	73.0	3.63	92.1	1.250	1.500	31.8	38.1	4,000	275
HEGPK-500	0.495	8.5	12.57	216	200	80	30	8,000	2.88	73.0	3.63	92.1	1.250	1.500	31.8	38.1	3,500	240
<b>Weld Neck (Weld Neck Length 0.79", Diameter 1.05")*</b>																		
HEGPK(SWM5/S316L)-375	0.370	8.5	9.40	216	160	65	24	8,000	2.88	73.0	3.63	92.1	1.250	1.500	31.8	38.1	4,000	275
HEGPK(SWM5/S316L)-500	0.495	8.5	12.57	216	200	80	30	8,000	2.88	73.0	3.63	92.1	1.250	1.500	31.8	38.1	3,500	240
<b>SAE 1-5/16-12 Thread Mount (formerly MS)</b>																		
HEGPK(MSE16/)-375	0.370	8.5	9.53	216	160	65	24	8,000	2.88	73.0	3.63	92.1	1.625	1.500	41.3	38.1	4,000	275
HEGPK(MSE16/)-500	0.495	8.5	12.57	216	200	80	30	8,000	2.88	73.0	3.63	92.1	1.625	1.500	41.3	38.1	3,500	240

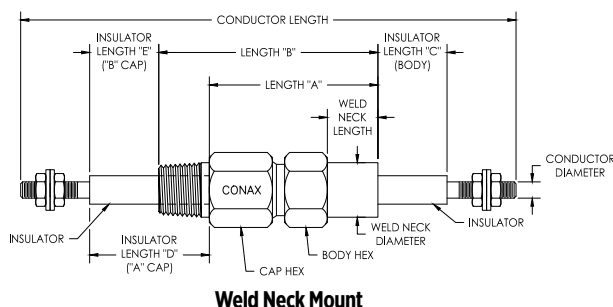
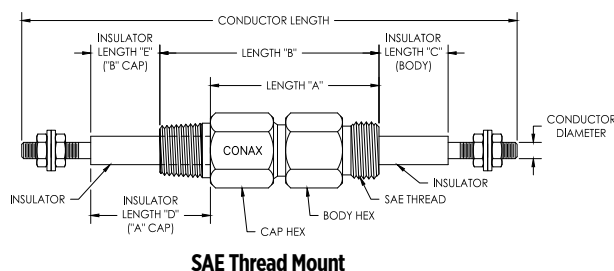
\*Weld neck models require lubrication prior to use.  
 Note: The pressure and torque ratings provided in this catalog apply only when bores are drilled by Conax Technologies. Custom bore sizes and/or a blank body, follower and/or sealant may be provided. Consult factory.  
 All pressure and torque ratings were determined at 68 °F (20 °C) using copper as the element. Pressure ratings may degrade at higher temperatures. Pressure rating guide values are provided for feedthroughs with elements restrained by the compressed sealant. Higher pressure may be attained with additional element restraints. For proper assembly of these feedthroughs, see the Assembly Instructions provided on pages 112-126.

HEGPK Series		Length (inches)		
Cap Style	Process Connection	C	D	E
Hex	1/4" NPT & 0.540" Weld Neck	0.52	0.98	0.39
Hex	1/2" NPT & 0.840" Weld Neck	0.72	1.52	0.80
Hex	3/4" NPT & 1.050" Weld Neck	1.09	1.72	0.93
For SAE threads, all sizes – Consult Factory		C/F	C/F	C/F

### Hex Style



### Standard 3/4 NPT



**Weld Neck Mount**

**SAE Thread Mount**

A series of horizontal lines intended for writing notes or acknowledgements.

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