

High Performance Electrode Seal Fitting

With Single PEEK™ Insulator (up to 8,000 Volts)



Like the EGT Gland, Conax Technologies HEGPK Glands electrically and/or thermally insulate single electrodes, tubes or temperature sensors for use in vacuum furnaces, liquid level probes, transformers, environmental chambers, power leads and more. These bare electrical feedthroughs also seal against gases and liquids and resist electrode (also known as conductor) movement under pressure. The HEGPK Gland differs from the EGT gland 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 HEGPK Glands provide several distinct advantages over Conax's EGT Gland:

- HEGPK Glands have higher pressure ratings at room temperature (typically in excess of 250%), as compared to Conax's EGT Gland.
- HEGPK Glands also have improved sealing performance at elevated temperatures, as compared to EGT glands.

HEGPK gland bodies with NPT threads or SAE threads are constructed from 303SST standard. Weld-neck style glands are constructed from 316SST standard. Caps and followers for all styles are constructed from 303SST standard. Many optional materials are also 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 303SST. Use of Nickel rather than Copper is recommended in oxidizing atmospheres. Custom conductors, such as nickel-plated copper, are also available. Please consult the factory.

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

Accessories

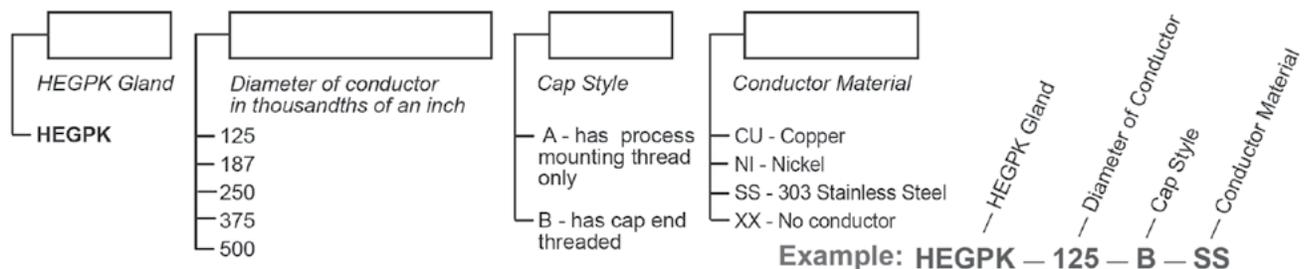
The replaceable single piece insulator/sealant permits repeated use of the same fitting. Conductors can be easily assembled or replaced in the field. To replace the insulator/sealant or conductor, simply loosen the cap, replace necessary items, relubricate and retorque the cap.

Glands are supplied factory lubricated. When reused, the glands should be relubricated to maintain the published pressure ratings. If glands are cleaned prior to assembly, they should be relubricated. On weld models, the heat from the welding process may destroy the lubricant. These models must also be cleaned and relubricated prior to use. See page 103 in Catalog 5001 for information on our lubrication kit.

To order a replacement insulator/sealant, order RS - (Gland) - (Diameter)

Example : RS-HEGPK-125

Catalog Numbering System

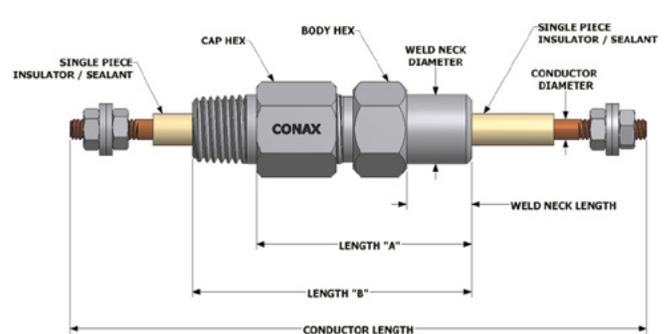
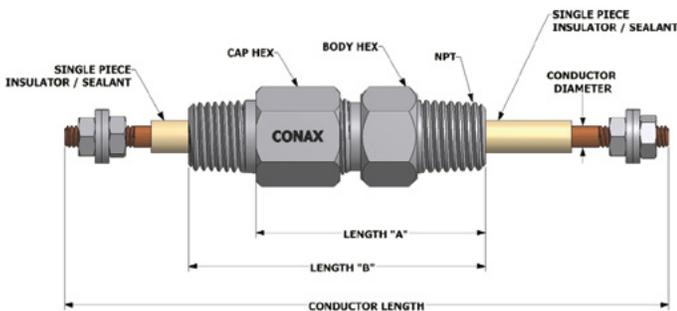


Ideas. Solutions. Success.

Specifications

Catalog Number	Conductor				Amperage Rating (@ 30°C, 90°C max)			Voltage Rating	Length 'A'		Length 'B'		Hex Size				Pressure Rating PEEK	
	Diam. IN	Std. Length IN	Diam. MM	Std. Length MM	CU	NI	SS		IN	MM	IN	MM	Body IN	Cap IN	Body MM	Cap MM	PSIG	BAR
Standard 1/4 NPT																		
HEGPK-125	0.120	5.00	3.05	127.0	40	15	6	8000	2.00	50.8	2.63	66.7	0.750	0.750	19.1	19.1	7700	530
Weld Neck (Weld Neck Length 0.59", Diameter 0.540")**																		
HEGPK(SWM2/S316L)-125	0.120	5.00	3.05	127.0	40	15	6	8000	2.00	50.8	2.63	66.7	0.750	0.750	19.1	19.1	7700	530
SAE 9/16-18 Thread Mount (formerly MS)																		
HEGPK(MSE6)-125	0.120	5.00	3.05	127.0	40	15	6	8000	2.00	50.8	2.63	66.8	0.813	0.750	20.7	19.1	7700	530
Standard 1/2 NPT																		
HEGPK-187	0.182	6.50	4.62	165.1	60	25	9	8000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	6000	410
HEGPK-250	0.245	6.50	6.22	165.1	95	40	15	8000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	4200	289
Weld Neck (Weld Neck Length 0.78", Diameter 0.840")**																		
HEGPK(SWM4/S316L)-187	0.182	6.50	4.62	165.1	60	25	9	8000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	6000	410
HEGPK(SWM4/S316L)-250	0.245	6.50	6.22	165.1	95	40	15	8000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	4200	290
SAE 3/4-16 Thread Mount (formerly MS)																		
HEGPK(MSE8)-187	0.182	6.50	4.62	165.1	60	25	9	8000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	6000	410
HEGPK(MSE8)-250	0.245	6.50	6.22	165.1	95	40	15	8000	2.56	65.1	3.31	84.1	1.000	1.000	25.4	25.4	4200	290
Standard 3/4 NPT																		
HEGPK-375	0.370	8.50	9.40	215.9	160	65	24	8000	2.88	73.0	3.63	92.2	1.250	1.500	31.8	38.1	4000	275
HEGPK-500	0.495	8.50	12.57	215.9	200	80	30	8000	2.88	73.0	3.63	92.1	1.250	1.500	31.8	38.1	3500	240
Weld Neck (Weld Neck Length 0.79", Diameter 1.050")**																		
HEGPK(SWM5/S316L)-375	0.370	8.50	9.40	215.9	160	65	24	8000	2.88	73.0	3.63	92.1	1.250	1.500	31.8	38.1	4000	275
HEGPK(SWM5/S316L)-500	0.495	8.50	12.57	215.9	200	80	30	8000	2.88	73.0	3.63	92.1	1.250	1.500	31.8	38.1	3500	240
SAE 1-5/16 -12 Thread Mount (formerly MS)																		
HEGPK(MSE16)-375	0.370	8.50	9.40	215.9	160	65	24	8000	2.88	73.0	3.63	92.2	1.625	1.500	41.3	38.1	4000	275
HEGPK(MSE16)-500	0.495	8.50	12.57	215.9	200	80	30	8000	2.88	73.0	3.63	92.2	1.625	1.500	41.3	38.1	3500	240

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 glands with elements restrained by the compressed sealant. Higher pressure may be attained with additional element restraints. For proper assembly of these sealing glands, see the Assembly Instructions provided in Catalog 5001.



2300 Walden Avenue, Buffalo, New York 14225
 +1 800 223 2389 (P) | +1 716 684 7433 (F)
 conax@conaxtechnologies.com  Made in U.S.A.
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