

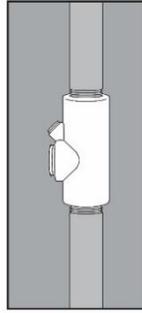
EYS Sealing Fitting

UL Listed: File .E472023, UL Standard 1203
ASTM A351, ASTM A276, ASME B1.20.1-2013

Installation:

The National Electric Code® (NEC) in Article 501, Section 501.15, requires that seals be installed in specific places in Class I, Divisions 1 and 2 locations. This is to minimize the passage of gases and vapors and prevent the passage of flames through the conduit from one section of the electrical installation to another.

Conduit seals are not intended to prevent the passage of liquids, gases or vapors at a continuous pressure differential across the seal. Even at differences in pressure across the seal equivalent to a few inches of water, there may be a slow passage of gas or vapor through the seal and through the conductors passing through the seal.



The Code in Article 502, Section 502.15 requires seals in Class II, Divisions 1 and 2 locations under certain conditions.

While not Code requirement, it is considered good practice to sectionalize long conduit runs, inserting seals not more than 50 to 100 feet apart, depending on conduit size, to minimize effects of pressure piling.

Gibson Stainless & Specialty, Inc. (GSS) sealing fittings meet these requirements. GSS sealing fittings are listed by Underwriters! Laboratories, Inc., (UL) for use in Class I and Class II hazardous locations with Crouse-Hinds Chico® A sealing compound and Crouse-Hinds Chico® X fiber only. When properly mixed and poured, Crouse-Hinds Chico® A sealing compound hardens into a dense, strong mass which is insoluble in water, is not attacked by petroleum products, and is not softened by heat. It will withstand, with ample safety factor, pressure of the expanding trapped gases or vapor.

Conductors sealed in the compound should be approved thermoplastic or rubber-insulated type.

⚠ CAUTION

Refer to table to determine the maximum number and size of conductors allowed in a seal.

Maximum Number of Conductors that can be Sealed in a GSS EYS Sealing Fitting

Size AWG or KCMil	¾" Conduit		1" Conduit	
	A	B	A	B
18	12	20	20	33
16	10	16	17	27
14	6	15	10	24
12	5	11	8	18
10	4	7	7	11
8	2	4	4	6
6	1	2	2	4
4	1	1	1	2
3	1	1	1	2
2	1	1	1	1
1	1	1	1	1
1/0			1	1
2/0			1	1
3/0			1	1
4/0				

NOTES:

These values were obtained from UL-1203 Table 102.1 and represent 25% wire fill in the specified trade size fitting, which is the maximum permitted by NEC 501.15(C)(6).
Column A = Types RFH-2, RH, RHH, RHW, THW, TW, XHHW (AWG 14-6), FEPB (AWG 6-2)
Column B = Types FEP, THHN, THWN, TFN, PF, PGF, XHHW (AWG 4-2000 MCM), FEPB (AWG 14-8)

Sealing Instructions for EYS Series

Only experienced, careful installers should be entrusted with making the dam, mixing, and pouring the compound. Improperly made seals are worthless. The mixing vessel must be cleaned thoroughly before mixing new compound.

EYS sealing fittings have separate filling and damming openings.

Vertical Seals

1. Remove both threaded plugs from the EYS sealing fitting.
2. Construct dam, per instructions provided with Crouse-Hinds Chico® X Fiber, in the lower end of the EYS. Replace the large plug and screw into body.
3. Prepare Crouse-Hinds Chico® A sealing compound in accordance with instructions provided with Chico® A sealing compound. Pour the compound through the pipe plug opening above the large plug.
4. Replace pipe plug and screw into body.

Horizontal Seals

1. Remove both threaded plugs from the EYS sealing fitting.
2. Construct dams, per instructions provided with Crouse-Hinds Chico® X Fiber, in both ends of the EYS.
3. Prepare Crouse-Hinds Chico® A sealing compound in accordance with instructions provided with Chico® A sealing compound. Pour the compound through the large opening.
4. Replace plugs and screw into body.

⚠ CAUTION

Avoid contact between conductors inside the poured sealing compound. The sealing compound must completely surround the conductors and comply with the thickness requirements in NEC Article 501.15(C)(3). Gaps between the conductors in a poured seal can be leakage paths for gases, vapors or flames.

⚠ CAUTION

EYS sealing fittings are suitable for sealing vertical conduit runs between hazardous and non-hazardous areas, but must be so located that hazardous gases or vapors will not vent into the non-hazardous area. Conduits leaving the hazardous area from the top should have the fitting located in the non-hazardous area. Conduits leaving the hazardous area from the bottom should have the fitting located in the hazardous area.

If any batch of compound starts to set before pouring **DO NOT** try to thin by adding water or stirring. This will spoil seals. Discard the batch and make a new one.

Keep compound dry by tightly closing container cover when not in use.

For Applications Involving Groups C and D

⚠ CAUTION

Sealing compound to be mixed **ONLY** at temperatures above 35°F/2°C and **ONLY** poured into fittings that have been brought to a temperature above 35°F/2°C. Seals must **NOT** be exposed to temperatures below 35°F/2°C for at least 8 hours. Compound **MUST** be allowed 8 hours to cure to full strength before energizing system.

For All Applications

⚠ CAUTION

Sealing compound to be mixed **only** at temperatures above 40°F/4°C and **ONLY** poured into fittings that have been brought to a temperature above 40°F/4°C. Seals must **NOT** be exposed to temperatures below 40°F/4°C for at least 72 hours. Compound **MUST** be allowed 72 hours to cure to full strength before energizing system.