Calbrite™
Stainless Steel Conduit Systems
A division of
CALPIPE INDUSTRIES Incorporated

Installation Instructions for Calbrite™ Type EYS Seal Fittings for use in Hazardous (Classified) Locations.

Class I, Divisions 1 & 2, Groups A, B, C, & D
Class II, Divisions 1 & 2, Groups E, F, G, and Class III

Calbrite™ Type EYS seal fittings are suitable for both vertical and horizontal installations.

Calbrite™ Type EYS seal fittings are to be installed with Crouse-Hinds ® Chico ® A sealing compound and Chico ® X fiber. Mixing instructions for Crouse-Hinds ® Chico ® A sealing compound:

Mix 2 parts Chico ® to 1 part clean water. Mix thoroughly. Do not mix more than can be used in 15 minutes. Use cold water as warm water accelerates set

Vertical Installation:

1. Seal fitting is installed with the small access plug in the up position. Both access plugs are removed after conductors are installed.

2. Damming fiber is installed through the lower access port into the lower portion of the fitting body. Care must be taken to insure the fiber fills all voids around each conductor, as well as between conductors and the wall of the seal fitting body.

3. Replace the lower (large) access plug.

4. Mix compound according to manufacturer instructions and pour through the upper (smaller) access port until compound reaches the base of the access port threads.

5. Replace remaining plug in upper access port. Both plugs are to be made up with five threads engaged and wrench tight.

Horizontal Installation:

1. Seal body is installed with both access plugs in the up position. Both access plugs are removed after conductors are installed.

2. Damming fiber is installed through the large access port into both ends of the seal fitting body to allow sealing compound to flow to the required thickness (Table A). Care must be taken to insure the fiber fills all voids around each conductor, as well as between conductors and the wall of the seal body.

3. Replace the small access port plug.

4. Mix compound according to manufacturer instructions and pour through the large access port until compound reaches the base of the access port threads.

5. Replace large plug. Both plugs are to be made up with five threads engaged and wrench tight.

Class I Group A & B Installations:
Vertical Installation:

Sealing compound is to be mixed at ambient temperature above 40°f. / 4°c. and poured into fitting with body temperature not below 40°f. / 4°c. Ambient temperature (of fitting) must not drop below 40°f. / 4°c. for 72 hours. Compound must cure for 72 hours before circuits are placed into service.

Horizontal Installation:

Sealing compound is to be mixed at room temperature, and poured into fitting at room temperature. Ambient temperature of fitting must remain at room temperature for 72 hours. Compound must cure for 72 hours before circuits are placed into service.

Class I Group C & D Installations:

Sealing compound is to be mixed at ambient temperature above 35°f. / 2°c. and poured into fitting with body temperature not below 35°f. / 2°c. Ambient temperature (of fitting) must not drop below 35°f. / 2°c. for 8 hours. Compound must cure for 8 hours before circuits are placed into service.

Table **A** Minimum thickness of compound

Conduit Trade Size	Minimum Thickness
¾"	¾"
1"	1"

Table **B** Maximum number of conductors per fitting

	¾"	¾"	1"	1"
Conductor Size AWG	Type TW *	Type THHN	Type TW *	Type THHN
#14	6	15	10	24
#12	5	11	8	18
#10	4	7	7	11

*Types RFH-2, RH, RHH, RHW, THW, TW, XHHW.
Conductors must be approved thermoplastic or rubber insulated type

Calbrite™ Hazardous Location Conduit Seals are manufactured and tested for use in applications identified in Article 500 of the National Electrical Code™, and listed by Underwriters Laboratories™ in accordance with UL™ standard 1203.