

Secondary Process Sealing Fitting

Installation & Maintenance Information

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

ENGLISH

⚠ CAUTION

For proper installation, the temperature of the SpeedSeal compound must be between 50°F (10°C) and 85°F (29°C) before mixing. Sealing fittings must be at a temperature above 40° F (4°C).

To avoid explosion hazard, discard any unused Chico SpeedSeal compound 1 year after date of manufacture marked on packaging.

⚠ CAUTION

Wear proper eye protection and protective plastic gloves when mixing and injecting SpeedSeal compound to prevent personal injury.

NOTE:

Latest Material Safety Data Sheet for the Chico® SpeedSeal™ Compound is available in the Resources section of the Cooper Crouse-Hinds web site at www.crouse-hinds.com

⚠ CAUTION

This product must be installed by a qualified electrician who has received instruction in its use.

⚠ WARNING

Contents will develop internal pressure after mixing, remove mixing rod immediately after mixing to prevent pressure buildup and possible sudden eruption that could result in personal injury

Contains isocyanate - may be a skin and respiratory sensitizer. May cause irritation of eyes, skin, nose and throat.

Do not breathe vapors. Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

FRENCH

⚠ CAUTION

Pour éviter les dangers d'explosion, la température du produit SpeedSeal doit se situer entre 10°C (50°F) et 29°C (85°F) avant le mélange. Les raccords d'étanchéité doivent être à une température supérieure à 4°C (40°F).

Pour éviter les dangers d'explosion, jetez tout produit SpeedSeal de Chico inutilisé 1 an après la date de fabrication indiquée sur l'emballage.

⚠ CAUTION

Portez une protection oculaire adéquate et des gants de protection de plastique quand vous mélangez et injectez le produit SpeedSeal afin d'empêcher des blessures corporelles.

NOTE:

Une feuille d'instruction complète en français peut être obtenue sur le site Internet de Cooper Crouse-Hinds à www.crouse-hinds.com dans la section Resources.

⚠ CAUTION

Seul un électricien qualifié, formé à cet effet, doit installer ce produit.

⚠ AVERTISSEMENT

Le contenu générera une pression interne après mélange. Enlevez la tige d'agitation immédiatement après l'opération de mélange pour empêcher une accumulation de pression et une éruption soudaine possible du produit qui pourrait résulter en une blessure corporelle.

Contient de l'isocyanate - peut être un sensibilisateur cutané et respiratoire. Peut causer une irritation des yeux, de la peau, du nez et de la gorge.

Ne pas inhaler les vapeurs. Utiliser dans un endroit bien aéré. Éviter tout contact avec les yeux, la peau et les vêtements.

SPANISH

⚠ CAUTION

Para evitar el peligro de una explosión, la temperatura del compuesto SpeedSeal debe estar entre 50°F (10°C) y 85°F (29°C) antes de mezclarse. Los accesorios para sellado deben estar a una temperatura superior a los 40°F (4°C).

Para evitar el peligro de una explosión deseche todo aquel Compuesto CHICO SpeedSeal que no haya sido utilizado después de 1 año de la fecha de fabricación marcada en el empaque.

⚠ CAUTION

Utilice la protección adecuada para sus ojos y guantes protectores de plástico cuando mezcle e inyecte el compuesto SpeedSeal para prevenir daños personales.

⚠ CAUTION

Este producto debe ser instalado por un electricista calificado quien haya recibido capacitación en su uso.

⚠ AVERTISSEMENT

El contenido desarrollará una presión interna después de mezclarse. Retire la barra mezcladora inmediatamente después de mezclar para prevenir que la presión aumente y produzca una repentina explosión que podría lesionarlo.

Contiene isocianato - puede ser sensible a la piel y el olfato. Puede causar irritación de ojos, piel, nariz y garganta.

No respire los vapores. Utilizese en lugares con una adecuada ventilación. Evite el contacto con los ojos, piel y ropa.

NOTA:

La Hoja de Instrucciones completa está disponible en la sección "Resources" del web site de Cooper Crouse-Hinds www.crouse-hinds.com.

APPLICATION

It is considered good practice to install a secondary process seal in electrical conduits or cables that are connected to instruments which monitor or measure high pressure applications such as compressors, LNG storage tanks and any other vessels where volatile gases or liquids are stored or processed under pressure.

The secondary process seal, when properly installed, is intended to prevent the passage of liquids, gases or vapors at a continuous pressure across the seal. There are 2 versions of the secondary process seal, which are rated below in Table 1.

Cooper Crouse-Hinds secondary process seals are approved by CSA for use in Class 1, Divisions 1 & 2, Groups C & D and Class II, Divisions 1 & 2, Groups E, F & G hazardous locations with Chico SpeedSeal compound and the components contained in each kit.

Cooper Crouse-Hinds Secondary Process Seals may be used to seal in both horizontal and vertical installations. The EABX26-SA sealing fitting has 3/4" hubs. Reducers may be used if the trade size of the conduit or cable differs.

CATALOG NUMBER	PRODUCT	KIT CONSISTS OF	WORKING PRESSURES
EABX26-SA-PS	Secondary seal	<ul style="list-style-type: none"> • EABX26-SA sealing fitting • GUA062-GB sealing cover • GUAC26-SA outlet body and cover • Process seal vent • Pressure relief tube • PLG2-SA • RE21-SA • 2 cartridges of CHICO SS2 (2 oz.) sealing compound • ECD16 breather / drain • 8 twist on connectors with heat shrink & solder (solder sleeve device) (4 connectors for #14 AWG and 4 connectors for #12 and #10 AWG) • Chico X fiber packet • Instruction sheet • Nameplate 	40 psi / 275 kPa 2.8 bar
EABX 26-SA-PSHP10 EABX 26-SA-PSHP12 EABX 26-SA-PSHP14	High pressure secondary seal	<ul style="list-style-type: none"> • EABX26-SA sealing fitting • GUA062-GB sealing cover • GUAC26-SA outlet body and cover • Process seal vent • Pressure relief tube • UNF205-SA • PLG2-SA • RE21-SA • 2 cartridges of CHICO SS2 (2 oz.) sealing compound • ECD16 breather / drain • 8 twist on connectors with heat shrink & solder (solder sleeve device) (4 connectors for #14 AWG and 4 connectors for #12 and #10 AWG) • Chico X fiber packet • High pressure sealing assembly (CONAX Fitting) • Instruction sheet • Nameplate 	500 psi / 3445 kPa 35 bar

Table 1 - Secondary Process Seals

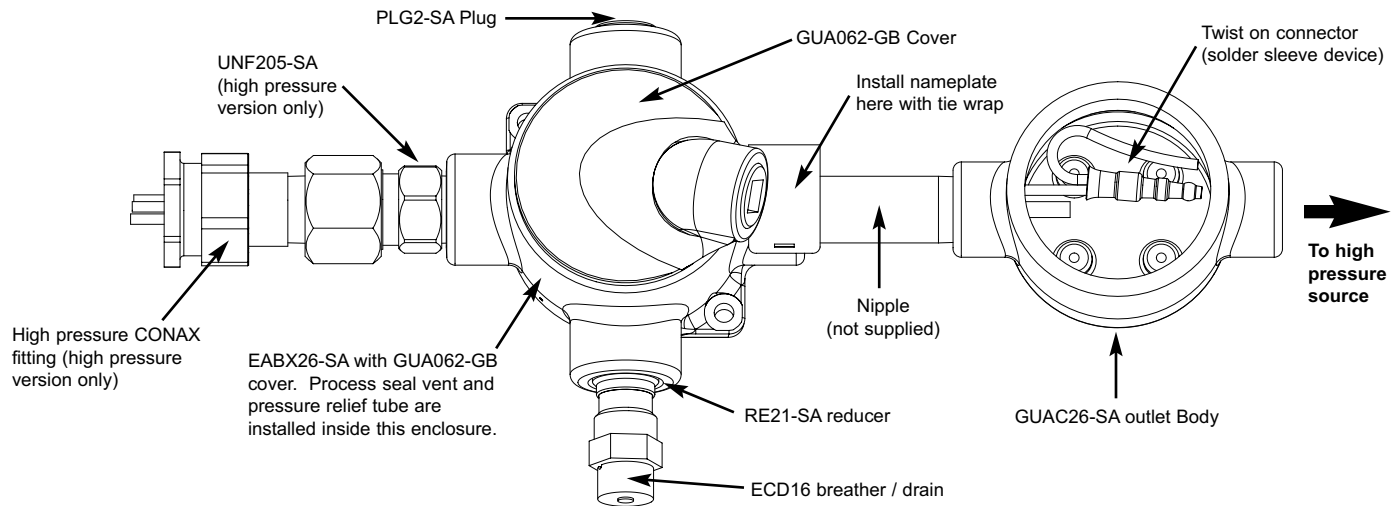
NOTE

Special tools required for installation of this kit include a heat gun with a reflector, that will reach a temperature of 440° F; an EYS Tool Kit; and a torque wrench (for the high pressure version only)

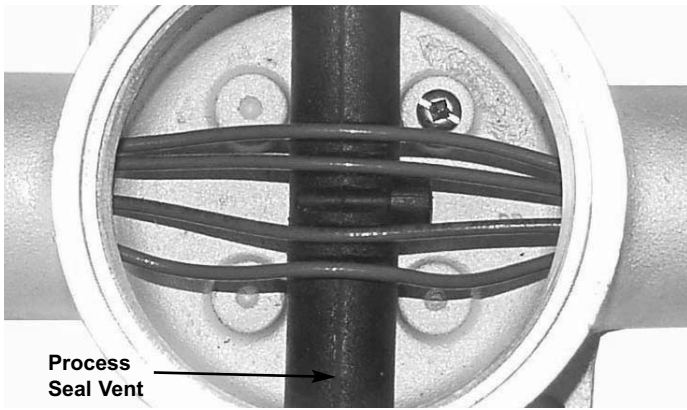
PREPARING PROCESS SEALING FITTING:

1. Install EABX26 enclosure into the conduit system.
2. For EABX-PSHP (Process Seal High Pressure) version only - next install CONAX high pressure sealing gland in conduit system. CONAX fitting should be installed in conduit hub on EABX opposite the high pressure side and with the UNF205 union provided.

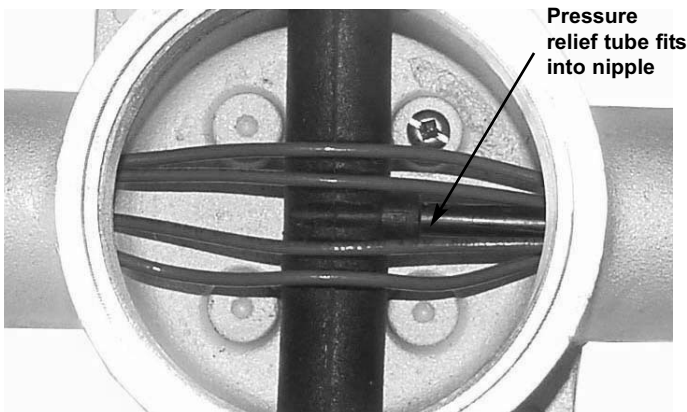
TYPICAL INSTALLATION



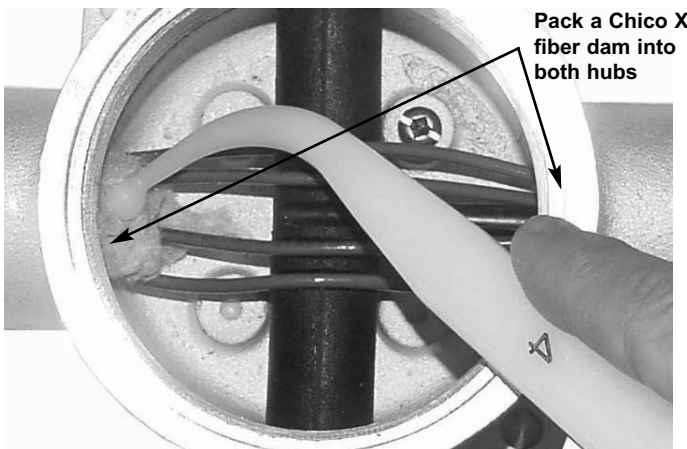
- Run the necessary wires thru the conduit system. If installing high pressure sealing assembly (CONAX) follow the instructions that are packaged with the CONAX fitting at this time.
- Install the process seal vent under the conductors in the hubs 90° from the conduit. **Note: Make sure nipple on process seal vent for pressure relief tube faces high pressure source.**
- Separate and form the wires such that they fit into the grooves on the top of the process seal vent.



- Install the pressure relief tube into the conduit running to the high pressure source and press fit into process seal vent nipple using needle nose pliers.

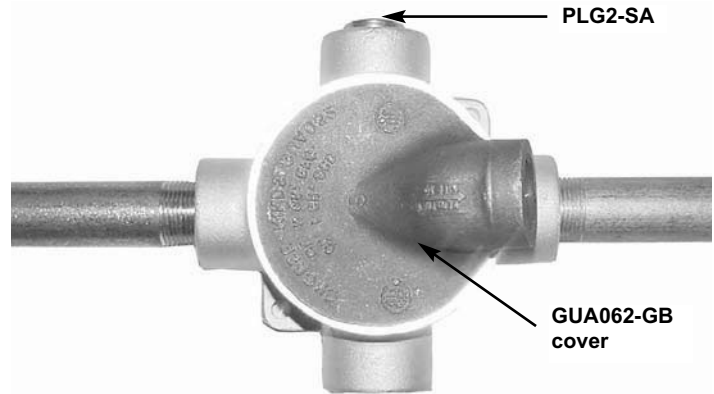


- Install Chico X fiber into both hubs to prevent Chico SpeedSeal from expanding into conduit system. Use Cooper Crouse-Hinds EYS-TOOL-KIT to properly install dam.



- Thread PLG2-SA plug into one of the remaining two conduit hubs on the EABX26 enclosure.

- Install GUA062-GB sealing cover on EABX26 body and fully thread onto body, leaving the pour opening in an upward position on vertical installations.



- By looking into the remaining open conduit hub, confirm that the process seal vent is seated properly in the hub and that the pressure relief tube protrudes into the vent.
- Mix and dispense the two Chico SpeedSeal cartridges into the sealing hub. Follow the directions in the SpeedSeal foil packets.



- Replace plug on sealing cover immediately after dispensing the second cartridge. The Chico SpeedSeal will expand to fill the entire fitting.
- Inspect the open conduit hub to make sure Chico SpeedSeal does not obstruct the process seal vent. Once again, confirm that the pressure relief tube protrudes into the vent. Then thread the reducer and the ECD16 into the hub.

⚠ WARNING
Devices other than the ECD16 may be used to indicate loss of primary seal. However, such devices **must ensure the explosionproof integrity of the assembly.**

- Proceed to installation of solder sleeve devices to complete installation of secondary process seal.

⚠ WARNING
The use of ordinary wirenuts will defeat the integrity of this sealing assembly.

- Install nameplate titled, "Gas Pressure Sealing Fitting" onto hub of EABX26-SA with tie wrap supplied.

INSTALLATION PROCEDURE FOR SPLICE SOLDER SLEEVE DEVICES - INSTALL WITH HOT AIR GUN

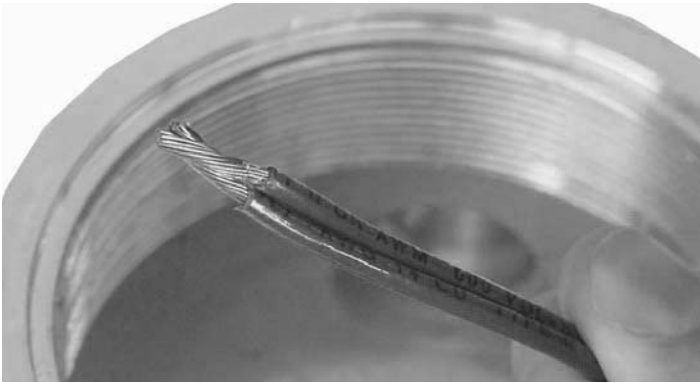
The solder sleeve devices are specially designed splices that are an integral part of the secondary process sealing fitting. The solder sleeve device prevents gases from migrating through the individual conductors - which can occur in applications involving constant high pressures.

Solder sleeve devices must be installed in the electrical system between the EABX26-SA enclosure and the high pressure source. **For conduit or cable installations** they should be installed in the provided GUAC26-SA, between the EABX26-SA and high pressure source.

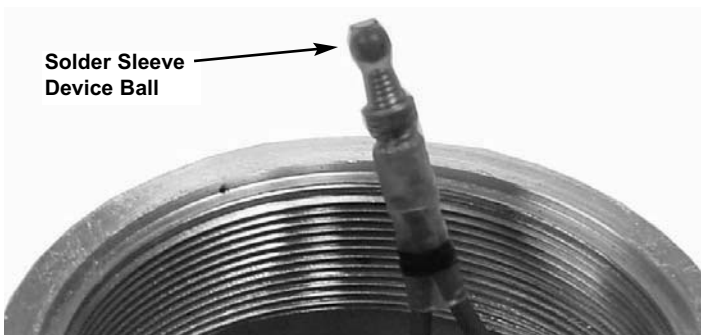
1. Cut wires to create splice for solder sleeve device.

NOTE: Splice must be between process seal and high pressure source

2. Strip the end of each wire as close as possible to 1/2 inch. The jacket must be cut precisely; the strands must not be damaged or cut. This is to ensure that all strands are properly sealed.
3. Align the stripped ends visually.
4. Slightly twist the two conductors together in order to prevent foldback of the strands (see below).



5. For #12 and 10 AWG conductors, use the Solder Sleeve Device with the yellow ball. For #14 conductors use the Solder Sleeve Device with the red ball. Slide and slightly rotate the Solder Sleeve Device onto the conductors, until the conductors meet the front of the copper coil. Push firmly and screw the device in a clockwise direction approximately one full turn. There should be no bare conductor visible outside the copper coil.
6. Equip the hot air gun with a reflector and allow it to warm up until the operating temperature is reached (440°F).



7. Position the device assembly so that the solder preform is located in the middle of the reflector.
8. Direct the heat to the solder preform until the sleeve shrinks and the



solder preform melts and flows into the turns of the conical copper coil. After the solder ring has completely disappeared, continue heating for 6 seconds.

9. Allow the assembly to cool before handling.
10. Inspect the assembly and reheat the underheated termination to obtain the proper solder flow if necessary.
11. Install cover provided with GUAC26-SA.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Cooper Crouse-Hinds "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.