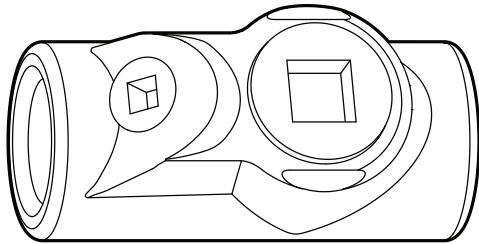


## INSTALLATION INSTRUCTIONS

# Sealing fittings

## T&B® EYS series



**— NOTICE —**  
Retain instructions for future reference.

**⚠ WARNING ⚠**

 • De-energize all electrical circuits prior to and during installation and maintenance.

**Special instructions:**

- Installation should only be conducted by qualified installers in accordance with NEC and any local codes or engineering requirements.
- All mixing containers must be thoroughly cleaned and free of any contamination prior to mixing any compound.
- Take precaution to locate fitting in the exact location specified by all NEC and engineering requirements and/ or all local codes.
- Ensure sealing fitting is free of all debris and foreign material and that it is clean and dry to ensure adhesion of sealing compound.
- Install sealing fitting into conduit system with “Pour Hole” upward and “Cover Hole” and “Pour Hole” easily accessible (See Figure 1). Install conduit ONLY as indicated. Do not install conduit into “Cover Hole” or “Pour Hole”.
- Pull required conductors through sealing fitting ensuring conductor insulation is continuous, and that conductors are clean and dry, and free of nicks or abrasions.

**— NOTICE —**  
Maximum conductor fill for sealing fittings are listed in the table on page 4.

 **IMPORTANT:**

To avoid hazardous or dangerous condition, read and understand all of the instructions and safety information in this instruction sheet.

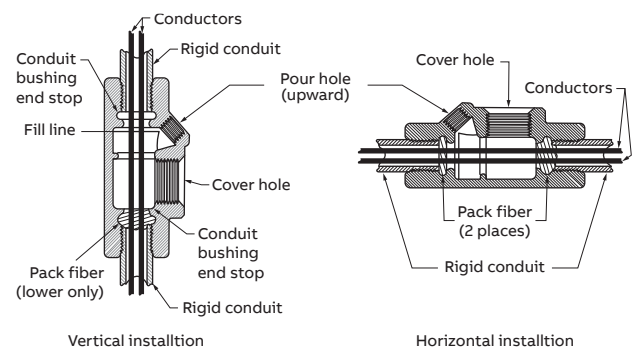


Figure 1

**⚠ CAUTION ⚠**  
**DO NOT USE** as a junction box. Do not splice conductors together inside any sealing fitting.

- Remove “Cover Plug” and “Pour Plug” from sealing fitting. Confirm sealing fitting is securely attached to both conduit runs and that conductors are continuous and undamaged.

**⚠ WARNING ⚠**

T&B® EYS series Sealing Fittings are to be used only with the following Sealing Compound Systems:  
Crouse Hinds Chico® A series Sealing Compound  
Crouse Hinds Chico® X series Sealing Fiber

**DO NOT MIX DIFFERENT MANUFACTURERS' SEALING COMPOUND SYSTEMS.**

Only use Crouse Hinds Chico® X fiber with Crouse Hinds Chico® A or APX compound.

**Installation Instructions:****Step 1: Prepare dam as noted below according to orientation:**

- Vertical packing sealing fiber
  - Bundle all conductors into single bundle in center of sealing fitting. Insert sealing fiber through “Cover Hole” in lower section of sealing fitting and loosely pack around conductor bundle. Sealing fiber cannot be higher than the “Conduit Bushing/End Stop”.
  - Completely separate conductors in bundle so that they are not touching and pack sealing fibers in surrounding spaces. Conductors cannot touch another conductor or inside surfaces of sealing fitting. The sealing fiber cannot be higher than the “Conduit Bushing/End Stop” and dense enough to prevent ingress of liquid sealing compound. All sealing fiber must be confined to the “Conduit Bushing/End Stop” section of the fitting.
- Horizontal packing sealing fiber
  - Bundle all conductors into single bundle in center of sealing fitting. Insert sealing fiber through “Cover Hole” in left and right sections of sealing fitting and loosely pack around conductor bundle. Sealing fiber cannot be beyond “Conduit Bushing/End Stop” inside center section of sealing fitting
  - Completely separate conductors in bundle so that they are not touching and pack sealing fibers in surrounding spaces. Conductors cannot touch another conductor or inside surfaces of sealing fitting. The sealing fiber should not be packed beyond the “Conduit Bushing/End Stop” and dense enough to prevent ingress of liquid sealing compound. All sealing fiber must be confined to “Conduit Bushing/End Stop” section of fitting.

**CAUTION**

If tool is needed to pack sealing fiber, ONLY use blunt tipped non-metallic object.

**Step 2: Replace cover plug**

- Install “Cover Plug” into “Cover Plug” opening and tighten until secure.

**Step 3: Prepare sealing compound for Crouse Hinds’ Sealing compound.****CAUTION**

Instructions and warnings must be followed.

**A) Instructions for use with Crouse Hinds Chico®****Sealing Compound:**

- Prepare Chico® sealing compound as instructed using a clean mixing vessel for each batch. Mix two part compound to one part cold water by volume. Mixture must be blended immediately to a smooth consistency with no lumps. Do not mix more compound than can be poured in 15 minutes.

**B) Instructions for use with Crouse Hinds Chico® APX****Sealing Compound:**

- Squeeze pouch until inner liquid container breaks. Shake pouch until compound and water are thoroughly mixed. Remove screw cap, insert flexible spout and pour into fitting.

**THIS IS NOT AN INSULATING COMPOUND AND MUST NOT BE USED FOR SUCH PURPOSE.**

**DO NOT use compound if it has begun to set. DISCARD and prepare new batch.**

**Keep compound dry. Keep cover closed when not in use**

**CAUTION**

- Prepare sealing compound ONLY at temperatures above 40°F (4°C) and ONLY pour into fittings that have been brought to a temperature above 40°F (4°C). Seals must NOT be exposed to temperature below 40°F (4°C) for at least 72 hours.
- Material hardens and becomes warm to touch. May cause skin, eye and respiratory irritation. DO NOT dispose of in drain.

**Step 4: Pour sealing compound**

- Pour prepared sealing compound into sealing fitting through “Pour Hole” (Vertical Installations) or “Cover Hole” (Horizontal Installations). Lightly tap on fitting to disperse and level sealing compound in and around sealing fitting and conductors. Fill sealing fitting until sealing compound level is at sealing compound “Fill Line” inside sealing fitting. Never under-fill.

**Step 5: Install pour hole plug**

- Install “Pour Plug” into sealing fitting “Pour Hole” opening and tighten until secure.

**Step 6: Mark the fitting complete**

- (Recommended practice) Mark the sealing fitting complete by painting or equivalent method once sealing compound has been poured and cured.

**Installation Instructions:****For T&B® EYD drain sealing fittings:**

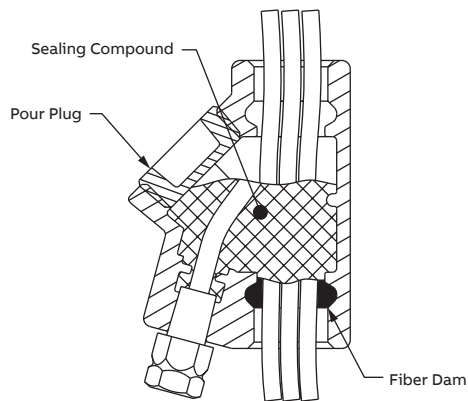
- Follow all vertical pour instructions (except as indicated below) for EYS fittings listed on page 2, Steps 1, 3, 4, 5, 6, 7 and Figures 2 and 3 (below).

**WARNING**

Avoid contact between the probe and the conductors.

**Trade sizes: ½" through 1"**

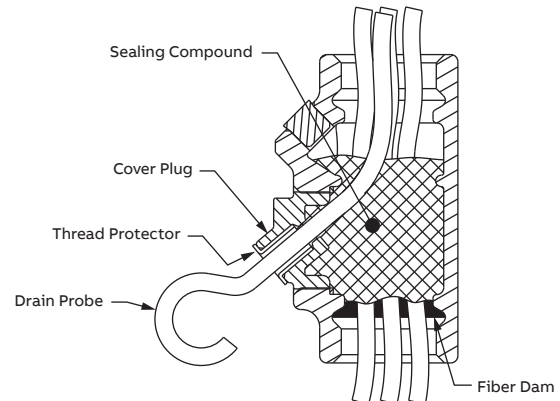
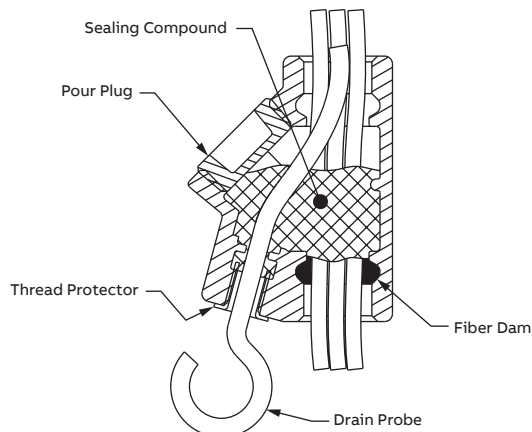
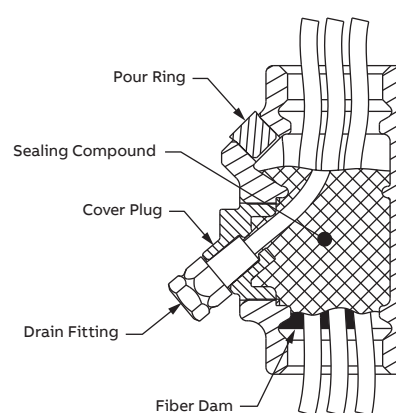
- Install Drain Seal Fittings in conduit run in accordance with applicable codes. Pull conductors through following fill requirements detailed in table on page 4.
- Access inside of Drain Sealing Fitting by removing pipe plug.
- Install drain probe through drain opening and firmly secure probe in place, making sure 'Thread Protector' is positioned to eliminate sealing compound from entering threads. Adjust length of probe to ensure that top stem is above anticipated sealing compound level.

**Figure 2 - Ready to use****CAUTION**

Sealing compound must completely surround conductor. Poured seals must not be disturbed during the "Curing Period" of the sealing compound (72 hours).

**Trade sizes: 1¼" through 4"**

- Install drain seal fittings in conduit run in appropriate location in accordance with applicable codes. Pull conductors through following fill requirements detailed in table on page 4.
- Remove large cover plug to access inside of Drain Sealing fitting. Follow all vertical pour instructions for EYS fittings listed on page 2, Steps 1 (vertical) or 2 (horizontal), 3, 4 (orient cover plug with arrow pointing down), 5, 6, 7, and Figures 4 and 5 (below).
- Install drain probe through drain opening and secure, making sure that the 'Thread Protector' is positioned to prevent sealing compound from entering threads. Adjust length of probe to ensure top stem is above the anticipated sealing compound level.

**Figure 4 - Poured seal****Figure 3 - Poured seal****Figure 5 - Ready to use**

**Table - Maximum number of conductors that can be sealed in a fitting**

**The maximum number of wire (a), (b) that can be sealed in a sealing fitting are as follows:**

Size AWG or MCM	½ inch		¾ inch		1 inch		1¼ inch		1½ inch		2 inch		2½		3 inch		3½ inch		4 inch		5 inch		6 inch	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
18	7	11	12	20	12	20	20	33	35	58	49	80	80	131	115									
16	6	9	10	16	17	27	17	27	30	47	41	64	68	106	98									
14	3	8	6	15	10	24	10	24	18	43	25	58	41	96	58		90		121					
12	3	6	5	11	8	18	8	18	15	32	21	43	34	71	50	102	76		103					
10	1	4	4	7	7	11	13	20	13	20	20	27	29	45	41	65	64	100	86	134	110			
8	1	2	2	4	4	6	7	11	9	16	9	16	16	26	22	37	35	58	47	78	60	100	94	
6	1	1	1	2	2	4	4	7	6	9	10	16	15	23	15	23	23	35	32	47	41	61	64	96
4	1	1	1	1	1	2	3	4	5	6	8	9	12	14	18	21	18	21	24	29	31	37	49	59
3			1	1	1	2	3	3	4	5	7	8	10	12	16	18	16	18	21	24	28	31	44	50
2			1	1	1	1	3	3	3	4	6	7	9	10	14	15	14	15	19	20	24	26	38	42
1			1	1	1	1	1	2	3	3	4	5	7	7	10	11	10	11	14	15	18	20	29	31
0					1	1	1	2	2	2	4	4	6	6	9	9	12	13	12	13	16	16	25	26
2/0					1	1	1	1	1	2	3	3	5	5	8	8	11	11	14	14	14	14	22	22
3/0					1	1	1	1	1	1	3	3	4	4	7	7	9	9	12	12	12	12	19	19
4/0							1	1	1	1	2	2	3	3	6	6	8	8	10	10	10	10	16	16
250							1	1	1	1	1	2	3	3	5	5	6	6	8	8	11	11	15	15
300							1	1	1	1	1	1	3	3	4	4	5	5	7	7	10	10	15	15
350							1	1	1	1	1	1	1	2	3	3	5	5	6	6	10	10	14	14
400							1	1	1	1	1	1	1	2	3	3	4	4	6	6	9	9	13	13
500							1	1	1	1	1	1	1	1	3	3	4	4	5	5	8	8	11	11
600											1	1	1	1	1	2	3	3	4	4	6	6	9	9
700											1	1	1	1	1	2	3	3	3	3	6	6	8	8
750											1	1	1	1	1	3	3	3	3	3	5	5	8	8
800											1	1	1	1	1	2	2	3	3	3	5	5	7	7
900											1	1	1	1	1	1	2	3	3	4	4	7	7	7
1000											1	1	1	1	1	1	1	1	3	3	4	4	6	6
1250													1	1	1	1	1	1	2	3	3	5	5	5
1500														1	1	1	1	1	1	3	3	4	4	4
1750															1	1	1	1	1	1	2	2	4	4
2000															1	1	1	1	1	1	1	3	3	3

(a) Col. A = Type RFH-2, RH, RHH, RHW, THW, TW, XHHW (AWG14-6), FEPB (AWG6-2)  
 Col. B = FEP, THHN, THWN, TFN, PF, PGF, XHHW, (AWG4-2000MCM), FEPB (AWG14-8)  
 (b) Any combination of these wires are not to exceed 25 percent of the cross section of the conduit for the fitting in which fill may be used.  
 (c) Based on 25% fill data from NEC 1999, Table C8  
 Source: UL 886 Table 35.1 Revised April 29,1994

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