Condulet® Seals, Breathers and Drains Hazardous

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Condulet® Seals Breathers and Drains

Application and Selection

Application:

Seals:

Seals are installed in conduit runs to prevent the passage of gases, vapors or flames from one portion of the electrical installation to another through the conduit, limiting any explosion to the enclosure and preventing precompression or "pressure piling."

- While not a National Electrical Code requirement, many engineers consider it good practice to sectionalize long conduit runs by inserting seals not more than 50' to 100' apart, depending on the conduit size, to minimize the effects of "pressure piling." Breathers:
- Breathers (vents), are installed in the top of enclosures to provide ventilation to minimize condensation in enclosures.
 Drains:
- Drains are used in humid atmospheres or in wet locations where it is likely that water can gain entrance to the interiors of enclosures or raceways. The raceways should be inclined so that water will not collect in enclosures or on seals, but will be led to low points where it may pass out through ECD drains.
- Frequently the arrangement of raceway runs makes this method impractical if not impossible. In such instances, EZD or EYD drain seal fittings should be used. These fittings prevent harmful accumulatons of water above the seal.

Considerations for Selection:

Seals:

- Select the proper sealing fitting for the hazardous vapor involved; i.e., Class I, Division 1 & 2, Groups A, B, C or D.
- Select the appropriate seal for new or retrofit installations.
- Select a sealing fitting for the proper use in respect to mounting position. This is particularly critical when the conduit runs between hazardous and non-hazardous areas. Improper positioning of a seal may permit hazardous gases or vapors to enter the system beyond the seal and permit them to escape into another portion of the hazardous area or to enter a non-hazardous area. Some seals are designed to be mounted in any position; others are restricted to vertical mounting.

NOTE: The amount of *Chico*° fiber and compound required for any seal is determined by volume, hub size and mounting position of the seal. Drains:

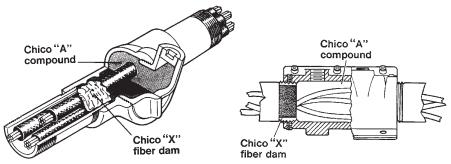
• in locations which are usually considered dry, surprising amounts of water frequently collect in conduit systems. No conduit system is airtight, therefore, it may "breathe". Alternate increases and decreases in temperature and/or in barometric pressure, due to weather changes or due to the nature of the process

carried on in the location where the conduit is installed, will cause "breathing," resulting in condensation and water accumulation.

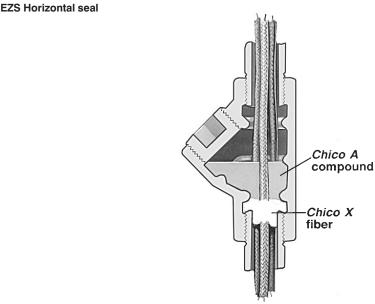
• In view of this likelihood, it is therefore good practice to insure against such water accumulations and probable subsequent insulation failures by installing breathers, drain seals, or inspection seals, even though conditions prevailing at the time of planning or installing do not indicate their need.

Options:

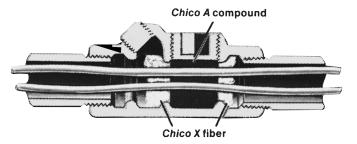
• Corro-free™ epoxy powder coat add suffix - S752



EYSR Retrofit seal



EYS 1 Vertical sealing

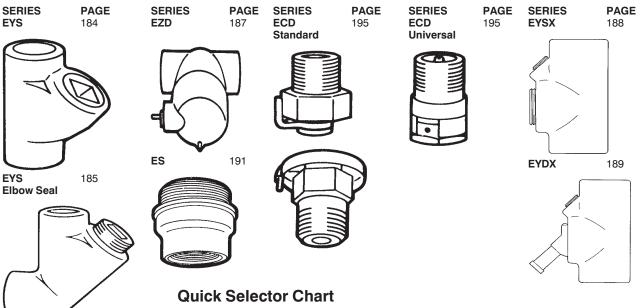


EYS Horizontal seal

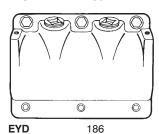


Condulet® Seals, Breathers and Drains

Shape Selector Chart Quick Selector Chart









Series	Description	NEC Hazardous Group	For Conduit Angle
EYS	Seal	Class I, Groups A,B,C,D Class II, Groups E,F,G	Vertical and Horizontal
EYS 29	Elbow Seal	Class I, Groups C,D Class II, Groups E,F,G	90° turn
EYSR	Retrofit Seal/Drain Seal*	Class I, Div. 2, Groups C,D Class II, Div. 2, Groups E,F,G Class III	Vertical and Horizontal
EYSX	Expanded Fill Sealing Fittings	Class I, Groups B,C,D Class II, Groups E,F,G	Vertical and Horizontal
EZS	Seal	Class I, Groups C,D Class II, Groups E,F,G	All
ES	Sealing Hub	Class I, Groups C,D	Vertical
EYD	Seal and Drain	Class I, Groups B,C,D Class II, Groups F,G	Vertical
EYDX	Expanded Fill Sealing Fittings and Drain	Class I, Groups B,C,D Class II, Groups F,G	Vertical
EZD	Inspection Seal and Drain – Inspection Seal only	Class I, Groups C,D Class II, Groups E,F,G	Vertical
ECD	Standard Breather only Drain only	Class I, Groups B,C,D Class II, Groups E,F,G Class III	
ECD	Universal Drain – Breather	Class I, Groups C,D Class II, Groups F,G	
CD	Non - Hazardous Drain	_	_

^{*} Drain purchased separately.

Condulet® Sealing Fittings

Chico Sealing Compound and Fiber Page 193

Cl. I, Div. 1 & 2, Groups A,B,C,D Cl. II, Div. 1, Groups E,F,G

CI. II, Div. 2, Groups F,G

CI. III

Explosionproof Dust-Ignitionproof

Application:

- EYS and EZS sealing fittings:

 restrict the passage of gases, vapors or flames from one portion of the electrical installation to another at atmospheric pressure and normal ambient temperatures
- limit explosions to the sealedoff enclosure
- limit precompression or "pressure piling" in conduit systems

Sealing fittings are required:
• at each entrance to an enclosure housing an arcing or sparking device when used in Class I, Division 1 and 2 hazardous locations. To be located as close as practicable and, in no case, more than 18" from such enclosures

- at each conduit entrance of 2" size or larger to an enclosure or fitting housing terminals, splices or taps when used in Class I, Division 1 hazardous locations. To be located as close as practicable and, in no case, more than 18" from such enclosures
- in conduit systems when leaving Class I, Division 1 or Division 2 hazardous locations
- in cable systems when the cables either do not have a gas/vaportight continuous sheath or are capable of transmitting gases or vapors through the cable core when those cables leave the Class I, Division 1 or Division 2 hazardous locations

Features:

EYS and EZS sealing fittings include:

- minimum turning radius
- large openings with threaded closures to provide easy access to conduit hubs for making dams
- integral bushings in conduit hubs to protect conductor insulation from damage
- taper-tapped hubs to ensure ground continuity

EYS sealing fittings are available for installation in either vertical only or in both horizontal or vertical positions.

EZS sealing fittings for installation at any angle; the covers with opening for sealing compound can be properly positioned to accept the compound.

Standard Materials:

- Bodies Feraloy[®] iron alloy and/or ductile iron
- Plugs Feraloy iron alloy and/or steel
- Removable nipples steel

Standard Finishes:

- Feraloy iron alloy and ductile iron electrogalvanized and aluminum acrylic paint
- Steel electrogalvanized

Options:

• Copper-free aluminum bodies, nipples and enclosures – add suffix - SA*

Size Ranges:

½" – 6"

Certifications and Compliances:

NEC/CEC:

Class III

- EYS1-3, 11-31, 16-36, 116-316
 Class I, Division 1 & 2, Groups A,B,C,D
 Class II, Division 1, Groups E,F,G
 Class II, Division 2, Groups F,G
 Class III
- EYS41-101, 416-1016
 Class I, Division 1 & 2, Groups B,C,D
 Class II, Division 1, Groups E,F,G
 Class II, Division 2, Groups F,G
- EYS29, 4-014, 46-0146 EZS1-8, 16-86

Class I, Division 1 & 2, Groups C,D Class II, Division 1, Groups F,G Class II, Division 2, Groups F,G Class III

- UL Standard: 886
- CSA Standard: C22.2

Vertical female

Vertical male & female







Vertical or horizontal male & female



EYS

For Sealing in Vertical Positions Only

Hub Size	Female Hub Cat. #	Male & Female Hub Cat. #	Approximate Internal Volume in Cubic Inches
1/2	EYS1*	EYS16*	1
3/4	EYS2*	EYS26*	2
1	EYS3*	EYS36*	33/4

For Sealing in Vertical or Horizontal Positions

			Approxii	
	Female	Male &	Internal	Volume
Hub	Hub	Female	in Cubic	Inches
Size	Cat. #	Hub Cat. #	Vertical	Horizontal
1/2	EYS11*	EYS116*	1	1
3/4	EYS21*	EYS216*	2	2
1	EYS31*	EYS316*	3	33/4
11/4	EYS41	EYS416	6	8
11/2	EYS51	EYS516	103/4	121/4
2	EYS61	EYS616	19	223/4
21/2	EYS71	EYS716	25 ½	30
3	EYS81	EYS816	56	641/2
31/2	EYS91	EYS916	72	82
4	EYS101	EYS1016	95	110

NOTE: Sealing fittings are approved for use in hazardous locations only when *Chico*[®] *X* fiber and *Chico A* sealing compound or Chico SpeedSeal are used to make the seal.

Dimensions EYS 16 Series

Size	а	b	Turning Radius	а	b	Turning Radius
1/2	39/32	11/4	15/8	311/16	11/4	15/32
3/4	3 ¹² / ₁₆	1 ½	129/32	311/16	11/2	11/4
1	4 5⁄16	13/4	23/8	4 5⁄16	13/4	13/8
EYS 4	6 Series					
11/4	5 ½16	2 3/16	1 ²³ / ₃₂	51/16	2 3/16	1 ²³ / ₃₂
11/2	51/2	27/16	21/16	51/2	2 7/16	21/16
2	61/4	3	2 5/16	61/4	3	25/16
2 ½	71/2	31/2	211/16	71/2	31/2	211/16
3	81/2	41/4	3 5⁄16	81/2	41/4	3 5⁄16
31/2	9 3⁄16	43/4	37/16#	93/16	43/4	37/16#
4	93/4	51/4	311/16#	93/4	51/4	311/16#
5	11 ½16	61/2	419/32#			
6	12½	7 5⁄8	5 ¹ 1/32 [‡]			

EYS 116 Series

[‡] With cover removed.



^{*} Available in copper-free aluminum – to order, add suffix SA to Cat. No.

Condulet® Sealing Fittings

Chico Sealing Compound and Fiber Page 193

Cl. I, Div. 1 & 2, Groups C,D Cl. II, Div. 1, Groups E,F,G Cl. II, Div. 2, Groups F,G Cl. III

ups C,D Explosionproof E,F,G Dust-Ignitionproof F G

Vertical or horizontal male & female





EYS
For Sealing in Vertical or
Horizontal Positions

				imate I Volume
	Female	Female		c Inches*
Hub	Hub	Hub	Verti-	Hori-
Size	Cat. #	Cat. #	cal	zontal
11/4	EYS4*	EYS46*	6	8
11/2	EYS5*	EYS56*	103/4	121/4
2	EYS6*	EYS66*	19	223/4
21/2	EYS7*	EYS76*	25 ½	30
3	EYS8*	EYS86*	56	641/2
31/2	EYS9*	EYS96*	72	82
4	EYS10*	EYS106*	95	110
5	EYS012	EYS0126	200	222
6	EYS014	EYS0146	290	315

Elbow seal



EYS
Elbow Seal - For Sealing in Vertical Positions

		Approximate
Hub		Internal Volume
Size	Cat. #	in Cubic Inches
3/4	EYS29	13/4

Male & Female hub

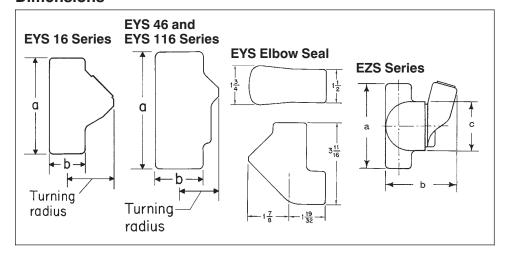




EZS
For Sealing
at Any Angle

	Female	Male & Female	Internal Volume in Cubic Inches		
Hub	Hub	Hub	Verti-	Hori-	
Size	Cat. #	Cat. #	cal	zontal	
1/2	EZS1	EZS16	61/4	61/4	
3/4	EZS2	EZS26	61/2	61/2	
1	EZS3	EZS36	101/4	101/4	
11/4	EZS4	EZS46	121/2	12 ½	
11/2	EZS5	EZS56	141/2	141/2	
2	EZS6	EZS66	46	46	
21/2	EZS7	EZS76	55	55	
3	EZS8	EZS86	90	90	

Dimensions



EYS Elbow Seal

			Turning Radius
Size	a	b	(Vertical)
¾	3 ¹ 1⁄ ₁₆	1¾	

EZS Series

				i urning
Size	а	b	С	Radius†
1/2	43/16	35/8	21/2	17⁄8
3/4	43/16	35/8	21/2	1 1//8
1	415/16	331/32	3	21/8
11/4	5 ½16	413/32	3	2 5/16
11/2	5 ³ ⁄ ₁₆	49/16	31/4	211/32
2	7 ½16	5 ¹³ / ₃₂	5 ³ / ₁₆	39/32
21/2	7 ¹⁵ / ₁₆	527/32	5 3/16	3 %
3	85/8	61/2	5 ⁷ / ₈	37/8

† With cover removed.



 $[\]mbox{\ensuremath{^{\star}}}$ Available in copper-free aluminum – to order, add suffix SA to Cat. No.

Condulet® Sealing Fittings With Drains

Chico Sealing Compound and Fiber Page 193

Cl. I, Div. 1 & 2, Groups B,C,D§ Explosionproof CI. II, Div. 1, Groups E,F,G **Dust-Ignitionproof** Cl. II. Div. 2. Groups F.G CLIII

1/2"-1"

Application:

EYD drain and EZD drain and inspection sealing fittings:

- restrict the passage of gases, vapors or flames from one portion of the electrical installation to another at atmospheric pressure and normal ambient temperatures
- limit explosions to the sealed-off enclosure
- prevent precompression or "pressure piling" in conduit systems

Drain sealing fittings are installed in vertical conduit runs and at low points in conduit systems to prevent accumulation of condensate above seal.

These sealing fittings are required as described on page 184.

Features:

EYD and EZD drain sealing fittings include:

- drain to provide continuous, automatic drainage of condensate
- large openings with threaded closures to provide easy access to conduit hubs for making dams
- integral bushings to protect conductor insulation from damage
- taper-tapped hubs to ensure ground continuity

EZD drain and inspection sealing fittings also include:

- removable covers for periodic inspection of seals
- barrier for sealing compound easily installed after dams are made and before compound is poured.

Standard Materials:

- Bodies, and inspection or drain covers -Feraloy® iron alloy and/or ductile iron
- Closure for drain copper-free aluminum or ductile iron
- Small closure plug Feraloy iron alloy and/or steel
- Drain stainless steel
- Removable nipples steel

Standard Finishes:

- Feraloy iron alloy and ductile iron electrogalvanized and aluminum acrylic paint
- Copper-free aluminum natural
- Stainless steel natural
- Steel electrogalvanized

Options:

 Copper-free aluminum bodies, nipples and enclosures - add suffix - SA*

Size Ranges:

- EYD ½" 4"
- EZD ½" 2"

Certifications and Compliances:

NEC/CEC:

• EYD11-101, 116-1016

Class I, Division 1 & 2, Groups B,C,D Class II, Division 1, Groups E,F,G Class II, Division 2, Groups F,G Class III

• EYD1-10, 16-106 EZD10-60, 111-611

Class I, Division 1 & 2, Groups C,D Class II, Division 1, Groups F,G Class II, Division 2, Groups F,G Class III

- UL Standard: 886
- CSA Standard: C22.2

NOTE: Sealing Fittings are approved for use in hazardous locations only when Chico® X fiber and Chico A sealing compound or Chico SpeedSeal are used to make the seal.

1/2"-1"

Female hub





11/4"-4"

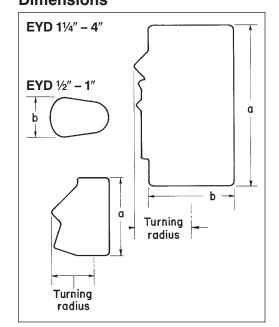
Male & female hub

EYD Drain Seal

Hub Size	Female Hub Cat. #	Male & Female Hub Cat. #	Female Hub Cat. #	Male & Female Hub Cat. #	Approximate Internal Volume in Cubic Inches
1/2	EYD1*	EYD16*	EYD11	EYD116	1
3/4	EYD2*	EYD26*	EYD21	EYD216	2
1	EYD3*	EYD36*	EYD31	EYD316	33/4
11/4	EYD4*	EYD46*	EYD41	EYD416	8
11/2	EYD5*	EYD56*	EYD51	EYD516	10¾
2	EYD6*	EYD66*	EYD61	EYD616	20
2 ½	EYD7*	EYD76*	EYD71	EYD716	35
3	EYD8*	EYD86*	EYD81	EYD816	57
31/2	EYD9*	EYD96*	EYD91	EYD916	75
4	EYD10*	EYD106*	EYD101	EYD1016	105



Dimensions



EYD Drain Seal

Size	а	b	Turning Radius
1/2	3 %32	11/2	15/8
3/4	311/16	13/4	1 ²⁹ / ₃₂
1	4 5/16	2 3/16	23/8
11/4	5 ½16	2 3/16	127/32†
11/2	51/2	27/16	21/16†
2	61/4	3	25/16†
21/2	7 ½	31/2	211/16
3	81/2	41/4	35/16†
31/2	9 3/16	43/4	37/16†
4	93/4	51/4	31/2†

- § See Certifications and Compliances for classification of each product.
- † With cover removed.
- * Available in copper-free aluminum to order, add suffix SA to Cat. No.

Condulet® Sealing Fittings with Drain and Inspection Cover

Chico Sealing Compound and Fiber Page 193

CI. I, Div. 1 & 2, Groups C,D Cl. II, Div. 1, Groups E,F,G Cl. II, Div. 2, Groups F,G CI. III

Explosionproof Dust-Ignitionproof

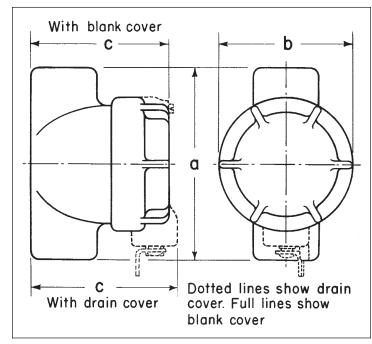




EZD With Drain Cover

Hub Size	Cat. #	Approximate Internal Volume in Cubic Inches
1/2	EZD111	5
3/4	EZD211	6
1	EZD311	10
11/4	EZD411	11
11/2	EZD511	13
2	EZD611	40

Dimensions



EZD Drain and
Inspection Seals

			Cover	Turning
Size	а	b	С	Radius†
1/2	4 ³ ⁄ ₁₆	3	3%	21/16
3/4	43/16	3	3 5⁄8	2 3/16
1	4 ¹⁵ / ₁₆	31/2	37/8	27/16
11/2	4 ¹⁵ ⁄ ₁₆	31/2	4 ⁵ / ₁₆	2 5/8
11/2	53/16	31/2	49/16	211/16
2	71/8	5 %16	51/4	311/16

Drain

† With Cover removed.

EYSX Expanded Fill Sealing Fittings

Chico Sealing Compound and Fiber Page 193

Cl. I, Div. 1 & 2, Groups B,C,D ◆ Explosionproof CI. II, Div. 1, Groups E,F,G

Cl. II, Div. 2, Groups F,G

CI. III

Vertical or horizontal female

Dust-Ignitionproof



EYSX Expanded Fill Sealing Fittings:

- restrict the passage of gases, vapors or flames from one portion of the electrical installation to another at atmospheric pressure and normal ambient temperatures
- limit explosions to the sealed-off enclosure
- limit precompression or "pressure piling" in conduit systems
- provide 40% wire fill capacity to allow uninterrupted runs in a conduit system

Sealing fittings are required:

- at each entrance to an enclosure housing an arcing or sparking device when used in Class I. Division 1 and 2 hazardous locations. To be located as close as practicable and, in no case, more than 18" from such enclosures
- at each entrance of 2" size or larger to an enclosure or fitting housing terminals, splices or taps when used in Class I, Division 1 hazardous locations. To be located as close as practicable and, in no case, more than 18" from such enclosures
- in conduit systems when leaving Class I, Division 1 or 2 hazardous locations
- in cable systems when the cables either do not have a gas/vaportight continuous sheath or are capable of transmitting gases or vapors through the cable core when those cables leave the Class I, Division 1 or 2 hazardous locations

Features:

EYSX Expanded Fill Sealing Fittings provide: • a 40% wire fill capacity for expanded fill

- large openings with threaded closures to provide easy access to conduit hubs for making dams
- integral bushings in conduit hubs to protect conductor insulation from damage
- taper-tapped hubs to ensure ground continuity
- minimum turning radius

EYSX Expanded Fill Sealing Fittings are available for installation in both horizontal or vertical positions.

Standard Materials:

- Bodies Feraloy® iron alloy and/or ductile iron or copper-free aluminum (SA Suffix)
- Closures Feraloy iron alloy and/or steel or copper-free aluminum (SA Suffix)

Standard Finishes:

- Feraloy iron alloy and ductile iron electrogalvanized and aluminum acrylic paint
- Steel electrogalvanized
- Copper-free aluminum natural

Options:

• Copper-free aluminum bodies and enclosures - add suffix SA

Size Ranges:

½" – 4"

Certifications and **Compliances:**

NEC/CEC:

EYSX11 - EYSX81

Class I, Division 1 and 2, Groups B,C,D Class II, Division 1, Groups E,F,G Class II, Division 2, Groups F,G Class III

EYSX9, EYSX10, EYSX1 SA - EYSX10 SA

Class I, Division 1 and 2, Groups C,D Class II, Division 1, Groups E,F,G Class II, Division 2, Groups F,G Class III

• UL Standard: 886

• CSA Standard: C22.2 No. 30

EYSX Expanded Fill Sealing **Fittings**

For Sealing in Vertical or Horizontal **Positions**

Internal

l I la	Female	Volume in Cubic Inches	1
Hub Size		Vertical	Horizontal
1/2	EYSX11*	2	2
72 1/2	EYSX1 SA		2
72 3/4	EYSX21*	3	33/4
94 3/4	EYSX2 SA	3	33/4
74 1	EYSX31	6	8
1	EYSX3 SA		8
1 11⁄4		19	22 ³ / ₄
		-	
	EYSX4 SA		223/4
1½		19	223/4
11/2		19	223/4
2	EYSX61	56	64½
2	EYSX6 SA		641/2
21/2	EYSX71	72	82
21/2	EYSX7 SA		82
3	EYSX81	95	110
3	EYSX8 SA	95	110
31/2	EYSX9*	200	222
31/2	EYSX9 SA	200	222
4	EYSX10*	200	222
4	EYSX10 SA	200	222

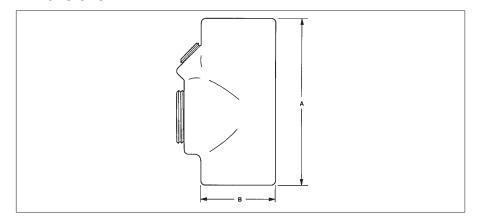


NOTE: Sealing fittings are approved for use in hazardous locations only when Chico® X fiber and Chico A sealing compound or Chico SpeedSeal are used to make the seal.

NPT			Turning
Size	Α	В	Radius
1/2	311/16	1 ½	11/4
3/4	4 ⁵ ⁄ ₁₆	13/4	13/8
1	5 ½16	2 ³ / ₁₆	1 ²³ / ₃₂
11/4	61/4	3	2 5/16
11/2	61/4	3	2 5/16
2	81/2	41/4	3 5⁄16
21/2	9 3⁄16	43/4	37/16#
3	93/4	51/4	311/16#
31/2	11 ½16	61/2	419/32#
4	111/16	61/2	419/32±

- ‡ With plug cover removed.
- See Certifications and Compliances for classification of each product.
- * Feralov®
- ‡ With cover removed.

Dimensions





EYDX Expanded Fill Sealing Fittings With Drains

Chico Sealing Compound and Fiber Page 193

Cl. I, Div. 1 & 2, Groups B,C,D§ Explosionproof Cl. II, Div. 1, Groups E,F,G Cl. II. Div. 2. Groups F.G. CLIII

Dust-Ignitionproof

1"-3"

Application:

EYDX Expanded Fill Sealing Fittings with

- restrict the passage of gases, vapors or flames from one portion of the electrical installation to another at atmospheric pressure and normal ambient temperatures
- limit explosions to the sealed-off enclosure
- prevent precompression or "pressure piling" in conduit systems
- provide 40% wire fill capacity to allow uninterrupted runs in a conduit system

Drain sealing fittings are installed in vertical conduit runs and at low points in conduit systems to prevent accumulation of condensate above seal.

These sealing fittings are required as described on page 184.

Features:

EYDX Expanded Fill drain sealing fittings provide:

- a 40% wire fill capacity for expanded fill sealing
- drain to provide continuous, automatic drainage of condensate
- large openings with threaded closures to provide easy access to conduit hubs for making dams
- integral bushings to protect conductor insulation from damage
- taper-tapped hubs to ensure ground continuity

Standard Materials:

- Bodies and drain covers Feralov® iron alloy, and ductile iron or copper-free aluminum (SA Suffix)
- Closure for drain copper-free aluminum or malleable iron
- Small closure plug Feraloy iron alloy and/or steel or copper-free aluminum (SA
- Drain stainless steel

Standard Finishes:

- Feraloy iron alloy and ductile iron electrogalvanized and aluminum acrylic paint
- Copper-free aluminum natural
- Stainless steel natural
- Steel electrogalvanized

Options:

• Copper-free aluminum bodies and closures - add suffix - SA

Size Ranges:

EYDX - ½" - 3"

Certifications and Compliances:

NEC/CEC:

EYDX11 - EYDX81

Class I, Division 1 and 2, Groups B,C,D Class II, Division 1, Groups E,F,G Class II, Division 2, Groups F,G Class III

EYDX1 SA - EYDX8 SA

Class I, Division 1 and 2, Groups C,D Class II, Division 1, Groups F,G Class II, Division 2, Groups F,G Class III

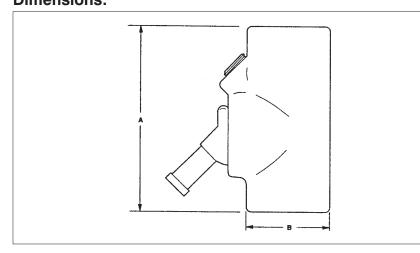
- UL Standard: 886
- CSA Standard: C22.2 No. 30

NOTE: Sealing Fittings are approved for use in hazardous locations only when Chico® X fiber and Chico A sealing compound or Chico SpeedSeal are used to make the seal.



1/2"-3/4"

Dimensions:



EYDX NPT Size	A	В	Turning Radius
1/2	311/16	13/4	1 ²⁹ / ₃₂
3/4	4 5⁄16	2 3/16	23/8
1	51/16	23/16	127/32†
11/4	61/4	3	25/16†
11/2	61/4	3	25/16†
2	81/2	41/4	35/16†
21/2	9 3/16	43/4	37/16†
3	93/4	51/4	3½†

EYDX Expanded Fill Sealing Fittings

		internai
		Volume in
Hub	Female Hub	Cubic
Size	Cat. #	Inches
1/2	EYDX11*	2
1/2	EYDX1 SA	2
3/4	EYDX21*	3¾
3/4	EYDX2 SA	33/4
1	EYDX31	8
1	EYDX3 SA	8
11/4	EYDX41	20
11/4	EYDX4 SA	20
11/2	EYDX51	20
11/2	EYDX5 SA	20
2	EYDX61	57
2	EYDX6 SA	57
21/2	EYDX71	75
21/2	EYDX7 SA	75
3	EYDX81	105
3	EYDX8 SA	105

§ See Certifications and Compliances for classification of each product.



[†] With drain cover removed.

^{*} Feraloy®

Chico Sealing Compound and Fiber Page 193

Cl. I, Div. 2, Groups C,D Cl. II, Div. 2, Groups E,F,G Explosionproof **Dust-Ignitionproof**

Application:

Application:

EYSR retrofit sealing fittings are installed:

- in rigid metal conduit systems in Class I, Division 2 hazardous locations
- to replace installed Cooper Crouse-Hinds type EYS or EYD sealing fittings
- without disassembly of the conduit system
- in vertical or horizontal positions, indoors or
- to restrict the passage of gases, vapors, or flames from one portion of the electrical system to another at atmospheric pressures and normal ambient temperatures
- to limit explosions to the sealed-off enclosure
- to limit precompression or "pressure piling" in the conduit system
- to prevent accumulation of water in the conduit system when installed with an ECD15 drain

Features:

- Seal may be installed in the existing conduit run without disassembly of the conduit system saving time and labor
- Overall length and spacing requirements do not exceed those of standard EYS seals; permits close nesting of seals
- Pipe plugs permit the installation of a standard ECD 15 drain fitting (order separately) for use in vertical conduit runs to drain any water that might accumulate in the conduit system
- Steel set screws provide grounding continuity
- Suitable for vertical and horizontal installations for indoor and outdoor applications
- Available in 3/4" to 4" NPT sizes.

Standard Materials:

- Body Feraloy® iron alloy
 Pipe plugs, bolts and set screws steel
- Gasket neoprene

Standard Finishes:

- Feraloy iron alloy electrogalvanized and aluminum acrylic paint
- Steel electrogalvanized
- Gasket natural

Options:

• Copper-free aluminum – add suffix -SA to Cat. No.

Size Ranges:

• ³/₄" - 4"

Certifications and Compliances:

- NEC: Class I, Division 2, Groups C,D Class II, Division 2, Groups E,F,G
- UL Standard: 886, 1203
- CEC: Class I, Division 1, Groups C,D Class II, Division 1, Groups E,F,G
- CSA Standard: C22.2 No. 30

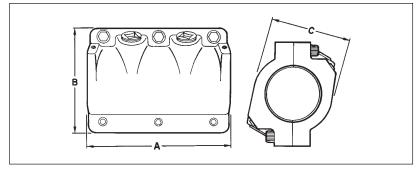
NOTE: EYSR sealing fittings are approved for use in hazardous locations only when Chico® A sealing compound and Chico X fiber are used to make the seal.



Hub		Approximate Internal Volume in Cubic Inches*		Approximate Amount (oz of Fiber per Hub	
Size	Cat. No.	Vert.	Horiz.	Vert.	Horiz.
3/4	EYSR2	31/2	53/4	1/16	1/8
1	EYSR3	43/4	91/2	1/8	1/4
11/4	EYSR4	7	131/2	1/4	1/2
11/2	EYSR5	121/4	241/4	1/2	1
2	EYSR6	253/4	401/2	1	2
21/2	EYSR7	48	75 ½	1 ½	3
3	EYSR8	861/2	126	2	4
31/2	EYSR9	147	210	41/2	9
4	EYSR10	186	252	41/2	9

^{*} Use the approximate internal volume in cubic inches to determine how much Chico A sealing compound is required.

Dimensions



Cat. No.	Α	В	С	Cat. No.	Α	В	С
EYSR2	311/16	21/2	1 ½	EYSR7	71/2	5	37/8
EYSR3	4 3⁄8	31/8	31/8	EYSR8	81/2	51/2	41/4
EYSR4	5	3 %	3	EYSR9	913/64	61/16	43/4
EYSR5	51/4	3 5⁄8	3	EYSR10	93/4	6 5⁄8	51/4
FYSR6	61/4	4	3				



ES Sealing Hubs

Chico Sealing Compound and Fiber Page 193

Cl. I, Div. 1 & 2, Groups C,D Explosionproof Watertight

Application:

ES sealing hubs are used to:

- seal vertical conduit risers at switchgear and motor control centers, sheet metal structures or cast boxes and enclosures
- Seal horizontal conduit runs at enclosures when used with TSC sealing compound.

Standard Materials:

• Feraloy® iron alloy

Standard Finishes:

• Electrogalvanized and aluminum acrylic paint

Options:

ES sealing hubs, when used with SG armored gaskets and locknuts, provide a water and oiltight connection

 Sealing gaskets and locknuts – add suffix SG to Cat. No.

Certifications and Compliances:

- Class I, Division 1 & 2, Groups C & D
- UL Standard: 886

Dimensions

• CSA Standard: C22.2 No. 30

Typical Installations



Female Hub Size	Male Hub Size	Cat. #	Approximate Internal Volume in Cubic Inches
1/2	1	ES31	.65
3/4	1	ES32	.65
1	11/2	ES53	3.2
11/4	2	ES64	4.9
11/2	2	ES65	4.7
2	21/2	ES76	9.1
3	4	ES108	36.0
4	5	ES01210	95.0
5	6	ES014012	155.0

NOTE: Sealing hubs are approved for use in hazardous locations when Chico® X fiber and Chico A sealing compound are used to make the seal. Sealing hubs are approved for horizontal conduit runs for use in hazardous locations when used with TSC sealing compound, order 1 oz. tube as TSC1.

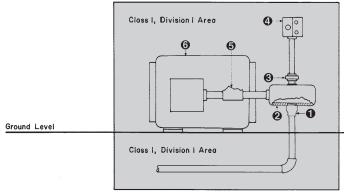


TSC Epoxy Sealing Compound

A two part epoxy sealing compound may be used to seal ES sealing hubs. It is quick and easy to measure, mix and install. The compound is kneaded until a uniform color is obtained. It is then packed around the conductors to effectively seal the cable.

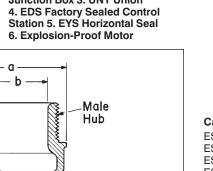
Std. Ctn. Qty.	Tube Size	Cat. # **
10	0.5 oz	TSC05
10	1.0 oz	TSC1
5	4.0 oz	TSC4

** Order quantity of one (1) TSC05 or TSC1 equals 10 tubes; one (1) TSC4 equals 5 4.0 oz tubes.



Junction Box 3. UNY Union

1. ES Sealing Hub 2. EJB



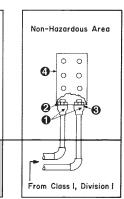
Female Hub

1. ES Sealing Hub 2. LT Connector 3. Locknut 4. Sealing Gasket 5. Junction Box 6. UNY Union 7. Synchronous Motor 8. EDS Factory Sealed Control Station 9. LT Conduit

Class I, Division I Area

Class I,

Division 2 Area



- 1. ES Sealing Hub
- 2. Locknut
- 3. Sealing Gasket
- 4. Sheet Metal Structure. Motor Control Center, Panelboard, Unit Substation, Etc.

Cat. #	а	b	С	d	е
ES31	1 %16	7/8	2	2 5/32	11/4
ES32	1 13/16	7/8	2	25/32	11/2
ES53	21/4	13/8	23/4	1 15/16	13/4
ES64	23/4	13/4	23/4	1 15/16	2 ³ / ₁₆
ES65	23/4	1 5⁄8	31/16	2	2 ⁷ / ₁₆
ES76	31/2	21/16	3 %16	2	3
ES108	51/4	3 5⁄8	43/4	2 ³¹ / ₃₂	41/4
ES01210	6 5⁄8	4 5/8	63/4	427/32	51/4
ES014012	71/4	525/32	71/4	511/32	61/2



d

Secondary Process Sealing Fittings



Cooper Crouse-Hinds Secondary Process Sealing Fittings are designed to prevent the passage of gases under pressure through conduits, cables and conductors. They are ideal where volatile liquids or gases are stored, processed or transported under pressure. If the primary seal on an instrument should fail, the Cooper Crouse-Hinds Secondary Process Seal will prevent gases from migrating into the nonclassified location through the electrical system. This patent pending design is the first seal which is tested and certified for pressure applications.

Features & Benefits

- Exclusive, patent-pending design the first third-party approved secondary process
- Standard pressure applications up to 40 psi (2.8 bar)
- High-pressure applications up to 500 psi (35 bar)
- Kit contains everything required for complete installation
- EABX26-SA body with 3/4" tapered threaded hubs to provide ground continuity
- GUA062-GB sealing cover
- GUAC26-SA body and cover
- Process seal vent
- Pressure relief tube
- ECD16 Breather
- Chico SS2 SpeedSeal (2) 2 oz Cartridges
- Chico X fiber packet
- PLG2-SA 3/4" plug
- RE21-SA 3/4" to 1/2" reducer
- Solder Sleeve connectors (4)
- High-pressure fitting for PSHP (highpressure) version only
- UNF205 Explosionproof union for PSHP (high-pressure) version only

Standard Materials & **Finishes**

- EAB Body copper-free aluminum
- GUA Body and Cover copper free aluminum
- High-pressure sealing fitting Stainless steel with viton seal
- ECD16 breather Stainless steel
- UNF205 Union copper-free aluminum
- Reducers and Plugs copper-free aluminum
- Process seal vent silicon rubber
- Pressure relief tube polyethylene

Ordering Information

Secondary Process Sealing Fitting Kit for Standard pressure up to 40 psi (2.8 bar)

Trade	Conductor	Catalog
Size	Size	Number
3/4"	10-14 AWG	EABX26-SA-PS



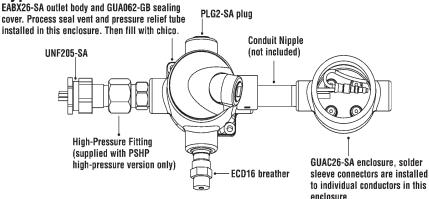
Ratings

- Pressure ratings
- Standard version pressure up to 40 psi (2.8 bar)
- High-pressure version pressure up to 500 PSI (35 bar)
- Temperature range -25°C to +55°C

Certifications & Compliances

- Class I, Division 1 & 2, Groups C,D
- CSA LTR Number HazLoc 031120





High-Pressure Secondary Process Sealing Fitting Kit for pressure up to 500 psi (35 bar)

Trade Size	Conductor Size	Catalog Number
3/4"	10 AWG	EABX26-SA-PSHP10
3/4"	12 AWG	EABX26-SA-PSHP12
3/4"	14 AWG	EARY26-SA-DSHD1/



Chico® A and Chico® A-P Sealing Compound Chico® X Fiber Chico® SpeedSeal™

For Sealing Fittings and Hubs

Application:

Chico X fiber:

• forms a dam between the integral bushing of the sealing fitting and the end of the conduit and around the electrical conductors entering the hub Chico A sealing compound:

• forms a seal around each electrical conductor and between them and inside of the sealing fitting to restrict the passage of gases, vapors or flames through the sealing fitting at atmospheric pressure and at normal ambient temperatures

Chico® SpeedSeal™ Compound:

Groups E, F & G hazardous areas.

- designed to separate and form an explosion proof seal around each electrical conductor in Crouse-Hinds EYS and EYD sealing fittings.
- restricts the passage of gasses, vapors or flames through the sealing fitting.
 creates a seal for Class I, Division 1, Groups C & D and Class II, Division 1,

Features:

- Chico X fiber is a mineral wool that packs easily, forming around each conductor
- Chico A sealing compound is a water soluble powder, that can be easily
 mixed and poured. The compound, unusually dense, expands slightly
 when hardening and bonds to inner walls of sealing fittings. Compound
 hardens in 60-70 minutes
- Chico A cure time is 8 hours for class I, Group C and D applications and 72 hours for class I, Group A and B applications.
- Chico A has a 1 year shelf life from date of manufacture.
- Chico A ambient temperature range (after curing) is -40°F to +165°F.
- Chico A-P Intrapak*:

Packaged in two-compartment plastic pouch with precise amount of water for mixing. No mixing or measuring implements required.

A hard squeeze of the water compartment forces the water into the compartment containing the Chico compound. Mixing is completed by kneading the pouch for one minute.

The mixed sealing compound is poured directly into the sealing fitting – no funnel required. The package label indicates the size and quantity of sealing fittings each pouch will properly fill. Compound hardens in 60-70 minutes.

Chico® SpeedSeal™ Compound is a revolutionary material:

- installs a reliable seal in five minutes every time
- hardens to a dense, strong mass that is suitable for Class I, Division 1, Groups C & D and Class II, Division 1, Groups E, F & G hazardous applications.
- UL and cUL Listed for use with ½" to 2" Copper Crouse-Hinds sealing fittings only.
- packaged in a 2 oz. or 6 oz. pre-measured cartridge, eliminating the need for measuring before mixing.
- packaged with a screw-on nozzle for accurate dispensing.
- expands four times its original size in the sealing fitting, eliminating the need to separate the individual conductors with Chico X fiber.
- Chico X fiber dams are not required in horizontal applications, reducing installation times.
- completely hardens in 20 minutes, simplifying use for OEMs.
- suitable for cold temperature environments without the costly need to build a temporary shelter around sealing fittings. All ice crystals must be removed from inside the conduit seal before dispensing Chico SpeedSeal compound. The Chico SpeedSeal compound should be kept above 10°C (50°F) prior to mixing. The sealing fitting must be kept at or above 4°C (40°F) during the 4 to 10 minute expansion/gel time of the compound.
- one year shelf-life.

• patent pending

Size Ranges:

- Chico A compound 1 lb. to 5 lbs. (provides 23-115 cubic inches of compound)
- Chico X fiber 2 oz. to 1 lb.
- Chico A-P (5 pouches per carton) provides 25 and 55 cubic inches of compound.
- Chico SpeedSeal 2 oz. or 6 oz. cartridge

NOTE: Cooper Crouse-Hinds sealing fitting are approved for use in hazardous locations only when *Chico X* fiber and *Chico A* Sealing Compound or *Chico SpeedSeal* are used to make the seal.

 ${}^{\bigstar}$ A sixth pouch, containing an appropriate quantity of Chico X fiber, is included in these cartons.

† Number of cubic inches this amount will fill when set. See internal volume requirements for EYS, EZS, EYD, EZD and EYSR sealing fittings and ES sealing hubs (pages 184 to 191). ‡ Includes 1 oz. Chico X fiber.



Chico A Sealing Compound

 Net Weight
 Vol.

 1 lb.
 23
 Chico A3

 1 lb.‡
 23
 Chico A4

 5 lb.
 115
 Chico A05



Chico A-P Intrapak® (provided with Chico X fiber)

Sealing Compound and Water in Plastic Mixing Pouch

 Cu. In.
 No. of

 Fill per Pouches
 Carton

 Pouch†
 per Carton
 Cat. #

 5
 5
 Chico A19-PX*

 11
 5
 Chico A39-PX*



Chico X

Fiber Net Weight

 Weight
 Cat. #

 2 oz.
 Chico X4

 8 oz.
 Chico X6

 1 lb.
 Chico X7

Chart for Approximate Amount of Fiber Per Hub

Hub	Ozs.	
Size	Required	
1/2	1/32	
3/4	1/16	
1	1/8	
1-1/4	1/4	
1-1/2	1/2	
2	1	
2 1/2	1 1/2	
3	2	
3 1/2	3	
4	4 1/2	
5	7	
6	10	



Chico SpeedSeal Ordering Information:

•	•	
Sealing Fitting Catalog Number	Amount of SpeedSeal Material needed per fitting (in ounces)	SpeedSeal Catalog Number
EYS1, EYS16; EYS11, EYS116 EYD1, EYD16, EYD11, EYD116 EYS2, EYS26, EYS21, EYS216 EYD2, EYD26, EYD21, EYD216 EYSX11, EYDX11	1	CHICO SS2 (2 oz. Cartridge)
EYS3, EYS36, EYS31, EYS316 EYD3, EYD36, EYD31, EYD316 EYSX21, EYDX21	2	CHICO SS2 (2 oz. Cartridge)
EYS41, EYS416, EYS4, EYS46 EYD4, EYD46, EYD41, EYD416 EYS51, EYS516, EYS5, EYS56 EYD5, EYD56, EYD51, EYD516 EYSX31, EYDX31 EYSX41, EYDX41	3	CHICO SS6 (6 oz. Cartridge)
EYS61, EYS616, EYS6, EYS66 EYD6, EYD66, EYD61, EYD616 EYSX51, EYDX51	6	CHICO SS6 (6 oz. Cartridge)

MSDS sheets are available at www.crouse-hinds.com







Features and Benefits:

- The EYS Tool Kit consists of five tools and a canvas tool bag. Four tools have two unique ends for a total of 9 different tools.
- Each tool is numbered for easy identification.
- Tools are constructed of durable plastic with smooth and rounded surfaces that will not abrade the electrical insulation.
- The Hook tool (#3) with a large hook on one end and a small hook on the other end is designed to lift and separate individual wires.
- The Packing tools (#1, #2 & #4) have rounded ends designed for packing fiber in between and around electrical conductors.
- The Wedge tools (#2 & #5) are designed for hands-free separation of conductors while packing fiber.
- The Mirrored tool (#5) allows for easy inspection of the sealing
- All tools are sized and precisely angled to accomodate various sizes of fittings.
- The Canvas tool bag is designed to neatly store and protect tools while not in use.

Ordering Information: Catalog Number

EYS-TOOL-KIT

The Cooper Crouse-Hinds EYS Tool Kit lets you safely and reliably pack the fiber dam in explosionproof sealing fittings. Consisting of five patented, two-sided tools in a handy canvas bag, the EYS Tool Kit makes the critical steps of separating electrical conductors and packing fiber dams quick and easy.



The large hook on Tool #3 quickly lifts all the conductors.



With one of the packing tools, packing fiber in between and around electrical conductors is effortless.



The mirrored tool allows for proper inspection of the fiber dam in difficult to see areas.



Application:

- ECD drains and breathers are installed in enclosures or conduit systems to:
- -provide ventilation to minimize condensation
- drain accumulated condensate
- At least one breather should be used with each drain
- A breather is installed in top of enclosure or upper section of conduit system
- A "standard" drain is installed in bottom of enclosure or in lower section of conduit system
- "Universal" breather or drain functions as a breather when mounted at the top of an enclosure, or as a drain when mounted in the bottom of an enclosure
- "Combination" breather and drain is used in those applications where the use of a top mounted breather is not practical due to limited space; or in offshore and marine installations where moisture may enter the enclosure through the breather located on top of enclosure
- Drains and breathers are installed in hubs or drilled and tapped openings

Features:

ECD284, ECD384, ECD385 and ECD15 "Universal" drains and breathers have:

- patented labyrinth design, suitable for use in Class I, Division 1 & 2, Groups C,D and Class II, Division 1 & 2, Groups F,G areas
- capability to pass 50 cc of water per minute and 0.2 cubic feet or air per minute at atmospheric pressure
- ECD15 and ECD385 each have a well inside the inner, threaded end to provide for accumulation of sediment without clogging when used as a drain.
- "Standard" ECD drains and breathers have:

 thread-in-thread design, suitable for use in Class I, Division 1 & 2, Groups C,D; Class II, Division 1, Groups E,F,G; Class II, Division 2, Groups F,G and Class III areas
- ECD 11, 13 have capability to pass 25 cc of water per minute and .05 cubic feet of air per minute at atmospheric pressure
- ECD387 and ECD16 are a unique thread-inshaft design for use in Class I, Division 1 & 2, Groups B,C,D; Class II, Division 1, Groups E,F,G; Class II, Division 2, Groups F,G; Class III areas. The ECD387 and ECD16 can pass 15cc of water per minute. The ECD16 can pass .01 cubic feet of air per minute. "Combination" ECD breather and drain:
- provides ventilation to minimize condensation and drains accumulated condensate – two functions performed by a single device installed in the bottom of an enclosure or conduit system
- Have the capability to pass 25 cc of water per minute and .10 cubic feet of air per minute at atmospheric pressure
- Thread-in-thread and labyrinth design, suitable for use in Class I, Division 1 & 2, Groups C and D; Class II, Division 1 & 2, Groups F and G; and Class III areas

Size Ranges

• 1/4" to 1/2"

ECD "Type 4X" Drain and Breather

Size	Drain Cat. #	Breather Cat. #
3/8	ECD38-N4D	ECD38-N4B
1/2	ECD1-N4D	ECD1-N4B

ECD "Standard" Drain and Breather

Size	Drain Cat. #	Breather Cat. #
1/4	ECD281	
3/8	ECD387	
1/2	ECD11	ECD13

ECD "Universal" Drain or Breather

Size	Cat. #
1/4	ECD284
3/8	ECD384
3/8	ECD385
1/2	ECD15
1/2	ECD16

ECD

"Combination" Drain and Breather

Size	Cat. #
1/2	ECD18

Standard Materials:

- ECD11, ECD15, ECD281, ECD284, ECD384, ECD385 stainless steel
- ECD13 stainless steel with aluminum cap
- ECD16, ECD-N4D, ECD-N4B stainless
- ECD387 stainless steel
- ECD18 Stainless steel with neoprene tube

Certifications and Compliances:

• NEC/CEC:

ECD 16, ECD387, ECD-N4D, ECD-N4B -

Class I, Division 1 & 2, Groups B,C,D Class II, Division 1, Groups E,F,G Class II, Division 2, Groups F,G Class III

ECD11. ECD13. ECD281 -

Class I, Division 1 & 2, Groups C,D Class II, Division 1, Groups E,F,G Class II, Division 2, Groups F,G Class III

ECD18, ECD384, ECD15, ECD385 -

Class I, Division 1 & 2, Groups C,D Class II, Division 1, Groups F,G Class II, Division 2, Groups F,G Class III

ECD284 -

Class I, Division 1 & 2, Group C,D Class II, Division 1, Groups F,G Class II, Division 2, Groups F,G

- UL: Standard 886
- CSA Standard: C22.2 No. 30
- Type 4X: ECD-N4D and ECD-N4B

† Shorter overall length than ECD15 and ECD385. For use in confined spaces such as panelboard assemblies.



Explosionproof

Dust-Ignitionproof





ECD13



ECD15



ECD16



ECD18



Typical installation of drain and breather in a combination motor starter

NOTES: 1. At least 5 full threads of drain or breather must be engaged in matching female thread, taper-tapped in accordance with NEMA/EEMAC Standard FB-1, Type NTC or National Bureau of Standards Handbook H28, Part II, Table 7.6.
2. These breathers and drains can be factory installed on various explosion-proof equipment. See options on applicable equipment pages for suffixes to be used.



Straight Body • Male Thread

Application:

CD Series drains are for use in conduit systems to:

- Drain accumulated condensate.
- Provide ventilation to minimize condensation.

Drains are installed in hubs or drilled and tapped openings.

Standard Materials:

- CD bodies and nuts steel or aluminum
- CD screen stainless steel

Standard Finishes:

• Steel - electrogalvanized with chromate treatment.

Certifications and Compliances:

• UL Standard 514B

Options:

• Copper-free aluminum construction - add suffix -SA

Ordering Information:

Size Cat. # CD1 1/2 3/4 CD₂

NEMA 4X BREATHER/DRAIN

ATEX and CENELEC Range



I M2 II 2GD. E Exe I & II (Stainless Steel & Brass only) II 2GD, E Exe II (Nylon version) CSA Class I, Division 2, Groups A, B, C & D, Exe II

Enclosure Type 4X **IP66**



Certifications and Compliances

- SIRA 99 ATEX 3050U
- I M2 II 2GD, E Exe I & II (Stainless Steel & Brass only)
- II 2GD, E Exe II (Nylon only)
- CSA Class I, Division 2, Groups A, B, C & D, Exe II
- Enclosure Type 4X

Operating Temperature • −50°C to +85°C

Application

For use in enclosures to provide a method to effectively drain moisture while allowing the enclosure to breathe.

Features

All NEMA 4X breather/drains offer:

- Castellated locknuts that allow moisture to pass between the enclosure and the locknut to the drain holes in the fitting.
- Available in brass, stainless steel (Type 316) or 30% glass filled
- Captive "O" ring on recess of the face of the breather/drain to optimize ingress protection.
- ATEX and CSA Certified for worldwide market acceptance.
- Available with metric or NPT threads.

Ordering Information NEMA 4X Breather/Drain

Entry Method	Material	Catalog Number
M20	Brass	ACDPEB/M20/15
M20	Stainless Steel	ACDPES/M20/15
M20	Nylon	ACDPEBN/M20/15
M25	Brass	ACDPEB/M25/15
M25	Stainless Steel	ACDPES/M25/15
M25	Nylon	ACDPEBN/M25/15
1/2"	Brass	ACDPEB/050NPT/15
1/2"	Stainless Steel	ACDPES/050NPT/15
3/4"	Brass	ACDPEB/075NPT/15
3/4"	Stainless Steel	ACDPES/075NPT/15

