
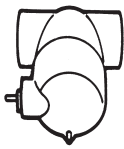
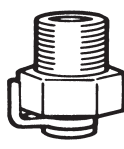

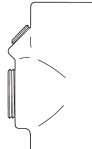
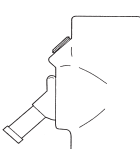





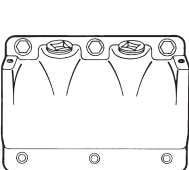



Conduit Seals, Breathers and Drains

6F

Shape Selector Chart Quick Selector Chart

| Series | Page | Series | Page | Series | Page | Series | Page | Series | Page | Series | Page |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|-----------------|
| EYS / EYSA | see page 140 | EZD | see page 145 | ECD Standard | see page 158 | ECD Universal | see page 158 | EYSX | see page 146 | EYDX | see page 147 |
|  | |  | |  | |  | |  | |  | |
| EYS Elbow Seal | see page 140 | ES | see page 149 |  | | EYD | see page 144 | EYSR | see page 144 | EZS | see page 141 |
|  | |  | |  | |  | |  | |  | |

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 ATEX | Seal | Ex II 2 G EEx d IIC | Vertical and Horizontal |
| EYSA | Seal | Flameproof, Exd, IIC | 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 |
| EZS ATEX | Seal | Ex II 2 G EEx d IIC | 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 | | |
| UHPS | Ultra High Pressure Seal | Class I, Div. 1, Groups B, C, D Certified to CSA Standards through QPS | |
| SPSR | Secondary Process Seal with Rupture Sensor | Class I, Div. 1 & 2, Groups B, C, D Class I, Zone 1 & 2 IIB + H ₂ Class II, Div. 1 & 2, Groups E, F, G | |

*Drain purchased separately.

Chico Sealing Compound and Fiber see pages 155–156

Cl. I, Div. 1 & 2, Groups A, B, C, D Explosionproof
Cl. II, Div. 1, Groups E, F, G Dust-Ignitionproof
Cl. II, Div. 2, Groups F, G
Cl. III

Applications:

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 sealed off 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.

Certifications and Compliances:

- NEC/CEC:

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

Class III

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: 1203

- CSA Standard: C22.2

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.

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:

Description

Copper-free aluminum bodies, nipples and enclosures

Suffix
SA

Size Ranges:

- ½" – 6"

Ordering Information - EYS



Vertical
female



Vertical
male &
female



Vertical or
horizontal
female



Vertical or
horizontal
male & female

For Sealing in Vertical Positions Only

| Hub Size | Female Hub Cat. # | Male & Female Hub Cat. # | Approximate Internal Volume in Cubic Inches |
|----------|-------------------|--------------------------|---|
| ½ | EYS1* | EYS16* | 1 |
| ¾ | EYS2* | EYS26* | 2 |
| 1 | EYS3* | EYS36* | 3¾ |

For Sealing in Vertical or Horizontal Positions

| Hub Size | Female Hub Cat. # | Male & Female Hub Cat. # | Approximate Internal Volume in Cubic Inches | |
|----------|-------------------|--------------------------|---|------------|
| | | | Vertical | Horizontal |
| ½ | EYS11* | EYS116* | 1 | 1 |
| ¾ | EYS21* | EYS216* | 2 | 2 |
| 1 | EYS31* | EYS316* | 3 | 3¾ |
| 1¼ | EYS41 | EYS416 | 6 | 8 |
| 1½ | EYS51 | EYS516 | 10¾ | 12¼ |
| 2 | EYS61 | EYS616 | 19 | 22¾ |
| 2½ | EYS71 | EYS716 | 25½ | 30 |
| 3 | EYS81 | EYS816 | 56 | 64½ |
| 3½ | EYS91 | EYS916 | 72 | 82 |
| 4 | EYS101 | EYS1016 | 95 | 110 |

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

Dimensions (In Inches)

EYS 16 Series

| Size | a | b | Turning Radius |
|------|---------------------------------|----|---------------------------------|
| ½ | 3 ⁹ / ₃₂ | 1¼ | 1 ⁵ / ₈ |
| ¾ | 3 ¹² / ₁₆ | 1½ | 1 ²⁹ / ₃₂ |
| 1 | 4 ⁵ / ₁₆ | 1¾ | 2 ³ / ₈ |

EYS 46 Series

| | | | |
|----|---------------------------------|--------------------------------|-----------------------------------|
| 1¼ | 5 ¹ / ₁₆ | 2 ³ / ₁₆ | 1 ²³ / ₃₂ |
| 1½ | 5½ | 2 ⁷ / ₁₆ | 2 ¹ / ₁₆ |
| 2 | 6¼ | 3 | 2 ⁵ / ₁₆ |
| 2½ | 7½ | 3½ | 2 ¹¹ / ₁₆ |
| 3 | 8½ | 4¼ | 3 ⁵ / ₁₆ |
| 3½ | 9 ⁹ / ₁₆ | 4¾ | 3 ⁷ / ₁₆ ‡ |
| 4 | 9¾ | 5¼ | 3 ¹¹ / ₁₆ ‡ |
| 5 | 11 ¹ / ₁₆ | 6½ | 4 ¹⁹ / ₃₂ ‡ |
| 6 | 12 ⁷ / ₈ | 7 ⁵ / ₈ | 5 ¹¹ / ₃₂ ‡ |

‡With cover removed.

EYS 116 Series

| a | b | Turning Radius |
|---------------------------------|----|---------------------------------|
| 3 ¹¹ / ₁₆ | 1¼ | 1 ²³ / ₃₂ |
| 3 ¹¹ / ₁₆ | 1½ | 1¼ |
| 4 ⁵ / ₁₆ | 1¾ | 1 ⁵ / ₈ |

EYS 116 Series

| | | |
|--------------------------------|--------------------------------|-----------------------------------|
| 5 ¹ / ₁₆ | 2 ³ / ₁₆ | 1 ²³ / ₃₂ |
| 5½ | 2 ⁷ / ₁₆ | 2 ¹ / ₁₆ |
| 6¼ | 3 | 2 ⁵ / ₁₆ |
| 7½ | 3½ | 2 ¹¹ / ₁₆ |
| 8½ | 4¼ | 3 ⁵ / ₁₆ |
| 9 ⁹ / ₁₆ | 4¾ | 3 ⁷ / ₁₆ ‡ |
| 9¾ | 5¼ | 3 ¹¹ / ₁₆ ‡ |

Crouse-Hinds
by **E.T.N**

Conduit Sealing Fittings

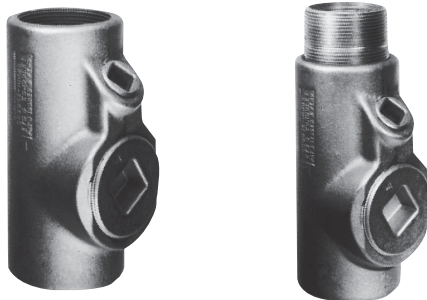
**Chico Sealing Compound
and Fiber see pages 155–156**

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

Explosionproof
Dust-Ignitionproof

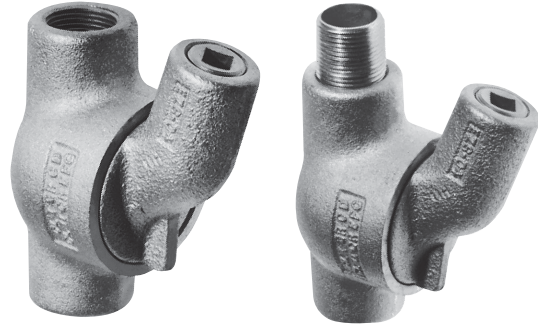
6F

Ordering Information - EYS



Vertical or horizontal male & female

Ordering Information - EZS



Male & female hub

For Sealing in Vertical or Horizontal Positions

| Hub Size | Female Hub Cat. # | Male & Female Hub Cat. # | Approximate Internal Volume in Cubic Inches | |
|----------|-------------------|--------------------------|---|--------|
| | | | Vert. | Horiz. |
| 1¼ | EYS4* | EYS46* | 6 | 8 |
| 1½ | EYS5* | EYS56* | 10¾ | 12¼ |
| 2 | EYS6* | EYS66* | 19 | 22¾ |
| 2½ | EYS7* | EYS76* | 25½ | 30 |
| 3 | EYS8* | EYS86* | 56 | 64½ |
| 3½ | EYS9* | EYS96* | 72 | 82 |
| 4 | EYS10* | EYS106* | 95 | 110 |
| 5 | EYS012 | EYS0126 | 200 | 222 |
| 6 | EYS014 | EYS0146 | 290 | 315 |

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

For Sealing at Any Angle

| Hub Size | Female Hub Cat. # | Male & Female Hub Cat. # | Approximate Internal Volume in Cubic Inches | |
|----------|-------------------|--------------------------|---|--------|
| | | | Vert. | Horiz. |
| ½ | EZS1 | EZS16 | 6¼ | 6¼ |
| ¾ | EZS2 | EZS26 | 6½ | 6½ |
| 1 | EZS3 | EZS36 | 10¼ | 10¼ |
| 1¼ | EZS4 | EZS46 | 12½ | 12½ |
| 1½ | EZS5 | EZS56 | 14½ | 14½ |
| 2 | EZS6 | EZS66 | 46 | 46 |
| 2½ | EZS7 | EZS76 | 55 | 55 |
| 3 | EZS8 | EZS86 | 90 | 90 |

EYS



Elbow seal

For Sealing in Vertical Positions

| Hub Size | Cat. # | Approximate Internal Volume in Cubic Inches |
|----------|--------|---|
| ¾ | EYS29 | 1¾ |

Dimensions In Inches

| | | | |
|---------------|---------------------------|----------------|------------|
| | | | |
| EYS 16 Series | EYS 46 and EYS 116 Series | EYS Elbow Seal | EZS Series |

EYS Elbow Seal

| Size | a | b | Turning Radius (Vertical) |
|------|---------|----|---------------------------|
| ¾ | 3 11/16 | 1¾ | 1 7/8 |

EZS Series

| Size | a | b | c | Turning Radius† |
|------|---------|---------|--------|-----------------|
| ½ | 4 9/16 | 3 5/8 | 2 1/2 | 1 7/8 |
| ¾ | 4 7/16 | 3 5/8 | 2 1/2 | 1 7/8 |
| 1 | 4 15/16 | 3 31/32 | 3 | 2 1/8 |
| 1¼ | 5 1/16 | 4 13/32 | 3 | 2 9/16 |
| 1½ | 5 3/16 | 4 9/16 | 3 1/4 | 2 11/32 |
| 2 | 7 1/16 | 5 13/32 | 5 3/16 | 3 9/32 |
| 2½ | 7 15/16 | 5 27/32 | 5 3/16 | 3 3/8 |
| 3 | 8 5/8 | 6 1/2 | 5 7/8 | 3 3/8 |

†With cover removed.

Crouse-Hinds

by **E•T•N**

www.crouse-hinds.com US: 1-866-764-5454 CAN: 1-800-265-0502 Copyright© 2013 Eaton's Crouse-Hinds Business

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for IEC Applications

6F

Applications:

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 sealed off 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

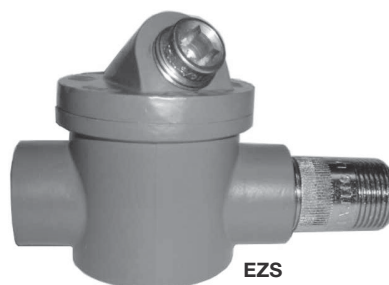
Features:

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.



EZS



EYS

Certifications and Compliances:

- IEC:
 - Ex II 2 G EEx d IIC
 - EC-Type examination certificate LOM 03 ATEX 2108
- IP67 according to EN 60529

Standard Materials:

- Bodies – Light alloy, natural finish
- Plugs – Light alloy, natural finish
- Removable nipples – Light alloy, natural finish

Size Ranges:

- YYS - 1/2" – 4"
- EZS - 1/2" – 1"

Ordering Information:

| Series | Mounting Direction | Hub Size | Cat. # |
|--------|--------------------|------------|---------------------|
| EYS | Vertical | 1/2" NPT | NOR 000 002 220 117 |
| EYS | Vertical | 3/4" NPT | NOR 000 002 220 125 |
| EYS | Vertical | 1" ISO | NOR 000 002 220 133 |
| EYS | Vertical | 1" NPT | NOR 000 002 220 620 |
| EYS | Horizontal | 1 1/2" NPT | NOR 000 002 220 160 |
| EYS | Horizontal | 2" NPT | NOR 000 002 220 168 |
| EZS | Horizontal | 1/2" NPT | NOR 000 002 220 216 |
| EZS | Horizontal | 3/4" NPT | NOR 000 002 220 224 |
| EZS | Horizontal | 1" ISO | NOR 000 002 220 232 |
| EZS | Horizontal | 1" NPT | NOR 000 002 220 729 |