



SEALING FITTINGS

Application & Installation

Class I, Divisions 1 and 2

The purpose of seals in a Class I hazardous location is to minimize the passage of gases and vapors and prevent the passage of flames from one electrical installation to another through the conduit system. Seals are required to be installed within 18 inches on any conduit run entering an enclosure which contains devices that may produce arcs, sparks, or high temperature. Where two enclosures are connected by a run of conduit not over 3 ft. long, a single seal located at the center of the run is considered satisfactory. Only explosionproof unions, couplings, elbows, and conduit bodies similar to "L", "T", and "X" type shall be permitted between the sealing fitting and the enclosure.

Seals shall be located within 18 inches of the enclosure or fitting on each conduit run of 2 inch size or larger entering an enclosure or fitting that contains terminals, splices, or taps.

Each run of conduit from a hazardous location to a nonhazardous location should be sealed to minimize the amount of gases and vapors communicated beyond the seal.

Class II, Divisions 1 and 2

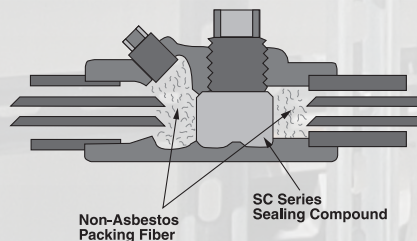
Where a raceway provides communication between an enclosure which is required to be dust-ignitionproof and one which is not, suitable means shall be provided to prevent the entrance of dust into the dust-ignitionproof enclosure through the raceway.

Consideration for selection seals:

Select the proper sealing fitting for the hazardous gas/vapor involved; i.e., Class I Groups A, B, C, or D. Zone 1, Groups IIC, IIB, IIC.

Select a sealing fitting for the proper use in respect to mounting position. This is particularly critical when the conduit runs between hazardous and nonhazardous areas. Some seals are designed to be mounted in any position; others are restricted to vertical mounting.

*** NOTE:** The amount of Killark sealing compound and packing fiber required for any seal is determined by volume hub size and mounting position of the seal. Refer to the IOM sheet of each seal off.



Schematic drawings illustrate the application of sealing compound, fiber dams, and installed seal with drain.



Drains

Where there is a probability that liquid or other condensed vapor may be trapped within enclosures for control equipment or at any point in the raceway system, approved means – such as installation of drain seals – shall be provided to prevent moisture accumulation.

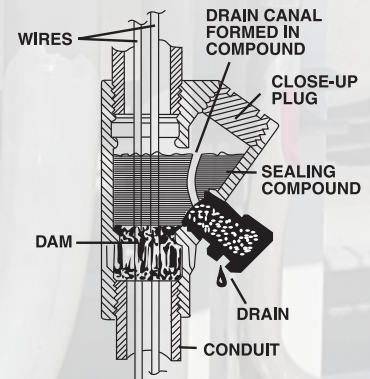
For more complete data or special applications, consult the code or your local inspector.

Sealing compounds shall be approved for the purpose and shall not be affected by the surrounding atmosphere or liquids, and shall not have a melting point of less than 93°C (200°F).

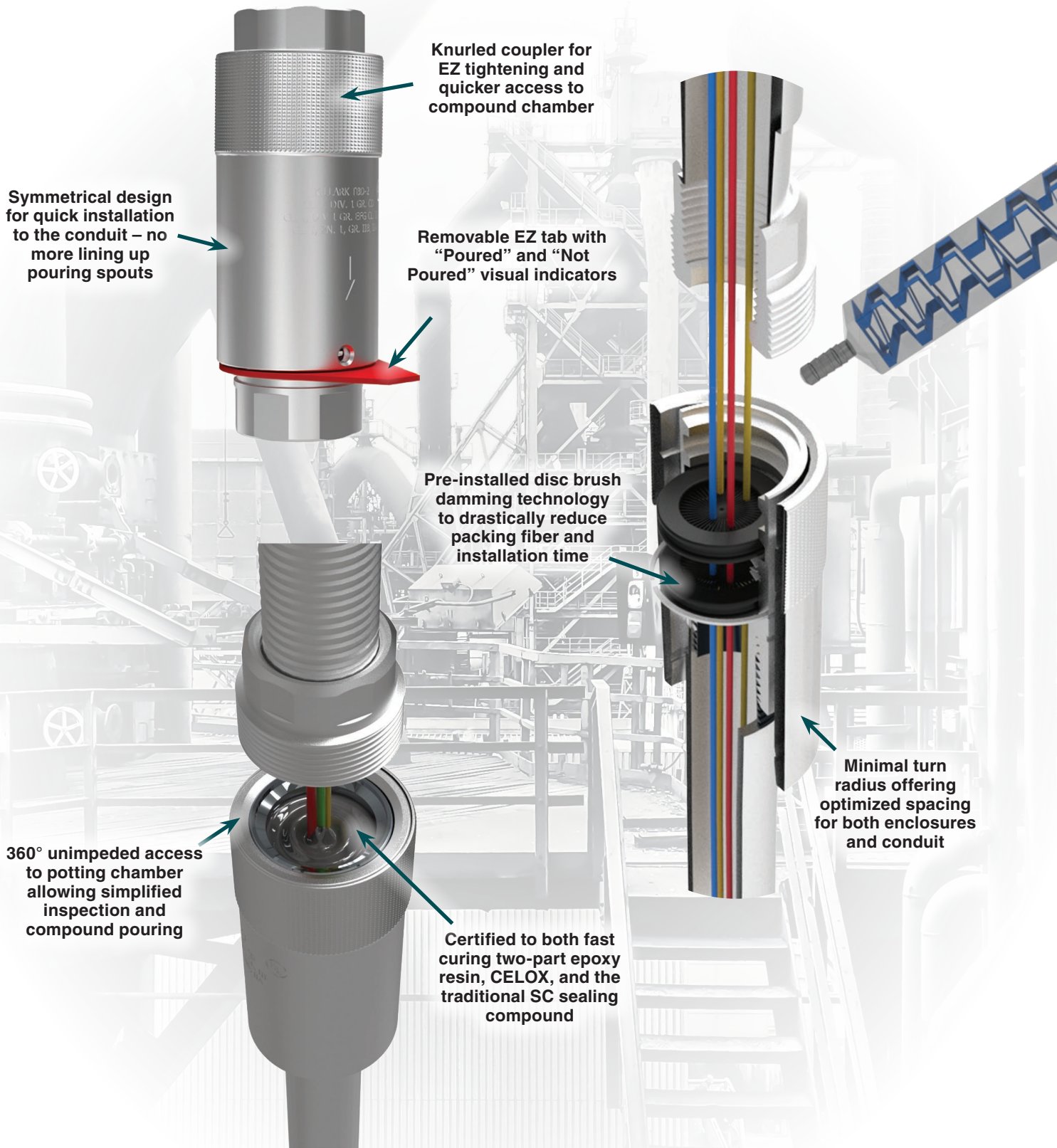
In the complete seal, the minimum thickness of the sealing compound shall not be less than the trade size of the conduit, and in no case less than $\frac{5}{8}$ inch.*

Splices and taps shall not be made in fittings intended only for sealing with compound, nor shall other fittings in which splices or taps are made be filled with compound.

Killark sealing fittings are produced with utmost care to insure a substantial margin of safety. Threads are clean, deep, and snug. When properly installed with Killark sealing compound (SC Type) and Killark non-asbestos fiber (PF Type) for the dams, you can be sure your installation will provide more than adequate safety.



THE NEXT GENERATION OF VERTICAL SEAL FITTINGS





FITTINGS

EZ SERIES



Class I, Div. 1 & 2, Groups A, B, C, D
Class I, Zone 1, Groups IIC, IIB, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III
Type 3R

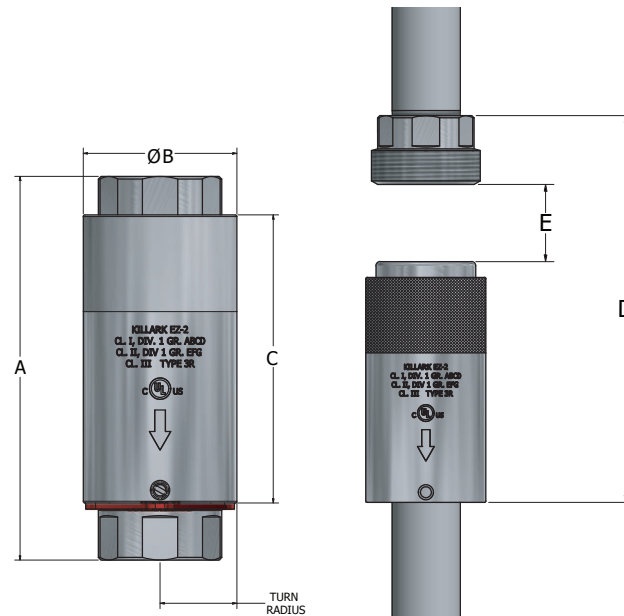
FEATURES-SPECIFICATIONS

Features

- Unique uniform design for simplified seal alignment
- Minimal turn radius for close spacing specification
- 360° unimpeded access to the conductors for visual inspection and separation
- Pre-installed patented disc brush barrier dam for nominal or no packing fiber required
- Retrofittable and easy replacement if needed

Materials

- EZ Seal Bodies
 - » Copper-free Aluminum or 12L14 zinc plated cold rolled steel
- Retaining rings
 - » Stainless steel
- Disc Brush dam
 - » Steel/nylon
- Position snap ring
 - » Plastic



EZ SEAL SERIES									
HUB SIZE	CATALOG NUMBER			DIMENSIONS					
	ALUMINUM	ZINC PLATED STEEL	316 STAINLESS	A	B	C	D	E	TURN RADIUS
1/2"	EZ 1	EZ 1S	EZ 1SS	4.45	1.60	3.15	5.45	1.06	0.80
3/4"	EZ 2	EZ 2S	EZ 2SS	4.44	1.60	3.15	5.76	1.15	0.90
1"	EZ 3	EZ 3S	EZ 3SS	5.08	1.96	3.60	6.24	1.15	0.98



SEALING COMPOUND	
CATALOG NUMBER	SIZE PACKAGE
KQS-050 ML	50 ml (1.7 oz)
KQS-250 ML	250 ml (8.45 oz)

*includes 4 static mixing nozzles

DISPENSING GUN	
CATALOG NUMBER	SIZE CARTRIDGE
KQS-050 GUN	50ml Cartridge
KQS-250 GUN	250ml Cartridge

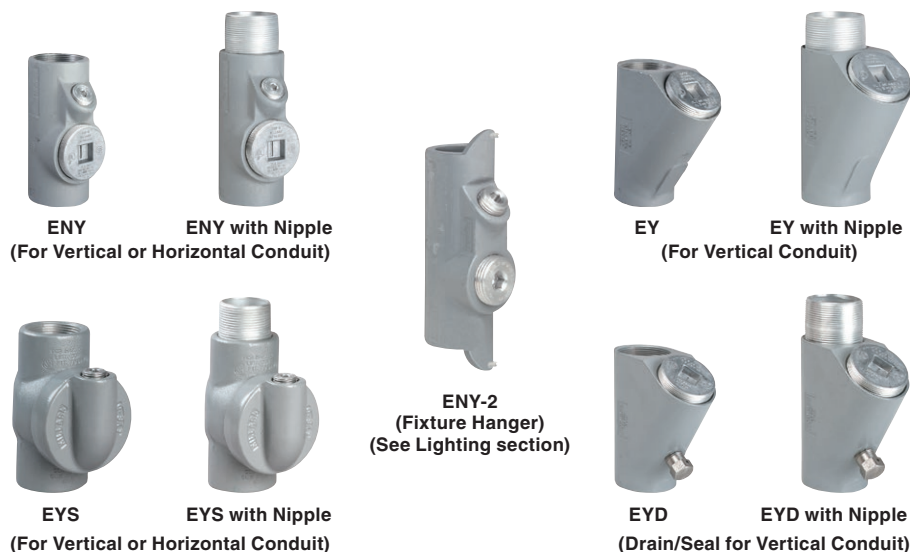
SEALING COMPOUND	
CATALOG NUMBER	SIZE PACKAGE
SC-4 OZ	4 oz.
SC-8 OZ	8 oz.
SC-1 LB	1 lb.
SC-5 LB	5 lbs.





FITTINGS EY SERIES

SEALING FITTINGS



UL LISTED E10514

CS Certified LR11716

FEATURES-SPECIFICATIONS

Features

EY Series

- Large opening for easy packing of fiber dam and pouring of compound
- Integral bushings in conduit hubs to protect conductor insulation from damage
- NPT tapped hubs to ensure ground continuity
- Design provides minimum turning radius
- 25% conductor fill
- EY-T style supplied with removeable close nipples

EYD Series

- Threaded for Rigid Conduit or IMC
- Tapered threads (NPT)
- Simple to install. Internal drainage path provides a visual means to ensure that the compound chamber is properly filled. No need to use hoses and wires
- Large cover openings for easy packing of fiber dam on ½" through 1" sizes

- Temporary plastic sleeve protects thread for drain/breather from contamination when pouring compound
- Unique design enables installation of drain/breather right after compound is poured – no waiting
- Provides continuous water drain path while allowing conduit run to breathe, in compliance with the NEC
- Includes Drain Breather Fitting KDB-375

ENY40/EYD40 series

- A 40% wire fill capacity
- Large openings with threaded closures to provide easy access to conduit hubs for making dams
- Integral bushing in conduit hubs to protect conductor insulation from damage
- NPT threaded hubs to ensure ground continuity
- Minimum turning radius

Materials

Copper-free Aluminum

(less than ¼% of 1%)

- Electrostatically applied powder coating

Duraloy Iron

- Tri-Coat Finish of electrozinc, chromate sealant, and electrostatically applied powder coating



SEALING FITTINGS



ENY-3
(For Vertical or Horizontal Conduit)



ENY-3-T with Nipple



EYS-3
(For Vertical or Horizontal Conduit)



EYS-3-T with Nipple

ENY-1, 2, 3, 4, 5 (KQS - SC) ENY-6 (SC ONLY)

Class I, Div. 1 & 2, Groups A, B, C, D

Class I, Zone 1, Groups IIC, IIB, IIA

Class II, Div. 1 & 2, Groups E, F, G

Class III

EYS-1, 2 (KQS-SC) EYS-3, 4, 5, 6, 7, 8 (SC)

Class I, Div. 1 & 2, Groups C, D

Class I, Zone 1, Groups IIB, IIA

Class II, Div. 1 & 2, Groups E, F, G

Class III

EYS-9, 0 (SC)

Class I, Div. 1 & 2, Groups C, D

Class I, Zone 1, Groups IIB, IIA

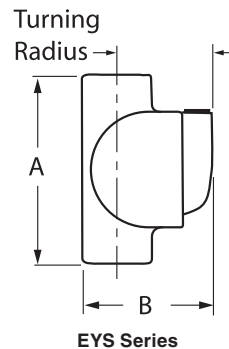
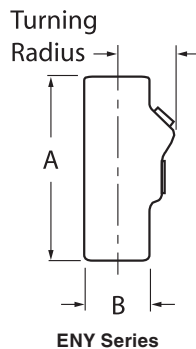
Class II, Div. 1 & 2, Groups E, F, G

Class III

ENY SEALING FITTINGS						ENY WITH NIPPLE	
HUB SIZE	CATALOG NUMBER		DIMENSIONS		TURNING RADIUS	CATALOG NUMBER	
	KILLARK ALUMINUM	DURALOY IRON	A	B		KILLARK ALUMINUM	DURALOY IRON
1/2"	ENY-1	ENY-1M	4-1/16" (103)	1-9/32" (33)	1-3/32"(30)	ENY-1-T	ENY-1TM
3/4"	ENY-2	ENY-2M	4-3/16" (106)	1-1/2" (38)	1-9/32"(33)	ENY-2-T	ENY-2TM
1"	ENY-3	ENY-3M	5" (127)	1-3/4" (45)	1-13/32"(36)	ENY-3-T	ENY-3TM
1-1/4"	ENY-4	ENY-4M	5-3/8" (137)	2-3/16" (56)	1-25/32"(45)	ENY-4-T	ENY-4TM
1-1/2"	ENY-5	ENY-5M	5-11/16" (144)	2-3/8" (60)	1-29/32"(48)	ENY-5-T	ENY-5TM
2"	ENY-6	ENY-6M	6-3/8" (162)	2-3/8" (60)	2-5/16"(59)	ENY-6-T	ENY-6TM
LARGE SIZES COMING SOON							

EYS SEALING FITTINGS						EYS WITH NIPPLE	
HUB SIZE	CATALOG NUMBER		DIMENSIONS		TURNING RADIUS	CATALOG NUMBER	
	KILLARK ALUMINUM	DURALOY IRON	A	B		KILLARK ALUMINUM	DURALOY IRON
1/2"	EYS-1	—	2-15/16"(75)	1-13/16"(46)	1-3/16"(30)	EYS-1-T	—
3/4"	EYS-2	—	4-1/16"(103)	2-1/16"(52)	1-9/32"(33)	EYS-2-T	—
1"	EYS-3	—	4-25/32"(121)	2-11/32"(60)	1-13/32"(36)	EYS-3-T	—
1-1/4"	EYS-4	—	5-3/8"(137)	3"(76)	1-25/32"(45)	EYS-4-T	—
1-1/2"	EYS-5	—	5-11/16"(144)	3-1/4"(83)	1-29/32"(48)	EYS-5-T	—
2"	EYS-6	—	6-3/8"(162)	3-15/16"(100)	2-5/16"(59)	EYS-6-T	—
2-1/2"	EYS-7	EYS-7M	7-5/8"(194)	4-1/2"(114)	4-1/8"(105)	EYS-7-T	EYS-7TM
3"	EYS-8	EYS-8M	7-5/8"(194)	4-1/2"(114)	4-3/8"(111)	EYS-8-T	EYS-8TM
3-1/2"	EYS-9	EYS-9M	7-1/8"(181)	5-3/16"(132)	4-3/4"(121)	EYS-9-T	EYS-9TM
4"	EYS-0	EYS-0M	7-1/8"(181)	5-3/16"(132)	4-3/4"(121)	EYS-0-T	EYS-0TM

DIMENSIONS





FITTINGS

EY/EYD SERIES

SEALING FITTING



EY-3



EY-3-T with Nipple
(For Vertical Conduit)



EYD-3

EYD-3-T with Nipple
(Drain/Seal for vertical conduit)



EY-50, 75, 100 EYD-50, 75, 100 (KQS-SC)

Class I, Div. 1 & 2, Groups A, B, C, D

Class I, Zone 1, Groups IIC, IIB, IIA

Class II, Div. 1 & 2, Groups E, F, G

Class III

EY-4, 5, 6, 7 EYD-4, 5, 6, 7 (SC)

Class I, Div. 1 & 2, Groups C, D

Class I, Zone 1, Groups IIB, IIA

Class II, Div. 1 & 2, Groups E, F, G

Class III

EY-9,0 EYD-9,0 (SC)

Class I, Div. 1 & 2, Group D

Class I, Zone 1, Groups IIB, IIA

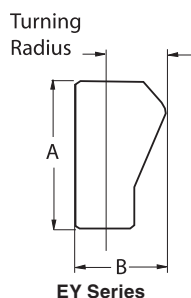
Class II, Div. 1 & 2, Groups E, F, G

Class III

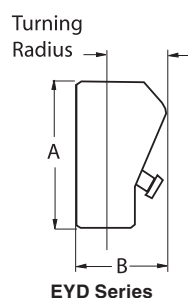
EY SEALING FITTINGS						EY WITH NIPPLE	
HUB SIZE	CATALOG NUMBER		DIMENSIONS		TURNING RADIUS	CATALOG NUMBER	
	KILLARK ALUMINUM	DURALOY IRON	A	B		KILLARK ALUMINUM	DURALOY IRON
1/2"	EY-50	EY-50M	3-5/16"(84)	1-1/8"(29)	1-11/16"(37)	EY-50-T	EY-50TM
3/4"	EY-75	EY-75M	3-11/16"(94)	1-5/16"(33)	2"(51)	EY-75-T	EY-75TM
1"	EY-100	EY-100M	4-3/8"(111)	1-5/8"(41)	2-7/16"(62)	EY-100-T	EY-100TM
1-1/4"	EY-4	EY-4M	5-1/8"(130)	3-7/8"(98)	2-7/8"(73)	EY-4-T	EY-4TM
1-1/2"	EY-5	EY-5M	5-1/8"(130)	4-5/8"(117)	3-7/16"(87)	EY-5-T	EY-5TM
2"	EY-6	EY-6M	5-1/8"(230)	5-11/16"(144)	4-1/4"(108)	EY-6-T	EY-6TM
2-1/2"	EY-7	EY-7M	7"(178)	6-5/16"(160)	4-5/8"(117)	EY-7-T	EY-7TM
3"	EY-8	EY-8M	7"(178)	6-5/16"(160)	4-5/8"(117)	EY-8-T	EY-8TM
3-1/2"	EY-9	EY-9M	8-3/4"(222)	7-1/8"(181)	5-3/8"(138)	EY-9-T	EY-9TM
4"	EY-0	EY-0M	8-3/4"(222)	7-1/8"(181)	5-3/8"(138)	EY-0-T	EY-0TM

EYD SEALING FITTINGS						EYD WITH NIPPLE	
HUB SIZE	CATALOG NUMBER		DIMENSIONS		TURNING RADIUS	CATALOG NUMBER	
	KILLARK ALUMINUM	DURALOY IRON	A	B		KILLARK ALUMINUM	DURALOY IRON
1/2"	EYD-50	EYD-50M	3-1/2"(89)	1-1/8"(29)	1-5/8"(41)	EYD-50T	EYD-50TM
3/4"	EYD-75	EYD-75M	3-3/4"(95)	1-3/8"(35)	1-3/4"(45)	EYD-75T	EYD-75TM
1"	EYD-100	EYD-100M	4-3/8"(111)	1-3/4"(45)	2-1/8"(54)	EYD-100T	EYD-100TM
1-1/4"	EYD-4	EYD-4M	5-1/8"(130)	3-7/8"(98)	2-7/8"(73)	EYD-4-T	EYD-4TM
1-1/2"	EYD-5	EYD-5M	5-1/8"(130)	4-5/8"(117)	3-7/16"(87)	EYD-5-T	EYD-5TM
2"	EYD-6	EYD-6M	5-1/8"(130)	5-11/16"(144)	4-1/4"(108)	EYD-6-T	EYD-6TM
2-1/2"	EYD-7	EYD-7M	7"(178)	6-5/16"(160)	4-5/8"(117)	EYD-7-T	EYD-7TM
3"	EYD-8	EYD-8M	7"(178)	6-5/16"(160)	4-5/8"(117)	EYD-8-T	EYD-8TM
3-1/2"	EYD-9	EYD-9M	8-3/4"(122)	7-1/8"(181)	5-3/8"(137)	EYD-9-T	EYD-9TM
4"	EYD-0	EYD-0M	8-3/4"(122)	7-1/8"(181)	5-3/8"(137)	EYD-0-T	EYD-0TM

DIMENSIONS



EY Series



EYD Series

FITTINGS ENY40/EYD40 SERIES



40% FILL SEALING FITTINGS



ENY



EYD

EYD, ENY40-1, 2, 3, 4, 5

Class I, Div. 1 & 2, Groups B, C, D
Class I, Zone 1, Groups IIB+H2, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III

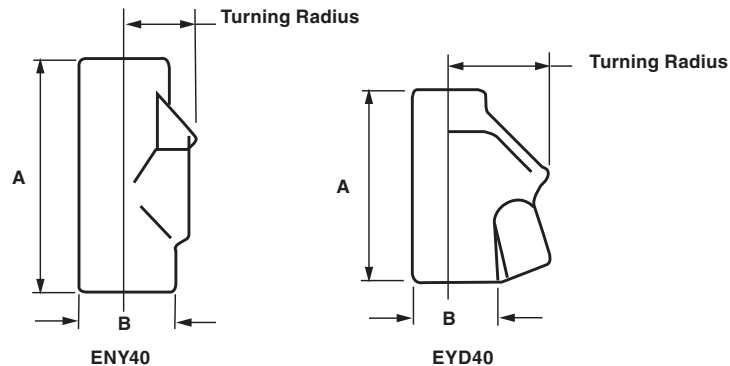
ENY40 40% VERTICAL AND/OR HORIZONTAL CONDUIT SEALING FITTINGS

HUB SIZE	CATALOG NUMBER		DIMENSIONS		TURNING RADIUS*	REQUIRED SEALING COMPOUND & PACKING FIBER OZ.	PER HUB (PF)
	KILLARK ALUMINUM	DURALOY IRON	A	B			
1/2"	ENY40-1	ENY40-1M	4-1/16"(103)	2-1/16"(52)	1-9/32"(33)	2	0.06
3/4"	ENY40-2	ENY40-2M	4-25/32"(121)	2-11/32"(60)	1-13/32"(36)	4	0.12
1"	ENY40-3	ENY40-3M	5-3/8"(137)	3"(76)	1-25/32"(45)	7	0.26
1-1/4"	ENY40-4	ENY40-4M	5-11/16"(144)	3-1/4"(83)	1-29/32"(48)	13	1.00
1-1/2"	ENY40-5	ENY40-5M	6-3/8"(162)	3-15/16"(100)	2-5/16"(59)	22	2.00
2"	ENY40-6	ENY40-6M	7-5/8"(194)	4-1/2"(114)	4-1/8"(105)	36	3.00
2-1/2"	ENY40-7	ENY40-7M	7-5/8"(194)	4-1/2"(114)	4-3/8"(111)	61	3.56
3"	ENY40-8	ENY40-8M	7-1/8"(181)	5-3/16"(132)	4-3/4"(121)	89	6.00
3-1/2"	ENY40-9	ENY40-9M	7-1/8"(181)	5-3/16"(132)	4-3/4"(121)	114	7.00
4"	ENY40-0	ENY40-0M	11-1/16"(281)	6-1/2"(165)	4-1/4"(108)	202	9.60

EYD40 40% VERTICAL CONDUIT DRAIN SEALING FITTINGS

HUB SIZE	CATALOG NUMBER		DIMENSIONS		TURNING RADIUS*	REQUIRED SEALING COMPOUND & PACKING FIBER OZ.	PER HUB (PF)
	KILLARK ALUMINUM	DURALOY IRON	A	B			
1/2"	EYD40-1	EYD40-1M	3-3/4"(95)	1-3/8"(35)	1-3/4"(45)	2	0.03
3/4"	EYD40-2	EYD40-2M	4-3/8"(111)	1-3/4"(45)	2-1/8"(54)	4	0.06
1"	EYD40-3	EYD40-3M	5-1/8"(130)	3-7/8"(98)	2-7/8"(73)	7	0.13
1-1/4"	EYD40-4	EYD40-4M	5-1/8"(130)	4-5/8"(117)	3-7/16"(87)	13	0.50
1-1/2"	EYD40-5	EYD40-5M	5-1/8"(130)	5-11/16"(144)	4-1/4"(108)	22	1.00
2"	EYD40-6	EYD40-6M	7"(178)	6-5/16"(160)	4-5/8"(117)	36	1.50
2-1/2"	EYD40-7	EYD40-7M	7"(178)	6-5/16"(160)	4-5/8"(117)	61	1.75
3"	EYD40-8	EYD40-8M	8-3/4"(122)	7-1/8"(181)	5-3/8"(137)	89	3.00
3-1/2"	EYD40-9	EYD40-9M	8-3/4"(122)	7-1/8"(181)	5-3/8"(137)	114	3.50
4"	EYD40-0	EYD40-0M	11-1/16"(281)	6-1/2"(165)	4-1/4"(108)	202	4.50

* Turning radius with cover plug removed.





FITTINGS SC/PF SERIES

SEALING MATERIALS



Sealing Compound



Packing Fiber



SC11W

FEATURES-SPECIFICATIONS

Sealing Materials

SC Series Sealing compound is a cement used extensively for sealing conduit to prevent the spread of explosive gases. It is non-shrinking and a secure seal is formed. SC Series resists acids, water, oil, etc. It is UL Listed for use with Killark ENY, EY, and EYS Series. Also CSA certified for use with any CSA certified sealing fitting.

Packing Fiber

Killark's Packing Fiber is made from an environmentally safe, non-asbestos material. It is easy to use and forms a positive dam to hold compound (Killark SC Type) in ENY, EY, and EYS Series fittings.

Features of SC with Water

- Exact amount of compound and water are packaged together into a two-compartment plastic pouch.
- The precise amount of compound and water are available for mixing. No mixing or measure implements are required.
- Squeezing the inner water container forces the water into the compartment containing the sealing compound. Complete mixing takes place inside the plastic pouch.
- The mixed sealing compound can be poured directly into the sealing fitting. A tubular straw is provided for those difficult seals to reach.
- The package label indicates the size and quantity of sealing fittings each pouch will properly fill.



SEALING MATERIALS

OUNCES REQUIRED PER FITTING				
SEALING COMPOUND				PACKING FIBER
HUB SIZE	ENY ^①	EYS ^①	EY/EYD	
1/2"	1.5 oz.	3.0 oz.	1.0 oz.	1/16 oz.
3/4"	2.0 oz.	3.0 oz.	2.0 oz.	1/8 oz.
1"	3.0 oz.	8.0 oz.	4.5 oz.	1/4 oz.
1-1/4"	6.5 oz.	8.5 oz.	7.5 oz.	1/2 oz.
1 1/2"	8.5 oz.	17.5 oz.	12.0 oz.	1 oz.
2"	15.0 oz.	27.0 oz.	24.0 oz.	2 oz.
2-1/2"	—	42.0 oz.	44.0 oz.	3 oz.
3"	—	47.0 oz.	44.0 oz.	4 oz.
3-1/2"	—	56.0 oz.	75.0 oz.	6 oz.
4"	—	56.0 oz.	75.0 oz.	9 oz.

① ENY/EYS suitable for both horizontal or vertical applications.

SEALING COMPOUND	
CATALOG NUMBER	SIZE PACKAGE
SC-4 OZ	4 oz.
SC-8 OZ	8 oz.
SC-1 LB	1 lb.
SC-5 LB	5 lbs.

PACKING FIBER	
CATALOG NUMBER	SIZE PACKAGE
PF-2	2 oz.
PF-4	4 oz.
PF-16	1 lb.

SEALING COMPOUND						
CATALOG NUMBER	HUB SIZE	WILL FILL THE FOLLOWING SEALS:			CU. IN. FILL PER POUCH	NO. OF POUCHES PER CARTON
		ENY	EYS	EY/EYD		
SC5W ^②	1/2"	3	1	5	5	5
	3/4"	2	1	2		
	1"	1	—	1		
SC11W ^②	1/2"	7	3	11	11	5
	3/4"	5	3	5		
	1"	3	1	2		

② Appropriate amount of Packing Fiber is included in carton. Additional Packing Fiber may be purchased separately.



FITTINGS

CELOX® KQS SERIES

CELOX®, a new
solution to **pouring**
seal fittings





CELOX®

Sealing Compound

KQS-250 ML



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



E489370



LR11716



KQS-050

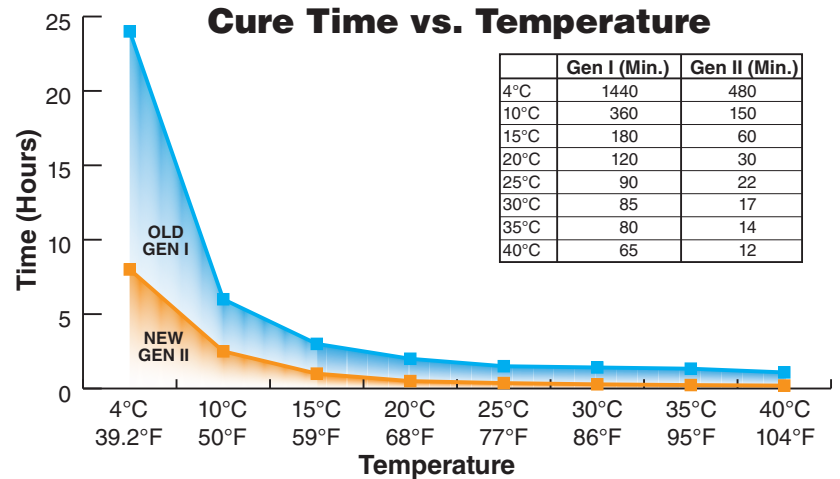
FEATURES-SPECIFICATIONS

Features

CELOX® KQS Series is used exclusively for sealing conduit to prevent the spread of explosive gases and vapors

- Two-part epoxy resin self mixes through a static, replaceable nozzle.
- New Enhanced Formula now up to 75% faster
- Available in two sizes 50ml and 250ml
- Cures faster in colder temperatures
- 250ml fills over sixteen ½" seals (may vary depending on pour and conductor fill)
- Each cartridge comes with 4 static nozzles

Cure Time vs. Temperature





FITTINGS

CELOX® KQS SERIES

SEALING COMPOUND	
CATALOG NUMBER	SIZE PACKAGE
KQS-050 ML	50 ml (1.7 oz.)
KQS-250 ML	250 ml (8.45 oz.)

**includes 4 static mixing nozzles*

DISPENSING GUN	
CATALOG NUMBER	SIZE CARTRIDGE
KQS-050 GUN	50 ml Cartridge
KQS-250 GUN	250 ml Cartridge

REPLACEMENT NOZZLES	
CATALOG NUMBER	SIZE NOZZLE
KQS-050 NOZ	50 ml Cartridge Nozzle (5 per)
KQS-250 NOZ	250 ml Cartridge Nozzle (5 per)

Saves Time



There is no mixing, measuring, or stirring required. Simple to set up with time, labor, and money savings.

Saves Money



Eliminates waste as each tube is REUSABLE for up to one year – saving money and the environment!

Easy Install



After the seal fitting is prepped, CELOX® takes seconds to install. Unlike traditional methods, no messy cement or water needed.

THREAD LUBRICANTS



LUBG-6

LUBT-2

FEATURES-SPECIFICATIONS

Features

- LUBG is a general-purpose lubricant to be used in temperatures ranging from 0° to 125°F and comes in a can with brush lid.
- LUBT-2 is a high-quality lubricant to be used in temperatures ranging from -40° to +500°F. It is recommended to be used on hazardous location lighting fixtures.
- Never hardens, contain evaporating solvents and never corrodes

THREAD LUBRICANTS		
CATALOG NUMBER	CONTAINER PACKAGE	RATING
LUBG-6	6 oz.	General Purpose
LUBT-2	2 oz	High Temperature

GALLING



vs.

NO GALLING

