THERMAL INSTRUMENT Co.

217 Sterner Mill Road, Trevose, PA 19053
Telephone No. (215) 355-8400
Fax No. (215) 355-1789
Email: office@thermalinstrument.com

INSTALLATION, OPERATION

INSTRUCTIONS

FOR

FLOW SWITCHES

62-9FS & 600-9 FS

220VAC
110VAC
24 VDC
Factory Set

Effective Date
5/14/2008

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62-9FS & 600-9 FS FEATURES

- True mass flow for gases and liquids
- All welded 316SS body standard
- Special materials available for corrosion or abrasion resistance
- Unobstructed flow path
- Pipe sizes and fittings to suit applications
- -250 to 1100F service
- -14.7 to 60,000PSIG
- Automatic pressure and temperature compensation
- Protected precision RTD sensors
- Explosion-proof construction
- Single alarm levels = 2 flow point alarms (temp is optional within two alarm system)
- Fail safe design
- Calibration chart provided for each meter
- Temperature alarm optional
- Form C (SPDT) 5 amp relays
- Field change for trip high/trip low
- Field change for input power 115/230 VAC 15 Watts
- 24 VDC operation available

Effective Date
5/14/2008

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INSTALLATION MODEL 600-9FS AND 62-9FS FLOW SWITCH

FIGURE #1& #2 PROVIDE OUTLINE DRAWINGS OF THE FLOW SWITCH, SHOWING FLOW CONNECTIONS AND MOUNTING DIMENSIONS.

ALL FLOW WETTED PARTS ARE 316 STAINLESS STEEL.

THE FLOW SWITCH CAN BE MOUNTED HORIZONTALLY OR VERTICALLY, HOWEVER, WHEN MOUNTED VERTICALLY FLOW DIRECTION MUST BE UPWARDS. THE FLOW SHOULD ENTER AT THE PORT MARKED 'IN' AND EXIT
AT THE PORT MARKED "OUT".

THE METER SHOULD BE INSTALLED IN A STRAIGHT LINE. THIS LINE SHOULD PREFERABLY BE THE SAME DIAMETER AS THE METER TUBE OR PIPE. THIS STRAIGHT LINE SHOULD HAVE A MINIMUM LENGTH OF TEN (10) DIAMETERS AHEAD OF THE METER. LIKEWISE, A STRAIGHT LENGTH OF THE PIPE OR TUBE AFTER THE METER SHOULD BE AT LEAST A LENGTH OF FIVE (5) PIPE DIAMETERS.

WHERE PHYSICAL CONDITIONS PREVENT THIS, INFORM US IN ADVANCE AND WE WILL CALIBRATE THIS METER UNDER ACTURAL OPERATING CONDITIONS.

FIGURE #3 & #4 SHOWS THE OVERALL EXTERNAL WIRING CONNECTIONS

POWER WILL BE LABELED ACCORDINGLY

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OPERATION – MODEL 600-9FS AND 62-9FS

WITH ALL CONNECTIONS HAVING BEEN COMPLETED AND TESTED, APPLY POWER AND ALLOW A TEN (10) MINUTE WARM UP PERIOD.

CAUTION: FLOW AND TRANSDUCER MUST BE WIHTIN 50°C OF OPERATION TEMPERATURE BEFORE POWER IS APPLIED. SENSORS MAY BE DAMAGED IF TRANSDUCER TEMPERATUE IS LOWER THAN THIS LIMIT OR CALIBRATION WILL NOT BE ACCURATE.

TRIP POINTS ARE FACTORY SET. HOWEVER, THE CALIBRATION CURVE PROVIDED CORRELATS FLOW VERSUS FLOW SWITCH VOLTAGE THAT CAN BE USED TO ADJUST TRIP POINTS IN THE FIELD.

SEE Figure #3 and #4 FOR ADJUSTMENT PROCEDURE.

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Figure #1

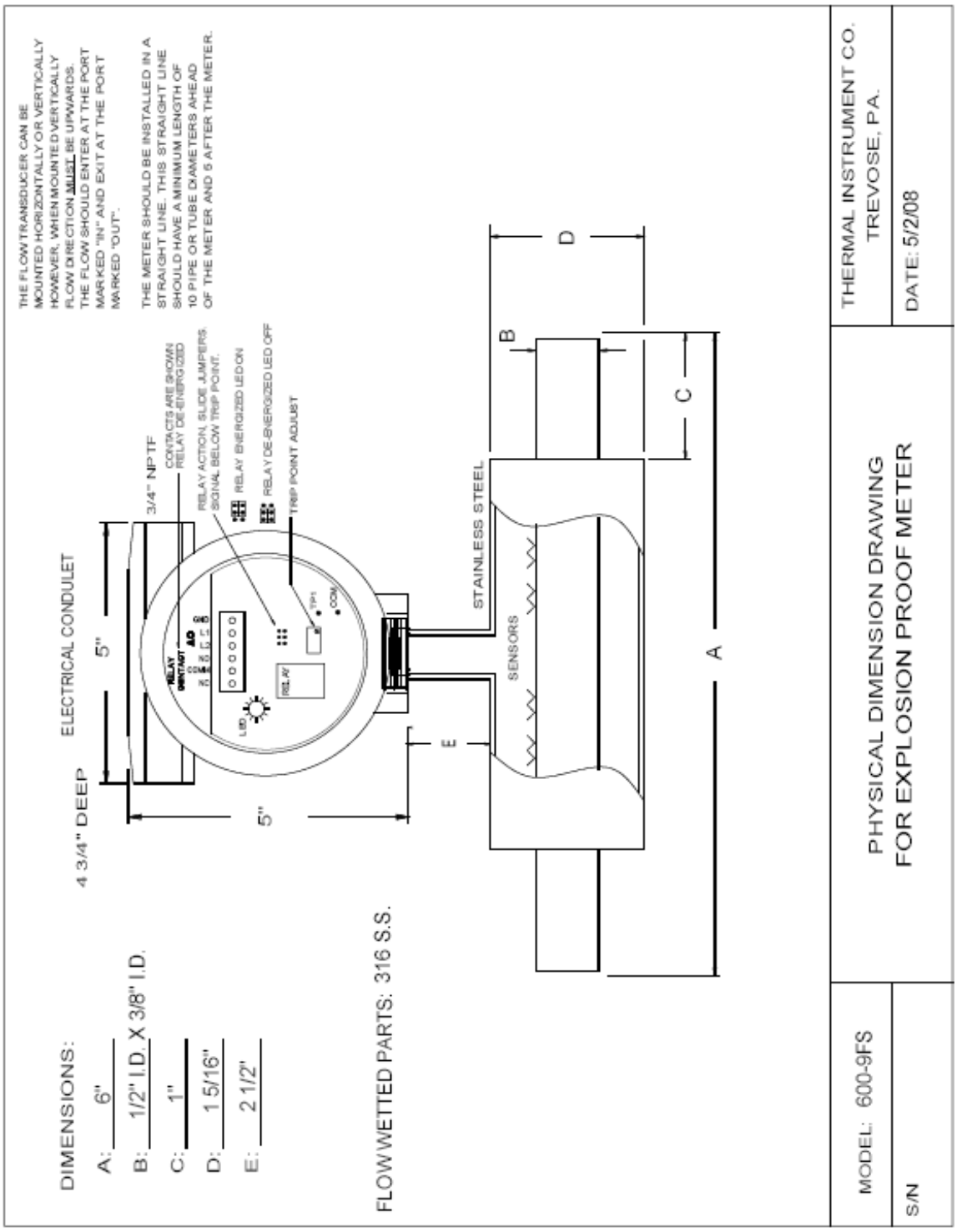

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Figure #2

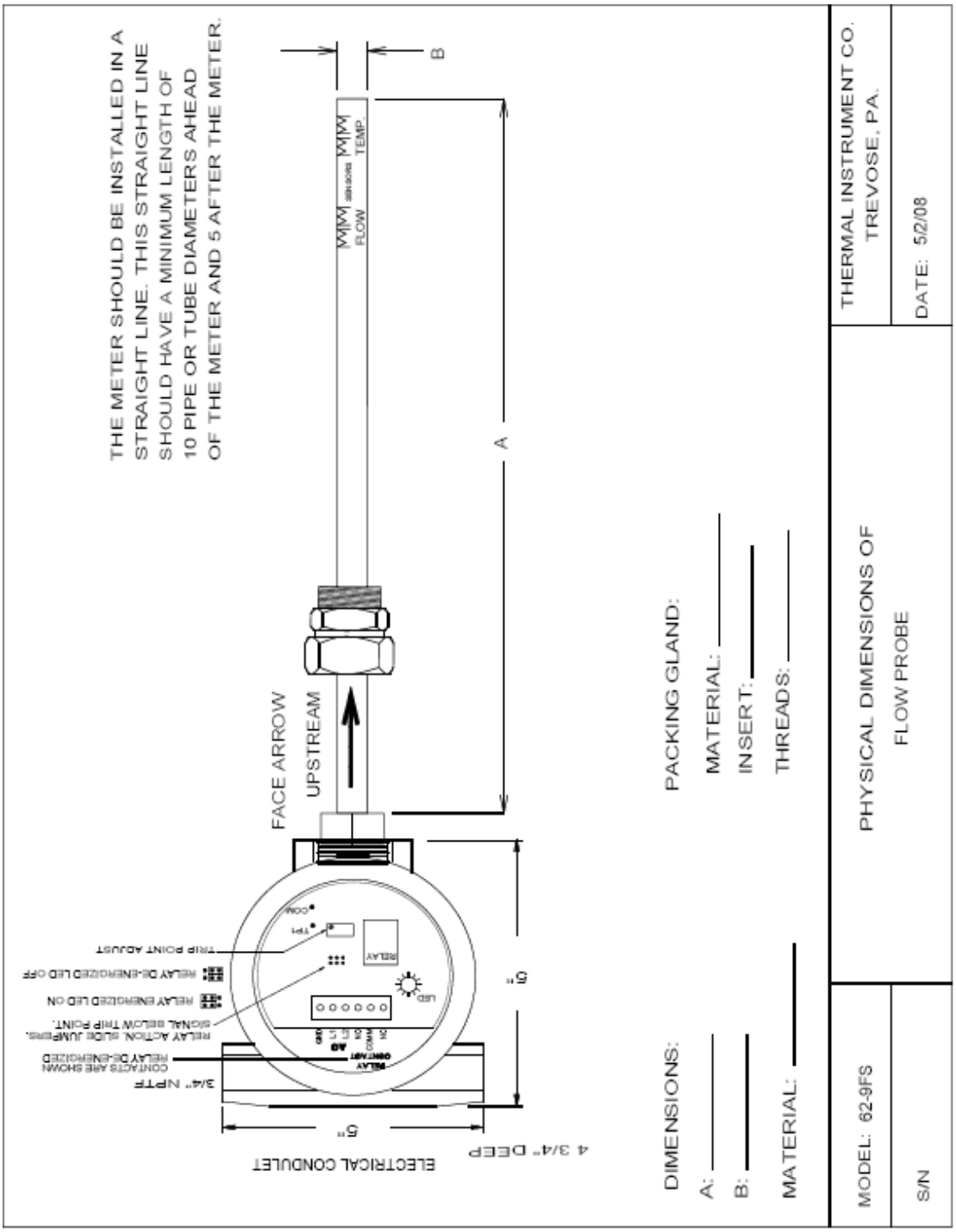

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Figure #3

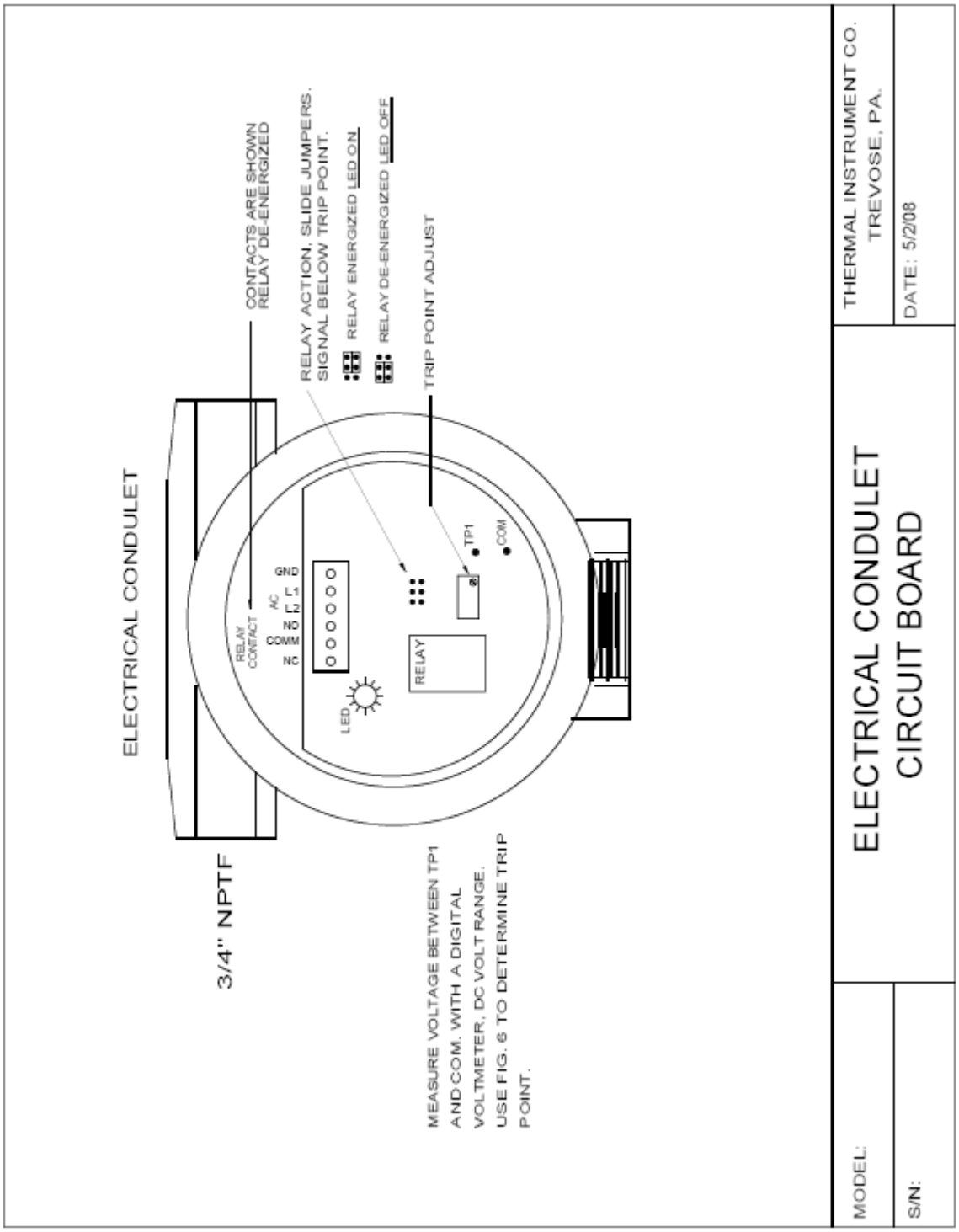

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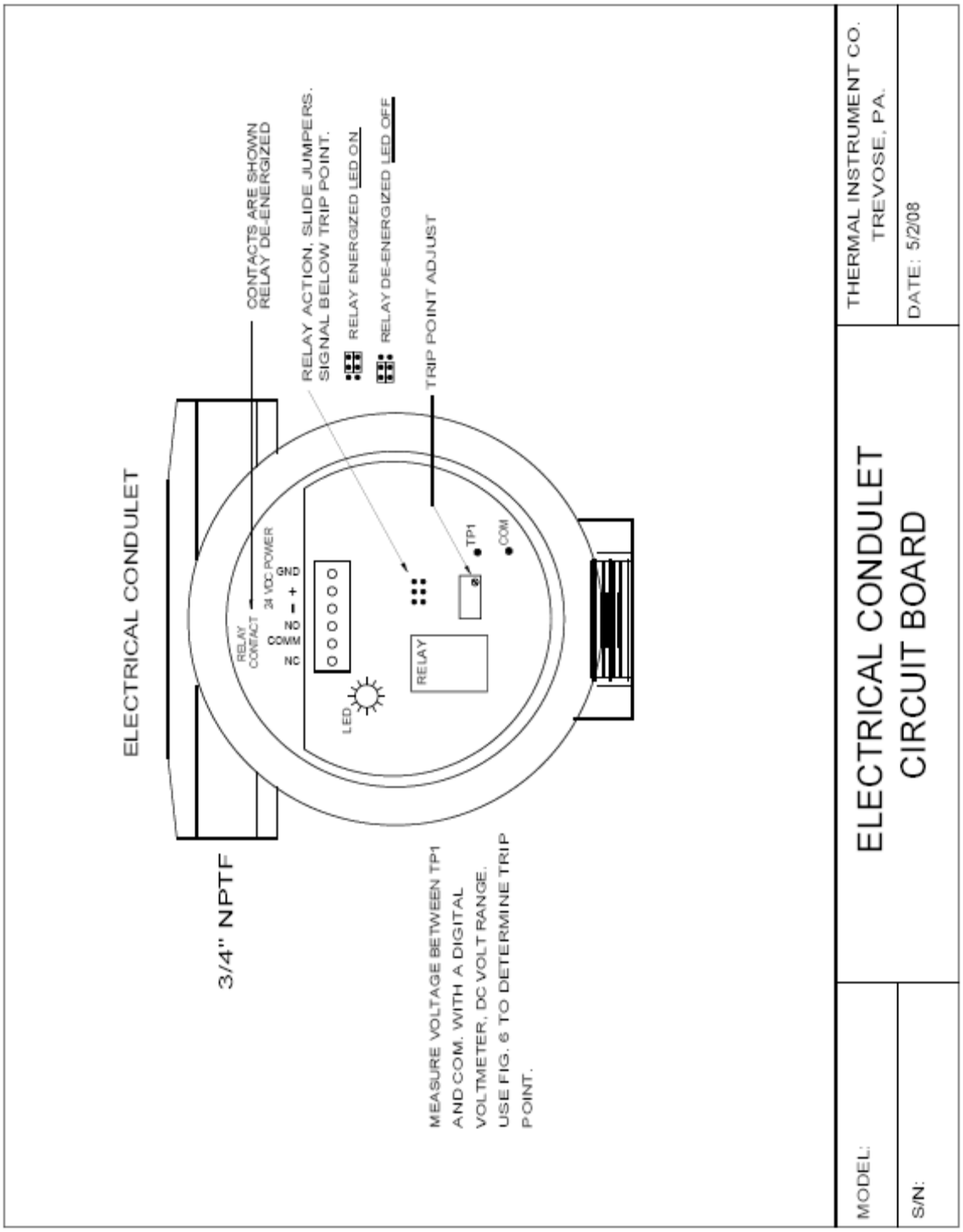
Figure #4



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GENERAL PRECAUTIONS TO BE OBSERVED IN INSTALLING FLOWMETER WIRING

When the Thermal Flowmeter or Probe is supplied with an explosion-proof condulet, it must be installed with approved wiring techniques. This calls for seals where the external wiring enters these condulets.

In the case where we have a large condulet on a Probe with multiple connections, we will have a fitting with as large as a 1 2" pipe connection. If the contractor is reducing this to 2" fittings, he must be sure that these reducers are sealed with a suitable electrical or Teflon tape. In like manner, the connectors he
uses must be of the sealed conduit type.

Water entering the system from either the power wiring or the interconnecting cable system is very serious and can do damage to the metering system.

The explosion-proof type condulets are designed for that purpose only; they are not waterproof and if the system is submerged, water will enter. In applications where there is undue exposure, it may be well to go to auxiliary covering or sealing mechanisms. This may merely mean a plastic coating, a plastic bag, or in extreme cases a housing.

The same rules apply also where the external wiring enters the electronic housings. These can be either the explosion-proof type, or the NEMA 4 type. In either case adequate attention must be paid to sealing the electrical incoming lines. The cover on the NEMA 4 case is gasketed in a very adequate manner. However, in many cases the atmospheric and liquid leaks are at the point of entry of the external wiring or through the conduit from the external wiring itself.

In cases where the NEMA 4 units are used in very hazardous atmospheres or corrosive, it is advisable to purge the system to prevent corrosive attack on the electronics.

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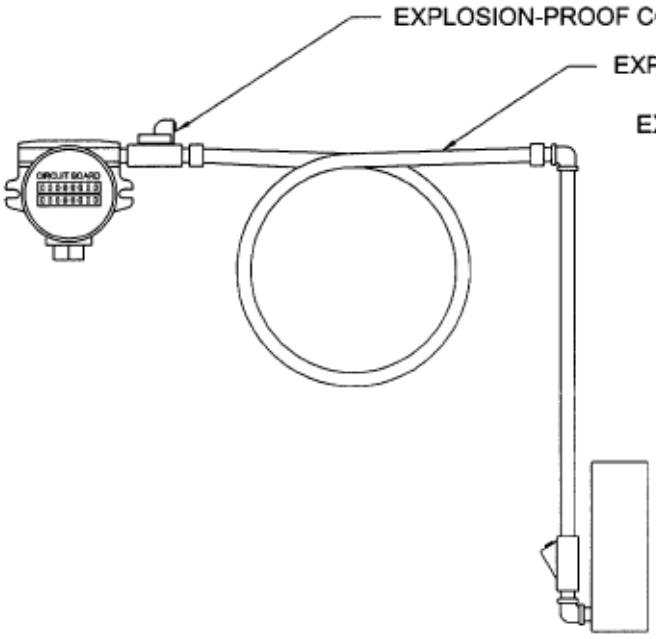
GENERAL PRECAUTIONS TO BE OBSERVED IN INSTALLING FLOWMETER WIRING (continued)

The sketch below shows how commercial seals are installed.



NOTES:

1. Explosion-proof conduit seals are required in all conduit runs in Class 1, Division 1 areas per National Electric Code Article 500.
2. Easier removal of the Flow Element is possible when a sufficient length of flexible explosion-proof conduit is installed.

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ENY
(For Vertical or Horizontal Conduit)

ENY with Nipple
(For Vertical or Horizontal Conduit)

EY
(For Vertical Conduit)

EY with Nipple
(For Vertical Conduit)

ENY-2
(Fixture Hanger)
(See Page L146)

EYS
(For Vertical or Horizontal Conduit)

EYS with Nipple
(For Vertical or Horizontal Conduit)

EYD
(Drain/Seal for Vertical Conduit)

EYD with Nipple
(Drain/Seal for Vertical Conduit)

Class I, Div. 1 & 2, Groups A①,B①,C,D
Class I, Zone 1, Groups IIC②, IIB, IIA
Class II, Div. 1 & 2, Groups E,F,G
Class III

FEATURES-SPECIFICATIONS

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.

Considerations 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.

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.

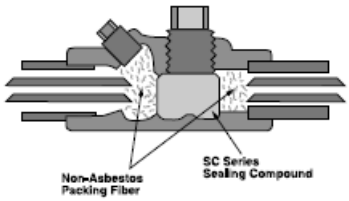
For more complete data or special applications, consult the code or your local inspector.

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.).

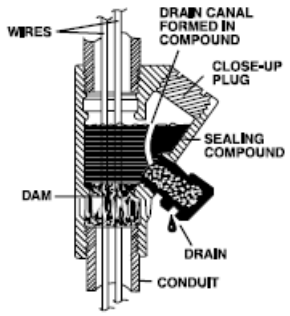
In the complete seal, the minimum thickness of the sealing compound shall not be less than the trade size of the conduit, and in no case less than 5/8 inch.

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 installation data table on page F47 for specific amounts required.

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.



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



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.

①ENY 1, 2, & 3 Series is suitable for Class I, Zone 1, Groups A, B, C, & D; EYS, EY, & EYD Series are suitable for Class 1, Groups C & D.
②ENY 1, 2, & 3 Series is suitable for Class I, Zone 1, Groups IIC, IIB, IIA; EYS, EY/EYD Series and suitable for Class I, Zone 1 Groups IIB, IIC.

HUBBELL
KILLARK

Effective Date
5/14/2008

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ENY
(For Vertical or Horizontal Conduit)

ENY with Nipple
(For Vertical or Horizontal Conduit)

EYS
(For Vertical or Horizontal Conduit)

EYS with Nipple
(For Vertical or Horizontal Conduit)

ENY-1, 2, 3
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

ENY-4, 5 & 6 & EYS Series
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

Listed File No. E10514
Certified File No. LR11716

FEATURES-SPECIFICATIONS

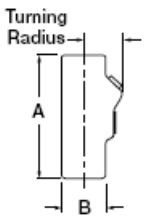
Material/Finish

Copper-free Aluminum
(less than 4/10 of 1%)
- Electrostatically applied powder coating

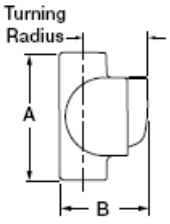
Duraloy Iron
- Tri-Coat Finish of electrozinc, chromate sealant, and electrostatically applied powder coating

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-1①	ENY-1M①	3-15/16"(100)	1-13/16"(46)	1-3/16"(30)	ENY-1-T①	ENY-1-TM①
3/4"	ENY-2①	ENY-2M①	4-1/16"(103)	2-1/16"(52)	1-9/32"(33)	ENY-2-T①	ENY-2-TM①
1"	ENY-3①	ENY-3M①	4-25/32"(121)	2-11/32"(60)	1-13/32"(36)	ENY-3-T①	ENY-3-TM①
1-1/4"	ENY-4	ENY-4M	5-3/8"(137)	3"(76)	1-25/32"(45)	ENY-4-T	ENY-4-TM
1-1/2"	ENY-5	ENY-5M	5-11/16"(144)	3-1/4"(83)	1-29/32"(48)	ENY-5-T	ENY-5-TM
2"	ENY-6	ENY-6M	6-3/8"(162)	3-15/16"(100)	2-5/16"(59)	ENY-6-T	ENY-6-TM

Dimensions



ENY Series



EYS Series

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-1①	—	3-15/16"(100)	1-13/16"(46)	1-3/16"(30)	EYS-1-T①	EYS-1-TM①
3/4"	EYS-2①	—	4-1/16"(103)	2-1/16"(52)	1-9/32"(33)	EYS-2-T①	EYS-2-TM①
1"	EYS-3①	—	4-25/32"(121)	2-11/32"(60)	1-13/32"(36)	EYS-3-T①	EYS-3-TM①
1-1/4"	EYS-4	—	5-3/8"(137)	3"(76)	1-25/32"(45)	EYS-4-T	EYS-4-TM
1-1/2"	EYS-5	—	5-11/16"(144)	3-1/4"(83)	1-29/32"(48)	EYS-5-T	EYS-5-TM
2"	EYS-6	—	6-3/8"(162)	3-15/16"(100)	2-5/16"(59)	EYS-6-T	EYS-6-TM
2-1/2"	EYS-7	EYS-7M	7-5/8"(194)	4-1/2"(114)	4-1/8"(105)	EYS-7-T	EYS-7-TM
3"	EYS-8	EYS-8M	7-5/8"(194)	4-1/2"(114)	4-3/8"(111)	EYS-8-T	EYS-8-TM
3-1/2"	EYS-9③	EYS-9M②	7-1/8"(181)	5-3/16"(132)	4-3/4"(121)	EYS-9-T②	EYS-9-TM②
4"	EYS-0③	EYS-0M②	7-1/8"(181)	5-3/16"(132)	4-3/4"(121)	EYS-0-T②	EYS-0-TM②

① ENY 1, 2, & 3 Series is suitable for Class I, Groups A, B, C, & D. EYS, EY, & EYD Series are suitable for Class 1, Groups C & D.
② CSA Certified for Class I, Group D only.

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EY (For Vertical Conduit) EY with Nipple

EYD (Drain/Seal for vertical conduit) EYD with Nipple

EY & EYD Series
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

Listed File No. E10514
Certified File No. LR11716

FEATURES-SPECIFICATIONS

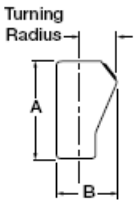
Material/Finish

Copper-free Aluminum
(less than 4/10 of 1%)
- Electrostatically applied powder coating

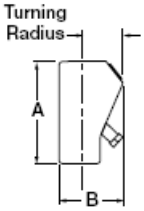
Duraloy Iron
- Tri-Coat Finish of electrozinc, chromate sealant, and electrostatically applied powder coating

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-1	EY-1M	3-1/16"(78)	2-1/8"(54)	2-1/4"(57)	EY-1-T	EY-1-TM
3/4"	EY-2	EY-2M	3-1/16"(78)	2-11/16"(68)	1-15/16"(49)	EY-2-T	EY-2-TM
1"	EY-3	EY-3M	4-9/32"(109)	3-1/8"(79)	2-1/4"(57)	EY-3-T	EY-3-TM
1-1/4"	EY-4	EY-4M	5-1/8"(130)	3-7/8"(98)	2-7/8"(73)	EY-4-T	EY-4-TM
1-1/2"	EY-5	EY-5M	5-1/8"(130)	4-5/8"(117)	3-7/16"(87)	EY-5-T	EY-5-TM
2"	EY-6	EY-6M	5-1/8"(230)	5-11/16"(144)	4-1/4"(108)	EY-6-T	EY-6-TM
2-1/2"	EY-7	EY-7M	7"(178)	6-5/16"(160)	4-5/8"(117)	EY-7-T	EY-7-TM
3"	EY-8	EY-8M	7"(178)	6-5/16"(160)	4-5/8"(117)	EY-8-T	EY-8-TM
3-1/2"	EY-9①	EY-9M①	8-3/4"(222)	7-1/8"(181)	5-3/8"(138)	EY-9-T①	EY-9-TM①
4"	EY-0①	EY-0M①	8-3/4"(222)	7-1/8"(181)	5-3/8"(138)	EY-0-T①	EY-0-TM①

Dimensions



EY Series



EYD Series

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-1	EYD-1M	4-9/32"(109)	3-1/8"(79)	2-1/4"(57)	EYD-1-T	EYD-1-TM
3/4"	EYD-2	EYD-2M	4-9/32"(109)	3-1/8"(79)	2-1/4"(57)	EYD-2-T	EYD-2-TM
1"	EYD-3	EYD-3M	4-9/32"(109)	3-1/8"(79)	2-1/4"(57)	EYD-3-T	EYD-3-TM
1-1/4"	EYD-4	EYD-4M	5-1/8"(130)	3-7/8"(98)	2-7/8"(73)	EYD-4-T	EYD-4-TM
1-1/2"	EYD-5	EYD-5M	5-1/8"(130)	4-5/8"(117)	3-7/16"(87)	EYD-5-T	EYD-5-TM
2"	EYD-6	EYD-6M	5-1/8"(130)	5-11/16"(144)	4-1/4"(108)	EYD-6-T	EYD-6-TM
2-1/2"	EYD-7	EYD-7M	7"(178)	6-5/16"(160)	4-5/8"(117)	EYD-7-T	EYD-7-TM
3"	EYD-8	EYD-8M	7"(178)	6-5/16"(160)	4-5/8"(117)	EYD-8-T	EYD-8-TM
3-1/2"	EYD-9①	EYD-9M	8-3/4"(122)	7-1/8"(181)	5-3/8"(137)	EYD-9-T①	EYD-9-TM①
4"	EYD-0①	EYD-0M	8-3/4"(122)	7-1/8"(181)	5-3/8"(137)	EYD-0-T①	EYD-0-TM①

① *CSA Certified for Class I, Group D only.*

KILLARK

Effective Date
5/14/2008

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Sealing Compound

Packing Fiber

Thread Lubricants

FEATURES-SPECIFICATIONS

Series SC/PF/LUBG
Sealing Materials

Sealing Compound

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.

Thread Lubricants

Two special blends of lubricants have been developed by Killark for use with threaded joints. These lubricants are to be used to prevent galling of pipe threads when threaded into a coupling, junction box, etc. They insure a quick release of undamaged male and female threads when parts are disassembled.

LUBG is a general purpose lubricant to be used in temperatures ranging from 0° to 125°F.

LUBT 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.

OUNCES REQUIRED PER FITTING				
	SEALING COMPOUND			PACKING FIBER
HUB SIZE	ENY①	EYS①	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.

THREAD LUBRICANTS	
CATALOG NUMBER	CONTAINER PACKAGE
LUBT-2	2 oz.
LUBG-6	6 oz.

KILLARK

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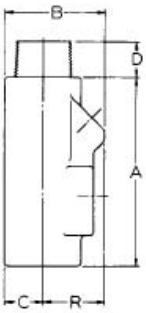
EXPLOSIONPROOF AND DUST-TIGHT SEALING FITTINGS CLASS I, GROUPS B*, C & D; CLASS II, GROUPS E, F & G; NEMA 7 & NEMA 9

XYB-XYBM



Sealing Fittings are required in Hazardous Locations and are used to isolate arc-producing devices in conduit and wiring systems, and to prevent the passage of explosive pressures from one area to another.

FOR HORIZONTAL AND VERTICAL MOUNTING - Type XYB and XYBM are suitable for either horizontal or vertical mounting and are provided with threaded plugged openings into which fiber and cement can be placed to form effective seal. XYB has female ends for conduit entrance. The XYBM has female ends with a removable threaded nipple.

*1/2", 3/4", 1" sizes Class I, Group B, C, D, Class II, E, F, G.

1 1/4", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4" sizes Class I, Group C, D Class II, E, F, G

CSA Certified LR27991
UL Listed E10493

10A4

Catalog No. Description	Conduit Size (In.)	Ounces Req. For Each Sealing Fitting Cement	Fiber	Standard Package Qty.	Tot. Wt. Lbs.
Female-Female					
XYB-2	1/2	1	1/8	5	2.1
XYB-3	3/4	2	1/4	5	2.6
XYB-4	1	3	1/4	5	3.7
XYB-5	1-1/4	6	3/8	2	2.5
XYB-6	1-1/2	9	1/2	2	3.2
XYB-8	2	18	3/4	2	5.6
XYB-10	2-1/2	23	1-1/2	2	6.2
XYB-12	3	48	3-1/8	1	6.0
XYB-14	3-1/2	70	4-1/2	1	6.8
XYB-16	4	90	6	1	8.3

Catalog No. Description	Conduit Size (In.)	Ounces Req. For Each Sealing Fitting Cement	Fiber	Standard Package Qty.	Tot. Wt. Lbs.
Male-Female					
XYBM-2	1/2	1	1/8	5	2.2
XYBM-3	3/4	2	1/4	5	2.7
XYBM-4	1	3	1/4	5	3.8
XYBM-5	1-1/4	6	3/8	2	2.6
XYBM-6	1-1/2	9	1/2	2	3.4
XYBM-8	2	18	3/4	2	5.9
XYBM-10	2-1/2	23	1-1/2	2	6.8
XYBM-12	3	48	3-1/8	1	6.3
XYBM-14	3-1/2	70	4-1/2	1	7.3
XYBM-16	4	90	6	1	8.8

Nominal Dimensions (Inches)					
Conduit Size	A	B	C	(XYBM Series Only) D	Turn Radius R
1/2	3-19/32	1-13/16	5/8	11/16	1-3/16
3/4	3-25/32	2-1/16	3/4	15/16	1-5/16
1	4-3/8	2-5/16	7/8	15/16	1-7/16
1-1/4	5-5/32	2-13/16	1-1/16	1-1/16	1-3/4
1-1/2	5-11/16	3-3/16	1-3/16	1-3/16	2
2	6-13/16	3-7/8	1-1/2	1-7/16	2-3/8
2-1/2	7-1/2	4-1/2	1-7/8	1-5/8	2-11/16
3	9-9/16	5-1/2	2-3/16	1-7/8	3-5/16
3-1/2	9-1/2	6-1/6	2-3/8	2	3-11/16
4	9-9/16	6-1/2	2-5/8	2-1/8	3-7/8

Compliances

- NEC Class I, Groups B, C, D - Class II, Groups E, F, G
- UL Standard 886 - CSA Standard C22.2 No. 30

Effective Date
5/14/2008

Explosionproof and Dust-Tight Fittings and Accessories

10A6

EXPLOSIONPROOF AND DUST-TIGHT SEALING FITTINGS CLASS I, GROUP D; CLASS II, GROUPS E, F & G; NEMA 7 & NEMA 9

XY 2-3-4 XYM 2-3-4

XY 5-6 XYM 5-6

XYC XYCM

XYCS XYCSM

CSA Certified LR27991

UL Listed E10493

Compliances

- NEC Class I, Group D Class II, Groups E, F, G
- UL Standard 886 - CSA Standard C22.2 No. 30

Adalet Sealing Fittings are used to isolate arc-producing devices from wiring systems and to prevent the spread of explosive gases.

FOR VERTICAL MOUNTING

Types XY and XYM Fittings are for vertical mounting, and are provided with threaded plugged openings into which the sealing cement is poured. Sizes 1-1/4" x 1-1/2" have large plugged openings in the lower hub to facilitate packing fiber around the wires to form a dam. Type XYM's have removable threaded nipples. The two hubs are tapped simultaneously to assure alignment of the conduits, especially important to equipment manufacturers using short runs of conduit.

FOR HORIZONTAL & VERTICAL MOUNTING

Type XYC Fittings are for horizontal mounting only, with the cover opening in an upright position. XYCS fittings are for vertical or horizontal mounting, with removable threaded covers which can be turned to the desired position for pouring in the sealing cement. The covers are interchangeable. The male-to-female types have removable threaded nipple.

Catalog Number		Conduit	Ounces Required per Fitting		Standard Package	
Female/ Female	Male/ Female	Size (In.)	Sealing Cement	Packing Fibre	Qty	Weight Lbs.
XY2	XYM2	1/2	1	1/8	25	10
XY3	XYM3	3/4	1	1/4	25	10
XY4	XYM4	1	2	1/4	25	12-1/2
XY5	XYM5	1-1/4	4	3/8	10	7-1/2
XY6	XYM6	1-1/2	5	1/2	10	10
XYC2	XYC2M	1/2	2	1/8	25	13
XYC3	XYC3M	3/4	2	1/4	25	13
XYC4	XYCM4	1	4-1/2	1/4	25	15
XYC5	XYC5M	1-1/4	8-1/2	3/8	10	10
XYC6	XYC6M	1-1/2	11-1/2	1/2	10	11
XYC8	XYC8M	2	13-1/2	3/4	10	12
XYC10	XYC10M	2-1/2	15	1-1/2	1	2
XYC12	XYC12M	3	31-1/2	3-1/8	1	3
XYC14	XYC14M	3-1/2	42-1/2	4-1/2	1	4
XYC16	XYC16M	4	51	6	1	5
XYC2S	XYC2SM	1/2	2	1/8	25	13
XYC3S	XYC3SM	3/4	2	1/4	25	13
XYC4S	XYC4SM	1	3	1/4	25	15
XYC5S	XYC5SM	1-1/4	6-1/2	3/8	10	10
XYC6S	XYC6SM	1-1/2	10	1/2	10	11
XYC8S	XYC8SM	2	12-1/2	3/4	10	12
XYC10S	XYC10SM	2-1/2	13-1/2	1-1/2	1	2
XYC12S	XYC12SM	3	29-1/2	3-1/8	1	3
XYC14S	XYC14SM	3-1/2	40	4-1/2	1	4
XYC16S	XYC16SM	4	48-1/2	6	1	5