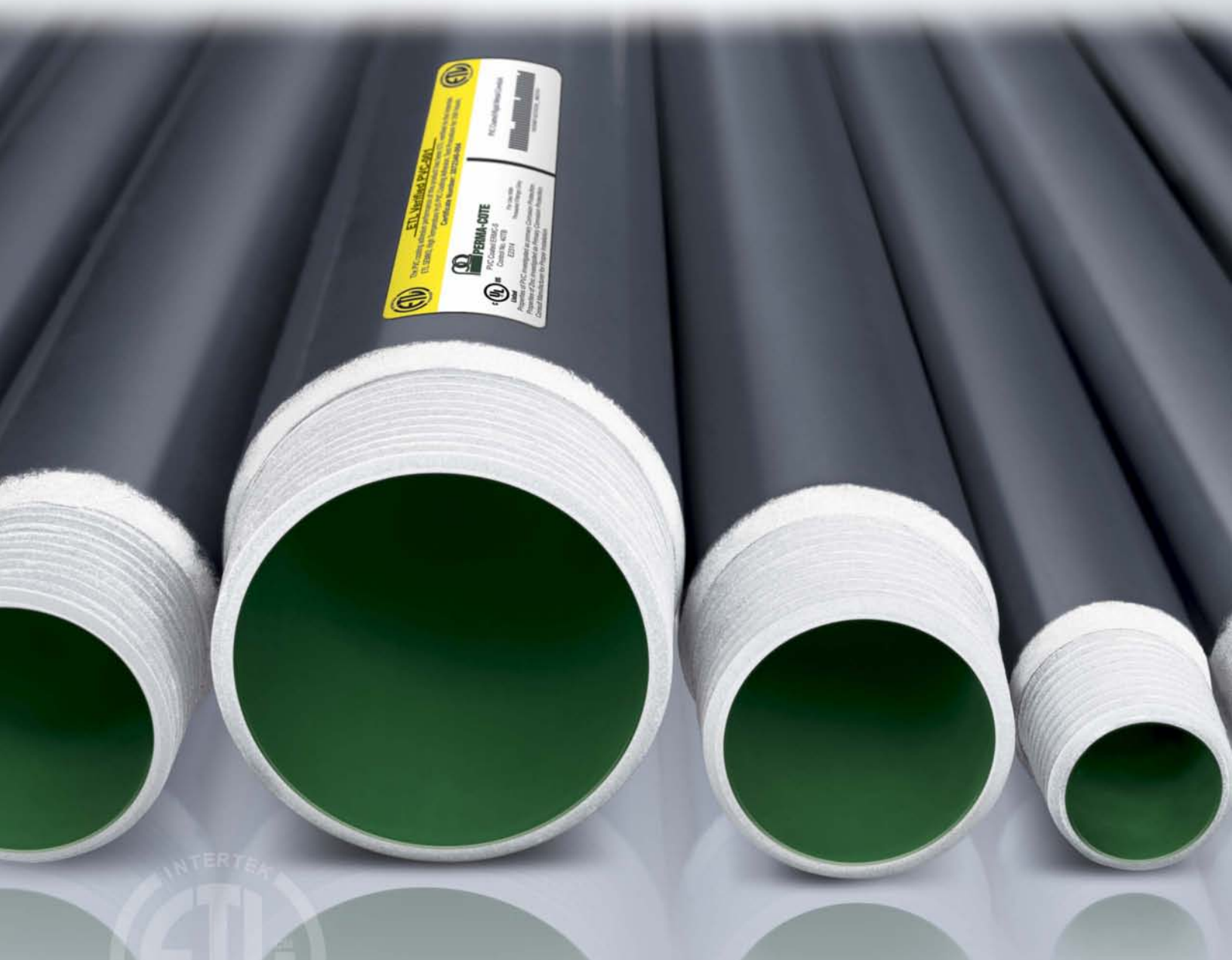




PVC Coated Rigid Metal Conduit

PM-112

# PRODUCT CATALOG & BUYER'S GUIDE



**GO FOR THE GREEN!**



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## Table of Contents

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# 1

## Reason One

### **PERFORMANCE MATTERS!**

**Seven reasons why you should trust the proven value of Perma-Cote PVC-coated galvanized rigid conduit.**

#### **Reason One:**

Perma-Cote ensures premium corrosion protection without a premium price.

*You deserve the corrosion protection you pay for.*

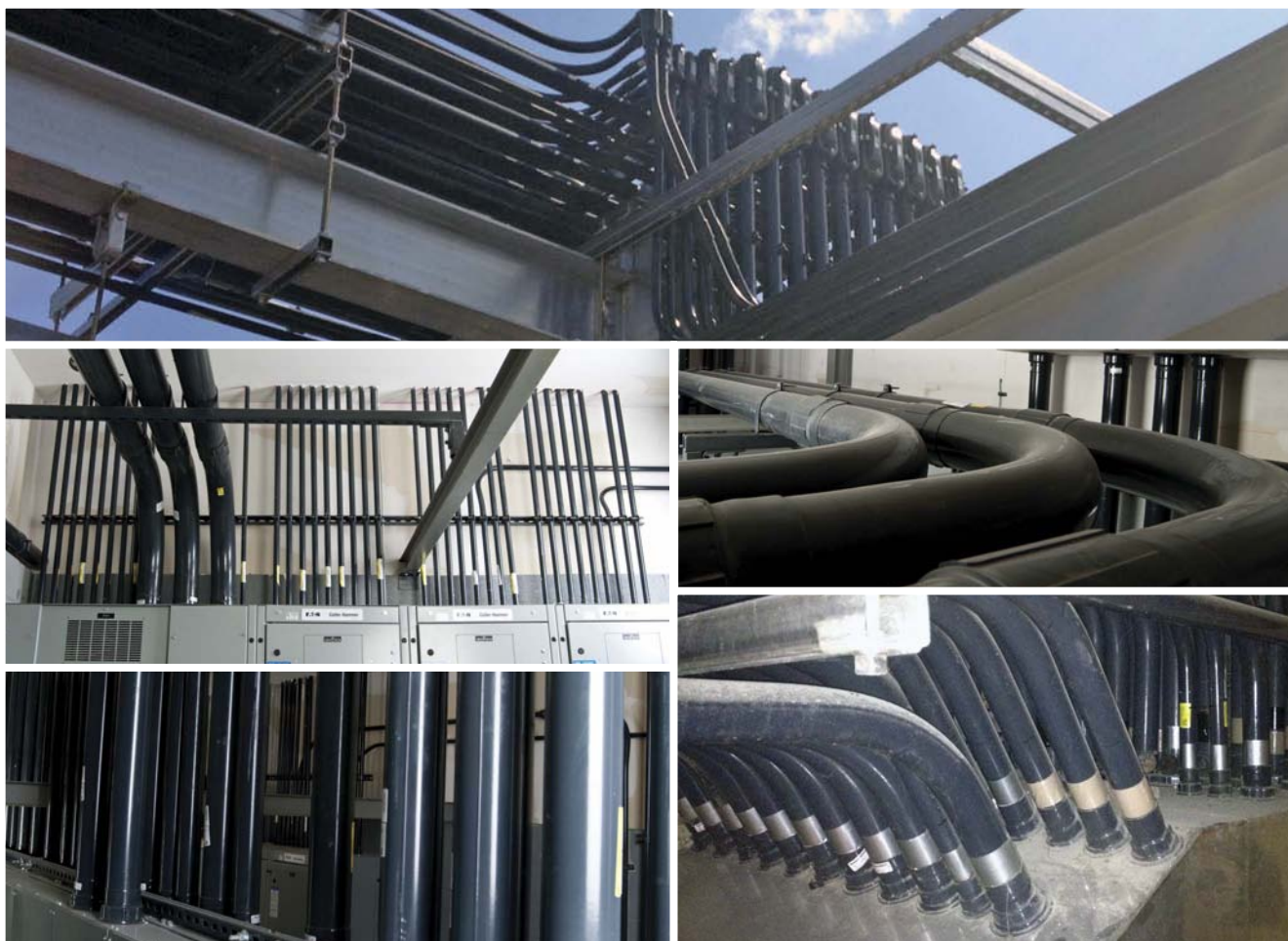
ETL PVC-001 Verified Perma-Cote has been independently proven to provide ten or more times the protective product service life when compared to other brands — and at no added cost.

*Ten times the proven protection from the high cost of corrosion damage.*

#### **AT NO ADDED COST.**

Ten times the proven protection against huge risks from premature product or system failures caused by subpar conduit quality.

#### **AT NO ADDED COST.**





# Why Adhesion is Critical

## 2

### Reason Two

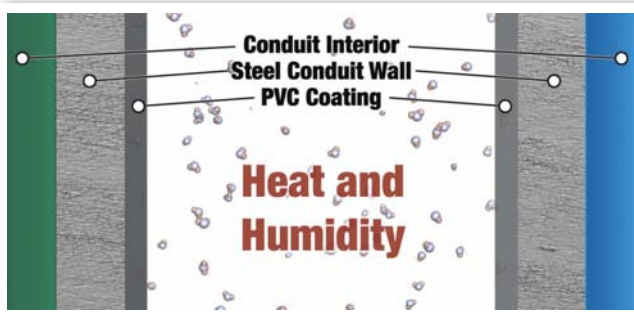
## PERFORMANCE MATTERS!

**Perma-Cote works because its coating adheres. Not all brands can make that claim.**

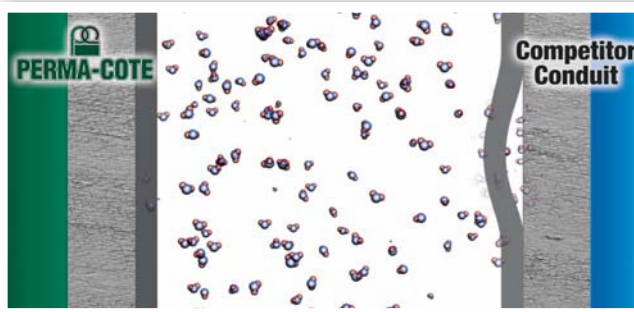


When the PVC coating on galvanized rigid conduit adheres – the product will successfully protect the steel substrate from corrosion damage.

When the PVC coating doesn't adhere properly the product will fail. It's as simple as that.



All coatings are permeable, but those that have a strong adhesive bond will not allow the substrate to be exposed to the environmental elements.



This graphic illustrates the tendency of the competitive coating to lose adhesion. The result is that moisture penetrates, creates voids or pockets, and puts the metal substrate in direct contact with corrosive elements.



This pocket actually accelerates corrosion because it traps the contaminants between the coating and substrate. The life span of coated conduit becomes limited and failure is only a matter of time. Don't allow this to happen to your conduit.

## PERFORMANCE MATTERS!

**Perma-Cote works because its coating adheres. Not all brands can make that claim.**

Although there's a clear distinction between success and failure, ***not all manufacturers have achieved a consistent level of reliable bonding.***

**Perma-Cote has.**

**Need proof? Seeing is believing.**

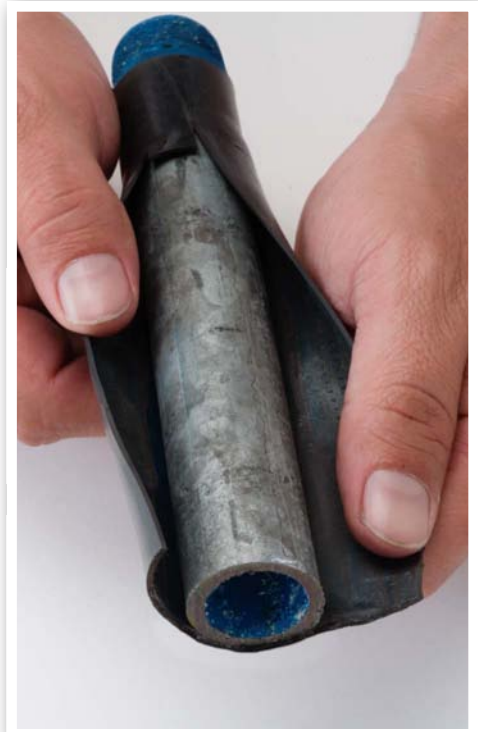
In side-by-side performance comparisons these two conduit samples were exposed for the same number of test hours in boiling water.

### **Why boiling water?**

Because the single most important measure of product success is whether or not the PVC coating will adhere to the steel substrate of the

conduit, thereby protecting it from corrosion. ASTM-accepted accelerated tests in environments such as the boiling water clearly differentiate which coatings perform best. Perma-Cote has been proven reliable even in such extreme environments, so imagine how well it will perform in diverse on-the-job applications.

When cuts are made in the PVC of the competitor's sample — and the tab of coating is then pulled with pliers — the adhesive bonding fails entirely and separates completely from the steel substrate it is supposed to protect.



# FAILURE

# Why Adhesion is Critical

## PERFORMANCE MATTERS!

Perma-Cote works because its coating adheres.  
Not all brands can make that claim.



When the same procedure is applied to Perma-Cote (right), the PVC breaks away from itself and **does not expose the substrate** – thereby preserving the all-important bond that fights corrosion.



# SUCCESS



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### Reason Three

## PERFORMANCE MATTERS!

**Perma-Cote is both UL6 listed and ETL PVC-001 Verified. Others are not.**

All major brands of PVC-coated galvanized rigid conduit meet exactly the same standards established in UL, and are authorized to carry an identical UL listing label for PVC-coated galvanized rigid conduit.

**However — not all brands are ETL PVC-001 Verified.**

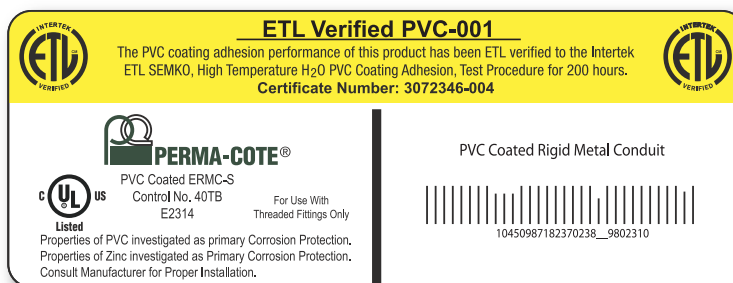
**Perma-Cote is. Others are not.**

### Why is this of critical importance?

UL6 is an important standard that addresses safety for rigid metal conduit. It is not, however, a performance standard.

ETL PVC-001 Verified is an internationally recognized listing based on performance evaluations and on predicting service life.

It is on the basis of independent, objective product comparisons by ETL that Perma-Cote has been proven to provide ten or more times the protective service life of brands that are not authorized to carry the ETL PVC-001 label.



### Here are some additional facts that you should know:

- ETL PVC-001 validates the coating performance of PVC-coated galvanized rigid conduit based on ASTM D870 and ASTM D1151/ASTM D2247 — the accepted ASTM tests for predicting product service life. These tests are not intended to replicate a specific environment. Rather, **they are designed to predict the service life** of a coating under the two most common conditions that affect adhesive bonds: heat and humidity.
- Perma-Cote re-earns its ETL PVC-001 label on a quarterly basis by repeatedly and successfully passing the stringent performance tests required for verification.
- ETL verification is an “open standard”. Testing is open to any manufacturer who believes that the quality of its protective coating can consistently meet ETL verification requirements. If you do not see an ETL label on a brand of PVC-coated galvanized rigid conduit, you have every right to ask “why not?”



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## Reason Four

### PERFORMANCE MATTERS!

**Risk of premature PVC-coated galvanized rigid conduit failure.**

Specifying ETL PVC-001 Verified Perma-Cote protects you, and those to whom you are responsible, from the enormous risk of premature PVC-coated galvanized rigid conduit failure.

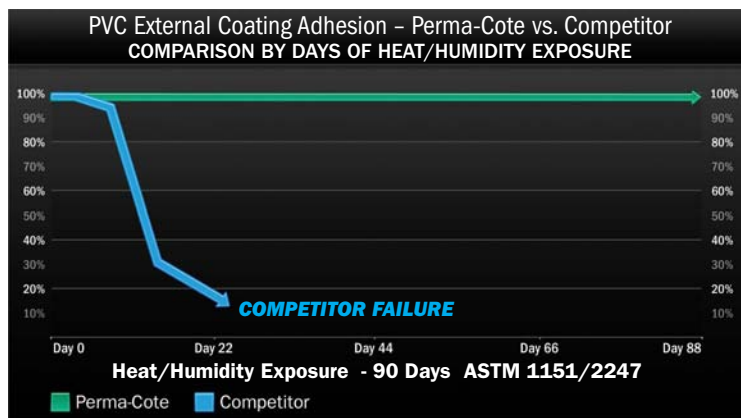
The risk of premature product failure can have an enormous impact on costs including downtime, safety, legal and environmental.

That fact needs to be addressed in job specifications by written mandates requiring ETL PVC-001 Verification.

#### To review the vital reasons why:

- All major PVC-coated conduit brands comply with standards as established by UL6.
- There exists only one definitive difference between brands of PVC-coated galvanized rigid conduit: ETL PVC-001 Verification of product performance and predictability of service life.

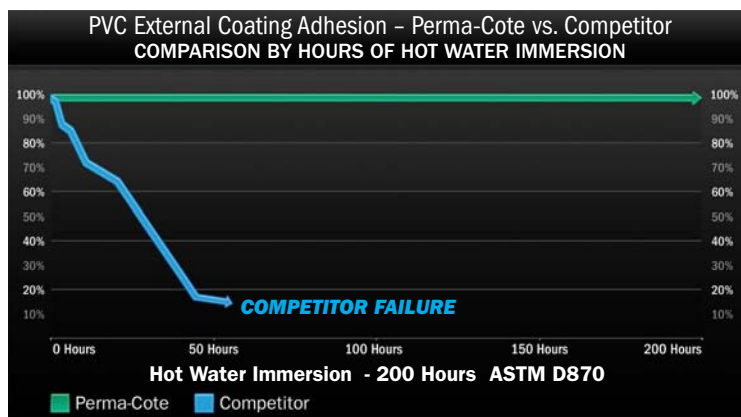
Therefore, if reliability of product service life is important to engineering design, avoidance of costly or catastrophic product or system failure, it should be assumed in the specification process that only PVC-coated galvanized conduit carrying the ETL verification label will meet the standards established by all relevant ASTM tests, including those predicting product service life.



#### Graphic representation of ETL test results of Perma-Cote compared to competitor.

ETL quantified the adhesion performance of the two products in the same heat and humidity test at 150°F and 95% relative humidity. Perma-Cote testing was stopped after 90 days with zero adhesion loss.

The competitor's coating began to delaminate after 9 days and had complete delamination at approximately 20 days.



In the hot water immersion test, the competitor's coating adhesion failed almost immediately.

Perma-Cote coating was tested for 200 hours with zero failure.



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### Reason Five

## PERFORMANCE MATTERS!

Unsurpassed manufacturing explains why Perma-Cote has “No Equal.”

**Not all PVC-coated galvanized rigid conduit is created equal.**

Perma-Cote has maintained and evolved its position of technological leadership in many key ways:

### Unmatched bonding adhesion for unmatched conduit protection.

Perma-Cote thoroughly understands and conforms to the voluntary, non-regulated guidelines of the NEMA RN-1 standard. This is especially true with regard to how we prepare the zinc surface of conduit to enable a degree of coating adhesion not achieved by other manufacturers.



In accomplishing this we remove surface oxidation and, through a special technology called **AEP (Adhesion Enhancement Process)**, we rough the outer surface of the zinc without harming or eroding it.

In that way, not only do we comply with NEMA RN-1, but we exceed it. Our hot dipped galvanized conduit and fittings outperform the competition because we have prepared the surface of our products for maximum bonding reliability.



# Manufacturing Performance!

## Nothing can touch our threads!

Our multimillion dollar **ProTECH™** system provides our **conduit threads with unsurpassed corrosion protection.**

After PVC coating of the conduit, the automated process begins with a trimming operation to remove excess PVC from the conduit ends.

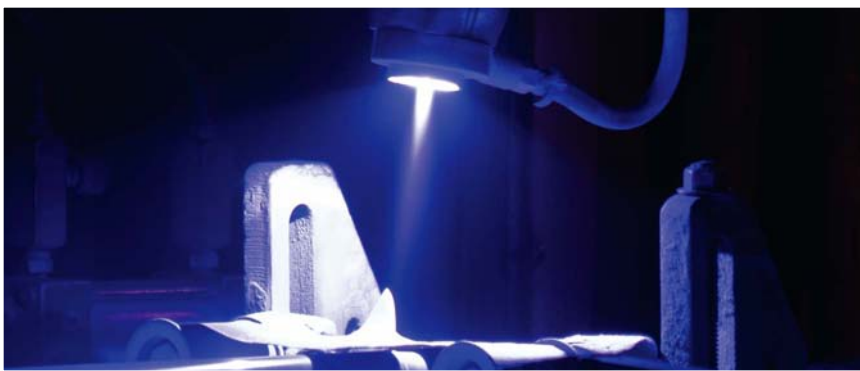
Next is mechanical surface preparation of the previously chemically cleaned conduit threads. This is critical because surface preparation is the key to any good bond.

Then, the clean pipe threads are hot-galvanized using specially designed equipment, including 3-axis robotic arms.

Through the final manufacturing process **nothing touches the zinc coating of our threads!**



Our manufacturing process is open to our customers.  
Come see for yourself and compare to what our competitors don't do.



**Perma-Cote**  
**"No Equal"**



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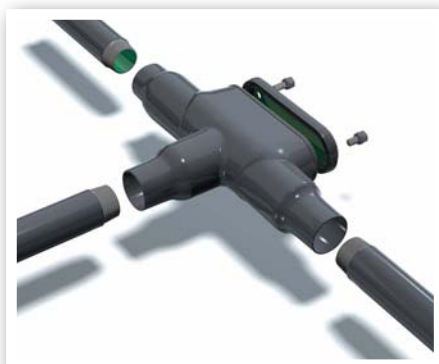
## 6

### Reason Six

## PERFORMANCE MATTERS!

Perma-Cote provides you value-added differentiators.

*Perma-Cote is not simply a product — it is a key link in a system designed to beat the high cost of corrosion damage. The following graphic illustrates how the beneficial differentiators of Perma-Cote provide added value in making the system work.*

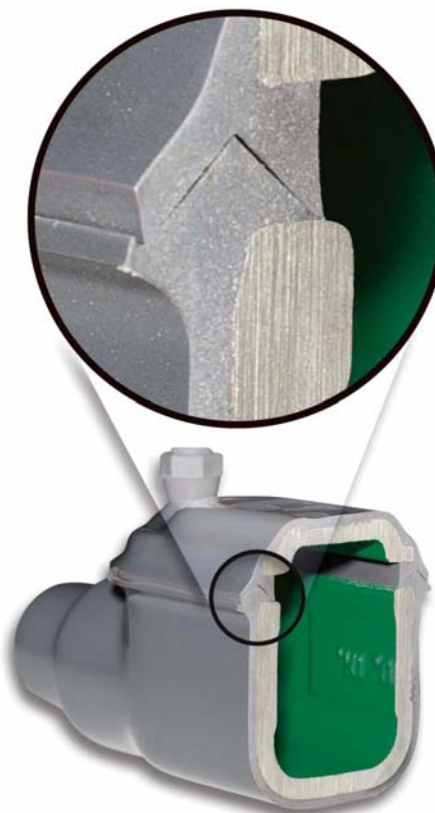


### OUR UNIQUE V-SEAL

Our V-Seal® gasket — with special interlocking “V” groove — is the most effective way of preventing corrosion damage by sealing PVC coated Form 8 Conduit Bodies, sizes 1/2" to 2".

### WANT MORE GOOD NEWS?

You won't have to pay more for the best available protection than you would for a standard fitting. It's all part of the unequalled value provided to you through Perma-Cote.





# Value-Added Benefits

## **Chemical resistance...**

...to a wide range of corrosive chemicals, preventing exposure of the metal to damaging environments.

## **UV stabilized PVC formulation...**

...developed exclusively for us to dramatically reduce UV degradation in outdoor applications.

## **Clamps designed for PVC-coated conduit...**

...includes coated pipe straps, clamps and clamp back spacers that are specially designed to fit Perma-Cote for ease of installation.

## **V-SEAL® Form 8 fittings...**

...patented, unique interlocking V-groove covers effectively seal out corrosive environments.

## **PVC sealing sleeves...**

...sized to fit tightly over the coated conduit when assembled, thereby keeping corrosive elements from the threaded joints.

## **Molded ribbed couplings...**

...allow for easier installation of the conduit system by providing enhanced gripping.

## **Comprehensive line of factory nipples and elbows (standard and special radius)...**

...ready for quick shipment and designed to provide lower labor costs via faster installation.

## **Polyurethane coatings...**

...specially formulated to protect the interior of our conduit from corrosion and chemicals while also allowing optimum durability and friction-reduced ease of wire-pulls.

## **PVC gasket seals...**

...keep corrosives from getting into the conduit system through joints and openings, protecting the interior of the system from corrosion.

## **Encapsulated stainless steel Form 8 conduit cover screws...**

...for maximum corrosion protection by way of a seal around each screw opening.

## **Installer Certification...**

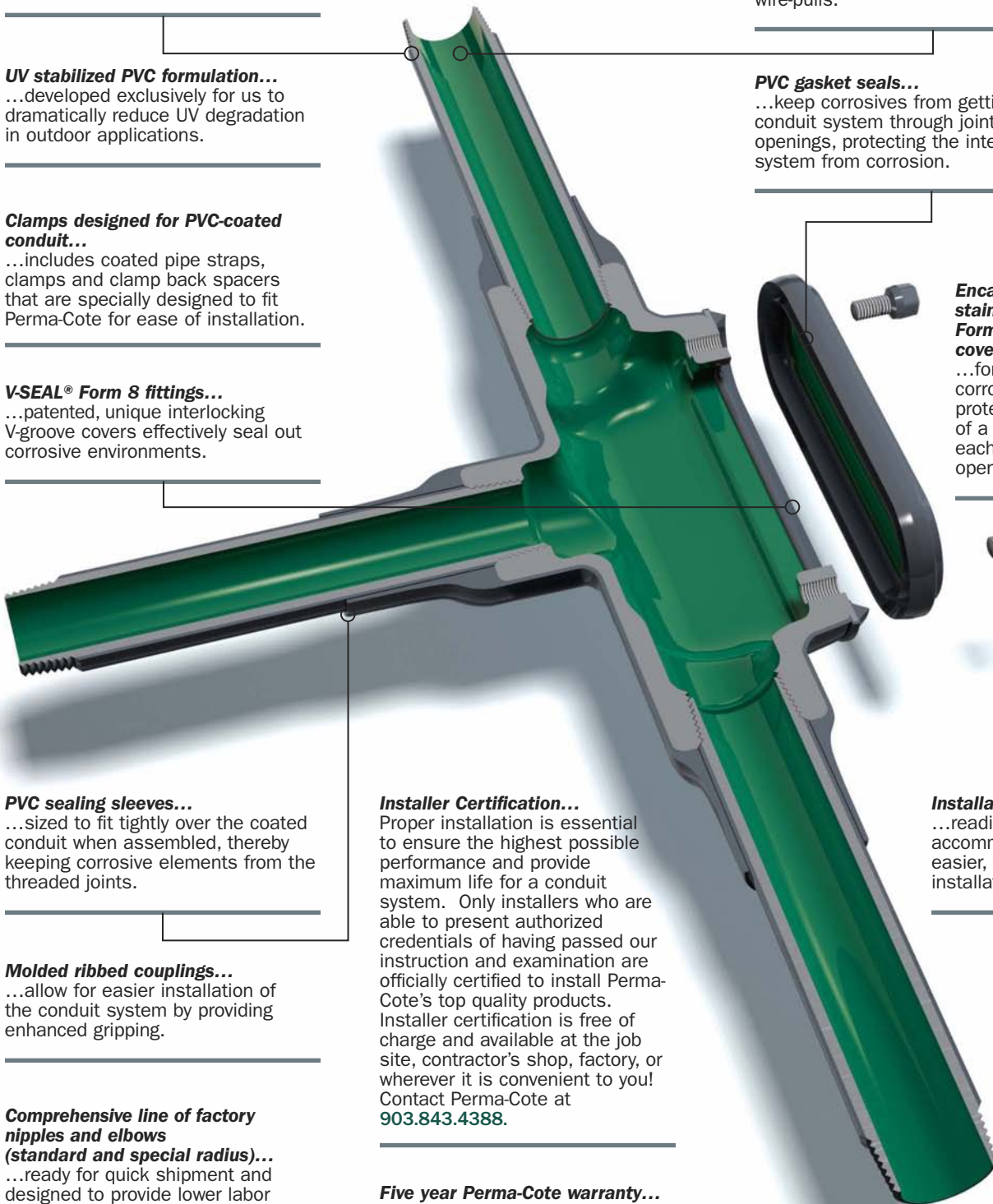
Proper installation is essential to ensure the highest possible performance and provide maximum life for a conduit system. Only installers who are able to present authorized credentials of having passed our instruction and examination are officially certified to install Perma-Cote's top quality products. Installer certification is free of charge and available at the job site, contractor's shop, factory, or wherever it is convenient to you! Contact Perma-Cote at **903.843.4388**.

## **Five year Perma-Cote warranty...**

...for peace of mind.

## **Installation tools...**

...readily available to accommodate faster, easier, damage-free installation.



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## Reason Seven

### PERFORMANCE MATTERS!

**Just look for the combined ETL PVC-001 and UL label and you'll know you're protected!**

Use Perma-Cote and you will benefit from objective, independently-proven anti-corrosion performance. Just look for the combined ETL PVC-001 and UL label and you'll know you're protected!

## Myths & Truths

**There are myths about PVC-coated galvanized rigid conduit.**  
**There are truths about PVC-coated galvanized rigid conduit.**  
*Here's how you can separate fact from fiction.*

### Myth

***All PVC-coated galvanized rigid conduit is the same. As long as it's UL-listed that's all that matters.***

### Truth

***All PVC-coated galvanized rigid conduit is NOT created equal.***

All major brands of PVC-coated galvanized rigid conduit do in fact carry the UL6 listing. That's great. It's important to know, however, that this is a safety-related listing. It is NOT a performance or service life listing. In fact, UL6 does not differentiate between the performance of coatings. It considers zinc and PVC as equal alternatives and does not suggest the appropriateness of a specific coating for a specific environment.

The truth is: Perma-Cote also carries the ETL PVC-001 verification label demonstrating that in performance, the reliable, protective service life of Perma-Cote is at least ten times longer than other brands. ETL is a regulated standard that is re-tested every quarter to verify performance. Ongoing compliance assures a consistent quality in the manufacturing of our product.

Perma-Cote gives you the peace of mind made possible by carrying BOTH the UL and ETL labels — at no added cost to you.

### Myth

***ETL testing evaluates the performance of PVC-coated galvanized rigid conduit in boiling water. That isn't relevant because no one boils conduit in real applications.***

### Truth

The testing methods chosen by ETL are nationally recognized ASTM accelerated life cycle test methods to evaluate the effectiveness of a coating under the two most common environmental conditions of heat and humidity. These are not application tests. They are accelerated tests to compare two or more products in the same environment at the same time.

In hot water immersion other brands' coating began to fail within the first hour and completely after 50. Perma-Cote's coating maintained its integrity for 200 hours. In the humidity test, the other coatings began delaminating after 9 days. Perma-Cote's coating showed no adhesion loss even after 90 days.

These were exact comparisons.

The superior PVC coating is clear.

**Perma-Cote.**

# Myths and Truths



## Myth

*Perma-Cote paid for ETL testing so the results are marketing hype.*

## Truth

The first part is true. Perma-Cote paid for ETL testing.

Just like every manufacturer pays for product testing or UL testing and listings.

As to marketing hype:

- ETL is one of the foremost recognized testing and evaluation services in the world. Its results and verifications are internationally accepted as objective standards for diverse industries. Even our competitor accepts the importance of ETL because many of the other products manufactured by its parent company carry the ETL label.
- Our competition is welcome at any time to submit their PVC-coated galvanized rigid conduit for similar evaluation. ETL PVC-001 is an open standard. We have to assume that the only reason others do not have an ETL label is because their product does not meet the minimum thresholds for service life requirements.

**Not all PVC-coated galvanized rigid conduit is created equal.**

**If product performance and service life are important to you... look for the ETL PVC-001 Verification label.**

If your PVC-coated galvanized rigid conduit doesn't carry an ETL PVC-001 label you risk premature product failure and the consequences of costs related to downtime as well as safety, legal and environmental issues.

**Perma-Cote... “No Equal”**



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## Corrosion and Harsh Environment Protection

| Harsh Chemicals            | CHEMICAL RESISTANCE PERFORMANCE RATING |                     |          |           |            |
|----------------------------|----------------------------------------|---------------------|----------|-----------|------------|
|                            | 316 STAINLESS STEEL                    | 304 STAINLESS STEEL | ALUMINUM | CAST IRON | PVC COATED |
| Acetic Acid (20%)          | B                                      | B                   | B        | D         | B          |
| Chlorine, Anhydrous Liquid | D                                      | D                   | D        | D         | D          |
| Chlorine Water             | D                                      | D                   | D        | D         | A          |
| Citric Acid                | A                                      | B                   | C        | D         | A          |
| Diethylene Glycol          | A                                      | A                   | B        | A         | B          |
| Fruit Juice                | A                                      | A                   | B        | D         | A          |
| Hydrogen Peroxide (30%)    | B                                      | B                   | A        | B         | A          |
| Phosphoric Acid (Crude)    | C                                      | D                   | D        | D         | A          |
| Phosphoric Acid (>40%)     | A                                      | B                   | D        | D         | A          |
| Sodium Carbonate           | A                                      | B                   | C        | B         | A          |
| Sodium Chloride            | C                                      | B                   | C        | D         | A          |
| Sodium Hydroxide (50%)     | B                                      | A                   | D        | D         | A          |
| Sodium Metasilicate        | A                                      | A                   | B        | A         | A          |
| Sodium Silicate            | B                                      | A                   | C        | B         | A          |
| Sulfuric Acid (10-75%)     | D                                      | D                   | D        | D         | A          |

**Chemical Resistance Performance Rating Key**

A Excellent
 B Good
 C Fair
 D Not Recommended

The chart above will guide you in the selection of the best anti-corrosion products for your specific applications. There is a direct correlation between every corrosive environment and products installed to protect against the high cost of corrosion damage. Consequently, product performance and product life cycles are critical to successful protection. In that regard not all PVC-coated galvanized rigid conduit is created equal.

All such conduit is authorized to carry an identical UL listing label related to safety, but only some manufacturers, such as Perma-Cote have earned the right to carry the ETL-Verified PVC-001 label based on independent product performance tests proving that ETL-Verified PVC-coated galvanized rigid conduit provides reliable protection against corrosion 10 or more times longer than brands that have not been ETL-Verified.



# PVC Coated Conduit



## PVC Coated Conduit

### Description:

PVC coated galvanized rigid conduit with green urethane interior coating protects conductors from mechanical damage and corrosive attack. Electrical continuity is maintained across assembled joints.

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- PROTECH threads – A clear urethane coating over hot galvanized threads
- 12 trade sizes from 1/2" through 6"
- Shipped in 10' lengths with coupling
- Plastic thread protector caps are color coded for quick identification of conduit size
- One "no charge" coupling is included with each 10' length of conduit

### Thread Protector Cap Colors:

Black - for 1/2" sizes, 1/2", 1-1/2", 2-1/2", 3-1/2"

Red - for 1/4" sizes, 3/4", 1-1/4"

Blue - for even sizes, 1", 2", 3", 4", 5", 6"

### Standards:

#### Steel and Aluminum

- UL 6 (E2314); UL 6A (E98405)
- CSA C22.2 No. 45
- Both PVC and zinc coatings have been investigated as primary protection against corrosion. Restricted for use with threaded fittings only.

## Coated Conduit Technical Data

### COATED CONDUIT

| METRIC SIZE DESIGNATORS | PIPE SIZE INCHES | CATALOG NUMBER | OUTSIDE WALL THICKNESS INCHES | DIAMETER WITH COATING INCHES | INTERNAL INSIDE DIAMETER INCHES | TRAVERSE AREA SQ. INCHES | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-------------------------|------------------|----------------|-------------------------------|------------------------------|---------------------------------|--------------------------|----------------|--------------------|
| 16                      | 1/2"             | 050-CON        | .104"                         | .920"                        | 0.632"                          | 0.314"                   | 85             | 050-CON-A          |
| 21                      | 3/4"             | 075-CON        | .107"                         | 1.130"                       | 0.836"                          | 0.549"                   | 112            | 075-CON-A          |
| 27                      | 1"               | 100-CON        | .126"                         | 1.395"                       | 1.063"                          | 0.887"                   | 164            | 100-CON-A          |
| 35                      | 1-1/4"           | 125-CON        | .133"                         | 1.740"                       | 1.394"                          | 1.526"                   | 217            | 125-CON-A          |
| 41                      | 1-1/2"           | 150-CON        | .138"                         | 1.980"                       | 1.624"                          | 2.071"                   | 268            | 150-CON-A          |
| 53                      | 2"               | 200-CON        | .146"                         | 2.455"                       | 2.083"                          | 3.408"                   | 358            | 200-CON-A          |
| 63                      | 2-1/2"           | 250-CON        | .193"                         | 2.955"                       | 2.489"                          | 4.866"                   | 546            | 250-CON-A          |
| 78                      | 3"               | 300-CON        | .205"                         | 3.580"                       | 3.090"                          | 7.499"                   | 708            | 300-CON-A          |
| 91                      | 3-1/2"           | 350-CON        | .215"                         | 4.080"                       | 3.570"                          | 10.010"                  | 851            | 350-CON-A          |
| 103                     | 4"               | 400-CON        | .225"                         | 4.580"                       | 4.050"                          | 12.882"                  | 1009           | 400-CON-A          |
| 129                     | 5"               | 500-CON        | .245"                         | 5.643"                       | 5.073"                          | 20.212"                  | 1337           | 500-CON-A          |
| 155                     | 6"               | 600-CON        | .266"                         | 6.705"                       | 6.093"                          | 29.158"                  | 1993           | 600-CON-A          |



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## Nipples

### Description:

Perma-Cote factory threaded nipples save you time and money in the field. Electrical continuity is maintained across assembled joints.

*\*The exteriors of certain short nipples are coated with urethane in lieu of PVC. This is dictated by the manufacturing process as well as assembly considerations.*

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 12 trade sizes from 1/2" through 6"
- 11 standard lengths in available:  
Close, 2" to 12"
- Made to order lengths available – Call for quote
- Plastic thread protector caps are color coded for quick identification of conduit size.

### Thread Protector Cap Colors:

Black - for 1/2" sizes, 1/2", 1-1/2", 2-1/2", 3-1/2"

Red - for 1/4" sizes, 3/4", 1-1/4"

Blue - for even sizes, 1", 2", 3", 4", 5", 6"

### Standards:

#### Steel and Aluminum

- UL 6 (E2314); UL 6A (E98405)
- CSA C22.2 No. 45
- Both PVC and zinc coatings have been investigated as primary protection against corrosion. Restricted for use with threaded fittings only.

## Simple Steps To Ordering

To order the Perma-Cote coated nipples follow this simple formula to create your Perma-Cote catalog number.

Use the Conversion Chart to convert trade sizes to trade code.

### Conversion Chart

| TRADE SIZE | TRADE SIZE CODE |
|------------|-----------------|
| 1/2"       | 050             |
| 3/4"       | 075             |
| 1"         | 100             |
| 1-1/4"     | 125             |
| 1-1/2"     | 150             |
| 2"         | 200             |
| 2-1/2"     | 250             |
| 3"         | 300             |
| 3-1/2"     | 350             |
| 4"         | 400             |
| 5"         | 500             |
| 6"         | 600             |

### NIP - CODE X LENGTH

-A

The catalog number for a Perma-Cote coated steel, 1/2" nipple with a length of 10":  
**NIP-050X10**

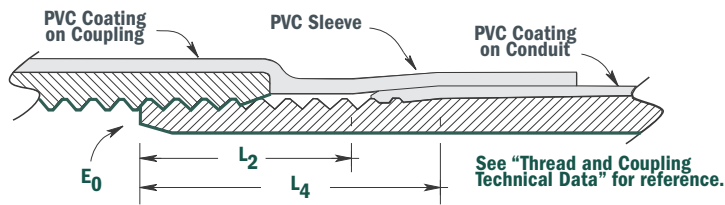
### TRY IT!

|                                          |                          |                                |                                    |
|------------------------------------------|--------------------------|--------------------------------|------------------------------------|
| Enter "NIP"<br>Standard<br>Nipple Prefix | Enter Trade<br>Size Code | Enter Desired<br>Nipple Length | For Aluminum<br>Add<br>'-A' suffix |
| <b>NIP</b>                               | -                        | <b>050</b>                     | <b>X 10 - A</b>                    |

This number can then be looked up in the listing of pricing to determine price and availability.

**Call 903.843.4388 for custom orders, customer service, and more information on Perma-Cote.**

# PVC Coated Couplings



All female pipe openings are provided with a PVC sleeve sized to fit tightly over the PVC coated conduit when assembled. This prevents corrosives from contacting threaded joints.



## PVC Coated Couplings

### Description:

PVC coated rigid metal conduit couplings with green urethane interior coating connects coated conduit sections. Electrical continuity is maintained across assembled joints. PVC sleeves on couplings seal off on conduit PVC coating when assembled to prevent corrosive liquids and vapors from attacking threaded

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating over galvanized threads
- 12 trade sizes from 1/2" through 6"
- Sealing sleeves on both ends
- Molded external ribs on 1/2" – 4" to prevent tool damage during assembly
- Couplings are straight tapped

### Standards:

#### Steel and Aluminum

- UL 6 (E2314); UL 6A (E98405)
- CSA C22.2 No. 45

## Thread and Coupling Technical Data

### COUPLING

| METRIC<br>SIZE<br>DESIGNATORS | PIPE<br>SIZE<br>INCHES | STEEL<br>CATALOG # | NOMINAL<br>WEIGHT PER 100<br>(POUNDS) | OUTSIDE<br>DIAMETER<br>WITH<br>RIBS<br>INCHES | THREADS<br>PER<br>INCH | THREADS                               |                                                                       |                                                                    | ALUMINUM<br>CATALOG # |
|-------------------------------|------------------------|--------------------|---------------------------------------|-----------------------------------------------|------------------------|---------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------|
|                               |                        |                    |                                       |                                               |                        | EFFECTIVE<br>LENGTH<br>L <sub>2</sub> | TOTAL<br>LENGTH<br>OF THREADS<br>TO VANISH<br>POINT<br>L <sub>4</sub> | PITCH<br>AT END<br>OF THREAD<br>3/4 IN.<br>TAPER<br>E <sub>0</sub> |                       |
| 16                            | 1/2"                   | CPL-050            | 19                                    | 1.344"                                        | 14                     | .5337"                                | .7815"                                                                | .7584"                                                             | CPL-050-A             |
| 21                            | 3/4"                   | CPL-075            | 32                                    | 1.531"                                        | 14                     | .5457"                                | .7935"                                                                | .9677"                                                             | CPL-075-A             |
| 27                            | 1"                     | CPL-100            | 40                                    | 1.781"                                        | 11-1/2                 | .6828"                                | .9845"                                                                | 1.2136"                                                            | CPL-100-A             |
| 35                            | 1-1/4"                 | CPL-125            | 50                                    | 2.156"                                        | 11-1/2                 | .7068"                                | 1.0085"                                                               | 1.5571"                                                            | CPL-125-A             |
| 41                            | 1-1/2"                 | CPL-150            | 69                                    | 2.469"                                        | 11-1/2                 | .7235"                                | 1.0252"                                                               | 1.7961"                                                            | CPL-150-A             |
| 53                            | 2"                     | CPL-200            | 93                                    | 2.969"                                        | 11-1/2                 | .7565"                                | 1.0582"                                                               | 2.2690"                                                            | CPL-200-A             |
| 63                            | 2-1/2"                 | CPL-250            | 123                                   | 3.594"                                        | 8                      | 1.1375"                               | 1.5712"                                                               | 2.7195"                                                            | CPL-250-A             |
| 78                            | 3"                     | CPL-300            | 217                                   | 4.250"                                        | 8                      | 1.2000"                               | 1.6337"                                                               | 3.3406"                                                            | CPL-300-A             |
| 91                            | 3-1/2"                 | CPL-350            | 422                                   | 4.875"                                        | 8                      | 1.2500"                               | 1.6837"                                                               | 3.8375"                                                            | CPL-350-A             |
| 103                           | 4"                     | CPL-400            | 391                                   | 5.250"                                        | 8                      | 1.3000"                               | 1.7337"                                                               | 4.3344"                                                            | CPL-400-A             |
| 129                           | 5"                     | CPL-500            | 550                                   | 6.080"                                        | 8                      | 1.4063"                               | 1.8400"                                                               | 5.3907"                                                            | CPL-500-A             |
| 155                           | 6"                     | CPL-600            | 884                                   | 7.280"                                        | 8                      | 1.5125"                               | 1.9462"                                                               | 6.4461"                                                            | CPL-600-A             |

Couplings are straight tapped.

Tolerance, thread length = ± 1 thread.

Plus or minus 1 turn is the maximum variation permitted from the gauging face of the working thread gauges.

This is equivalent to plus or minus 1 and 1-1/2 turns from the basic dimensions, since the variation of plus or minus 1/2 turn from basic dimension is permitted in working gauges.



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## PVC Coated Elbows

### Description:

Perma-Cote factory bent standard radius elbows are available and ready to ship. Factory bent elbows are more accurate, quicker to install, and more economical, because they save field bending time and do not waste materials. Electrical continuity is maintained across assembled joints.

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 12 trade sizes from 1/2" through 6"
- Available in standard sizes 90°, 60°, 45°, 30° bends
- Plastic thread protector caps are color coded for quick identification of conduit size.

### Thread Protector Cap Colors:

Black - for 1/2" sizes, 1/2", 1-1/2", 2-1/2", 3-1/2"

Red - for 1/4" sizes, 3/4", 1-1/4"

Blue - for even sizes, 1", 2", 3", 4", 5", 6"

### Standards:

#### Steel and Aluminum

- UL 6 (E2314); UL 6A (E98405)
- CSA C22.2 No. 45
- Both PVC and zinc coatings have been investigated as primary protection against corrosion. Restricted for use with threaded fittings only.

### Conversion Chart

| TRADE SIZE | TRADE SIZE CODE |
|------------|-----------------|
| 1/2"       | 050             |
| 3/4"       | 075             |
| 1"         | 100             |
| 1-1/4"     | 125             |
| 1-1/2"     | 150             |
| 2"         | 200             |
| 2-1/2"     | 250             |
| 3"         | 300             |
| 3-1/2"     | 350             |
| 4"         | 400             |
| 5"         | 500             |
| 6"         | 600             |

## Simple Steps To Ordering

To order the Perma-Cote coated elbows follow this simple formula to create your Perma-Cote catalog number.

Use the Conversion Chart to convert trade sizes to trade code.

The catalog number for a Perma-Cote coated steel, 1/2" elbow with a 45° bend: **EL-050X45**

### TRY IT!

| REQUIRED                         |                       |                          | OPTIONAL                             |                             |
|----------------------------------|-----------------------|--------------------------|--------------------------------------|-----------------------------|
| Enter "EL" Standard Elbow Prefix | Enter Trade Size Code | Enter the Degree of Bend | For Large Radius Elbows Enter Radius | For Aluminum Add 'A' suffix |
| EL                               | -                     | X                        | X                                    | - A                         |

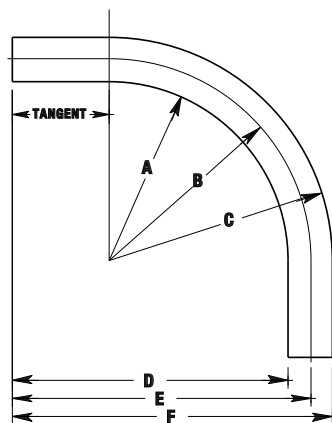
This number can then be looked up in the listing of pricing to determine price and availability.

**Call 903.843.4388 for custom orders, customer service, and more information on Perma-Cote.**



# PVC Coated Elbows

## Dimensions



### DIAGRAM LEGEND

- A = Radius at inside of bend.
- B = Radius at center line of bend.
- C = Radius at outside of bend.
- D = Offset at inside of bend.
- E = Offset at center of bend.
- F = Offset at outside of bend.

## Standard Radius Elbows

|                               |                           | DIAMETERS          |                    |                             | RADII       |                           |             | OFFSET      |             |             | TANGENT<br>INCHES |
|-------------------------------|---------------------------|--------------------|--------------------|-----------------------------|-------------|---------------------------|-------------|-------------|-------------|-------------|-------------------|
| METRIC<br>SIZE<br>DESIGNATORS | NOMINAL<br>SIZE<br>INCHES | EXTERNAL<br>INCHES | INTERNAL<br>INCHES | NIPPLE<br>LENGTHS<br>INCHES | A<br>INCHES | (STANDARD)<br>B<br>INCHES | C<br>INCHES | D<br>INCHES | E<br>INCHES | F<br>INCHES |                   |
| 16                            | 1/2"                      | 0.920"             | 0.632"             | 11-1/4"                     | 3.79"       | 4.25"                     | 4.71"       | 6.040"      | 6.500"      | 6.960"      | 2.250"            |
| 21                            | 3/4"                      | 1.130"             | 0.836"             | 12-1/2"                     | 3.94"       | 4.50"                     | 5.07"       | 6.685"      | 7.250"      | 7.815"      | 2.750"            |
| 27                            | 1"                        | 1.395"             | 1.063"             | 14-3/4"                     | 5.05"       | 5.75"                     | 6.45"       | 7.928"      | 8.625"      | 9.323"      | 2.875"            |
| 35                            | 1-1/4"                    | 1.740"             | 1.394"             | 17-3/4"                     | 6.38"       | 7.25"                     | 8.12"       | 9.567"      | 10.437"     | 11.307"     | 3.187"            |
| 41                            | 1-1/2"                    | 1.980"             | 1.624"             | 19-3/4"                     | 7.26"       | 8.25"                     | 9.24"       | 10.635"     | 11.625"     | 12.615"     | 3.375"            |
| 53                            | 2"                        | 2.455"             | 2.083"             | 22-1/2"                     | 8.27"       | 9.50"                     | 10.73"      | 12.086"     | 13.313"     | 14.541"     | 3.813"            |
| 63                            | 2-1/2"                    | 2.955"             | 2.489"             | 28"                         | 9.02"       | 10.50"                    | 11.98"      | 14.776"     | 16.253"     | 17.731"     | 5.753"            |
| 78                            | 3"                        | 3.580"             | 3.080"             | 32"                         | 11.21"      | 13.00"                    | 14.79"      | 17.000"     | 18.790"     | 20.580"     | 5.790"            |
| 91                            | 3-1/2"                    | 4.080"             | 3.570"             | 39-1/2"                     | 12.96"      | 15.00"                    | 17.04"      | 20.920"     | 22.960"     | 25.000"     | 7.960"            |
| 103                           | 4"                        | 4.580"             | 4.050"             | 39-1/2"                     | 13.71"      | 16.00"                    | 18.29"      | 20.890"     | 23.180"     | 25.470"     | 7.180"            |
| 129                           | 5"                        | 5.643"             | 5.073"             | 59-1/2"                     | 21.18"      | 24.00"                    | 26.82"      | 32.079"     | 34.900"     | 37.722"     | 10.900"           |
| 155                           | 6"                        | 6.705"             | 6.093"             | 76"                         | 26.65"      | 30.00"                    | 33.35"      | 41.088"     | 44.440"     | 47.793"     | 14.440"           |

## Special Radius Elbows

Perma-Cote factory bent elbows are also available in larger than standard radii to accommodate your special needs. Simply follow the four steps for standard radius elbows on the previous page, then continue with Steps 5 and 6 for large radius elbows. Refer to the table below to determine which radius is available for the size of conduit you need.

To use the Long or Special Radius Elbow table, find the elbow radius required in the first row. Then look down the column to determine which conduit sizes are available in that radius. Use this information in Steps 5 and 6 on the previous page to build a catalog number.

| Radius<br>in<br>Inches     | 12"           | 15"      | 18"    | 18"                | 24"              | 24"                | 30"            | 30"            | 36"              | 36"       | 36"      | 42"  | 42"  | 48"                | 48"      | 48"      |
|----------------------------|---------------|----------|--------|--------------------|------------------|--------------------|----------------|----------------|------------------|-----------|----------|------|------|--------------------|----------|----------|
| E Offset                   | 1'5-1/2"      | 1'9-1/4" | 2'1/4" | 2'3"               | 2'8"             | 2'10"              | 3'4"           | 3'5"           | 3'11"            | 3'11-1/4" | 4'3-1/4" | 4'5" | 4'6" | 5'1/4"             | 5'1-1/4" | 5'3-1/4" |
| Nipple<br>Length           | 2'6"          | 3'0"     | 3'5"   | 3'10"              | 4'6"             | 4'9"               | 5'6"           | 5'9"           | 6'7"             | 6'7"      | 7'3"     | 7'4" | 7'6" | 8'4"               | 8'6"     | 8'10"    |
| Tangent                    | 5-1/2"        | 6-1/4"   | 6-1/4" | 9"                 | 8"               | 10"                | 10"            | 11"            | 11"              | 11-1/4"   | 15-1/4"  | 11"  | 12"  | 12-1/4"            | 13-1/4"  | 15-1/4"  |
| Available<br>Pipe<br>Sizes | 1"<br>&<br>2" | 2"       | 1"     | 1-1/2"<br>to<br>3" | 3/4"<br>to<br>2" | 2-1/2"<br>to<br>5" | 2"<br>to<br>3" | 4"<br>to<br>5" | 3/4"<br>to<br>4" | 5"        | 6"       | 4"   | 5"   | 1-1/2"<br>to<br>4" | 5"       | 6"       |



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## Cast Device Boxes

### Description:

Perma-Cote device boxes and covers are available in several configurations and may be used in coated conduit systems to accommodate wiring devices, to serve as pull boxes for conductors, or to allow for splices and taps in conductors. Covers are available separately. Electrical continuity of the conduit system is maintained across assembled joints.

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 3 trade sizes from 1/2" through 1"
- Available in Standard (FS) and Deep (FD) Styles
- Internal grounding screw is standard
- Sealing sleeves on all conduit openings

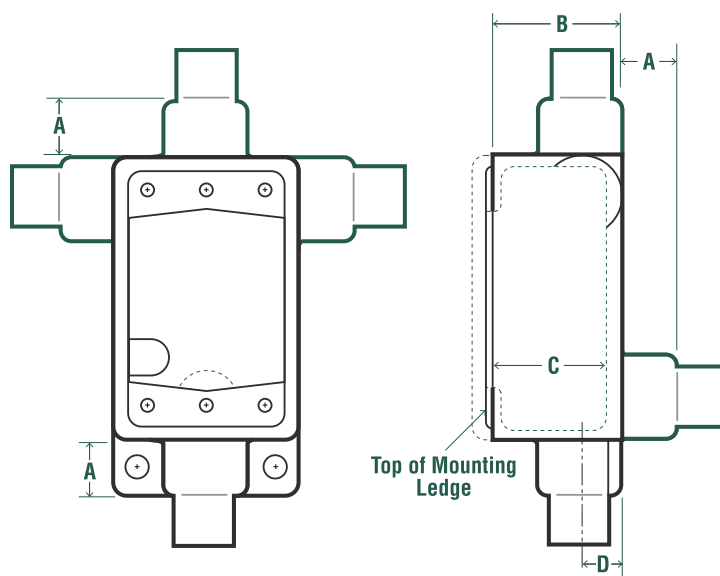
### Standards:

#### Steel and Aluminum

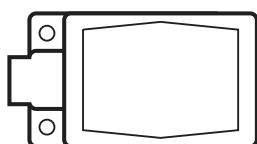
- UL 514A, 514D (E231035)
- CSA C22.2 No. 18, CSA C22.2 No. 42

# Cast Device Boxes – Single Gang

## Single Gang FS/FD Series – Technical Data

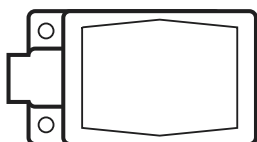


All configurations offered in both 'FS' or 'FD' box depths. FS prefix: Shallow configuration, FD prefix: Deep configuration



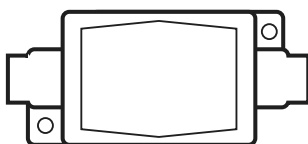
### FS SERIES (SHALLOW BOX) – SINGLE GANG DEAD END

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|------|------|--------------------|
| 1/2"      | FS-1-50           | 3.2            | 0.88 | 1.92 | 1.69 | 0.67 | FS-1-50-A*         |
| 3/4"      | FS-1-75           | 3.3            | 0.75 | 1.92 | 1.69 | 0.79 | FS-1-75-A*         |
| 1"        | FS-1-100          | 3.5            | 1.00 | 1.92 | 1.69 | 0.92 | FS-1-100-A*        |



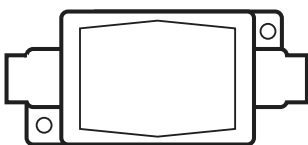
### FD SERIES (DEEP BOX) – SINGLE GANG DEAD END

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C   | D    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|-----|------|--------------------|
| 1/2"      | FD-1-50           | 2.7            | 0.88 | 2.69 | 2.5 | 0.67 | FD-1-50-A*         |
| 3/4"      | FD-1-75           | 2.8            | 0.75 | 2.69 | 2.5 | 0.79 | FD-1-75-A*         |
| 1"        | FD-1-100          | 3.1            | 1.00 | 2.69 | 2.5 | 0.92 | FD-1-100-A*        |



### FSC SERIES (SHALLOW BOX) – SINGLE GANG THROUGH FEED

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|------|------|--------------------|
| 1/2"      | FSC-1-50          | 2.2            | 0.88 | 1.92 | 1.69 | 0.67 | FSC-1-50-A*        |
| 3/4"      | FSC-1-75          | 2.4            | 0.88 | 1.92 | 1.69 | 0.79 | FSC-1-75-A*        |
| 1"        | FSC-1-100         | 2.7            | 1.00 | 1.92 | 1.69 | 0.92 | FSC-1-100-A*       |



### FDC SERIES (DEEP BOX) – SINGLE GANG THROUGH FEED

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C   | D    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|-----|------|--------------------|
| 1/2"      | FDC-1-50          | 2.7            | 0.88 | 2.69 | 2.5 | 0.67 | FDC-1-50-A*        |
| 3/4"      | FDC-1-75          | 2.8            | 0.88 | 2.69 | 2.5 | 0.79 | FDC-1-75-A*        |
| 1"        | FDC-1-100         | 3.1            | 1.00 | 2.69 | 2.5 | 0.92 | FDC-1-100-A*       |

\* Available in copper free aluminum

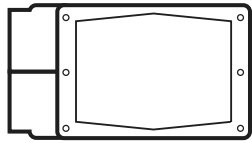


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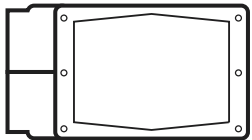
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## Single Gang FS/FD Series – Technical Data



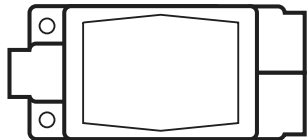
### FSS SERIES

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|------|------|--------------------|
| 1/2"      | FSS1              | 3.2            | 0.88 | 1.92 | 1.69 | 0.67 | FSS1-A*            |
| 3/4"      | FSS2              | 3.3            | 0.88 | 1.92 | 1.69 | 0.79 | FSS2-A*            |
| 1"        | FSS3              | 3.5            | 1.00 | 1.92 | 1.69 | 0.92 | -                  |



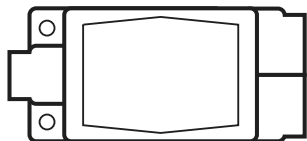
### FDD SERIES

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C   | D    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|-----|------|--------------------|
| 1/2"      | FDD-1-50          | 2.7            | 0.88 | 2.69 | 2.5 | 0.67 | -                  |
| 3/4"      | FDD-1-75          | 2.8            | 0.88 | 2.69 | 2.5 | 0.79 | FDD-1-75-A*        |
| 1"        | FDD-1-100         | 3.1            | 1.00 | 2.69 | 2.5 | 0.92 | -                  |



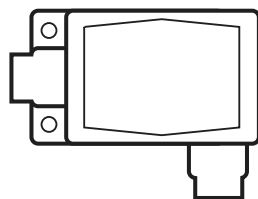
### FSCC SERIES

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    |
|-----------|-----------|----------------|------|------|------|------|
| 1/2"      | FSCC-1-50 | 2.0            | 0.88 | 1.92 | 1.69 | 0.67 |
| 3/4"      | FSCC-1-75 | 2.2            | 0.88 | 1.92 | 1.69 | 0.79 |



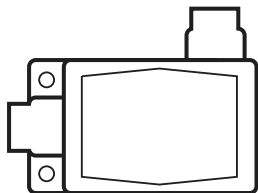
### FDCC SERIES

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C   | D    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|-----|------|--------------------|
| 1/2"      | FDCC-1-50         | 2.7            | 0.88 | 2.69 | 2.5 | 0.67 | FDCC-1-50-A*       |
| 3/4"      | FDCC-1-75         | 2.8            | 0.88 | 2.69 | 2.5 | 0.79 | FDCC-1-75-A*       |



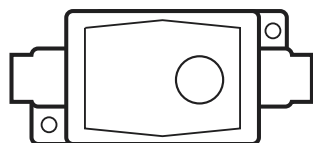
### FDL SERIES

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C   | D    |
|-----------|-----------|----------------|------|------|-----|------|
| 1/2"      | FDL-1-50  | 3.1            | 0.88 | 2.69 | 2.5 | 0.67 |
| 3/4"      | FDL-1-75  | 3.3            | 0.88 | 2.69 | 2.5 | 0.79 |



### FDR SERIES

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C   | D    |
|-----------|-----------|----------------|------|------|-----|------|
| 1/2"      | FDR-1-50  | 3.2            | 0.88 | 2.69 | 2.5 | 0.67 |
| 3/4"      | FDR-1-75  | 3.3            | 0.88 | 2.69 | 2.5 | 0.79 |



### FSCA SERIES

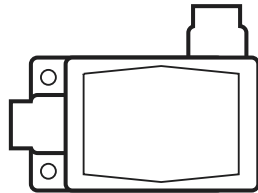
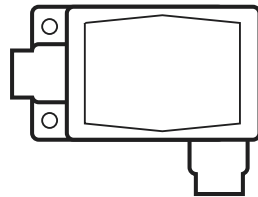
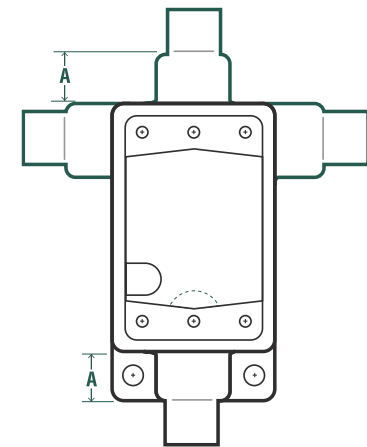
| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    |
|-----------|-----------|----------------|------|------|------|------|
| 1/2"      | FSCA-1-50 | 2.5            | 0.88 | 1.92 | 1.69 | 0.67 |
| 3/4"      | FSCA-1-75 | 3.5            | 0.88 | 1.92 | 1.69 | 0.79 |

\* Available in copper free aluminum



# Cast Device Boxes – Single Gang

## Single Gang FS/FD Series – Technical Data *(continued)*



### FSL SERIES

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    |
|-----------|-----------|----------------|------|------|------|------|
| 1/2"      | FSL-1-50  | 2.5            | 0.88 | 1.92 | 1.69 | 0.67 |
| 3/4"      | FSL-1-75  | 2.7            | 0.88 | 1.92 | 1.69 | 0.79 |

### FSR SERIES

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    |
|-----------|-----------|----------------|------|------|------|------|
| 1/2"      | FSR-1-50  | 2.0            | 0.88 | 1.92 | 1.69 | 0.67 |
| 3/4"      | FSR-1-75  | 2.2            | 0.88 | 1.92 | 1.69 | 0.79 |

### FDCT SERIES

| PIPE SIZE | CATALOG #  | NOMINAL WEIGHT | A    | B    | C   | D    |
|-----------|------------|----------------|------|------|-----|------|
| 1/2"      | FDCT-1-50  | 3.1            | 0.88 | 2.69 | 2.5 | 0.67 |
| 3/4"      | FDCT-1-75  | 3.4            | 0.88 | 2.69 | 2.5 | 0.79 |
| 1"        | FDCT-1-100 | 3.9            | 1.00 | 2.69 | 2.5 | 0.92 |

### FSCT SERIES

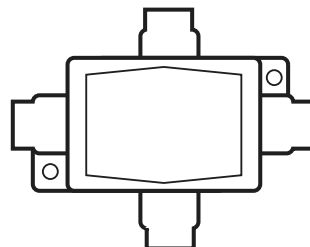
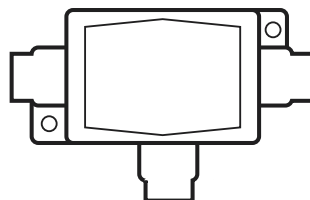
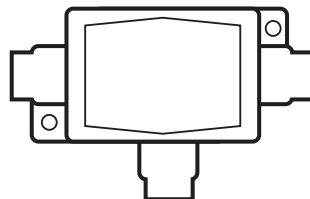
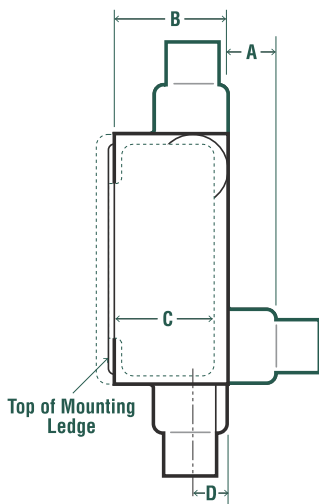
| PIPE SIZE | CATALOG #  | NOMINAL WEIGHT | A    | B    | C    | D    |
|-----------|------------|----------------|------|------|------|------|
| 1/2"      | FSCT-1-50  | 2.2            | 0.88 | 1.92 | 1.69 | 0.67 |
| 3/4"      | FSCT-1-75  | 2.5            | 0.88 | 1.92 | 1.69 | 0.79 |
| 1"        | FSCT-1-100 | 2.8            | 1.00 | 1.92 | 1.69 | 0.92 |

### FSX SERIES

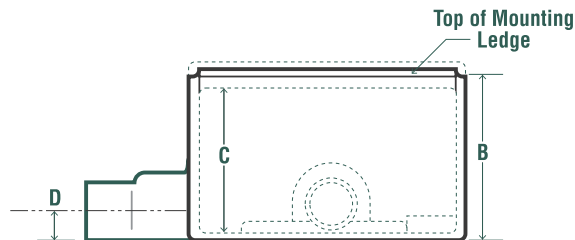
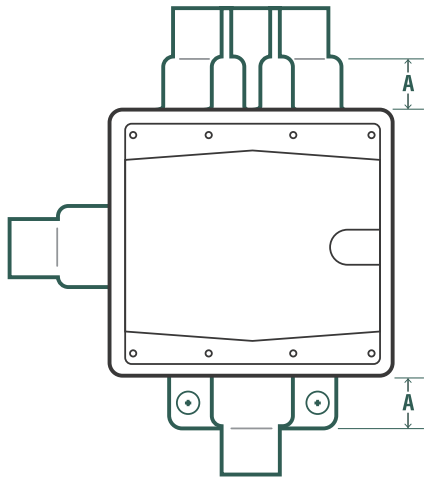
| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    |
|-----------|-----------|----------------|------|------|------|------|
| 1/2"      | FSX1      | 2.5            | 0.88 | 1.92 | 1.69 | 0.67 |
| 3/4"      | FSX2      | 2.7            | 0.88 | 1.92 | 1.69 | 0.79 |

### FDX SERIES

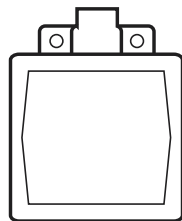
| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C   | D    |
|-----------|-----------|----------------|------|------|-----|------|
| 1/2"      | FDX1      | 2.5            | 0.88 | 2.69 | 2.5 | 0.67 |
| 3/4"      | FDX2      | 2.7            | 0.88 | 2.69 | 2.5 | 0.79 |
| 1"        | FDX3      | 2.5            | 1.00 | 2.69 | 2.5 | 0.67 |



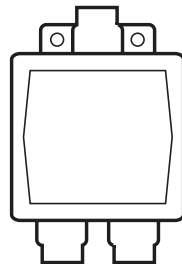
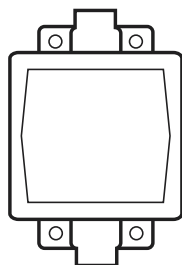
## Two Gang FS/FD Series – Technical Data



All configurations offered in both 'FS' or 'FD' box depths. FS prefix: Shallow configuration, FD prefix: Deep configuration



**FS/FD**  
(Two Gang)



### FS SERIES (SHALLOW BOX) – TWO GANG DEAD END

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|------|------|--------------------|
| 1/2"      | FS-2-50           | 3.3            | 0.88 | 1.92 | 1.69 | 0.67 | FS-2-50-A*         |
| 3/4"      | FS-2-75           | 3.4            | 0.88 | 1.92 | 1.69 | 0.79 | FS-2-75-A*         |
| 1"        | FS-2-100          | 3.6            | 1.00 | 1.92 | 1.69 | 0.92 | -                  |

### FD SERIES (DEEP BOX) – TWO GANG

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C   | D    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|-----|------|--------------------|
| 1/2"      | FD12              | 3.3            | 0.88 | 2.69 | 2.5 | 0.67 | -                  |
| 3/4"      | FD22              | 3.3            | 0.88 | 2.69 | 2.5 | 0.79 | FD22-A*            |
| 1"        | FD32              | 3.6            | 1.00 | 2.69 | 2.5 | 0.92 | -                  |

### FSC SERIES (SHALLOW BOX) – TWO GANG THROUGH FEED

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    |
|-----------|-------------------|----------------|------|------|------|------|
| 1/2"      | FSC-2-50          | 3.3            | 0.88 | 1.92 | 1.69 | 0.67 |
| 3/4"      | FSC-2-75          | 3.6            | 0.88 | 1.92 | 1.69 | 0.79 |
| 1"        | FSC-2-100         | 4.0            | 1.00 | 1.92 | 1.69 | 0.92 |

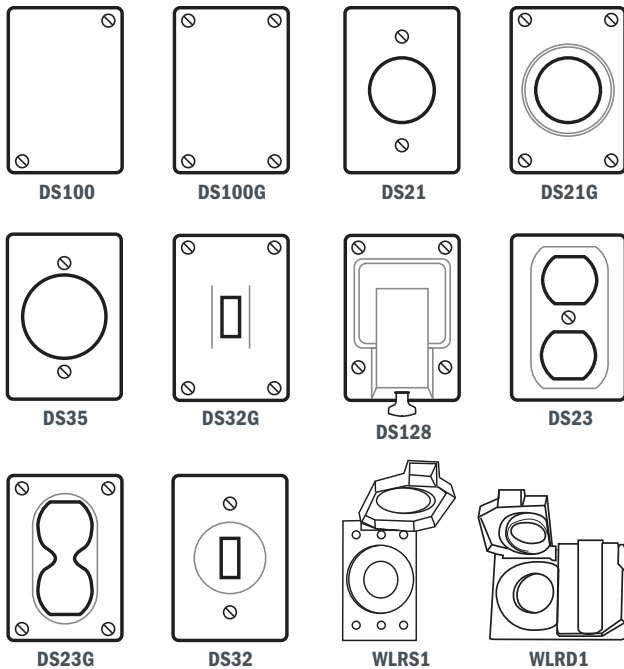
### FSD SERIES

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    | 2 BOTTOM HUBS |
|-----------|-----------|----------------|------|------|------|------|---------------|
| 3/4"      | FSD-2-75  | 2.5            | 0.88 | 2.69 | 1.69 | 0.79 | 1/2"          |

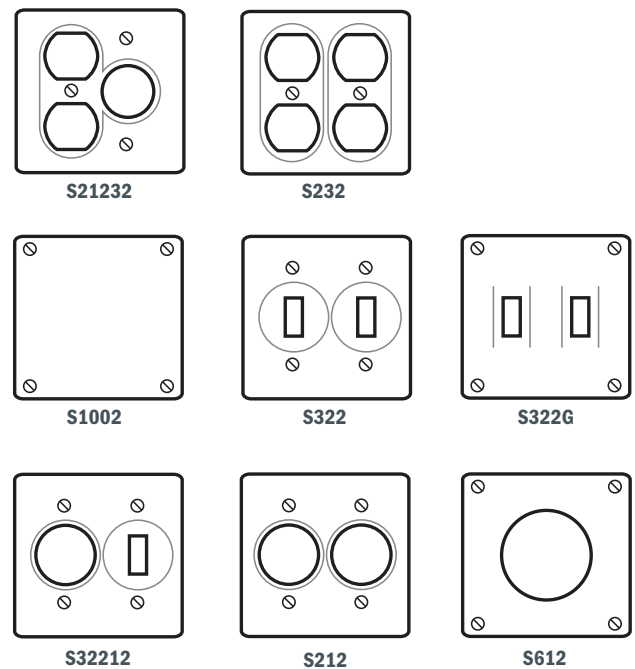
\* Available in copper free aluminum

# Cast Device Box Covers

## FS/FD SINGLE GANG COVER CONFIGURATIONS



## FS/FD 2 GANG COVER CONFIGURATIONS



## FERROUS COVERS - ONE GANG

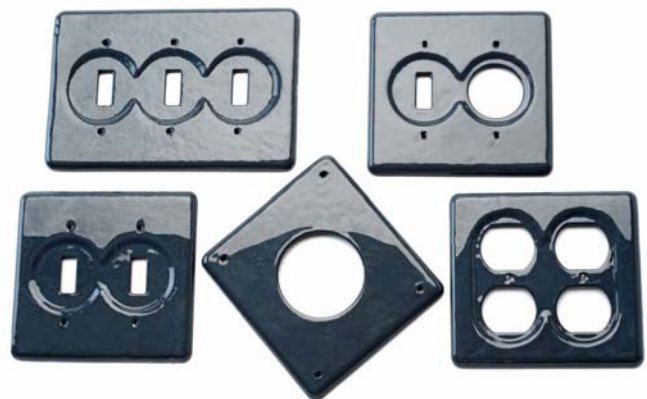
| CATALOG # | DESCRIPTION                                   | NOMINAL WEIGHT |
|-----------|-----------------------------------------------|----------------|
| DS32      | GENERAL USE SNAP ON OR TOGGLE (S)             | 0.4            |
| DS23G     | DUPLEX CONVENIENCE RECEPTACLE (S,F)           | 0.4            |
| DS35      | PLUG RECEPTACLE 1 5/8" DIAMETER (S)           | 0.4            |
| DS21      | 3P 2W GROUNDING ROUND FLUSH RECEPTACLES (S)   | 0.3            |
| DS21G     | 3P 2W GROUNDING ROUND FLUSH RECEPTACLES (S,F) | 0.3            |
| DS23      | DUPLEX CONVENIENCE RECEPTACLE (S)             | 0.3            |
| DS32G     | SQUARE HANDLE SNAP OR TOGGLE (S, F)           | 0.4            |

## FERROUS COVERS - TWO GANG

| CATALOG # | DESCRIPTION                           | NOMINAL WEIGHT |
|-----------|---------------------------------------|----------------|
| S1002     | BLANK COVER SHEET STEEL (S)           | 1.0            |
| S1002G    | BLANK COVER IRON ALLOY (S,F)          | 1.0            |
| S21232    | ROUND RECEPTACLE + DUPLEX CONVENIENCE | 1.2            |
| S232      | DUPLEX CONVENIENCE (S)                | 1.2            |
| S322      | SNAP SWITCH (S)                       | 1.0            |
| S32212    | ROUND RECEPTACLE + SNAP SWITCH (S)    | 1.2            |
| S212      | TWO ROUND RECEPTACLES (S)             | 2.0            |
| S612      | 20 AMP, 250 VOLT RECEPTACLE (S)       | 1.2            |
| S322G     | SNAP SWITCHES IRON ALLOY (S,F)        | 1.2            |

## ALUMINUM COVERS - ONE GANG

| CATALOG # | DESCRIPTION                                 | NOMINAL WEIGHT |
|-----------|---------------------------------------------|----------------|
| DS23SA    | DUPLEX CONVENIENCE RECEPTACLE (S)           | 0.1            |
| DS100     | BLANK COVER (S)                             | 0.1            |
| DS128     | SNAP SWITCH                                 | 0.5            |
| DS100G    | BLANK COVER CAST (S,F)                      | 0.3            |
| WLRD1     | SPRING DOOR DUPLEX COVER 1 3/8" (F)         | 0.4            |
| WLRs1     | SPRING DOOR SINGLE COVER 1 3/8" (F)         | 0.3            |
| WLRs2     | SPRING DOOR SINGLE COVER 1 1/2" (F)         | 0.3            |
| WLGf-FS   | SPRING DOOR COVER FOR GFCI (S) - Horizontal | 0.5            |
| WLGf-FSV  | SPRING DOOR COVER FOR GFCI (S) - Vertical   | 0.5            |
| WLGf      | SPRING DOOR COVER FOR GFCI (F) - Horizontal | 0.5            |



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## Conduit Bodies and Covers for General Service Locations

### Description:

Perma-Cote conduit bodies with covers are offered in Form 8 and Form 7 styles, each with numerous configurations to provide a complete coated conduit system. May be used to make 90° bends, for pull outlets, to provide for taps or splices, to act as a mounting outlet for wiring devices or lighting fixtures, etc. Form 8 style fittings 1/2" – 2" have an integral V-Seal gasket for superior corrosion protection. Electrical continuity of the conduit system is maintained across assembled joints.

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 10 trade sizes from 1/2" through 4"
- Sealing sleeves on all conduit openings
- Form 7 style cover uses retained stainless screw and wedge clip design
- Form 8 style cover uses plastic encapsulated stainless steel screws with retainers built into covers for trade sizes 1/2" through 2"
- Integral V-Seal gasket on Form 8 style, sizes 1/2" through 2"

### Standards:

#### Steel and Aluminum

- UL 514A, 514D (E231035)
- CSA C22.2 No. 18, CSA C22.2 No. 42

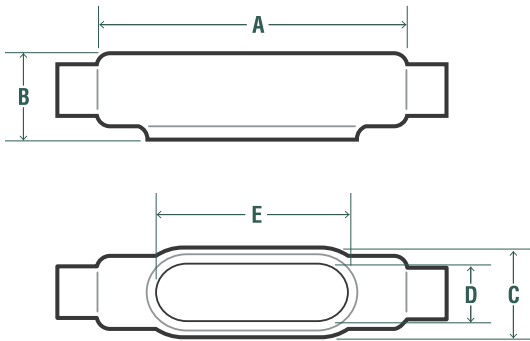
*Note: Form 7 fittings are not available with encapsulated screws.*

*All cover screws are stainless steel.*



# Conduit Bodies and Covers

## Conduit Bodies Technical Data



### C FORM 7

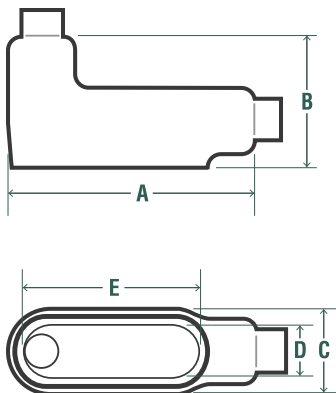
| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|------|------|------|--------------------|
| 1/2"      | C17               | 1.0            | 5.38  | 1.42 | 1.46 | 0.94 | 3.19 | C17-A              |
| 3/4"      | C27               | 1.4            | 6.00  | 1.67 | 1.64 | 1.13 | 3.81 | C27-A              |
| 1"        | C37               | 2.2            | 7.00  | 1.92 | 1.83 | 1.38 | 4.50 | C37-A              |
| 1-1/4"    | C47               | 2.7            | 7.44  | 2.35 | 2.27 | 1.75 | 5.00 | C47-A              |
| 1-1/2"    | C57               | 4.0            | 8.19  | 2.60 | 2.52 | 1.94 | 5.44 | C57-A              |
| 2"        | C67               | 5.5            | 9.19  | 3.17 | 3.08 | 2.44 | 6.38 | C67-A              |
| 2-1/2"    | C77               | 10.0           | 12.00 | 3.67 | 4.33 | 3.56 | 8.38 | C77-A              |
| 3"        | C87               | 11.8           | 11.75 | 4.42 | 4.33 | 3.56 | 8.38 | C87-A              |

### C FORM 8

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E     |
|-----------|-------------------|----------------|-------|------|------|------|-------|
| 1/2"      | C50               | 2.0            | 5.69  | 1.48 | 1.46 | 1.00 | 3.31  |
| 3/4"      | C75               | 2.3            | 6.28  | 1.73 | 1.27 | 1.19 | 3.94  |
| 1"        | C100              | 2.8            | 7.31  | 1.98 | 1.83 | 1.38 | 4.56  |
| 1-1/4"    | C125              | 4.5            | 8.50  | 2.42 | 2.27 | 1.75 | 5.31  |
| 1-1/2"    | C150              | 6.5            | 10.38 | 2.82 | 2.83 | 2.13 | 6.50  |
| 2"        | C200              | 10.3           | 12.25 | 3.60 | 3.83 | 3.00 | 8.56  |
| 2-1/2"    | C250              | 18.0           | 15.63 | 4.48 | 5.08 | 4.25 | 10.88 |
| 3"        | C300              | 20.5           | 15.63 | 4.85 | 5.08 | 4.25 | 10.88 |

### C MARK 9

| PIPE SIZE | NOMINAL WEIGHT | A     | B    | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|----------------|-------|------|------|------|-------|--------------------|
| 1/2"      | 2.0            | 5.00  | 1.42 | 1.46 | 1.19 | 3.31  | C50-A              |
| 3/4"      | 2.3            | 5.69  | 1.67 | 1.64 | 1.38 | 3.94  | C75-A              |
| 1"        | 2.8            | 6.59  | 1.92 | 1.83 | 1.50 | 4.56  | C100-A             |
| 1-1/4"    | 4.5            | 7.50  | 2.54 | 2.27 | 1.94 | 5.31  | C125-A             |
| 1-1/2"    | 6.5            | 8.25  | 2.79 | 2.58 | 2.25 | 6.00  | C150-A             |
| 2"        | 10.3           | 10.50 | 3.48 | 3.27 | 2.88 | 8.06  | C200-A             |
| 2-1/2"    | 18.0           | 15.63 | 4.48 | 5.08 | 4.25 | 10.88 | C250-A             |
| 3"        | 20.5           | 15.63 | 4.85 | 5.08 | 4.25 | 10.88 | C300-A             |
| 3-1/2"    | 10.0           | 18.75 | 5.73 | 6.33 | 5.44 | 13.44 | C350               |
| 4"        | 12.0           | 18.75 | 5.98 | 6.33 | 5.44 | 13.44 | C400               |



### LB FORM 7

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|------|------|-------|--------------------|
| 1/2"      | LB17              | 1.1            | 4.60  | 2.25 | 1.46 | 0.94 | 3.19  | LB17-A             |
| 3/4"      | LB27              | 1.7            | 5.24  | 2.50 | 1.64 | 1.13 | 3.81  | LB27-A             |
| 1"        | LB37              | 2.2            | 6.04  | 2.88 | 1.83 | 1.38 | 4.50  | LB37-A             |
| 1-1/4"    | LB47              | 3.1            | 6.54  | 3.31 | 2.27 | 1.75 | 5.00  | LB47-A             |
| 1-1/2"    | LB57              | 3.8            | 7.17  | 3.69 | 2.52 | 1.94 | 5.44  | LB57-A             |
| 2"        | LB67              | 5.2            | 8.17  | 4.25 | 3.08 | 2.44 | 6.38  | LB67-A             |
| 2-1/2"    | LB777             | 10.0           | 10.54 | 5.13 | 4.33 | 3.56 | 8.38  | LB777-A            |
| 3"        | LB87              | 13.0           | 10.54 | 5.88 | 4.33 | 3.56 | 8.38  | LB87-A             |
| 3-1/2"    | LB97              | 19.0           | 12.73 | 6.56 | 5.33 | 4.50 | 10.25 | LB97-A             |
| 4"        | LB107             | 18.5           | 12.73 | 7.06 | 5.33 | 4.50 | 10.25 | LB107-A            |

### LB FORM 8

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E     |
|-----------|-------------------|----------------|-------|------|------|------|-------|
| 1/2"      | LB50              | 1.5            | 4.98  | 2.22 | 1.46 | 1.00 | 3.31  |
| 3/4"      | LB75              | 2.0            | 5.60  | 2.44 | 1.64 | 1.19 | 3.94  |
| 1"        | LB100             | 2.9            | 6.51  | 2.81 | 1.83 | 1.38 | 4.56  |
| 1-1/4"    | LB125             | 4.1            | 7.57  | 3.34 | 2.27 | 1.75 | 5.31  |
| 1-1/2"    | LB150             | 6.5            | 9.17  | 4.03 | 2.83 | 2.13 | 6.50  |
| 2"        | LB200             | 8.2            | 11.04 | 4.81 | 3.83 | 3.00 | 8.56  |
| 2-1/2"    | LB250             | 18.2           | 13.98 | 6.13 | 5.08 | 4.25 | 10.88 |
| 3"        | LB300             | 21.2           | 13.98 | 6.50 | 5.08 | 4.25 | 10.88 |
| 3-1/2"    | LB350             | 31.2           | 16.92 | 7.56 | 6.33 | 5.44 | 13.44 |
| 4"        | LB400             | 32.0           | 16.92 | 7.81 | 6.33 | 5.44 | 13.44 |

### LB MARK 9

| PIPE SIZE | NOMINAL WEIGHT | A     | B    | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|----------------|-------|------|------|------|-------|--------------------|
| 1/2"      | 1.5            | 4.63  | 2.13 | 1.46 | 1.19 | 3.31  | LB50-A             |
| 3/4"      | 2.0            | 5.29  | 2.41 | 1.64 | 1.38 | 3.94  | LB75-A             |
| 1"        | 2.9            | 6.13  | 2.84 | 1.83 | 1.50 | 4.56  | LB100-A            |
| 1-1/4"    | 4.1            | 7.07  | 3.47 | 2.27 | 1.94 | 5.31  | LB125-A            |
| 1-1/2"    | 6.5            | 7.79  | 3.75 | 2.58 | 2.25 | 6.00  | LB150-A            |
| 2"        | 8.2            | 10.07 | 4.47 | 3.27 | 2.88 | 8.06  | LB200-A            |
| 2-1/2"    | 18.2           | 13.98 | 6.13 | 5.08 | 4.25 | 10.88 | LB250-A            |
| 3"        | 21.2           | 13.98 | 6.50 | 5.08 | 4.25 | 10.88 | LB300-A            |
| 3-1/2"    | 31.2           | 16.92 | 7.56 | 6.33 | 5.44 | 13.44 | LB350-A            |
| 4"        | 32.0           | 16.92 | 7.81 | 6.33 | 5.44 | 13.44 | LB400-A            |

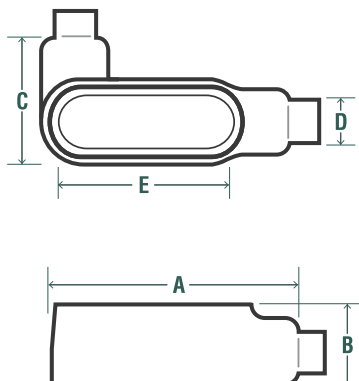


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## Conduit Bodies Technical Data



### LL FORM 8

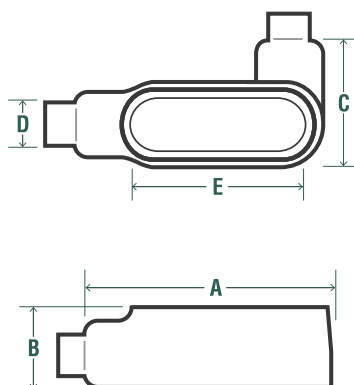
| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E     |
|-----------|-------------------|----------------|-------|------|------|------|-------|
| 1/2"      | LL50              | 1.4            | 4.98  | 1.48 | 2.20 | 1.00 | 3.31  |
| 3/4"      | LL75              | 2.1            | 5.60  | 1.73 | 2.35 | 1.19 | 3.94  |
| 1"        | LL100             | 2.6            | 6.51  | 1.98 | 2.67 | 1.38 | 4.56  |
| 1-1/4"    | LL125             | 4.2            | 7.61  | 2.42 | 3.20 | 1.75 | 5.31  |
| 1-1/2"    | LL150             | 6.2            | 9.17  | 2.82 | 4.04 | 2.13 | 6.50  |
| 2"        | LL200             | 10.5           | 11.04 | 3.60 | 5.04 | 3.00 | 8.56  |
| 2-1/2"    | LL250             | 19.0           | 13.98 | 4.48 | 6.73 | 4.25 | 10.88 |
| 3"        | LL300             | 21.5           | 13.98 | 4.85 | 6.73 | 4.25 | 10.88 |

### LL FORM 7

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|------|------|-------|--------------------|
| 1/2"      | LL17              | 1.2            | 4.60  | 1.42 | 2.29 | 0.94 | 3.19  | LL17-A             |
| 3/4"      | LL27              | 1.6            | 5.23  | 1.67 | 2.48 | 1.13 | 3.81  | LL27-A             |
| 1"        | LL37              | 2.1            | 6.04  | 1.92 | 2.79 | 1.38 | 4.50  | LL37-A             |
| 1-1/4"    | LL47              | 3.0            | 6.54  | 2.35 | 3.23 | 1.75 | 5.00  | LL47-A             |
| 1-1/2"    | LL57              | 4.1            | 7.17  | 2.60 | 3.60 | 1.94 | 5.44  | LL57-A             |
| 2"        | LL67              | 5.7            | 8.17  | 3.17 | 4.17 | 2.44 | 6.38  | LL67-A             |
| 2-1/2"    | LL77              | 10.0           | 10.54 | 3.67 | 5.79 | 3.56 | 8.38  | LL77-A             |
| 3"        | LL87              | 12.7           | 10.54 | 4.42 | 5.79 | 3.56 | 8.38  | LL87-A             |
| 3-1/2"    | LL97              | 19.0           | 12.73 | 4.92 | 6.98 | 4.50 | 10.25 | LL97-A             |
| 4"        | LL107             | 19.0           | 12.73 | 5.42 | 6.98 | 4.50 | 10.25 | LL107-A            |

### LL MARK 9

| PIPE SIZE | NOMINAL WEIGHT | A     | B    | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|----------------|-------|------|------|------|-------|--------------------|
| 1/2"      | 1.4            | 4.63  | 1.42 | 2.17 | 1.19 | 3.31  | LL50-A             |
| 3/4"      | 2.1            | 5.29  | 1.67 | 2.42 | 1.38 | 3.94  | LL75-A             |
| 1"        | 2.6            | 6.13  | 1.92 | 2.67 | 1.50 | 4.56  | LL100-A            |
| 1-1/4"    | 4.2            | 7.07  | 2.54 | 3.13 | 1.94 | 5.31  | LL125-A            |
| 1-1/2"    | 6.2            | 7.79  | 2.79 | 3.48 | 2.25 | 6.00  | LL150-A            |
| 2"        | 10.5           | 10.07 | 3.48 | 4.17 | 2.88 | 8.06  | LL200-A            |
| 2-1/2"    | 19.0           | 13.98 | 4.48 | 6.73 | 4.25 | 10.88 | LL250-A            |
| 3"        | 21.5           | 13.98 | 4.85 | 6.73 | 4.25 | 10.88 | LL300-A            |
| 3-1/2"    | 21.5           | 16.92 | 5.73 | 8.17 | 5.44 | 13.44 | LL350              |
| 4"        | 24.5           | 16.92 | 5.98 | 8.17 | 5.44 | 13.44 | LL400              |



### LR FORM 8

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E     |
|-----------|-------------------|----------------|-------|------|------|------|-------|
| 1/2"      | LR50              | 1.4            | 4.98  | 1.48 | 2.20 | 1.00 | 3.31  |
| 3/4"      | LR75              | 2.1            | 5.60  | 1.73 | 2.35 | 1.19 | 3.94  |
| 1"        | LR100             | 2.6            | 6.51  | 1.98 | 2.67 | 1.38 | 4.56  |
| 1-1/4"    | LR125             | 4.5            | 7.61  | 2.42 | 3.20 | 1.75 | 5.31  |
| 1-1/2"    | LR150             | 6.2            | 9.17  | 2.82 | 4.04 | 2.13 | 6.50  |
| 2"        | LR200             | 10.7           | 11.04 | 3.60 | 5.04 | 3.00 | 8.56  |
| 2-1/2"    | LR250             | 17.7           | 13.98 | 4.48 | 6.73 | 4.25 | 10.88 |
| 3"        | LR300             | 18.0           | 13.98 | 4.85 | 6.73 | 4.25 | 10.88 |

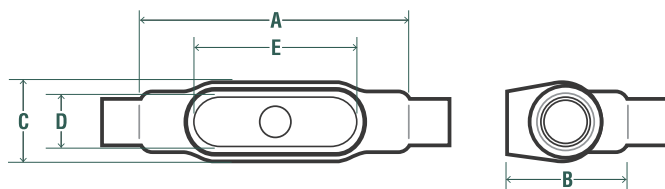
### LR FORM 7

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|------|------|-------|--------------------|
| 1/2"      | LR17              | 1.2            | 4.60  | 1.42 | 2.29 | 0.94 | 3.19  | LR17-A             |
| 3/4"      | LR27              | 1.6            | 5.23  | 1.67 | 2.48 | 1.13 | 3.81  | LR27-A             |
| 1"        | LR37              | 2.1            | 6.04  | 1.92 | 2.79 | 1.38 | 4.50  | LR37-A             |
| 1-1/4"    | LR47              | 3.0            | 6.54  | 2.35 | 3.23 | 1.75 | 5.00  | LR47-A             |
| 1-1/2"    | LR57              | 4.1            | 7.17  | 2.60 | 3.60 | 1.94 | 5.44  | LR57-A             |
| 2"        | LR67              | 5.7            | 8.17  | 3.17 | 4.17 | 2.44 | 6.38  | LR67-A             |
| 2-1/2"    | LR77              | 10.0           | 10.54 | 3.67 | 5.79 | 3.56 | 8.38  | LR77-A             |
| 3"        | LR87              | 12.7           | 10.54 | 4.42 | 5.79 | 3.56 | 8.38  | LR87-A             |
| 3-1/2"    | LR97              | 19.0           | 12.73 | 4.92 | 6.98 | 4.50 | 10.25 | LR97-A             |
| 4"        | LR107             | 19.0           | 12.73 | 5.42 | 6.98 | 4.50 | 10.25 | LR107-A            |

### LR MARK 9

| PIPE SIZE | NOMINAL WEIGHT | A     | B    | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|----------------|-------|------|------|------|-------|--------------------|
| 1/2"      | 1.4            | 4.63  | 1.42 | 2.17 | 1.19 | 3.31  | LR50-A             |
| 3/4"      | 2.1            | 5.29  | 1.67 | 2.42 | 1.38 | 3.94  | LR75-A             |
| 1"        | 2.6            | 6.13  | 1.92 | 2.67 | 1.50 | 4.56  | LR100-A            |
| 1-1/4"    | 4.5            | 7.07  | 2.54 | 3.13 | 1.94 | 5.31  | LR125-A            |
| 1-1/2"    | 6.2            | 7.79  | 2.79 | 3.48 | 2.25 | 6.00  | LR150-A            |
| 2"        | 10.7           | 10.07 | 3.48 | 4.17 | 2.88 | 8.06  | LR200-A            |
| 2-1/2"    | 17.7           | 13.98 | 4.48 | 6.73 | 4.25 | 10.88 | LR250-A            |
| 3"        | 18.0           | 13.98 | 4.85 | 6.73 | 4.25 | 10.88 | LR300-A            |
| 3-1/2"    | 21.0           | 16.92 | 5.73 | 8.17 | 5.44 | 13.44 | LR350              |
| 4"        | 24.0           | 16.92 | 5.98 | 8.17 | 5.44 | 13.44 | LR400              |

# Conduit Bodies and Covers



**TB FORM 8**

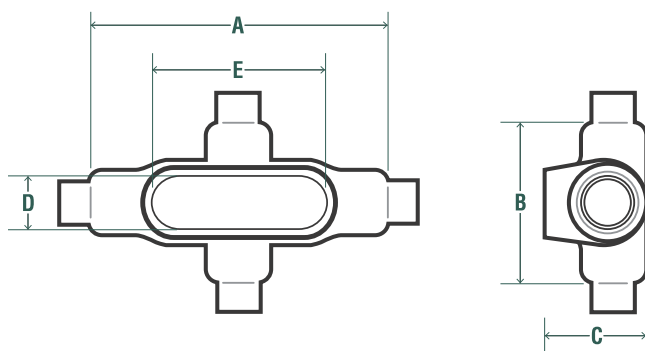
| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E    |
|-----------|-------------------|----------------|-------|------|------|------|------|
| 1/2"      | TB50              | 2.0            | 5.69  | 2.53 | 1.46 | 1.00 | 3.31 |
| 3/4"      | TB75              | 2.3            | 6.28  | 2.75 | 1.64 | 1.19 | 3.94 |
| 1"        | TB100             | 3.1            | 7.31  | 3.13 | 1.83 | 1.38 | 4.56 |
| 1-1/4"    | TB125             | 5.2            | 8.50  | 3.34 | 2.27 | 1.75 | 5.31 |
| 1-1/2"    | TB150             | 7.0            | 10.38 | 4.03 | 2.83 | 2.13 | 6.50 |
| 2"        | TB200             | 11.0           | 12.25 | 4.81 | 3.83 | 3.00 | 8.56 |

**TB FORM 7**

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    | E    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|------|------|------|--------------------|
| 1/2"      | TB17              | 1.6            | 5.63 | 2.63 | 1.64 | 0.94 | 3.19 | TB17-A             |
| 3/4"      | TB27              | 2.1            | 6.25 | 2.88 | 1.83 | 1.13 | 3.81 | TB27-A             |
| 1"        | TB37              | 2.7            | 7.25 | 3.25 | 2.08 | 1.38 | 4.50 | TB37-A             |
| 1-1/4"    | TB47              | 3.7            | 7.44 | 3.31 | 2.27 | 1.75 | 5.00 | TB47-A             |
| 1-1/2"    | TB57              | 4.7            | 8.19 | 5.00 | 2.52 | 1.94 | 5.44 | TB57-A             |
| 2"        | TB67              | 7.0            | 9.19 | 6.13 | 3.08 | 2.44 | 6.38 | TB67-A             |

**TB MARK 9**

| PIPE SIZE | NOMINAL WEIGHT | A     | B    | C    | D    | E    | ALUMINUM CATALOG # |
|-----------|----------------|-------|------|------|------|------|--------------------|
| 1/2"      | 2.0            | 5.00  | 2.13 | 1.46 | 1.19 | 3.31 | TB50-A             |
| 3/4"      | 2.3            | 5.69  | 2.41 | 1.64 | 1.38 | 3.94 | TB75-A             |
| 1"        | 3.1            | 6.59  | 2.84 | 1.83 | 1.50 | 4.56 | TB100-A            |
| 1-1/4"    | 5.2            | 7.50  | 3.47 | 2.27 | 1.94 | 5.31 | TB49               |
| 1-1/2"    | 7.0            | 8.34  | 3.88 | 2.58 | 2.16 | 5.88 | TB59               |
| 2"        | 11.0           | 10.63 | 4.59 | 3.30 | 2.81 | 8.09 | TB69               |



**X FORM 8**

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E    |
|-----------|-------------------|----------------|-------|------|------|------|------|
| 1/2"      | X50               | 2.0            | 5.69  | 2.91 | 1.79 | 1.00 | 3.31 |
| 3/4"      | X75               | 2.6            | 6.28  | 3.06 | 2.04 | 1.19 | 3.94 |
| 1"        | X100              | 3.1            | 7.31  | 3.50 | 2.29 | 1.38 | 4.56 |
| 1-1/4"    | X125              | 5.2            | 8.50  | 4.13 | 2.67 | 1.75 | 5.31 |
| 1-1/2"    | X150              | 7.5            | 10.38 | 5.25 | 2.51 | 2.13 | 6.50 |
| 2"        | X200              | 11.7           | 12.25 | 6.25 | 3.60 | 3.00 | 8.56 |

**X FORM 7**

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    | E    | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|------|------|------|--------------------|
| 1/2"      | X17               | 1.7            | 5.63 | 3.31 | 1.79 | 0.94 | 3.19 | X17-A              |
| 3/4"      | X27               | 2.4            | 6.25 | 3.50 | 2.04 | 1.13 | 3.81 | X27-A              |
| 1"        | X37               | 2.7            | 7.25 | 4.00 | 2.29 | 1.38 | 4.50 | X37-A              |
| 1-1/4"    | X47               | 3.6            | 7.44 | 4.13 | 2.35 | 1.75 | 5.00 | X47-A              |
| 1-1/2"    | X57               | 5.0            | 8.19 | 4.63 | 2.60 | 1.94 | 5.44 | X57-A              |
| 2"        | X67               | 7.5            | 9.19 | 5.19 | 3.17 | 2.44 | 6.38 | X67-A              |

**X MARK 9**

| PIPE SIZE | NOMINAL WEIGHT | A    | B    | C    | D    | E    | ALUMINUM CATALOG # |
|-----------|----------------|------|------|------|------|------|--------------------|
| 1/2"      | 2.0            | 5.69 | 2.91 | 1.79 | 1.00 | 3.31 | X50-A              |
| 3/4"      | 2.6            | 6.28 | 3.06 | 2.04 | 1.19 | 3.94 | X75-A              |
| 1"        | 3.1            | 7.31 | 3.50 | 2.29 | 1.38 | 4.56 | X100-A             |

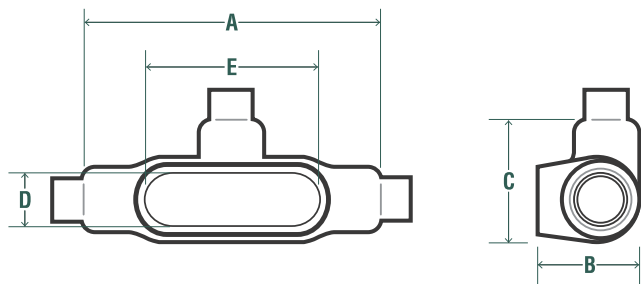


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## Conduit Bodies Technical Data



### T FORM 8

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E     |
|-----------|-------------------|----------------|-------|------|------|------|-------|
| 1/2"      | T50               | 1.8            | 5.69  | 1.79 | 2.20 | 1.00 | 3.31  |
| 3/4"      | T75               | 2.5            | 6.28  | 2.04 | 2.35 | 1.19 | 3.94  |
| 1"        | T100              | 3.3            | 7.31  | 2.29 | 2.67 | 1.38 | 4.56  |
| 1-1/4"    | T125              | 4.9            | 8.50  | 2.67 | 3.20 | 1.75 | 5.31  |
| 1-1/2"    | T150              | 7.5            | 10.38 | 2.82 | 4.04 | 2.13 | 6.50  |
| 2"        | T200              | 11.7           | 12.25 | 3.60 | 5.04 | 3.00 | 8.56  |
| 2-1/2"    | T250              | 19.8           | 15.63 | 4.48 | 6.73 | 4.25 | 10.88 |
| 3"        | T300              | 23.5           | 15.63 | 4.85 | 6.73 | 4.25 | 10.88 |

### T FORM 7

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|------|------|-------|--------------------|
| 1/2"      | T17               | 1.5            | 5.63  | 1.79 | 2.48 | 0.94 | 3.19  | T17-A              |
| 3/4"      | T27               | 2.1            | 6.25  | 2.04 | 2.67 | 1.13 | 3.81  | T27-A              |
| 1"        | T37               | 2.9            | 7.25  | 2.29 | 3.04 | 1.38 | 4.50  | T37-A              |
| 1-1/4"    | T47               | 3.6            | 7.44  | 2.35 | 3.23 | 1.75 | 5.00  | T47-A              |
| 1-1/2"    | T57               | 4.5            | 8.19  | 2.60 | 3.60 | 1.94 | 5.44  | T57-A              |
| 2"        | T67               | 6.5            | 9.19  | 3.17 | 4.17 | 2.44 | 6.38  | T67-A              |
| 2-1/2"    | T77               | 10.7           | 12.00 | 3.67 | 5.79 | 3.56 | 8.38  | T77-A              |
| 3"        | T87               | 15.4           | 12.06 | 4.42 | 5.79 | 3.56 | 8.38  | T87-A              |
| 3-1/2"    | T97               | 19.0           | 14.31 | 4.92 | 6.98 | 4.50 | 10.25 | T97-A              |
| 4"        | T107              | 21.0           | 14.31 | 5.42 | 6.98 | 4.50 | 10.25 | T107-A             |

### T MARK 9

| PIPE SIZE | NOMINAL WEIGHT | A     | B    | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|----------------|-------|------|------|------|-------|--------------------|
| 1/2"      | 1.8            | 5.00  | 1.42 | 2.17 | 1.19 | 3.31  | T50-A              |
| 3/4"      | 2.5            | 5.69  | 1.92 | 2.42 | 1.38 | 3.31  | T75-A              |
| 1"        | 3.3            | 6.59  | 1.92 | 2.67 | 1.50 | 4.56  | T100-A             |
| 1-1/4"    | 4.9            | 7.50  | 2.54 | 3.13 | 1.94 | 5.31  | T125-A             |
| 1-1/2"    | 7.5            | 8.25  | 2.79 | 3.48 | 2.25 | 6.00  | T150-A             |
| 2"        | 11.7           | 10.50 | 3.48 | 4.17 | 2.88 | 8.06  | T200-A             |
| 2-1/2"    | 19.8           | 15.63 | 4.48 | 6.73 | 4.25 | 10.88 | T250-A             |
| 3"        | 23.5           | 15.63 | 4.85 | 6.73 | 4.25 | 10.88 | T300-A             |
| 3-1/2"    | 21.0           | 18.75 | 5.73 | 8.17 | 5.44 | 13.44 | T350               |
| 4"        | 24.0           | 18.75 | 5.98 | 8.17 | 5.44 | 13.44 | T400               |

## REPLACEMENT SCREW KITS

| CATALOG #    | DESCRIPTION                       |
|--------------|-----------------------------------|
| SCREW-KIT-1  | 1/2" and 3/4" FORM 8 ENCAP SCREWS |
| SCREW-KIT-2  | 1" and 1-1/4" FORM 8 ENCAP SCREWS |
| SCREW-KIT-3  | 1-1/2" FORM 8 ENCAP SCREWS        |
| SCREW-KIT-4  | 2" FORM 8 ENCAP SCREWS            |
| SCREW-KIT-5  | 2-1/2" and 3" FORM 8 ENCAP SCREWS |
| SCREW-KIT-6  | 3-1/2" and 4" FORM 8 ENCAP SCREWS |
| SCREW-KIT-7  | 1/2" OE ENCAP SCREWS              |
| SCREW-KIT-8  | 3/4" OE ENCAP SCREWS              |
| SCREW-KIT-9  | 1-1/4" LBD ENCAP SCREWS           |
| SCREW-KIT-10 | 1-1/2" LBD ENCAP SCREWS           |
| SCREW-KIT-11 | 2" LBD ENCAP SCREWS               |
| SCREW-KIT-12 | 2-1/2" and 3" LBD ENCAP SCREWS    |
| SCREW-KIT-13 | 2-1/2" and 3" MARK 9 ENCAP SCREWS |
| SCREW-KIT-14 | 3-1/2" and 4" MARK 9 ENCAP SCREWS |

# Pulling Elbows



## Pulling Elbows

### Description:

Perma-Cote LBD conduit bodies are used at 90° bends in conduit runs to allow straight pulls at bends, to serve as pull outlets for stiff conductors, to allow for service entrance into buildings, or to allow conductor entrance into motors. Electrical continuity of the conduit system is maintained across assembled joints.

### Features:

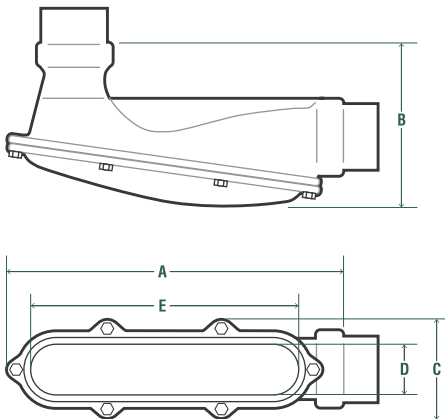
- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 10 trade sizes from 1/2" through 4"
- Sealing sleeves on all conduit openings
- Molded-in seal between body and cover
- Domed covers allow gentle bends of conductors
- Shipped with covers
- Angled covers allow straight pulling in either direction

### Standards:

#### Steel Fittings Only

- UL 514B (E200413)

## Pulling Elbows Technical Data



### PULLING ELBOWS LBD

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B     | C    | D    | E     | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|-------|------|------|-------|--------------------|
| 1/2"      | LBD-1100          | 1.2            | 5.00  | 2.35  | 1.39 | 1.00 | 3.34  | LBD-1100-A         |
| 3/4"      | LBD-2200          | 2.0            | 6.25  | 2.67  | 1.64 | 1.25 | 4.53  | LBD-2200-A         |
| 1"        | LBD-3300          | 2.5            | 6.25  | 2.98  | 1.89 | 1.50 | 4.34  | LBD-3300-A         |
| 1-1/4"    | LBD-4400          | 6.0            | 8.63  | 4.29  | 3.58 | 1.81 | 7.19  | LBD-4400-A         |
| 1-1/2"    | LBD-5500          | 11.5           | 12.44 | 5.48  | 4.71 | 2.63 | 10.88 | LBD-5500-A         |
| 2"        | LBD-6600          | 18.0           | 12.44 | 5.48  | 4.71 | 2.63 | 10.88 | LBD-6600-A         |
| 2-1/2"    | LBD-7700          | 22.0           | 19.69 | 9.60  | 5.71 | 3.00 | 15.75 | LBD-7700-A         |
| 3"        | LBD-8800          | 35.0           | 19.69 | 9.60  | 5.71 | 3.00 | 15.75 | LBD-8800-A         |
| 3-1/2"    | LBD-9900          | 60.0           | 20.88 | 10.92 | 7.83 | 4.75 | 19.89 | -                  |
| 3-1/2"    | -                 | -              | 27.81 | 11.92 | 7.21 | 4.00 | 24.00 | LBD-9900-A         |
| 4"        | LBD-10900         | 70.0           | 20.88 | 10.92 | 7.83 | 4.75 | 19.89 | -                  |
| 4"        | -                 | -              | 27.81 | 11.92 | 7.21 | 4.00 | 24.00 | LBD-10900-A        |



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## Mogul Style Conduit Bodies

### Description:

Perma-Cote mogul style conduit bodies are offered in numerous configurations to provide a complete coated conduit system. Mogul BG Covers are sold separately. Mogul style fitting bodies have long openings and may be used to make bends in conduit runs, for pull outlets for stiff conductors, to provide additional room for taps or splices, etc.. Electrical continuity of the conduit system is maintained across assembled joints.

### Features:

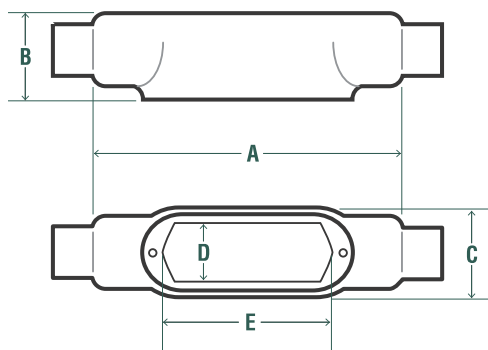
- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 8 trade sizes from 1" through 4"
- Sealing sleeves on all conduit openings
- Molded-in seal between bodies and covers
- Large cover openings provide ample room

### Standards:

#### Steel and Aluminum

- UL 514A, 514D (E231035)
- CSA C22.2 No. 18, CSA C22.2 No. 42

## Conduit Bodies – Mogul Technical Data



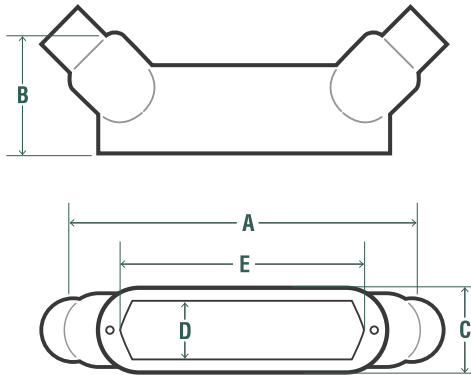
### BC

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E  | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|------|------|----|--------------------|
| 1"        | C8X-100G          | 3.2            | 9.56  | 1.92 | 2.27 | 1.88 | 6  | C8X-100-A          |
| 1-1/4"    | C8X-125G          | 4.2            | 9.56  | 2.35 | 2.27 | 1.88 | 6  | C8X-125-A          |
| 1-1/2"    | C8X-150G          | 6.0            | 13.75 | 2.60 | 3.08 | 2.63 | 10 | C8X-150-A          |
| 2"        | C8X-200G          | 7.0            | 13.75 | 3.17 | 3.08 | 2.63 | 10 | C8X-200-A          |
| 2-1/2"    | C8X-250G          | 13.8           | 18.38 | 3.67 | 4.33 | 3.81 | 15 | C8X-250-A          |
| 3"        | C8X-300G          | 17.5           | 18.38 | 4.42 | 4.33 | 3.81 | 15 | C8X-300-A          |
| 3-1/2"    | C8X-350G          | 25.0           | 23.75 | 4.92 | 5.33 | 4.75 | 20 | C8X-350-A          |
| 4"        | C8X-400G          | 28.0           | 23.75 | 5.42 | 5.33 | 4.75 | 20 | C8X-400-A          |

(cover sold separately)

# Conduit Bodies and Covers

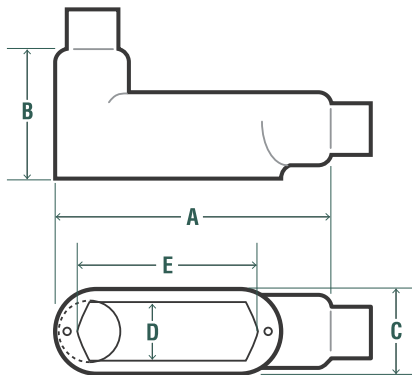
## Conduit Bodies – Mogul Technical Data



### BUB

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E  | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|------|------|----|--------------------|
| 1"        | UB6X-100G         | 3.2            | 9.19  | 2.69 | 2.27 | 1.88 | 6  | UB6X-100-A         |
| 1-1/4"    | UB6X-125G         | 4.0            | 9.31  | 3.19 | 2.27 | 1.88 | 6  | UB6X-125-A         |
| 1-1/2"    | UB6X-150G         | 5.9            | 13.50 | 3.5  | 3.08 | 2.63 | 10 | UB6X-150-A         |
| 2"        | UB6X-200G         | 7.8            | 13.50 | 4.13 | 3.08 | 2.63 | 10 | UB6X-200-A         |
| 2-1/2"    | UB6X-250G         | 12.5           | 17.75 | 4.81 | 4.33 | 3.81 | 15 | UB6X-250-A         |
| 3"        | UB6X-300G         | 17.0           | 17.88 | 5.63 | 4.33 | 3.81 | 15 | UB6X-300-A         |
| 3-1/2"    | UB6X-350G         | 25.0           | 23.38 | 6.38 | 5.33 | 4.75 | 20 | UB6X-350-A         |
| 4"        | UB6X-400G         | 28.0           | 23.25 | 6.81 | 5.33 | 4.75 | 20 | UB6X-400-A         |

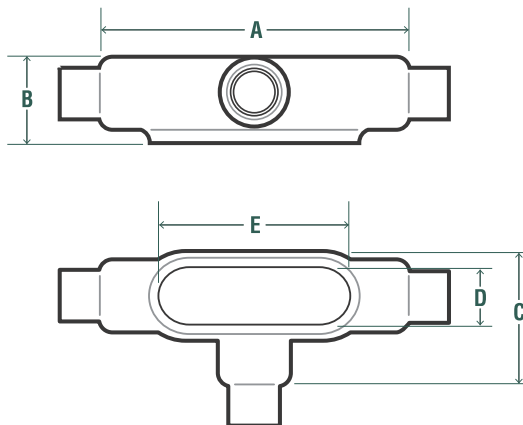
(cover sold separately)



### BLB

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E  | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|------|------|----|--------------------|
| 1"        | LB6X-100G         | 3.2            | 8.63  | 2.84 | 2.27 | 1.88 | 6  | LB6X-100-A         |
| 1-1/4"    | LB6X-125G         | 4.2            | 8.63  | 3.28 | 2.27 | 1.88 | 6  | LB6X-125-A         |
| 1-1/2"    | LB6X-150G         | 6.0            | 12.73 | 3.63 | 3.08 | 2.63 | 10 | LB6X-150-A         |
| 2"        | LB6X-200G         | 7.0            | 12.73 | 4.19 | 3.08 | 2.63 | 10 | LB6X-200-A         |
| 2-1/2"    | LB6X-250G         | 13.8           | 16.95 | 5.09 | 4.33 | 3.81 | 15 | LB6X-250-A         |
| 3"        | LB6X-300G         | 17.5           | 16.95 | 5.84 | 4.33 | 3.81 | 15 | LB6X-300-A         |
| 3-1/2"    | LB6X-350G         | 25.0           | 22.17 | 6.50 | 5.33 | 4.75 | 20 | LB6X-350-A         |
| 4"        | LB6X-400G         | 28.0           | 22.17 | 7.00 | 5.33 | 4.75 | 20 | LB6X-400-A         |

(cover sold separately)



### BT

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | C    | D    | E  | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|------|------|----|--------------------|
| 1"        | T8X-100G          | 3.2            | 9.56  | 1.92 | 3.24 | 1.88 | 6  | T8X-100-A          |
| 1-1/4"    | T8X-125G          | 3.6            | 9.56  | 2.35 | 3.24 | 1.88 | 6  | T8X-125-A          |
| 1-1/2"    | T8X-150G          | 7.5            | 13.75 | 2.60 | 4.14 | 2.63 | 10 | T8X-150-A          |
| 2"        | T8X-200G          | 9.0            | 13.75 | 3.17 | 4.14 | 2.63 | 10 | T8X-200-A          |
| 2-1/2"    | T8X-250G          | 15.0           | 18.38 | 3.67 | 5.67 | 3.81 | 15 | T8X-250-A          |
| 3"        | T8X-300G          | 19.0           | 18.38 | 4.42 | 5.80 | 3.81 | 15 | T8X-300-A          |
| 3-1/2"    | T8X-350G          | 29.0           | 23.75 | 4.92 | 6.96 | 4.75 | 20 | T8X-350-A          |
| 4"        | T8X-400G          | 32.0           | 23.75 | 5.42 | 6.96 | 4.75 | 20 | T8X-400-A          |

(cover sold separately)

### BG COVERS (body sold separately)

| FERROUS CATALOG # | DESCRIPTION              | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-------------------|--------------------------|----------------|--------------------|
| BG48              | 1 - 1 1/4 BG COVER MOGUL | 2.5            | BG48-A             |
| BG68              | 1 1/2 - 2 BG COVER MOGUL | 3.2            | BG68-A             |
| BG88              | 2 1/2 - 3 BG COVER MOGUL | 6.4            | BG88-A             |
| BG98              | 3 1/2 - 4 BG COVER MOGUL | 9.8            | BG98-A             |



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## Knockout Hubs

### Description:

Perma-Cote ST style knockout hubs are used to terminate conduit runs through the wall of a sheet metal electrical enclosure. They are available with or without grounding lug. STTB style hubs are "Through-Bulkhead" fittings used to pass conduit runs through firewalls or bulkheads up to 1/8" thick. STTTB style hubs perform the same function for unlimited wall thicknesses, (furnished without nipples).

### Features:

- 40 mil gray PVC exterior coating
- ST available in 12 trade sizes from 1/2" through 6"
- STTB available in 10 trade sizes from 1/2" through 4"
- STTTB available in 6 trade sizes from 1/2" through 2"
- Sealing sleeves on conduit side of hub
- Molded PVC gasket seals flush with enclosure wall
- O-ring gasket provides additional seal

### Standards:

#### Steel Only: ST, STG

- UL 514B (E200413)
- NEC/CEC:
  - Class I, Division 2
  - Class II, Division 1 & 2
  - Class III, Division 1 & 2

#### NOTE:

- All Screw-tight Hubs are listed for NEMA and UL type enclosures 2, 3, 3R, 4, 4X, 11 and 12
- Grounding and Bonding Hubs are listed for NEMA Enclosures 2, 3, 3R, 4 and 12

# Knockout Hubs

## Knockout Hubs Technical Data

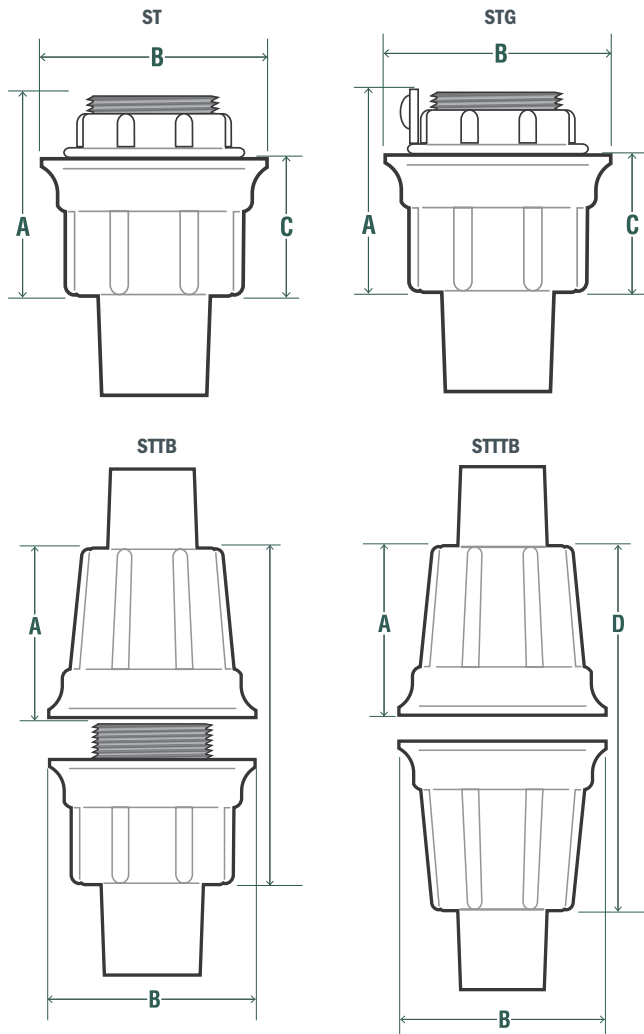
### ST

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C    | MAX WALL THICK | ALUMINUM CATALOG # |
|-----------|-----------|----------------|------|------|------|----------------|--------------------|
| 1/2"      | ST-1      | 0.2            | 1.34 | 2.00 | 0.81 | 0.19           | STA-1              |
| 3/4"      | ST-2      | 0.3            | 1.47 | 2.25 | 0.91 | 0.19           | STA-2              |
| 1"        | ST-3      | 0.4            | 1.66 | 2.50 | 1.03 | 0.25           | STA-3              |
| 1-1/4"    | ST-4      | 0.4            | 1.69 | 3.25 | 1.03 | 0.25           | STA-4              |
| 1-1/2"    | ST-5      | 0.6            | 1.69 | 3.50 | 1.03 | 0.25           | STA-5              |
| 2"        | ST-6      | 1.2            | 1.75 | 4.25 | 1.09 | 0.25           | STA-6              |
| 2-1/2"    | ST-7      | 1.5            | 2.22 | 4.75 | 1.28 | 0.25           | STA-7              |
| 3"        | ST-8      | 2.1            | 2.31 | 5.25 | 1.38 | 0.25           | STA-8              |
| 3-1/2"    | ST-9      | 3.0            | 2.38 | 5.50 | 1.44 | 0.25           | STA-9              |
| 4"        | ST-10     | 3.5            | 2.44 | 6.25 | 1.50 | 0.25           | STA-10             |
| 5"        | ST-11     | 5.4            | 2.94 | 7.50 | 2.00 | 0.25           | STA-11             |
| 6"        | ST-12     | 6.9            | 3    | 8.50 | 2.00 | 0.31           | STA-12             |

### STG

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | C    | MAX WALL THICK | ALUMINUM CATALOG # |
|-----------|-----------|----------------|------|------|------|----------------|--------------------|
| 1/2"      | STG-1     | 0.2            | 1.34 | 2.00 | 0.81 | 0.19           | STAG-1             |
| 3/4"      | STG-2     | 0.3            | 1.47 | 2.25 | 0.91 | 0.19           | STAG-2             |
| 1"        | STG-3     | 0.4            | 1.66 | 2.50 | 1.03 | 0.25           | STAG-3             |
| 1-1/4"    | STG-4     | 0.4            | 1.69 | 3.25 | 1.03 | 0.25           | STAG-4             |
| 1-1/2"    | STG-5     | 0.6            | 1.69 | 3.50 | 1.03 | 0.25           | STAG-5             |
| 2"        | STG-6     | 1.2            | 1.75 | 4.25 | 1.09 | 0.25           | STAG-6             |
| 2-1/2"    | STG-7     | 1.5            | 2.22 | 4.75 | 1.28 | 0.25           | STAG-7             |
| 3"        | STG-8     | 2.1            | 2.31 | 5.25 | 1.38 | 0.25           | STAG-8             |
| 3-1/2"    | STG-9     | 3.0            | 2.38 | 5.50 | 1.44 | 0.25           | STAG-9             |
| 4"        | STG-10    | 3.5            | 2.44 | 6.25 | 1.50 | 0.25           | STAG-10            |
| 5"        | STG-11    | 5.4            | 2.94 | 7.50 | 2.00 | 0.25           | STAG-11            |
| 6"        | STG-12    | 6.9            | 3.00 | 8.50 | 2.00 | 0.31           | STAG-12            |

## KNOCKOUT HUB CONFIGURATIONS



### STTB

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | MAX WALL THICK | ALUMINUM CATALOG # |
|-----------|-----------|----------------|------|------|----------------|--------------------|
| 1/2"      | STTB-1    | 0.5            | 1.34 | 2.00 | 0.19           | STTBA-1            |
| 3/4"      | STTB-2    | 0.5            | 1.47 | 2.25 | 0.19           | STTBA-2            |
| 1"        | STTB-3    | 0.7            | 1.66 | 2.50 | 0.25           | STTBA-3            |
| 1-1/4"    | STTB-4    | 1.0            | 1.69 | 3.25 | 0.25           | STTBA-4            |
| 1-1/2"    | STTB-5    | 1.2            | 1.69 | 3.50 | 0.25           | STTBA-5            |
| 2"        | STTB-6    | 1.7            | 1.75 | 4.25 | 0.25           | STTBA-6            |
| 2-1/2"    | STTB-7    | 2.5            | 2.22 | 4.75 | 0.25           | STTBA-7            |
| 3"        | STTB-8    | 3.0            | 2.31 | 5.25 | 0.25           | STTBA-8            |
| 3-1/2"    | STTB-9    | 4.2            | 2.38 | 5.50 | 0.25           | STTBA-9            |
| 4"        | STTB-10   | 5.9            | 2.44 | 6.25 | 0.25           | STTBA-10           |

### STTTB

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT | A    | B    | MAX WALL THICK | ALUMINUM CATALOG # |
|-----------|-----------|----------------|------|------|----------------|--------------------|
| 1/2"      | STTTB-1   | 1.0            | 1.34 | 2.00 | *              | STTTBA-1           |
| 3/4"      | STTTB-2   | 1.0            | 1.47 | 2.25 | *              | STTTBA-2           |
| 1"        | STTTB-3   | 1.4            | 1.66 | 2.50 | *              | STTTBA-3           |
| 1-1/4"    | STTTB-4   | 2.0            | 1.69 | 3.25 | *              | STTTBA-4           |
| 1-1/2"    | STTTB-5   | 2.4            | 1.69 | 3.50 | *              | STTTBA-5           |
| 2"        | STTTB-6   | 3.4            | 1.75 | 4.25 | *              | STTTBA-6           |

\* Unlimited wall thickness - determined by nipple used.



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## Liquid Tight Connectors

### Description:

Perma-Cote liquid tight connectors are used with liquid tight conduit to wire motors, transformers, processing equipment, pumps, etc. The flexible conduit and the PVC coated connector work together to seal out water and other corrosive liquids, protecting the conductors from damage.

### Features:

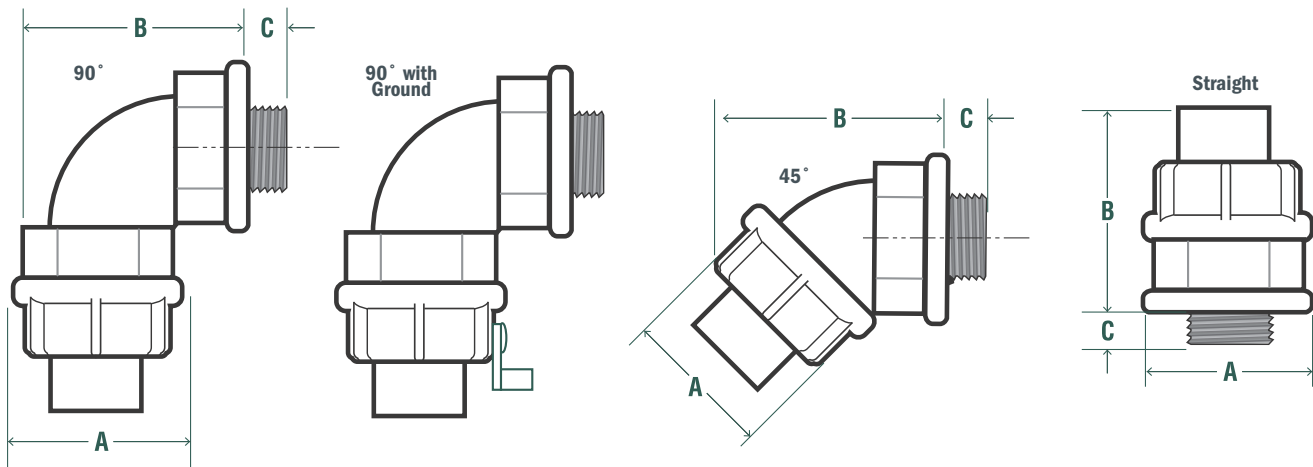
- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 13 trade sizes from 3/8" through 6"
- Sealing sleeves on all conduit openings
- Available in straight, 45° or 90° body configurations
- Available with an external grounding lug

### Standards:

#### Steel Fittings Only

- UL 514B (E200413), UL 467 (E217890)

### LIQUID TIGHT CONNECTORS CONFIGURATIONS

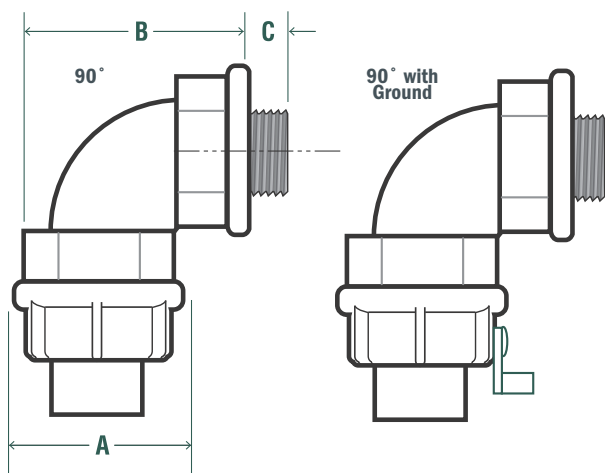




# Liquid Tight Connectors

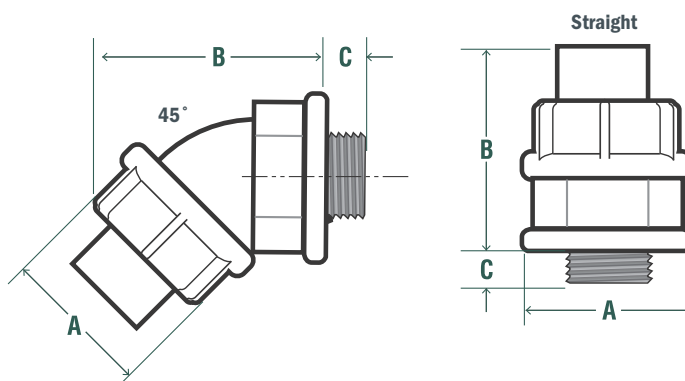
## STRAIGHT CONNECTOR

| PIPE SIZE | FERROUS CATALOG # | A    | B    | C    | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------|-------------------|------|------|------|----------------|--------------------|
| 3/8"      | 4Q38T             | 1.24 | 1.5  | 0.56 | 0.2            | 4Q38T-A            |
| 1/2"      | 4Q50T             | 1.46 | 1.56 | 0.56 | 0.2            | 4Q50T-A            |
| 3/4"      | 4Q75T             | 1.74 | 1.63 | 0.56 | 0.3            | 4Q75T-A            |
| 1"        | 4Q100T            | 1.96 | 2.06 | 0.75 | 0.4            | 4Q100T-A           |
| 1-1/4"    | 4Q125T            | 2.36 | 2.50 | 0.81 | 0.8            | 4Q125T-A           |
| 1-1/2"    | 4Q150T            | 2.80 | 2.69 | 0.81 | 0.9            | 4Q150T-A           |
| 2"        | 4Q200T            | 3.33 | 3.06 | 0.88 | 1.7            | 4Q200T-A           |
| 2-1/2"    | 4Q250T            | 3.83 | 4.13 | 1.00 | 3.0            | 4Q250T-A           |
| 3"        | 4Q300T            | 4.58 | 4.25 | 1.00 | 4.2            | 4Q300T-A           |
| 4"        | 4Q350T            | 5.58 | 4.50 | 1.13 | 6.2            | 4Q350T-A           |



## STRAIGHT CONNECTOR WITH GROUND

| PIPE SIZE | FERROUS CATALOG # | A    | B    | C    | GROUND WIRE | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------|-------------------|------|------|------|-------------|----------------|--------------------|
| 3/8"      | 4Q38LT            | 1.24 | 1.5  | 0.56 | 14-8        | 0.2            | 4Q38LT-A           |
| 1/2"      | 4Q50LT            | 1.46 | 1.56 | 0.56 | 14-8        | 0.2            | 4Q50LT-A           |
| 3/4"      | 4Q75LT            | 1.74 | 1.63 | 0.56 | 14-4        | 0.3            | 4Q75LT-A           |
| 1"        | 4Q100LT           | 1.96 | 2.06 | 0.75 | 14-4        | 0.4            | 4Q100LT-A          |
| 1-1/4"    | 4Q125LT           | 2.33 | 2.5  | 0.81 | 8/1/2000    | 0.8            | 4Q125LT-A          |
| 1-1/2"    | 4Q150LT           | 3.33 | 2.69 | 0.81 | 4/2/2000    | 0.9            | 4Q150LT-A          |
| 2"        | 4Q200LT           | 3.89 | 3.06 | 0.88 | 4/2/2000    | 1.7            | 4Q200LT-A          |
| 2-1/2"    | 4Q250LT           | 4.52 | 4.13 | 1.00 | 2/4/2000    | 3.0            | 4Q250LT-A          |
| 3"        | 4Q300LT           | 5.27 | 4.25 | 1.00 | 2/4/2000    | 4.2            | 4Q300LT-A          |
| 4"        | 4Q350LT           | 6.21 | 4.50 | 1.13 | 2/4/2000    | 6.2            | 4Q350LT-A          |



## 45° CONNECTOR

| PIPE SIZE | FERROUS CATALOG # | A    | B    | C    | NOMINAL WEIGHT |
|-----------|-------------------|------|------|------|----------------|
| 3/8"      | 4Q438T            | 1.24 | 1.56 | 0.56 | 0.3            |
| 1/2"      | 4Q450T            | 1.46 | 1.88 | 0.56 | 0.3            |
| 3/4"      | 4Q475T            | 1.74 | 2.13 | 0.56 | 0.4            |
| 1"        | 4Q4100T           | 1.96 | 2.25 | 0.75 | 0.5            |
| 1-1/4"    | 4Q4125T           | 2.36 | 2.75 | 0.81 | 1.5            |
| 1-1/2"    | 4Q4150T           | 2.80 | 3.38 | 0.81 | 1.2            |
| 2"        | 4Q4200T           | 3.33 | 3.88 | 0.88 | 2.0            |
| 2-1/2"    | 4Q4250T           | 3.83 | 4.25 | 1.00 | 3.0            |
| 3"        | 4Q4300T           | 4.58 | 4.25 | 1.00 | 4.2            |
| 4"        | 4Q4400T           | 5.58 | 4.63 | 1.13 | 6.2            |

## 45° CONNECTOR WITH GROUND

| PIPE SIZE | FERROUS CATALOG # | A    | B    | C    | GROUND WIRE | NOMINAL WEIGHT |
|-----------|-------------------|------|------|------|-------------|----------------|
| 3/8"      | 4Q438LT           | 1.24 | 1.56 | 0.56 | 14-8        | 0.3            |
| 1/2"      | 4Q450LT           | 1.46 | 1.88 | 0.56 | 14-8        | 0.3            |
| 3/4"      | 4Q475LT           | 1.74 | 2.13 | 0.56 | 14-4        | 0.4            |
| 1"        | 4Q4100LT          | 1.96 | 2.25 | 0.75 | 14-4        | 0.5            |
| 1-1/4"    | 4Q4125LT          | 2.33 | 2.75 | 0.81 | 4/2/2000    | 1.5            |
| 1-1/2"    | 4Q4150LT          | 3.33 | 3.38 | 0.81 | 4/2/2000    | 1.2            |
| 2"        | 4Q4200LT          | 3.89 | 3.88 | 0.88 | 4/2/2000    | 2.0            |
| 2-1/2"    | 4Q4250LT          | 4.52 | 4.25 | 1.00 | 2/4/2000    | 3.0            |
| 3"        | 4Q4300LT          | 5.27 | 4.25 | 1.00 | 2/4/2000    | 4.2            |
| 4"        | 4Q4400LT          | 6.21 | 4.63 | 1.13 | 2/4/2000    | 6.2            |

## 90° CONNECTOR

| PIPE SIZE | FERROUS CATALOG # | A    | B     | C    | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------|-------------------|------|-------|------|----------------|--------------------|
| 3/8"      | 4Q938T            | 1.24 | 1.38  | 0.56 | 0.3            | 4Q938T-A           |
| 1/2"      | 4Q950T            | 1.46 | 1.56  | 0.56 | 0.3            | 4Q950T-A           |
| 3/4"      | 4Q975T            | 1.74 | 1.75  | 0.56 | 0.4            | 4Q975T-A           |
| 1"        | 4Q9100T           | 1.96 | 2.19  | 0.75 | 0.6            | 4Q9100T-A          |
| 1-1/4"    | 4Q9125T           | 2.36 | 2.75  | 0.81 | 1.0            | 4Q9125T-A          |
| 1-1/2"    | 4Q9150T           | 2.80 | 2.94  | 0.81 | 1.7            | 4Q9150T-A          |
| 2"        | 4Q9200T           | 3.33 | 3.44  | 0.88 | 2.7            | 4Q9200T-A          |
| 2-1/2"    | 4Q9250T           | 3.83 | 8.88  | 1.00 | 3.8            | -                  |
| 3"        | 4Q9300T           | 4.58 | 10.25 | 1.00 | 4.2            | -                  |
| 4"        | 4Q9400T           | 5.58 | 12.63 | 1.13 | 6.2            | -                  |

## 90° CONNECTOR WITH GROUND

| PIPE SIZE | FERROUS CATALOG # | A    | B     | C    | GROUND WIRE | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------|-------------------|------|-------|------|-------------|----------------|--------------------|
| 3/8"      | 4Q938LT           | 1.24 | 1.25  | 0.56 | 14-8        | 0.3            | 4Q938LT-A          |
| 1/2"      | 4Q950LT           | 1.46 | 1.44  | 0.56 | 14-8        | 0.3            | 4Q950LT-A          |
| 3/4"      | 4Q975LT           | 1.74 | 1.81  | 0.75 | 14-4        | 0.4            | 4Q975LT-A          |
| 1"        | 4Q9100LT          | 1.96 | 2.06  | 0.75 | 14-4        | 0.6            | 4Q9100LT-A         |
| 1-1/4"    | 4Q9125LT          | 2.33 | 2.50  | 0.81 | 8/1/2000    | 1.0            | 4Q9125LT-A         |
| 1-1/2"    | 4Q9150LT          | 3.33 | 2.94  | 0.81 | 4/2/2000    | 1.7            | 4Q9150LT-A         |
| 2"        | 4Q9200LT          | 3.89 | 3.44  | 0.88 | 4/2/2000    | 2.7            | 4Q9200LT-A         |
| 2-1/2"    | 4Q9250LT          | 4.52 | 8.88  | 1.00 | 2/4/2000    | 3.8            | -                  |
| 3"        | 4Q9300LT          | 5.27 | 10.25 | 1.00 | 2/4/2000    | 4.2            | -                  |
| 4"        | 4Q9400LT          | 6.21 | 12.63 | 1.13 | 2/4/2000    | 6.2            | -                  |



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## TECK Series Armored Cable Fittings

### Description:

Perma-Cote TECK Series cable fittings are designed for use with jacketed TECK cable with aluminum or steel armor. TECK series cable fittings are installed to provide a means for passing TECK type cable into an enclosure, panel board, or other equipment, to form a mechanical watertight and dust tight termination, and to provide ground continuity between the cable armour and metal enclosures.

### Features:

- 40 mil gray PVC exterior coating with cable sleeve and sealing gland
- Standard material is aluminum
- Stainless steel copper-plated spring provides grounding continuity of cable armour (TECK cable only)
- Watertight seal on outer sheath of cable
- Standard neoprene seal suitable for use in operating temperatures -25° to 60°C
- An integral o-ring seal on entry threads
- Available with NPT threads

### Gland Type:

- Armoured

### Cable Type:

- TECK Armoured

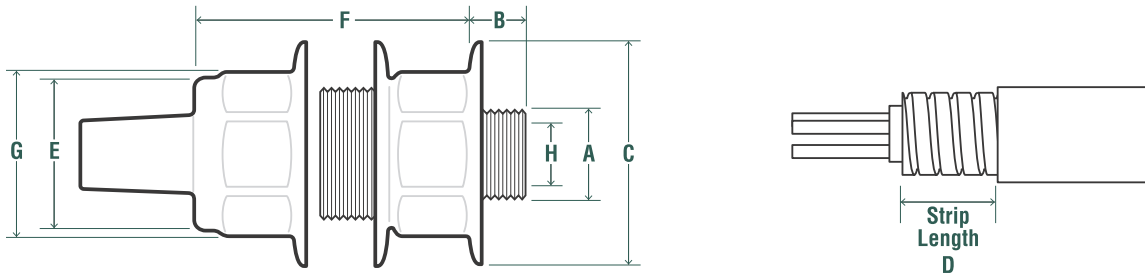
### Standards:

- CSA Certified Class II, Div. 1 & 2, Groups E, F, G; Class III – CSA File LR13046
- Type 4 and IP56
- Wet locations



# TECK Series Cable Fittings

## TECK Series – Technical Data



### TECK SERIES

| PVC COATED<br>ALUMINUM<br>CATALOG # | ENTRY THREAD<br>SIZE A<br>NPT SIZE | THREAD<br>LENGTH B<br>NPT | CABLE ACCEPTANCE     |       |                       |       | GLAND<br>LENGTH F<br>(LESS ENTRY) | HEXAGON DIMENSIONS |                     |                    |                   |
|-------------------------------------|------------------------------------|---------------------------|----------------------|-------|-----------------------|-------|-----------------------------------|--------------------|---------------------|--------------------|-------------------|
|                                     |                                    |                           | ARMOR RANGE H<br>MIN | MAX   | OUTER SHEATH E<br>MIN | MAX   |                                   | ACROSS<br>FLATS    | ACROSS<br>CORNERS G | SEALING<br>GLAND C | STRIP<br>LENGTH D |
| TECK050-1                           | 1/2"                               | 0.630                     | 0.415                | 0.570 | 0.525                 | 0.650 | 2.300                             | 1.250              | 1.350               | 1.925              | 1-1/4"            |
| TECK050-2                           | 1/2"                               | 0.630                     | 0.490                | 0.680 | 0.600                 | 0.760 | 2.300                             | 1.375              | 1.500               | 1.925              | 1-1/4"            |
| TECK050-3                           | 1/2"                               | 0.630                     | 0.615                | 0.805 | 0.725                 | 0.885 | 2.300                             | 1.500              | 1.600               | 1.925              | 1-1/4"            |
| TECK050-4                           | 1/2"                               | 0.630                     | 0.715                | 0.905 | 0.825                 | 0.985 | 2.300                             | 1.500              | 1.600               | 1.925              | 1-1/4"            |
| TECK075-5                           | 3/4"                               | 0.630                     | 0.770                | 0.985 | 0.880                 | 1.065 | 2.500                             | 2.000              | 2.125               | 2.000              | 1-1/4"            |
| TECK075-6                           | 3/4"                               | 0.630                     | 0.915                | 1.125 | 1.025                 | 1.205 | 2.500                             | 2.000              | 2.125               | 2.000              | 1-1/4"            |
| TECK100-7                           | 1"                                 | 0.750                     | 1.077                | 1.295 | 1.187                 | 1.375 | 2.625                             | 2.250              | 2.400               | 2.370              | 1-1/4"            |
| TECK125-8                           | 1-1/4"                             | 0.800                     | 1.240                | 1.545 | 1.350                 | 1.625 | 3.500                             | 3.000              | 3.125               | 2.370              | 1-3/4"            |
| TECK125-9                           | 1-1/4"                             | 0.800                     | 1.390                | 1.545 | 1.500                 | 1.625 | 3.400                             | 3.000              | 3.125               | 2.370              | 1-3/4"            |
| TECK125-10                          | 1-1/4"                             | 0.800                     | 1.490                | 1.795 | 1.600                 | 1.875 | 3.500                             | 3.000              | 3.125               | 2.870              | 1-3/4"            |
| TECK150-11                          | 1-1/2"                             | 0.800                     | 1.590                | 1.885 | 1.700                 | 1.965 | 3.800                             | 3.750              | 3.600               | 3.250              | 1-3/4"            |
| TECK150-12                          | 1-1/2"                             | 0.800                     | 1.790                | 2.107 | 1.900                 | 2.187 | 3.900                             | 3.500              | 3.750               | 3.250              | 1-3/4"            |
| TECK200-13                          | 2"                                 | 0.825                     | 1.790                | 2.107 | 1.900                 | 2.187 | 4.000                             | 3.750              | 4.000               | 3.750              | 1-3/4"            |
| TECK200-14                          | 2"                                 | 0.825                     | 1.990                | 2.280 | 2.100                 | 2.375 | 4.000                             | 3.750              | 4.000               | 3.750              | 1-3/4"            |
| TECK200-15                          | 2"                                 | 0.875                     | 2.190                | 2.485 | 2.300                 | 2.565 | 4.000                             | 4.125              | 4.400               | 3.750              | 1-3/4"            |
| TECK200-16                          | 2"                                 | 0.875                     | 2.390                | 2.656 | 2.500                 | 2.750 | 4.000                             | 4.125              | 4.400               | 3.750              | 1-3/4"            |
| TECK250-17                          | 2-1/2"                             | 1.300                     | 2.240                | 2.560 | 2.380                 | 2.640 | 5.000                             | 4.500              | 4.750               | 4.500              | 2-1/2"            |
| TECK250-18                          | 2-1/2"                             | 1.300                     | 2.440                | 2.750 | 2.580                 | 2.840 | 5.000                             | 4.500              | 4.750               | 4.500              | 2-1/2"            |
| TECK300-19                          | 3"                                 | 1.400                     | 2.640                | 2.970 | 2.790                 | 3.060 | 5.000                             | 4.600              | 4.900               | 5.000              | 2-1/2"            |
| TECK300-20                          | 3"                                 | 1.400                     | 2.870                | 3.190 | 3.000                 | 3.270 | 5.000                             | 4.900              | 5.250               | 5.000              | 2-1/2"            |
| TECK300-21                          | 3"                                 | 1.400                     | 3.042                | 3.390 | 3.210                 | 3.480 | 5.000                             | 5.000              | 5.250               | 5.000              | 2-1/2"            |
| TECK350-22                          | 3-1/2"                             | 1.400                     | 3.270                | 3.590 | 3.420                 | 3.690 | 5.000                             | 5.600              | 5.900               | 5.500              | 2-1/2"            |
| TECK350-23                          | 3-1/2"                             | 1.400                     | 3.440                | 3.770 | 3.610                 | 3.870 | 5.000                             | 5.500              | 5.900               | 5.500              | 2-1/2"            |
| TECK400-24                          | 4"                                 | 1.400                     | 3.600                | 3.930 | 3.810                 | 4.030 | 5.000                             | 6.125              | 6.500               | 6.100              | 2-1/2"            |
| TECK400-25                          | 4"                                 | 1.400                     | 3.755                | 4.065 | 3.965                 | 4.185 | 5.000                             | 6.125              | 6.500               | 6.100              | 2-1/2"            |
| TECK400-26                          | 4"                                 | 1.400                     | 3.910                | 4.220 | 4.120                 | 4.340 | 5.000                             | 6.125              | 6.500               | 6.100              | 2-1/2"            |

# Grounding Bushings and Split Couplings

## Grounding Bushings

### Description:

Perma-Cote grounding bushings are used on threaded PVC-coated rigid conduit to provide a means of grounding conduit through an insulated bushing.

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 10 trade sizes from 1/2" through 4"
- Aluminum lug for copper or aluminum grounding conductor



### GROUNDING BUSHINGS

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT |
|-----------|-------------------|----------------|
| 1/2"      | GLL1              | 0.1            |
| 3/4"      | GLL2              | 0.1            |
| 1"        | GLL3              | 0.1            |
| 1-1/4"    | GLL4              | 0.2            |
| 1-1/2"    | GLL5              | 0.2            |
| 2"        | GLL6              | 0.3            |
| 2-1/2"    | GLL7              | 0.5            |
| 3"        | GLL8              | 0.7            |
| 3-1/2"    | GLL9              | 1.0            |
| 4"        | GLL10             | 1.1            |

## Split Couplings

### Description:

Perma-Cote split couplings are used to connect two pieces of conduit where the conduit can't be turned because of limited clearance between runs or a wall or other obstruction.

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 12 trade sizes from 1/2" through 6"
- Sealing sleeves on all conduit openings



### SPLIT COUPLINGS

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT |
|-----------|-------------------|----------------|
| 1/2"      | SSP-50            | 0.2            |
| 3/4"      | SSP-75            | 0.3            |
| 1"        | SSP-100           | 0.4            |
| 1-1/4"    | SSP-125           | 0.6            |
| 1-1/2"    | SSP-150           | 0.7            |
| 2"        | SSP-200           | 1.0            |
| 2-1/2"    | SSP-250           | 2.3            |
| 3"        | SSP-300           | 3.0            |
| 3-1/2"    | SSP-350           | 3.8            |
| 4"        | SSP-400           | 4.1            |
| 5"        | SSP-500           | 6.0            |
| 6"        | SSP-600           | 8.6            |

# Reducing Bushings, Reducing Couplings, and Plugs

## Reducing Bushings, Reducing Couplings, and Plugs

### RE = Reducers

RE style reducers reduce conduit hubs to a smaller size. They are provided with an integral bushing to prevent conductor damage and full, clean cut threads for ease of assembly. **All RE reducers are coated inside and out with green polyurethane for corrosion protection.**

### REC = Reducing Couplings

Perma-Cote reducing couplings are used to connect two pieces of conduit of different size.

### PLG = Plugs

PLG style plugs are used to close unused conduit hubs. They are available with either recessed square drive sockets or raised square drive heads. **All PLG plugs are coated with polyurethane on non-threaded surfaces for corrosion protection.**

### REDUCING BUSHINGS

| PIPE SIZE       | FERROUS CATALOG # | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------------|-------------------|----------------|--------------------|
| 3/4" - 1/2"     | * RE21            | 0.2            | RE21SA             |
| 1" - 1/2"       | * RE31            | 0.7            | RE31SA             |
| 1" - 3/4"       | * RE32            | 0.5            | RE32SA             |
| 1-1/4" - 1/2"   | * RE41            | 0.8            | RE41SA             |
| 1-1/4" - 3/4"   | * RE42            | 0.8            | RE42SA             |
| 1-1/4" - 1"     | * RE43            | 0.8            | RE43SA             |
| 1-1/2" - 1/2"   | * RE51            | 0.9            | RE51SA             |
| 1-1/2" - 3/4"   | * RE52            | 0.9            | RE52SA             |
| 1-1/2" - 1"     | * RE53            | 0.9            | RE53SA             |
| 1 1/2" - 1-1/4" | * RE54            | 0.9            | RE54SA             |
| 2" - 1/2"       | * RE61            | 1.1            | RE61SA             |
| 2" - 3/4"       | * RE62            | 1.1            | RE62SA             |
| 2" - 1"         | * RE63            | 1.2            | RE63SA             |
| 2" - 1-1/4"     | * RE64            | 1.3            | RE64SA             |
| 2" - 1-1/2"     | * RE65            | 1.6            | RE65SA             |
| 2-1/2" - 1"     | * RE73            | 1.6            | RE73SA             |
| 2 1/2" - 1-1/4" | * RE74            | 1.6            | RE74SA             |
| 2-1/2" - 1-1/2" | * RE75            | 1.6            | RE75SA             |
| 2-1/2" - 2"     | * RE76            | 1.7            | RE76SA             |
| 3" - 1"         | * RE83            | 1.7            | RE83SA             |
| 3" - 1-1/4"     | * RE84            | 2.3            | RE84SA             |
| 3" - 1-1/2"     | * RE85            | 2.4            | RE85SA             |
| 3" - 2"         | * RE86            | 2.5            | RE86SA             |
| 3" - 2-1/2"     | * RE87            | 4.0            | RE87SA             |
| 3-1/2" - 2"     | * RE96            | 4.6            | RE96SA             |
| 3-1/2" - 2-1/2" | * RE97            | 4.7            | RE97SA             |
| 3-1/2" - 3"     | * RE98            | 4.8            | RE98SA             |
| 4" - 2"         | * RE106           | 5.0            | RE106SA            |
| 4" - 2-1/2"     | * RE107           | 5.2            | RE107SA            |
| 4" - 3"         | * RE108           | 6.0            | RE108SA            |
| 4" - 3-1/2"     | * RE109           | 6.1            | RE109SA            |
| 5" - 4"         | RE01210           | 7.4            | RE01210SA          |
| 6" - 5"         | RE01412           | 8.0            | RE01412SA          |

### Standards:

- NEC/CEC:  
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

*All REC, RE, and PLGs meet Class I, Division 1 & 2, Groups C, D. REs & PLGs meet the above standards only when used in conjunction with hazardous location fittings.*

### REDUCING COUPLINGS

| PIPE SIZE       | FERROUS CATALOG # | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------------|-------------------|----------------|--------------------|
| 3/4" - 1/2"     | * REC-0705        | 0.2            | REC-0705-A         |
| 1" - 1/2"       | * REC-1005        | 0.7            | REC-1005-A         |
| 1" - 3/4"       | REC-1007          | 0.5            | REC-1007-A         |
| 1-1/4" - 3/4"   | REC-1207          | 1.0            | REC-1207-A         |
| 1-1/4" - 1"     | REC-1210          | 0.8            | REC-1210-A         |
| 1-1/2" - 3/4"   | REC-1507          | 1.4            | REC-1507-A         |
| 1-1/2" - 1"     | REC-1510          | 1.2            | REC-1510-A         |
| 1-1/2" - 1-1/4" | REC-1512          | 1.3            | REC-1512-A         |
| 2" - 3/4"       | REC-2007          | 1.5            | REC-2007-A         |
| 2" - 1"         | REC-2010          | 2.3            | REC-2010-A         |
| 2" - 1-1/4"     | REC-2012          | 2.6            | REC-2012-A         |
| 2" - 1-1/2"     | REC-2015          | 2.8            | REC-2015-A         |
| 2-1/2" - 1-1/2" | REC-2515          | 3.2            | -                  |
| 3" - 2"         | REC-3020          | 3.7            | REC-3020-A         |
| 3-1/2" - 2-1/2" | REC-97            | 4.6            | -                  |
| 4" - 3"         | REC-4030          | 5.9            | -                  |
| 5" - 4"         | REC-5040          | 7.4            | -                  |

### SQUARE HEAD PLUGS

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT |
|-----------|-------------------|----------------|
| 1/2"      | * PLG15           | 0.5            |
| 3/4"      | * PLG25           | 0.6            |
| 1"        | * PLG35           | 0.2            |
| 1-1/4"    | † PLG45           | 0.3            |
| 1-1/2"    | † PLG55           | 0.3            |
| 2"        | † PLG65           | 0.4            |
| 2-1/2"    | PLG75             | 0.4            |
| 3"        | PLG85             | 0.5            |
| 3-1/2"    | PLG95             | 0.5            |
| 4"        | PLG105            | 0.6            |

### RECESSED PLUGS

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT |
|-----------|-------------------|----------------|
| 1/2"      | * PLG1            | 0.2            |
| 3/4"      | * PLG2            | 0.2            |
| 1"        | * PLG3            | 0.3            |
| 1-1/4"    | † PLG4            | 0.3            |
| 1-1/2"    | † PLG5            | 0.3            |
| 2"        | † PLG6            | 0.3            |
| 2-1/2"    | † PLG7            | 0.3            |
| 3"        | † PLG8            | 0.4            |
| 3-1/2"    | † PLG9            | 0.4            |
| 4"        | † PLG10           | 0.5            |

\*Suitable for Groups A & B. †Suitable for Group B.



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## Conduit Expansion Joints

### Description:

Perma-Cote AX type expansion joints are used to connect two lengths of conduit subject to longitudinal movement, including that caused in long runs by thermal expansion and contraction.

### Features:

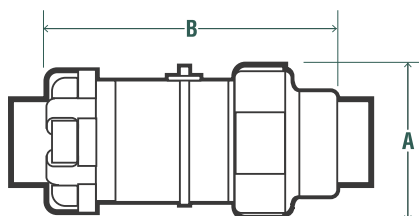
- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 10 trade sizes from 1/2" through 4"
- Sealing sleeves on all conduit openings
- Available with either 4" or 8" maximum movement
- Internally Grounded

### Standards:

- NEC Article 250-77
- NEC Article 300-7 (b)
- NEMA FB1



## Expansion Joints Technical Data



### 4" TRAVEL AX SERIES

| PIPE SIZE | FERROUS CATALOG # | A    | B     | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------|-------------------|------|-------|----------------|--------------------|
| 1/2"      | AX50              | 1.83 | 6.75  | 1.5            | AX50-A             |
| 3/4"      | AX75              | 2.20 | 6.75  | 2.9            | AX75-A             |
| 1"        | AX100             | 2.51 | 7.25  | 3.6            | AX100-A            |
| 1-1/4"    | AX125             | 3.27 | 7.56  | 3.8            | AX125-A            |
| 1-1/2"    | AX150             | 3.76 | 7.87  | 6.2            | AX150-A            |
| 2"        | AX200             | 4.83 | 8.25  | 7.3            | AX200-A            |
| 2-1/2"    | AX250             | 4.95 | 9.31  | 9.8            | -                  |
| 3"        | AX300             | 5.45 | 10.00 | 13.6           | AX300-A            |
| 3-1/2"    | AX350             | 6.70 | 9.81  | 16.1           | AX350-A            |
| 4"        | AX400             | 6.70 | 9.81  | 22.5           | AX400-A            |

### 8" TRAVEL AX SERIES

| PIPE SIZE | FERROUS CATALOG # | A    | B     | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------|-------------------|------|-------|----------------|--------------------|
| 1/2"      | AX850             | 1.83 | 10.75 | 1.9            | AX850-A            |
| 3/4"      | AX875             | 2.20 | 10.75 | 3.0            | AX875-A            |
| 1"        | AX8100            | 2.51 | 11.25 | 3.3            | AX8100-A           |
| 1-1/4"    | AX8125            | 3.27 | 11.56 | 4.7            | AX8125-A           |
| 1-1/2"    | AX8150            | 3.76 | 11.87 | 7.3            | AX8150-A           |
| 2"        | AX8200            | 4.83 | 12.25 | 10.7           | AX8200-A           |
| 2-1/2"    | AX8250            | 4.95 | 13.31 | 14.4           | AX8250-A           |
| 3"        | AX8300            | 5.45 | 14.00 | 15.9           | AX8300-A           |
| 3-1/2"    | AX8350            | 6.70 | 13.81 | 23.8           | AX8350-A           |
| 4"        | AX8400            | 6.70 | 13.81 | 25.7           | AX8400-A           |

# Conduit Unions



## Conduit Unions

### Description:

Perma-Cote UNF unions are used to connect conduit to conduit or to allow for future changes to the conduit system. Female threads are provided at each end. Perma-Cote UNY unions are used to connect conduit to a conduit fitting, junction box, or device enclosure. One end is a male thread and the other is female.

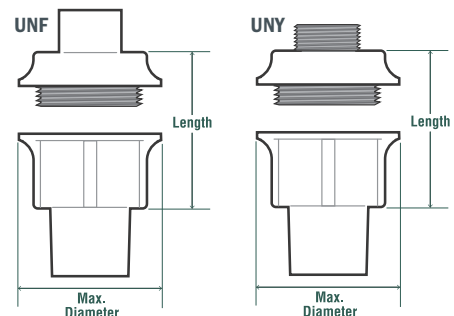
### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 13 trade sizes from 1/2" through 6"
- Sealing sleeves on all conduit openings
- Molded PVC gasket seals fitting

### Standards:

- NEC/CEC:
- UNF/UNY 1/2" through 1"
  - 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
- UNF/UNY 905, 1005
  - 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
- UNF, UNY - all sizes
  - 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

## Conduit Union Technical Data



### UNF

| PIPE SIZE   | FERROUS CATALOG # | NOMINAL WEIGHT | LENGTH | MAX DIA. | ALUMINUM CATALOG # |
|-------------|-------------------|----------------|--------|----------|--------------------|
| 1/2"        | UNF50             | 0.3            | 1.81   | 2.00     | UNF-50-A           |
| 3/4"        | UNF75             | 0.5            | 1.75   | 2.25     | UNF-75-A           |
| 3/4" - 1/2" | UNF75-50          | 0.6            | 1.75   | 2.25     | -                  |
| 1"          | UNF100            | 0.7            | 2.00   | 2.75     | UNF-100-A          |
| 1-1/4"      | UNF125            | 1.5            | 2.25   | 3.00     | UNF-125-A          |
| 1-1/2"      | UNF150            | 2.3            | 2.63   | 3.50     | UNF-150-A          |
| 2"          | UNF200            | 3.6            | 2.56   | 4.50     | UNF-200-A          |
| 2-1/2"      | UNF250            | 5.0            | 3.19   | 4.75     | UNF-250-A          |
| 3"          | UNF300            | 6.5            | 3.44   | 5.50     | UNF-300-A          |
| 3-1/2"      | UNF350            | 8.2            | 4.13   | 6.50     | UNF-350-A          |
| 4"          | UNF400            | 10.0           | 4.13   | 7.00     | UNF-400-A          |
| 5"          | UNF500            | 12.5           | 3.81   | 9.00     | -                  |
| 6"          | UNF600            | 14.8           | 3.81   | 10.25    | -                  |

### UNY

| PIPE SIZE   | FERROUS CATALOG # | NOMINAL WEIGHT | LENGTH | MAX DIA. | ALUMINUM CATALOG # |
|-------------|-------------------|----------------|--------|----------|--------------------|
| 1/2"        | UNY50             | 0.4            | 2.38   | 2.00     | UNY-50-A           |
| 3/4"        | UNY75             | 0.7            | 2.44   | 2.25     | UNY-75-A           |
| 3/4" - 1/2" | UNY75-50          | 0.8            | 2.44   | 2.25     | -                  |
| 1"          | UNY100            | 1.3            | 2.75   | 2.75     | UNY-100-A          |
| 1-1/4"      | UNY125            | 2.6            | 3.19   | 3.00     | UNY-125-A          |
| 1-1/2"      | UNY150            | 3.9            | 3.56   | 3.50     | UNY-150-A          |
| 2"          | UNY200            | 4.2            | 3.75   | 4.50     | UNY-200-A          |
| 2-1/2"      | UNY250            | 5.5            | 4.63   | 4.75     | UNY-250-A          |
| 3"          | UNY300            | 7.5            | 5.00   | 5.50     | UNY-300-A          |
| 3-1/2"      | UNY350            | 8.4            | 5.50   | 6.50     | UNY-350-A          |
| 4"          | UNY400            | 10.5           | 5.63   | 7.00     | UNY-400-A          |
| 5"          | UNY500            | 12.0           | 5.25   | 9.00     | -                  |
| 6"          | UNY600            | 14.9           | 5.38   | 10.25    | -                  |



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## LBY Series Service Entrance Elbows for Hazardous Locations

### Description:

Perma-Cote LBY type elbows are used as service entrance elbows between service entrance and vertical weatherhead conduit runs, to change direction of a conduit run 90° when space is limited, and for pull outlets. They may be used for general service or hazardous locations.

### Features:

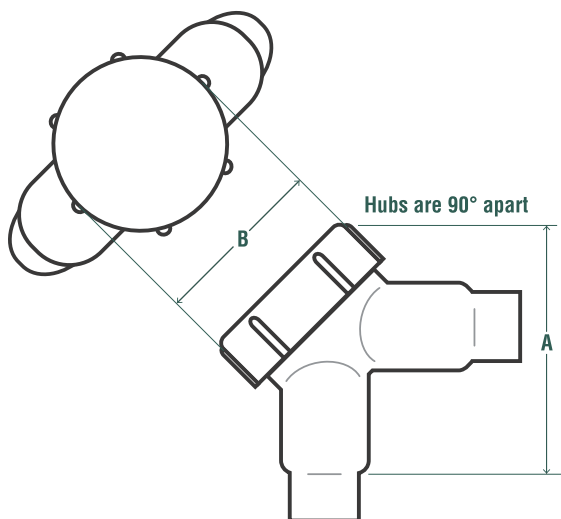
- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 5 trade sizes from 1/2" through 1-1/2"
- Sealing sleeves on all conduit openings
- Molded PVC gasket seals fitting cover to body

### Standards:

#### Series LBY-50 through LBY-150

- NEC/CEC
  - 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

## LBY Series Technical Data



### LBY SERIES – FOR HAZARDOUS LOCATIONS

| PIPE SIZE | FERROUS CATALOG # | A    | B    | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------|-------------------|------|------|----------------|--------------------|
| 1/2"      | LBY-50            | 2.81 | 2.08 | 1.0            | LBY-50-A           |
| 3/4"      | LBY-75            | 3.19 | 2.33 | 1.2            | LBY-75-A           |
| 1"        | LBY-100           | 3.25 | 2.58 | 1.7            | LBY-100-A          |
| 1-1/4"    | LBY-125           | 3.78 | 3.02 | 2.5            | LBY-125-A          |
| 1-1/2"    | LBY-150           | 4.5  | 3.46 | 2.7            | LBY-150-A          |

# Malleable Elbows



## Malleable Elbows

### Description:

Perma-Cote EL style malleable elbows are used in a conduit run to change direction 90° or to terminate at a fitting or box. They are available with male threads only, female threads only, or male and female threads.

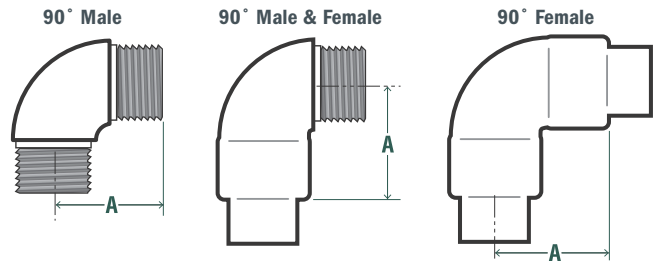
### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- Various configurations in 10 trade sizes from 1/2" through 4"
- Sealing sleeves on all conduit openings

### Standards:

- NEC/CEC:  
1/2", 3/4", 1"  
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
- All sizes  
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

## Malleable Elbows Technical Data



### MALLEABLE ELBOWS – 90° MALE-MALE

| PIPE SIZE | FERROUS CATALOG # | A    | NOMINAL WEIGHT |
|-----------|-------------------|------|----------------|
| 1/2"      | EL-195            | 1.44 | 0.3            |
| 3/4"      | EL-295            | 1.63 | 0.5            |
| 1"        | EL-395            | 1.88 | 0.7            |

### MALLEABLE ELBOWS – 90° MALE-FEMALE

| PIPE SIZE | FERROUS CATALOG # | A    | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------|-------------------|------|----------------|--------------------|
| 1/2"      | 8-50              | 1.53 | 0.3            | 8-50-A             |
| 3/4"      | 8-75              | 1.63 | 0.5            | 8-75-A             |
| 1"        | 8-100             | 1.88 | 1.2            | 8-100-A            |
| 1-1/4"    | 8-125             | 2.13 | 2.8            | -                  |

### MALLEABLE ELBOWS – 90° FEMALE-FEMALE

| PIPE SIZE | FERROUS CATALOG # | A    | NOMINAL WEIGHT | ALUMINUM CATALOG # |
|-----------|-------------------|------|----------------|--------------------|
| 1/2"      | EL-950            | 1.53 | 0.7            | EL-950-A           |
| 3/4"      | EL-975            | 1.75 | 0.9            | EL-975-A           |
| 1"        | EL-9100           | 2.00 | 1.2            | EL-9100-A          |
| 1-1/4"    | EL-9125           | 2.25 | 2.4            | EL-9125-A          |
| 1-1/2"    | EL-9150           | 4.00 | 3.0            | EL-9150-A          |
| 2"        | EL-9200           | 5.00 | 6.0            | EL-9200-A          |
| 2-1/2"    | EL-9250           | 6.44 | 7.9            | -                  |



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## GUA Series Conduit Outlet Boxes for Hazardous Locations

### Description:

Perma-Cote GUA series conduit outlet boxes are installed in hazardous location conduit systems to serve as pull and splice boxes, to change the direction of a conduit run, to connect runs of conduit, or to provide access to conductors. They are provided with covers as standard. Inquire about special covers to allow use to mount lighting fixtures or as sealing fittings. Electrical continuity of the conduit system is maintained across assembled joints.

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- Trade sizes from 1/2" through 2" in various styles and configurations
- Sealing sleeves on all conduit openings
- Neoprene O-ring is standard
- Molded-in PVC seal preserves venting characteristics of fitting but seals out corrosives
- Standard material is a cast iron alloy body with a copper-free aluminum cover. Consult Factory for availability of cast iron covers
- Internal green grounding screw is standard

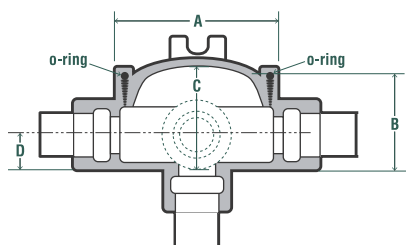


### Standards:

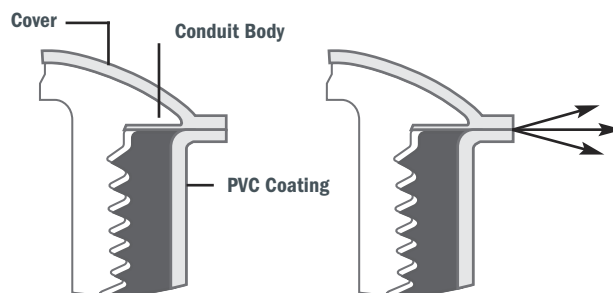
#### Steel and Aluminum

- UL 514A, 514D (E231035)
- CSA C22.2 No. 18, CSA C22.2 No. 42
- NEC/CEC:
  - 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
- ANSI Standard C-33.27
- NEMA/EEMAC 3,4

### GUA SERIES DIMENSIONS

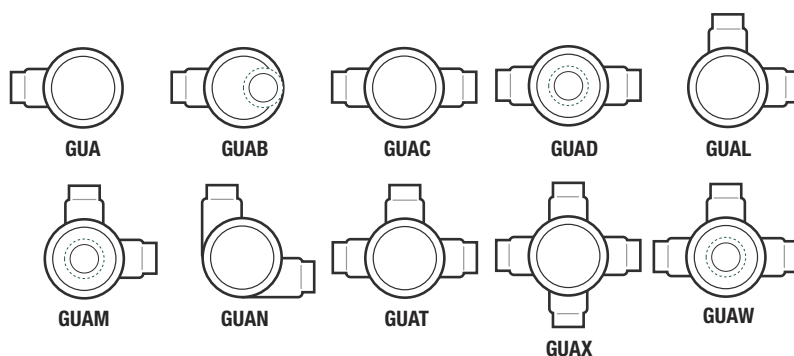


Variables referenced to  
the technical data charts



An integral PVC gasket on GUA type fittings preserves the venting characteristics of the uncoated fitting but prevents corrosive liquids from entering from the outside.

### GUA SERIES CONFIGURATIONS





# GUA Series Outlet Boxes

## GUA Series – Technical Data

### GUA

| PIPE SIZE | FERROUS CATALOG # | COVER OPENING | ALUMINUM CATALOG # | PRODUCT DIMENSIONS |      |      |      |
|-----------|-------------------|---------------|--------------------|--------------------|------|------|------|
|           |                   |               |                    | A                  | B    | C    | D    |
| 1/2"      | GUA14             | 2"            | -                  | 2.58               | 1.85 | 1.75 | 0.67 |
| 1/2"      | GUA16             | 3"            | -                  | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUA24             | 2"            | -                  | 2.58               | 2.04 | 2    | 0.79 |
| 3/4"      | GUA26             | 3"            | GUA26-A            | 3.58               | 2.04 | 1.88 | 0.79 |
| 1"        | GUA36             | 3"            | -                  | 3.58               | 2.35 | 2.19 | 0.92 |
| 1-1/4"    | GUA47             | 3-5/8"        | -                  | 4.33               | 2.73 | 2.75 | 1.13 |
| 1-1/2"    | GUA59             | 5"            | -                  | 5.83               | 3.85 | 3.75 | 1.32 |

### GUAC

| PIPE SIZE | FERROUS CATALOG # | COVER OPENING | NOMINAL WEIGHT | ALUMINUM CATALOG # | PRODUCT DIMENSIONS |      |      |      |
|-----------|-------------------|---------------|----------------|--------------------|--------------------|------|------|------|
|           |                   |               |                |                    | A                  | B    | C    | D    |
| 1/2"      | GUAC14            | 2"            | 3.5            | GUAC14-A           | 2.58               | 2.29 | 2.19 | 0.67 |
| 1/2"      | GUAC50            | 3"            | 2.0            | GUAC50-A           | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUAC24            | 2"            | 3.5            | GUAC24-A           | 2.58               | 2.04 | 2.00 | 0.79 |
| 3/4"      | GUAC75            | 3"            | 2.0            | GUAC75-A           | 3.58               | 2.04 | 1.88 | 0.79 |
| 1"        | GUAC100           | 3"            | 3.9            | GUAC100-A          | 3.58               | 2.35 | 2.19 | 0.92 |
| 1-1/4"    | GUAC125           | 3-5/8"        | 5.2            | GUAC125-A          | 4.33               | 2.73 | 2.75 | 1.13 |
| 1-1/4"    | GUAC49            | 5"            | 9.5            | -                  | 5.83               | 3.85 | 3.75 | 1.20 |
| 1-1/2"    | GUAC150           | 5"            | 11             | GUAC150-A          | 5.83               | 3.85 | 3.75 | 1.32 |
| 2"        | GUAC200           | 5"            | 11             | GUAC200-A          | 5.83               | 4.10 | 4.00 | 1.60 |

### GUAL

| PIPE SIZE | FERROUS CATALOG # | COVER OPENING | NOMINAL WEIGHT | ALUMINUM CATALOG # | PRODUCT DIMENSIONS |      |      |      |
|-----------|-------------------|---------------|----------------|--------------------|--------------------|------|------|------|
|           |                   |               |                |                    | A                  | B    | C    | D    |
| 1/2"      | GUAL14            | 2"            | 2.0            | GUAL14-A           | 2.58               | 1.85 | 1.75 | 0.67 |
| 1/2"      | GUAL50            | 3"            | 2.1            | GUAL50-A           | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUAL24            | 2"            | 3.2            | GUAL24-A           | 2.58               | 2.04 | 2.00 | 0.79 |
| 3/4"      | GUAL75            | 3"            | 2.5            | GUAL75-A           | 3.58               | 2.04 | 1.88 | 0.79 |
| 1"        | GUAL100           | 3"            | 3.7            | GUAL100-A          | 3.58               | 2.35 | 2.19 | 0.92 |
| 1-1/4"    | GUAL125           | 3-5/8"        | 5.2            | GUAL125-A          | 4.33               | 2.73 | 2.75 | 1.13 |
| 1-1/4"    | GUAL49            | 5"            | 8.5            | GUAL49-A           | 5.83               | 3.85 | 3.75 | 1.20 |
| 1-1/2"    | GUAL150           | 5"            | 11.2           | GUAL150-A          | 5.83               | 3.85 | 3.75 | 1.32 |
| 2"        | GUAL200           | 5"            | 12.5           | GUAL200-A          | 5.83               | 4.10 | 4.00 | 1.60 |

### GUAN

| PIPE SIZE | CATALOG # | COVER OPENING | NOMINAL WEIGHT | PRODUCT DIMENSIONS |      |      |      |
|-----------|-----------|---------------|----------------|--------------------|------|------|------|
|           |           |               |                | A                  | B    | C    | D    |
| 1/2"      | GUAN14    | 2"            | 2.0            | 2.58               | 2.17 | 2.06 | 0.67 |
| 1/2"      | GUAN16    | 3"            | 3.8            | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUAN24    | 2"            | 2.5            | 2.58               | 2.35 | 2.25 | 0.79 |
| 3/4"      | GUAN26    | 3"            | 3.5            | 3.58               | 2.04 | 1.88 | 0.79 |
| 1"        | GUAN36    | 3"            | 3.0            | 3.58               | 2.35 | 2.38 | 0.92 |
| 1-1/4"    | GUAN47    | 3-5/8"        | 5.2            | 4.33               | 2.73 | 2.75 | 1.13 |
| 1-1/2"    | GUAN59    | 5"            | 9.5            | 5.83               | 4.10 | 4.00 | 1.32 |
| 2"        | GUAN69    | 5"            | 12.0           | 5.83               | 4.10 | 4.00 | 1.60 |

### GUAW

| PIPE SIZE | CATALOG # | COVER OPENING | NOMINAL WEIGHT | ALUMINUM CATALOG # | PRODUCT DIMENSIONS |      |      |      |
|-----------|-----------|---------------|----------------|--------------------|--------------------|------|------|------|
|           |           |               |                |                    | A                  | B    | C    | D    |
| 1/2"      | GUAW14    | 2"            | 2              | -                  | 2.58               | 1.85 | 1.75 | 0.67 |
| 1/2"      | GUAW16    | 3"            | 2              | -                  | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUAW24    | 2"            | 3              | -                  | 2.58               | 2.04 | 2.00 | 0.79 |
| 3/4"      | GUAW26    | 3"            | 3              | GUAW26-A           | 3.58               | 2.04 | 1.88 | 0.79 |

### GUAB

| PIPE SIZE | FERROUS CATALOG # | COVER OPENING | NOMINAL WEIGHT | ALUMINUM CATALOG # | PRODUCT DIMENSIONS |      |      |      |
|-----------|-------------------|---------------|----------------|--------------------|--------------------|------|------|------|
|           |                   |               |                |                    | A                  | B    | C    | D    |
| 1/2"      | GUAB14            | 2"            | 2              | GUAB14-A           | 2.58               | 2.29 | 2.19 | 0.67 |
| 1/2"      | GUAB50            | 3"            | 3.2            | GUAB50-A           | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUAB24            | 2"            | 2.2            | -                  | 2.58               | 2.54 | 2.44 | 0.79 |
| 3/4"      | GUAB75            | 3"            | 3.3            | GUAB75-A           | 3.58               | 2.04 | 1.88 | 0.79 |
| 1"        | GUAB100           | 3"            | 3.8            | GUAB100-A          | 3.58               | 2.35 | 2.19 | 0.92 |
| 1-1/4"    | GUAB125           | 3-5/8"        | 5.0            | GUAB125-A          | 4.33               | 2.73 | 2.75 | 1.13 |
| 1-1/2"    | GUAB150           | 5"            | 8.1            | GUAB150-A          | 5.83               | 3.85 | 3.75 | 1.32 |
| 2"        | GUAB200           | 5"            | 9.1            | GUAB200-A          | 5.83               | 4.10 | 4.00 | 1.60 |

### GUAD

| PIPE SIZE | CATALOG # | COVER OPENING | NOMINAL WEIGHT | ALUMINUM CATALOG # | PRODUCT DIMENSIONS |      |      |      |
|-----------|-----------|---------------|----------------|--------------------|--------------------|------|------|------|
|           |           |               |                |                    | A                  | B    | C    | D    |
| 1/2"      | GUAD14    | 2"            | 2.0            | -                  | 2.58               | 1.85 | 1.75 | 0.67 |
| 1/2"      | GUAD16    | 3"            | 3.2            | -                  | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUAD24    | 2"            | 3.5            | -                  | 2.58               | 2.04 | 2.00 | 0.79 |
| 3/4"      | GUAD26    | 3"            | 3.8            | GUAD26-A           | 3.58               | 2.04 | 1.88 | 0.79 |
| 1"        | GUAD36    | 3"            | 3.8            | GUAD36-A           | 3.58               | 2.35 | 2.19 | 0.92 |
| 1-1/4"    | GUAD49    | 5"            | 10.9           | -                  | 5.83               | 3.85 | 3.75 | 1.13 |

### GUAM

| PIPE SIZE | FERROUS CATALOG # | COVER OPENING | NOMINAL WEIGHT | ALUMINUM CATALOG # | PRODUCT DIMENSIONS |      |      |      |
|-----------|-------------------|---------------|----------------|--------------------|--------------------|------|------|------|
|           |                   |               |                |                    | A                  | B    | C    | D    |
| 1/2"      | GUAM14            | 2"            | 2.0            | GUAM14-A           | 2.58               | 1.85 | 1.75 | 0.67 |
| 3/4"      | GUAM24            | 2"            | 2.2            | -                  | 2.58               | 2.04 | 2.00 | 0.79 |
| 1/2"      | GUAM16            | 3"            | 3.2            | -                  | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUAM26            | 3"            | 3.3            | -                  | 3.58               | 2.04 | 1.88 | 0.79 |
| 1"        | GUAM36            | 3"            | 3.8            | -                  | 3.58               | 2.35 | 2.19 | 0.92 |
| 1-1/4"    | GUAM47            | 3-5/8"        | 5.0            | -                  | 4.33               | 2.73 | 2.75 | 1.13 |
| 2"        | GUAM69            | 5"            | 9.1            | -                  | 5.83               | 4.10 | 4.00 | 1.60 |

### GUAT

| PIPE SIZE | FERROUS CATALOG # | COVER OPENING | NOMINAL WEIGHT | ALUMINUM CATALOG # | PRODUCT DIMENSIONS |      |      |      |
|-----------|-------------------|---------------|----------------|--------------------|--------------------|------|------|------|
|           |                   |               |                |                    | A                  | B    | C    | D    |
| 1/2"      | GUAT14            | 2"            | 2.0            | GUAT14-A           | 2.58               | 2.29 | 2.19 | 0.67 |
| 1/2"      | GUAT50            | 3"            | 2.8            | GUAT50-A           | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUAT24            | 2"            | 2.2            | GUAT24-A           | 2.58               | 2.04 | 2.00 | 0.79 |
| 3/4"      | GUAT75            | 3"            | 3.5            | GUAT75-A           | 3.58               | 2.04 | 1.88 | 0.79 |
| 1"        | GUAT100           | 3"            | 3.2            | GUAT100-A          | 3.58               | 2.35 | 2.19 | 0.92 |
| 1-1/4"    | GUAT125           | 3-5/8"        | 5.7            | GUAT125-A          | 4.33               | 2.73 | 2.75 | 1.13 |
| 1-1/2"    | GUAT150           | 5"            | 9.1            | GUAT150-A          | 5.83               | 3.85 | 3.75 | 1.32 |
| 2"        | GUAT200           | 5"            | 10.0           | GUAT200-A          | 5.83               | 4.10 | 4.00 | 1.60 |

### GUAX

| PIPE SIZE | FERROUS CATALOG # | COVER OPENING | NOMINAL WEIGHT | ALUMINUM CATALOG # | PRODUCT DIMENSIONS |      |      |      |
|-----------|-------------------|---------------|----------------|--------------------|--------------------|------|------|------|
|           |                   |               |                |                    | A                  | B    | C    | D    |
| 1/2"      | GUAX14            | 2"            | 2.0            | -                  | 2.58               | 1.85 | 1.75 | 0.67 |
| 1/2"      | GUAX50            | 3"            | 3.8            | GUAX50-A           | 3.58               | 2.04 | 1.88 | 0.67 |
| 3/4"      | GUAX24            | 2"            | 2.5            | GUAX24-A           | 2.58               | 2.04 | 2.00 | 0.79 |
| 3/4"      | GUAX75            | 3"            | 2.8            | GUAX75-A           | 3.58               | 2.04 | 1.88 | 0.79 |
| 1"        | GUAX100           | 3"            | 4.2            | GUAX100-A          | 3.58               | 2.35 | 2.19 | 0.92 |
| 1-1/4"    | GUAX125           | 3-5/8"        | 4.8            | GUAX125-A          | 4.33               | 2.73 | 2.75 | 1.13 |
| 1-1/2"    | GUAX150           | 5"            | 11.7           | GUAX150-A          | 5.83               | 3.85 | 3.75 | 1.32 |
| 2"        | GUAX200           | 5"            | 12.5           | GUAX200-A          | 5.83               | 4.10 | 4.00 | 1.60 |



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*These Perma-Cote sealing fittings should be used with a suitable system of sealing compound, such as Chico A, Chico X or Chico A-P from Crouse-Hinds. Follow the installation instructions included with the sealing compound.*

## Sealing Fittings

### Description:

Perma-Cote Sealing Fittings are used in conduit runs to stop gasses, vapors or flames from migrating from one part of the conduit system to another. This limits the spread of any potential explosion, enhancing safety. The PVC and urethane coatings of the fittings protect them from corrosive atmospheres so they can continue to function in hazardous locations. These fittings are available in several different configurations and with optional breathers and drains to accommodate installation in a variety of locations and positions. The EYD, EYDM, EYDEF and EZD styles of fittings are for installation in vertical conduit runs. The EYA, EYS, EYAM and EYSEF style fittings are for installation in either vertical or horizontal runs. The EZS and EYDM style fitting may be used in any angle of conduit run.

### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- 10 trade sizes from 1/2" through 4"
- Sealing sleeves on all conduit openings
- EYDEF and EYSEF seals have 40% wire fill capacity
- EYD, EYDM and EZD fittings include a drain for condensate
- EZD fittings may be used at any conduit angle and include drain

### Standards:

- NEC/CEC:

EY 50-100, EYA 50-100, EYM 50-100, EYAM 50-100

- 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

EYS 41-61, EYSEF 50-300, EYDEF 50-300

- 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

EYA 125-400, EYAM 125-400, EZS 50-300, EZDM 50-300, EYD 50-400, EYDM 50-400, EZD 50-200

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

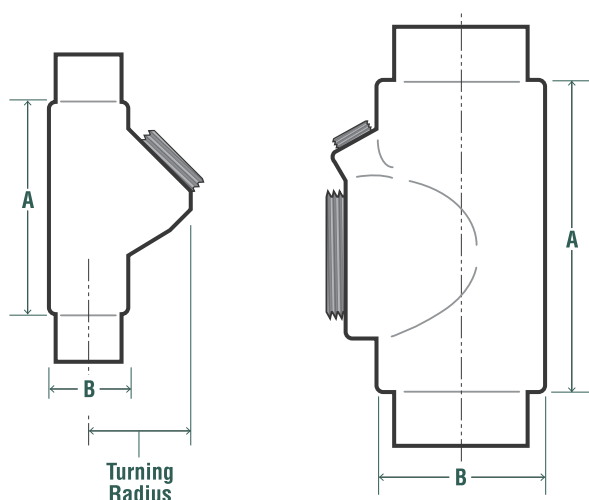
EYSEF 350-400

- 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

# Sealing Fittings

## Sealing Fittings Technical Data

These Perma-Cote sealing fittings should be used with a suitable system of sealing compound, such as Chico A, Chico X or Chico A-P from Crouse-Hinds. Follow the installation instructions included with the sealing compound.



### EYSEF - EXPANDED FILL FEMALE HUBS FOR SEALING IN VERTICAL OR HORIZONTAL POSITIONS

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A     | B    | TURNING RADIUS | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|-------|------|----------------|--------------------|
| 1/2"      | EYSEF-50          | 1.5            | 3.69  | 1.58 | 1.25           | EYSEF-50-A         |
| 3/4"      | EYSEF-75          | 2.1            | 4.31  | 1.83 | 1.38           | EYSEF-75-A         |
| 1"        | EYSEF-100         | 2.7            | 5.06  | 2.27 | 1.72           | EYSEF-100-A        |
| 1-1/4"    | EYSEF-125         | 3.7            | 6.25  | 3.08 | 2.31           | EYSEF-125-A        |
| 1-1/2"    | EYSEF-150         | 4.7            | 6.25  | 3.08 | 2.31           | EYSEF-150-A        |
| 2"        | EYSEF-200         | 6.7            | 8.50  | 4.33 | 3.31           | EYSEF-200-A        |
| 2-1/2"    | EYSEF-250         | 7.7            | 9.19  | 4.83 | 3.44           | EYSEF-250-A        |
| 3"        | EYSEF-300         | 8.7            | 9.75  | 5.33 | 3.69           | EYSEF-300-A        |
| 3-1/2"    | EYSEF-350         | 9.7            | 11.06 | 6.58 | 4.59           | EYSEF-350-A        |
| 4"        | EYSEF-400         | 10.7           | 11.06 | 6.58 | 4.59           | EYSEF-400-A        |

### EY - FEMALE HUBS

#### FOR SEALING IN VERTICAL POSITIONS ONLY

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | TURNING RADIUS | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|----------------|--------------------|
| 1/2"      | EY-50             | 1.0            | 3.28 | 1.33 | 1.63           | EY-50-A            |
| 3/4"      | EY-75             | 1.5            | 3.75 | 1.58 | 1.91           | EY-75-A            |
| 1"        | EY-100            | 2.1            | 4.31 | 1.83 | 2.38           | EY-100-A           |

### EYA - FEMALE HUBS

#### FOR SEALING IN VERTICAL OR HORIZONTAL POSITIONS

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | TURNING RADIUS | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|----------------|--------------------|
| 1/2"      | EYA-50            | 1.3            | 3.69 | 1.33 | 1.16           | EYA-50-A           |
| 3/4"      | EYA-75            | 1.1            | 3.69 | 1.58 | 1.25           | EYA-75-A           |
| 1"        | EYA-100           | 2.2            | 4.31 | 1.83 | 1.38           | EYA-100-A          |
| 1-1/4"    | EYA-125           | 2.7            | 5.06 | 2.27 | 1.72           | EYA-125-A          |
| 1-1/2"    | EYA-150           | 3.7            | 5.50 | 2.52 | 2.06           | EYA-150-A          |
| 2"        | EYA-200           | 4.7            | 6.25 | 3.08 | 2.31           | EYA-200-A          |
| 2-1/2"    | EYA-250           | 10.0           | 7.50 | 3.58 | 2.69           | EYA-250-A          |
| 3"        | EYA-300           | 11.2           | 8.50 | 4.33 | 3.31           | EYA-300-A          |
| 3-1/2"    | EYA-350           | 14.5           | 9.19 | 4.83 | 3.44           | EYA-350-A          |
| 4"        | EYA-400           | 16.0           | 9.75 | 5.33 | 3.69           | EYA-400-A          |

### EYM - MALE/FEMALE HUBS

#### FOR SEALING IN VERTICAL POSITIONS ONLY

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | TURNING RADIUS | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|----------------|--------------------|
| 1/2"      | EYM-50            | 1.5            | 3.28 | 1.33 | 1.63           | EYM-50-A           |
| 3/4"      | EYM-75            | 1.5            | 3.75 | 1.58 | 1.91           | EYM-75-A           |
| 1"        | EYM-100           | 2.3            | 4.31 | 1.83 | 2.38           | EYM-100-A          |

### EYS - FEMALE HUBS

#### FOR SEALING IN VERTICAL OR HORIZONTAL POSITIONS

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | TURNING RADIUS | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|----------------|--------------------|
| 1-1/4"    | EYS41             | 3.0            | 5.06 | 2.27 | 1.72           | EYS41-A            |
| 1-1/2"    | EYS51             | 3.8            | 5.50 | 2.52 | 2.06           | EYS51-A            |
| 2"        | EYS61             | 5.5            | 6.25 | 3.08 | 2.31           | EYS61-A            |

### EYAM - MALE/FEMALE HUBS FOR SEALING IN VERTICAL OR HORIZONTAL POSITIONS

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | TURNING RADIUS | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|----------------|--------------------|
| 1/2"      | EYAM-50           | 1.5            | 3.69 | 1.33 | 1.16           | EYAM-50-A          |
| 3/4"      | EYAM-75           | 1.2            | 3.69 | 1.58 | 1.25           | EYAM-75-A          |
| 1"        | EYAM-100          | 2.6            | 4.31 | 1.83 | 1.38           | EYAM-100-A         |
| 1-1/4"    | EYAM-125          | 2.8            | 5.06 | 2.27 | 1.72           | EYAM-125-A         |
| 1-1/2"    | EYAM-150          | 3.7            | 5.5  | 2.52 | 2.06           | EYAM-150-A         |
| 2"        | EYAM-200          | 5.6            | 6.25 | 3.08 | 2.31           | EYAM-200-A         |
| 2-1/2"    | EYAM-250          | 13.2           | 7.5  | 3.58 | 2.69           | EYAM-250-A         |
| 3"        | EYAM-300          | 11.2           | 8.5  | 4.33 | 3.31           | EYAM-300-A         |
| 3-1/2"    | EYAM-350          | 14.5           | 9.19 | 4.83 | 3.44           | EYAM-350-A         |
| 4"        | EYAM-400          | 1.5            | 9.75 | 5.33 | 3.69           | EYAM-400-A         |

Sealing Fittings continued on following pages...



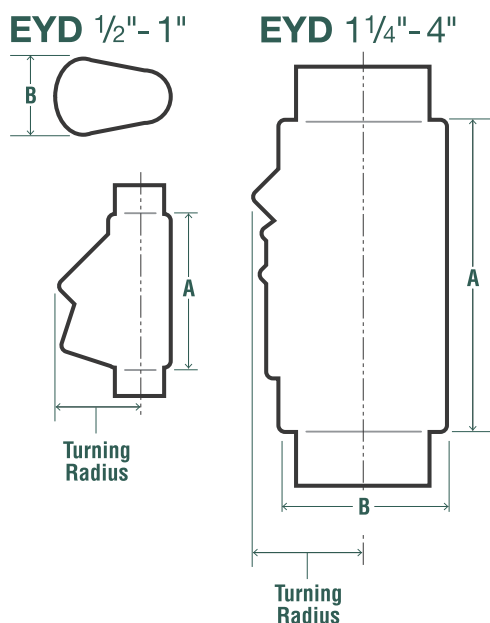
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## Sealing Fittings Technical Data

These Perma-Cote sealing fittings should be used with a suitable system of sealing compound, such as Chico A, Chico X or Chico A-P from Crouse-Hinds. Follow the installation instructions included with the sealing compound.



### EYD - FEMALE HUBS WITH DRAIN.

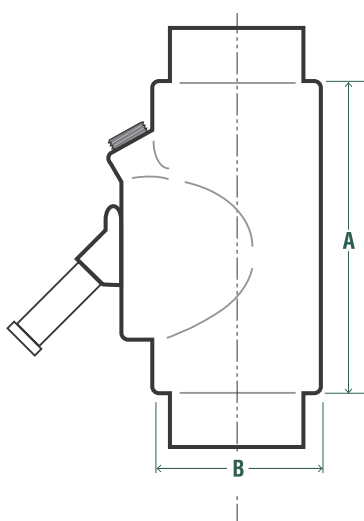
FOR SEALING IN VERTICAL POSITIONS ONLY.

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | TURNING RADIUS | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|----------------|--------------------|
| 1/2"      | EYD-50            | 1.4            | 3.28 | 1.33 | 1.63           | EYD-50-A           |
| 3/4"      | EYD-75            | 1.7            | 3.69 | 1.58 | 1.91           | EYD-75-A           |
| 1"        | EYD-100           | 2.3            | 4.31 | 2.27 | 2.38           | EYD-100-A          |
| 1-1/4"    | EYD-125           | 2.5            | 5.06 | 2.27 | 1.84           | EYD-125-A          |
| 1-1/2"    | EYD-150           | 4.0            | 5.50 | 2.52 | 2.06           | EYD-150-A          |
| 2"        | EYD-200           | 4.7            | 6.25 | 3.08 | 2.31           | EYD-200-A          |
| 2-1/2"    | EYD-250           | 9.0            | 7.50 | 3.58 | 2.69           | EYD-250-A          |
| 3"        | EYD-300           | 10.2           | 8.50 | 4.33 | 3.31           | EYD-300-A          |
| 3-1/2"    | EYD-350           | 10.5           | 9.19 | 4.83 | 3.44           | EYD-350-A          |
| 4"        | EYD-400           | 4.0            | 9.75 | 5.33 | 3.50           | EYD-400-A          |

### EYDM - MALE/FEMALE HUBS WITH DRAIN.

FOR SEALING IN VERTICAL POSITIONS ONLY

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | TURNING RADIUS | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|----------------|--------------------|
| 1/2"      | EYDM-50           | 2.7            | 3.28 | 1.33 | 1.63           | EYDM-50-A          |
| 3/4"      | EYDM-75           | 2.8            | 3.69 | 1.58 | 1.91           | EYDM-75-A          |
| 1"        | EYDM-100          | 2.9            | 4.31 | 2.27 | 2.38           | EYDM-100-A         |
| 1-1/4"    | EYDM-125          | 2.6            | 5.06 | 2.27 | 1.84           | EYDM-125-A         |
| 1-1/2"    | EYDM-150          | 3.7            | 5.5  | 2.52 | 2.06           | EYDM-150-A         |
| 2"        | EYDM-200          | 5.2            | 6.25 | 3.08 | 2.31           | EYDM-200-A         |
| 2-1/2"    | EYDM-250          | 9.5            | 7.5  | 3.58 | 2.69           | EYDM-250-A         |
| 3"        | EYDM-300          | 11.3           | 8.5  | 4.33 | 3.31           | EYDM-300-A         |
| 3-1/2"    | EYDM-350          | 12.5           | 9.19 | 4.83 | 3.44           | EYDM-350-A         |
| 4"        | EYDM-400          | 16.7           | 9.75 | 5.33 | 3.5            | EYDM-400-A         |



### EYDEF - EXPANDED FILL FEMALE HUBS WITH DRAIN.

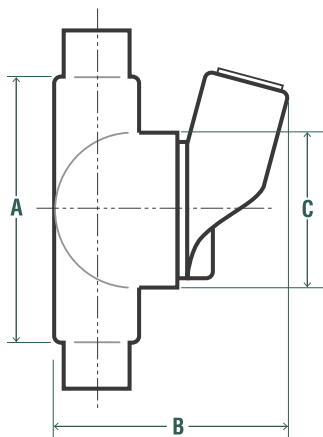
FOR SEALING IN VERTICAL POSITIONS ONLY.

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | TURNING RADIUS | ALUMINUM CATALOG # |
|-----------|-------------------|----------------|------|------|----------------|--------------------|
| 1/2"      | EYDEF-50          | 1.7            | 3.69 | 1.83 | 1.91           | EYDEF-50-A         |
| 3/4"      | EYDEF-75          | 2.3            | 4.31 | 2.27 | 2.38           | EYDEF-75-A         |
| 1"        | EYDEF-100         | 2.5            | 5.06 | 2.27 | 1.84           | EYDEF-100-A        |
| 1-1/4"    | EYDEF-125         | 4.0            | 6.25 | 3.08 | 2.31           | EYDEF-125-A        |
| 1-1/2"    | EYDEF-150         | 4.7            | 6.25 | 3.08 | 2.31           | EYDEF-150-A        |
| 2"        | EYDEF-200         | 9.0            | 8.50 | 4.33 | 3.31           | EYDEF-200-A        |
| 2-1/2"    | EYDEF-250         | 10.2           | 9.19 | 4.83 | 3.44           | EYDEF-250-A        |
| 3"        | EYDEF-300         | 10.5           | 9.75 | 5.33 | 3.50           | EYDEF-300-A        |

# Sealing Fittings

## Sealing Fittings Technical Data

These Perma-Cote sealing fittings should be used with a suitable system of sealing compound, such as Chico A, Chico X or Chico A-P from Crouse-Hinds. Follow the installation instructions included with the sealing compound.



### EZS - FEMALE HUBS.

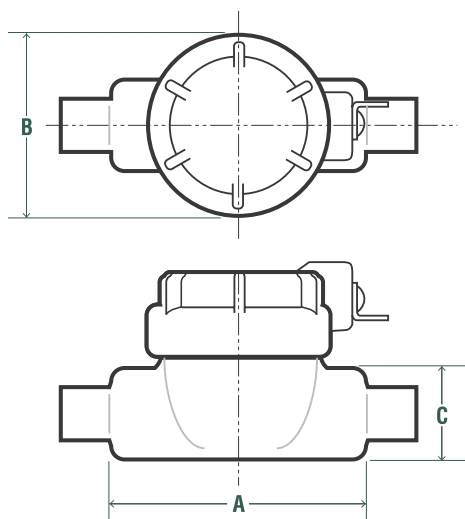
FOR SEALING IN ANY POSITION.

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | TURNING RADIUS |
|-----------|-------------------|----------------|------|------|------|----------------|
| 1/2"      | EZS-50            | 2.0            | 4.19 | 3.71 | 2.58 | 1.88           |
| 3/4"      | EZS-75            | 2.3            | 4.19 | 3.71 | 2.58 | 1.88           |
| 1"        | EZS-100           | 2.7            | 4.94 | 4.05 | 3.08 | 2.13           |
| 1-1/4"    | EZS-125           | 3.5            | 5.06 | 4.49 | 3.08 | 2.31           |
| 1-1/2"    | EZS-150           | 4.0            | 5.19 | 4.64 | 3.33 | 2.34           |
| 2"        | EZS-200           | 8.2            | 7.06 | 5.49 | 5.27 | 3.28           |
| 2-1/2"    | EZS-250           | 8.5            | 7.94 | 5.92 | 5.27 | 3.38           |
| 3"        | EZS-300           | 9.0            | 8.63 | 6.58 | 5.96 | 3.88           |

### EZDM - MALE/FEMALE HUBS WITH DRAIN.

FOR SEALING IN ANY POSITION.

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | TURNING RADIUS |
|-----------|-------------------|----------------|------|------|------|----------------|
| 1/2"      | EZDM-50           | 2.0            | 4.19 | 3.71 | 2.58 | 1.88           |
| 3/4"      | EZDM-75           | 2.4            | 4.19 | 3.71 | 2.58 | 1.88           |
| 1"        | EZDM-100          | 3.0            | 4.94 | 4.05 | 3.08 | 2.13           |
| 1-1/4"    | EZDM-125          | 4.0            | 5.06 | 4.49 | 3.08 | 2.31           |
| 1-1/2"    | EZDM-150          | 4.6            | 5.19 | 4.64 | 3.33 | 2.34           |
| 2"        | EZDM-200          | 6.9            | 7.06 | 5.49 | 5.27 | 3.28           |
| 2-1/2"    | EZDM-250          | 9.2            | 7.94 | 5.92 | 5.27 | 3.38           |
| 3"        | EZDM-300          | 8.7            | 8.63 | 6.58 | 5.96 | 3.88           |



### EZD - FEMALE HUBS.

WITH DRAIN AND INSPECTION COVER.

| PIPE SIZE | FERROUS CATALOG # | A    | B    | C    | TURNING RADIUS |
|-----------|-------------------|------|------|------|----------------|
| 1/2"      | EZD-50            | 4.19 | 3.08 | 3.46 | 2.06           |
| 3/4"      | EZD-75            | 4.19 | 3.08 | 3.71 | 2.19           |
| 1"        | EZD-100           | 4.94 | 3.58 | 3.96 | 2.44           |
| 1-1/4"    | EZD-125           | 4.94 | 3.58 | 4.39 | 2.63           |
| 1-1/2"    | EZD-150           | 5.19 | 3.58 | 4.64 | 2.69           |
| 2"        | EZD-200           | 7.13 | 5.64 | 5.33 | 3.69           |



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## OE Series Conduit Outlet Boxes for Hazardous Locations

### Description:

Perma-Cote OE Series Conduit Outlet Boxes are installed in hazardous location conduit systems to serve as pulling and splicing fittings, to connect runs of conduit, to change the direction of a conduit run, or to provide access to conductors. They are provided with covers. Electrical continuity of the conduit system is maintained across assembled joints.

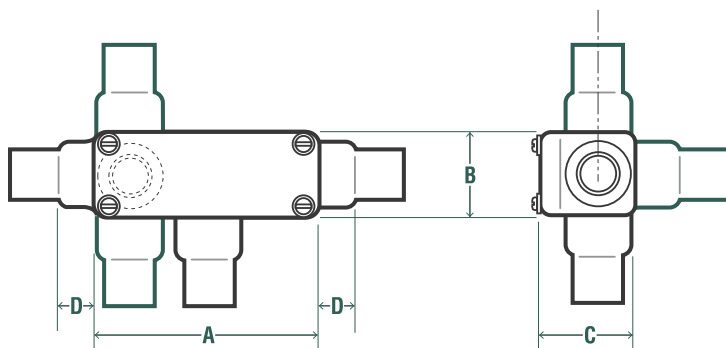
### Features:

- 40 mil gray PVC exterior coating
- 2 mil green urethane interior coating
- Available in 1/2" or 3/4" trade sizes
- Molded in PVC cover to body gasket seals corrosives out
- Sealing sleeves on all conduit openings
- Compact design saves space
- Encapsulated stainless steel cover screws

### Standards:

- NEC/CEC:
  - 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

## OE Series – Technical Data



### OELB OUTLET BOXES

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    |
|-----------|-------------------|----------------|------|------|------|------|
| 1/2"      | OELB50            | 2.2            | 4.14 | 1.64 | 1.89 | 0.69 |
| 3/4"      | OELB75            | 3.0            | 4.39 | 1.96 | 2.14 | 0.69 |

### OET OUTLET BOXES

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT | A    | B    | C    | D    |
|-----------|-------------------|----------------|------|------|------|------|
| 1/2"      | OET50             | 2.2            | 4.14 | 1.64 | 1.89 | 0.69 |
| 3/4"      | OET75             | 3.0            | 4.39 | 1.96 | 2.14 | 0.69 |

# Support Products

## Pipe Straps

Perma-Cote PVC coated pipe straps are used to securely mount conduit to a wall or other structure for support. They are available in two styles: a one-hole malleable iron strap or a two-hole stamped steel strap. Mounting hardware not provided.

### Features:

- 20 mil gray PVC exterior coating
- 10 trade sizes from 1/2" through 4"



### CONDUIT PIPE STRAP 1 HOLE

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WT. FOR 100 |
|-----------|-------------------|---------------------|
| 1/2"      | 14-50G            | 11                  |
| 3/4"      | 14-75G            | 14                  |
| 1"        | 14-100G           | 12                  |
| 1-1/4"    | 14-125G           | 25                  |
| 1-1/2"    | 14-150G           | 36                  |
| 2"        | 14-200G           | 71                  |
| 2-1/2"    | 14-250G           | 111                 |
| 3"        | 14-300G           | 134                 |
| 3-1/2"    | 14-350G           | 166                 |
| 4"        | 14-400G           | 256                 |

### CONDUIT PIPE STRAP 2 HOLE

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WT. FOR 100 |
|-----------|-------------------|---------------------|
| 1/2"      | HS-901            | 2.0                 |
| 3/4"      | HS-902            | 3.0                 |
| 1"        | HS-903            | 4.0                 |
| 1-1/4"    | HS-904            | 4.5                 |
| 1-1/2"    | HS-905            | 5.0                 |
| 2"        | HS-906            | 10.0                |
| 2-1/2"    | HS-907            | 13.0                |
| 3"        | HS-908            | 17.0                |
| 3-1/2"    | HS-909            | 20.0                |
| 4"        | HS-910            | 25.0                |

## Clamp Back Spacers

Perma-Cote PVC coated clamp back spacers are used with malleable or stamped pipe straps to provide a mounting stand-off for a conduit from a wall or other structure.

### Features:

- 20 mil gray PVC exterior coating
- 10 trade sizes from 1/2" through 4"



### CONDUIT CLAMP BACK SPACER

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WT. EACH |
|-----------|-------------------|------------------|
| 1/2"      | 141-G             | 0.1              |
| 3/4"      | 142-G             | 0.1              |
| 1"        | 143-G             | 0.1              |
| 1-1/4"    | 144-G             | 0.2              |
| 1-1/2"    | 145-G             | 0.2              |
| 2"        | 146-G             | 0.3              |
| 2-1/2"    | 147-G             | 1.0              |
| 3"        | 148-G             | 1.7              |
| 4"        | 150-G             | 2.0              |

## Conduit Clamp Hangers

Perma-Cote PVC coated conduit clamp hangers are used with threaded rod to securely suspend conduit runs supported from above. They are provided with stainless steel hardware.

### Features:

- 20 mil gray PVC exterior coating
- 10 trade sizes from 1/2" through 4"



### CONDUIT HANGER

| PIPE SIZE | CATALOG # | NOMINAL WEIGHT |
|-----------|-----------|----------------|
| 1/2"      | H0WBS     | 0.1            |
| 3/4"      | H1WBS     | 0.1            |
| 1"        | H2WBS     | 0.1            |
| 1-1/4"    | H3WBS     | 0.1            |
| 1-1/2"    | H4WBS     | 0.2            |
| 2"        | H5WBS     | 0.3            |
| 2-1/2"    | H6WBS     | 0.4            |
| 3"        | H7WBS     | 0.5            |
| 3-1/2"    | H8WBS     | 0.6            |
| 4"        | H9WBS     | 0.7            |

## Thread Rods

Perma-Cote PVC coated all thread rod is used with coated conduit hangers and coated strut to securely suspend conduit runs supported from above. It is provided in 3/8" and 1/2" sizes and three standard lengths, 3', 6' and 10'.

### Features:

- 20 mil gray PVC exterior coating
- 2 trade sizes and 3 standard lengths



### THREAD RODS

| SIZE       | CATALOG #   |
|------------|-------------|
| 3/8" X 3'  | ATR-375X36  |
| 3/8" X 6'  | ATR-375X72  |
| 3/8" X 10' | ATR-375X120 |
| 1/2" X 3'  | ATR-050X36  |
| 1/2" X 6'  | ATR-050X72  |
| 1/2" X 10' | ATR-050X120 |



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## PVC Coated Strut Straps and J Hangers

Perma-Cote PVC coated strut straps & J hangers are used with coated strut to support conduit installations in a variety of configurations. Strut straps may be used in either vertical or horizontal positions to support conduit. Both are provided with stainless steel hardware. Conduit spacing may be as close together as allowed by the couplings. J hangers may be used with hanger rods or other means of support to securely fasten conduit runs.

### Features:

- 20 mil gray PVC exterior coating
- Available in 11 trade sizes



J Hanger

Strut Straps

### PVC COATED J HANGERS

| SIZE   | FERROUS CATALOG # | WEIGHT FOR 100 PCS | STD PACK |
|--------|-------------------|--------------------|----------|
| 1/2"   | B3690-1/2         | 18                 | 25       |
| 3/4"   | B3690-3/4         | 21                 | 25       |
| 1"     | B3690-1           | 22                 | 25       |
| 1-1/4" | B3690-1-1/4       | 25                 | 25       |
| 1-1/2" | B3690-1-1/2       | 27                 | 25       |
| 2"     | B3690-2           | 29                 | 25       |
| 2-1/2" | B3690-2-1/2       | 64                 | 25       |
| 3"     | B3690-3           | 72                 | 25       |
| 3-1/2" | B3690-3-1/2       | 84                 | 25       |
| 4"     | B3690-4           | 138                | 10       |
| 5"     | B3690-5           | 162                | 10       |

### PVC COATED STRUT STRAPS

| SIZE   | FERROUS CATALOG # | GAUGE METAL | WEIGHT FOR 100 PCS | STD PACK |
|--------|-------------------|-------------|--------------------|----------|
| 1/2"   | B2008             | 14          | 13.0               | 100      |
| 3/4"   | B2009             | 14          | 15.0               | 100      |
| 1"     | B2010             | 14          | 17.0               | 100      |
| 1-1/4" | B2011             | 12          | 19.5               | 100      |
| 1-1/2" | B2012             | 12          | 28.0               | 100      |
| 2"     | B2013             | 12          | 31.0               | 50       |
| 2-1/2" | B2014             | 12          | 36.0               | 50       |
| 3"     | B2015             | 12          | 42.0               | 50       |
| 3-1/2" | B2016             | 11          | 56.0               | 25       |
| 4"     | B2017             | 11          | 64.0               | 25       |
| 5"     | B2019             | 10          | 76.0               | 25       |

## PVC Coated Ferrous Struts

Perma-Cote PVC coated strut is a versatile system of structural elements that can be used to build supports for a variety of applications. When combined with coated conduit hangers and other accessories, coated strut is a versatile and economical way to provide reliable support for conduit runs and other electrical and mechanical installations.

### Features:

- 20 mil gray PVC exterior coating
- 2 trade sizes and 3 standard styles



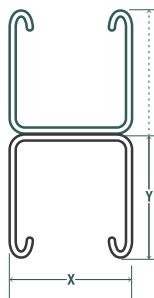
P1001

P1000

SH1000

P3300

SH3300



### PVC COATED STRUT

| FERROUS CATALOG # | DESCRIPTION             | NOMINAL WT. PER 100 FT. | X    | Y    | STRUT THICKNESS |
|-------------------|-------------------------|-------------------------|------|------|-----------------|
| P1000-10          | Channel                 | 200                     | 1.67 | 1.67 | 12 ga.          |
| SH1000-10         | Channel Slotted         | 185                     | 1.67 | 1.67 | 12 ga.          |
| P1001-10          | Channel Back to Back    | 380                     | 1.67 | 3.29 | 12 ga.          |
| P3300-10          | Channel Shallow         | 135                     | 1.67 | 0.92 | 12 ga.          |
| SH3300-10         | Channel Shallow Slotted | 130                     | 1.67 | 0.92 | 12 ga.          |

### PVC COATED STRUT CUT-TO-LENGTH

| FERROUS CATALOG # | DESCRIPTION   | X    | Y    | LENGTH IN FT. | STRUT THICKNESS |
|-------------------|---------------|------|------|---------------|-----------------|
| P1000-1           | 1-5/8 CHANNEL | 1.67 | 1.67 | 1             | 12 ga.          |
| P1000-1-1/2       | 1-5/8 CHANNEL | 1.67 | 1.67 | 1-1/2         | 12 ga.          |
| P1000-2           | 1-5/8 CHANNEL | 1.67 | 1.67 | 2             | 12 ga.          |
| P1000-2-1/2       | 1-5/8 CHANNEL | 1.67 | 1.67 | 2-1/2         | 12 ga.          |
| P1000-3           | 1-5/8 CHANNEL | 1.67 | 1.67 | 3             | 12 ga.          |

### CHANNELS WITH SLOTTED HOLES

|              |               |      |      |       |        |
|--------------|---------------|------|------|-------|--------|
| SH1000-1     | 1-5/8 CHANNEL | 1.67 | 1.67 | 1     | 12 ga. |
| SH1000-1-1/2 | 1-5/8 CHANNEL | 1.67 | 1.67 | 1-1/2 | 12 ga. |
| SH1000-2     | 1-5/8 CHANNEL | 1.67 | 1.67 | 2     | 12 ga. |
| SH1000-2-1/2 | 1-5/8 CHANNEL | 1.67 | 1.67 | 2-1/2 | 12 ga. |
| SH1000-3     | 1-5/8 CHANNEL | 1.67 | 1.67 | 3     | 12 ga. |

## PVC Coated Strut Nuts

Perma-Cote PVC coated strut nuts are used to assemble strut components and to secure coated all thread rod in a section of strut. These are available with or without a spring to aid in placement and assembly.

### Features:

- 20 mil gray PVC exterior coating
- 10 trade sizes from 1/2" through 4"



N225-WO



N225



N2500

### COATED STRUT NUT

| PIPE SIZE | FERROUS CATALOG # |
|-----------|-------------------|
| 3/8"      | N228-WO           |
| 1/2"      | N225-WO           |
| 3/8"      | N228              |
| 1/2"      | N225              |
| 3/8"      | N2500-375         |
| 1/2"      | N2500-050         |

# Support Products

## Beam Clamps and U-Bolts

Perma-Cote PVC coated beam clamps are used to securely support conduit runs by attaching them to beams, angles, trusses and other structural members. They are available in the following styles:

**Window Clamp** - To attach strut at a 90° angle to a beam or structural member.

**Parallel** - to attach the conduit run parallel to a beam or structural member.

**Edge** - to attach the conduit run at a 90° angle to a thin beam or structural member.

**Right Angle** - to attach the conduit run at a 90° angle to a beam or structural member.

**U-Bolt** - To attach the conduit run to a structural member or support.

**Hanger Rod Beam Clamp** - to attach a single all thread rod to a beam or structural member.

### Features:

- 20 mil minimum gray PVC exterior coating on all types of beam clamps
- Right angle clamps supplied with plastic encapsulated screws
- All clamps specifically sized to fit PVC coated conduit
- Right angle and parallel clamps available in 10 trade sizes 1/2" through 4"
- Edge clamps available in 3 trade sizes 1/2" through 1"
- Hanger rod beam clamps available with 5 different jaw openings 15/16" through 2-1/8"



### STRUT WINDOW BEAM CLAMPS

| FERROUS CATALOG # | NOMINAL WEIGHT |
|-------------------|----------------|
| B441-22           | 0.9            |
| B441-22A          | 0.9            |

### PVC COATED NUTS

| FERROUS CATALOG # | DESCRIPTION                            |
|-------------------|----------------------------------------|
| NUT-KIT-1         | 5/16" ENC NUTS-RA, UBLT 1/2" to 1-1/4" |
| NUT-KIT-2         | 3/8" ENC NUTS-RA, UBLT 1-1/2" to 6"    |



Parallel Beam Clamp



Edge Beam Clamp



Right Angle Beam Clamp



U-Bolt

### PARALLEL CONDUIT CLAMP

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT |
|-----------|-------------------|----------------|
| 1/2"      | UPC-50            | 46.8           |
| 3/4"      | UPC-75            | 63.0           |
| 1"        | UPC-100           | 67.0           |
| 1-1/4"    | UPC-125           | 100.0          |
| 1-1/2"    | UPC-150           | 130.0          |
| 2"        | UPC-200           | 158.0          |
| 2-1/2"    | UPC-250           | 175.0          |
| 3"        | UPC-300           | 200.0          |
| 3-1/2"    | UPC-350           | 250.0          |
| 4"        | UPC-400           | 275.0          |

### EDGE STYLE CONDUIT CLAMP

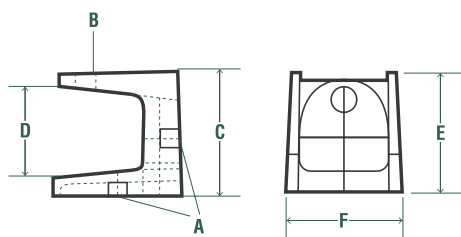
| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT |
|-----------|-------------------|----------------|
| 1/2"      | UEC-50            | 74.0           |
| 3/4"      | UEC-75            | 90.0           |
| 1"        | UEC-100           | 100.0          |

### RIGHT ANGLE CONDUIT CLAMP

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT |
|-----------|-------------------|----------------|
| 1/2"      | RA-50             | 49.0           |
| 3/4"      | RA-75             | 53.0           |
| 1"        | RA-100            | 61.0           |
| 1-1/4"    | RA-125            | 65.0           |
| 1-1/2"    | RA-150            | 92.0           |
| 2"        | RA-200            | 100.0          |
| 2-1/2"    | RA-250            | 125.0          |
| 3"        | RA-300            | 150.0          |
| 3-1/2"    | RA-350            | 175.0          |
| 4"        | RA-400            | 198.0          |

### CONDUIT U-BOLT

| PIPE SIZE | FERROUS CATALOG # | NOMINAL WEIGHT |
|-----------|-------------------|----------------|
| 1/2"      | U-050-PVC         | 17.0           |
| 3/4"      | U-075-PVC         | 18.0           |
| 1"        | U-100-PVC         | 20.0           |
| 1-1/4"    | U-125-PVC         | 20.0           |
| 1-1/2"    | U-150-PVC         | 31.0           |
| 2"        | U-200-PVC         | 34.0           |
| 2-1/2"    | U-250-PVC         | 39.0           |
| 3"        | U-300-PVC         | 44.0           |
| 3-1/2"    | U-350-PVC         | 45.0           |
| 4"        | U-400-PVC         | 49.0           |
| 5"        | U-500-PVC         | 100.0          |
| 6"        | U-600-PVC         | 130.0          |



### BEAM CLAMPS

| PIPE SIZE | FERROUS CATALOG # | A       | B          | C      | D   | E     | F     | NOMINAL WEIGHT | MAXIMUM LOAD |
|-----------|-------------------|---------|------------|--------|-----|-------|-------|----------------|--------------|
| 1"        | IS-500            | 1/4-20  | 5/16-1-1/8 | 1-3/8  | 7/8 | 1-1/4 | 1-1/8 | 25             | 500          |
| 1-1/4"    | IS-501            | 5/16-18 | 3/8-16     | 1-3/4  | 7/8 | 1-5/8 | 1-1/2 | 50             | 800          |
| 1-1/2"    | IS-502            | 3/8-16  | 1/2-13     | 2-1/16 | 7/8 | 2     | 2     | 90             | 2000         |
| 2"        | IS-503            | 1/2-13  | 1/2-13     | 2-5/8  | 1   | 1-1/4 | 1-1/8 | 195            | 2000         |
| 2-1/2"    | IS-508            | 1/2-13  | 1/2-13     | 2-1/4  | 7/8 | 2-1/2 | 2-5/8 | 25             | 4000         |



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## Spin-It



With the Perma-Cote **Spin-It**, Perma-Cote can be tightened much faster than with conventional tools. Because the **Spin-It** never touches the coating, damage to the conduit is eliminated.

| CATALOG #     | DESCRIPTION    |
|---------------|----------------|
| SPIN-IT-3/4   | 3/4" SPIN-IT   |
| SPIN-IT-1     | 1" SPIN-IT     |
| SPIN-IT-1-1/4 | 1-1/4" SPIN-IT |
| SPIN-IT-1-1/2 | 1-1/2" SPIN-IT |
| SPIN-IT-2     | 2" SPIN-IT     |

## Plasti-Socket



**Plasti-Socket** is a fiber-glass encapsulated 3/8" drive socket for use with the square fiberglass encapsulated U bolt and beam clamp nuts used in the Perma-Cote conduit support system. The **Plasti-Socket** helps avoid coating damage from metal sockets, pliers or wrenches.

| CATALOG #        | DESCRIPTION        |
|------------------|--------------------|
| PLASTISOCKET-3/8 | 3/8" Plasti-Socket |

## Z-Wrench



**Z-Wrench** features extra wide jaws which spread the clamping force, enabling the tool to grip without marring the surface of the conduit. The "V" shaped upper jaw allows **Z-Wrench** to accommodate a wide range of conduit sizes. Shallow grooves in the upper and lower jaws provide an excellent grip.

| CATALOG # | DESCRIPTION              |
|-----------|--------------------------|
| JPZ1      | 1/2" - 1-1/4" Z-Wrench   |
| JPZ2      | 1-1/2" - 2-1/2" Z-Wrench |

## JAWS 3



**JAWS 3** are a set of aluminum-nickel-bronze vise jaws designed to replace the regular jaws in a RIGID #23 or #40-A pipe vise. They completely protect the exterior coating from damage caused by the vise jaws when cutting or threading.

| CATALOG #   | DESCRIPTION                  |
|-------------|------------------------------|
| JAWS3-#23   | JAWS3 #23 PIPE VISE          |
| JAWS3-#40-A | JAWS3 #40-A TRIPOD PIPE VISE |

## Half Shell Clamps



**Half Shell Clamps** are designed to cover a large surface area when clamping conduit, especially in a chain vise. This allows for a strong grip without damaging the exterior coating.

| CATALOG #        | DESCRIPTION                     |
|------------------|---------------------------------|
| HLF-SHL-CLP2     | 2" HALF-SHELL CONDUIT CLAMP     |
| HLF-SHL-CLP2-1/2 | 2-1/2" HALF-SHELL CONDUIT CLAMP |
| HLF-SHL-CLP3     | 3" HALF-SHELL CONDUIT CLAMP     |
| HLF-SHL-CLP3-1/2 | 3-1/2" HALF-SHELL CONDUIT CLAMP |
| HLF-SHL-CLP4     | 4" HALF-SHELL CONDUIT CLAMP     |
| HLF-SHL-CLP5     | 5" HALF-SHELL CONDUIT CLAMP     |
| HLF-SHL-CLP6     | 6" HALF-SHELL CONDUIT CLAMP     |

## Hickey



The **Perma-Cote Hickey** is a special bending tool with a 40 mil PVC coating which reduces the possibility of damage during conduit bending.

| CATALOG # | DESCRIPTION                |
|-----------|----------------------------|
| HICKEY    | 1/2" & 3/4" Conduit Bender |

## Touch Up Compounds

Perma-Cote Touch Up Compounds are available to repair minor damage to the interior urethane or exterior PVC factory coatings. The exterior PVC touchup compound is gray and available in a 12 oz. aerosol can, and a pint can with brush-top applicator.

The approved thread compound touchup compound is available in a pint can with a brush-top applicator.

See the installation section of the buyers' guide for more information on using the Perma-Cote touchup compounds.

### PERMA-COTE TOUCH UP COMPOUNDS

| CATALOG #       | DESCRIPTION                                 | SIZE   |
|-----------------|---------------------------------------------|--------|
| TC-1700         | Exterior Spray Type (Gray)                  | 12 oz. |
| TC-1600         | Exterior Non-Spray with Brush-Top (Gray)    | 1 pt.  |
| THREAD-COMPOUND | Approved Conductive Compound-Brush-Top Pint | 1 pt.  |





# Installer Certification

## Installer Certification

Perma-Cote is a system providing the best available exterior and interior protection against corrosion. Proper installation is essential to ensure the best possible service life for a conduit system. To ensure the best possible PVC coated conduit installation it is recommended that installers are certified.

Qualified installation provides these benefits:

Everyone benefits!

- **The End User...**  
...receives optimum installation quality and best possible service life.
- **The Professional...**  
... benefits because of obvious concern for providing only the best to the end-user.
- **The Contractor...**  
... achieves more cost-effective installation.

Perma-Cote Installer Certification is based upon training that includes classroom and hands-on instruction encompassing:

- Proper installation techniques and tools.
- Hands-on instruction for clamping, cutting, threading, bending, and assembly of PVC coated conduit.
- Interactive discussion of techniques and troubleshooting.

Only installers who are able to present the authorized, unexpired credentials of having passed our instruction and examination are officially certified to install Perma-Cote's top quality products.

Installer certification is free of charge and available at the job site, contractor's shop, factory, or wherever it is convenient to you! For more information about Installer Certification, contact Perma-Cote at 903.843.4388.

|                                                                                                                                                              |  |                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|
|  <b>PERMA-COTE</b>                                                          |  | <b>Certified Installer</b>                                                          |
| On _____, 20____                                                                                                                                             |  |  |
| John Doe                                                                                                                                                     |  | PC000000                                                                            |
| NAME                                                                                                                                                         |  |                                                                                     |
| successfully completed the Installer Certification Exam<br>and is hereby designated a Certified Installer for PVC coated conduit.                            |  |                                                                                     |
| SIGNED _____                                                                                                                                                 |  | EXPIRATION DATE _____                                                               |
| Perma-Cote: 1100 US Highway 271 South • Gilmer, TX 75644<br>Tel: 903/843-4388 • Fax: 903/843-2655 • <a href="http://www.permacote.com">www.permacote.com</a> |  |                                                                                     |



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## Urethane Interior Coating Chemical Resistance Chart

| SOLUTIONS                   | CONC. | TEMP. | RECOMMENDED EXPOSURE |        |           |
|-----------------------------|-------|-------|----------------------|--------|-----------|
|                             |       |       | FUMES                | SPLASH | IMMERSION |
| Acetic Acid                 | 10%   | 75° F | YES                  | YES    | NO        |
| Acid Copper Plating Sol.    | Any   | 75° F | YES                  | YES    | NO        |
| Alkaline Cleaners           | Any   | 75° F | YES                  | YES    | NO        |
| Aluminum Chloride           | Sat'd | 75° F | YES                  | YES    | NO        |
| Aluminum Sulfate            | Sat'd | 75° F | YES                  | YES    | NO        |
| Alums                       | Sat'd | 75° F | YES                  | YES    | NO        |
| Ammonium Chloride           | Sat'd | 75° F | YES                  | YES    | NO        |
| Ammonium Hydroxide          | 28%   | 75° F | YES                  | YES    | NO        |
| Ammonium Hydroxide          | 10%   | 75° F | YES                  | YES    | NO        |
| Ammonium Sulfate            | Sat'd | 75° F | YES                  | YES    | NO        |
| Ammonium Thiocyanate        | Sat'd | 75° F | YES                  | YES    | NO        |
| Amyl Alcohol                | Sat'd | 75° F | YES                  | YES    | YES       |
| Arsenic Acids               | Any   | 75° F | YES                  | YES    | NO        |
| Barium Sulfide              | Sat'd | 75° F | YES                  | YES    | NO        |
| Black Liquor                | Sat'd | 75° F | YES                  | YES    | NO        |
| Benzoic Acid                | Sat'd | 75° F | YES                  | YES    | NO        |
| Brass Plating Solution      | Sat'd | 75° F | YES                  | YES    | NO        |
| Bromine Water               | Sat'd | 75° F | YES                  | YES    | NO        |
| Butyl Alcohol               | Any   | 75° F | YES                  | YES    | NO        |
| Cadmium Plating Sol.        | Any   | 75° F | YES                  | YES    | NO        |
| Cadmium Bisulfate           | Any   | 75° F | YES                  | YES    | NO        |
| Calcium Chloride            | Sat'd | 75° F | YES                  | YES    | NO        |
| Calcium Hypochlorite        | Sat'd | 75° F | YES                  | YES    | NO        |
| Carbonic Acid               | Sat'd | 75° F | YES                  | YES    | NO        |
| Casein                      | Any   | 75° F | YES                  | YES    | NO        |
| Castor Oil                  | Any   | 75° F | YES                  | YES    | YES       |
| Caustic Soda                | 35%   | 75° F | YES                  | YES    | NO        |
| Caustic Soda                | 10%   | 75° F | YES                  | YES    | NO        |
| Caustic Potash              | 35%   | 75° F | YES                  | YES    | NO        |
| Caustic Potash              | 10%   | 75° F | YES                  | YES    | NO        |
| Chlorine Water              | Sat'd | 75° F | YES                  | YES    | NO        |
| Chromium Plating Sol.       | Any   | 75° F | YES                  | YES    | NO        |
| Citric Acid                 | Sat'd | 75° F | YES                  | YES    | NO        |
| Copper Chloride             | Sat'd | 75° F | YES                  | YES    | NO        |
| Copper Cyanide Plating Sol. | Any   | 75° F | YES                  | YES    | NO        |
| Copper Sulfate              | Sat'd | 75° F | YES                  | YES    | NO        |
| Coconut Oil                 | Sat'd | 75° F | YES                  | YES    | YES       |
| Cottonseed Oil              | Sat'd | 75° F | YES                  | YES    | YES       |
| Disodium Phosphate          | Sat'd | 75° F | YES                  | YES    | NO        |
| Ethyl Alcohol               | Any   | 75° F | YES                  | YES    | NO        |
| Ethylene Glycol             | Any   | 75° F | YES                  | YES    | YES       |
| Ferrous Sulfate             | Sat'd | 75° F | YES                  | YES    | NO        |
| Fluoboric Acid              | Any   | 75° F | YES                  | YES    | NO        |
| Formaldehyde                | 37%   | 75° F | YES                  | YES    | NO        |
| Formic Acid                 | 85%   | 75° F | YES                  | YES    | NO        |
| Gallic Acid                 | Sat'd | 75° F | YES                  | YES    | NO        |
| Glucose                     | Any   | 75° F | YES                  | YES    | YES       |
| Glycerine                   | Any   | 75° F | YES                  | YES    | YES       |
| Gold Plating Solution       | Any   | 75° F | YES                  | YES    | NO        |
| Hydrochloric Acid           | 10%   | 75° F | YES                  | YES    | NO        |
| Hydrochloric Acid           | 21.5% | 75° F | YES                  | YES    | NO        |
| Hydrochloric Acid           | 37.5% | 75° F | YES                  | YES    | NO        |
| Hydrofluoric Acid           | 4%    | 75° F | YES                  | YES    | NO        |
| Hydrofluoric Acid           | 10%   | 75° F | YES                  | YES    | NO        |
| Hydrofluoric Acid           | 48%   | 75° F | YES                  | YES    | NO        |
| Hydrogen Peroxide           | 30%   | 75° F | YES                  | YES    | NO        |
| Hydroquinone                | Any   | 75° F | YES                  | YES    | NO        |
| Indium Plating Solution     | Any   | 75° F | YES                  | YES    | NO        |
| Lactic Acid                 | Any   | 75° F | YES                  | YES    | NO        |
| Lead Plating Solution       | Any   | 75° F | YES                  | YES    | NO        |

| SOLUTIONS                               | CONC.       | TEMP. | RECOMMENDED EXPOSURE |        |           |
|-----------------------------------------|-------------|-------|----------------------|--------|-----------|
|                                         |             |       | FUMES                | SPLASH | IMMERSION |
| Malic Acid                              | Any         | 75° F | YES                  | YES    | NO        |
| Methyl Alcohol                          | Any         | 75° F | YES                  | YES    | NO        |
| Mineral Oils                            | Any         | 75° F | YES                  | YES    | YES       |
| Nickel Acetate                          | Sat'd       | 75° F | YES                  | YES    | NO        |
| Nickel Plating Solution                 | Any         | 75° F | YES                  | YES    | NO        |
| Nickel Salts                            | Sat'd       | 75° F | YES                  | YES    | NO        |
| Nitric Acid                             | 35%         | 75° F | YES                  | YES    | NO        |
| Nitric Acid                             | 40%         | 75° F | YES                  | YES    | NO        |
| Nitric Acid                             | 60%         | 75° F | YES                  | YES    | NO        |
| Nitric/Hydrofluoric Acid                | 15%/4%      | 75° F | YES                  | YES    | NO        |
| Nitric Acid/<br>Sodium Dichromate Water | 16%/13%/71% | 75° F | YES                  | YES    | NO        |
| Oleic Acid                              | Any         | 75° F | YES                  | YES    | NO        |
| Oxalic Acid                             | Any         | 75° F | YES                  | YES    | NO        |
| Phenol                                  | Sat'd       | 75° F | YES                  | YES    | NO        |
| Phosphoric Acid                         | 75%         | 75° F | YES                  | YES    | NO        |
| Phosphoric Acid                         | 85%         | 75° F | YES                  | YES    | NO        |
| Potassium Acid Sulfate                  | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Antimonate                    | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Bisulfite                     | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Chloride                      | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Cuprocyanide                  | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Cyanide                       | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Dichromate                    | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Hypochlorate                  | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Sulfide                       | Sat'd       | 75° F | YES                  | YES    | NO        |
| Potassium Thiosulfate                   | Sat'd       | 75° F | YES                  | YES    | NO        |
| Propyl Alcohol                          | Sat'd       | 75° F | YES                  | YES    | NO        |
| Rhodium Plating Solution                | Sat'd       | 75° F | YES                  | YES    | NO        |
| Silver Plating Solution                 | Sat'd       | 75° F | YES                  | YES    | NO        |
| Soaps                                   | Any         | 75° F | YES                  | YES    | NO        |
| Sodium Acid Sulfate                     | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Antimonate                       | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Bicarbonate                      | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Bisulfite                        | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Chloride                         | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Cyanide                          | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Dichromate                       | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Hydroxide                        | 10%         | 75° F | YES                  | YES    | NO        |
| Sodium Hydroxide                        | 35%         | 75° F | YES                  | YES    | NO        |
| Sodium Hydroxide                        | 73%         | 75° F | YES                  | YES    | NO        |
| Sodium Hypochlorite                     | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Hypochlorite                     | 15%         | 75° F | YES                  | YES    | NO        |
| Sodium Sulfide                          | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sodium Thiosulfate                      | Sat'd       | 75° F | YES                  | YES    | NO        |
| Sulfuric Acid                           | 15%         | 75° F | YES                  | YES    | NO        |
| Sulfuric Acid                           | 50%         | 75° F | YES                  | YES    | NO        |
| Sulfuric Acid                           | 70%         | 75° F | YES                  | YES    | NO        |
| Sulfuric Acid                           | 98%         | 75° F | YES                  | YES    | NO        |
| Sulfurous Acid                          | 2%          | 75° F | YES                  | YES    | NO        |
| Sulfurous Acid                          | 4%          | 75° F | YES                  | YES    | NO        |
| Tannic Acid                             | Sat'd       | 75° F | YES                  | YES    | NO        |
| Tartaric Acid                           | Sat'd       | 75° F | YES                  | YES    | NO        |
| Tin Chloride                            | Sat'd       | 75° F | YES                  | YES    | NO        |
| Tin Plating Solution                    | Sat'd       | 75° F | YES                  | YES    | NO        |
| Triethanolamine                         | Sat'd       | 75° F | YES                  | YES    | NO        |
| Trisodium Phosphate                     | Sat'd       | 75° F | YES                  | YES    | NO        |
| White Liquor                            | Sat'd       | 75° F | YES                  | YES    | NO        |
| Zinc Plating Solution                   | Sat'd       | 75° F | YES                  | YES    | NO        |
| Zinc Sulfate                            | Sat'd       | 75° F | YES                  | YES    | NO        |

## PVC Exterior Coating Chemical Resistance Chart

| SOLUTIONS                   | CONC. | TEMP. | RECOMMENDED EXPOSURE |        |           |
|-----------------------------|-------|-------|----------------------|--------|-----------|
|                             |       |       | FUMES                | SPLASH | IMMERSION |
| Acetic Acid                 | 10%   | 120   | NO                   | NO     | NO        |
| Acid Copper Plating Sol.    |       | 160   | YES                  | YES    | YES       |
| Alkaline Cleaners           |       | 160   | YES                  | YES    | YES       |
| Aluminum Chloride           | Sat'd | 160   | YES                  | YES    | YES       |
| Aluminum Sulfate            | Sat'd | 160   | YES                  | YES    | YES       |
| Alums                       | Sat'd | 160   | YES                  | YES    | YES       |
| Ammonium Chloride           | Sat'd | 160   | YES                  | YES    | YES       |
| Ammonium Hydroxide          | 28%   | 120   | YES                  | YES    | YES       |
| Ammonium Hydroxide          | 10%   | 120   | YES                  | YES    | YES       |
| Ammonium Sulfate            | Sat'd | 160   | YES                  | YES    | YES       |
| Ammonium Thiocyanate        | Sat'd | 160   | YES                  | YES    | YES       |
| Amyl Alcohol                | Any   | 90    | YES                  | YES    | YES       |
| Arsenic Acids               | Any   | 150   | YES                  | YES    | YES       |
| Barium Sulfide              | Sat'd | 160   | YES                  | YES    | YES       |
| Black Liquor                | Sat'd | 90    | YES                  | YES    | YES       |
| Benzoic Acid                | Sat'd | 160   | YES                  | YES    | YES       |
| Brass Plating Solution      | Any   | 160   | YES                  | YES    | YES       |
| Bromine Water               | Sat'd | 120   | YES                  | YES    | YES       |
| Butyl Alcohol               | Any   | 90    | YES                  | YES    | YES       |
| Cadmium Plating Sol.        | Any   | 150   | YES                  | YES    | YES       |
| Cadmium Bisulfate           | Any   | 150   | YES                  | YES    | YES       |
| Calcium Chloride            | Sat'd | 160   | YES                  | YES    | YES       |
| Calcium Hypochlorite        | Sat'd | 120   | YES                  | YES    | YES       |
| Carbonic Acid               | Sat'd | 160   | YES                  | YES    | YES       |
| Casein                      | Any   | 90    | YES                  | YES    | YES       |
| Castor Oil                  | Any   | 90    | YES                  | YES    | YES       |
| Caustic Soda                | 35%   | 120   | YES                  | YES    | YES       |
| Caustic Soda                | 10%   | 150   | YES                  | YES    | YES       |
| Caustic Potash              | 35%   | 120   | YES                  | YES    | YES       |
| Caustic Potash              | 10%   | 150   | YES                  | YES    | YES       |
| Chlorine Water              | Sat'd | 90    | YES                  | YES    | YES       |
| Chromium Plating Sol.       | Any   | 150   | YES                  | YES    | YES       |
| Citric Acid                 | Sat'd | 160   | YES                  | YES    | YES       |
| Copper Chloride             | Sat'd | 160   | YES                  | YES    | YES       |
| Copper Cyanide Plating Sol. | Any   | 160   | YES                  | YES    | YES       |
| (High Speed)                | Any   | 180   | YES                  | YES    | YES       |
| (with Alkali Cyanides)      | Sat'd | 160   | YES                  | YES    | YES       |
| Copper Sulfate              | Sat'd | 160   | YES                  | YES    | YES       |
| Coconut Oil                 | Sat'd | 90    | YES                  | YES    | YES       |
| Cottonseed Oil              | Sat'd | 90    | YES                  | YES    | YES       |
| Disodium Phosphate          | Sat'd | 160   | YES                  | YES    | YES       |
| Ethyl Alcohol               | Any   | 90    | YES                  | YES    | YES       |
| Ethylene Glycol             | Any   | 90    | YES                  | YES    | NO        |
| Ferric Chloride             | 45%   | 120   | YES                  | YES    | YES       |
| Ferrous Sulfate             | Sat'd | 150   | YES                  | YES    | YES       |
| Fluoboric Acid              | Any   | 150   | YES                  | YES    | YES       |
| Formaldehyde                | 37%   | 120   | YES                  | YES    | YES       |
| Formic Acid                 | 85%   | 100   | NO                   | NO     | NO        |
| Gallic Acid                 | Sat'd | 150   | YES                  | NO     | NO        |
| Glucose                     | Any   | 150   | YES                  | YES    | YES       |
| Glycerine                   | Any   | 90    | YES                  | YES    | YES       |
| Gold Plating Solution       | Any   | 150   | YES                  | YES    | YES       |
| Hydrochloric Acid           | 10%   | 120   | YES                  | YES    | YES       |
| Hydrochloric Acid           | 21.5% | 120   | YES                  | YES    | YES       |
| Hydrochloric Acid           | 37.5% | 120   | YES                  | YES    | NO        |
| Hydrochloric Acid           | 37.5% | 90    | YES                  | YES    | NO        |
| Hydrofluoric Acid           | 4%    | 140   | YES                  | YES    | NO        |
| Hydrofluoric Acid           | 10%   | 120   | YES                  | YES    | NO        |
| Hydrofluoric Acid           | 48%   | 120   | YES                  | YES    | NO        |
| Hydrogen Peroxide           | 30%   | 120   | YES                  | YES    | YES       |
| Hydrogen Sulfide            | Sat'd | 120   | YES                  | YES    | YES       |
| Hydroquinone                | Any   | 90    | YES                  | YES    | YES       |
| Indium Plating Solution     | Any   | 150   | YES                  | YES    | YES       |

| SOLUTIONS                           | CONC.       | TEMP. | RECOMMENDED EXPOSURE |        |           |
|-------------------------------------|-------------|-------|----------------------|--------|-----------|
|                                     |             |       | FUMES                | SPLASH | IMMERSION |
| Lactic Acid                         | 50%         | 120   | YES                  | YES    | YES       |
| Lactic Acid                         | Any         | 90    | YES                  | YES    | YES       |
| Lead Plating Solution               | Any         | 150   | YES                  | YES    | YES       |
| Malic Acid                          | Any         | 90    | YES                  | YES    | YES       |
| Methyl Alcohol                      | Any         | 90    | YES                  | YES    | YES       |
| Mineral Oils                        | Any         | 90    | YES                  | YES    | YES       |
| Nickel Acetate                      | Sat'd       | 160   | YES                  | YES    | YES       |
| Nickel Plating Solution             |             | 160   | YES                  | YES    | YES       |
| Nickel Salts                        | Sat'd       | 160   | YES                  | YES    | YES       |
| Nitric Acid                         | 35%         | 120   | YES                  | YES    | NO        |
| Nitric Acid                         | 40%         | 90    | YES                  | YES    | NO        |
| Nitric Acid                         | 60%         | 120   | YES                  | YES    | NO        |
| Nitric/Hydrofluoric Acid            | 15%/4%      | 140   | YES                  | YES    | YES       |
| Nitric Acid/Sodium Dichromate Water | 16%/13%/71% | 130   | YES                  | YES    | YES       |
| Oleic Acid                          | Any         | 90    | YES                  | YES    | YES       |
| Oxalic Acid                         |             | 90    | YES                  | YES    | YES       |
| Phenol                              | Sat'd       | 120   | NO                   | NO     | NO        |
| Phosphoric Acid                     | 75%         | 150   | YES                  | YES    | YES       |
| Phosphoric Acid                     | 85%         | 120   | YES                  | YES    | YES       |
| Potassium Acid Sulfate              | Sat'd       | 150   | YES                  | YES    | YES       |
| Potassium Antimonate                | Sat'd       | 150   | YES                  | YES    | YES       |
| Potassium Bisulfite                 | Sat'd       | 90    | YES                  | YES    | YES       |
| Potassium Chloride                  | Sat'd       | 160   | YES                  | YES    | YES       |
| Potassium Cuprocyanide              | Sat'd       | 150   | YES                  | YES    | YES       |
| Potassium Cyanide                   | Sat'd       | 160   | YES                  | YES    | YES       |
| Potassium Dichromate                | Sat'd       | 160   | YES                  | YES    | YES       |
| Potassium Hypochlorite              | Sat'd       | 90    | YES                  | YES    | NO        |
| Potassium Sulfide                   | Sat'd       | 150   | YES                  | YES    | YES       |
| Potassium Thiosulfate               | Sat'd       | 150   | YES                  | YES    | YES       |
| Propyl Alcohol                      | Sat'd       | 150   | YES                  | YES    | YES       |
| Rhodium Plating Solution            | Sat'd       | 150   | YES                  | YES    | YES       |
| Silver Plating Solution             | Sat'd       | 150   | YES                  | YES    | YES       |
| Soaps                               | Any         | 90    | YES                  | YES    | YES       |
| Sodium Acid Sulfate                 | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Antimonate                   | Sat'd       | 150   | YES                  | YES    | YES       |
| Sodium Bicarbonate                  | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Bisulfite                    | Sat'd       | 90    | YES                  | YES    | YES       |
| Sodium Chloride                     | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Cyanide                      | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Dichromate                   | Sat'd       | 160   | YES                  | YES    | YES       |
| Sodium Hydroxide                    | 10%         | 150   | YES                  | YES    | NO        |
| Sodium Hydroxide                    | 35%         | 120   | YES                  | YES    | NO        |
| Sodium Hydroxide                    | 73%         | 160   | NO                   | NO     | NO        |
| Sodium Hypochlorite                 | Sat'd       | 90    | YES                  | YES    | NO        |
| Sodium Hypochlorite                 | 15%         | 120   | YES                  | YES    | NO        |
| Sodium Sulfide                      | Sat'd       | 150   | YES                  | YES    | YES       |
| Sodium Thiosulfate                  | Sat'd       | 150   | YES                  | YES    | YES       |
| Sulfuric Acid                       | 15%         | 120   | YES                  | YES    | YES       |
| Sulfuric Acid                       | 50%         | 120   | YES                  | YES    | YES       |
| Sulfuric Acid                       | 70%         | 90    | YES                  | YES    | NO        |
| Sulfuric Acid                       | 98%         | 100   | YES                  | NO     | NO        |
| Sulfurous Acid                      | 2%          | 120   | YES                  | YES    | NO        |
| Sulfurous Acid                      | 6%          | 120   | YES                  | YES    | NO        |
| Tannic Acid                         | Sat'd       | 90    | YES                  | YES    | YES       |
| Tartaric Acid                       | Sat'd       | 90    | YES                  | YES    | YES       |
| Tin Chloride                        | Sat'd       | 150   | YES                  | YES    | YES       |
| Tin Plating Solution                | Sat'd       | 150   | YES                  | YES    | YES       |
| Triethanolamine                     | Sat'd       | 150   | YES                  | YES    | YES       |
| Trisodium Phosphate                 | Sat'd       | 150   | YES                  | YES    | YES       |
| White Liquor                        | Sat'd       | 90    | YES                  | YES    | YES       |
| Zinc Plating Solution               |             | 160   | YES                  | YES    | YES       |
| Zinc Sulfate                        | Sat'd       | 160   | YES                  | YES    | YES       |



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## Perma-Cote Performance Standards/Descriptions

Exterior PVC and interior urethane coating performance shall be confirmed by the characteristics and tests listed below. Test samples shall be selected at random.

### FLAMMABILITY

The PVC coating will burn if subjected to sustained flame or heat above 400°F, however, it will self extinguish upon removal of the heat source or flame.

### TOXICITY

Prolonged exposure to heat greater than 200°F or exposure to fire may cause the PVC coating to release harmful emissions which could pose a potential health hazard. Therefore, PVC use is not recommended in areas exposed to sustained temperatures above 200°F. If exposed to fire, particularly in closed areas, users should be aware and observe proper caution.

### BOIL TEST

Acceptable conduit coating bonds shall be confirmed if there is no disbondment after a minimum average of 200 hours in boiling water or exposure to steam vapor at one atmosphere. The periodic increments between bond tests shall not exceed 5 hours for the first 25 hours, then it may be lengthened by mutual consent. The RN1 Bond Test and the Standard Method for Measuring Adhesion by Tape Test shall be utilized.

#### Exterior Adhesion

A 6" length of conduit test specimen shall be placed in boiling water. The specimen shall be periodically removed, cooled to ambient temperature and immediately tested according to the bond test (RN1). When the PVC coating separates from the substrate, the boil time to failure in hours shall be recorded. ASTM D870 describes this test method for accelerated testing of coating adhesive bonds.

#### Interior Adhesion

A 6" conduit test specimen shall be cut in half longitudinally and placed in boiling water or directly above boiling water with the urethane surface facing down. The specimen shall be periodically removed, cooled to ambient temperature and tested in accordance with the Standard Method of Adhesion by Tape Test (ASTM D3359). When the coating disbands, the time to failure in hours shall be recorded.

### HEAT/HUMIDITY TEST

Acceptable conduit coating bonds shall be confirmed by a minimum average of 30 days in the Heat and Humidity Test. The periodic increment between bond tests shall not exceed 5 days for the first 30 days, then may be lengthened by mutual consent. The RN1 Bond Test and the Standard Method for Measuring Adhesion by Tape Test shall be utilized.

#### Exterior Adhesion

Conduit specimens shall be placed in a heat and humidity environment where the temperature is maintained at 150°F (66°C) and 95% relative humidity. The specimens shall be periodically removed and a bond test (RN1) performed. When the PVC coating separates from the substrate, the exposure time to failure in days shall be recorded. ASTM D1151, D1735, D2247 AND D4585 are the basis for this accelerated method of evaluating adhesive bonding.

#### Interior Adhesion

The conditions for interior adhesion testing of conduit specimens are the same as those for external adhesion. ASTM D3359 is used to determine adhesive failure.

### ETL-VERIFIED PVC-001:

The PVC coating adhesion performance of this product has been ETL verified to the Intertek ETL SEMKO High Temperature H<sub>2</sub>O PVC Coating Adhesion Test Procedure for 200 hours.

### CHEMICAL RESISTANCE TEST

No trace of the internal coating shall be visible on a white cloth following six wipes over the coating which has been wetted with acetone (ASTM D1308).

### POLYURETHANE

The supplier shall confirm that the internal coating which meets the above condition is a polyurethane.

Perma-Cote has used the American Society for Testing and Materials (ASTM) standards to provide comparable and consistent test data. A list of ASTM standards referenced in the Perma-Cote Coated Conduit Specification appears below.

#### ASTM B1117

Standard Practice for Operating Salt Spray (Fog) Apparatus

#### ASTM D149

Test Methods for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies

#### ASTM D638

Test Method for Tensile Properties of Plastics

#### ASTM D746

Test Method for Brittleness Temperature of Plastics and Elastomers by Impact

#### ASTM D870

Method for Water Immersion Test of Organic Coatings on Steel

#### ASTM D1151

Test Method for Effect of Moisture and Temperature on Adhesive Bonds

#### ASTM D1654

Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments

#### ASTM D1735

Method for Water Fog Testing of Organic Coatings

#### ASTM D2240

Test Method for Rubber Property-Durometer Hardness

#### ASTM D2247

Method of Testing Coated Metal Specimens at 100% Relative Humidity

#### ASTM D2444

Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tap (Falling Weight)

#### ASTM D3359

Method for Measuring Adhesion by Tape Test

#### ASTM D4585

Testing Water Resistance of Coatings Using Controlled Condensation

#### ASTM D1308

Effect of Chemicals on Clear and Pigmented Organic Finishes

#### ASTM G153

Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Non-Metallic Materials

#### ASTM G155

Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials





Price: \$5.00



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**PM-112**

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Perma-Cote PVC-coated galvanized rigid conduit and fittings provide unequalled corrosion protection. Manufactured in the U.S.A., ISO 9001-certified Perma-Cote complies with all standards mandated by UL6, NEMA RN-1 and ANSI C80.1. Plus — Perma-Cote is ETL-Verified for product performance and reliable longevity ten or more times longer than brands that are not ETL-Verified. Look for the combined ETL/UL label to be sure you are receiving the protection you've paid for!