Prysmian Group

BICON

# North American Cable Glands

PRYSMIAN

Draka

## Linking the future

As the worldwide leader in the cable industry, Prysmian Group believes in the effective, efficient and sustainable supply of energy and information as a primary driver in the development of communities.

With this in mind, we provide major global organisations in many industries with best-in-class cable and accessory solutions, based on state-of-the-art technology. Through two renowned commercial brands - Prysmian and Draka – based in almost 50 countries, we're constantly close to our customers, enabling them to further develop the world's energy and telecoms infrastructures, and achieve sustainable, profitable growth.

In our energy business, we design, produce, distribute and install cables and systems for the transmission and distribution of power at low, medium, high and extra high voltage.

In telecoms, the Group is a leading manufacturer of all types of copper and fibre cables, systems and accessories - covering voice, video and data transmission.

Drawing on over 130 years' experience and continuously investing in R&D, we apply excellence, understanding and integrity to everything we do, meeting and exceeding the precise needs of our customers across all continents, at the same time shaping the evolution of our industry.

## What links the oil and gas industry from end to end?

**Cable solutions to support the sector around the world**

In applications ranging from drilling, extraction and storage equipment to platform and processing facilities operation, Prysmian's state-of-the-art cable systems support many major customers in the oil, gas and petrochemical industry, along with related businesses.

Whether they're deployed in Brazil, the Gulf of Mexico, the North Sea or South-East Asia, our cable solutions are proving their value in harsh off shore and onshore environments; helping customers minimize environmental impact and achieve sustainable, profitable growth.

Prysmian Group's dedicated Components facility based in Wrexham, Wales manufactures and supplies the market with products which are widely used in industrial, commercial and domestic power distribution systems. In addition it offers products for more specialist applications such as Utilities, Railways, Oil, Gas and Petrochemical, Hazardous Areas, Wind and Solar Energy. Today's BICON® product ranges represent over 100 years of cable accessory development

and quality engineering building on the pedigree of our previous company names - going back to BICC. Of course Prysmian Group's Components products are the perfect installation accessory for the Company's vast range of quality, approved cables.

Prysmian Group's comprehensive component product range includes:

- BICON® Cable Glands
- BICON® Cable Cleats
- BICAST® Joints & Terminations
- BICON® Connectors and Tooling
- Flexo® Modular Power Systems
- Flexo® Rail products
- JEM™ Resin
- Connecta System®

From its UK base, Prysmian Group's components is able to efficiently service the needs of its UK and overseas customers and offers a high level of pre-sales and post-sales customer service.

For further information please contact:

International Sales Office: **+44 2380 295481**
**www.biconcomponents.co.uk**

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BICON's range of compact barrier glands provides an efficient and cost-effective means of terminating electrical cable in hazardous areas. The BICON barrier gland range includes designs for a variety of different types and sizes of cable, all of which offer a number of benefits when compared with existing types of fittings for use in hazardous areas. The BICON glands are filled with a two-part electrically insulating compound with a quick curing time. This sets hard, encapsulating the insulated conductors and completely sealing the interstices. BICON barrier glands have been designed for fast and easy installation - no poured seals and no fibre damming. Installation is quick and simple with assembly, set and cure taking only a fraction of the time necessary for the old type of poured-seals which are electrically conductive. And, because it is designed to compress the compound when being assembled there is no opportunity for voids to form. As well as being easy to install, the BICON barrier connectors are easy to inspect as the compound chamber has been specifically designed to facilitate a quick visual check after assembly. Not only can the BICON barrier gland be installed at any angle - their unusually compact dimensions mean that they are considerably lighter and smaller than traditional poured seals. This also results in space saving giving the system designer greater flexibility in locations where space is at a premium and also allows installers to do a faster job. Each size of connector can accommodate a wide range of cable sizes, thanks to features such as the self-adjusting armor connections and the weak back type of outer seal. This large sealing range not only ensures a good, accurate fit every time, but also makes selection easy and considerably reduces connector inventory and inventory cost. The running coupling concept within the BICON barrier connector allows the cable to be withdrawn from the equipment without destroying the seal integrity of the termination. No extra union couplings are required. So if a piece of equipment has to be repaired or replaced, cable disconnection and reconnection is a quick and easy job.

BICON's barrier connectors have been accepted by authorities all over the world; In North America they hold both UL & CSA approvals for both Marine and industrial environments.

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# North American Explosion Proof Glands (Marine).

# Barr-A

## Explosion Proof Gland (424UB Series)

SUITABLE FOR UNARMORED MARINE SHIPBOARD CABLES

## Features and benefits:

- Fast, easy installation
- Large sealing range
- Space and weight saving
- Tested to UL and CSA standards
- For Class I, II & III
- Accepted by 'American Bureau of Shipping' and 'Lloyds Register'

## Technical Information:

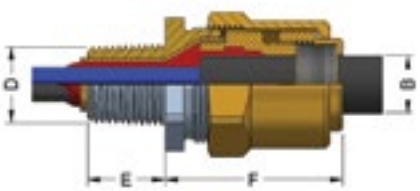
- Suitable for unarmored marine shipboard cables - category FDLW
- Standard Product = Brass construction with bright autocatalytic nickel coated hubs as shown below
- Optional bright autocatalytic nickel coating of exposed brass parts, add suffix 'V' to reference

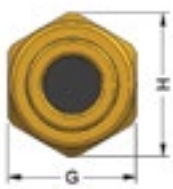
**Connector listed as follows:**
½" to 3 ½" CSA Class I Groups ABCD, Class II Groups EFG, Class III
½" and ¾" UL Class I Groups ABCD, Class II Groups EFG
1" to 3 ½" UL Class I Groups CD, Class II Groups EFG

- Compound forms barrier around individual cores, so preventing migration of gases through the center of the cable
- For use in most climatic conditions, rated to IP66 for wet locations
- Equivalent European designs available: Approved to European & IECEx standards
- Full installation instructions supplied

## Specifications

| Gland Reference | | Cable Dimensions Overall Ø (B) | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|
| Design Reference | | Hub Size NPT (D) | Min | Max | Hub Length (E) | Protrusion Length (F) | Hexagon | | lbs |
| Standard | Fully Plated | | | | | | A/F (G) | A/C (H) | |
| 424UB-01 | 424UB-01V | ½" | 0.14" | 0.36" | 0.85'' | 1.55" | 1.06" | 1.22" | 0.33 |
| 424UB-02 | 424UB-02V | ½" | 0.35" | 0.62" | 0.85'' | 1.85" | 1.42" | 1.57" | 0.66 |
| 424UB-03 | 424UB-03V | ¾" | 0.51" | 0.76" | 0.86'' | 1.96" | 1.67" | 1.89" | 0.88 |
| 424UB-04 | 424UB-04V | 1" | 0.67" | 1.06" | 1.07'' | 2.08" | 1.86" | 2.11" | 1.10 |
| 424UB-05 | 424UB-05V | 1 ¼" | 0.95" | 1.26" | 1.10'' | 2.16" | 2.22" | 2.42" | 1.76 |
| 424UB-15 | 424UB-15V | 1 ½" | 0.95" | 1.26" | 1.11'' | 2.16" | 2.22" | 2.42" | 2.09 |
| 424UB-06 | 424UB-06V | 2" | 1.14" | 1.65" | 1.15'' | 2.32" | 2.76" | 3.04" | 2.87 |
| 424UB-07 | 424UB-07V | 2 ½" | 1.61" | 2.08" | 1.70'' | 2.24" | 3.15" | 3.44" | 4.08 |
| 424UB-08 | 424UB-08V | 3" | 1.96" | 2.42" | 1.76'' | 2.83" | 3.89" | 4.30" | 6.64 |
| 424UB-09 | 424UB-09V | 3 ½" | 2.15" | 2.91" | 1.81'' | 2.91" | 4.18" | 4.50" | 8.36 |



BICON

# Barr-X

# Explosion Proof Gland (424AN Series)

SUITABLE FOR JACKETED MARINE SHIPBOARD CABLES - CATEGORY FDLW

## Features and benefits:

- Fast, easy installation
- Large sealing range
- Space and weight savings
- Tested to UL and CSA standards
- For Class I, II & III Division 1 & 2 applications
- Accepted by 'American Bureau of Shipping' and 'Lloyds Register'

## Technical Information:

- Suitable for jacketed marine shipboard cables – category FDLW
- Standard Product = Brass construction with bright autocatalytic nickel coated hubs as shown below

**Connector listed as follows:**

½" to 3 ½" CSA Class I Groups ABCD, Class II Groups EFG, Class III Type 4X when used with armored and sheathed rig cable

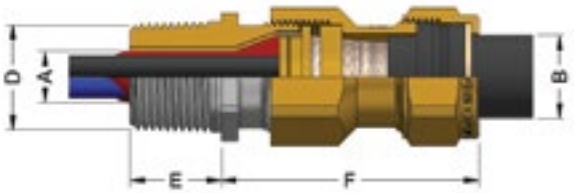
½" and ¾" UL Class I Groups ABCD, Class II Groups EFG

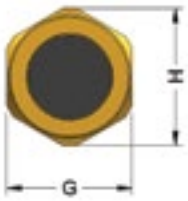
1" to 3 ½" UL Class I Groups CD, Class II Groups EFG

- Service temperature range -60°C to +90°C
- Compound forms barrier around individual cores, so preventing migration of gases through the center of the cable
- For use in most climatic conditions, rated to IP66 for wet locations
- Equivalent European designs available: Approved to European & IECEx standards
- Full installation instructions supplied

## Specifications

| Gland Reference | | Cable Dimensions Accommodated | | | | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Design Reference | Hub Size NPT (D) | Under Braid Ø (A) | | Braid Wire Ø | Over Jacket Ø (B) | | Hub Length (E) | Protrusion Length (F) | Hexagon | | lbs |
| | | Min | Max | | Min | Max | | | A/F (G) | A/C (H) | |
| 424AN-01 | ½" | - | 0.45" | 0.008/0.012" | 0.32" | 0.62" | 0.85'' | 2.40" | 1.20" | 1.34" | 0.50 |
| 424AN-02 | ¾" | - | 0.49" | 0.008/0.012" | 0.46" | 0.82" | 0.86'' | 2.28" | 1.20" | 1.34" | 0.55 |
| 424AN-03 | 1" | 0.45" | 0.70" | 0.008/0.018" | 0.67" | 1.07" | 1.07'' | 2.20" | 1.48" | 1.66" | 0.80 |
| 424AN-04 | 1 ¼" | 0.67" | 0.98" | 0.012/0.018" | 0.75" | 1.32" | 1.10'' | 2.72" | 1.86" | 2.11" | 1.25 |
| 424AN-05 | 1 ½" | 0.94" | 1.24" | 0.012/0.018" | 1.04" | 1.57" | 1.11'' | 2.76" | 2.22" | 2.42" | 2.50 |
| 424AN-06 | 2" | 1.18" | 1.63" | 0.012/0.018" | 1.41" | 2.07" | 1.15'' | 3.15" | 2.76" | 3.04" | 2.75 |
| 424AN-07 | 2 ½" | 1.57" | 2.12" | 0.012/0.018" | 1.83" | 2.57" | 1.70'' | 3.31" | 3.15" | 3.44" | 4.80 |
| 424AN-08 | 3" | 2.09" | 2.57" | 0.012/0.018" | 2.28" | 3.07" | 1.76'' | 3.58" | 3.89" | 4.30" | 6.25 |
| 424AN-09 | 3 ½" | 2.36" | 2.91" | 0.012/0.018" | 2.67" | 3.46" | 1.81'' | 3.98" | 4.53" | 4.96" | 8.60 |
| 424AN-10 | ½" | - | 0.45" | 0.008/0.018" | 0.46" | 0.82" | 0.85'' | 2.28" | 1.20" | 1.34" | 0.60 |
| 424AN-12 | ¾" | 0.45" | 0.70" | 0.008/0.018" | 0.67" | 1.07" | 0.86'' | 2.24" | 1.48" | 1.66" | 0.80 |
| 424AN-15 | 1" | 0.67" | 0.98" | 0.012/0.018" | 0.75" | 1.32" | 1.07'' | 2.72" | 1.86" | 2.11" | 1.25 |




MARINE C UL US LISTED 98L2 Marine shipboard cable sealing fitting for use in Hazardous locations

CSA

# Barr-DX

## Explosion Proof Gland (424UL Series)

SUITABLE FOR UNJACKETED MARINE SHIPBOARD CABLES WITH BRAID ARMOR

## Features and benefits:

- Fast, easy installation
- Large sealing range
- Space and weight savings
- Tested to UL and CSA standards
- For Class I & II Division 2 and class III divisions 1 & 2 applications

## Technical Information:

- Suitable for unjacketed marine shipboard cables – category FDLW
- Standard Product = Brass construction with bright autocatalytic nickel coated hubs as shown below
- Optional bright autocatalytic nickel coating of exposed brass parts, add suffix 'V' to reference

**Connector listed as follows:**

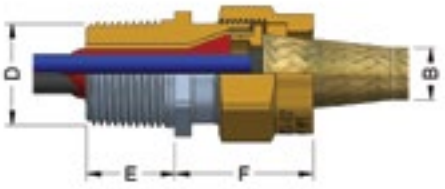
½" and ¾" Class I groups ABCD, Class II Groups EFG

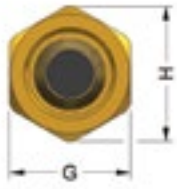
1" to 3 ½" Class I Groups CD, Class II Groups EFG

- Compound forms barrier around individual cores, preventing migration of gases through the center of the cable
- Full installation instructions supplied

## Specifications

| Gland Reference | | | Cable Dimensions Accommodated | | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| Design Reference | | Hub Size NPT (D) | Under Braid Ø (A) | | Braid Wire Ø | Hub Length (E) | Protrusion Length (F) | Hexagon | | lbs |
| Standard | Fully Plated | | Min | Max | | | | A/F (G) | A/C (H) | |
| 424UL-01 | 424UL-01V | ½" | - | 0.49" | 0.007/0.012" | 0.85'' | 1.26" | 1.20" | 1.34" | 0.45 |
| 424UL-02 | 424UL-02V | ¾" | - | 0.49" | 0.007/0.012" | 0.86'' | 1.26" | 1.20" | 1.34" | 0.5 |
| 424UL-03 | 424UL-03V | 1" | 0.46" | 0.70" | 0.007/0.018" | 1.07'' | 1.30" | 1.48" | 1.66" | 0.7 |
| 424UL-04 | 424UL-04V | 1 ¼" | 0.67" | 0.98" | 0.012/0.018" | 1.10'' | 1.36" | 1.86" | 2.11" | 1.1 |
| 424UL-05 | 424UL-05V | 1 ½" | 0.94" | 1.24" | 0.012/0.018" | 1.11'' | 1.42" | 2.22" | 2.42" | 2.2 |
| 424UL-06 | 424UL-06V | 2" | 1.18" | 1.63" | 0.012/0.018" | 1.15'' | 1.61" | 2.76" | 3.04" | 2.5 |
| 424UL-07 | 424UL-07V | 2 ½" | 1.57" | 2.12" | 0.012/0.018" | 1.70'' | 1.61" | 3.15" | 3.44" | 4.4 |
| 424UL-08 | 424UL-08V | 3" | 2.09" | 2.57" | 0.012/0.018" | 1.76'' | 1.85" | 3.89" | 4.30" | 5.7 |
| 424UL-09 | 424UL-09V | 3 ½" | 2.36" | 2.91" | 0.012/0.018" | 1.81'' | 2.00" | 4.53" | 4.96" | 7.75 |
| 424UL-12 | 424UL-12V | ¾" | 0.46" | 0.70" | 0.007/0.018" | 0.86'' | 1.30" | 1.48" | 1.66" | 0.7 |
| 424UL-15 | 424UL-15V | 1" | 0.67" | 0.98" | 0.012/0.018" | 1.07'' | 1.36" | 1.86" | 2.11" | 1.1 |




MARINE C UL US LISTED 98L2

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# **North American Explosion Proof Glands** (Industrial).

# Barr-A

## Explosion Proof Gland (424BT Series)

SUITABLE FOR UNARMORED TRAY CABLES CATEGORY TC-ER & TC-ER-HL

## Features and benefits:

- Fast, easy installation
- Large sealing range
- Space and weight savings
- Tested to UL and CSA standards

## Technical Information:

- Suitable for unarmored tray cables – category TC-ER & TC-ER-HL
- Brass construction with bright autocatalytic nickel coated hub
- Optional bright autocatalytic nickel coating of all brass parts. Add suffix "V" to reference

**Connector listed as follows:**

½" to 3 ½" CSA Class I groups ABCD, Class II Groups EFG, Class III

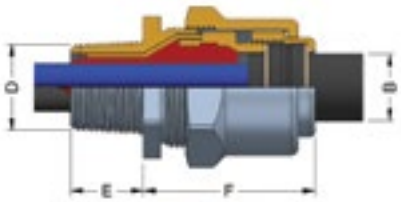
½" to 1 ½" UL Class I groups ABCD (Div 1) with TC-ER-HL cable (up to 1 inch); Class II Groups FG (Div 2), Class III

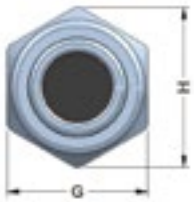
1" to 3 ½" UL Class I groups CD (Div 2); Class II Groups FG (Div 2), Class III

- Compound forms barrier around individual cores, so preventing migration of gases through the center of the cable
- For use in most climatic conditions, rated to IP66 for wet locations
- For use with explosion proof equipment in Zone 1 and 2 hazardous areas and for Class I, Div 1 and 2 applications
- Equivalent European designs available: Approved to European & IECEx standards
- Full installation instructions supplied

## Specifications

| Gland Reference | | | Cable Dimensions Overall Ø (B) | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|
| Design Reference | | Hub Size NPT (D) | Min | Max | Hub Length (E) | Protrusion Length (F) | Hexagon | | lbs |
| Standard | Nickel Plated | | | | | | A/F (G) | A/C (H) | |
| 424BT-02 | 424BT-02 V | ½" | 0.35" | 0.62" | 0.85'' | 1.85" | 1.42" | 1.57" | 0.66 |
| 424BT-03 | 424BT-03 V | ¾" | 0.51" | 0.76" | 0.86'' | 1.96" | 1.67" | 1.89" | 0.88 |
| 424BT-04 | 424BT-04 V | 1" | 0.67" | 1.06" | 1.07'' | 2.08" | 1.86" | 2.11" | 1.10 |
| 424BT-05 | 424BT-05 V | 1 ¼" | 0.95" | 1.26" | 1.10'' | 2.16" | 2.22" | 2.42" | 1.76 |
| 424BT-15 | 424BT-15 V | 1 ½" | 0.95" | 1.26" | 1.11'' | 2.16" | 2.22" | 2.42" | 2.09 |
| 424BT-06 | 424BT-06 V | 2" | 1.14" | 1.65" | 1.15'' | 2.32" | 2.76" | 3.04" | 2.87 |
| 424BT-07 | 424BT-07 V | 2 ½" | 1.61" | 2.08" | 1.70'' | 2.24" | 3.15" | 3.44" | 4.08 |
| 424BT-08 | 424BT-08 V | 3" | 1.96" | 2.42" | 1.76'' | 2.83" | 3.89" | 4.30" | 6.64 |
| 424BT-09 | 424BT-09 V | 3 ½" | 2.15" | 2.91" | 1.81'' | 2.91" | 4.18" | 4.50" | 8.36 |




Plated version shown

LISTED
33R8

# Barr-A (Aluminum)

## Explosion Proof Gland (424UN Series)

SUITABLE FOR UNARMOREDTRAY CABLES CATEGORY TC-ER & TC-ER-HL

## Features and benefits:

- Fast, easy installation
- Large sealing range
- Space and weight saving
- Tested to UL and CSA standards

## Technical Information:

- Suitable for unarmored tray cables – TC-ER & TC-ER-HL
- Aluminum construction with nickel plated brass inner components

**Connector listed as follows:**
½" to 3 ½" CSA Class I groups ABCD, Class II Groups EFG, Class III

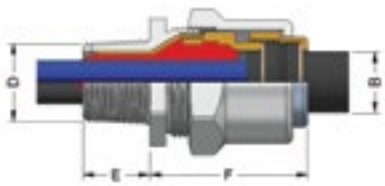
½" to 1 ½" UL Class I groups ABCD (Div 1) with TC-ER-HL cable (up to 1 inch); Class II Groups FG (Div 2), Class III

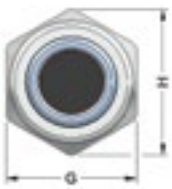
1" to 3 ½" UL Class I groups CD (Div 2); Class II Groups FG (Div 2), Class III

- Compound forms barrier around individual cores, so preventing migration of gases through the center of the cable
- For use in most climatic conditions, rated to IP66 for wet locations
- For use with explosion proof equipment in Zone 1 and 2 hazardous areas and for Class I, Div 1 and 2 applications
- Equivalent European designs available: Approved to European & IECEx standards
- Full installation instructions supplied

## Specifications

| Gland Reference | | Cable Dimensions Overall Ø (B) | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|
| Design Reference | Hub Size NPT (D) | Min | Max | Hub Length (E) | Protrusion Length (F) | Hexagon A/F (G) | Hexagon A/C (H) | lbs |
| 424UN-02 | ½" | 0.35" | 0.62" | 0.85" | 1.85" | 1.42" | 1.57" | 0.5 |
| 424UN-03 | ¾" | 0.51" | 0.76" | 0.86" | 1.96" | 1.67" | 1.89" | 0.5 |
| 424UN-04 | 1" | 0.67" | 1.06" | 1.07" | 2.08" | 1.86" | 2.11" | 0.75 |
| 424UN-05 | 1 ¼" | 0.95" | 1.26" | 1.10" | 2.16" | 2.22" | 2.42" | 1.25 |
| 424UN-15 | 1 ½" | 0.95" | 1.26" | 1.11" | 2.16" | 2.22" | 2.42" | 1.25 |
| 424UN-06 | 2" | 1.14" | 1.65" | 1.15" | 2.32" | 2.76" | 3.04" | 1.75 |
| 424UN-07 | 2 ½" | 1.61" | 2.08" | 1.70" | 2.24" | 3.15" | 3.44" | 2.25 |
| 424UN-08 | 3" | 1.96" | 2.42" | 1.76" | 2.83" | 3.89" | 4.30" | 4.25 |
| 424UN-09 | 3 ½" | 2.15" | 2.91" | 1.81" | 2.91" | 4.18" | 4.50" | 5.5 |




LISTED 33R8

# NicAI-X

## Explosion Proof Gland (424MA series)

SUITABLE FOR MC ARMORED CABLES (CLASS I, DIV 1 & 2 LOCATIONS)

## Features and benefits:

- Fast, easy installation
- Large sealing range
- Space and weight savings
- Tested to UL & CSA standards
- For Class I, II & III Division 1 & 2 applications with type MC-HL continuous corrugated aluminum armor cables
- For Class I, II & III Division 2 applications with type MC interlocking armor cables
- Accepted by 'American Bureau of Shipping' and 'Lloyds Register'

## Technical Information:

- Suitable for MC armored cables - category CYMX
- 6082-T6 aluminum exposed parts with bright autocatalytic nickel coating

**Connector listed as follows:**

½" to 4" Class I Groups ABCD, Class II Groups EFG, Class III with type MC-HL cables

½" to 4" Class I Division 2 groups ABCD, Class II Division 2 groups FG, Class III with type MC cables

- Compound forms barrier around individual cores, so preventing migration of gases through the center of the cable
- For use in most climatic conditions, rated to IP66 for wet locations
- Full installation instructions supplied

## Specifications

| Gland Reference | | Cable Dimensions Accommodated | | | | Gland Dimensions | | | Weight |
|---|---|---|---|---|---|---|---|---|---|
| Design Reference | Hub Size NPT (D) | Over Armor (A) | | Overall Ø (B) | | Hub Length (E) | Protrusion Length (F) | Diameter (G) | lbs |
| | | Min | Max | Min | Max | | | | |
| 424MA-02V | ½" | 0.37" | 0.65" | 0.46" | 0.75" | 0.85'' | 2.99" | 1.46" | 0.27 |
| 424MA-03V | ¾" | 0.47" | 0.87" | 0.54" | 1.00" | 0.86'' | 3.46" | 1.97" | 0.39 |
| 424MA-04V | 1" | 0.86" | 1.11" | 0.89" | 1.23" | 1.07'' | 3.30" | 2.26" | 0.50 |
| 424MA-05V | 1 ¼" | 1.08" | 1.36" | 1.23" | 1.44" | 1.10'' | 3.22" | 2.62" | 0.67 |
| 424MA-06V | 1 ½" | 1.34" | 1.78" | 1.43" | 1.84" | 1.11'' | 4.01" | 3.19" | 1.20 |
| 424MA-07V | 2" | 1.73" | 2.09" | 1.84" | 2.21" | 1.15'' | 4.05" | 3.82" | 1.40 |
| 424MA-08V | 2 ½" | 2.07" | 2.60" | 2.14" | 2.76" | 1.70'' | 4.72" | 4.53" | 2.25 |
| 424MA-09V | 3" | 2.57" | 2.87" | 2.69" | 3.04" | 1.76'' | 4.37" | 4.90" | 2.05 |
| 424MA-10V | 3 ½" | 2.85" | 3.46" | 2.97" | 3.62" | 1.81'' | 5.31" | 5.59" | 2.92 |
| 424MA-11V | 4" | 3.36" | 4.01" | 3.55" | 4.24" | 1.86'' | 5.27" | 6.51" | 3.75 |

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# Barr-C (Aluminum)
## Explosion Proof Gland (424CU series)

SUITABLE FOR MC ARMORED CABLES (CLASS I, DIV 2 LOCATIONS)

## Features and benefits:

- Fast, easy installation
- Large sealing range
- Space and weight savings
- Tested to UL and CSA standards
- For Class I & II Division 2 and Class III Divisions 1 & 2 applications

## Technical Information:

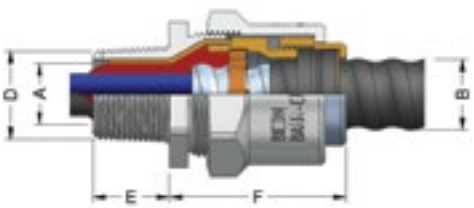
- Suitable for type MC interlocking armored cables – category CYMX
- 6082-T6 aluminum outer components with bright autocatalytic nickel coated brass inner parts

**Connector listed as follows:**
½" to 3 ½" CSA Class I groups ABCD, Class II Groups EFG, Class III
½"and ¾" UL Class I groups ABCD (Div 2); Class II Groups FG (Div 2), Class III
1" to 3 ½" UL Class I groups CD (Div 2); Class II Groups FG (Div 2), Class III

- Compound forms barrier around individual cores, so preventing migration of gases through the center of the cable
- For use in most climatic conditions, rated to IP66 for wet locations
- For use with explosion proof equipment in Zone 1 and 2 hazardous areas and for Class I, Div 1 and 2 applications
- Equivalent European designs available: Approved to European & IECEx standards
- Full installation instructions supplied

## Specifications

| Gland Reference | | Cable Dimensions Accommodated | | | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| Design Reference | Hub Size NPT (D) | Over Armor (A) | | Overall Ø (B) | | Hub Length (E) | Protrusion Length (F) | Hexagon or Diameter | | lbs |
| | | Min | Max | Min | Max | | | A/F (G) | A/C (H) | |
| 424CU-02 | ½" | 0.30" | 0.57" | 0.35" | 0.63" | 0.85'' | 1.85" | 1.42" | 1.57" | 0.50 |
| 424CU-03 | ¾ " | 0.47" | 0.68" | 0.51" | 0.76" | 0.86'' | 2.08" | 1.67" | 1.89" | 0.50 |
| 424CU-04 | 1" | 0.63" | 0.94" | 0.67" | 1.05" | 1.07'' | 2.08" | 1.86" | 2.11" | 0.75 |
| 424CU-05 | 1 ¼" | 0.83" | 1.14" | 0.97" | 1.30" | 1.10'' | 2.16" | 2.22" | 2.42" | 1.25 |
| 424CU-15 | 1 ½" | 0.83" | 1.14" | 0.97" | 1.30" | 1.11'' | 2.16" | 2.22" | 2.42" | 1.30 |
| 424CU-06 | 2" | 1.02" | 1.54" | 1.14" | 1.65" | 1.15'' | 2.32" | 2.76" | 3.04" | 1.75 |
| 424CU-07 | 2 ½" | 1.48" | 2.00" | 1.61" | 2.10" | 1.70'' | 2.24" | 3.15" | 3.44" | 2.25 |
| 424CU-08 | 3" | 1.81" | 2.26" | 1.96" | 2.44" | 1.76'' | 2.83" | 3.89" | 4.30" | 4.25 |
| 424CU-09 | 3 ½" | 2.16" | 2.81" | 2.32" | 2.94" | 1.81'' | 2.91" | 4.18" | 4.50" | 5.50 |





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# Barr-CZ

## Explosion Proof Gland (424NB series)

SUITABLE FOR MC ARMORED CABLES (CLASS I, DIV 2 LOCATIONS)

## Features and benefits:

- Fast, easy installation
- Large sealing range
- Space and weight savings
- Tested and approved to UL and CSA standards
- For Class I Div 2 applications

## Technical Information:

- Suitable for MC armored cables – category CYMX
- Brass construction - bright autocatalytic nickel plated

**Connector listed as follows:**

½" to 3 ½" CSA Class I Groups ABCD, Class II Groups EFG, Class III

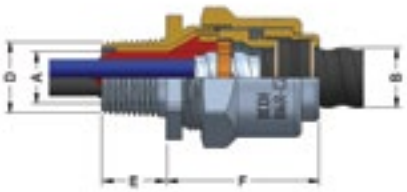
½" and ¾" UL Class I (Div 2); groups ABCD, Class II (Div 2), Groups FG, Class III

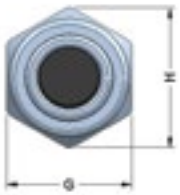
1" and 3 ½" UL Class I (Div 2); groups CD, Class II (Div 2), Groups FG, Class III

- Compound forms barrier around individual cores, so preventing migration of gases through the center of the cable
- For use in most climatic conditions, rated to IP66 for wet locations
- For use with explosion proof equipment in Zone 1 and 2 hazardous areas and for Class I, Div 2 applications
- Full installation instructions supplied

## Specifications

| Gland Reference | | Cable Dimensions Accommodated | | | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| Design Reference | Hub Size NPT (D) | Over Armor (A) | | Overall Ø (B) | | Hub Length (E) | Protrusion Length (F) | Hexagon or Diameter | | lbs |
| | | Min | Max | Min | Max | | | A/F (G) | A/C (H) | |
| 424NB-02 | ½" | 0.30" | 0.57" | 0.35" | 0.63" | 0.85'' | 1.85" | 1.42" | 1.57" | 0.50 |
| 424NB-03 | ¾ " | 0.47" | 0.68" | 0.51" | 0.76" | 0.86'' | 2.08" | 1.67" | 1.89" | 0.50 |
| 424NB-04 | 1" | 0.63" | 0.94" | 0.67" | 1.05" | 1.07'' | 2.08" | 1.86" | 2.11" | 0.75 |
| 424NB-05 | 1 ¼" | 0.83" | 1.14" | 0.97" | 1.30" | 1.10'' | 2.16" | 2.22" | 2.42" | 1.25 |
| 424NB-15 | 1 ½" | 0.83" | 1.14" | 0.97" | 1.30" | 1.11'' | 2.16" | 2.22" | 2.42" | 1.45 |
| 424NB-06 | 2" | 1.02" | 1.54" | 1.14" | 1.65" | 1.15'' | 2.32" | 2.76" | 3.04" | 1.75 |
| 424NB-07 | 2 ½" | 1.48" | 2.00" | 1.61" | 2.10" | 1.70'' | 2.24" | 3.15" | 3.44" | 2.25 |
| 424NB-08 | 3" | 1.81" | 2.26" | 1.96" | 2.44" | 1.76'' | 2.83" | 3.89" | 4.30" | 4.25 |
| 424NB-09 | 3 ½" | 2.16" | 2.81" | 2.32" | 2.94" | 1.81'' | 2.91" | 4.18" | 4.50" | 5.50 |

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BICON

# North American IEC Hazardous Glands (UL/CSA Listed).

# A2EX
# Flameproof Gland (494NE series)

SUITABLE FOR UNARMORED AND BRAIDED SHEATHED CABLES. PLASTIC & RUBBER JACKETED, EXTRUDED BEDDED CABLES, INCLUSIVE OF IEEE 45 TYPE P SHIPBOARD CABLES.

## Key Features

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular unarmored cables with extruded oversheath
- Fitted with silicone rubber low smoke, zero halogen seal
- Achieves IP66, IP68 (1 bar) and deluge proof (DTS01:1991) seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Nickel plated and standard versions available
- Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC
- Certificate number Sira99ATEX1086X. IECEx 10.0069X
- Service temperature range –50°C to +200°C
- UL Classified in accordance with IEC 60079-0, 60079-1 and 60079-7 for use in hazardous locations
- UL Listed for use in Class I, Zone 0, 1 and 2 hazardous locations for Canada
- Full installation instructions supplied

**May be used in**

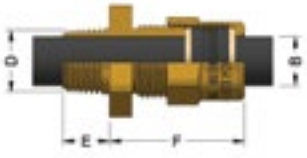
- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

**Where the cable is effectively filled, may also be used in**

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 $cm^3$
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 $cm^3$
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

## Specifications

| Gland Reference | | | Cable Dimensions Accommodated Outer Seal Overall Ø (B) | | | Gland Dimensions | | | Weight |
|---|---|---|---|---|---|---|---|---|---|
| Design Reference | | Hub Size NPT (D) | Basic Metric | Min | Max | Hub Length (E) | Protrusion Length (F) | Hexagon | | lbs |
| Fully Plated | Un Plated | | | | | | | A/F (G) | A/C (H) | |
| 494NE-03V | 494NE-03 | ½" | 16 | 0.138'' | 0.335'' | 0.60'' | 1.42'' | 0.85'' | 0.97'' | 0.209 |
| 494NE-04V | 494NE-04 | ½" | 20s | 0.315'' | 0.453'' | 0.60'' | 1.34'' | 0.85'' | 0.97'' | 0.176 |
| 494NE-05V | 494NE-05 | ½" | 20 | 0.315'' | 0.530'' | 0.64'' | 1.73'' | 1.00'' | 1.13'' | 0.198 |
| 494NE-08V | 494NE-08 | ¾" | 20 | 0.315'' | 0.630'' | 0.64'' | 1.73'' | 1.00'' | 1.13'' | 0.198 |
| 494NE-10V | 494NE-10 | ¾" | 25 | 0.453'' | 0.827'' | 0.76'' | 1.81'' | 1.29'' | 1.45'' | 0.320 |
| 494NE-14V | 494NE-14 | 1" | 25 | 0.453'' | 0.827'' | 0.76'' | 1.81'' | 1.29'' | 1.45'' | 0.320 |
| 494NE-15V | 494NE-15 | 1" | 32 | 0.728'' | 1.083'' | 0.80'' | 1.50'' | 1.47'' | 1.65'' | 0.310 |
| 494NE-20V | 494NE-20 | 1 ¼" | 32 | 0.728'' | 1.083'' | 0.80'' | 1.50'' | 1.47'' | 1.65'' | 0.309 |
| 494NE-21V | 494NE-21 | 1 ¼" | 40 | 0.945'' | 1.339'' | 0.82'' | 1.81'' | 1.85'' | 2.11'' | 0.595 |
| 494NE-27V | 494NE-27 | 1 ½" | 40 | 0.945'' | 1.339'' | 0.82'' | 1.81'' | 2.21'' | 2.47'' | 0.595 |
| 494NE-31V | 494NE-31 | 1 ½" | 50 | 1.220'' | 1.614'' | 0.86'' | 1.73'' | 2.21'' | 2.40'' | 0.849 |
| 494NE-32V | 494NE-32 | 2" | 50 | 1.220'' | 1.614'' | 0.86'' | 1.73'' | 2.21'' | 2.40'' | 0.849 |
| 494NE-38V | 494NE-38 | 2 ½" | 63 | 1.575'' | 2.067'' | 1.27'' | 2.40'' | 2.75'' | 3.02'' | 1.62 |
| 494NE-44V | 494NE-44 | 3" | 75S | 2.067'' | 2.283'' | 1.31'' | 1.81'' | 3.13'' | 3.42'' | 1.962 |
| 494NE-45V | 494NE-45 | 3" | 75 | 2.146'' | 2.579'' | 1.31'' | 2.60'' | 3.13'' | 3.42'' | 1.709 |




# A2EXP Flameproof Dual-Seal Gland (495NE series)

SUITABLE FOR UNARMORED AND BRAIDED SHEATHED CABLES. PLASTIC & RUBBER JACKETED, EXTRUDED BEDDED CABLES, INCLUSIVE OF IEEE 45 TYPE P SHIPBOARD CABLES.

## Key Features

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular unarmored cables with extruded oversheath
- Fitted with silicone rubber low smoke, zero halogen seal
- Achieves IP66, IP68 (1 bar) and deluge proof (DTS01:1991) seal onto cable and to enclosure with suitable sealing washer or thread sealant.
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Nickel plated and standard versions available
- Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC.
- Certificate number Sira99ATEX1086X, IECEx 10.0069X
- Service temperature range –50°C to +200°C
- UL Classified in accordance with IEC 60079-0, 60079-1 and 60079-7 for use in hazardous locations
- UL Listed for use in Class I, Zone 0, 1 and 2 hazardous locations for Canada
- Full installation instructions supplied

**May be used in**

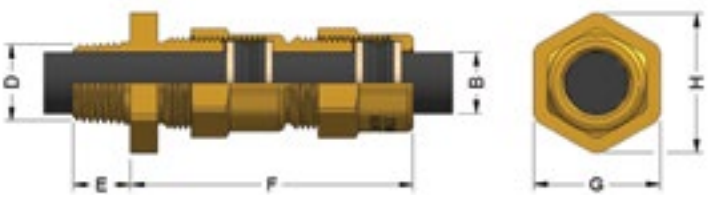
- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

**Where the cable is effectively filled, may also be used in**

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

## Specifications

| Gland Reference | | Cable Dimensions Accommodated Outer Seal Overall Ø (B) | | | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| Design Reference | | Hub Size NPT (D) | Basic Metric | Min | Max | Hub Length (E) | Protrusion Length (F) | Hexagon | | lbs |
| Fully Plated | Un Plated | | | | | | | A/F (G) | A/C (H) | |
| 495NE-03V | 495NE-03 | ½" | 20SS | 0.138" | 0.335" | 0.60" | 2.56" | 0.85" | 0.97" | 0.265 |
| 495NE-04V | 495NE-04 | ½" | 20S | 0.315" | 0.453" | 0.60" | 2.44" | 0.85" | 0.97" | 0.265 |
| 495NE-05V | 495NE-05 | ½" | 20 | 0.315" | 0.630" | 0.64" | 3.19" | 1.00" | 1.13" | 0.320 |
| 495NE-08V | 495NE-08 | ¾" | 20 | 0.315" | 0.630" | 0.64" | 3.19" | 1.00" | 1.13" | 0.320 |
| 495NE-10V | 495NE-10 | ¾" | 25 | 0.453" | 0.827" | 0.76" | 3.37" | 1.29" | 1.45" | 0.540 |
| 495NE-14V | 495NE-14 | 1" | 25 | 0.453" | 0.827" | 0.76" | 3.37" | 1.29" | 1.45" | 0.540 |
| 495NE-15V | 495NE-15 | 1" | 32 | 0.728" | 1.063" | 0.80" | 2.72" | 1.47" | 1.65" | 0.520 |
| 495NE-20V | 495NE-20 | 1 ¼" | 32 | 0.728" | 1.063" | 0.80" | 2.72" | 1.47" | 1.65" | 0.496 |
| 495NE-21V | 495NE-21 | 1 ¼" | 40 | 0.945" | 1.339" | 0.82" | 3.23" | 1.85" | 2.11" | 0.550 |
| 495NE-27V | 495NE-27 | 1 ½" | 40 | 0.945" | 1.339" | 0.82" | 3.23" | 2.21" | 2.47" | 0.959 |
| 495NE-32V | 495NE-32 | 2" | 50 | 1.220" | 1.814" | 0.86" | 3.11" | 2.21" | 2.40" | 1.334 |
| 495NE-38V | 495NE-38 | 2 ½" | 63 | 1.575" | 2.067" | 1.27" | 4.47" | 2.75" | 3.02" | 2.657 |
| 495NE-44V | 495NE-44 | 3" | 75S | 2.067" | 2.283" | 1.31" | 3.09" | 3.13" | 3.42" | 2.965 |
| 495NE-45V | 495NE-45 | 3" | 75 | 2.146" | 2.579" | 1.31" | 4.72" | 3.13" | 3.42" | 2.778 |



# Excel Plus
# Flameproof Gland (493NE series)

SUITABLE FOR ALL ARMOR TYPES AND BRAIDED SHEATHED CABLES. PLASTIC & RUBBER JACKETED, EXTRUDED BEDDED CABLES, INCLUSIVE OF IEEE 45 TYPE P SHIPBOARD CABLES.

## Key Features

- Excel Plus Ex d IIC & Ex e II deluge proof gland
- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular cables with braid, tape or wire armor and extruded polymeric bedding and oversheath
- Achieves IP67 and deluge proof (DTS01:1991) seal onto cable and to enclosure with sealing washer supplied or thread sealant
- Three part armor lock provides mechanical cable retention and electrical continuity
- Diaphragm inner seal compatible with soft bedding materials that may be subject to 'cold-flow'
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Nickel plated versions also available
- Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC
- Certificate number Sira01ATEX1032X
- Service temperature range –20°C to +90°C
- CSA [C/US] certified Ex d IIC & Ex e II, CSA Enclosure Type 4X, AEx d IIC & AEx e II, NEMA 4X
- Full installation instructions supplied

**May be used in**

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

**Where the cable is effectively filled, may also be used in**

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 $cm^3$
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 $cm^3$
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

## Specifications

| Gland Reference | | | | Cable Dimensions | | | | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Design Reference | | Hub Size NPT (D) | Basic Metric | Under Armor Ø (A) | | Overall Ø (B) | | Max. Armor wire (C) | Hub Length (E) | Protrusion Length (F) | Hexagon | | lbs |
| Un Plated | Fully Plated | | | Min | Max | Min | Max | | | | A/F (G) | A/C (H) | |
| 493NE-03 | 493NE-03V | ½″ | 16 | 0.157″ | 0.354″ | 0.315″ | 0.630″ | 0.049″ | 0.54″ | 2.87″ | 1.01″ | 1.13″ | 0.40 |
| 493NE-04 | 493NE-04V | ½″ | 20S | 0.276″ | 0.472″ | 0.354″ | 0.630″ | 0.049″ | 0.54″ | 2.68″ | 1.10″ | 1.25″ | 0.42 |
| 493NE-08 | 493NE-08V | ¾″ | 20 | 0.315″ | 0.567″ | 0.453″ | 0.827″ | 0.049″ | 0.55″ | 2.99″ | 1.30″ | 1.45″ | 0.55 |
| 493NE-14 | 493NE-14V | 1″ | 25 | 0.413″ | 0.795″ | 0.728″ | 1.083″ | 0.063″ | 0.69″ | 2.99″ | 1.48″ | 1.66″ | 0.69 |
| 493NE-20 | 493NE-20V | 1 ¼″ | 32 | 0.610″ | 1.043″ | 0.827″ | 1.339″ | 0.079″ | 0.71″ | 2.39″ | 1.86″ | 2.08″ | 1.17 |
| 493NE-27 | 493NE-27V | 1 ½″ | 40 | 0.906″ | 1.280″ | 1.220″ | 1.634″ | 0.079″ | 0.73″ | 3.54″ | 2.22″ | 2.49″ | 1.76 |
| 493NE-32 | 493NE-32V | 2″ | 50 | 1.122″ | 1.752″ | 1.417″ | 2.067″ | 0.098″ | 0.77″ | 4.37″ | 2.76″ | 3.04″ | 2.67 |
| 493NE-38 | 493NE-38V | 2 ½″ | 63 | 1.732″ | 2.224″ | 1.969″ | 2.579″ | 0.098″ | 1.14″ | 4.41″ | 3.15″ | 3.44″ | 3.35 |
| 493NE-45 | 493NE-45V | 3″ | 75 | 2.087″ | 2.697″ | 2.323″ | 3.071″ | 0.098″ | 1.20″ | 5.12″ | 3.89″ | 4.30″ | 5.25 |

Prysmian Group

BICON

# North American Non-Hazardous Glands

# E2MC "Raintight"
# Non-Explosion Proof Gland (416MC series)

SUITABLE FOR MC ARMORED CABLES

## Features and benefits:

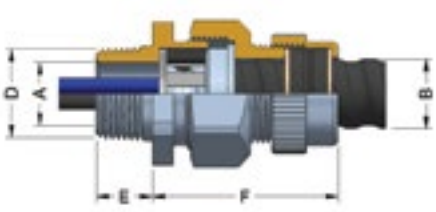
- Fast, easy installation
- Large sealing range
- Tested and approved to UL standards
- UL listed category PJOX

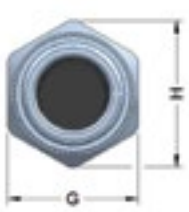
## Technical Information:

- Brass construction with bright autocatalytic nickel coating of exposed components
- For use in most climatic conditions, rated to IP66 for wet locations
- Full installation instructions supplied

## Specifications

| Gland Reference | | Cable Dimensions Accommodated | | | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| Design Reference | Hub Size NPT (D) | Over Armor (A) | | Overall Ø (B) | | Hub Length (E) | Protrusion Length (F) | Hexagon or Diameter | | lbs |
| | | Min | Max | Min | Max | | | A/F (G) | A/C (H) | |
| 416MC-02 | ½" | 0.460" | 0.500" | 0.56" | 0.62" | 0.54" | 2.1" | 1.20" | 1.34" | 0.40 |
| 416MC-03 | ¾" | 0.485" | 0.680" | 0.51" | 0.76" | 0.63" | 2.2" | 1.30" | 1.45" | 0.60 |
| 416MC-04 | 1" | 0.650" | 0.890" | 0.67" | 1.05" | 0.75" | 2.4" | 1.67" | 1.89" | 0.75 |
| 416MC-05 | 1 ¼" | 0.865" | 1.140" | 0.95" | 1.30" | 0.79" | 2.7" | 1.97" | 2.17" | 1.20 |
| 416MC-06 | 1 ½" | 1.100" | 1.350" | 1.14" | 1.44" | 0.81" | 2.6" | 2.22" | 2.42" | 1.50 |
| 416MC-07 | 2" | 1.320" | 1.540" | 1.36" | 1.65" | 0.85" | 2.6" | 2.47" | 2.76" | 1.60 |
| 416MC-08 | 2 ½" | 1.510" | 2.080" | 1.55" | 2.20" | 1.26" | 3.7" | 3.55" | 3.94" | 4.95 |
| 416MC-09 | 3" | 2.070" | 2.700" | 2.11" | 2.85" | 1.32" | 3.9" | 3.89" | 4.30" | 5.25 |
| 419MC-10 | 3 ½" | 2.900" | 3.350" | 2.76" | 3.52" | 1.38" | 4.3" | 4.84" | 5.57" | 7.95 |




UL LISTED 6755

# E2MC "Raintight" RA
# Non-Explosion Proof Gland (416RA series)

SUITABLE FOR MC ARMORED CABLES

## Features and benefits:

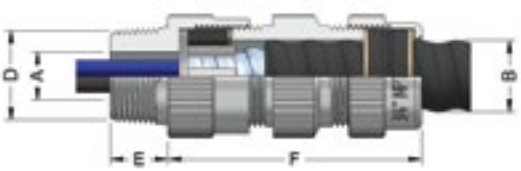
- Fast, easy installation
- Large sealing range
- Tested and approved to UL standards
- UL listed category PJOX

## Technical Information:

- 6082T6 aluminum construction
- For use in most climatic conditions, rated to IP66 for wet locations
- Full installation instructions supplied

## Specifications

| Gland Reference | | Cable Dimensions Accommodated | | | | Gland Dimensions | | | Weight |
|---|---|---|---|---|---|---|---|---|---|
| Design Reference | Hub Size NPT (D) | Over Armor (A) | | Overall Ø (B) | | Hub Length (E) | Protrusion Length (F) | Diameter | lbs |
| | | Min | Max | Min | Max | | | | |
| 416RA-02 | ½" | 0.460" | 0.500" | 0.56" | 0.62" | 0.54" | 2.4" | 1.18" | 0.15 |
| 416RA-03 | ¾" | 0.485" | 0.680" | 0.51" | 0.76" | 0.63" | 2.8" | 1.34" | 0.19 |
| 416RA-04 | 1" | 0.650" | 0.890" | 0.67" | 1.05" | 0.75" | 2.8" | 1.69" | 0.31 |
| 416RA-05 | 1 ¼" | 0.865" | 1.140" | 0.95" | 1.30" | 0.79" | 3.1" | 1.97" | 0.43 |
| 416RA-06 | 1 ½" | 1.100" | 1.350" | 1.14" | 1.44" | 0.81" | 3.2" | 2.26" | 0.58 |
| 416RA-07 | 2" | 1.320" | 1.540" | 1.36" | 1.65" | 0.85" | 3.5" | 2.76" | 0.86 |
| 416RA-08 | 2 ½" | 1.510" | 2.080" | 1.55" | 2.20" | 1.26" | 4.3" | 3.33" | 1.78 |
| 416RA-09 | 3" | 2.070" | 2.700" | 2.11" | 2.85" | 1.32" | 4.3" | 3.98" | 2.30 |
| 416RA-10 | 3 ½" | 2.900" | 3.350" | 2.76" | 3.52" | 1.38" | 4.4" | 4.65" | 2.81 |




UL LISTED 67S5

# Un-Armored Industrial Gland

## Non-Explosion Proof Gland (409NP & 494AG series)

SUITABLE FOR UNARMORED CABLES

### Features and benefits:

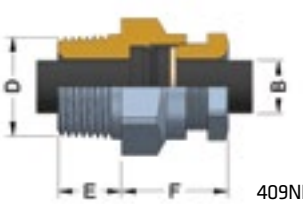
- For circular, unarmored plastic or rubber sheathed cables
- Large sealing range
- Approved to EN 50262, IEC 62444

### Technical Information:

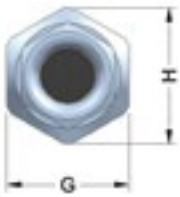
- Nickel plated brass and aluminum designs
- Suitable for most climatic conditions, weatherproof and waterproof
- 409NP**V – Brass construction with bright autocatalytic nickel coating
- 494AG**V – 6082T6 aluminum construction
- For use in most climatic conditions, rated to IP66 for wet locations

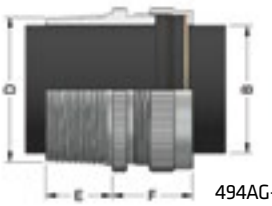
## Specifications

| Gland Reference | | Cable Dimensions Accommodated | | Gland Dimensions | | | | Weight |
|---|---|---|---|---|---|---|---|---|
| Design Reference | Hub Size NPT (D) | Overall Jacket Dia. (B) | | Hub Length (E) | Protrusion Length (F) | Hexagon | | lbs |
| | | Min | Max | | | A/F (G) | A/C (H) | |
| 409NP-04V | ½" | 0.315'' | 0.453'' | 0.535'' | 0.87'' | 0.87'' | 0.98'' | 0.19 |
| 409NP-08V | ¾" | 0.433'' | 0.531'' | 0.547'' | 0.87'' | 0.94'' | 1.06'' | 0.19 |
| 409NP-14V | 1" | 0.512'' | 0.768'' | 0.689'' | 0.98'' | 1.20'' | 1.34'' | 0.44 |
| 409NP-20V | 1¼" | 0.748'' | 1.004'' | 0.709'' | 0.98'' | 1.67'' | 1.89'' | 0.76 |
| 409NP-27V | 1½" | 0.984'' | 1.260'' | 0.728'' | 1.30'' | 1.86'' | 2.11'' | 0.63 |
| 409NP-31V | 2" | 1.240'' | 1.457'' | 0.768'' | 1.18'' | 2.17'' | 2.36'' | 0.65 |
| 409NP-32V | 2" | 1.437'' | 1.693'' | 0.768'' | 1.18'' | 2.22'' | 2.42'' | 0.78 |
| 409NP-37V | 2½" | 1.673'' | 1.969'' | 0.591'' | 1.34'' | 2.76'' | 3.04'' | 1.62 |
| 409NP-38V | 2½" | 1.949'' | 2.165'' | 1.142'' | 1.26'' | 2.95'' | 3.27'' | 1.68 |
| 409NP-44V | 3" | 2.146'' | 2.402'' | 1.201'' | 1.26'' | 3.15'' | 3.44'' | 3.57 |
| 409NP-45V | 3" | 2.382'' | 2.638'' | 1.201'' | 1.57'' | 3.35'' | 3.74'' | 3.72 |
| 494AG-09V | 3" | 2.461'' | 3.071'' | 1.772'' | 2.13'' | 3.90'' | 4.29'' | 0.97 |
| 494AG-10V | 3½" | 2.677'' | 3.465'' | 1.811'' | 2.09'' | Ø 4.47'' | Ø 4.47'' | 1.21 |
| 494AG-11V | 4" | 3.465'' | 3.898'' | 1.850'' | 2.17'' | Ø 4.94'' | Ø 4.94'' | 1.63 |
| 494AG-12V | 5" | 3.898'' | 4.449'' | 1.969'' | 2.24'' | Ø 5.94'' | Ø 5.94'' | 3.11 |
| 494AG-13V | 5" | 4.449'' | 5.039'' | 1.969'' | 3.23'' | Ø 6.91'' | Ø 6.91'' | 3.80 |




409NP-




494AG-

BICON

# Accessories

# Locknuts
## Brass & Aluminum Locknuts

FOR SECURING EXTERNAL THREADS INTO NON-THREADED EQUIPMENT
NICKEL PLATED BRASS, STANDARD BRASS & ALUMINUM DESIGNS

## Specifications

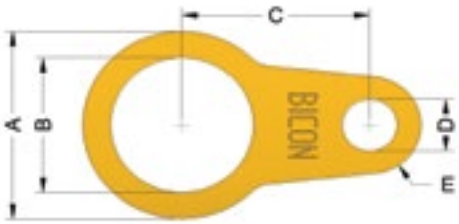
| Design Reference | | | Dimensions | | |
|---|---|---|---|---|---|
| Plated | Standard | Aluminum | Thread Size NPT | Thickness | A/F |
| 429NP-02V | 429NP-02 | 459NP-02 | ½" | 0.13'' | 1.06'' |
| 429NP-03V | 429NP-03 | 459NP-03 | ¾" | 0.15'' | 1.20'' |
| 429NP-04V | 429NP-04 | 459NP-04 | 1" | 0.21'' | 1.48'' |
| 429NP-05V | 429NP-05 | 459NP-05 | 1 ¼" | 0.22'' | 1.87'' |
| 429NP-06V | 429NP-06 | 459NP-06 | 1 ½" | 0.24'' | 2.20'' |
| 429NP-07V | 429NP-07 | 459NP-07 | 2" | 0.28'' | 2.76'' |
| 429NP-08V | 429NP-08 | 459NP-08 | 2 ½" | 0.30'' | 3.13'' |
| 429NP-09V | 429NP-09 | 459NP-09 | 3" | 0.37'' | 4.17'' |
| 429NP-10V | 429NP-10 | 459NP-10 | 3 ½" | 0.37'' | 4.53'' |

# Earthtags
## Brass Earth Tags

EARTH TAGS PROVIDE AN EARTH BOND CONNECTION BETWEEN THE GLAND AND THE EQUIPMENT. NICKEL PLATED BRASS & STANDARD BRASS DESIGNS

## Specifications

| Design Reference | | | Dimensions | | | | |
|---|---|---|---|---|---|---|---|
| Plated | Standard | NPT Hub Clearance | A | B | C | D | E |
| 428NP-02V | 428NP-02 | ½" | 1.08'' | 0.85'' | 1.30'' | 0.26'' | 0.24'' |
| 428NP-03V | 428NP-03 | ¾" | 1.37'' | 1.06'' | 1.40'' | 0.26'' | 0.24'' |
| 428NP-04V | 428NP-04 | 1" | 1.77'' | 1.34'' | 1.67'' | 0.49'' | 0.45'' |
| 428NP-05V | 428NP-05 | 1 ¼" | 2.11'' | 1.67'' | 1.77'' | 0.51'' | 0.65'' |
| 428NP-06V | 428NP-06 | 1 ½" | 2.56'' | 2.01'' | 2.28'' | 0.51'' | 0.93'' |
| 428NP-07V | 428NP-07 | 2" | 3.25'' | 2.52'' | 2.56'' | 0.51'' | 0.87'' |
| 428NP-08V | 428NP-08 | 2 ½" | 3.72'' | 3.01'' | 2.97'' | 0.51'' | 0.85'' |
| 428NP-09V | 428NP-09 | 3" | 4.41'' | 3.56'' | 3.15'' | 0.51'' | 0.85'' |
| 428NP-10V | 428NP-10 | 4" | 4.88'' | 4.02'' | 4.09'' | 0.55'' | 0.75'' |




All Earth Tags 0.059" Thick

# IP Washers
# Nylon Washers

TO IMPROVE THE IP RATING BETWEEN THE GLAND AND THE EQUIPMENT TO VALUES GREATER THAN IP54

## Specifications

| Design Reference | | Dimensions | | |
|---|---|---|---|---|
| Design No. | NPT Thread Size | Outside Diam | Inside Diam | Thickness |
| 25111016 | ½ | 1.260'' | 0.886'' | 0.063'' |
| 25111012 | ¾ | 1.496'' | 1.142'' | 0.063'' |
| 25111025 | 1 | 1.791'' | 1.339'' | 0.063'' |
| 25111017 | 1¼ | 2.165'' | 1.693'' | 0.059'' |
| 25111018 | 1 ½ | 2.559'' | 1.929'' | 0.059'' |
| 25111019 | 2 | 3.150'' | 2.402'' | 0.059'' |
| 25111020 | 2 ½ | 3.543'' | 2.953'' | 0.059'' |
| 25111021 | 3 | 4.528'' | 3.528'' | 0.059'' |

# Notes

# North American Cable Glands



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**www.biconcomponents.co.uk**

Prysmian Group

Doc ref: NthAmGlands03/15-02

PRYSMIAN

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