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YXQ PG29

YXQ PG29 Cable Gland Joints User Manual

Model: PG29

1. Introduction

The YXQ PG29 Cable Gland Joints are designed for secure and waterproof cable entry into various electrical enclosures and machinery. These glands feature a special design for the clamping die and rubber part, ensuring a wide clamping range and strong stretching resistance without causing damage to cables or devices. They are suitable for use in machinery control boxes, distribution panels, electrical appliances, and other similar applications.



Image 1.1: A set of twelve YXQ PG29 Cable Gland Joints, showcasing their uniform black color and robust design. Each gland is clearly marked with 'PG29'.

2. Key Features

- **Compatibility:** PG29 Cable Gland Joints are designed to fit cables or tubes with an outside diameter ranging from 18mm to 24mm.
- **Waterproof Rating:** Features an IP68 waterproof rating, providing high water resistance.
- **Durability:** Resistant to salt water, weak acids, alcohol, grease, and heat, ensuring long-term performance in various environments.
- **Dimensions:** Thread Length: 12mm (0.50"); Thread O.D.: 37mm; Total Size: 48mm (H) x 49mm (D).
- **Material:** Constructed from durable Nylon plastic, offering an anti-loose structure for reliable connections and extended service life.
- **Easy Installation:** Designed for direct cable insertion and easy tightening without the need for disassembly, saving time during installation.
- **Components:** Each gland consists of a lock nut, valve body, seal, and sealing nut, ensuring a complete and secure connection.

3. Package Contents

Each package contains:

- 12 x PG29 Cable Gland Joints

Each individual cable gland joint is comprised of the following parts:

- Lock Nut
- Valve Body (main body with internal threads)
- Seal (rubber gasket)
- Sealing Nut (cap)



Image 3.1: An exploded view of a single PG29 cable gland, illustrating its five distinct components: the main body, a washer, a lock nut, a rubber seal, and the sealing cap. This image helps visualize the parts that make up the complete gland.

4. Installation Guide

The YXQ PG29 Cable Gland Joints are designed for straightforward installation without the need for complete disassembly of the gland components.

1. **Prepare the Opening:** Ensure the mounting surface has an appropriately sized hole (approximately 37mm diameter) for the PG29 thread.
2. **Insert Cable:** Pass the cable through the sealing nut and the rubber seal.
3. **Thread Gland Body:** Insert the threaded portion of the gland body into the prepared opening from the outside of the enclosure.
4. **Secure with Lock Nut:** From the inside of the enclosure, thread the lock nut onto the gland body and tighten it securely to fasten the gland to the enclosure wall.
5. **Tighten Sealing Nut:** Once the cable is positioned correctly, tighten the sealing nut onto the gland body. This compresses the rubber seal around the cable, creating a waterproof and strain-relieved connection.

Ensure all components are tightened firmly to achieve the specified IP68 waterproof rating and optimal cable retention.

5. Operating and Application

Once installed, the PG29 Cable Gland provides a secure and waterproof entry point for cables into various electrical and mechanical systems. Its primary function is to maintain the integrity of the enclosure by preventing dust, dirt, and water ingress, while also providing strain relief for the cable.
These glands are applicable in a wide range of environments, including:

- Machinery control boxes
- Distribution panels

- Electrical appliances
- Industrial machines
- Outdoor electrical installations requiring environmental protection

The adjustable lock nut ensures a tight fit for cables within the specified diameter range (18-24mm), preventing movement and protecting the cable from abrasion at the entry point.

6. Technical Specifications

Specification	Value
Product Name	Cable Gland
Model	PG29
Cable Range	18-24mm / 0.71"- 0.94"
Thread Length	12mm / 0.50"
Thread O.D.	37mm
Total Size (H x D)	48 x 49mm / 1.9" x 2.0"
Material	Nylon Plastic
Color	Black
Weight (per piece)	Approx. 35.8g (430g / 12pcs)
Waterproof Rating	IP68
Number of Pieces	12



Image 6.1: Detailed specifications of the PG29 cable gland, including its model number, compatible cable diameter range, thread dimensions, IP rating, and material composition.

Product Specifications			
Model	Cable Range	Thread OD	Thread Length
PG7	3-6.5mm	12.5mm	9mm
PG9	4-8mm	15.2mm	9mm
PG11	5-10mm	18.6mm	9mm
PG13.5	6-11mm	20.4mm	10mm
PG16	10-13mm	22.5mm	10mm
PG19	12-15mm	24mm	10mm
PG21	13-18mm	28.3mm	12mm
PG25	16-21mm	30mm	12mm
PG29	18-24mm	37mm	12mm
PG36	22-32mm	47mm	15mm
PG42	32-38mm	54mm	18mm
PG48	35-45mm	59.3mm	18mm

Image 6.2: A comprehensive table outlining the specifications for various PG-series cable glands, including the PG29, detailing their respective cable ranges, thread outer diameters, and thread lengths for comparison and selection.

7. Maintenance

YXQ PG29 Cable Gland Joints are designed for durability and require minimal maintenance. Regular inspection is recommended to ensure continued performance:

- **Visual Inspection:** Periodically check the glands for any signs of physical damage, cracks, or degradation of the plastic or rubber seal, especially in harsh environments.
- **Tightness Check:** Ensure the sealing nut and lock nut remain securely tightened to maintain the waterproof seal and cable strain relief. Retighten if necessary.
- **Cleaning:** If exposed to dirt or debris, gently clean the exterior of the gland with a damp cloth. Avoid using harsh chemicals that could degrade the plastic material.

No internal lubrication or complex maintenance procedures are required for these cable glands.

8. Troubleshooting

Most issues with cable glands relate to improper installation or selection. Here are common issues and their solutions:

Problem	Possible Cause	Solution
Water Leakage / Not Waterproof	Sealing nut not tightened sufficiently. Incorrect cable diameter for the gland. Damaged rubber seal.	Ensure sealing nut is fully tightened. Verify cable diameter is within 18-24mm range. Replace the gland if the seal is damaged.
Cable Slippage / No Strain Relief	Sealing nut not tightened sufficiently. Cable diameter too small for the gland.	Tighten the sealing nut firmly. Use a smaller PG-sized gland if the cable is too thin.
Difficulty Inserting Cable	Cable diameter too large for the gland.	Ensure cable diameter is within 18-24mm range. Do not force the cable.
Gland Loosens from Enclosure	Lock nut not tightened sufficiently.	Tighten the lock nut securely against the enclosure wall.

9. Warranty and Support

Specific warranty information for YXQ PG29 Cable Gland Joints is not provided in the product details. For any inquiries regarding product support, technical assistance, or warranty claims, please contact the manufacturer, YXQ, directly through their official channels or the retailer from whom the product was purchased.
For more information, you may visit theYXQ Store on Amazon.

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