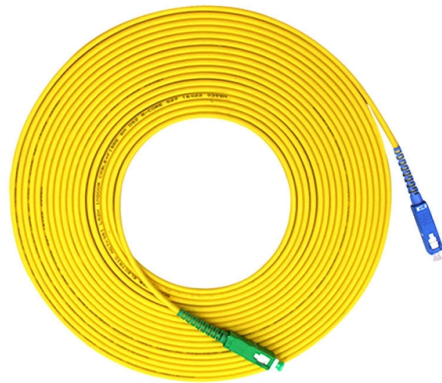


Specifications of rubber rings for inlet and outlet lines of distribution boxes



AI Overview

O-rings for distribution box inlet and outlet lines are typically elastomeric seals selected based on material compatibility, size, hardness, and application type to ensure leak-free performance. Material Selection For inlet and outlet lines, Nitrile Rubber (NBR) is commonly used due to its good mechanical properties, resistance to oils, greases, and hydraulic fluids, and cost-effectiveness. NBR's performance depends on acrylonitrile content: low ACN ensures flexibility at low temperatures, while higher ACN improves resistance to oils and fuels. For higher chemical resistance or elevated temperatures, FKM (Viton®) or PTFE-encapsulated elastomer O-rings may be used. Dimensions and Sizing O-rings are defined by inside diameter (ID) and cross-section diameter. Standard sizes follow AS-568 (imperial) or ISO 3601 (metric) standards. The groove design is critical: the groove depth must be slightly less than the O-ring cross-section to achieve proper compression, while the groove width should exceed the cross-section to allow for deformation and sealing. For static applications like distribution box lines, tolerances are more forgiving than for dynamic applications. Hardness O-ring hardness is measured in Shore A. Typical hardness for NBR O-rings in fluid lines ranges from 70 to 90 Shore A, balancing flexibility and resistance to extrusion under pressure. Hardness selection depends on operating pressure and temperature. Installation Considerations Avoid stretching the O-ring more than 5% of its ID to prevent loss of compression. Ensure the O-ring is seated properly in the groove to prevent extrusion or leaks. For inlet/outlet lines, static sealing is typical, so reciprocating or rotating motion is not a concern, but care must be taken to avoid sharp edges during installation. PTFE-coated or encapsulated O-rings can reduce friction and improve chemical resistance, especially in aggressiv...

Article Content

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Cable Sealing: Inlet and outlet cables must pass through rubber sealing rings, tightened with washers and compression nuts to ensure the integrity of the explosion-proof enclosure's seal.

26 05 33.16 Boxes for Electrical Systems

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format as described in MasterFormat® 2020 Edition.

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D_BOX.P65

Note: Inlet is 3" higher than outlets. Cut off end of cone at marker line. Use a fine sawblade. Squeeze pipe stub through cone from inside. End of cone will expand over pipe to make friction-fit joint. Install

Contact Us

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