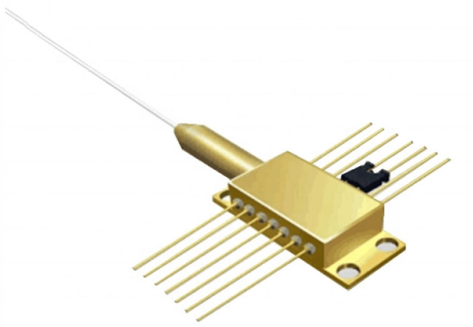
Distribution Box Hydraulic Connector Model



Overview

Operating principle This distributor exploits the motion of a distribution box that slides along its guide sleeve and covers/uncovers the openings which connect the delivery, use and discharge lines.

Key Takeaways

Hydraulic distribution boxes use modular connectors and manifolds to control and distribute hydraulic flow, with models varying by manufacturer, pressure rating, and system configuration.

Overview of Hydraulic Distribution Boxes

Hydraulic distribution boxes, also called distribution units or blocks, serve as the interface between a hydraulic power source and multiple consumers, such as actuators or testing machines. They typically consist of a distribution column and switching manifolds, which allow modular expansion and connection of multiple hydraulic lines, including pressurized oil, return oil, and leakage lines (ZwickRoell). Connector Models and TypesThree-Way Distribution BlocksExample: 2-1398-0 from AT Fluid Solutions, designed for single pressure lines and single-acting cylinders.

Features include modularity for up to 6 elements, spring-return versions, and unidirectional valves to maintain pressure even when other lines are in use. Additional modular blocks (e.g., 2-1406-0) can be mounted on the basic block for expanded functionality.

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Eaton Hydraulic Connectors

Include adapters, couplings, metric tube fittings, and swivel joints suitable for high-pressure applications. Designed for compatibility with Eaton hoses and industrial valves, supporting both mobile and stationary hydraulic systems. Quick disconnect couplings and crimped hose assemblies are available for flexible installation and maintenance.

Custom and Modular Manifolds

Distribution columns can be equipped with accumulators, filters, and hose sets to meet specific flow and pressure requirements. Modular construction allows later expansion without replacing the entire system.

CAD Models and Technical Resources

Ryco Hydraulics and TraceParts provide 3D CAD models in formats such as SOLIDWORKS, Inventor, CATIA, AutoCAD, STEP, and STL. These models are useful for design integration, FEA analysis, and manufacturing planning. Manufacturer datasheets often include hydraulic diagrams, pressure ratings, and connection schematics, which are essential for selecting the correct connector model.

Selection Considerations

When choosing a hydraulic connector model for a distribution box, consider: Pressure rating and flow capacity to match the hydraulic system. Compatibility with existing hoses and valves. Modularity for future expansion.

Ease of maintenance, including quick disconnect options.

CA

D availability for integration into system design. By referencing manufacturer datasheets and CAD libraries, engineers can select the appropriate distribution box hydraulic connector model for their specific application, ensuring reliable and efficient hydraulic system performance.

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Article Content

5.1.2.1 Hydraulic power locking unit

Operating principle This distributor exploits the motion of a distribution box that slides along its guide sleeve and covers/uncovers the openings which connect the delivery, use and discharge lines.

Hydraulics: 3D models

Discover all CAD files of the "Hydraulics" category from Supplier-Certified Catalogs SOLIDWORKS, Inventor, Creo, CATIA, Solid Edge, autoCAD, Revit and many more CAD software but also as STEP,

Pump Distribution Gearboxes GFC

ZF drives GFC are spur gearboxes for pump distribution for mining applications, large construction machinery and other mobile applications. ZF pump distribution gearboxes GFC drive diferent

Product Information Hydraulic distribution unit

The distribution column acts as a connecting and mounting unit on which the manifolds are mounted. Hydraulic pressurized oil, return oil and leakage oil lines are connected directly to the distribution

Distribution boxes – For modular and decentralized

Download our product catalog for sensor-actuator cabling and circular connectors or our portfolio overview for FieldPower® distribution boxes for power transmission

Pump distribution boxes

Are you looking for Pump distribution boxes? Total Hydraulics is your specialist regarding hydraulic components.□□.

Pump Distribution Gearbox GFC

ZF pump distribution gearboxes for driving different hydraulic pumps simultaneously are ideally suited for installation in large hydraulic excavators. ZF offers more than 50 years of experience in drive gears,

ACCESSORIES AND OTHER PRODUCTS | Lynch Fluid Controls

Lynch has access to an extensive and comprehensive range of internal- and external-thread connectors conforming to industry standard EN 175301-803 (formerly DIN 43650). Standard

Home Page | Eaton PowerSource

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Eaton industrial cylinders, available in standard or custom-engineered models, supply unmatched quality, variety and features to meet the needs of demanding applications.

Product Information Hydraulic distribution unit

Range of application Hydraulic distribution units act as an interface between a constant hydraulic supply and individual hydraulic consumers, servo-hydraulic testing actuators and testing machines. Reliable,

HEADERS AND JUNCTIONS | Lynch Fluid Controls

APPLICATIONS Surface Rig - Headers are used to neatly connect through ports in a hydraulic system to simplify installation and reduce losses and potential points

Universal Power Junction Box, UKK-125A Block

Universal Power Junction Box, UKK-125A Block Distribution Box Flame Retardant Shell Blocking Powering Distributions Boxes High Voltage Cabinets Din Rail

Wholesale distribution box hydraulics For Pro Power Distribution ...

Buy a wholesale distribution box hydraulics and experience smooth management and distribution of electricity. Visit Alibaba and order power distribution equipment that you like.

Hydraulic Distribution Manifold

Moog''s Hydraulic Distribution Manifold (HDM) addresses hydraulic power distribution for aerospace, automotive and other test systems. Configurations are adaptable to different flow rates and hydraulic

Junction Box

Overview The RMSpumptools SeaConnect™ Junction Box forms part of the electrical distribution system for all Signal and Monitoring requirements. The Junction Boxes are flexible and modular in

M12 Distribution Systems

Murrelektronik offers a versatile range of M12 distribution boxes designed to simplify wiring tasks in machines and automation systems. Alongside sensor modules, the product lineup includes

Geith® Control Box

With its straightforward installation process, the Geith Control Box integrates seamlessly into your workflow. It''s designed to be compatible with previous

Mechanical Design for Distribution Box | PDF | Hydraulic ...

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This document provides design calculations for a distribution box. It includes applicable standards, design data, requirements for radiography and joint efficiency, evaluation of materials, design

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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