

Fig. 5.2. Control of Single -Acting Hydraulic Cylinder.

C = Single acting cylinder

P = Pump

E = Electric Motor

T = Tank

F = Filter

R = Relief Valve

D =2-position, 3 way DCV Manually operated and spring return

#### 5.2 Control of Double -Acting Hydraulic Cylinder:

Double -Acting cylinders can be extended and retracted hydraulically. Thus, an output force can be applied in two directions.

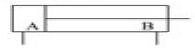


Fig 5.3 Double acting cylinder

# **Hydraulic Circuit Design Operation**

United States. Federal Aviation Administration

## **Hydraulic Circuit Design Operation:**

Hydraulic Fluid Power Andrea Vacca, Germano Franzoni, 2021-04-12 HYDRAULIC FLUID POWER LEARN MORE ABOUT HYDRAULIC TECHNOLOGY IN HYDRAULIC SYSTEMS DESIGN WITH THIS COMPREHENSIVE RESOURCE Hydraulic Fluid Power provides readers with an original approach to hydraulic technology education that focuses on the design of complete hydraulic systems Accomplished authors and researchers Andrea Vacca and Germano Franzoni begin by describing the foundational principles of hydraulics and the basic physical components of hydraulics systems. They go on to walk readers through the most practical and useful system concepts for controlling hydraulic functions in modern state of the art systems Written in an approachable and accessible style the book s concepts are classified analyzed presented and compared on a system level The book also provides readers with the basic and advanced tools required to understand how hydraulic circuit design affects the operation of the equipment in which it s found focusing on the energy performance and control features of each design architecture Readers will also learn how to choose the best design solution for any application Readers of Hydraulic Fluid Power will benefit from Approaching hydraulic fluid power concepts from an outside in perspective emphasizing a problem solving orientation Abundant numerical examples and end of chapter problems designed to aid the reader in learning and retaining the material A balance between academic and practical content derived from the authors experience in both academia and industry Strong coverage of the fundamentals of hydraulic systems including the equations and properties of hydraulic fluids Hydraulic Fluid Power is perfect for undergraduate and graduate students of mechanical agricultural and aerospace engineering as well as engineers designing hydraulic components mobile machineries or industrial systems AASHTO Load and Resistance Factor Design Movable Highway Bridge Design Specifications American Association of State Highway and Transportation Officials. Subcommittee on Bridges and Structures, 2007 Code of Federal Regulations, 2000 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries The Code of Federal Regulations of the United States of America ,1997 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government Aviation Structural Mechanic H 3 & 2 United States. Bureau of Naval Personnel, 1971 **Practical Hydraulic Systems: Operation and Troubleshooting for** Engineers and Technicians Ravi Doddannavar, Andries Barnard, Jayaraman Ganesh, 2005-02-07 Whatever your hydraulic applications Practical Hydraulic Systems Operation Troubleshooting For Engineers Technicians will help you to increase your knowledge of the fundamentals improve your maintenance programs and become an excellent troubleshooter of problems in this area Cutaways of all major components are included in the book to visually demonstrate the components construction and operation Developing an understanding of how it works leads to an understanding of how and why it fails Multimedia views of the equipment are shown to give as realistic a view of hydraulic systems as possible The book is highly practical

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