

Basic Fluid Power Formulas

Linear Force or Thrust:		
Force (lbs) = Area (in ²) x Pressure (psi)	$F_{lb} = AREA \times PSI$	$F_{lb} = Ap$
Force (N) = Area (cm ²) x Pressure (bar) x 10	$F_N = (AREA \times BAR) \times 10$	$F_N = 10(Ap)$
Power [hydraulic]:		
Power (hp) = Pressure (psi) x Flow (gpm) / 1714	$HP = \frac{PSI \times GPM}{1714}$	$P_{hp} = \frac{pQ}{1714}$
Power (kW) = Pressure (bar) x Flow (lpm) / 600	$kW = \frac{BAR \times LPM}{600}$	$P_{kw} = \frac{pQ}{600}$
*When calculating for sizing a system's prime mover, multiply answer by the pump's efficiency %.		
Power [pneumatic]:		
Power (hp) = Pressure (psi) x Flow (cfm) / 229	$HP = \frac{PSI \times CFM}{229}$	$P_{hp} = \frac{pQ}{229}$
Power (kW) = Pressure (bar) x Flow (dm ³ /min) / 600	$kW = \frac{BAR \times dm^3 / MIN}{600}$	$P_{kw} = \frac{pQ}{600}$
Power [mechanical]:		
Power (hp) = Torque (lb-in) x Speed (rpm) / 63025	$HP = \frac{LB.IN \times RPM}{63025}$	$P_{hp} = \frac{Tn}{63025}$
Power (hp) = Torque (lb-ft) x Speed (rpm) / 5252	$HP = \frac{LB.FT \times RPM}{5252}$	$P_{hp} = \frac{Tn}{5252}$
Power (hp) = Torque (Nm) x Speed (rpm) / 7124	$HP = \frac{Nm \times RPM}{7124}$	$P_{hp} = \frac{Tn}{7124}$
Power (kW) = Torque (Nm) x Speed (rpm) / 9543	$kW = \frac{Nm \times RPM}{9543}$	$P_{kw} = \frac{Tn}{9543}$
Fluid Power Motor Torque:		
Torque (lb-in) = Displacement (civ) x Pressure (psi) / 2π	$LB.IN. = \frac{CIV \times PSI}{6.28}$	$T_{lb/in} = \frac{Dp}{2\pi}$
Torque (lb-ft) = Displacement (civ) x Pressure (psi) / 24π	$LB.FT. = \frac{CIV \times PSI}{75.40}$	$T_{lb/ft} = \frac{Dp}{24\pi}$
Torque (Nm) = Displacement (ccr) x Pressure (bar) / 20π	$Nm = \frac{CCR \times BAR}{62.83}$	$T_{Nm} = \frac{Dp}{20\pi}$
Cylinder Travel Speed:		
Speed (in/min) = Flow (cim) / Area (in ²)	$IN / MIN = \frac{CIM}{AREA}$	$v_{ipm} = \frac{Q}{A}$
Speed (cm/min) = Flow (ccm) / Area (cm ²)	$CM / MIN = \frac{CCM}{AREA}$	$v_{cpm} = \frac{Q}{A}$
Velocity of Oil in Hydraulic Lines:		
Velocity (ft/sec) = Flow (gpm) x 0.3208 / Area (in ²)	$FT/SEC = \frac{GPM \times 0.3208}{AREA}$	$v_{fps} = \frac{0.3208Q}{A}$
Velocity (m/sec) = Flow (lpm) / Area (cm ²) x 6	$M/SEC = \frac{LPM}{AREA \times 6}$	$v_{mps} = \frac{Q}{6A}$

Basic Fluid Power

M. Winston



Basic Fluid Power:

Basic Fluid Power Dudley A. Pease, 1967 USA standard graphic symbols for fluid power diagrams p 330 351 added after the first printing *Basic Fluid Power*, 2020 Hydraulic Fluid Power Andrea Vacca, Germano Franzoni, 2021-04-19 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 **Basic Fluid Power** Pease, 1988-01-01

Basic Fluid Power A. Jarquin-Laguna, 2018-04 Essential Hydraulics M. Winston, 2014 This useful book is designed to provide a balanced coverage of basic hydraulics for anyone with zero knowledge about fluid power system It is structured to suit the learning of hydraulic control and system easier for everyone The step by step approach of each chapter also help to make learning hydraulic system as easy as learning ABC *Basics of Hydraulic Systems, Second Edition* Qin Zhang, 2019-03-07 This textbook surveys hydraulics and fluid power systems technology with new chapters on system modeling and hydraulic systems controls now included The text presents topics in a systematic way following the course of energy transmission in hydraulic power generation distribution deployment modeling and control in fluid power systems

Basics of Hydraulic Systems Qin Zhang, 2008-09-22 Draws the Link Between Service Knowledge and the Advanced Theory of Fluid Power Providing the fundamental knowledge on how a typical hydraulic system generates delivers and deploys fluid power *Basics of Hydraulic Systems* highlights the key configuration features of the components that are needed to support their functiona **Fluid Power Basics** Parker Hannifin Corporation, 1993-01-01 Fluid Power Technology

Robert P. Kokernak,1999 Ideal for use in industrial training seminars this well illustrated and exceptionally lucid guide to fluid power technology strikes just the right balance between theory and application providing both conceptual and practical information needed by today s technicians and technologists to succeed in the field Emphasizes the inherent simplicity of fluid power systems and their underlying principles of operation and develops each topic logically with careful attention to fine details First shows how and why fluid behaves in a particular manner next makes abstract concepts concrete by demonstrating how this behavior is evidenced in situations already familiar to readers then extends concepts to new conditions and applications Offers an adaptable approach to mathematics making readers at ease no matter what their skill level Offers many useful learning tools including safety sidebars suggested activities over 60% new to this edition exercises and problems 30% new and end of chapter questions many new Now adds a section on Using Computers to its introductory chapter

Basic Hydraulics TPC Training Systems,1974 **Dental Equipment Repair and Technology** United States. Naval Education and Training Command,1980 **Basic fluid power research program - annual report number 7** ,1973

School Shop ,1981 Fluid Power with Applications Anthony Esposito,1997 This study places emphasis on understanding how fluid power systems operate and on their practical applications A basic background in the field of fluid power is provided allowing students to understand the design analysis operation and maintenance of fluid power systems

Fluid Power Circuits and Controls John S. Cundiff,Michael F. Kocher,2019-12-05 Fluid Power Circuits and Controls Fundamentals and Applications Second Edition is designed for a first course in fluid power for undergraduate engineering students After an introduction to the design and function of components students apply what they ve learned and consider how the component operating characteristics interact with the rest of the circuit The Second Edition offers many new worked examples and additional exercises and problems in each chapter Half of these new problems involve the basic analysis of specific elements and the rest are design oriented emphasizing the analysis of system performance The envisioned course does not require a controls course as a prerequisite however it does lay a foundation for understanding the extraordinary productivity and accuracy that can be achieved when control engineers and fluid power engineers work as a team on a fluid power design problem A complete solutions manual is available for qualified adopting instructors

Hydraulics & Pneumatics ,1982 The Jan 1956 issue includes Fluid power engineering index 1931 55 **Fluid Power--hydraulics** Olaf A. Johnson,1983 **Basic Fluid Power Research Program Annual Report** Oklahoma State University. Fluid Power Research Center,1974 Fluid Power R. E. D. Dot RED DOT PUBLICATIONS,2017-11-05 Fluids at rest and in motion types and characteristics of hydraulic and pneumatic fluids major components of basic fluid power systems and diagrams used to illustrate these systems proper procedures and precautions for handling and replacing lines connectors and sealing devices proper procedures for eliminating contaminants purpose operation application of pumps reservoirs strainers filters accumulators flow control and measuring devices directional control valves and actuators arrangement and operation of

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