

## ANSI/ASME B73.1 vs B73.2 Pump Standards (Oil & Gas)

ANSI/ASME B73.1 and B73.2 are standards for centrifugal pumps in chemical and process industries. B73.1 covers **horizontal end-suction, single-stage** pumps (centerline discharge) (1), whereas B73.2 covers **vertical inline, single-stage** pumps (suction and discharge on one centerline) (2). Both standards mandate dimensional interchangeability of pump nozzles, shafts and mounting (so that pumps of the same "ANSI size" are interchangeable across manufacturers) (3) (4). Originally developed for chemical plants, these pumps are widely used in oil & gas (petrochemical and water handling) services (5). The table below compares key attributes of B73.1 (horizontal) vs. B73.2 (vertical) pumps in oil/gas applications:

Aspect	ANSI/ASME B73.1 (Horizontal End-Suction)	ANSI/ASME B73.2 (Vertical In-Line)
<b>Pump Configuration</b>	<b>Orientation:</b> Horizontal, end-suction, single-stage (centerline discharge) (1). <b>Mounting:</b> Foot-mounted on baseplate (standard ANSI layout).	<b>Orientation:</b> Vertical, in-line, single-stage (suction & discharge flanges co-linear) (2). <b>Mounting:</b> Direct pipe-mounted (no separate base).
<b>Design / Interchange</b>	<b>Features:</b> Foot-mounted design; ANSI B73.1 defines standard dimensions for suction/discharge locations, shaft, baseplate and bolt-hole pattern (3).	<b>Features:</b> In-line design; ANSI B73.2 likewise standardizes nozzle locations for interchange (4). Many models are <i>back-pull-out</i> (rotating assembly removable without disturbing piping) (5).
<b>Hydraulic Performance</b>	<b>Capacity/Head:</b> Wide range. Example – a low-flow B73.1 pump: 290 GPM at 925 ft head (6) (larger ANSI pumps reach thousands of GPM and several hundred feet head). <b>Efficiency:</b> Comparable to standard centrifugal pumps of similar size.	<b>Capacity/Head:</b> Similar range. Example – vertical B73.2 pumps: up to ~2,420–2,700 GPM and ~920–950 ft head (7) (8). Flow rates and heads are limited by single-stage design. <b>NPSH:</b> Vertical inlet (90° turn) causes slightly higher NPSH requirement than an equivalent horizontal pump (9).
<b>Materials (Wetted)</b>	<b>Options:</b> Metallic or solid polymer (B73.1 explicitly allows plastic pump bodies) (10). Common wetted materials: carbon steel, cast iron, 304/316 SS, high-strength stainless (CD4MCu/ A743), Alloy 20 (NiCu), duplex and nickel alloys (Hastelloy B/C), etc. (11). Corrosion allowance per spec.	<b>Options:</b> Metallic only. Standard: heavy-duty carbon-steel casing with 316L SS shaft (12). Also offered in 304/316 SS, duplex/super-duplex SS, nickel alloys (Alloy 20, Hastelloy), titanium, etc. High-alloy construction for corrosive hydrocarbons or sour service. (B73.2 does not cover solid-polymer designs.)

# Asme B73 Pump Standards

**Clifford Matthews**



## **Asme B73 Pump Standards:**

**Pump User's Handbook** Heinz P. Bloch, Allan R. Budris, 2004 Simply put this book explains what exactly needs to be done if a facility wants to progress from being a one two or three year pump MTBF plant and wishes to join the leading money making facilities that today achieve a demonstrated pump MTBF of 8 6 years

**Design of Thermal Energy Systems** Pradip Majumdar, 2021-06-01 Design of Thermal Energy Systems Pradip Majumdar Northern Illinois University USA A comprehensive introduction to the design and analysis of thermal energy systems Design of Thermal Energy Systems covers the fundamentals and applications in thermal energy systems and components including conventional power generation and cooling systems renewable energy systems heat recovery systems heat sinks and thermal management Practical examples are used throughout and are drawn from solar energy systems fuel cell and battery thermal management electrical and electronics cooling engine exhaust heat and emissions and manufacturing processes Recent research topics such as steady and unsteady state simulation and optimization methods are also included Key features Provides a comprehensive introduction to the design and analysis of thermal energy systems covering fundamentals and applications Includes a wide range of industrial application problems and worked out example problems Applies thermal analysis techniques to generate design specification and ratings Demonstrates how to design thermal systems and components to meet engineering specifications Considers alternative options and allows for the estimation of cost and feasibility of thermal systems Accompanied by a website including software for design and analysis a solutions manual and presentation files with PowerPoint slides The book is essential reading for practicing engineers in energy and power industries consulting engineers in mechanical electrical and chemical engineering and senior undergraduate and graduate engineering students

**The Little Engineer's Guide** Saad Mahir , 2020-04-30 The rapid technological development in the oil industries and other industrial fields has eliminated the use of many devices and equipment and compensated by more sophisticated devices and equipment in the implementation of the orders of operators or major control devices at the sites of this equipment In this book we have tried to shed light on the equipment and devices used in the most commonly used oil and industrial sectors and know their types and working conditions

**Fluid Machinery** Heinz Bloch, 2020-06-22 Fluid movers are extensively used in the process industries New machines are specified designed manufactured and installed in a way that ensures their safety and reliability Existing machines may be upgraded or retrofitted during maintenance or repair This book describes how improved components and better lubricant application provisions among other experience based measures can safely extend operating life and increase profitability

*Maintenance, Reliability and Troubleshooting in Rotating Machinery* Robert X. Perez, 2022-06-21 Maintenance Reliability and Troubleshooting in ROTATING MACHINERY This broad collection of current rotating machinery topics written by industry experts is a must have for rotating equipment engineers maintenance personnel students and anyone else wanting to stay abreast with current rotating machinery concepts and technology

Rotating machinery represents a broad category of equipment which includes pumps compressors fans gas turbines electric motors internal combustion engines and other equipment that are critical to the efficient operation of process facilities around the world These machines must be designed to move gases and liquids safely reliably and in an environmentally friendly manner To fully understand rotating machinery owners must be familiar with their associated technologies such as machine design lubrication fluid dynamics thermodynamics rotordynamics vibration analysis condition monitoring maintenance practices reliability theory and other topics The goal of the Advances in Rotating Machinery book series is to provide industry practitioners a time savings means of learning about the most up to date rotating machinery ideas and best practices This three book series will cover industry relevant topics such as design assessments modeling reliability improvements maintenance methods and best practices reliability audits data collection data analysis condition monitoring and more Volume one began the series by focusing on design and analysis Volume two continues the series by covering important machinery reliability concepts and offering practical reliability improvement ideas Best in class production facilities require exceptional machinery reliability performance In this volume exceptional machinery reliability is defined as the ability of critical rotating machines to consistently perform as designed without degradation or failure until their next scheduled overhaul Readers will find this volume chock full of practical ideas they can use to improve the reliability and efficiency of their machinery Maintenance Reliability and Troubleshooting in Rotating Machinery covers among many other topics General machinery reliability advice Understanding failure data Design audits and improvement ideas Maintenance best practices Analyzing failures

**Index of Specifications and Standards**, 2000 Hydraulic Design Handbook Larry W. Mays, 1999 Hydraulics of pressurized flow Hydraulics of open channel flow Subsurface flow and transport Environmental hydraulics Sedimentation and erosion hydraulics Risk reliability based hydraulics engineering design Hydraulics design for energy generation Hydraulics of water distribution systems Pump system hydraulic design Water distribution system design Hydraulic transient design for pipeline systems Hydraulic design of drainage for highways Hydraulic design of urban drainage systems Hydraulics design of culverts and highway structures Hydraulic design of flood control channels Hydraulic design of spillways Hydraulic design of stilling basins and energy dissipators Floodplain hydraulics Flow transitions and energy dissipators for culverts and channels Hydraulic design of flow measuring structures Water and wastewater treatment plant hydraulics Hydraulic design for groundwater contamination Artificial recharge of groundwater systems design and ma

**Progress in Pumps** Jay Matley, 1989 **Water Distribution System Handbook** Larry W. Mays, 1999-10-21 All in one state of the art guide to safe drinking water Civil engineers and anyone else involved in any way with the design analysis operation maintenance or rehabilitation of water distribution systems will find practical guidance in Water Distribution Systems Handbook Experts selected by Handbook editor Larry W Mays provide historical present day and future perspectives as well as state of the art details previously available only in specialized journals You get a comprehensively

detailed exploration of every facet of the hydraulics of pressurized flow piping design and pipeline systems storage issues reliability analysis and distribution and more Detailed information on the latest technology contributions and on enhancements to the EPANET model are included You ll also find case studies that range from the small municipal systems found in every U S town to large systems common to great urban centers like New York London and Paris *ASME Engineer's Data Book* Clifford Matthews,2005 This greatly expanded second edition of this popular and handy reference book includes over 100 new pages including extensive coverage of Section VIII of the ASME Pressure Vessel Code Divided into 22 sections this pocket sized volume is an exhaustive quick reference of up to date engineering data and rules It includes essential mathematics units engineering design processes and principles basic mechanical design motion mechanics of materials material failure thermodynamics fluid mechanics fluid equipment vessel codes and standards materials machine elements design and production tools project engineering computer aided engineering welding non destructive examination corrosion surface protection metallurgical terms and engineering associations and organizations *Proceedings of the ... International Pump Symposium* ,1986 **Proceedings of the ... International Pump Users Symposium** ,1995 **ASHRAE Handbook** ,2004 *Chemical Engineering* ,2007 **Pump Handbook** Igor Karassik,Joseph Messina,Paul Cooper,Charles Heald,2000-10-18 A major revision of McGraw Hill s classic handbook that provides practical data and know how on the design application specification purchase operation troubleshooting and maintenance of pumps of every type It is an essential working tool for engineers in a wide variety of industries all those who are pump specialists in addition to those who need to acquaint themselves with pump technology Contributed to by over 75 distinguished professionals and specialists in each and every area of practical pump technology **1989-1990 Catalog of American National Standards** American National Standards Institute,1989 **Chemical Engineering Progress** ,2005 *Index and Directory of U.S. Industry Standards* ,1987 **Thomas Register of American Manufacturers** ,2003 Vols for 1970 71 includes manufacturers catalogs *Perry's Chemical Engineers' Handbook, Eighth Edition* Don W. Green,Robert H. Perry,2007-11-13 Get Cutting Edge Coverage of All Chemical Engineering Topics from Fundamentals to the Latest Computer Applications First published in 1934 Perry s Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry s Chemcial Engineering Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories Inside This Updated Chemical Engineering Guide Conversion

Factors and Mathematical Symbols Physical and Chemical Data Mathematics Thermodynamics Heat and Mass Transfer Fluid and Particle Dynamics Reaction Kinetics Process Control Process Economics Transport and Storage of Fluids Heat Transfer Equipment Psychrometry Evaporative Cooling and Solids Drying Distillation Gas Absorption and Gas Liquid System Design Liquid Liquid Extraction Operations and Equipment Adsorption and Ion Exchange Gas Solid Operations and Equipment Liquid Solid Operations and Equipment Solid Solid Operations and Equipment Size Reduction and Size Enlargement Handling of Bulk Solids and Packaging of Solids and Liquids Alternative Separation Processes And Many Other Topics

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