

PUMP SELECTION CHART

(ACTUAL VOLUMES, ALLOWING FOR LOSSES AND FOR CONTINUOUS DELIVERY)

PUMP HEADS

Standard
character (steel)
high volume

1 mPa = 1000 kPa = 10 bar							1 kg = 0.347 mPa					
Pump type	500 = 160 K.P.M.			750 = 400 K.P.M.			1000 = 400 K.P.M.			4000 = 170 K.P.M.		
grouper size mm	Max Press BAR	Vol L/min	Power kW	Max Press BAR	Vol L/min	Power kW	Max Press BAR	Vol L/min	Power kW	Max Press BAR	Vol L/min	Power kW
10	710	13	11									
12				800	27	68						
14				740	35	68						
16	900	34	14									
18				850	44	91	1000	50	68			
20	600	47	14	850	52	92	900	60	104			
22	940	51	12	480	61	94	780	74	107			
24	940	70	14	840	66	99	970	105	107	1000	95	174
26	110	98	14	100	114	99	480	143	107	740	145	104
28	140	117	14	110	146	99	140	146	107	400	188	211
30				140	175	99	180	174	107	490	178	207
32				140	200	99	280	204	107	400	270	209
Pump stroke	40 mm			70 mm			100 mm			110 mm		

PACKING LENGTHS FOR PRESSURE CYLINDERS

SIZE	P/CH L.B.	PACKING	LENGTH	
P 14	150mm	1/4"	1200mm	
P 18	450mm	5/8"	1150mm	
P 20 (SCD)	400mm	1/8"	1300mm	
P 18 (SCD)	450mm	5/8"	1150mm	
P 30	450mm	3/4"	1400mm	
P 35	500mm	3/4"	1500mm	
P 40	550mm	3/4"	1700mm	
P 45	600mm	3/4"	1800mm	

Well Pump Selection Guide

Brian Nesbitt

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Well Pump Selection Guide:

Pump Selection and Troubleshooting Field Guide Richard P. Beverly, 2009 **A Guide to the Selection of Materials for Monitoring Well Construction and Ground-water Sampling** Michael J. Barcelona, James P. Gibb, Robin A. Miller, 1983
Multiservice Procedures for Well-drilling Operations, 1995 Groundwater Technology Handbook A.R. Mahendra, 2013-11-14 The book presents a comprehensive yet concise analysis of groundwater occurrence its development technology involved in exploration extraction and its economical usage The book makes use of minimum technical jargon while explaining the basics of drilling types of wells their maintenance development and testing and selection of pumps It discusses the causes for wells failing methods of diagnosis and the pre emptive and remedial measures water transmission composition and purification Unlike other natural resources groundwater is replenished by rainfall Nevertheless those who depend on groundwater either for industrial or agricultural sustenance should be responsive to certain factors that are significant to the long term well being of the water source Important are Whether the wells are being over pumped or under pumped the quantity and cost of water being drawn whether there is sufficient water underground with optimum replenishment and systems installed are compatible to the particular hydrological situation and similar such factors The book attempts in simplistic language to link the gap between theory and practice between the principles of groundwater as a natural science and its application technology There are a number of pre calculated tables that serve as a handy reference for Consultants Drillers and Engineers who deal with groundwater on a day to day basis *Practical Guide for Ground-water Sampling* Michael J. Barcelona, Illinois State Water Survey, 1985 *Rural Water Systems Planning and Engineering Guide* Michael D. Campbell, Jay H. Lehr, 1973 *Practical Guide for Ground-water Sampling*, 1985
Engineering Handbook for Soil Conservationists in the Corn Belt, 1958 **An Introduction to Groundwater Well Pumps** J. Paul Guyer, P.E., R.A., 2020-05-20 Introductory technical guidance for civil and mechanical engineers and construction managers interested in pumps for groundwater wells Here is what is discussed 1 INTRODUCTION 2 CONVENTIONAL VERTICAL TURBINE PUMPS 3 SUBMERSIBLE PUMPS 4 JET PUMPS 5 PNEUMATIC PUMPS 6 AIRLIFT PUMPS 7 POSITIVE DISPLACEMENT PUMPS 8 SUCTION PUMPS 9 ESTIMATING PROJECTED PUMPING LEVELS 10 ANALYSIS OF BASIC DATA ON WELL AND PUMP 11 ADDITIONAL FACTORS IN PUMPING EQUIPMENT DESIGN 12 MEASURING PUMP PERFORMANCE 13 ESTIMATING TOTAL PUMPING HEAD 14 ESTIMATING HORSEPOWER INPUT 15 MEASURING PUMP DISCHARGE 16 MEASURING PUMP EFFICIENCY 17 SELECTION OF ELECTRIC MOTORS 18 SELECTION OF INTERNAL COMBUSTION ENGINES *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1962 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Farm Planners' Engineering Handbook for the Upper Mississippi Region**, 1953 *Electrical Submersible Pumps Manual* Gabor Takacs, 2017-09-22 Electrical Submersible Pumps Manual Design Operations and

Maintenance Second Edition continues to deliver the information needed with updated developments technology and operational case studies New content on gas handlers permanent magnet motors and newly designed stage geometries are all included Flowing from basic to intermediate to special applications particularly for harsh environments this reference also includes workshop materials and class style examples for trainers to utilize for the newly hired production engineer Other updates include novel pump stage designs high performance motors and temperature problems and solutions specific for high temperature wells Effective and reliable when used properly electrical submersible pumps ESPs can be expensive to purchase and maintain Selecting the correct pump and operating it properly are essential for consistent flow from production wells Despite this there is not a dedicated go to reference to train personnel and engineers This book keeps engineers and managers involved in ESPs knowledgeable and up to date on this advantageous equipment utilized for the oil and gas industry Includes updates such as new classroom examples for training and more operational information including production control Features a rewritten section on failures and troubleshooting Covers the latest equipment developments and maintenance needed Serves as a useful daily reference for both practicing and newly hired engineers Explores basic electrical hydraulics and motors as well as more advanced equipment specific to special conditions such as production of deviated and high temperature wells **Ground Water Manual** ,1985 Ground Water Manual United States.

Department of the Interior. Water and Power Resources Service,1981 **Selected Water Resources Abstracts** ,1989

Wastewater Treatment Plants Syed R. Qasim,2017-11-22 Step by step procedures for planning design construction and operation Health and environment Process improvements Stormwater and combined sewer control and treatment Effluent disposal and reuse Biosolids disposal and reuse On site treatment and disposal of small flows Wastewater treatment plants should be designed so that the effluent standards and reuse objectives and biosolids regulations can be met with reasonable ease and cost The design should incorporate flexibility for dealing with seasonal changes as well as long term changes in wastewater quality and future regulations Good planning and design therefore must be based on five major steps characterization of the raw wastewater quality and effluent pre design studies to develop alternative processes and selection of final process train detailed design of the selected alternative contraction and operation and maintenance of the completed facility Engineers scientists and financial analysts must utilize principles from a wide range of disciplines engineering chemistry microbiology geology architecture and economics to carry out the responsibilities of designing a wastewater treatment plant The objective of this book is to present the technical and nontechnical issues that are most commonly addressed in the planning and design reports for wastewater treatment facilities prepared by practicing engineers Topics discussed include facility planning process description process selection logic mass balance calculations design calculations and concepts for equipment sizing Theory design operation and maintenance trouble shooting equipment selection and specifications are integrated for each treatment process Thus delineation of such information for use by students and

practicing engineers is the main purpose of this book

Guidance for Professional Development in Drinking Water and Wastewater Industry Archis Ambulkar, 2015-02-15

Guidance for Professional Development in Drinking Water and Wastewater Industry recognises the water practitioners journey from the novice student phase all the way to an established expert position both on technological and professional fronts This book reviews various career phases and helps realise purpose motivation responsibilities and milestones for each professional stage Since professional journeys are significantly different for individuals and designations titles vary widely from organization to organization general terminologies are used for describing career phases mainly Student Phase Entry Level Professional Mid Level Professional and Established Practitioner This guide helps the reader to understand a step by step professional development process in the industry and at the same time receive key inputs to minimise or avoid common mistakes related to the drinking water or wastewater occupations The book provides an overview of common educational options available for students including short term courses diploma and certificates associate degrees bachelor degree masters degree doctorate degree post doctoral fellowship and continued education With respect to job profiles the guide covers different professional avenues such as consultant engineer designer researcher academic faculty member sales and marketing permitting authority staff laboratory professionals system operators construction management staff manufacturing and industry staff In terms of technological knowledge both drinking water and wastewater infrastructure systems are reviewed in the book Discussions on drinking water systems mainly include intake structures treatment systems distributions network components whereas wastewater systems include collection and conveyance systems treatment options and sludge management systems Guidance for Professional Development in Drinking Water and Wastewater Industry is useful for every professional in the industry and particularly prospective students It can be used by mentors and established practitioners as a guidance tool for training newcomers Author Archis Ambulkar Harrisburg PA USA

Petroleum Refining Design and Applications Handbook, Volume 2 A. Kayode Coker, 2021-04-13

A must read for any practicing engineer or student in this area There is a renaissance that is occurring in chemical and process engineering and it is crucial for today's scientists engineers technicians and operators to stay current This book offers the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without

Ground Water Manual United States. Bureau of Reclamation, 1995

Agriculture Handbook, 1953

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