

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 = 0.147 lbf					
Pump type	500 = 140 K.P.M.			750 = 400 K.P.M.			1000 = 400 K.P.M.			4000 = 170 K.P.M.		
plunger 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	63						
14				740	35	68						
16	900	34	34									
18				850	44	71	1000	50	69			
20	600	47	34	850	52	72	900	60	104			
30	940	51	52	480	62	94	780	74	107			
35	140	70	54	840	88	77	170	105	107	1000	95	174
40	210	88	54	280	114	55	480	143	107	740	145	154
45	140	107	64	220	146	55	340	168	107	600	188	213
50				180	175	55	280	214	107	490	228	227
55				140	200	55	280	264	107	400	270	229
Pump stroke	40 mm			70 mm			100 mm			110 mm		

PACKING LENGTHS FOR PRESSURE CYLINDERS

SIZE	P/CH. I.D.	PACKING	LENGTH	
P 14	19mm	1/4"	120mm	
P 18	45mm	5/8"	115mm	
P 20 (SCD)	40mm	1/2"	130mm	
P 18 (SCD)	45mm	5/8"	115mm	
P 30	45mm	3/4"	140mm	
P 35	50mm	3/4"	150mm	
P 40	55mm	3/4"	170mm	
P 45	60mm	3/4"	180mm	

Well Pump Selection Guide

CL Gary

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the 'CL Gary' text.

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

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