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this series of articles explains what a pump is what the main parts of a pump are how to pick the right pump design for an application and much more all the plant knows is their requirements maybe they want to pump 1 000 gallons per minute gpm from a cold water tank 2 miles away to a heat exchanger and return the water to the tank thus the details of the pump will start to emerge 1 before talking about a pump consider the pipe july 22 2020 we use pumps every day but do we know how pumps work from watering our lawns and keeping our pools functional to cooling our homes and fueling our cars pumps have countless common applications but the specifics of their function escape most of us in pump sizing two factors are needed to select a pump flow and pressure flow is generally measured in gallons per minute gpm the max instantaneous flow that will be entering the pump s basin needs to be determined so that a pump can be selected to efficiently maintain the system course 1 5 modules 36 basic principles and pump types 0 completed 00 01 45 about pumps and the two main pump types a short general introduction to positive displacement and centrifugal pumps grundfos pump types grundfos produces 10 main pump types explore them here main impeller types in this article we learn how to perform pump calculations in

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you avoid common centrifugal pump mistakes by jim elsey summit pump inc 06 18 2018 i have been writing common pumping mistakes for pumps systems for more than three years typically the hardest part of the job is topic selection so it will be fresh educational and interesting 1 how to read a centrifugal pump performance curve curves typically include performance metrics based on pressure flow horsepower impeller trim and net positive suction head required npshr a bigger pump often it is easier to change the pipe or tube than to change the pump in practice to get the optimal system you have to select the pump capacity i e flow rate and head in conjunction with the right pipe or tube size to get the flow rate you intend at the destination the next time you re at the gas station you ll know exactly how that pump knows when to stop thanks to the clever application of the venturi effect and a carefully designed mechanical response system this technology not only makes our lives easier but also contributes to a safer and more sustainable world online pump calculator si units the calculator below can used to calculate the hydraulic and shaft power of a pump q flow m³ h ρ density of fluid kg m³ g gravity m s² h differential head m η pump efficiency understand the performance characteristics of pumping systems gain an enhanced understanding of a systems versus component approach to optimise the energy efficiency of pumping systems identify performance problems and systems that are most likely to yield energy efficiency savings step 1 search for your product to find the pump performance curve you need simply type the pump name into the product search field and select the product and model you want this will then provide the right pump curve as well as

additional pump information step 2 review the information 1 a device that forces liquid air or gas into or out of something an air pump a water pump a foot hand pump a pump that you operate by using your foot hand more examples see picture at bicycle 2 the act of pumping something three more pumps and the tire should be full enough at the pump us informal also at the pumps 1 flow rate head height the more height there is in the system the higher the flow rate and head height requirements of the pump public domain the first step in sizing a pump is finding the flow rate you need flow rate refers to the volume of water moved per unit of time

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this series of articles explains what a pump is what the main parts of a pump are how to pick the right pump design for an application and much more

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a pump curve is a graphical representation of the performance characteristics of a pump a pump curve provides a wealth of information regarding the performance capabilities of a pump information is plotted on an x y graph where the x axis is measured in units of flow and the y axis is measured in units of head power and npshr

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example 1 pump sizing and selection the following is a pump sizing problem to illustrate the calculations in this article you are told to purchase a pump for your manufacturing facility that will carry water to the top of a tower at your facility the pump is a centrifugal pump that will need to pump 800 gal min when in normal operation

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method 1 calculating water horsepower for a planned project download article 1 decide on the desired flow rate the needs of your project determine the necessary flow rate of liquid from the pump write this value down in gallons per minute gpm

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a bigger pump often it is easier to change the pipe or tube than to change the pump in practice to get the optimal system you have to select the pump capacity i e flow rate and head in conjunction with the right pipe or tube size to get the flow rate you intend at the destination

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understand the performance characteristics of pumping systems gain an enhanced understanding of a systems versus component approach to optimise the energy efficiency of pumping systems identify performance problems and systems that are most likely to yield energy efficiency savings

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1 a device that forces liquid air or gas into or out of something an air pump a water pump a foot hand pump a pump that you operate by using your foot hand more examples see picture at bicycle 2 the act of pumping something three more pumps and the tire should be full enough at the pump us informal also at the pumps

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