

October 11th 2010 ~ Monday Morning Minutes:

Centrifugal Pump Selection for Hydronic Systems (Part 1)

You've selected the GPM (gallons per minute) flow rate and the pump head. You corrected the head for the fluid as described in the last few articles. It's time to select a pump. Why do you select one pump over another and how do you, as the specifying engineer, make sure the submitted pump is remotely close to the one you selected. The R. L. Deppmann Monday Morning Minutes looks at this starting today.

Before looking at pump curves let's decide what type of pump to use. Should it be inline, end suction, base mounted, close coupled, flexibly coupled double suction, vertical turbine, or any number of other types. Often this decision is made for you through office standards but let's review the advantages of each.

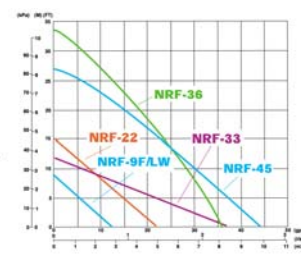
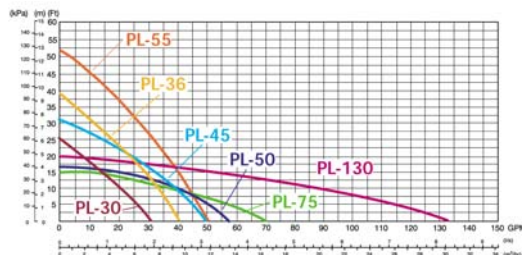


B&G Series 100 3-piece Circulator



B&G PL Close Coupled Circulator

ITT Bell and Gossett (B&G) inline pumps come in a variety of sizes and construction. Very small inline pumps similar to ones used in residential applications are great for AHU coils and low flow secondary pumps. These pumps are available in the "tried and true" three piece circulator style or close coupled NRF or PL style. The issue we often find with the 3-piece circulator is the oil lubricated bearings. These bearings provide quiet reliable service but require maintenance. Many of your clients prefer maintenance free circulators so we suggest the NRF and PL pumps for small applications.




I would recommend you select the B&G PL or NRF wet rotor pumps for those small low head heating and cooling applications under ½ HP. These loads are low enough for these pumps to provide years of trouble free operation without the cost of larger inline pump construction. Next week we will provide information about the larger inline pumps. [Click HERE](#) to have a sales engineer contact you for update suggestions to your pump specifications.

Get the right fluids for your HVAC System

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