
Difficult Pump Application/Selection

Posted by Jason1234 - 2008/06/18 09:44

I am having some trouble finding a supplier or manufacturer that can supply a pump for an application.

The situation is as follows;

We use non-clog trash pumps made of alloy-20 (50TDH, 600GPM) on an effluent application. The pumps are located below grade, are in a confined space, flood when it rains hard, and are no longer resonably available. (30-36 wks)

Ideally I want to find a pump manufacturer that can supply a self-priming non-clog trash pump constructed of alloy-20 or hastalloy-c.

Any suggestions?

Thanks

Re:Difficult Pump Application/Selection

Posted by Norvicute - 2008/06/22 23:05

Hi there Jason and to all as well. :)

If you would need a self priming non-clog trash pump, there are some manufacturer that can supply your requirement.

Were currently using a trash hog type pump which is basically good in handling slurries and solids and the pump is a self priming as well.

You can search for a "trash hog" on your net and you will see several manufacturer.

You did not specify the unit of your TDH I guess that was in feet. If that is in meters your TDH would be too high for a self priming non-clog.

Please let me know if I can help further.

;) ;)

Re:Difficult Pump Application/Selection

Posted by Norvicute - 2008/06/22 23:23

Hi Jason,

I do some searching.. Check this

http://www.gouldspumps.com/download_files/trashhog/Trashhog_b715-2.pdf

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Re:Difficult Pump Application/Selection

Posted by njjicheng - 2008/06/24 23:30

Seek help

Hello,

our plant will revamp super high BFW system, and need add a new BFW feed pump. At present, there are three pumps in this system, one is motor driven,two are driven by turbine. normally, two run, one standby. Normal flow of every pump is 170M3/h, and the dischaige pressure is 15Mpa, the temperature is 120 . now , the problem is we can not find a duplicate to existing pump and we add a different pump will bring what result, whether it will cause unstable or other situations? the textbook said it is not recommended two different pumps work together. in addition , I aslo consult some

power plant engineers , they also held same opinions , BFW feed pumps in most of PP are produced by same manufacturer.

So, I would like to seek some expert to clear my confusion and give some comments for this matter.

For further communication, you can send E-mail to Shijc@basf-ypc.com.cn, I am looking forward to hearing you .

Thanks!

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Re:Difficult Pump Application/Selection

Posted by Norvicute - 2008/06/25 00:34

Hi njjicheng :) :) ,

If your going to run the additional pumps in parrallel with the existing, you cannot have different pump otherwise you have to provide the pump curve to the manufacturer for them to have proper selection. This is important.

Have you check with me OEM (original equipt. mfg). If they already discontinued the pump model they might have a replacement one.

Since you have mentioned that your plant will revamp a high BWF system. There would be changes on your operating conditions. Does the existing pumps can perform well on that changes? You have to check with your OEM.

Please let me know if I can help further.

:) :) :)

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Re:Difficult Pump Application/Selection

Posted by njjicheng - 2008/06/25 23:32

Dear Norvicute,

The BFW system revamping of our plant is based on wholly plant expansion, just only need add a new pump to parallel with other three pumps, the design operation model will be three pumps running and one standby.

Just as you mentioned, we checked OEM and expected data sheet for revamped plant and found the shortage is less than the normal flowrate of one exsiting pump,only it is 60% of the latter. So new issue arising, which is better, add a same capacity pump or add a samller pump. The operating conditons will be change if add a same capacity pump. But adding a small pump is also not a good option, I think.

Appreciate your feedback.

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Re:Difficult Pump Application/Selection

Posted by Norvicute - 2008/06/27 18:12

Hello njjicheng,

If you will run the new pump in parrallel with the old two it is not a good idea to have a smaller pump since they will have a constant TDH (HEAD) and combined capacity. Just I said you have to provide the pump curve (curve characteristic) of the old two pumps to the pump manufacturer for them to have proper pump size selection.

If you have problem communicating with the EOM of your existing pump you may contact me at nvnavalta@yahoo.com.

Regards, :) :) ;)

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Re:Difficult Pump Application/Selection

Posted by Gerald - 2008/08/22 12:31

a Vertical progressing cavity pump. the pumping element in submerge hence it will never have problems priming. send us your requirements at nemopump@netzschusa.com we will select you an option delivery is about 8 - 10 weeks.

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