

PUMPING SYSTEMS

- **Operate pumps near best efficiency point.**

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- **Modify pumping system and pumps losses to minimize throttling.**

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- **Adapt to wide load variation with variable speed drives or sequenced control of multiple units.**

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- **Stop running multiple pumps - add an auto-start for an on-line spare or add a booster pump in the problem area.**

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- **Use booster pumps for small loads requiring higher pressures.**

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- **Increase fluid temperature differentials to reduce pumping rates in case of heat exchangers.**

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- **Repair seals and packing to minimize water loss by dripping.**

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- **Balance the system to minimize flows and reduce pump power requirements.**

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- **Avoid pumping head with a free-fall return (gravity); Use siphon effect to advantage**

PUMPING SYSTEMS

- **Conduct water balance to minimise water consumption**