



Technical Paper

Energy efficient pump components

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Minimising Power Losses in Sealless Pumps

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Summary

Centrifugal pump energy efficiency is an area of major interest with governments across the world. The European Energy Using Products Directive (EuP) will lead inevitably to minimum product standards for water pumps. This process will gain momentum and pumps for other liquids will come under scrutiny as energy issues remain high on the political agenda.

Where will this leave Sealless pumps which are used extensively in the Chemical and Petrochemical Industry? An important class of centrifugal pump offering high security for dangerous liquids, they have drive losses that mean that there is a penalty for the security from emissions that they deliver.

Losses in Sealless pumps can be minimised by proper selection of pump type and by a clearer understanding of how these losses are generated. This paper outlines how to select and manage the operation of Sealless pumps to minimise their energy consumption.