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Range Versus Efficiency – A Dilemma for Compressor Designers and Users (TP071)

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ABSTRACT

The paper describes the compromises that compressor designers must make between peak attainable efficiency and overall operating range. The paper described how component designs such as impellers, diffusers, and return channels impact the balance between efficiency and overall flow range. Similarly, the importance of proper aerodynamic matching of these components within a stage or from stage-to-stage within a compressor is emphasized.

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