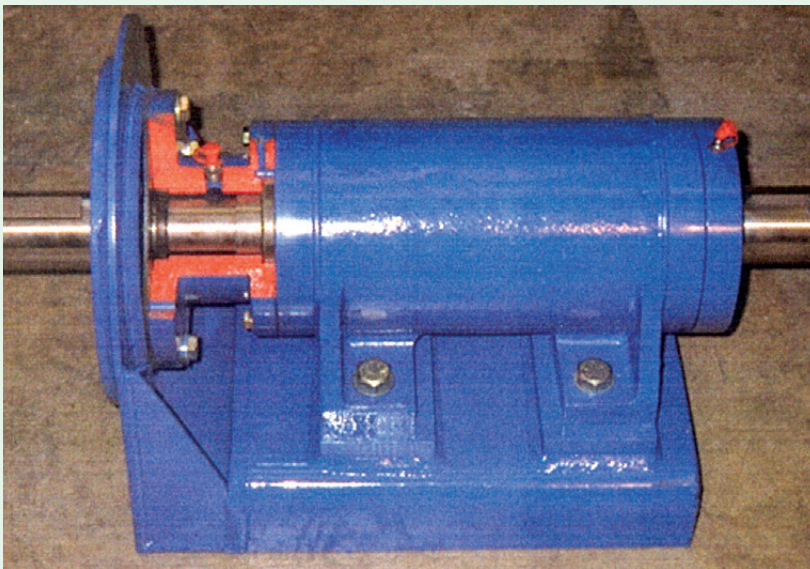


case study



Gas-tight seal and bearing assembly

To meet growing customer demands for efficient, gas-tight seals for fan assemblies, Halifax Fan specially developed an innovative simple efficient design.



Application benefits

- Gas-tight, simple and efficient construction
- Working pressures up to 30kPa
- Low-cost simple and efficient solution
- Offers all the benefits of a cartridge bearing unit
- Long life, low maintenance

Combined Bearing/Seal Assembly

Halifax Fan's solution was to combine a cartridge bearing unit with a gas-tight seal. Cartridge bearing units offer many advantages such as high speed operation, low noise, low maintenance, longevity and high end thrust capability. A special assembly of an integrated end cap and seal housing gives a gas tight bearing unit capable of operating

at pressures up to 30kPa. The mounting pads and tapping ring are precision machined to aid alignment and sealing.

A wide range of applications may be addressed with this assembly and customised products can be provided for a variety of process gases. After consultation with the customer, a solution utilising the

optimum selection of gasket and end cap material is achieved. This enables Halifax Fan to address the widest possible variety of demanding applications, offering the ideal solution based upon both the standard range of fan assemblies and their wide experience of designing bespoke solutions.

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