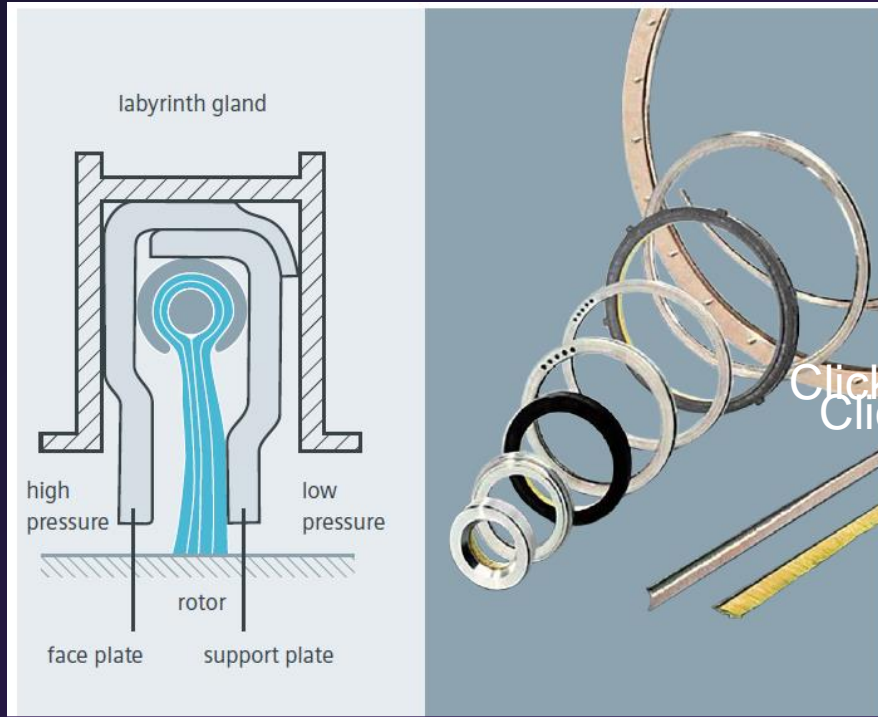


Brush Seals

(Applicable for all SST800/ SST600/ SST500/ SST400/ SST300/ SST200/ legacy fleet)



Brush design



CO₂ savings from fuel efficiency

Product Overview

Brush seals help prevent steam leakage by closing the small, permanent gap between the labyrinth gland and the rotor.



Improved Features

- According to the differential pressure up to four brush elements per balance piston are arranged in square notches of the labyrinth glands
- The gap with conventional seal points is 0.6-0.8 mm. By using the brush seals the gap between brush and rotor flange facing is reduced to 0.05 mm



Benefits

- ~50% reduction in steam leakage
- CO₂ savings result from the reduction in fuel consumption due to prevention of steam leakage.
- Increased wear resistance - Brush bristles are inclined by 45 degrees and are free from wear and regain their original radial clearance. With conventional seal-points, rubbing causes lasting clearance expansion and decline of efficiency



Scope of work & Implementation

The work should ideally be performed as part of a major overhaul when the rotor and the labyrinth gland are at the service center for inspection,

- The rotor surface must be turned smoothly in the area of the brushes
- The notches are prepared in the labyrinth gland and the corresponding number of brushes are used

