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In operation, fluid pressure $p = G \times$ acts upon the exposed surface of the seal and activates the sealing ring so that the contact pressure increases to a higher value $G p$ (Fig. 2). The sealing mechanism is called automatic because this con tact pressure $g p$ exceeds the fluid pressure to be sealed p .

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Convection: Air flow induced by the rotating parts of a seal can move fine liquid droplets outwards through a sealing gap, especially in noncontacting seals. Equally, rotating parts can induce inward air flow, which transports dust particles or liquid droplets from the environment into the space being sealed.

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TECHNICAL HANDBOOK - Fluid Sealing Association

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principles of incompressible(liquid) and compressible (gas) sealing flows are studied. The mechanism of film pressure generation between relatively moving surfaces is de- scribed. Fundamental friction and wear concepts, various seal lubrication operating regimes, and surface topography effects are also presented.

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Abstract By analyzing the principle of pressure balance in the sealing area, a more stable and faster convergence fluid-solid coupling numerical algorithm is proposed. The overall flexibility matrix of fluid film and asperities is extracted from both fluid and contact mechanics analyses.

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