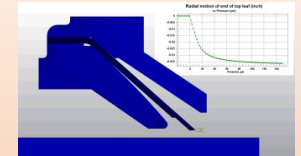
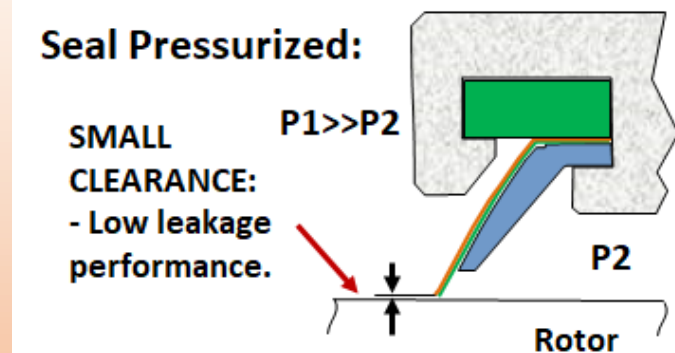
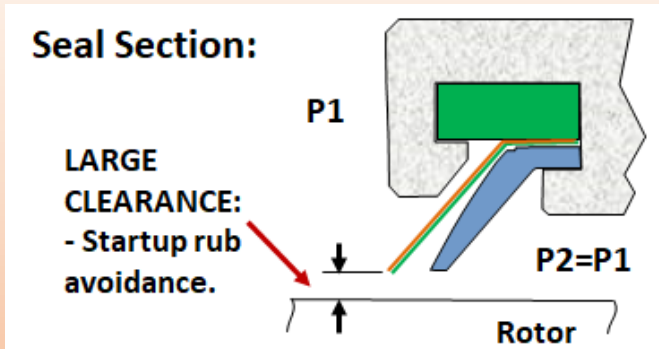
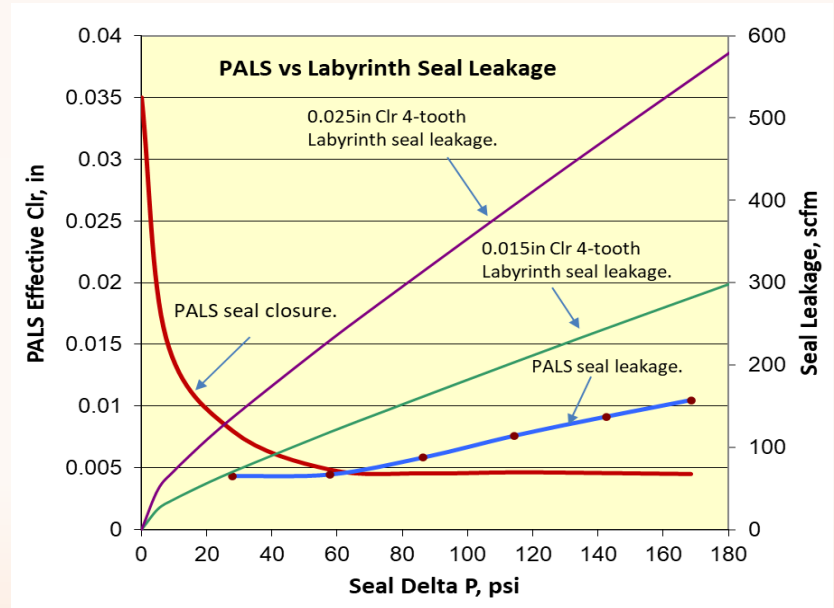
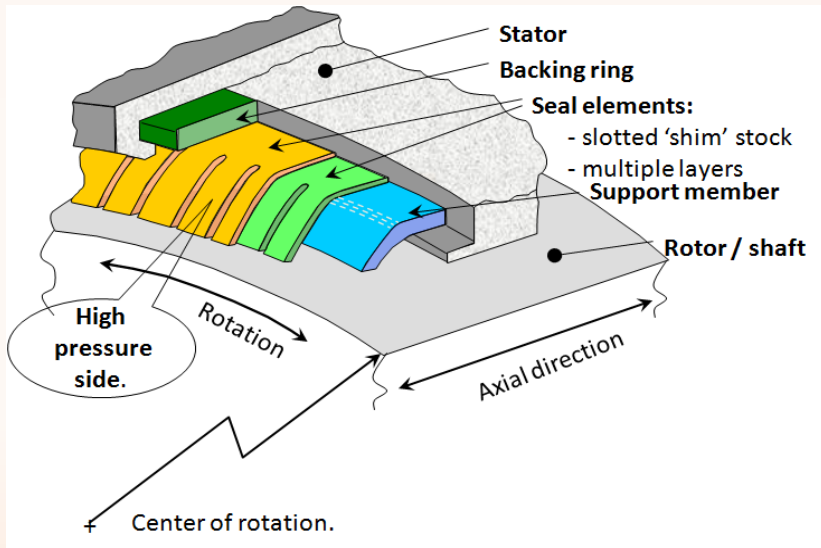


How Pressure Actuated Shaft Seals Work

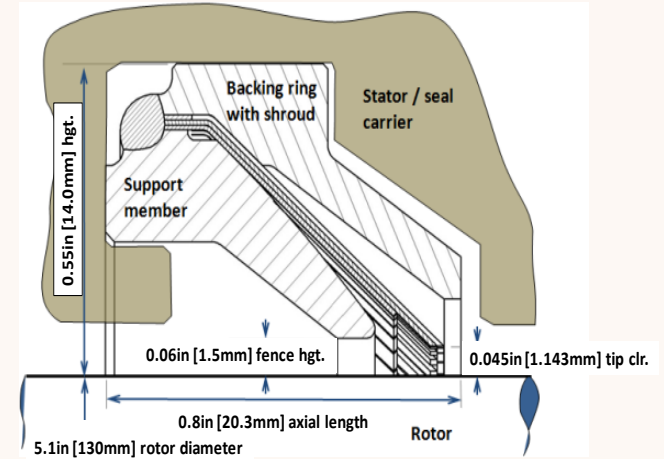
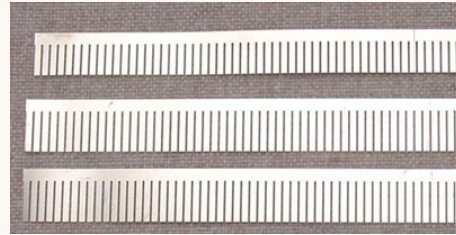
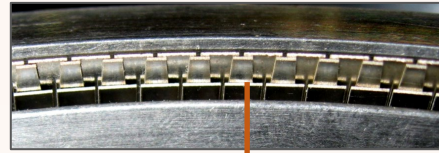


PRESSURE ACTUATION

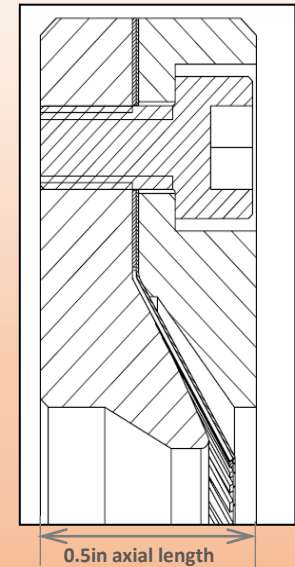
PALS Clearance Closure with Pressure => Compliant Shaft Seal Performance

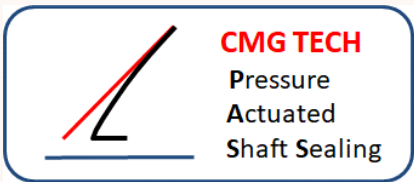
PALS Configurations for Available Seal Space -

PALS from strip stock:

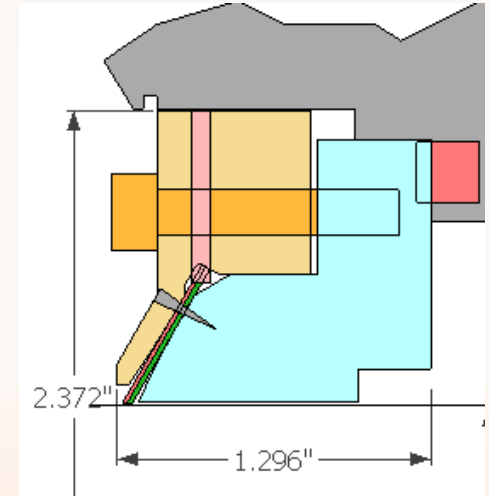
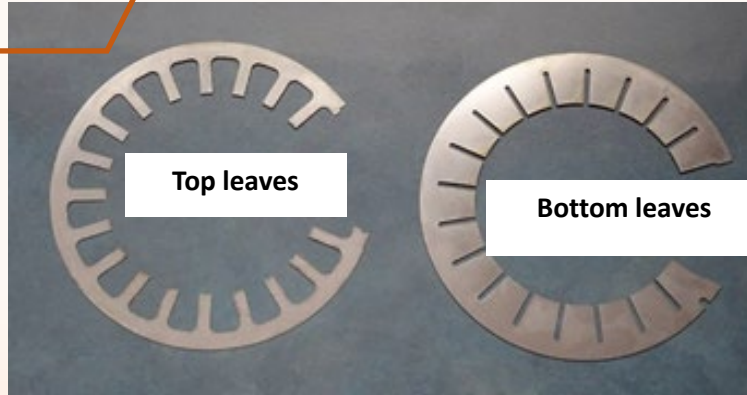
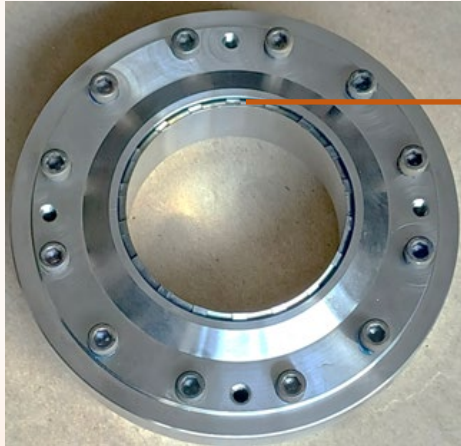


PALS from sheet stock – shorter axial length:





PALS Assembly with 'Conical' Seal Leaves: - no bending required.



All PALS Configurations provide unrestricted differential pressure capability, no reverse rotation hazard, favorable rotordynamic stability and these benefits:

Initial conformal 'wear-in' : Mitigates seal runout and mis-alignment.

Large startup & shut down clearance: Rub avoidance.

Minimum operating clearance: Performance gain.

Non-contacting operation: Long seal life.