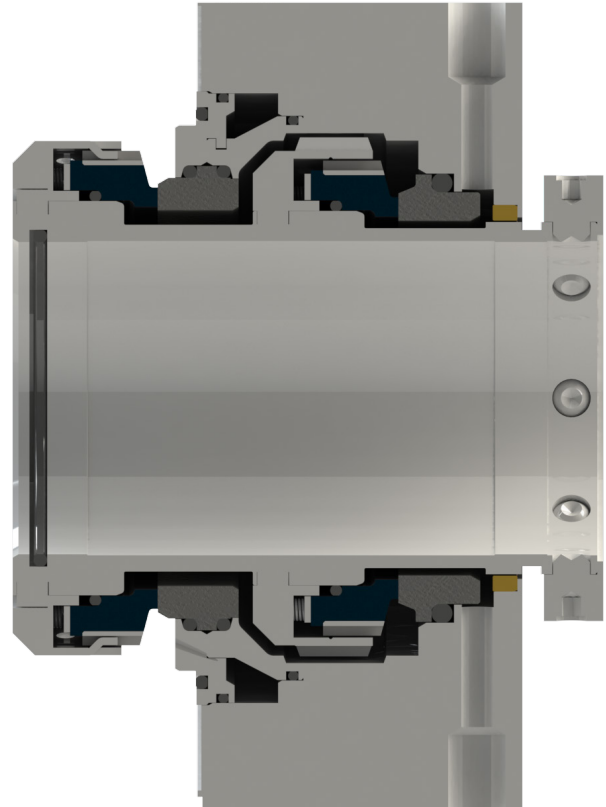# HEAVY DUTY ROTATING MULTI-SPRING TANDEM CARTRIDGE SEAL
FOR API 682 APPLICATIONS

The **Flexaseal Style 80A** is designed specifically to conform to API 682 Category 2 Applications for Midstream and Downstream Oil and Gas Applications where a Pressurized or Unpressurized Tandem Arrangement is Desired. Standard design features include:

- Oversized Monolithic Seal Faces for superior heat dissipation and durability

- Tang Drive System for reliable face torque transfer and reduced O-Ring hang up

- Heavy Duty Springs to mitigate process debris clogging and reduce spring quantity

- Cushion Mounted Primary Seat to increase reliability in harsh services

- Retained Seal Faces for pressurized or unpressurized barrier systems

- Optimized Pumping Ring for higher barrier fluid flow and better seal cooling

Flush Plans 11/52/53A/53B/54

MATERIALS OF CONSTRUCTION

Rotary Faces	Silicon Carbide
Stationary Faces	Carbon, Silicon Carbide, Tungsten Carbide
Springs	Hastelloy C276*
Metal Parts	316 Stainless Steel
O. Rings	Viton®, Ethylene Propylene, AFLAS, Perfluoroelastomer

OPERATING PARAMETERS

Max Temp	400°F
Max Pressure	450 PSIG
Max Speed	4500 FPM

* Max Temperature / pressure / speed indicate operating extremes independently and do not imply the seal will function at these extremes at the same time. Contact Flexaseal if in doubt.

HEAVY DUTY ROTATING MULTI-SPRING TANDEM CARTRIDGE SEAL
FOR API 682 APPLICATIONS

DESIGN FEATURES & BENEFITS

Tang Drive System for reliable face torque transfer and reduced O-Ring hang up

Dynamic O-Ring protected from Process fluid debris

Cushion Mounted Primary Seat to increase reliability in harsh services

Retained Seal Faces for pressurized barrier systems

Heavy Duty Springs to mitigate process debris clogging and reduce spring quantity

Optimized Pumping Ring for higher barrier fluid flow and better seal cooling

Large Retained Setting Clips for easy seal installation and removal. Setting clips are always with the seal.

Removable Drive Collar for Enhanced Repairability.

Standard API 682 Gland Connections