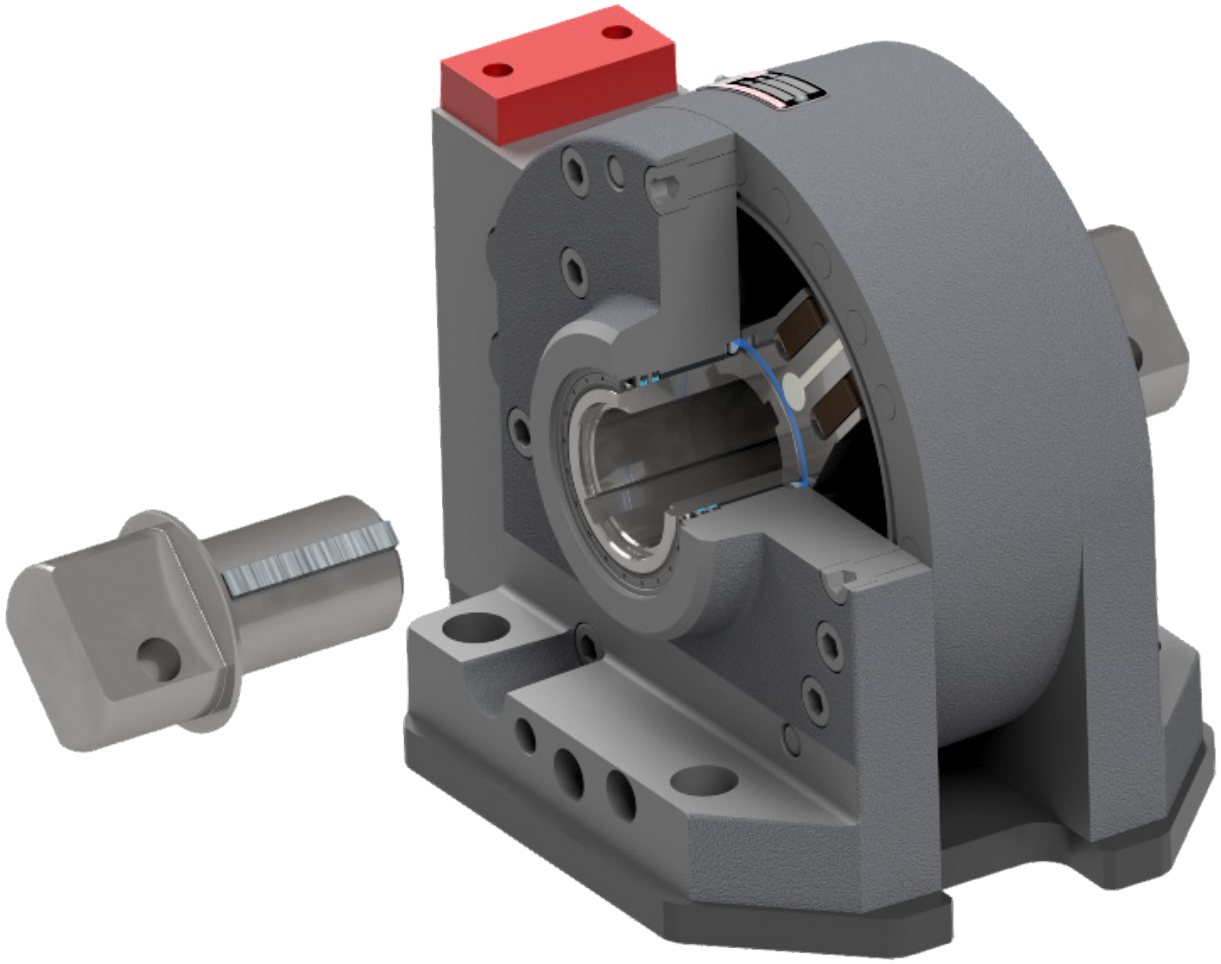
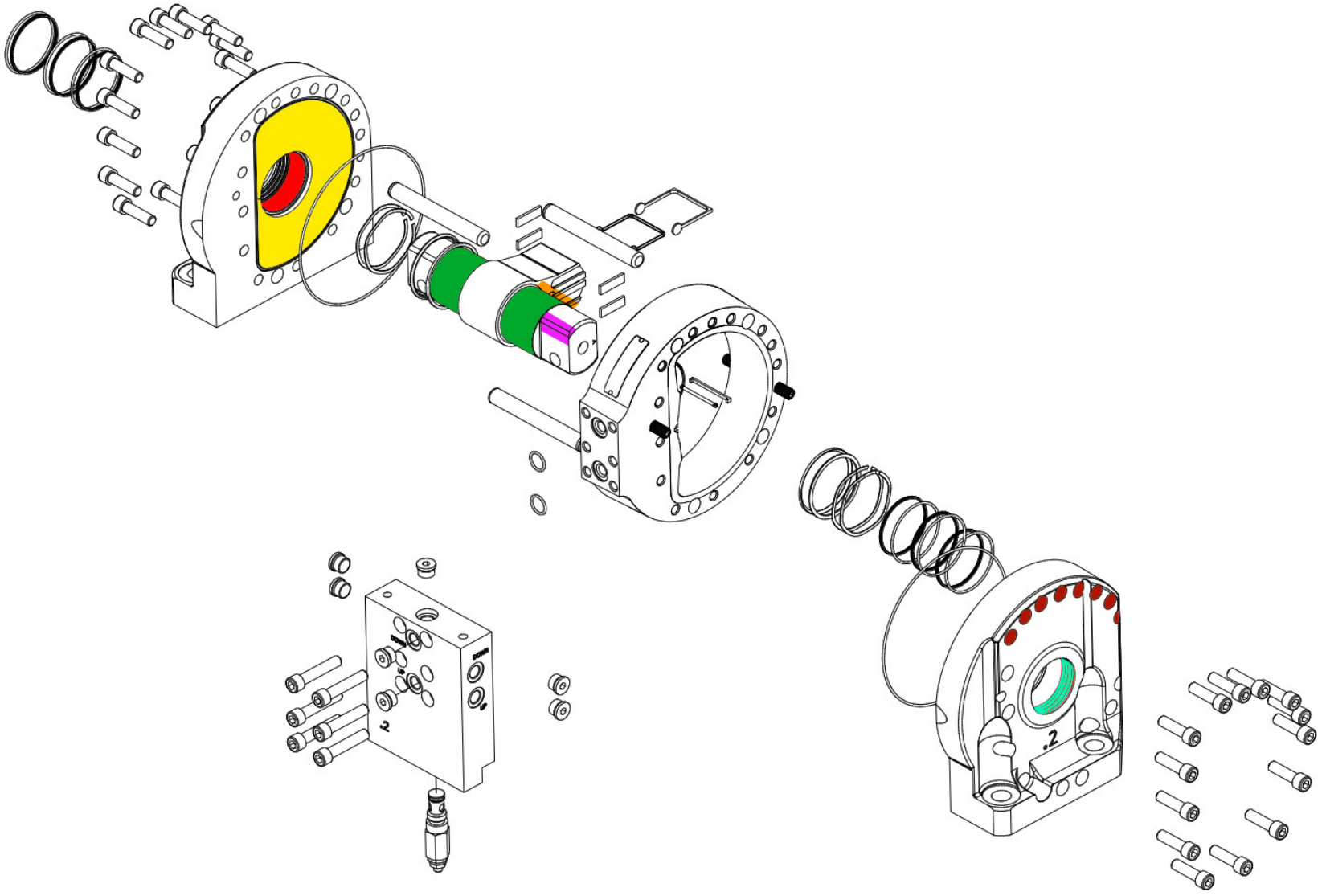


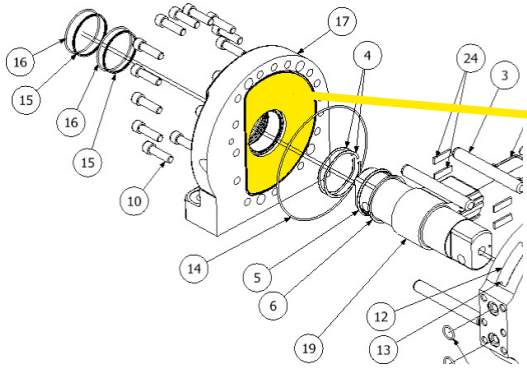
Drop in replacement for Bromma SB18/SB18.2

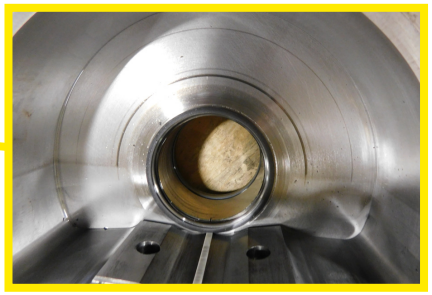
CRITICAL DAMAGE AREAS



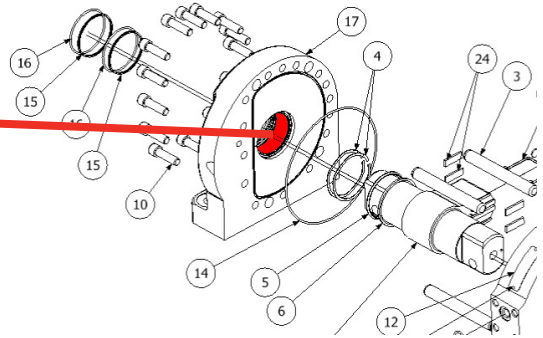
Scored metal/damage in these areas are not resolved by replacing seal kits.

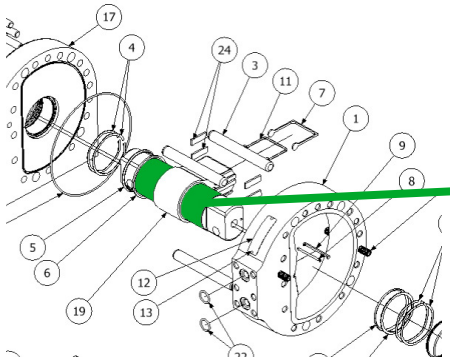
CRITICAL DAMAGE AREAS

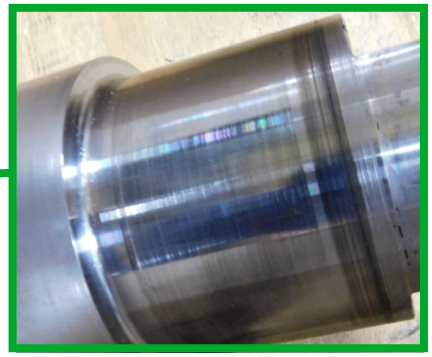






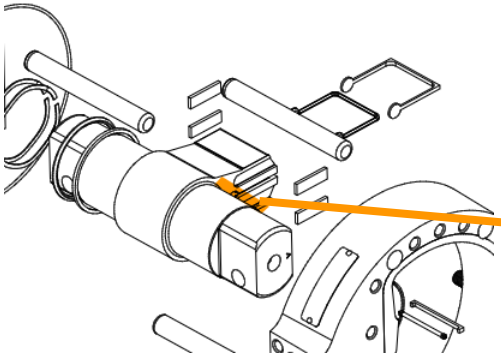


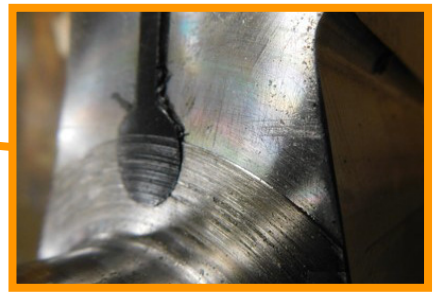




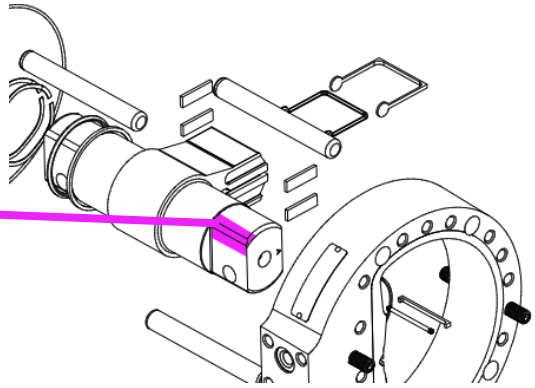
Rebuilding misses out key features of our improvements

CRITICAL DAMAGE AREAS



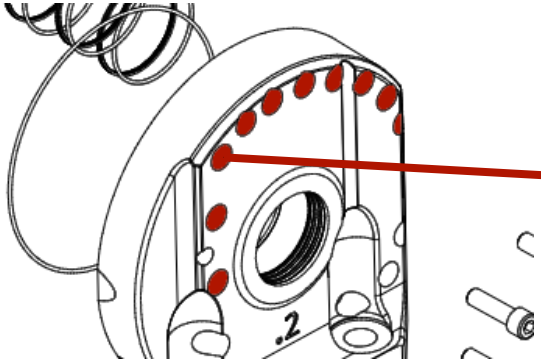


Scoring on the side of the shaft vane from axial overloading





Shaft end damages seals during installation

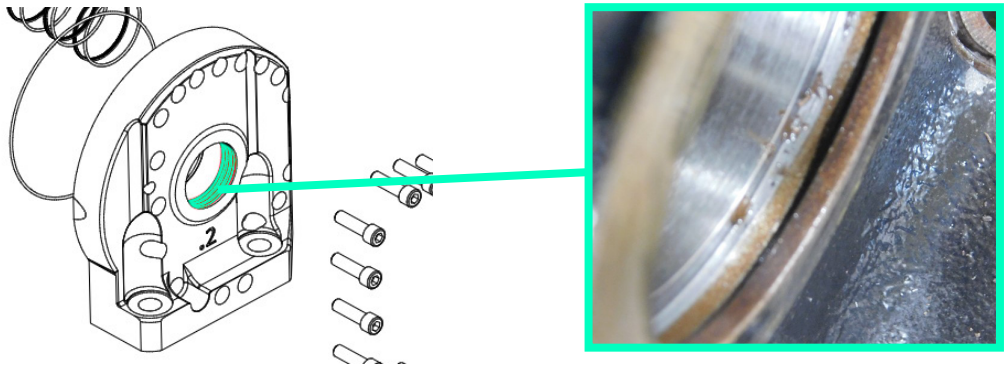




Metal smear over bolts

Rebuilding misses out key features of our improvements

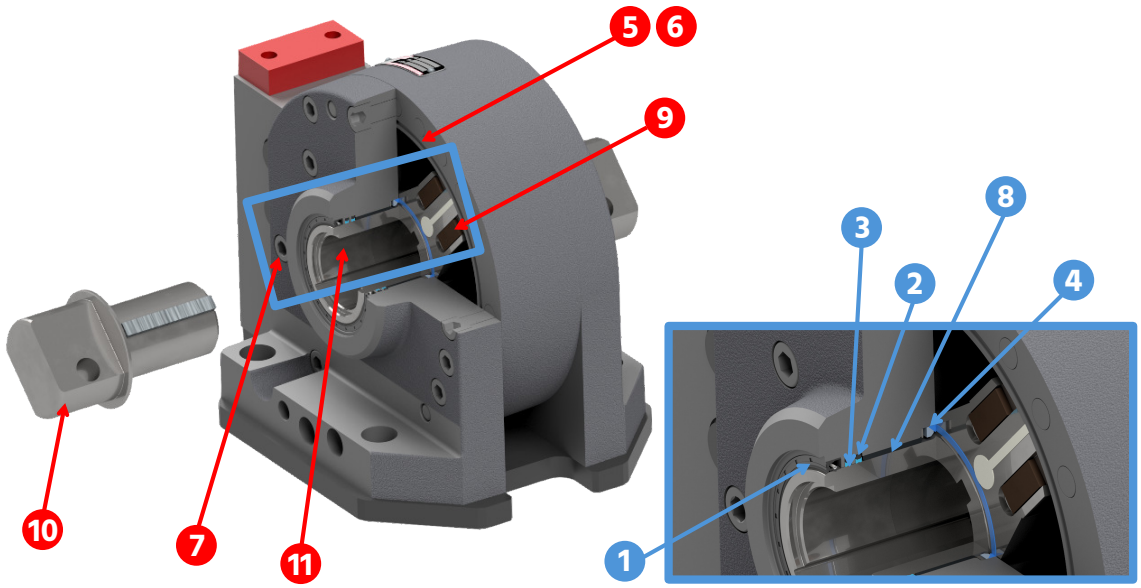
CRITICAL DAMAGE AREAS



Seal gland corrosion

Rebuilding misses out key features of our improvements

DROP IN REPLACEMENT FOR SB18/SB18.2



WE'VE IMPROVED THE SB18 AND SB18.2
HERE'S HOW WE DID IT:

MADE IN USA
Designed and
Manufactured in USA

1. **Excluder seal**
   - New additional seal for advanced corrosion and contamination ingress protection
   - Multiple compartments and grease layers
   - Spring energized eliminates compression set for constant sealing force
2. **Advanced Hydraulic Pressure Seal**
   - Longer Life due to high wear material with less frictional heat and wear.
   - Modern slipper seal design specifically for reciprocating rotation
3. **Back-up sealing protection**
   - New additional seal in middle for back-up protection to pressure seal and excluder seal
4. **Increased shoulder seal force**
   - x2 double wavy springs on shoulder seal vs 1
   - Reduces internal bypass, providing stiffer flipper arm
5. **Higher durometer head seal (90A vs 70A)**
   - Increases blow out resistance from pressure spikes
6. **Head seal in body vs head**
   - Reduces service reassembly pinching of seals
7. **Steel jack screw thread covers**
   - More robust and do not strip out like plastic

   Flush mounting bolt heads (Not shown in diagram)
   - Severe impact damage doesn't 'cave in' the hole and cover up the head of the bolt preventing disassembly

8. **Radial loading protection**
   - Journal bearing with PTFE linings pressed into heads
   - Eliminates galling and scoring of shaft and head journals due to high radial loading.
   - Extends seal life by eliminating metal contamination from galling
   - Modern design specifically for reciprocating rotation
9. **Axial loading protection**
   - Addition of (4) bearing pads on shaft
   - Eliminates galling and scoring of shaft and head surfaces due to high axial loading.
   - Extends seal life by eliminating metal contamination from galling
10. **Removable shaft extensions**
    - Prevents scoring marks/lines into pressure seal surfaces
    - Zinc corrosion on shaft extensions reduces corrosion
    - Eliminates potential damage from raised dings and burrs to seals and bearings during disassembly
    - Accepts both round and flat flipper arms
11. **Hollow Shaft**
    - Provides easy adaption to alternative flipper arm attachments
12. **Replaceable shaft extensions**
    - Damaged shaft extensions can be easily removed for servicing the actuator which avoids the potential of catastrophic damage to the actuator seal glands and journal bearing.

Part number: 01280999