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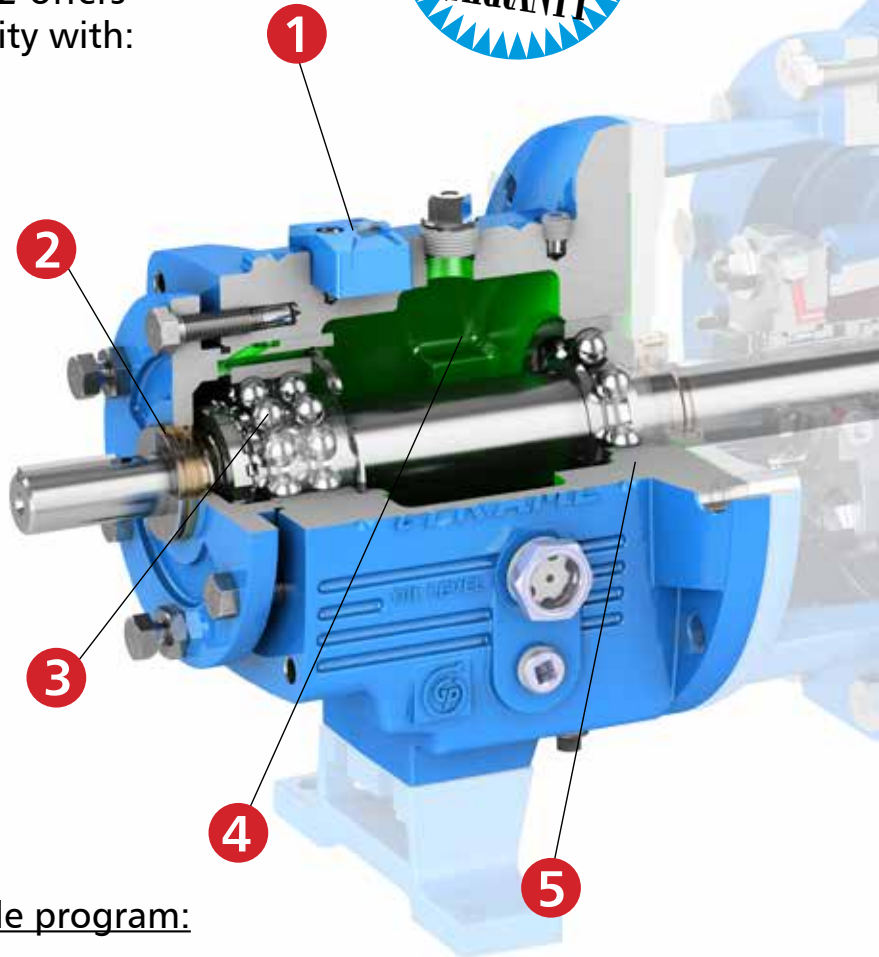
Goulds Model 3196 Power End Upgrades

A Revolution in Pump Performance and Reliability

With the introduction of the new *i-FRAME*, you can stop rebuilding your old power ends and upgrade to the power end that is setting a new standard for ANSI pumps. The *i-FRAME* offers you the opportunity to improve reliability with:



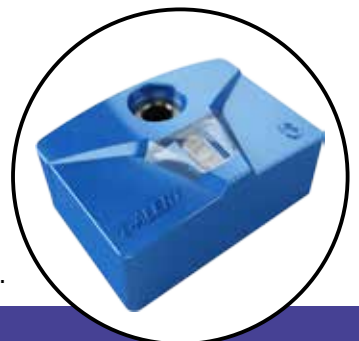
- 1 Patented (U.S. Patent 8,154,417) i-ALERT 2 Equipment Health Monitor displays flashing red LEDs when vibration or temperature parameters are exceeded
- 2 Inpro VBXX-D SS hybrid labyrinth oil seals for sealing in harsh environments
- 3 Premium severe-duty thrust bearings for longer service life
- 4 Optimized oil sump design provides better heat transfer for reduced oil temperature and longer bearing life
- 5 New, factory built, severe duty power ends



Additional benefits of a power end upgrade program:

- OEM tolerances guaranteed the first time and every time
- Reduction in repair costs – it is less expensive to replace than to repair power ends
- Extended MTBF with new power ends
- Reduced parts inventory – 20+ parts versus 1 complete power end
- Short cycle time for pump repairs – 36 steps to repair, 1 step to replace
- Eliminates lost production due to unplanned downtime
- Condition monitoring at no additional cost

Learn more about the i-ALERT 2 Equipment Health Monitor (www.i-alert.com) and how it continuously monitor the health of your pumps.



36 Simple Steps to Repair your Goulds Power End



DISASSEMBLY:

1. Remove clamp screws & back off jam nuts
2. Remove shaft assembly
3. Remove jack screws
4. Remove bearing housing O-ring
5. Remove outboard bearing retaining snap ring
6. Remove bearing housing
7. Remove outboard labyrinth seal
8. Remove bearing locknut & lockwasher
9. Remove inboard bearing
10. Remove outboard bearing

INSPECTION:

11. Check bearings fits on shaft
12. Check shaft for straightness
13. Check shaft surface for any grooves or pitting
14. Check bearing frame for any cracks, rust or debris
15. Check inboard bearing bore
16. Inspect bearing housing for any cracks or pitting
17. Check bore of bearing housing
18. Check O-Rings for cuts or cracks
19. Pull or order any replacement parts needed

REASSEMBLY:

20. Install outboard bearing on shaft
21. Place lockwasher and locknut on shaft
22. Place bearing retaining ring on shaft
23. Install inboard bearing on shaft
24. Install new O-ring
25. Coat outside of bearing and bearing housing bore with oil
26. Install bearing housing onto shaft/bearing assembly
27. Insert retaining ring into groove of housing bore
28. Install outboard labyrinth oil seal
29. Coat outside of bearing housing with oil
30. Install shaft assembly into frame
31. Install clamping bolts into bearing housing
32. Install jacking bolt and locking nuts into housing
33. Check for shaft end play
34. Check for shaft run out
35. Check for frame face run out
36. Hope you didn't forget a step

OR 2 Steps

The new Goulds Premier Power End Replacement Program will contain fewer steps, be much simpler and more reliable.

Step 1:
Replace Power End

Step 2:
There is no Step 2. You're done!



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