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Procedure for Disassembly and Reassembly of a De Dietrich Process Systems OptiSeal on a Pfaudler 7 RW Drive

Definition of Potential Hazards

The following definitions are provided to explain the degrees of hazard that De Dietrich Process Systems Inc. recognizes to be associated with the installation and operation of De Dietrich Process System products. These terms are used throughout the De Dietrich Process Systems Instruction Bulletins to enable the user to identify the potential degree of hazard.

DANGER: **IDENTIFIES HAZARDS WHICH COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH**

WARNING: **Identifies hazards which could result in personal injury**

CAUTION: *Identifies hazards which could result in damage to equipment or property*

NOTE: Alerts users to pertinent facts and conditions

1.0 Disassembly of Existing Pfaudler Seal

1.1 Follow the Instructions from Pfaudler Bulletin IM22-401-6, Section 5.2.1, Steps 1 through 41.

2.0 Reassembly of Drive with De Dietrich Process Systems OptiSeal

2.1 Follow the Instructions from Pfaudler Bulletin IM22-401-6, Section 5.2.1, Steps 1 through 2, and 4.
2.2 Referring to DDPS Drawing D10007RW, install Gasket (1) on top of the Maintenance Clamp.
2.3 Follow the Pfaudler Instructions Bulletin IM22-401-6, Section 5.2.1, Steps 7 through 28.
2.4 Lower OptiSeal down carefully so that Balance Piston (5) rests on Gasket (1).
2.5 Lift Seal Housing Flange (29) and install Split Ring (30) into groove on the Seal Housing (31).
2.6 Lower Flange (29) on top of Split Ring (30).
2.7 Install Bolts and Washers (26). Tighten evenly.
2.8 Install expansion clamp according to instructions from Pfaudler Bulletin IM221-401-6, Section 5.2.1 Steps 42 through 47.
2.9 Tighten Bolts (25) to attach Split Locking Collar (22) to the Agitator Shaft (23).
2.10 Remove ½" NPT Plug (21) and connect Nitrogen supply line. Pressurize Seal Housing (31) to 10 to 15 PSI above maximum pressure expected in the vessel.

3.0 Disassembly of Drive with De Dietrich Process Systems OptiSeal

3.1 Follow Instructions from Pfaudler Bulletin IM22-401-6, Section 5.2.1 Steps 1 through 3.
3.2 Disconnect Nitrogen Supply and install ½" NPT plug (21).
3.3 Follow Instructions from Pfaudler Bulletin IM22-401-6, Section 5.2.1 Step 6.
3.4 Remove Bolts (26).
3.5 Raise Flange (29).
3.6 Remove Split Rings (30).
3.7 Let Flange (29) rest on Base Plate (28).
3.8 Loosen Bolts (25) to Split Locking Collar (22).
3.9 Make sure Split Locking Collar (22) is loose. A screw driver may have to be used to pry the two halves apart.
3.10 Follow Instructions from Pfaudler Bulletin IM22-401-6, Section 5.2.1 Steps 10 through 13 to lift the Seal and Seal Housing (31) up to expose the Maintenance Groove on the Agitator Shaft (33).
3.11 Follow Instructions from Pfaudler Bulletin IM22-401-6, Section 5.2.1 Steps 16 through 28 to install Service Clamp and remove Shaft Coupling and Upper Shaft and Expansion Clamp.

3.12 Follow Instructions from Pfaudler Bulletin IM22-401-6 Section 5.2.1 Steps 29 through 41 to remove Seal and Seal Housing (31).

3.13 Slide Faun Gasket (1) up and over the Agitator Shaft (23). Examine and replace Gasket (1) if necessary.