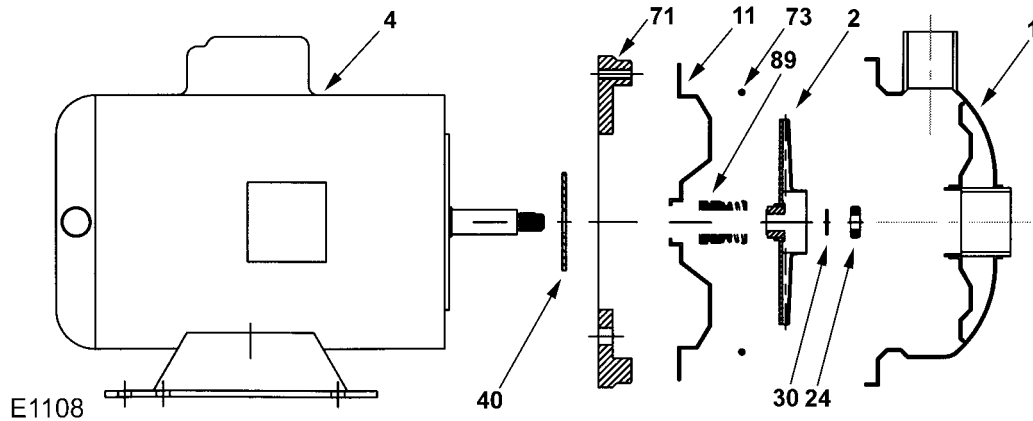


4.2 - PUMP MAINTENANCE MODELS: AC, AS, WC, WS

4.2.1 - EXPLODED VIEW DRAWING

REF NO.	QTY	3 HP	1 HP	1.5 HP	5 HP	¾ HP	DESCRIPTION	PART #
1	1	✓	✓	✓		✓	CASE 1.25 x 1 NPT	018266
	1						CASE 1.25 X 1 NPT	018268
	1				✓		CASE 1.5 x 1.25 NPT	018267
2	1					✓	IMPELLER 4.88", STAINLESS	018275
	1		✓	✓			IMPELLER 5.25", STAINLESS	018276
	1	✓					IMPELLER 6.3", STAINLESS	018277
	1				✓		IMPELLER 6.3", STAINLESS	018342
4	1	✓	✓	✓	✓	✓	MOTOR 56J	CONSULT FACTORY
11	1	✓	✓	✓	✓	✓	COVER, STAINLESS	018269
24*	1	✓	✓	✓	✓	✓	NUT	018270
30*	1	✓	✓	✓	✓	✓	D-WASHER	018371
40*	1	✓	✓	✓	✓	✓	FLINGER	018272
71	1	✓	✓	✓	✓	✓	DISC IRON	018273
73*	1	✓	✓	✓	✓	✓	GASKET, CASE	018274
89*	1	✓	✓	✓	✓	✓	SEAL, 5/8"	IN REPAIR KIT

* - DENOTES COMPONENTS INCLUDED IN REPAIR KIT 018246.



4.2.2 - SEAL REPLACEMENT / MAINTENANCE

WARNING: MAKE CERTAIN THAT THE SYSTEM IS DISCONNECTED FROM THE POWER SOURCE IN COMPLIANCE WITH ALL LOCAL AND NATIONAL CODES BEFORE ATTEMPTING TO SERVICE OR REMOVE ANY COMPONENTS. NEVER RUN THE PUMP WHEN DRY.

MAINTENANCE:

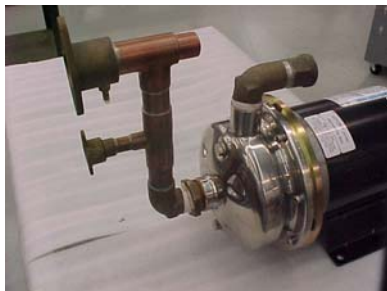
1. Inspection - Pump should be periodically checked for proper operation. If the system has changed or if the pump is operating noisily or erratically, then the pump should be removed and examined. It should be repaired and parts replaced as necessary.
2. Cleaning - Remove oil, dust, dirt, water, chemicals from exterior of pump and motor. Blow out interior of open motors with clean compressed air at low pressure. Regularly drain moisture from TEFC motors.
3. Draining - If the pump is located in an area subject to freezing temperatures, the pump must be drained when not in operation or add sufficient antifreeze.

4.2.2 Pump Seal Replacement

1. Turn off the electric power and the water supply to the unit
2. Drain the MOKON system. Flush if necessary.



Necessary Tools:
3/8" Drive Ratchet
Pry bars (2)
Flat Blade screwdriver
6" socket extension 3/8"
Gloves
1/4" Hex Allen wrench/socket
1/2" Socket



3. Remove Pump/Motor from Cabinet

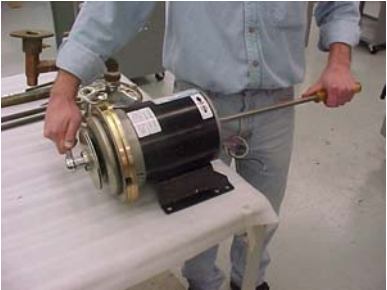


4. Remove Casing Screws and Remove Case. Inspect O-ring for wear or damage.



5. Remove the Cap at the lead end of the motor. A screwdriver slot will be exposed. Use a screwdriver to stop the shaft from turning.

CAUTION: DO NOT INSERT SCREWDRIVER BETWEEN IMPELLER VANES TO PREVENT ROTATION. THIS CAN DAMAGE THE IMPELLER.



6. Remove the impeller lock nut and washers by turning counter clockwise when looking at the front of the pump.



7. Remove the impeller by turning counter clockwise. Protect the hand by wearing a glove.

CAUTION: FAILURE TO REMOVE THE IMPELLER IN A COUNTERCLOCKWISE DIRECTION MAY DAMAGE THE THREADING ON THE IMPELLER, THE SHAFT OR BOTH.



8. Remove the spring to the mechanical seal assembly.



9. With two pry bars 180° apart and inserted between the seal housing and the motor plate adapter and carefully separate the two parts. The mechanical seal assembly will come off of the shaft inside the seal housing. It is not necessary to remove the cast iron disc from the motor.



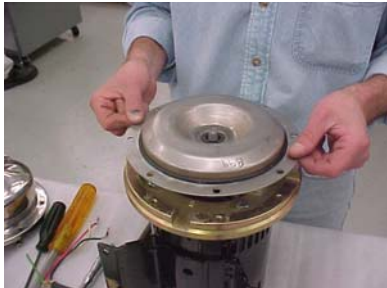
10. Using a dowel, push the mechanical seal assembly out of the seal housing from the motor side.

CAUTION: The mechanical seal is a precision product and should be handled accordingly. Use care when handling lapped running surfaces of the mechanical seal to ensure they remain clean and are free of chips or scratches.

Clean gasket and flange faces, seal seat cavity and shaft, in particular, shaft shoulder fitting against impeller.



11. Lubricate the seal seat cavity of the cover and the rubber cup or O-ring of stationary seal seat with the lubricating fluid that comes with the mechanical seal or repair kit. Press the stationary seat in seal seat cavity in the cover squarely and evenly using an arbor press (if possible) and the cardboard disc supplied with the seal. Be certain that the lapped face (shiny side) is facing you.

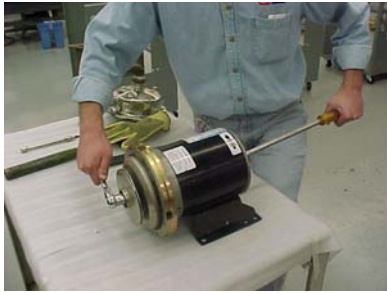


12. Place the seal assembly housing (with the seal assembly inserted) onto the shaft and replace the spring. Lubricating fluid can be applied to the motor shaft and the rubber bellows of the seal used to facilitate assembly. **Do Not Contaminate the mechanical face seals with lubricant. Do not use Petroleum based lubricants.**





- 13.** Thread the impeller onto the shaft by turning clockwise. Protect the hand with a glove. Prevent shaft rotation by using a screwdriver on the shaft end screwdriver slot.



- 14.** Replace the impeller lock nut and washer by turning clockwise. Prevent shaft rotation by using a screwdriver on the shaft end screwdriver slot.



- 15.** Replace the casing and casing screws and tighten finger tight. Finish tightening the cap screws alternately and evenly to approximately 6 ft. lbs. torque. Note: It is imperative that screws be tightened alternately and evenly, as this action centers the cover in the casing, assuring proper alignment. Binding of the impeller in the case and adaptor may occur if the cap screws are not tightened as listed above.



- 16.** Check for free rotation then replace the cap at the rear of motor. Reinstall pump/motor into unit.

