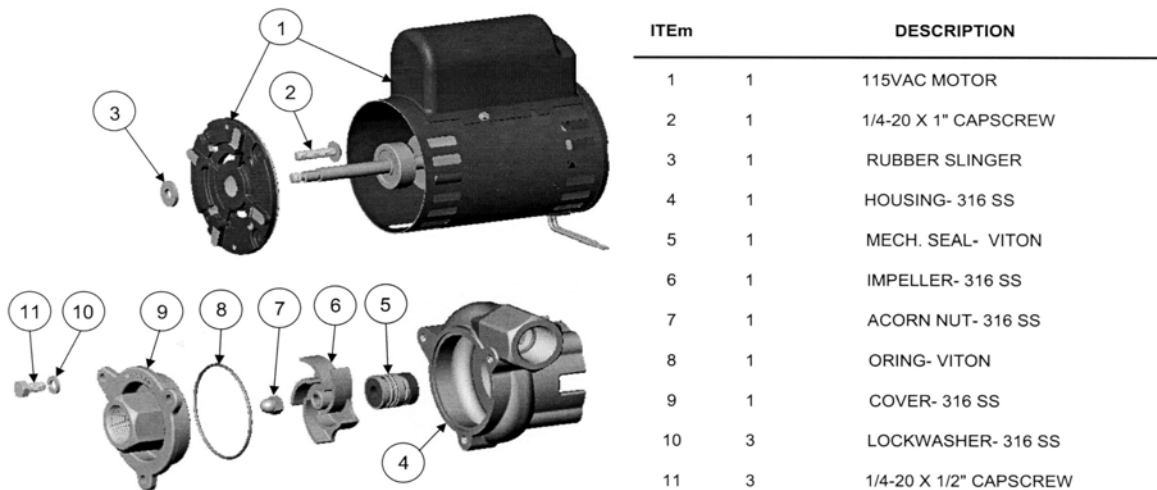


## 4.6- SUPPLY PUMP FOR SINGLE ZONE H6 UNITS, 24 KW OR LESS



### 4.6 – SUPPLY PUMP REPAIR AND MAINTENANCE

The pump has a viton seal that may last several thousand hours based upon the application. If the motor is replaced, the mechanical shaft seal should also be replaced. A seal that leaks will show leakage through the slot between the pump housing and the motor. Extreme leakage may damage the motor bearings and contaminate the inside of the motor.

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#### **4.6.1 – SUPPLY PUMP DISASSEMBLY**

1. Remove three cover screws and remove the cover, discarding the o-ring.
2. Secure the impeller and remove the impeller locknut. Pull the impeller straight out off the motor shaft.
3. Remove the seal-rotating porting by pulling the seal off by hand.
4. Remove the two capscrews that hold the pump housing onto the motor. Remove the pump housing and push the seal seat out using a screwdriver.

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#### **4.6.2 – SUPPLY PUMP INSPECTION**

Always replace the mechanical seal. Check the seal for dry run wear or damage. Check the motor shaft for wear at the secondary sealing surface from the mechanical seal. If worn, replace the motor. Check the motor bearings by rotating the motor by hand. If the shaft rotation is not smooth or has radial/axial endplay, replace the motor. Check the impeller running surface between the impeller and cover. If the surfaces are worn or irregular, replace each item.

Clean the parts that are to be reused using a solvent or mild cleaner. Remove abrasive material.

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#### **4.6.3 – SUPPLY PUMP REASSEMBLY**

1. Press the new seal seat into the pump housing. A light lubricant may be used to aid the assembly. Install the pump housing onto the motor and fasten the screws through the motor.
2. Install the rotating portion of the mechanical seal by sliding the seal over the motor shaft. Do not use any lubricant.
3. Place the impeller onto the shaft over the “D” drive against the shoulder and tighten the impeller lock nut until the impeller is securely shouldered on the motor shaft. Thread locking grade Loctite should be used to secure the nut.
4. Stretch the o-ring over the cover pilot. Install the cover onto the housing and fasten the capscrews and lockwashers.

Check the pump for internal interference by rotating the impeller. The pump should rotate freely with only seal friction.

