



# CENTRIFUGAL PUMPS

## USED ON J SERIES CONDENSATE AND BOILER FEED PUMPS

### MAXIMUM CAPACITY, MINIMUM MOTOR LOAD FOR LONG LIFE AND SUPERIOR EFFICIENCY

*Sterlco® Centrifugal Pumps are designed so the motor shaft will not be exposed to water. Provisions for seal flush or vent are provided. The pumps are close-coupled to a 3450 RPM motor (open drip-proof, totally enclosed, or explosion-proof).*

### FEATURES

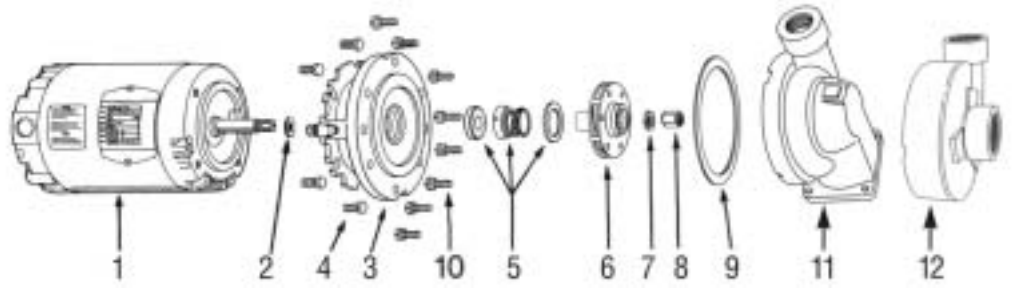
- "Sterl-Seal" ceramic pump seal
- Impeller is brass for long life. Efficient design provides maximum capacity, minimum motor load
- Flat perforated brass strainer in pump inlet prevents clogging (vertical application only)
- 1/2 thru 3 HP
- 1 1/2" NPT Discharge
- Stainless steel motor shaft
- Capacities to 75 GPM
- Discharge capacities to 115 ft.
- Motor, bracket and impeller assembly can be removed for service without disturbing discharge piping

### SAMPLE SPECIFICATION

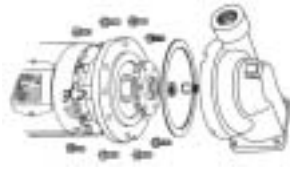
*A Sterlco® (J Series) centrifugal pump shall be furnished (and installed as shown on the plan). It will have a capacity of \_\_\_\_\_GPM @ \_\_\_\_\_feet total head pressure, without overloading the motor. The pump shall be designed so that the motor shaft will not be exposed to water. Provisions for a seal flush or vent shall be provided. The pump shall be close-coupled to a 3450 RPM, (open drip proof, totally enclosed or explosion-proof) motor of \_\_\_\_\_HP, \_\_\_\_\_phase, \_\_\_\_\_cycle and \_\_\_\_\_voltage.*



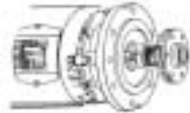
- |                 |                        |                  |                             |
|-----------------|------------------------|------------------|-----------------------------|
| 1 Motor         | 4 Motor Screws (4)     | 7 Lock Washer    | 10 Pump Screws (8)          |
| 2 Water Slinger | 5 Rotary Seal Assembly | 8 Impeller Nut   | 11 Vertical Inlet Casting   |
| 3 Bracket       | 6 Impeller             | 9 Housing Gasket | 12 Horizontal Inlet Casting |



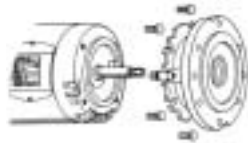
### REMOVAL OF OLD SEAL ASSEMBLY



**A)** Remove 8 pump screws and lift out pump and motor, remove drip cover. Insert large screwdriver into slot at end of motor shaft; hold shaft steady and remove impeller nut and washer from nose of impeller by turning counter clockwise.



**B)** While still holding motor shaft steady with screwdriver, use 1" socket to remove impeller by turning counterclockwise.



**C)** Remove the 4 motor screws and separate the bracket from the motor

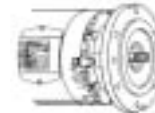


**D)** Remove old seal parts from impeller hub and bracket. Be sure water slinger is in place. Clean the recess in the bracket so that the new seat will fit perfectly and make a watertight joint. If bracket is badly eroded at recess, through severe use, casting should be replaced. Clean all gasket surfaces. Clean impeller hub thoroughly; remove loose particles of dirt, etc. Use fine emery cloth if necessary. Check prime tube or seal flush line and clean as required.

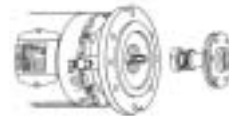
### INSTALLATION OF NEW SEAL ASSEMBLY



**E)** Coat outside edge of new seat with seal lubricant and slip it into the bracket. Press into bracket with thumbs or wooden dowel. Handle seat carefully so seating surfaces are not scratched or chipped...be sure it is squarely seated.



**F)** Remount bracket on motor



**G)** Lubricate impeller hub with seal lubricant. Slip new bellows and spring onto impeller hub. Be sure bellows slide freely on impeller hub.



**H)** Thread impeller on motor shaft extension and secure with washer and impeller nut. Hold shaft with screwdriver slot while tightening.



**I)** Replace motor assembly onto volute; using new housing gasket. Secure with pump screws. Be certain gasket is seated properly.



5200 W. Clinton Avenue  
 Milwaukee, Wisconsin 53223  
 Tel. 414.354.0970 Toll Free 888.777.4085 Fax 414.354.6421  
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