

G SERIES

Centrifugal Pumps for G Series
Condensate & Boiler Feed Units



Technical Specifications

The Sterlco® G Series 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, washdown duty, or explosion-proof).

Features

Standard Features

- "Sterl-Seal" ceramic pump seal (250°F)
- Impeller is brass for long life. Efficient design provides maximum capacity, minimum motor load
- Heavy-duty cast iron pump housing and bracket assure rigidity and long life
- Flat perforated brass strainer in pump inlet prevents clogging (vertical application only)
- 1/3, 1/2 and 3/4 HP
- 3/4" NPT Discharge
- Stainless steel motor shaft
- Capacities to 30 GPM
- Discharge capacities to 46 FT.
- Motor, bracket and impeller assembly can be removed for service without disturbing discharge piping
- Available motor voltages: 115-230V/1, 230-460V/3, 208V/1, 208V/3 & 575V/3
- Available optional Tefcoated pump castings

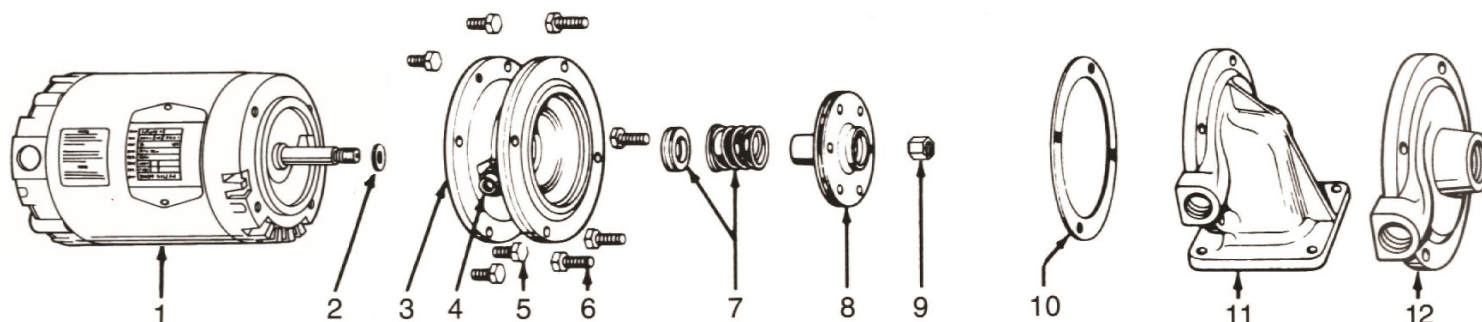
Sample Specifications

A Sterlco® (G 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 3450 RPM, (open drip-proof, totally enclosed, washdown duty or explosion-proof) motor of _____HP, _____phase, _____cycle and _____volt. The pump shall allow the motor and impeller to be removed without disturbing the piping connections.

Product Diagrams

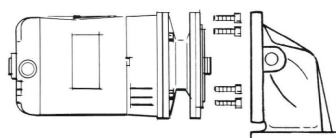


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|------------------|---------------------|-------------------------|----------------------------|
| 1. Motor | 4. Tube fitting | 7. Rotary Seal Assembly | 10. Housing Gasket |
| 2. Water Slinger | 5. Motor Screws (4) | 8. Impeller | 11. Pump Housing |
| 3. Motor Bracket | 6. Pump screws (4) | 9. Impeller Nut | 12. Threaded Inlet Casting |

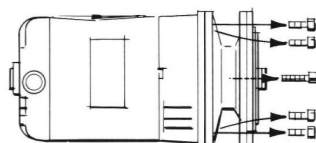
Removal

Removal of old Seal Assembly

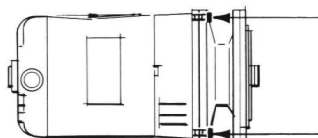
A) Remove pump housing from motor bracket and impeller assembly by removing pump screws.



B) Remove impeller and screw and motor screws. (Note: opposite end of motor shaft is fitted with screwdriver slot to hold shaft securely while impeller screw is being removed).

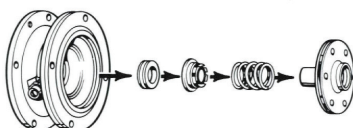


C) Insert two of the pump screws into the two threaded holes in the bracket. Tighten them slowly and evenly to force the impeller and bracket off the shaft. Do not pry the impeller or bracket!



D) Remove old seal parts from impeller hub and bracket. Be sure water slinger is in place.

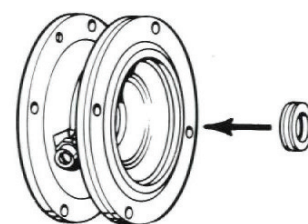
E) Clean impeller hub thoroughly...remove all loose particles of dirt, grease, etc. Also clean the recess in the bracket so the new seat will fit perfectly. Remove all particles and dirt on gasket surfaces of the two castings.



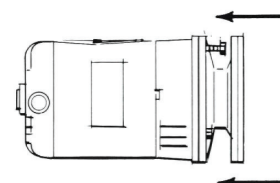
Installation

Installation of new Seal Assembly

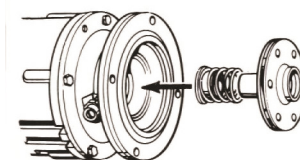
F) Coat outside edge of new seat with seal lubricant and slip it into the bracket. Press into bracket with thumbs or wooden dowel. Handle seat carefully so seating surfaces are not scratched or chipped...be sure it is squarely seated.



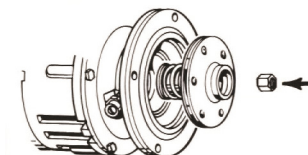
G) Remount bracket on motor



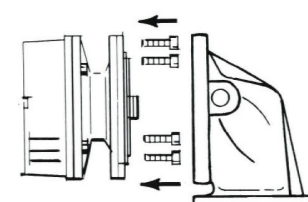
H) Lubricate impeller hub with seal lubricant. Slip new bellows and spring onto impeller hub. Be sure bellows slides freely on impeller hub.

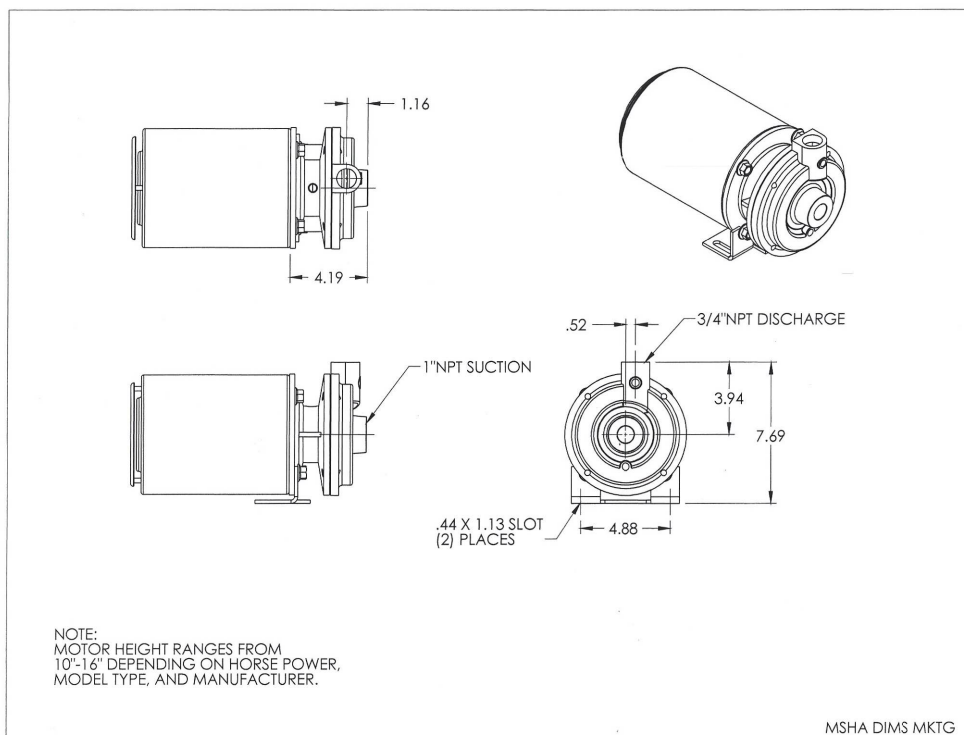
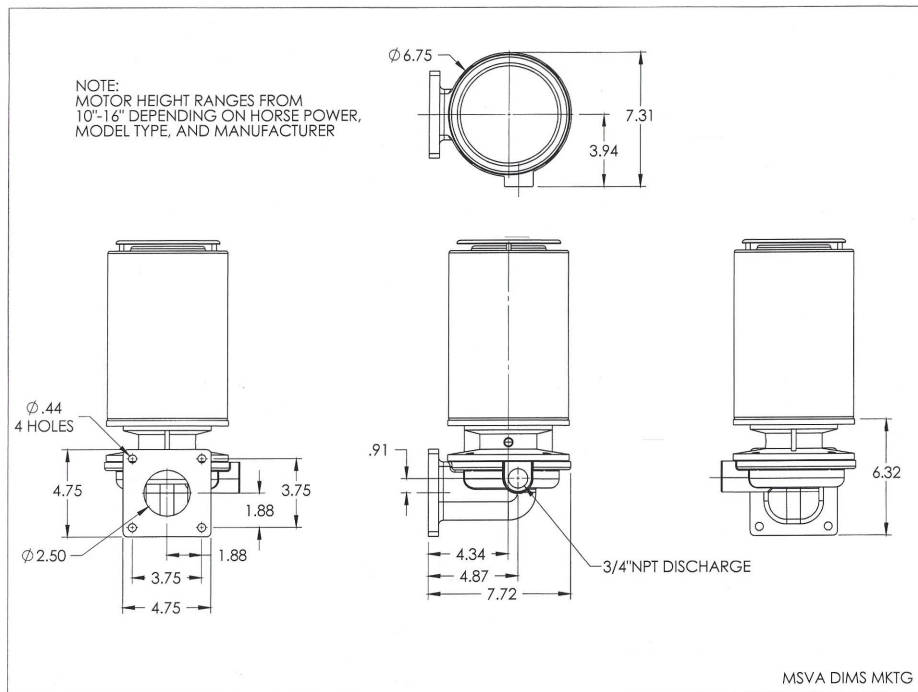


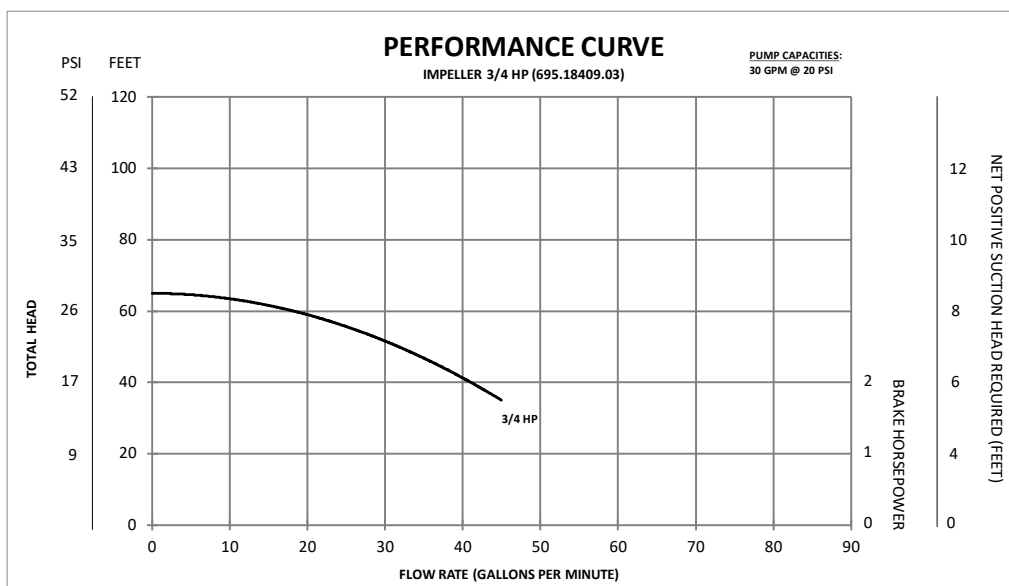
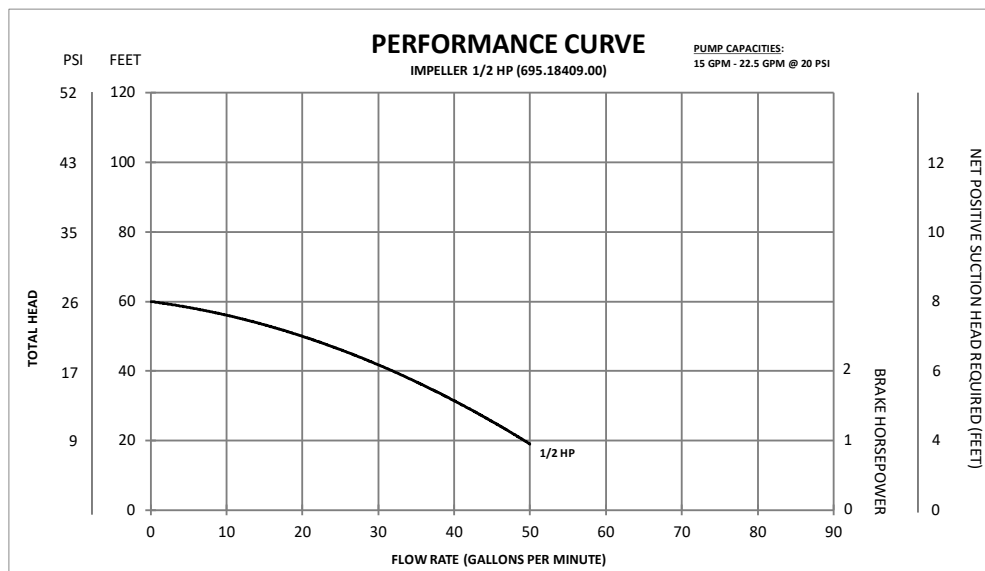
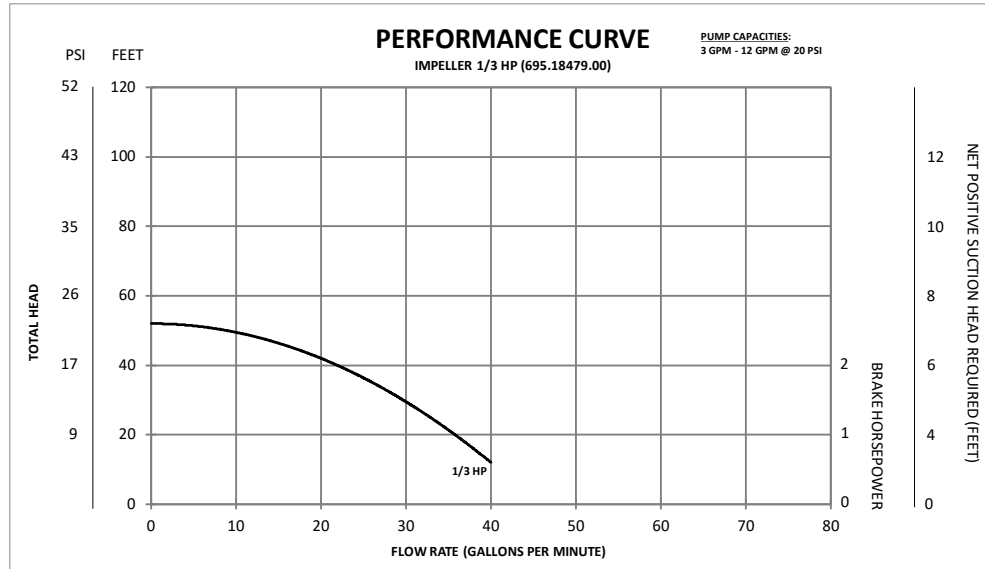
I) Replace impeller on motor shaft and secure with impeller nut. Hold shaft with screwdriver slot while tightening nut.



J) Replace pump housing onto bracket, using a new housing gasket. Secure with pump screws. Be certain gasket is seated properly.







MSVA

MSVA	MODEL	IMPELLER	DIAMETER	HP	GPM	PSI	MECHANICAL SEAL KIT
605.00003.XX	4122	695.18479.00	4.015"	1/3 HP	3	20	692.98444.00
	4124			1/3 HP	6	20	692.98444.00
	4126			1/3 HP	9	20	692.98444.00
	4128			1/3 HP	12	20	692.98444.00
605.00005.XX	41210	695.18409.00	4.09"	1/2 HP	15	20	692.98444.00
	41215			1/2 HP	22.5	20	692.98444.00
605.00111.XX	41220	695.18409.03	4.09"	3/4 HP	30	20	692.98444.00

*** MODEL ALSO APPLIES TO 4200 & 4300 SERIES

*** MECHANICAL SEAL KIT PART # 692.98444.00 INCLUDES: (1) ROTARY SEAL - 081.00034.00, (1) HOUSING GASKET- 545.00001.00, (1) SEAL LUBRICANT- 214.00044.00 AND (1) IMPELLER SCREW- 001.06850.00

3500 Series

MSVA	MODEL	IMPELLER	DIAMETER	HP	GPM	PSI	MECHANICAL SEAL KIT
605.00003.XX	35215	695.18479.00	4.015"	1/3 HP	3	20	692.98444.00
	35230			1/3 HP	6	20	692.98444.00
	35245			1/3 HP	9	20	692.98444.00
	35260			1/3 HP	12	20	692.98444.00
605.00005.XX	35275	695.18409.00	4.09"	1/2 HP	15	20	692.98444.00
	352100			1/2 HP	20	20	692.98444.00
605.00111.XX	352150	695.18409.03	4.09"	3/4 HP	30	20	692.98444.00

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5000 Series

MSVA	MODEL	IMPELLER	DIAMETER	HP	GPM	PSI	MECHANICAL SEAL KIT
605.00003.XX	50215	695.18479.00	4.015"	1/3 HP	3	20	692.98444.00
	50230			1/3 HP	6	20	692.98444.00
	50245			1/3 HP	9	20	692.98444.00
	50260			1/3 HP	12	20	692.98444.00
605.00005.XX	50275	695.18409.00	4.09"	1/2 HP	15	20	692.98444.00
	502100			1/2 HP	20	20	692.98444.00

*** MECHANICAL SEAL KIT PART # 692.98444.00 INCLUDES: (1) ROTARY SEAL - 081.00034.00, (1) HOUSING GASKET- 545.00001.00, (1) SEAL LUBRICANT- 214.00044.00 AND (1) IMPELLER SCREW- 001.06850.00

MSHA

MSHA	IMPELLER	DIAMETER	HP	GPM	PSI	MECHANICAL SEAL KIT
605.00004.XX	695.18479.00	4.015"	1/2 HP	3	20	692.98444.00
			1/2 HP	6	20	692.98444.00
			1/2 HP	9	20	692.98444.00
			1/2 HP	12	20	692.98444.00
605.00006.XX	695.18409.00	4.09"	1/2 HP	15	20	692.98444.00
			1/2 HP	20	20	692.98444.00
605.00158.XX	695.18409.03	4.09"	3/4 HP	30	20	692.98444.00

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