

Models 30550-2XXX, 30550-3XXX 30550-4XXX, 30550-5XXX

SELF-PRIMING PUMPS

FEATURES

Pump Type: 30550-2XXX Pump Head

30550-3XXX Pump Head 30550-4XXX Close Coupled 30550-5XXX Close Coupled 316 Stainless Steel Impeller:

Body: 316 Stainless Steel Impeller:

Neoprene or EPDM

Shaft Seal: Mechanical; Carbon-on-Ceramic or

Tungsten Carbide; Nitrile

Ports: 1" ACME Threads with Bevel Seat or

Clamp Type

Shaft: 316 Stainless Steel Motor:

115 Vac, Single Phase, 60Hz, 3/4 HP, 1750 RPM, TEFC, C-Face, 56C Frame

Weight: 30550-2XXX 7.5 lb (3.4 kg) Approx.

30550-3XXX 7.5 lb (3.4 kg) Approx. 30550-4XXX 36.0 lb (16.3 kg) Approx. 30550-5XXX 36.0 lb (16.3 kg) Approx.

VARIATIONS AVAILABLE

Model	Description
30550-2005	Standard Pressure, Neoprene Impeller,
30550-4005	Carbon Seal, ACME Ports
30550-2105	Standard Pressure, Neoprene Impeller,
30550-4105	Tungsten Carbide Seal, ACME Ports
30550-3005	Standard Pressure, Neoprene Impeller,
30550-5005	Carbon Seal, Clamp Ports
30550-3105	Standard Pressure, Neoprene Impeller,
30550-5105	Tungsten Carbide Seal, Clamp Ports

APPLICATIONS

DAIRY: Transfer and processing of raw milk, cream, milk whey, buttermilk, condensed milk.

FOODS: Processing of eggs, sugar liquors, brines, catsup, chocolate, glaze, gelatin, honey, jams, jellies, mayonnaise, molasses, mustard, pickle relish, vinegar, water, yeast slurries, syrups, liquids containing solids in suspension such as chopped tomatoes, nuts, peanut butter.

BEVERAGE: Circulating and transferring alcohols, beers, brewery slop, cider, distillery wort, extracts, flavors, juice, mash, soft drink syrups, wines.

PHARMACEUTICAL: Moving medicines, cosmetics, process chemicals, lotions, preparations, filtering solutions, used as a filling line supply pump.



Explosion hazard. Do not pump gasoline, solvents, thinners or other flammable liquids. To do so can cause an explosion resulting in injury or death.





Models 30550-2XXX, -3XXX, -4XXX, -5XXX



Explosion hazard. Motor can spark. Explosion & death can occur. Do not use where flammable vapors are present.

OPERATING INSTRUCTIONS

- INSTALLATION Pump may be mounted in any position. The rotation of the pump shaft determines the location of the pump's intake and discharge ports. (Refer to dimensional drawing.) Pump is normally assembled at factory for clockwise rotation looking at end cover. If counterclockwise rotation is desired, follow steps 1 and 2 of disassembly and step 9 of assembly instructions to change direction of impeller blade deflection under cam.
- MOTOR SELECTION Pump Head is designed to fit a 56C Frame NEMA C-Face Motor. Motor should be rated 3/4 horsepower at 1750 RPM with a service factor of one. Due to high bearing loads, motor should be ball bearing equipped with the front bearing locked against axial movement. Motor should be capacitor start and foot mounted.
- SPEEDS 100 RPM to the maximum shown in the performance curves. For longer pump life, operate at lowest possible speeds. Lower speeds are required for viscous liquids. Consult the factory for proper speeds and horsepower requirements.

Jabsco Pumps 30550-5002

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- SELF-PRIMING Primes at low or high speeds. For vertical dry suction lift of 10 feet (neoprene) – 6 feet (EPDM), a minimum of 860 RPM is required. Pump will produce suction lift up to 22 feet when wet.
 - BE SURE SUCTION LINES ARE AIRTIGHT OR PUMP WILL NOT SELF-PRIME.
- DISCHARGE When transferring liquids further than 25 feet, use one size larger discharge line than discharge port size.
- RUNNING DRY Unit depends on liquid pumped for lubrication. DO NOT RUN DRY for more than 30 seconds. Lack of liquid will damage the impeller.
- 7. PUMPAGE COMPATIBILITY Consult the Chemical Resistance Guide in the JABSCO Industrial Pump Catalog (available upon request from the factory) for proper body materials and impeller compounds. If corrosive fluids are handled, pump life will be prolonged if pump is flushed with a neutralizing solution after each use or after each work day. A Tungsten Carbide Seal variation is available for pumping liquids that contain abrasives or are highly corrosive.
- PRESSURES Consult Performance Curves for maximum recommended pressures for pump in continuous operation. If pressures exceed those shown, consult the factory.
- TEMPERATURES The operating temperature limits of the pump depend on the impeller compound. The following ranges apply: Neoprene - 45° to 150°F (7° to 65° C), EPDM - 45° to 185° F (7° to 85° C).
- 10. IMPELLER TORQUE The torque required to initiate rotation of a new impeller in a dry pump body is: Standard Pressure Impeller (7614-Series):

Forward = 1.5 pounds force – feet Reverse = 4.3 pounds force – feet

These values may vary slightly due to impeller compounding, blade set, and body material of construction. Consult factory for more information.

11. CLEANING – Before using pump, it should be disassembled and cleaned to remove any dust and dirt resulting from storage or shipping. Wash parts in standard cleaning solutions approved for handling stainless steel. Thoroughly rinse before reassembly. DO NOT USE IODINE BASED SANITIZERS as the iodine attacks the elastomer materials used in the impeller.

All parts have been expertly machined and polished. HANDLE WITH CARE. DO NOT DROP OR MISHANDLE.

12. SPARE PARTS – To avoid costly shutdowns, keep a spare JABSCO impeller, seal and O-ring set on hand.

SERVICE INSTRUCTIONS

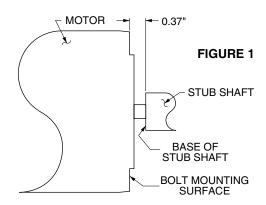
DISASSEMBLY

- Remove the four end cover screws. Remove end cover and O-ring.
- Remove the four screws, holding the body to the adapter flange. Slide body, complete with impeller and wearplate, from adapter and shaft.
- Remove mechanical seal by inserting two screwdrivers behind seal collar, and gently lever collar and seal assembly forward on shaft. Use extreme care

- not to mar shaft surface. Remove seal seat and rubber cup from recess in wearplate.
- 4. Remove the four screws holding the adapter to the motor and remove the adapter.
- 5. Stub shaft is held in place with set screws and Loctite* RC/680 retaining compound. Extreme care must be taken not to damage the motor shaft and bearings when removing the stub shaft. Heat shaft joint area to facilitate disassembly of set screws and stub shaft from motor shaft. DO NOT EXCEED 350°F when heating joint area. Once joint area has been heated, remove set screws and slide stub shaft from motor shaft.

ASSEMBLY

- Liberally apply Loctite RC/680 retaining compound to the motor shaft and slide the stub shaft on, positioning the base of the stub shaft 0.37" from the bolt mounting surface of motor and two of the four set screw holes over the keyway in the motor shaft. For clarification refer to figure 1 below. Loctite aids in preventing fretting and subsequent shaft failure. Wipe off excess Loctite. Apply Loctite to the two dog point (flat point) set screws, position in the set screw holes aligned with the keyway of the motor shaft and torque to 55-60 in. – lbs. Apply Loctite to the two cap point screws and torque to 85 - 90 in. – lbs.
- 2. Replace the adapter on the motor and tighten the four mounting screws to 20 ft. lbs.
- Replace mechanical seal by sliding spacer onto shaft up to locating shoulder, then smear shaft with light lubricating oil. Push on seal gently until it engages with spacer. Fit rubber cup and seal seat into wearplate.
- 4. Insert impeller in pump body, fit O-ring in each end of the pump body.
- 5. Slide wearplate and body assembly over shaft, position wearplate in housing. Fit body to pedestal with screws. Torque screws to 20 in. lbs.
 - NOTE: A gap should be maintained between bearing housing and body. DO NOT over tighten screws.
- 6. Fit end cover and end cover screws. Torque screws to 20 in. lbs.
- 7. Changing Pump Rotation (looking at end cover):
 - a. Clockwise Rotation: Insert impeller into pump body with blades bending counterclockwise
 - b. Counterclockwise Rotation: Insert impeller into pump body with blades bending clockwise.

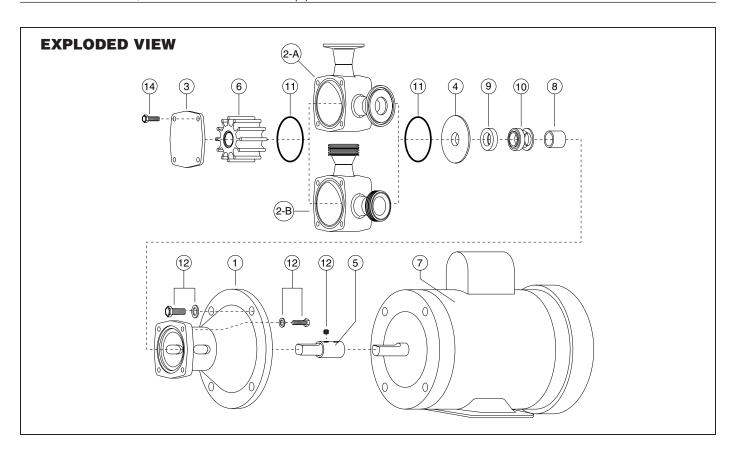


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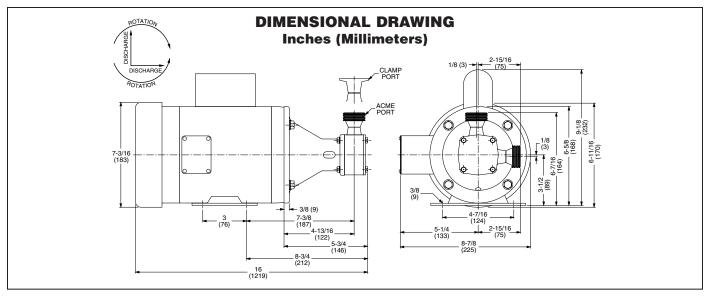
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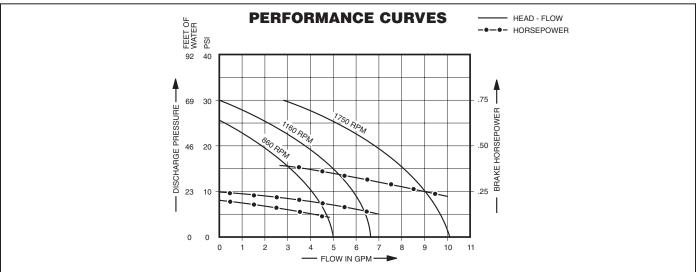
PARTS LIST

				Model	Model	Model	Model
Key	Description		ity. eq.	30550-2XXX Part No.	30550-3XXX Part No.	30550-4XXX Part No.	30550-5XXX Part No.
Key	Description		eq.	Part No.	Part No.	Part No.	Part No.
1	Adapter		1	18753-0215	18753-0215	18753-0215	18753-0215
2	Body:		1				
	2-A. Clamp Ports				18753-0353		18753-0353
	2-B. ACME Ports			18753-0354		18753-0354	
3	End Cover		1	18753-0355	18753-0355	18753-0355	18753-0355
4	Wearplate		1	18753-0199	18753-0199	18753-0199	18753-0199
5	Shaft		1	18753-0209	18753-0209	18753-0209	18753-0209
6	Impeller:		1				
	Standard Pressure - Neoprene			7614-0005	7614-0005	7614-0005	7614-0005
	Standard Pressure - EPDM			7614-0002	7614-0002	614-0002	7614-0002
7	Motor:		1				
	3/4 HP, 115 Vac, 1 Ph,					18753-0219	18753-0219
	60 Hz, TEFC, 56C Frame						
8	Spacer		1	18753-0223	18753-0223	18753-0223	18753-0223
9	Seal Seat: Ceramic – Nitrile		1	18753-0233	18753-0233	18753-0233	18753-0233
10	Seal Mech.:		1				
	Carbon – Nitrile			18753-0357	18753-0357	18753-0357	18753-0241
	Tungsten Carbide – Nitrile			18753-0358	18753-0358	18753-0358	18753-0243
11	O-Ring: Nitrile		2	18753-0261	18753-0261	18753-0261	18753-0261
12	Screw Kit:		1	18753-0278	18753-0278	18753-0278	18753-0278
	Consists of						
	Screw, Hex Hd. 3/8-16x1"	(4)					
	Screw, Hex Hd. M5x16mm	(4)					
	Screw, Hex Hd. M5x8mm	(4)					
	Set Screw, Cup Pt. 1/4-20x1/4	(2)					
	Set Screw, Dog Point 1/4-20x1/2						
	Washer, Flat 3/8	(4)					
	Washer, Flat M5	(4)					



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NOTE: Curves show approximate head flow for new pumps with neoprene or EPDM impeller pumping water.

PUMP SPEED SELECTION ACCORDING TO PRODUCT VISCOSITY

Viscosity S.S.U.	Pump Speed (Max. RPM)						
50	1750	700	1680	4,000	1400	15,000*	787
100	1750	800	1645	5,000	1312	20,000*	700
200	1750	900	1610	6,000	1225	30,000*	612
300	1750	1,000	1575	7,000	1138	40,000*	525
400	1750	1,500	1540	8,000	1050	50,000*	437
500	1750	2,000	1505	9,000	962	75,000*	298
600	1715	3,000	1450	10,000	875	100,000*	175

Consult factory for specific performance information. *Use High Pressure Impeller.

Jabsco



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Tel: (519) 821.1900 Fax: (519) 821.2569 THE PRODUCTS DESCRIBED HEREIN ARE SUBJECT TO THE JABSCO ONE YEAR LIMITED WARRANTY, WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.

GERMANY

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