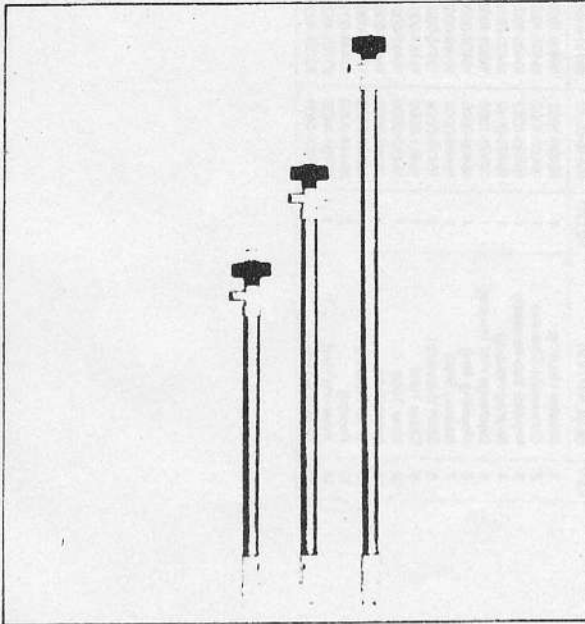


JABSCO

Model 16510-SERIES



SANITARY DRUM PUMPS

FEATURES

Tube:	Stainless Steel and FDA Grade Polypropylene
Impeller:	Centrifugal Type
Shaft:	316 Stainless Steel
Seal:	Sealless with Viton [®] Vapor Barrier
Port:	1 inch Dia. Slip-on Hose Discharge
Weight:	7.5 lbs. (3,4kgs.) average for 16510-series

VARIATIONS AVAILABLE

Model	Description
16510-0270	27" (68cm) long, stainless steel
-0350	35-1 2" (90cm) long, stainless steel
-0470	47" (119cm) long, stainless steel

MODEL 16510-SERIES

APPLICATIONS

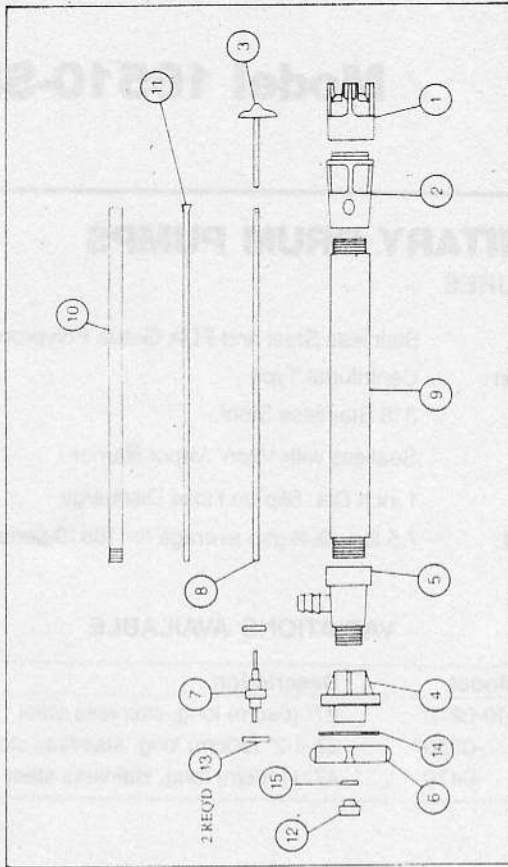
Designed for emptying containers, carboys, drums and vats. Easily handles the most corrosive of liquids. **WARNING: DO NOT PUMP SOLVENTS, THINNERS OR GASOLINE.**

Refer to Chemical Resistance Table in the JABSCO Industrial Catalog (form 43001-0075) for assistance in selecting the most suitable pump material. The catalog is available upon request from the ITT JABSCO factory.

OPERATING INSTRUCTIONS

- General** – When operating the JABSCO drum pump protective clothing, gloves, and safety glasses should be worn. All standard safety practices should be followed.
- Installation** – Pump may be mounted through bung hole in drums, on side of vats and tanks, and through top of carboys. Barrel Adaptors are available to hold pump in stationary or rigid position. When inserting drum pump into barrel, vat or drum slowly lower pump into container to avoid spills. Correct pump length should be selected for container with which pump is to be used.
- Drive** – An electric motor (16420-series) and an air motor (16440-series) are available to drive the drum pump. Both readily fit on the drive end of the pump. Refer to the motor data sheets for details (forms 43000-0468 and 43000-0469).
- Running Dry** – Unit has been designed for limited run dry capability. Do not run dry for more than 30 minutes. Lack of liquid will eventually damage bearings and other pump parts.
- Discharge Line** – A 1" dia. barbed hose fitting has been provided on the drum pump. A tightly secured hose clamp must be used to hold the discharge hose on the discharge fitting. It is recommended that smooth bore hose of a material compatible with the fluid pumped be used as a discharge hose. Adequately secure discharge end of hose to prevent hose from whipping when pump is started.
- NOTICE** – When corrosive fluids are handled, pump life will be prolonged if pump is flushed with water after each use or after each work day. For further information, consult JABSCO Chemical Resistance Table (available upon request from ITT JABSCO) or factory.
- Pressures** – The drum pump is designed to operate in containers open to the atmosphere, therefore maximum inlet pressure is atmospheric pressure (0 psig, 0 bar). For higher inlet pressure applications consult factory.
- Temperatures** – 32° - 200°F (0° - 93°C).
- Storage** – When not in use store drum pump on wall bracket with impeller end in down position to allow full drainage.

EXPLODED VIEW



PARTS LIST

KEY	DESCRIPTION	QTY. REQ'D	MODEL 16510-0270	MODEL 16510-0350	MODEL 16510-0470
1	Impeller Housing	1	16406-1002	16406-1002	16406-1002
2	Conversion Chamber	1	16407-1002	16407-1002	16407-1002
3	Impeller Sub-Assembly	1	16405-1003	16405-1003	16405-1003
4	Bearing Housing	1	16403-0010	16403-0010	16403-0010
5	Discharge Port Housing	1	16503-1002	16503-1002	16503-1002
6	Mounting Ring	1	16409-0000	16409-0000	16409-0000
7	Bearing Shaft	1	16468-0002	16468-0002	16468-0002
8	Shaft Extension	1	16418-0006	16418-0007	16418-0008
9	Outer Tube	1	16461-0000	16461-0001	16462-0002
10	Inner Tube	1	16462-0000	16462-0001	16463-0002
11	Insert Tube	1	16463-0000	16463-0001	16500-0000
12	Drive Coupling	1	16500-0000	16500-0000	16500-0000
13	Bearing	2	35444-0000	35444-0000	35444-0000
14	Retaining Ring	1	91701-4433	91701-4433	91701-4433
15	Retaining Ring	1	91701-4434	91701-4434	91701-4434

11. **Flow Regulation** - In applications such as filling small containers where low flow rates are required to avoid splashing of liquid, an adjustable nozzle is available.
12. **Dirt and Abrasive Particles** - It is strongly recommended that when pumping any materials containing dirt or abrasive particles a strainer be used. Strainers are available as an option.
13. **Performance Limits** - A maximum specific gravity of 1.8 or viscosity of 3500 ssu (750 cP) is the recommended limit for normal use. Contact factory for further information.
14. **Spare Parts** - Use JABSCO service parts for replacement and repair.

SERVICE INSTRUCTIONS

CAUTION CHEMICAL HAZARD PUMPS WHICH HAVE HANDLED CORROSIVE, CAUSTIC OR TOXIC FLUIDS SHOULD BE DRAINED AND COMPLETELY FLUSHED PRIOR TO SERVICING FAILURE TO DO SO MAY CAUSE INJURY.

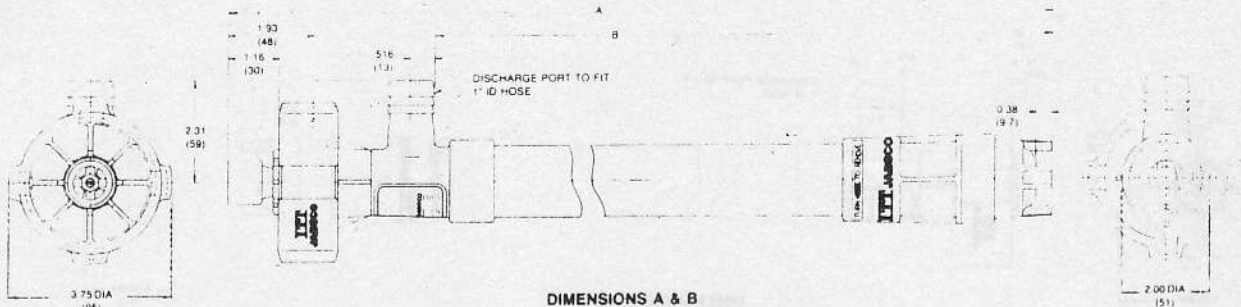
Disassembly

1. Unscrew and remove impeller housing.
2. Insert a screwdriver through the drive coupling into the slot provided on the bearing shaft. While preventing the bearing shaft from rotating with the screwdriver, use the four pegs on the bottom of the impeller housing as a wrench and unscrew and remove the impeller sub-assembly. This is a right-hand thread connection as are all connections on the JABSCO drum pump.
3. Unscrew and remove the conversion chamber.
4. Unscrew and remove the outer tube.
5. Remove the shaft extension by inserting a screwdriver through the drive coupling into the slot on the bearing shaft and rotating the bearing shaft counterclockwise while holding shaft extension.
6. Unscrew and remove the inner tube from the discharge port housing.
7. Gently pull the insert tube from the inner tube.
8. Unscrew and remove the discharge port housing.
9. Remove the retaining ring from the mounting ring by inserting screwdriver in one of the four slots provided and pry outward.
10. Slip mounting ring from bearing housing.
11. Remove motor coupling from bearing shaft by inserting screwdriver into slot of bearing shaft and rotating coupling counterclockwise.
12. Remove bearing retaining ring from bearing housing.
13. Pull bearing shaft and bearings from bearing housing.
14. Press bearings off shaft.

Assembly

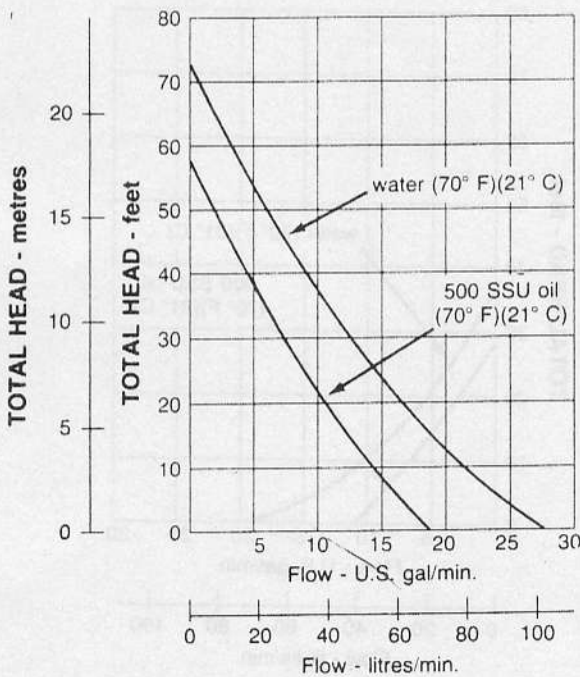
1. Press bearings on bearing shaft.
 2. Insert bearing shaft and bearings into bearing housing.
 3. Install bearing retaining into bearing housing.
 4. Screw motor coupling onto bearing shaft while holding shaft from rotating with screwdriver in the slot provided. This is a right-hand thread connection as are all connections on the JABSCO drum pump.
 5. Slip mounting ring on bearing housing.
 6. Insert retaining ring into mounting ring.
 7. Screw discharge port housing to bearing housing taking care that lip seal is positioned correctly on bearing shaft, and not damaged during assembly.
 8. Install insert tube into inner tube.
 9. Screw inner tube to discharge port housing.
 10. Slide shaft extension up center of insert tube and screw into bearing shaft by turning bearing shaft with screwdriver while holding shaft extension.
 11. Screw outer tube into discharge port housing.
 12. Screw the conversion chamber to the outer tube.
 13. Insert impeller sub-assembly through conversion chamber into shaft extension and tighten using the four pegs on the impeller housing as a wrench while holding shaft from rotating with a screwdriver in the slot provided.
 14. Screw impeller housing to conversion chamber.
- Do not operate pump without impeller housing installed.

DIMENSION DRAWING INCHES (MILLIMETRES)

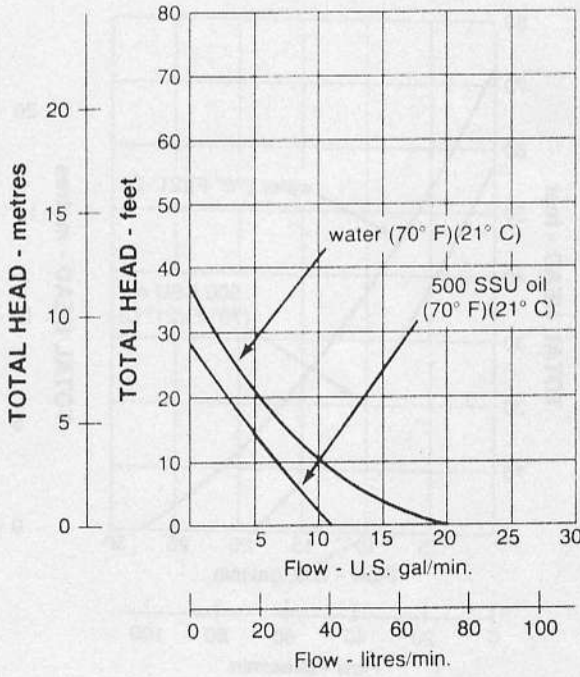


MODEL	16510-0270	16510-0350	16510-0470
A	31-19/32 (802)	40-3/32 (1018)	51-19/32 (1310)
B	27 (686)	35-1/2 (902)	47 (1194)

PERFORMANCE TABLES



Pump tube with electric motor.



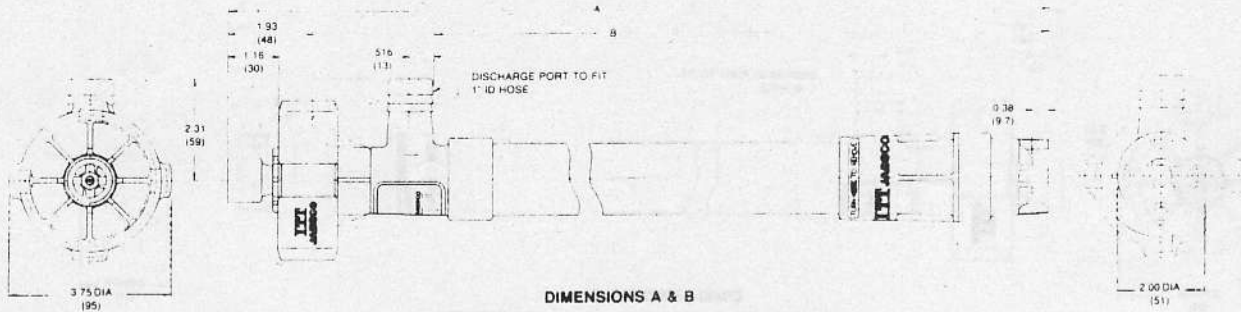
Pump tube with air motor operating at 80 (5.5 bar) psi inlet air pressure to motor.

THE PRODUCTS DESCRIBED HEREIN ARE SUBJECT TO THE JABSCO ONE YEAR WARRANTY, WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.

ITT JABSCO

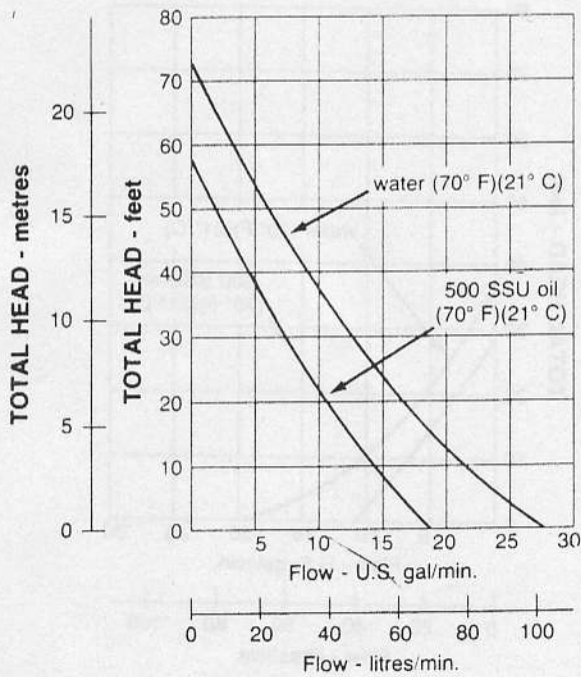
A Unit of ITT Corporation
1485 Dale Way, P.O. Box 2158
Costa Mesa, CA 92628-2158
Telephone: (714) 545-8251

DIMENSION DRAWING INCHES (MILLIMETRES)

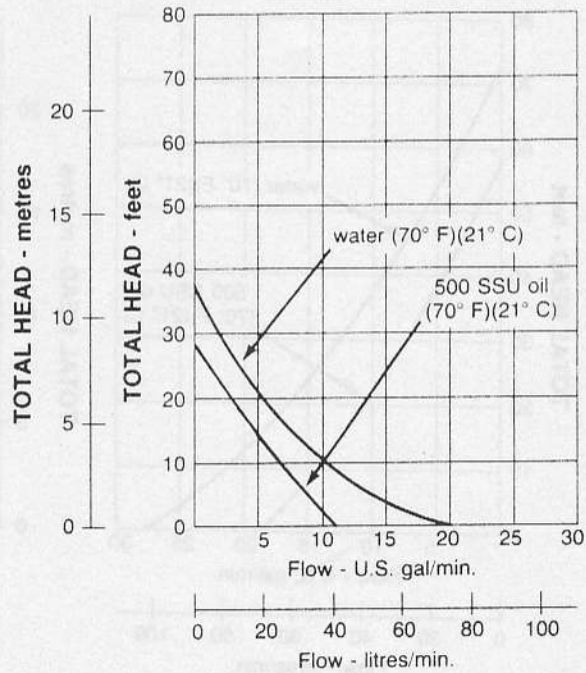


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