ESSCO

EXPLOSION-PROOF SUBMERSIBLE SUMP PUMP



ESSCO heavy duty submersible explosionproof sump pumps are of the 100% recessed impeller design. Each unit is capable of handling long stringy material, large size solids and slurries within maximum solids handling efficiency. The **ESSCO** pump incorporates the vortex pumping action along with unique pump design, allowing the greatest flexibility in the submersible pump field.

VOLUTE: Each volute is engineered for maximum life in "sump pump" duties.

ESSCO utilizes a single piece volute design with extra material in high wear areas.

IMPELLER: ESSCO pumps are available with various impeller designs to allow for high capacity low head or low capacity high head applications. **ESSCO** utilizes investment cast impellers for higher casting density and thicker vanes and back shrouds which allow for maximum life. By use of the <u>JLI</u> manufacturing techniques **ESSCO** offers trimmed impellers in extremely hard and difficult to handle alloys. By use of this production technique, impellers can be machined to act as a shredder (for solids coming in contact with the eye of the impeller) or machined to handle solids more delicate in nature.

WEAR PLATE: The ESSCO MODEL 252

comes standard with a wear plate located behind the impeller. The wear plate is designed to protect the motor bracket and mechanical seal from particle erosion. The wear plate can also act as a barrier for a seal flushing fluid when a simple wear plate is not sufficient protection against wear created by the pumped media. Again **ESSCO** utilizes the <u>JLI</u> production method for manufacturing this pump component to ensure the best possible casting quality and material density.

COOL AGIVENT: Each **ESSCO** submersible pump includes a Cool Agivent apparatus which is for venting pump case and cooling external surface of the motor. This patented

ESSCO Pumps & Controls

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device will allow a more shallow wet well design, as well as keeping the motor cool when not submerged. All **ESSCO** submersible pumps are capable of running dry continuously. (consult factory for specific applications).

MOTOR: ESSCO offers U.L. listed explosion- proof motors for Class 1, Division 1, group D hazardous locations. The motor is manufactured by Reliance Electric Co. and includes moisture detection and thermal protection as standard features. Heavy duty bearings and dual mechanical seals are standard for both motor designs and on special request high temperature and energy efficient designs are available. (Not all motor options are available on U.L. listed motors.)

In addition to the above listed standard items **ESSCO** offers the following options:

- ~ 316 S.S. motor shaft
- Nitronic 50 acid resistant stainless steel
- Tungsten carbide lower mechanical seal with stainless steel metal components and Buna-N elastomer
- Silicon carbide lower mechanical seal with stainless steel metal components and <u>Viton</u> elastomers
- Mechanical seal flush
- ~ 316 S.S. motor mounting bracket
- ~ 2-part epoxy coating
- ~ Steel motor jacket
- ~ 316 S.S. motor jacket

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- Motor jacket flush connection (for cooling in hot liquid applications)
- Viton motor "O" rings
- ~ Teflon coated Viton "O" rings

OPTIONAL LIQUID END MATERIALS:

- ~ Ni Hard 550 Brn
- ~ Ni Hard 650+ Brn
- ~ HCI 550 Brn
- ~ HCI 650+ Brn
- ~ CD4MCu
- ~ 316 S.S.
- ~ 304 S.S.
- ~ Hastalloy
- ~ Alloy 20
- ~ Navy Bronze
- ~ Other

ADDITIONAL OPTIONS:

- ~ Certified Performance Test*
- Certified Hydrostatic Test^{*}
- ~ Certified Motor Test
- ~ Explosion-proof Slide Rail Assembly
- ~ U.L. Listed Control Panels

^{*}All tests are conducted as per Hydraulic Institute Standards.

ESSCO maintains a large stock of complete pump units and spare parts for quick shipment. For special alloy parts **ESSCO** has a quick shipment program to ensure customer a minimum of down time.

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Member of the Hydraulic Institute



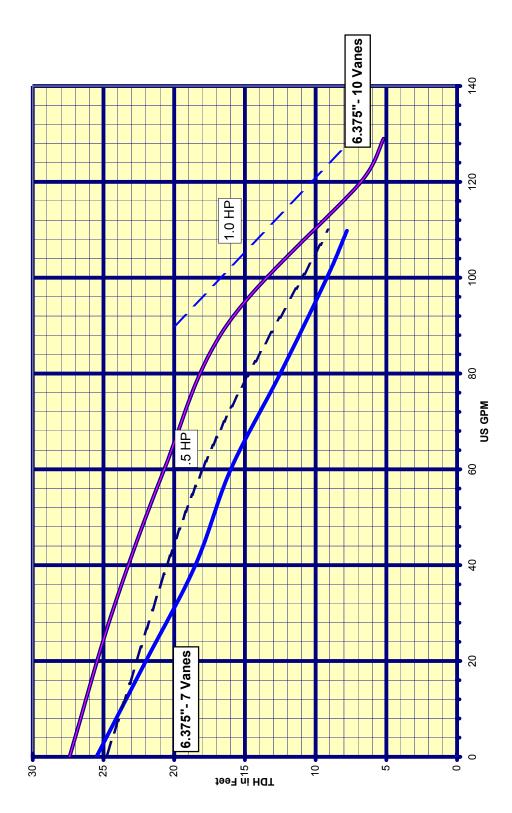
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Pump Model: 252		Impeller No.: 1050	l 050
RPM: 1750		Sphere Size: 2"	
Type: {	Type: Submersible		
Impeller Type: Vortex	Vortex 7 Vane		
Impeller Dia: 6.375	3.375		
Condition Point:	0 GPM	L 0	0 TDH
Condition Point:	0 GPM	L 0	0 ТDH
Condition Point:	0 GPM	L 0	0 TDH



Curve Date 11/91

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