CTSURUMI PUMP

FEATURES

Apr. 14

- 1. Semi-vortex, urethane rubber, Ductile Iron, or High Chrome Cast Iron impeller with synthetic rubber casing increases wear resistance when pumpage contains abrasive particles.
- 2. Double inside mechanical seals with silicon carbide faces, running in an oil filled chamber and further protected by a lip seal running against a replaceable, 430 stainless steel shaft sleeve, provides for the most durable seal design Available.
- 3. Highly efficient, continuous duty, air filled, copper wound motor with class E insulation minimizes the cost of operation.
- 4. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a

SPECIFICATIONS

Discharge Size Horsepower Range Performance Range Capacity Head Maximum water temperature

Materials of Construction Casing Impeller

Agitator Shaft Motor Frame Fasteners Mechanical Seal Elastomers

Impeller Type Solids Handling Capability

Motor Nomenclature Type, Speed, Hz. Voltage, Phase Insulation Bearings

Accessories

Operational Mode

B-10 life of 60.000 hours extend operational life.

KTV(E)- SERIES

SEMI -VORTEX - DEWATERING PUMP (Auto Type)

- 5. Top discharge, flow-thru design enables operation at low water levels for extended Periods.
- 6. Automatic Operation on **KTVE** Series.
- 7. A powerful Slurry pump series using KTV2-50/-80 pumps as a base incorporates high chrome cast iron agitator.
- **APPLICATIONS** 1. Commercial, industrial wastewater and construction site drainage.
- 2. Effluent transfer.
- 3. Decorative waterfalls and fountains.
- 4. Raw water supply from rivers or lakes.

STANDARD

2 - 3" NPT (50 - 80 mm) 1 ~ 7.5 HP. (0.75 ~ 5.5 Kw) 23.8 ~ 230.0 GPM. (0.09 ~ 0.87 m³/min) 16.4 ~ 121.0 Ft. (5.0 ~ 36.9 m) 104° F. (40° C.)

Butadiene Rubber + Natural Rubber Urethane Rubber, Ductile Cast Iron, High Chrome Cast Iron(KTV2-50/-80) High Chrome Cast Iron(KTV2-50/-80) 403/420 Stainless Steel Aluminum allov 304 Stainless Steel Silicon Carbide NBR (Nitrile Butadiene Rubber)

Semi-vortex, solids handling. 0.334" (8.5mm)

Air Filled, 3600 RPM, 60 Hz. 208/230/460/575 V., 3 Phase Class E Pre-lubricated, Double Shielded

Submersible Power Cable 50' (15 m)

Manual, Automatic (KTVE)

SPECIFICATIONS



EQUIPPED

IL LIFT

OPTIONS

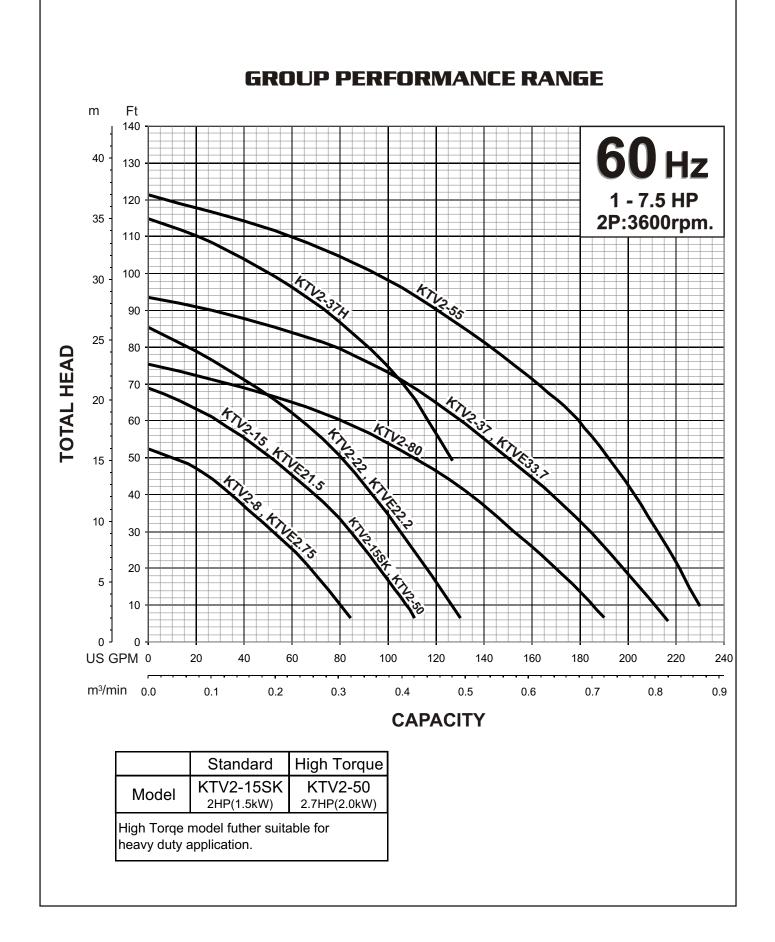
Length as Required

60-PC-KTV-00

Tsurumi Pump

KTV - SERIES SEMI-VORTEX - DEWATERING & AGITATOR PUMPS

PERFORMANCE RANGE

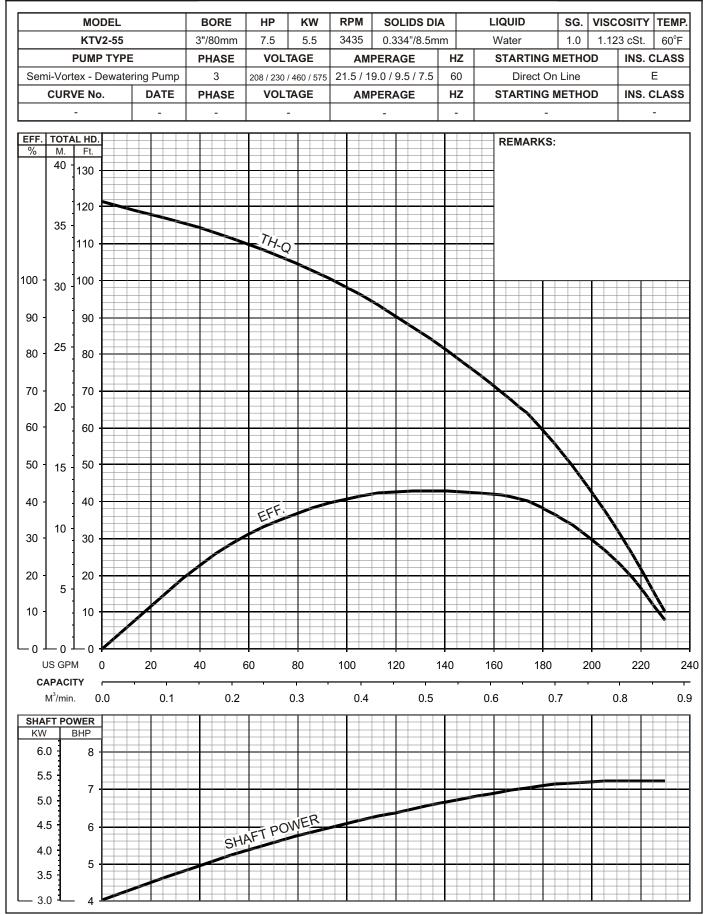


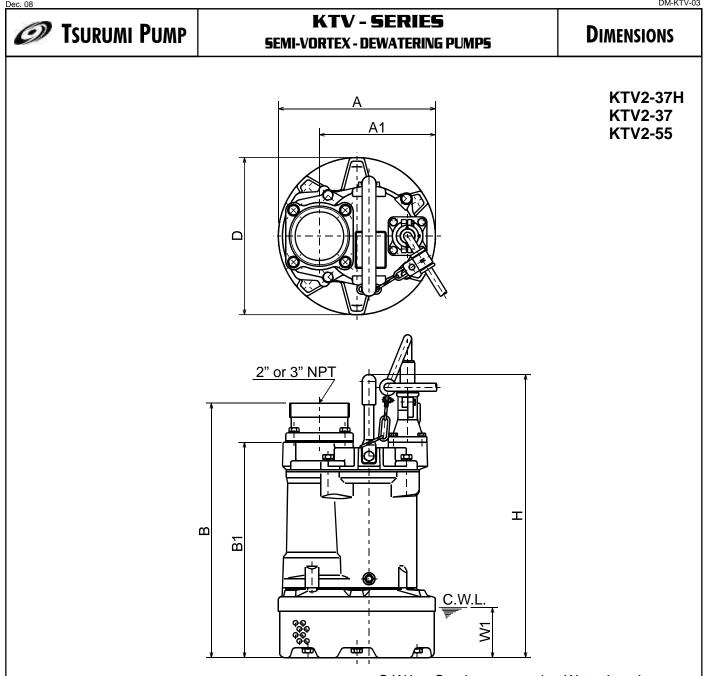
Feb. 12



TSURUMI PUMP KTV - SERIES SEMI-VORTEX - DEWATERING PUMPS

Performance Curve





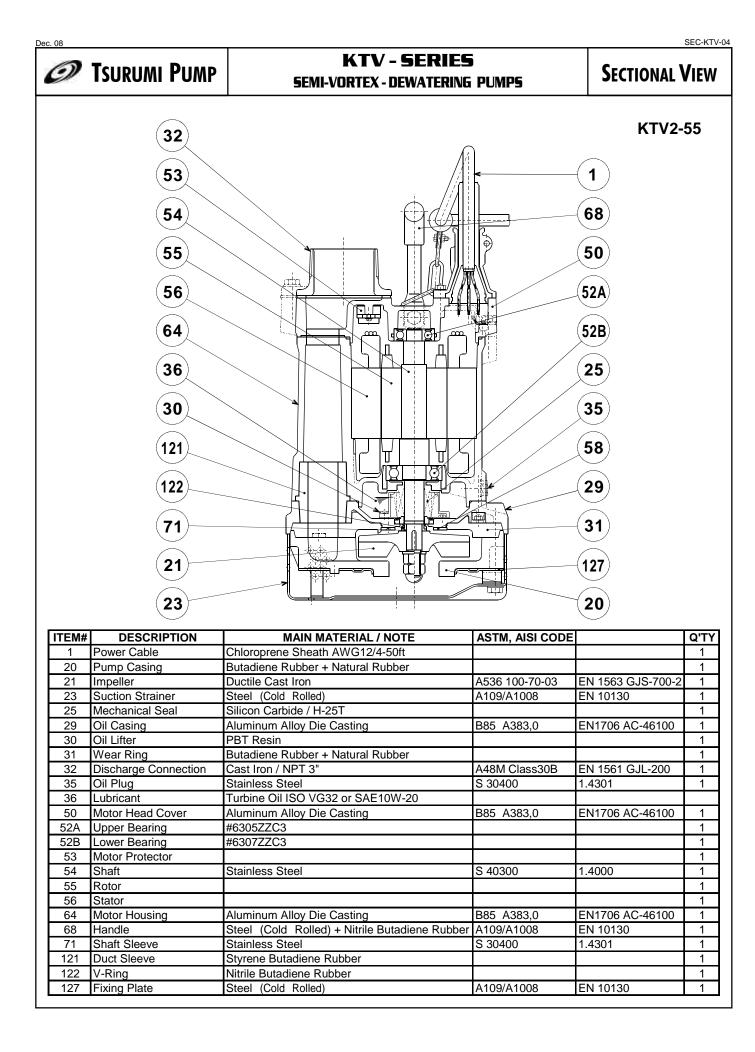
C.W.L. : Continuous running Water Level

DIMENSIONS:USCS (Inch)

Model	HP	NOM.		Pump & Motor						Wt.
		SIZE	Α	A1	В	B1	D	Н	W1	(lbs.)
KTV2-37H	5	2"	11 1/4	8 5/16	17 11/16	15 1/4	11 1/4	20 1/16	3 1/2	79
KTV2-37	5	3"	11 1/4	8 5/16	17 11/16	15 1/4	11 1/4	20 1/16	3 1/2	79
KTV2-55	7.5	3"	11 13/16	9	19 1/8	16 5/8	11 13/16	21 7/16	3 1/2	104

DIMENSIONS:METRIC (mm)

kW	NOM.	Pump & Motor						C.W.L.	Wt.
	SIZE	Α	A1	В	B1	D	Н	W1	(kg)
3.7	50	285	211	450	387	285	510	90	36.0
3.7	80	285	211	450	387	285	510	90	36.0
5.5	80	300	229	485	422	300	545	90	47.0
3	3.7	3.7503.780	3.7502853.780285	3.7502852113.780285211	3.7502852114503.780285211450	3.7502852114503873.780285211450387	3.7502852114503872853.780285211450387285	3.7502852114503872855103.780285211450387285510	3.750285211450387285510903.78028521145038728551090





KTV - SERIES SEMI-VORTEX - DEWATERING PUMPS

SAMPLE SPECIFICATIONS

1. SCOPE OF SUPPLY -

2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) shall be as follows: Pump casing shall be synthetic rubber. Motor frame shall be aluminum alloy die casting. Internal and external surfaces coming into contact with the pumpage shall be protected by a fused polymer coating. All exposed fasteners shall be stainless steel. All units shall be furnished with _____" NPT discharge connector. Impellers shall be of the multi-vane, ductile cast iron or urethane rubber (1Hp), semi-vortex design, equipped with back pump out vanes and shall be slip fit to the shaft and key driven.

3. MECHANICAL SEAL -

All units shall be furnished with a dual inside mechanical shaft seal located completely out of the pumpage, running in a separate oil filled chamber and further protected by an exclusionary oil seal located between the bottom seal faces and the fluid being pumped. The oil chamber shall be fitted with a device that shall provide positive lubrication of the top mechanical seal, (down to one third of the standard oil level). The device shall not consume any additional electrical power. Mechanical seals shall be rated to preclude the incursion of water up to 42.6 PSI. (98.4 Ft.) submergence. Units shall have silicon carbide mechanical seal faces. Mechanical seal hardware shall be stainless steel.

4. MOTOR-

The pump motor(s) shall be ______ H P., ______ kW., ______V., 60 Hz. 3 Phase and shall be NEMA MG-1 Design Type B equivalent. Motor(s) shall be rated at ______ full load amps. Motor(s) shall have a 1.15 service factor and shall be rated for 20 starts per hour. Motor(s) shall be air filled, copper wound, class E insulated with built in thermal and over amperage protection for each winding. Motor shaft shall be 403 or 420 stainless steel, fitted with a replaceable stainless steel shaft sleeve and shall be supported by two permanently lubricated, high temperature ball bearings, with a B-10 life rating at best efficiency point of 60,000 hours. Bearings on all units shall be single row, double shielded, C3, deep groove type ball bearing. Motors shall be suitable for across the line start or variable speed applications, utilizing a properly sized variable frequency drive.

5. POWER CABLE AND CABLE ENTRANCE -

Units up to 3 HP shall be supplied with a cable entrance that incorporates built in strain relief, and a one piece, three way mechanical compression seal with a fatigue reducing cable boot. The pump power cable shall be suitable for submersible pump applications. The power cable on units 5 HP and above shall be field replaceable utilizing standard submersible pump cable. The cable entrance shall incorporate built in strain relief and a combination three way mechanical compression seal with a fatigue reducing / thermal expansion boot. The cable entrance assembly shall contain an anti-wicking block to eliminate water incursion into the motor due to capillary wicking should the power cable be accidentally damaged.