TSURUMI PUMP

FEATURES

- Semi-open, Single vane, impellers with field adjustable /replaceable shear plate and, Enclosed Multi-vane, impellers, with field adjustable / replaceable wear plate provides for high wear resistance and enhanced solids handling capability.
- Highly efficient, continuous duty air filled, copper wound motor with class E, B, F insulation minimizes the cost of operation.
- 3. Built in thermal protection prevents motor failure due to overloading, accidental run-dry and single phasing in three phase units.
- Double inside mechanical seals with silicon carbide faces, running in an oil filled chamber, equipped with an oil lifter,, and further protected by an exclusionary oil Seal(s), provides for the most -

SPECIFICATIONS

Discharge Size Horsepower Range Performance Range, Capacity Head Maximum water temperature Materials of Construction Casing Impeller Shaft Motor Frame Fasteners Mechanical Seal

Elastomers

Impeller Type Solids Handling Capability

Bearings

Motor Nomenclature Type, Speed, Hz.

Voltage, Phase

Insulation Accessories

Operational Mode

- durableeal design available.

B - SERIES

SEWAGE & WASTEWATER PUMPS

 Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours provide for extended operational life.

APPLICATIONS

- 1. Commercial, Industrial sewage, wastewater, or effluent transfer.
- 2. Decorative fountains and aquiculture .
- 3. Raw water supply from rivers or lakes.

STANDARD

2" ~ 8" (50 ~ 200 mm) 1 Hp. ~ 20 Hp. (.75 kW ~ 20 kW) 20 ~ 1850 G.P.M. (.08 ~ 7.00 m³/min) 8.2 Ft.~105.0 Ft. (2.5 ~ 32.0m) 104° F. (40° C.)

Cast Iron, ASTM 48 Class 35 Cast Iron, ASTM 48 Class 35 403,420 Stainless Steel Cast Iron, ASTM 48 Class 30 304 Stainless Steel

Silicon Carbide NBR (Nitril Buna Rubber)

Semi-open, Enclosed, solids handling. .79" ~ 2.95" (20 ~ 75 mm)

Pre-lubricated, Double Shielded

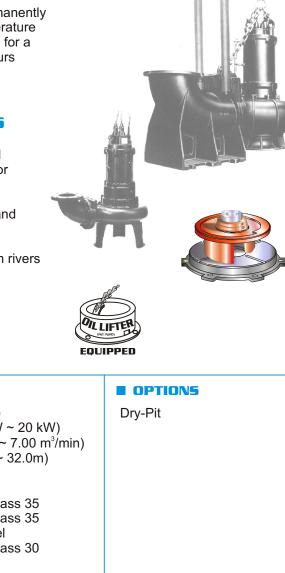
Air Filled, 3600, 1800 & 1200 Rpm, 60 Hz.

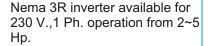
115 or 230 (1Phase) 208-230, 460 or 575 V., (3 Phase) Class E, B, F Submersible Power Cable 32' (10 m)

Manual

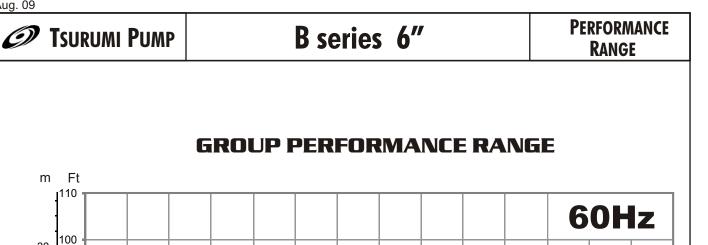
BE-BLP

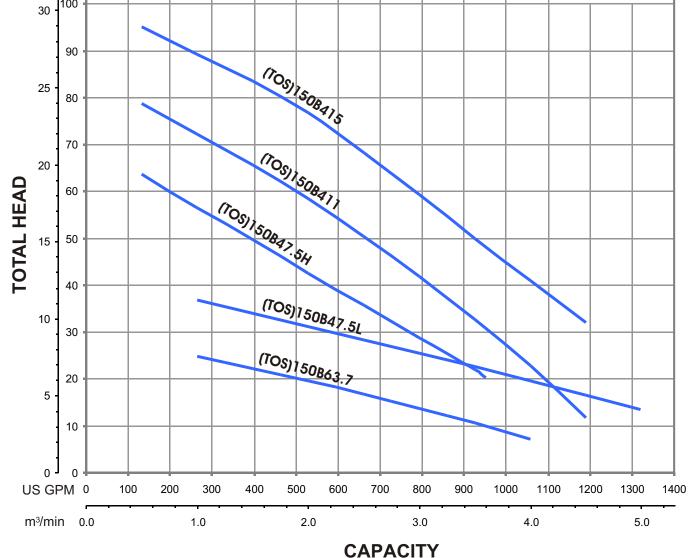
SPECIFICATIONS





Length as required. TO/TOS Slide Rail System



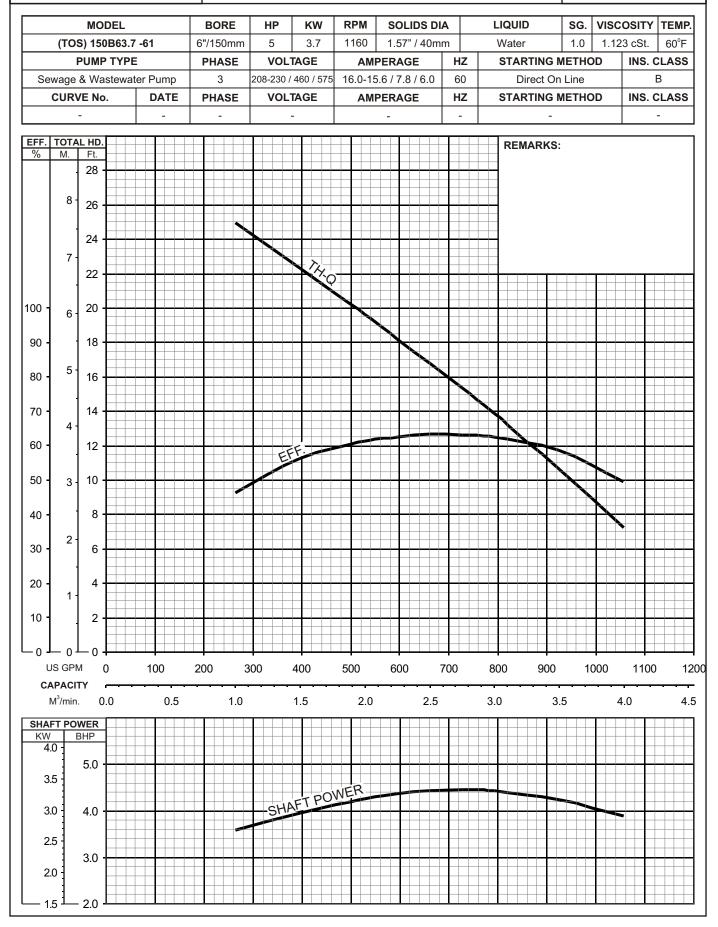




🧭 Tsurumi Pump

B - SERIES SEWAGE & WASTEWATER PUMPS

60-PC-B-08



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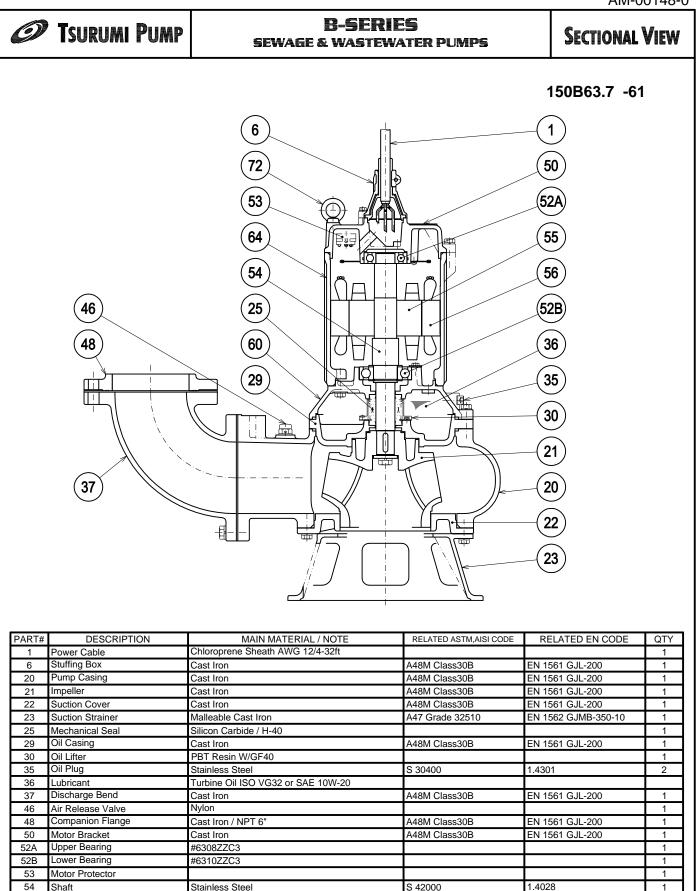
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3

EN 1561 GJL-200

EN 1561 GJL-200

EN 10025 S275



A48M Class30B

A48M Class30B

A283 Grade D

55

56

60

64

72

Rotor

Stator

Bearing Housing

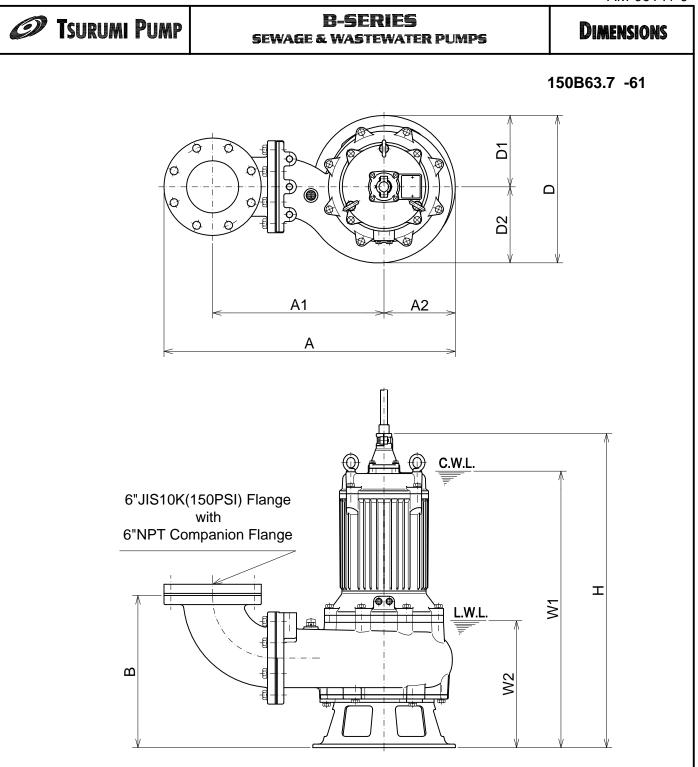
Motor Housing

Lifting Lug Bolt

Cast Iron

Cast Iron

Steel



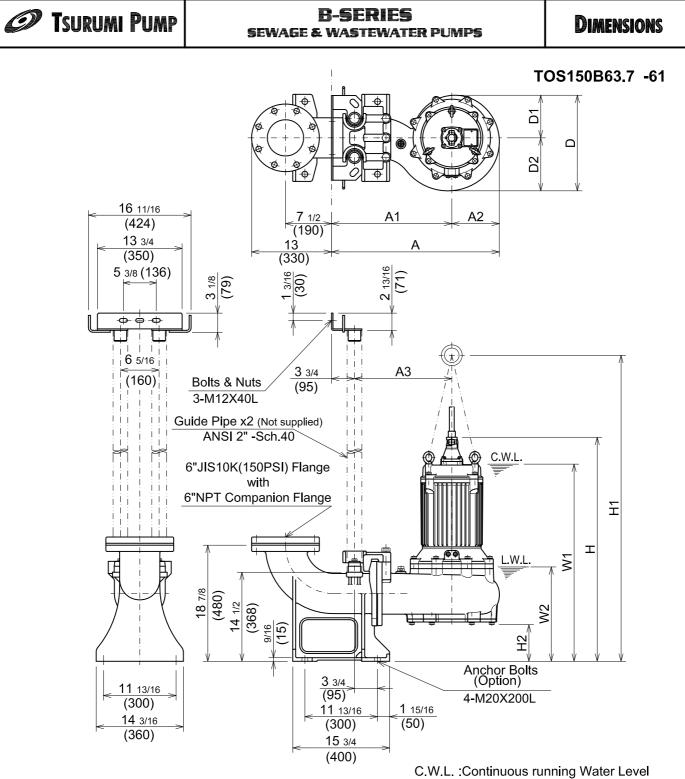
C.W.L. :Continuous running Water Level L.W.L. :Lowest running Water Level

DIMENSIONS:USCS(Inch)

Model	HP	NOM.			C.W.L. L.W.L.		Wt.						
		SIZE	Α	A1	A2	В	D	D1	D2	Н	W1	W2	(lbs.)
150B63.7 -61	5	6"	33	19 7/16	8 1/16	17 3/16	16 11/16	8 1/16	8 5/8	35 9/16	31 1/4	14 3/8	414

DIMENSIONS:METRIC(mm)

Model	kW	NOM.			C.W.L. L.W.L.		Wt.						
		SIZE	Α	A1	A2	В	D	D1	D2	Н	W1	W2	(kg)
150B63.7 -61	3.7	150	838	493	205	437	424	205	219	903	795	365	188



L.W.L. :Continuous running Water Level L.W.L. :Lowest running Water Level

DIMENSIONS:USCS(Inch)

Model	HP	NOM.		Pump & Motor											Wt.
		SIZE	Α	A1	A2	A3	D	D1	D2	н	H1	H2	W1	W2	(lbs.)
TOS150B63.7 -61	5	6"	27 5/16	19 9/16	7 11/16	15 13/16	15 9/16	6 15/16	8 5/8	36 7/16	49 3/4	6	32 1/8	15 3/8	348

DIMENSIONS:METRIC(mm)

Modal	kW	NOM.			C.W.L.	Wt.									
1		SIZE	Α	A1	A2	A3	D	D1	D2	Н	H1	H2	W1	W2	(kg)
TOS150B63 7 -61	3.7	150	693	497	196	402	395	176	219	926	1265	152	815	390	158



B - SERIES SEWAGE & WASTEWATER PUMPS

SAMPLE SPECIFICATIONS

1. SCOPE OF SUPPLY -

Furnish and install TSURUMI Model ______Submersible Pump(s). Each unit shall be capable of delivering _____GPM (_____m³/min) at _____Feet (_____m) TDH. The pump(s) shall be designed to pump waste water, sewage or effluent containing _____ inch (_____mm) diameter solids without damage during operation. The pump(s) shall be designed so that the shaft power required (BHP)/(kW) shall not exceed the motor rated output throughout the entire operating range of the pump performance curve. The pump discharge size shall Be____inch, (____mm).

2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) including pump casing, impeller, and discharge elbow shall be manufactured from gray cast iron, ASTM A48 CLASS 35. Unit(s) shall have a field adjustable and or replaceable, cast iron shear type wear plate or wear rings. 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 a discharge elbow with 150 lb. (10 kg/cm²) flat face flange and NPT companion flange. Impellers shall be of the solids handling design and shall be slip fit to the shaft and key driven. The pump casing shall incorporate an air relief valve.

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. Units 2 Hp. and above shall be fitted with a device that shall provide positive lubrication of top mechanical seal, (down to one third of the standard oil level). The device shall not consume any additional electrical power. Mechanical seals shall rated to preclude the incursion of water up to 42.6 PSI. (98.4 Ft.). Units shall have silicon carbide mechanical seal faces. Mechanical seal hardware shall be stainless steel.

4. MOTOR -

5. POWER CABLE AND CABLE ENTRANCE -

The pump power cable shall be suitable for submersible pump applications. Units up to 5 Hp., (except 150B63.7) shall be supplied with a cable entrance that incorporates built in strain relief, a one piece, three way mechanical compression seal with a fatigue reducing cable boot. On units 7.5 Hp. and above, and 150B63.7, the cable entrance shall incorporate built in strain relief, and combination three way mechanical compression sealing with a fatigue reducing/thermal expansion rubber boot. The power cable shall be field replaceable utilizing standard submersible pump cable. The cable entrance assembly on all units shall contain an anti-wicking block to eliminate water incursion into the motor due to capillary wicking should the power cable be accidentally