

# SUBMERSIBLE STAINLESS STEEL PUMP **SQ2**

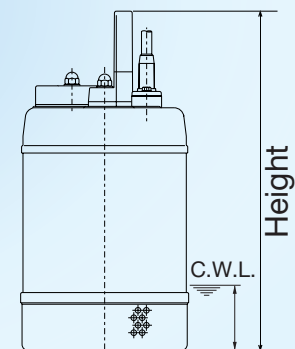
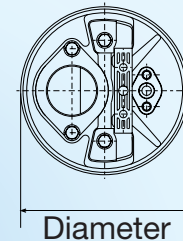
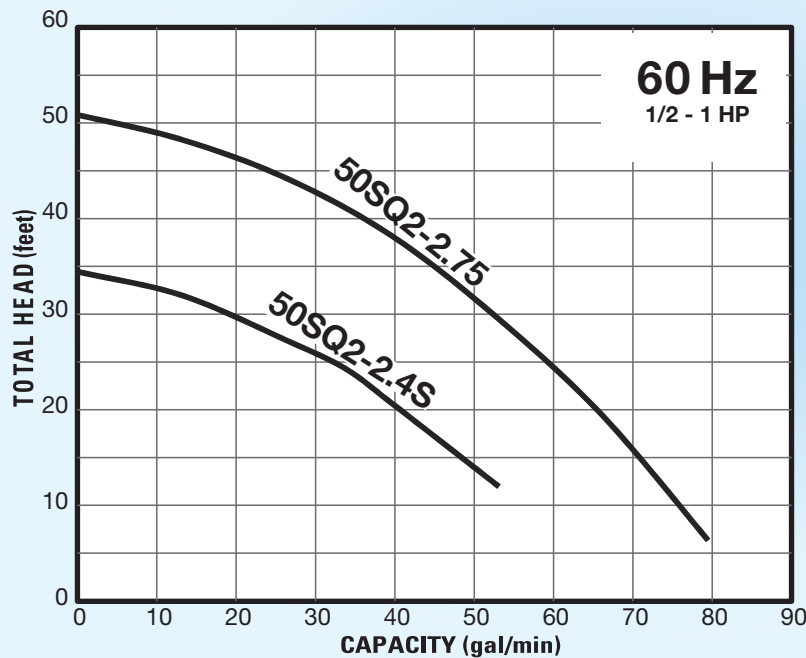
Newly designed SQ Series pumps, now **lighter and easier to carry!**



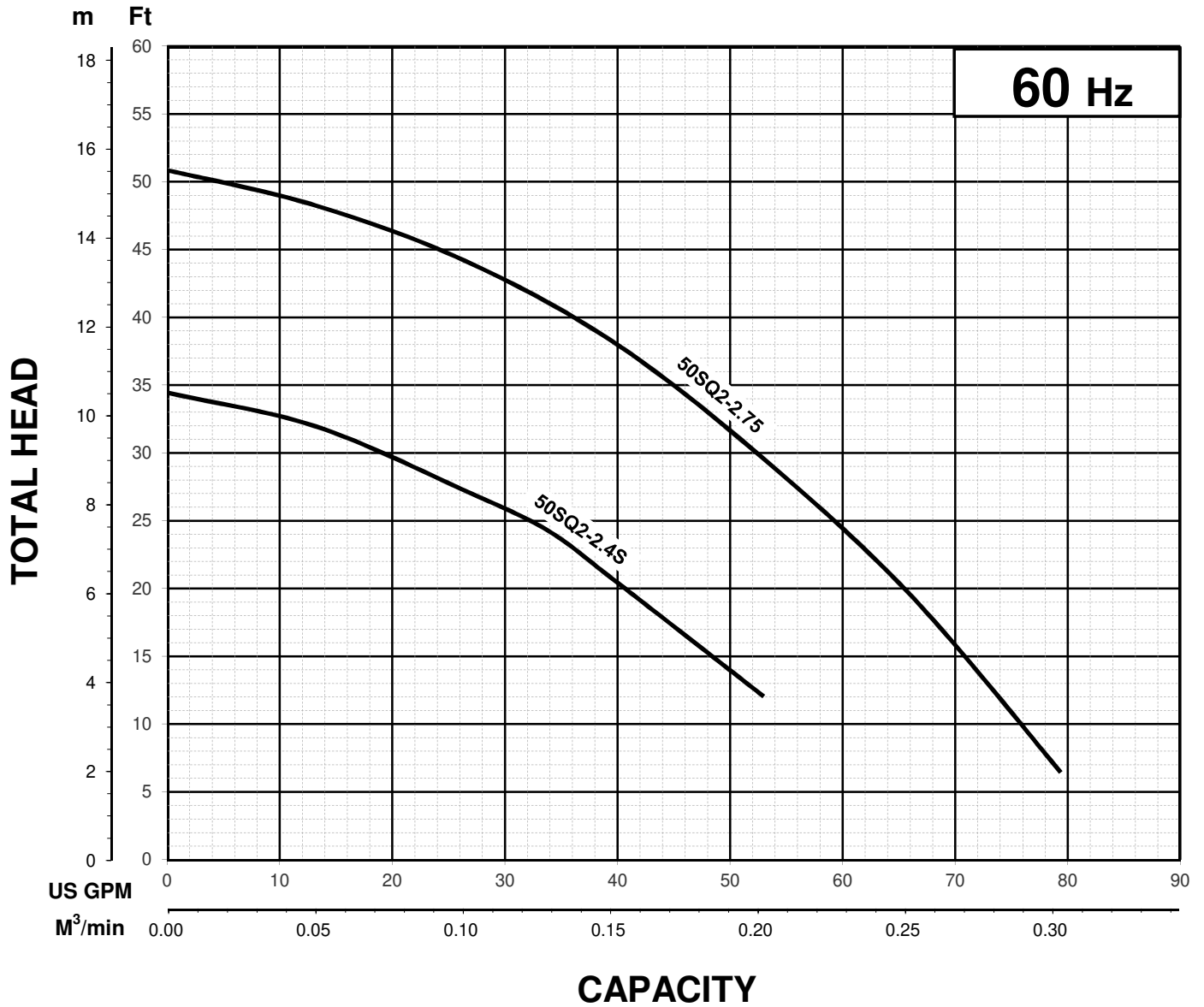
50SQ2-2.4S

50SQ2-2.75

- It is made of 304/316 stainless steel, Nitrile Butadiene Rubber and special resin to stand up to rust and corrosion, and sport a new structural design that makes them even lighter and easier to carry
- Non-toxic white mineral oil used to lubricate mechanical seals allows for use in food / agriculture industries
- The flow-through design and heat resistant silicon carbide mechanical seals Built-in motor protector
- Designed to fit into an 8-inch pipe



MODEL	MOTOR SPECIFICATIONS								Discharge Size (inch)	DIMENSION		Max. Solids Dia. (inch)	Continuous Running Water Level C.W.L. (in.)	Pump Weight (lbs.)	
	Motor Output (HP)	Phase	Rated Current (A)							RPM	Diameter (in.)				Height (in.)
			Single phase		Three phase										
			115V	230V	208V	230V	460V	575V							
50SQ2-2.4S	1/2	Single	5.1	2.9	—	—	—	—	3361	2	7 1/16	14 7/16	0.236	2 3/8	23
50SQ2-2.75	1	Three	—	—	3.4	3.5	2.0	1.5	3320	2	7 1/16	15 3/16	0.236	2 3/8	26

**TSURUMI PUMP****SQ - SERIES****ALL 304 SS - DEWATERING PUMPS****PERFORMANCE  
RANGE****GROUP PERFORMANCE RANGE****Note**

Ex.

Jun-21

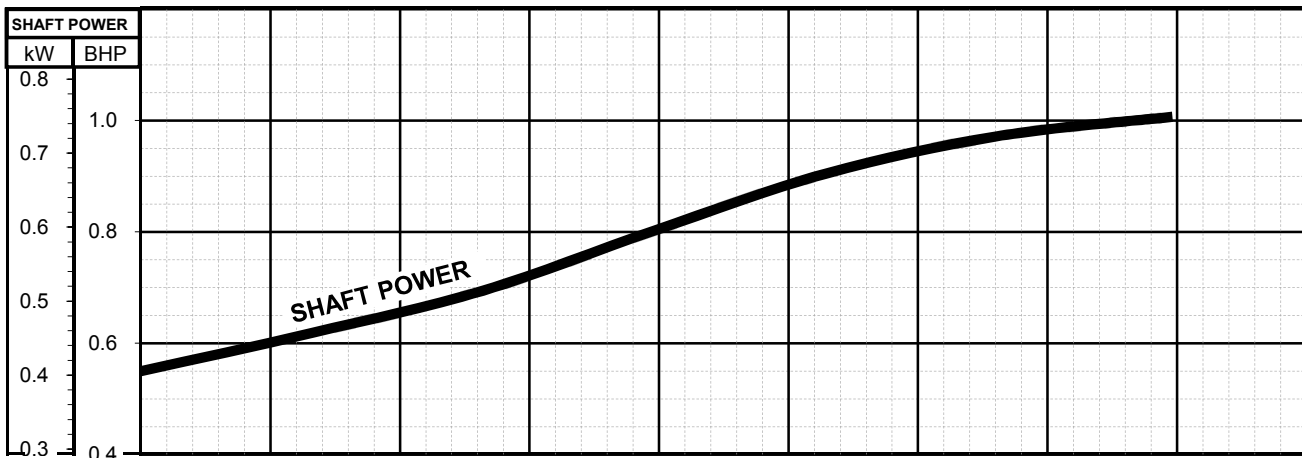
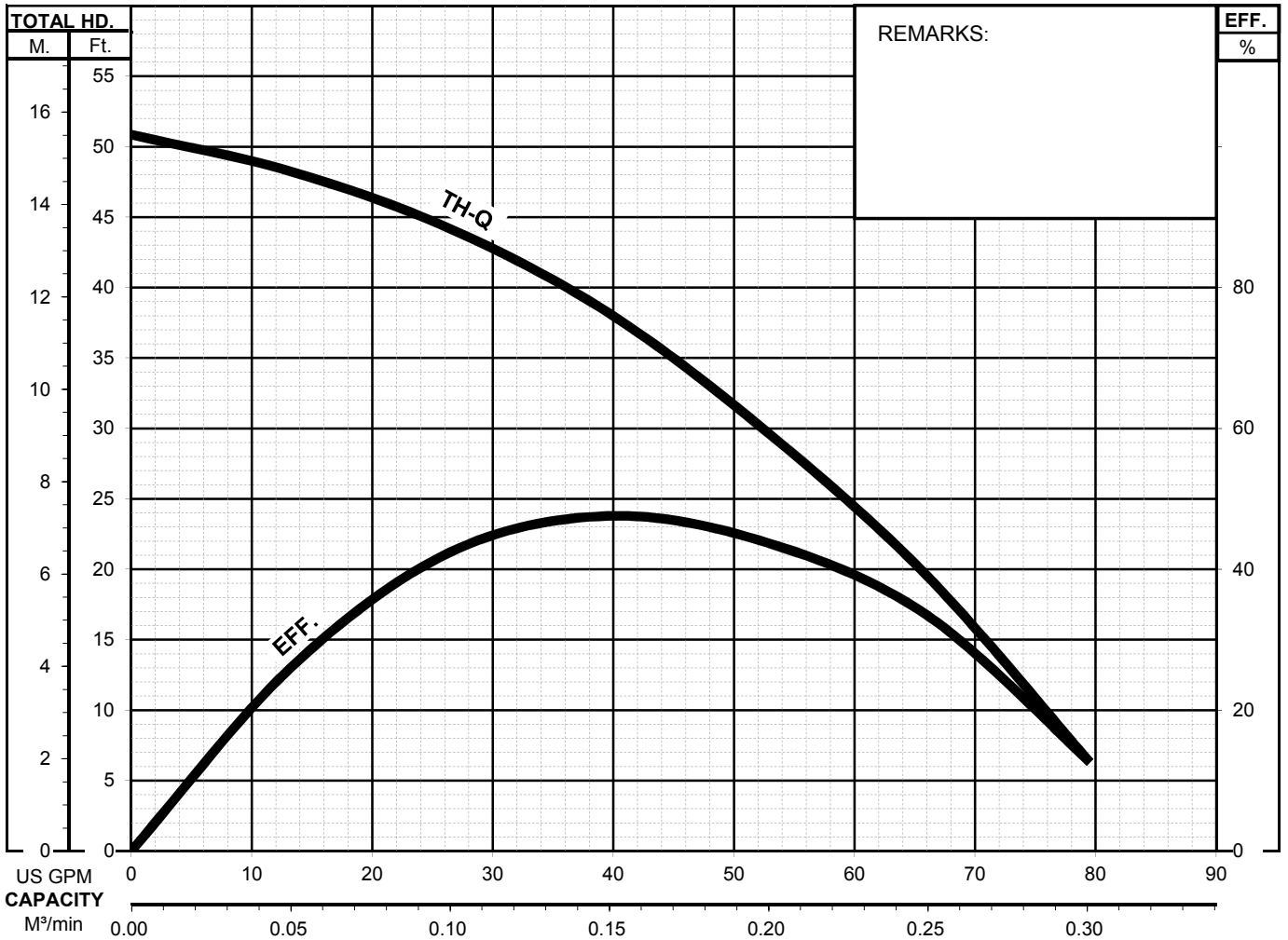
**TSURUMI PUMP**

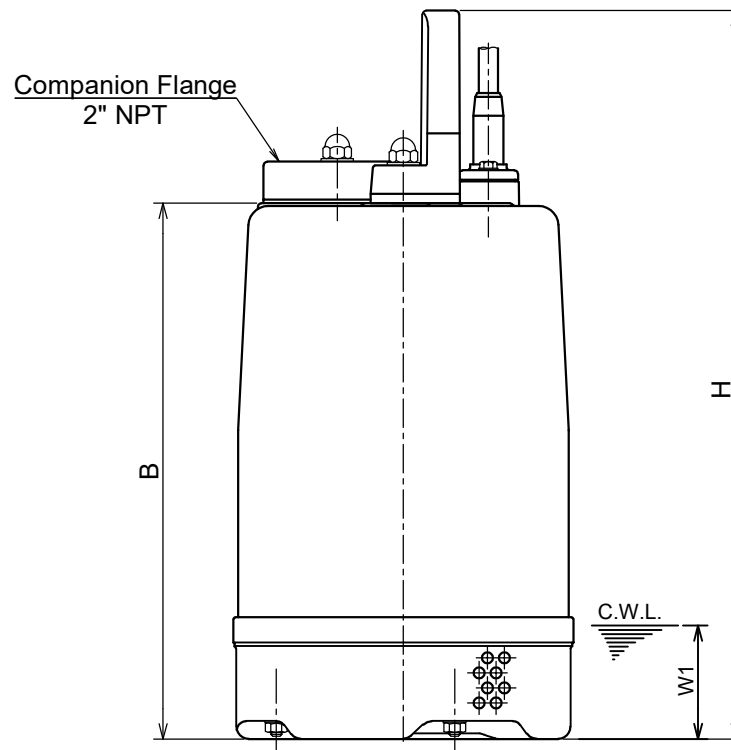
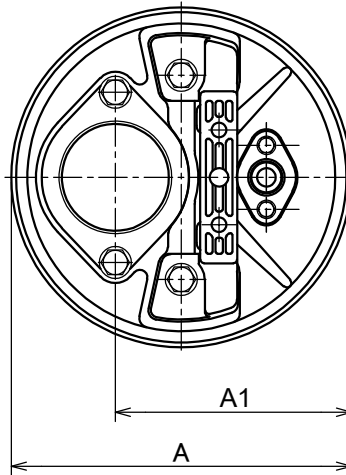
# SQ - SERIES

## STAINLESS STEEL - DEWATERING PUMPS

**PERFORMANCE**  
**CURVE**

MODEL	BORE	HP	kW	RPM	SOLIDS DIA.	LIQUID	SG.	VISCOSITY	TEMP.
50SQ2-2.75-61	2"/50mm	1	0.75	3320	0.236"/6mm	Water	1.0	1.123cSt.	60°F
PUMP TYPE	PHASE	VOLTAGE	AMPERAGE		HZ	STARTING METHOD		INS. CLASS	
Stainless Steel - Dewatering Pump	3	208-230/460/575	3.4-3.5 / 2.0 / 1.5		60	Direct On Line		E	
CURVE No.	DATE	PHASE	VOLTAGE	AMPERAGE	HZ	STARTING METHOD		INS. CLASS	
-	-	-	-	-	-	-		-	



**TSURUMI PUMP**
**SQ - SERIES**  
**STAINLESS STEEL - DEWATERING PUMP**
**DIMENSIONS****50SQ2-2.4S-61****50SQ2-2.75-61**

C.W.L. :Continuous running Water Level

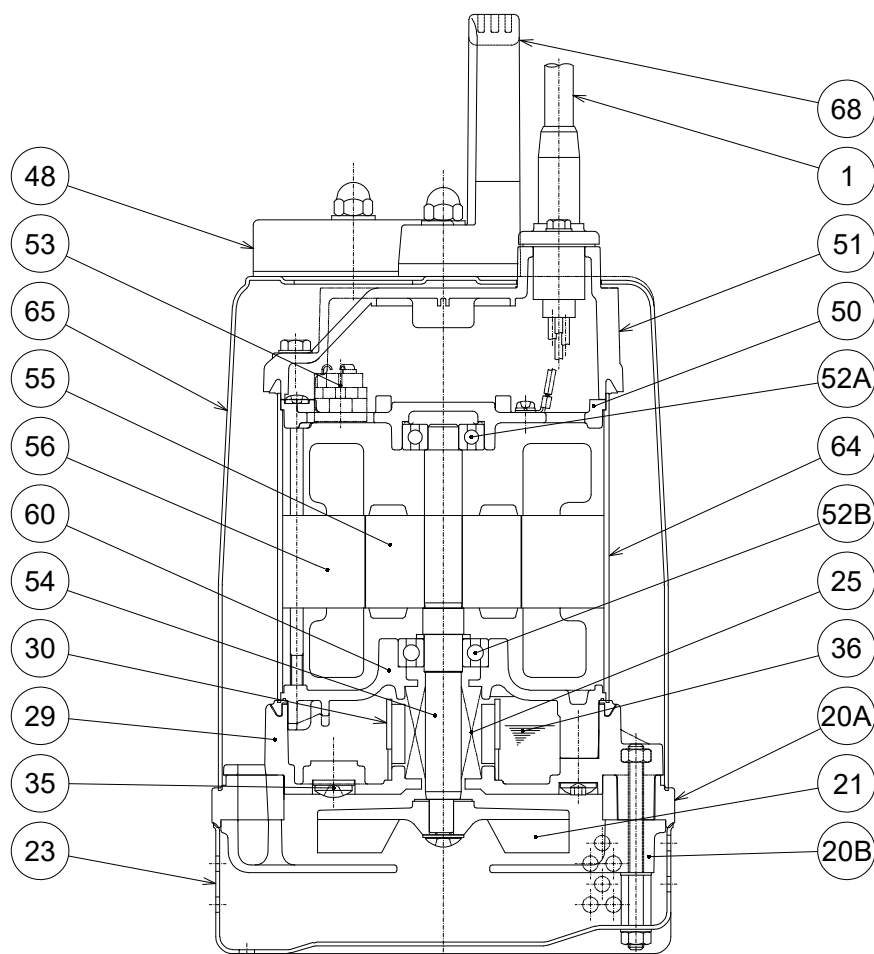
**DIMENSIONS:USCS (Inch)**

Model	HP	NOM. SIZE	Pump & Motor				C.W.L. W1	*Wt. (lbs.)
			A	A1	B	H		
50SQ2-2.4S-62	1/2	2"	7 1/16	4 15/16	10 3/8	14 7/16	2 3/8	23
50SQ2-2.75-62	1	2"	7 1/16	4 15/16	11 3/16	15 3/16	2 3/8	26

**DIMENSIONS:METRIC (mm)**

\*Excluding Cable

Model	kW	NOM. SIZE	Pump & Motor				C.W.L. W1	*Wt. (kg)
			A	A1	B	H		
50SQ2-2.4S-62	0.40	50	180	125	264	366	60	10.5
50SQ2-2.75-62	0.75	50	180	125	284	386	60	12

**TSURUMI PUMP**
**SQ - SERIES**  
**STAINLESS STEEL - DEWATERING PUMPS**
**SECTIONAL VIEW****50SQ2-2.75-61**

ITEM#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED EN CODE	Q'TY
1	Power Cable	PVC Sheath AWG16/4-32ft			1
20A	Upper Pump Casing	Nitrile Butadiene Rubber			1
20B	Lower Pump Casing	Stainless Steel Casting	A743 CF-8	17445 G-X6 CrNi 18-9	1
21	Impeller	PPO Plastic w/GF20			1
23	Strainer Stand	Stainless Steel	S 30400	1.4301	1
25	Mechanical Seal	Silicon Carbide / W-14HL			1
29	Oil Casing	PPS Plastic w/(GF+MD)50			1
30	Oil Lifter	PBT Plastic w/(GF+MD)40			1
35	Oil Plug	Stainless Steel	S 30400	1.4301	1
36	Lubricant	White Oil ISO VG32			
48	Companion Flange	PBT Plastic W/GF30 / NPT 2"			1
50	Motor Bracket	Aluminum Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
51	Motor Head Cover	PPS Plastic w/(GF+MD)50			1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6302ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	S 30400	1.4301	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Aluminum Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
64	Motor Housing	Stainless Steel	S 30400	1.4301	1
65	Outer Cover	Stainless Steel	S 31600	1.4401	1
68	Handle	ABS Resin			1


**TSURUMI PUMP**

**SQ - SERIES**  
**ALL 304 SS - DEWATERING PUMPS**

**SAMPLE**  
**SPECIFICATIONS**

**1. SCOPE OF SUPPLY -**

Furnish and install TSURUMI Model \_\_\_\_\_ Submersible Pump(s).  
Each unit shall be capable of delivering \_\_\_\_\_ GPM ( \_\_\_\_\_ m<sup>3</sup>/min) at \_\_\_\_\_ Feet ( \_\_\_\_\_ m) TDH.  
The pump(s) shall be designed to pump waste water, 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. Pump(s) shall be of the top discharge, flow through design.

**2. MATERIALS OF CONSTRUCTION -**

Construction of all parts of the pumping unit(s) shall be heavy gage fabricated 304 stainless steel. Impellers shall be of the multi-vane semi-open solids handling design, and shall be slip fit to the shaft and key driven. Internal and external surfaces coming into contact with the pumpage shall not require a protective coating. All exposed fasteners shall be stainless steel. All units shall be furnished with 2" NPT discharge connector. All surface materials and lubricant shall be non-toxic.

**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. 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 \_\_\_\_\_ HP., \_\_\_\_\_ kW., \_\_\_\_\_ V., 60 Hz. \_\_\_\_ 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 protection. Motor shaft shall be 304 stainless steel, 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 -**

The pump power cable shall be suitable for submersible pump applications. The cable entrance shall incorporate built in strain relief, and a one piece, three way mechanical compression seal with a fatigue reducing cable 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.