



HS - SERIES

SEMI-VORTEX - WASTEWATER PUMP - WITH AGITATOR

SPECIFICATIONS

■ FEATURES

1. Semi-vortex urethane rubber impeller with agitator suspends solids and allows for pumping of sand and stringy material.
2. Highly efficient, continuous duty air-filled, copper wound motor with class E 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.
4. Double inside mechanical seals with silicon carbide faces running in an oil filled chamber provide for one the most durable seal designs available.
5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours

provide for extended operational life.

HSZ : Provides automatic operation by utilizing a simple float switch.

HSD : Compact single phase pump fit for use in slurry dewatering in foundation works.

■ APPLICATIONS

1. Residential, commercial, industrial wastewater and site drainage.
2. Decorative waterfalls and fountains.
3. Raw water supply from lakes or rivers.
4. Sediment removal from small sumps or basins.



■ 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

■ STANDARD

2 - 3 "NPT (50 - 80 mm)
1/2 - 1HP. (0.40 - 0.75kW)
13.2 - 61.0 GPM. (0.05 - 0.23 m³/min)
13.1 Ft. - 62.0 Ft. (4.0 - 18.9 m)
104° F. (40° C.)

Cast Iron , Ductile Cast Iron(HSD)
Urethane Rubber ,
High Chrome Cast Iron(HSD)
403 Stainless Steel
Aluminum alloy
304 Stainless Steel
Silicon Carbide
NBR (Nitrile Butadiene Rubber)
Semi-vortex, solids handling
0.276 - 0.393" (7.0 - 10.0mm)

Prelubricated, Double Shielded

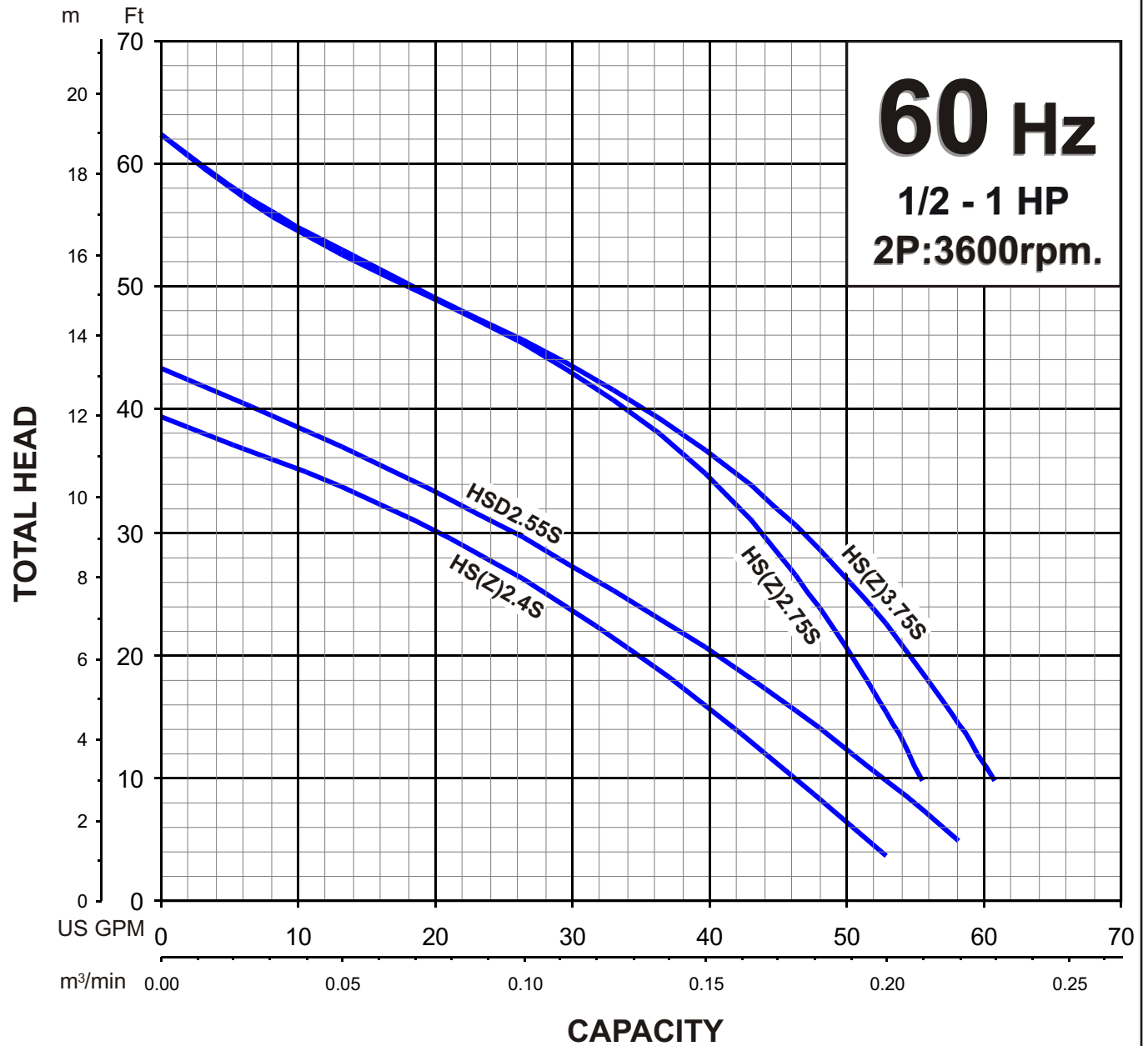
Air Filled, 3600 RPM, 60 Hz.
115 / 230V., 1 Phase
Class E

Submersible Power Cable
20 - 32' (6.2 - 10m)

Manual , Automatic(HSZ)

■ OPTIONS

Length as Required,
TS-301 Float Switch

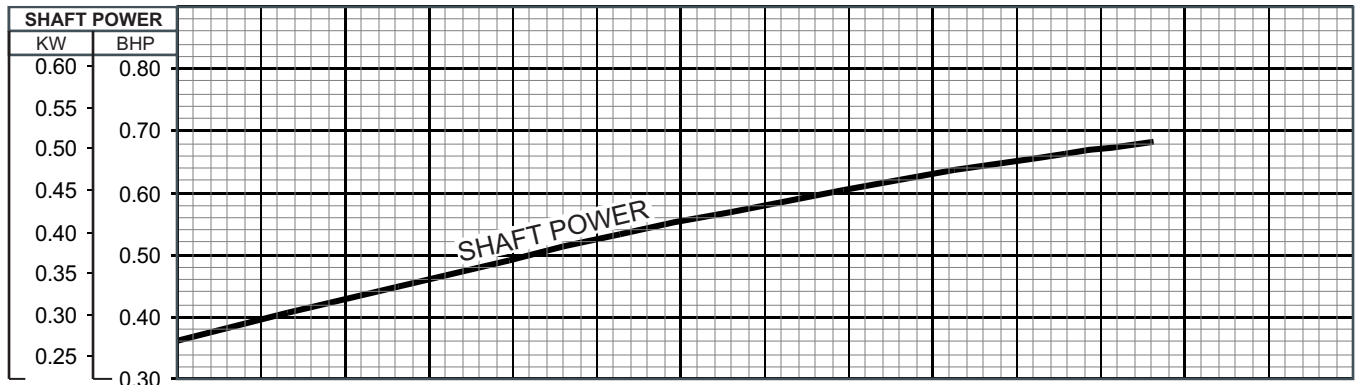
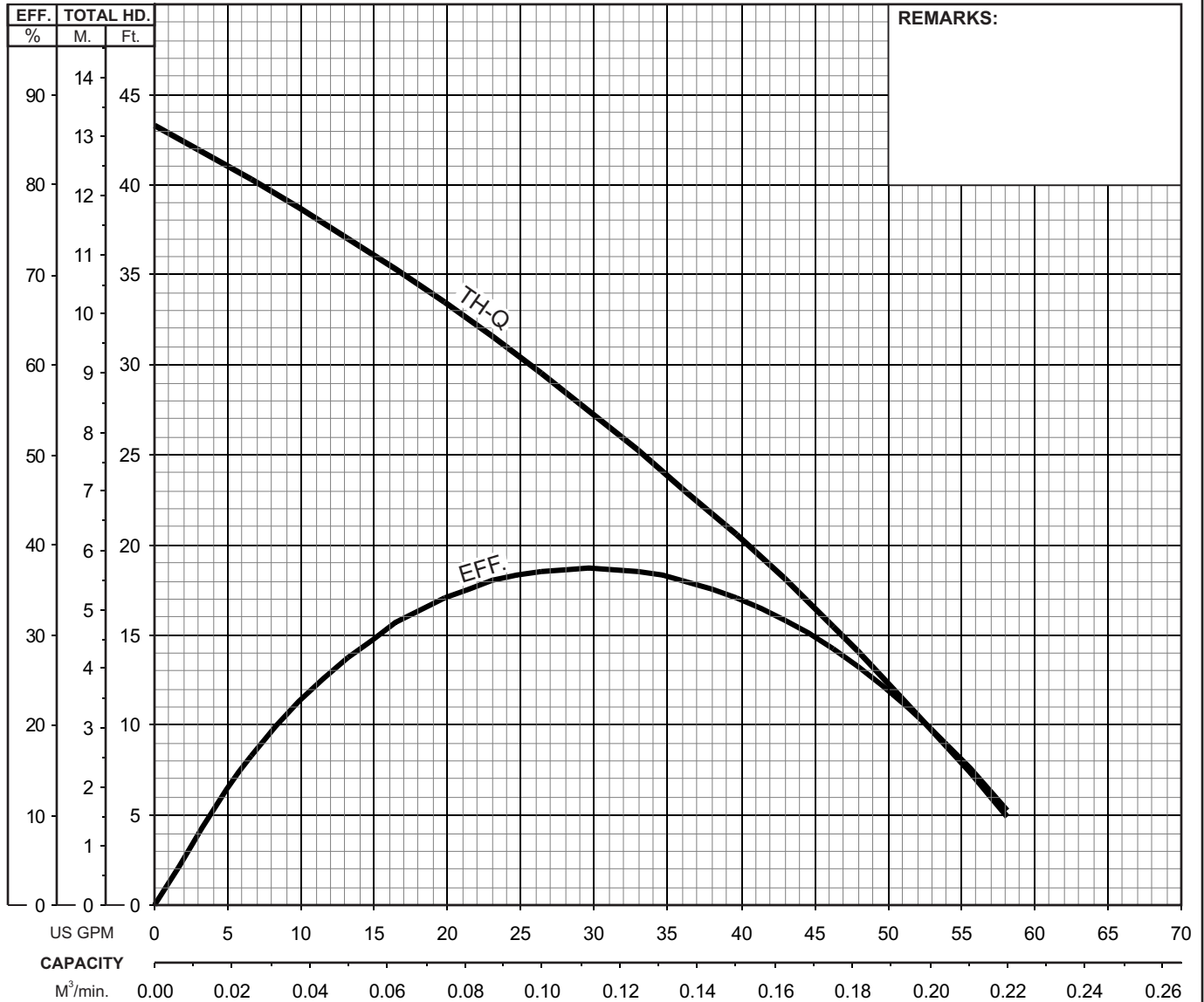
**TSURUMI PUMP****HS - SERIES**
SEMI-VORTEX - WASTEWATER & DEWATERING PUMP**PERFORMANCE**
RANGE**GROUP PERFORMANCE RANGE**

**TSURUMI PUMP**

HSD2.55S - 62 **SEMI-VORTEX - DEWATERING PUMP**

PERFORMANCE **CURVE**

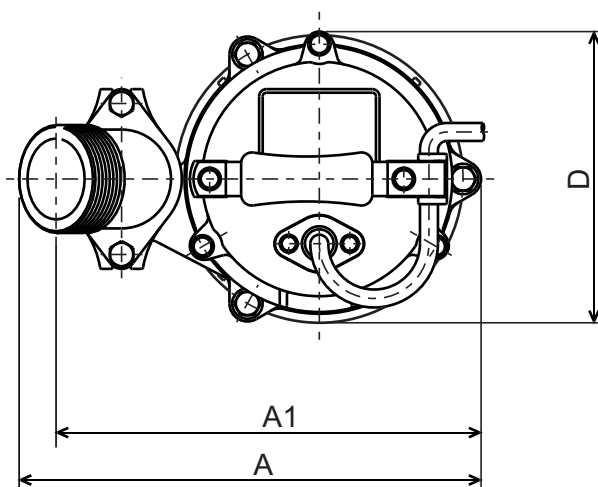
MODEL		BORE	HP	KW	RPM	SOLIDS DIA		LIQUID		SG.	VISCOSITY	TEMP.
HSD2.55S-62		2"/50mm	0.75	0.55	3410	0.393"/10mm		Water		1.0	1.123 cSt.	60°F
PUMP TYPE		PHASE	VOLTAGE		AMPERAGE		HZ	STARTING METHOD			INS. CLASS	
Semi-Vortex - Dewatering Pump		Single	110/115/120, 230		7.8 / 7.5 / 7.2 , 4.0		60	Capacitor Start			E	
CURVE No.	DATE	PHASE	VOLTAGE		AMPERAGE		HZ	STARTING METHOD			INS. CLASS	
-	-	-	-		-		-	-			-	



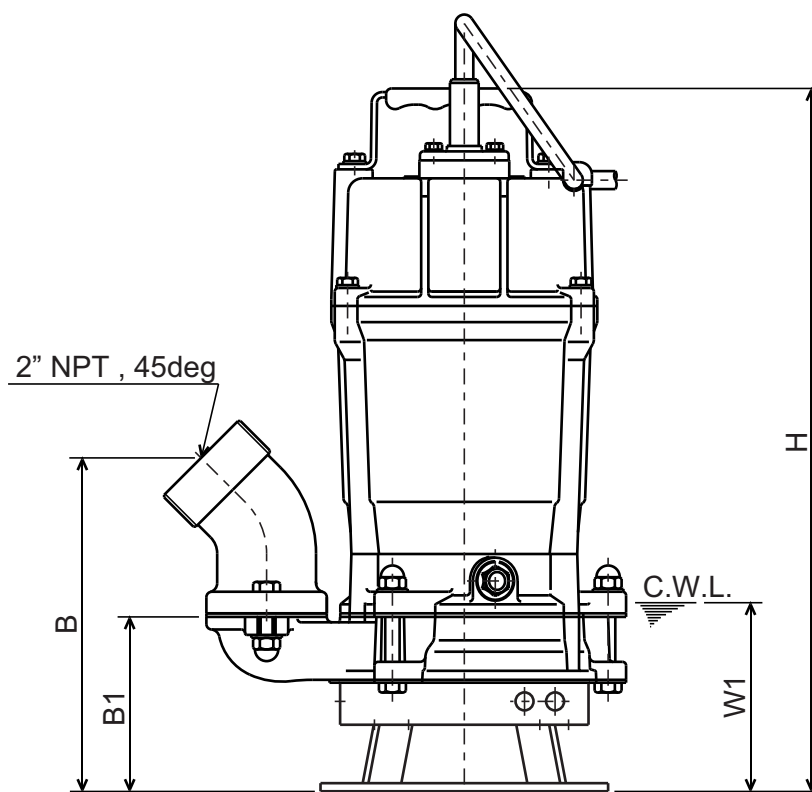


HSD2.55S - 62 **SEMI-VORTEX - DEWATERING PUMP**

DIMENSIONS



HSD2.55S-62



C.W.L. : Continuous running Water Level

DIMENSIONS:USCS (Inch)

Model	HP	NOM. SIZE	Pump & Motor						C.W.L.	Wt. (lbs.)
			A	A1	B	B1	D	H	W1	
HSD2.55S-62	3/4	2"	9 3/4	7 7/8	6 7/8	3 13/16	6 3/8	15 3/8	4 1/8	33

DIMENSIONS:METRIC (mm)

Model	kW	NOM. SIZE	Pump & Motor						C.W.L.	Wt. (kg)
			A	A1	B	B1	D	H	W1	
HSD2.55S-62	0.55	50	248	200	175	97	162	391	105	15.0

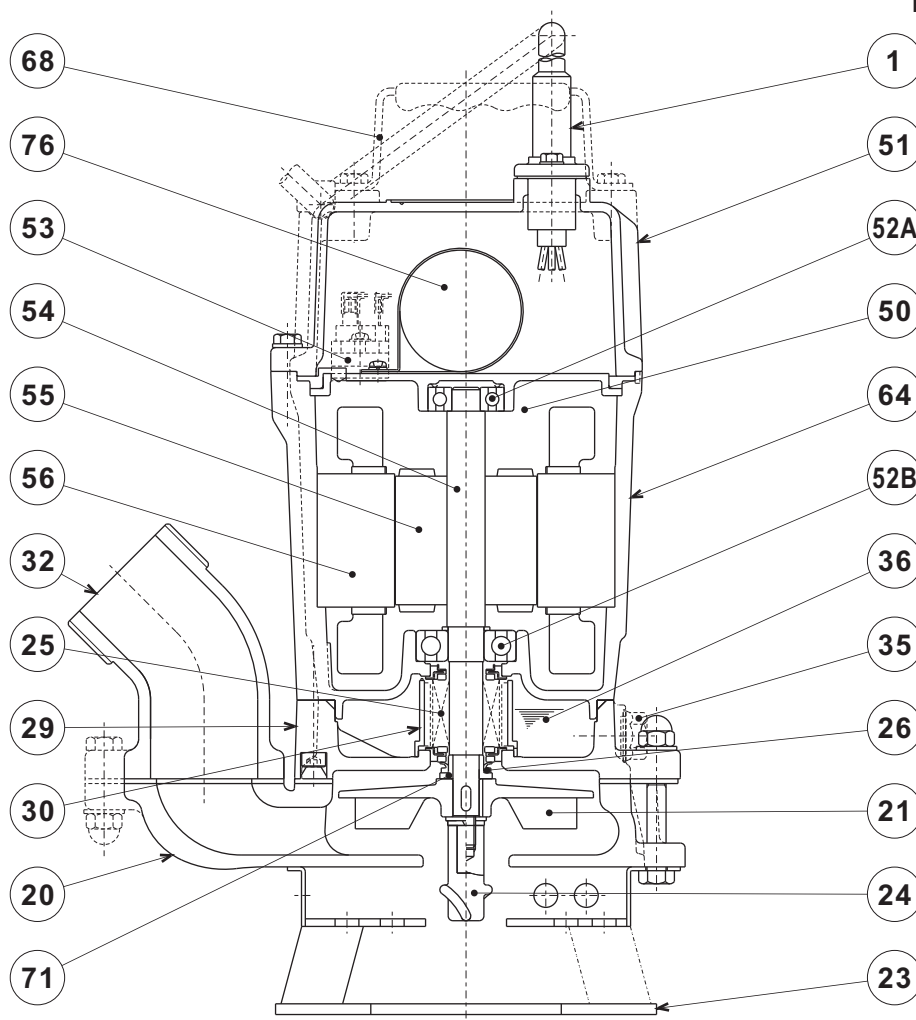


HSD2.55S - 62

SEMI-VORTEX - DEWATERING PUMP

SECTIONAL VIEW

HSD2.55S-62



ITEM#	DESCRIPTION	MAIN MATERIAL / NOTE	RELATED ASTM, AISI CODE	RELATED EN CODE	Q'TY
1	Power Cable	PVC Sheath AWG16/3-32ft			1
20	Pump Casing	Ductile Cast Iron	A536 100-70-03	EN 1563 GJS-700-2	1
21	Impeller	High Chrome Cast Iron	A532 Class III Type A	DIN 1695 G-X260Cr27	1
23	Strainer Stand	Steel	A283 Grade D	EN 10025 S275	1
24	Agitator	High Chrome Cast Iron	A532 Class III Type A	DIN 1695 G-X260Cr27	1
25	Mechanical Seal	Silicon Carbide / W-14VL			1
26	V-Ring	Nitrile Butadiene Rubber			1
29	Oil Casing	Cast Iron	A48M Class30B	EN 1561 GJL-200	1
30	Oil Lifter	PBT Resin			1
32	Discharge Connection	Cast Iron / NPT 2"	A48M Class30B	EN 1561 GJL-200	1
35	Oil Plug	Stainless Steel	S 30400	1.4301	1
36	Lubricant	Turbine Oil ISO VG32 or SAE10W -20			
50	Motor Bracket	Aluminum Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
51	Motor Head Cover	Aluminum Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
52A	Upper Bearing	#6201ZZC3			1
52B	Lower Bearing	#6302ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	S 40300	1.4000	1
55	Rotor				1
56	Stator				1
64	Motor Housing	Aluminum Alloy Die Casting	B85 383.0	EN 1706 AC-46100	1
68	Handle	Steel (Hot Rolled) + NR Rubber	A1011	EN 10111	1
71	Shaft Sleeve	Stainless Steel	S 30400	1.4301	1
76	Capacitor				1