



Horizontal Openwell Submersible Pumps

Specification

Capacities up to 60 m³ / hr
Power range up to 10 HP
Heads to 50 m
350 to 440 Volt operation



Benefits

High grade Cast Iron Construction for long life
Simple Hydraulic Design
Easy to install & service
Standard speed operation for long life
High grade thrust bearing



Vertical Openwell Submersible Pumps

Benefits

High grade Cast Iron Construction for long life
Maximum operating range & efficiency
Easy to install & service
Standard speed operation for long life
High grade thrust bearing

Applications

Agriculture & Farming
Public Water supply
Drip & Sprinkler Irrigation
High head operation
Storage Tank filling

Specification

Capacities up to 180 m³ / hr
Power range 3 HP to 50 HP
Heads to 200 m
350 to 440 Volt operation



Proven
Performance

Sigmafos

Pumps

Sigmafos started its operation in 1991 as manufacturers of Submersible and Monoblock Pumps for domestic, Industrial and Agricultural applications. The company using bearings and allied products which have been well received in the market and own the trust of leading brands of Pumps.

We are using techniques and strategies for advanced product in water technology. And we have using SPM like Rapid Prototyping CNC Machines Tooling and laser sintering for the manufacture of specific component in our submersible pump products.

Today Sigmafos is a renowned name in the field with a network of branches across the country. What its more, Sigmafos has spread the wings further and exports its products to several countries.

The expensive infrastructure and production environment accredited with ISO 9001 quality certification showcases

the very latest in the field, as befitting the manufacturer of an internationally accepted brand.



Types	Power Rating	Suitable for
Submersible pumpsets	0.50 HP to 100 HP	4" to 10" boreholes
Submersible monosets	0.25 HP to 10 HP	
Domestic pumpsets	0.25 HP to 1 HP	

Applications

- Irrigation
- Domestic
- Boosting
- Mining
- Industrial
- Fountains
- Marine
- Pressurized pumping
- Gardening
- Cooling towers

Pump parts

Low moment of inertia due to the reduced weight of the rotating parts. Performance of the pump will remain constant and stable.

Part Name	Material	Grade
Suction housing	Cast Iron	FG 200
Outer Case	Stainless Steel	304
Discharge head with Sealing O-ring	Cast Iron	FG 200
Pump shaft	Stainless Steel	410
Coupling to motor	Stainless Steel	410
Diffuser	Cast Iron	FG 200
Impeller	Stainless Steel	304
Cable Guard	Stainless Steel	304





Wires



Types	Power Rating	Application
HRPVC Insulate / Triple polytape Winding wire	0.6 mm to 3.0 mm nominal Conductor diameter	3" to 12" boreholes

Bearings

Carbon Bearings & Radial Bearings for Submersible motors

Carbon Thrust / Radial Bearing Assemblies are manufactured for submersible motors to meet the dynamic / varying load conditions of bore-wells. The range of products starts from 0.5 HP to 200 HP and are suitable for 3" to 12" submersible motors. Based on customer's need, the Carbon Thrust Bearing Pads / Bushes can be given in either resin impregnated or metal impregnated form.



Features

- High Wear Resistance
- Lower Co-efficient of Friction
- Self Lubricating
- Low Thermal Expansion
- Better Thermal Conductivity
- Self Aligning segments to withstand fluctuating loads
- Improved efficiency due to the inherent properties of Carbon, high hardened, lapped and polished Stainless Steel Segments resulting in longer life.

Self Priming Mini Monoblock Pumps

Performance

PUMP MODEL	KW	HP	TYPE	PUMP SIZE (IN MM)	SUCTION LIFT (IN METRES)	TOTAL HEAD IN METRES / FEET												
						6	9	12	15	18	21	24	27	30	33	40	45	50
						20	30	40	50	60	70	80	90	100	110	130	145	163
DISCHARGE IN LITRES PER HOUR																		
SFSP 25	0.18	0.25	SELF PRIMING	25x25	8.0	1950	1800	1650	1500	1350	500							
SFSP 50	0.37	0.5	NON SELF PRIMING	25x25	8.0	2300	2150	2000	1850	1600	1500	1300	1100	900				
SFSP 51	0.37	0.5	SELF PRIMING	25x25	8.0	2300	2150	2000	1850	1700	1500	1300	1200	1100	750			
SFSP 52	0.37	0.5	SELF PRIMING	25x25	8.0	2400	2100	1920	1680	1560	1460	1320	1250	1200	1050			
SFSP 53	0.37	0.5	SELF PRIMING	25x25	8.0	2800	2650	2550	2300	2150	2050	1800	1650	1550	1080			
SFSP 100	0.75	1.0	SELF PRIMING	25x25	8.0	2900	2720	2700	2660	2630	2600	2500	2350	2250	2150	1800	1400	1100

Applications

Domestic water supply
Municipal water supply
Gardening and Automobile washing
Fountains
Lawn sprinkler
Pressure boosting system
Multi-storied buildings

Structural Characteristics

SS 41 Stainless Steel Shaft
Forged brass Impeller
Aluminium motor frame for better heat dissipation
Dynamically balanced rotating parts
Double sealed precision ball bearing
In built- thermal over load protector
Back pull out design for easy service

Technical Data

Power Range	0.18 kW -0.75 kW
Version	Single Phase 220-240 V, A.C. (PSC)
Frequency	50Hz
Speed	2900 rpm
Protection	IP-54
Insulation Clause	"B"
Duty Type	S1 (continuous)
Enclosure Type	TEFC



Self Priming Monoset Pumps

Performance

PUMP MODEL	KW	HP	TYPE	PUMP SIZE (IN MM)	SUCTION LIFT (IN METRES)	TOTAL HEAD IN METRES / FEET											
						5	10	15	20	25	30	35	40	45	50		
						18	33	48	66	87	100	118	130	145	163		
DISCHARGE IN LITRES PER HOUR																	
SF DMS 2	0.37	0.5	SELF PRIMING	25X25	8.0	2820	2400	2150	1750	1250	600						
SF DMS 3	0.75	1.0	SELF PRIMING	25X25	8.0	3750	3600	3100	2700	2250	1700	1400	600				

Technical Data

Power Range	0.37 kW -0.75 kW
Version	Single Phase 220-240 V, A.C.
Frequency	50Hz
Speed	2900 rpm
Insulation Clause	"B"
Duty Type	S1 (continuous)
Enclosure Type	TEFC

Special Features

High Efficiency
Low Power Consumption
Corrosion & abrasion free internals

Applications

Domestic water supply
Municipal water supply
Gardening
Bungalows
Housing Complex
Hospital



Material of Construction

Part Name : Material
Impeller : Bronze
Shaft : SS 410
Rotor : Aluminium Die Cast



ISO 9001: 2000
Reg. No. RQ91/4806

IS:8034



IS:9283



Sigmafos



Proven
Performance

Sigmafos
A trusted name in Water pump Industry