



OSWAL

Ushering in Prosperity

Agricultural & Industrial Range....

SUBMERSIBLE PUMPSET V-5 TO V-10 (WATER FILLED)



(125, 150, 175, 200, & 250 mm)





SUBMERSIBLE PUMPS

OSWAL submersible pumps & motors are well known for its quality, Reliability & excellent for all type of service purpose. **OSWAL** submersible pumps & motors are manufactured under supervision of highly qualified technical team with a stage wise rigid inspection procedure under TQM concepts. **OSWAL** team are well known for their excellent services after sales.

Application of Bore well submersible pumps are Hospitals, Water circulation systems, Water supply systems of Government, Irrigation, Farms & Drip & sprinkler irrigation, Gardening, Nurseries, Domestic water supply, Multi-storeyed Building & Industries & Hotels.

Salient feature of Bore well submersible pumps sets are Highly efficient & low power consumption, Vibration free, noiseless & Complete absence of suction trouble. **OSWAL** water filled submersible motors are easily rewind able & repair able. Less Maintenance operation due to water lubricated bearing. Vibration free & noiseless operation and world class design gives higher discharge & high efficiency. Easily repair able & maintainable.

OSWAL BORE WELL SUBMERSIBLE PUMPS conform to IS : 8034. SUBMERSIBLE MOTORS (WATER COOLED)

OSWAL Stator wound with procsynthetic copper wires, which are easily rewind able, Water lubricated & water-cooled. World class designed excellent performance thrust plate are used of S.S. / Carbon that can withstand thrust loads with minimum wear & tear more over it also creates a wedge of water between shoe and the disc so life cycle of thrust plate is increased Dynamically balanced rotor gives best efficiency and increase life of bush & motor.

OSWAL WATER FILLED COOLED SUBMERSIBLE MOTORS conform to IS : 9283.& Pump set confirm to IS : 8034.

Specification :

Details	125 mm	150 mm	175 mm	200 mm
Power Range	3 to 7.5 HP-1 Ph. 3 to 12.5 HP-3 Ph.	1.5 & 7.5 HP - 1 Ph. (Incorporated with Thermal overload Protector**) 3.0 to 25 HP - 3Ph.	5 - 25 HP-3 Ph.	7.5 to 75 HP-3 Ph.
Version	200 - 240V, A.C.; 50Hz; - 1 Ph. 380 - 415V, A.C.; 50Hz; - 3 Ph.	200 - 240V, A.C.; 50Hz; - 1 Ph. 380 - 415V, A.C.; 50Hz; - 3 Ph.	380 - 415V, A.C.; 50 Hz; - 3Ph.	380 - 415V, A.C.; 50 Hz; - 3Ph.
Speed	2880 rpm.	2880 rpm.	2880 rpm.	2880 rpm.
Flow Rate	45 - 650 lpm.	45 to 1320 lpm.	300 to 1500 lpm.	300 to 3600 lpm.
Total Head Range	15 mtr. to 300 mtr.	10 to 500 mtrs.	12 to 90 mtr.	12 to 275 mtr.
Outlet Size in Inches/mm	2", 2 1/2" & 3" / 50, 65 & 75 mm.	2", 2 1/2", 3 & 4 / 50, 65, 75 & 100 mm.	4" / 100 mm.	3, 4, 5 & 6 / 75, 100, 125 & 150 mm.
Degree of protection	IP 58	IP 58	IP 58	IP 58
Direction of Rotation	CCW - 1 Ph. & CCW, CW - 3 Ph.	CCW - 1Ph. & CCW, CW - 3Ph.	CCW, CW - 3 Ph.	CCW, CW - 3 Ph.
Maximum outer diameter	121 mm	143 mm	162 mm	187 mm
Type of Duty	S1 (continuous)	S1 (continuous)	S1 (continuous)	S1 (continuous)
Thrust Load	1500 lps.	1.5 to 2 HP - 1500 lbs. & 12.5 to 35 HP - 3500 lbs.	5 to 10 HP - 1500 lbs. 12.5 to 20 HP - 3500 lbs.	7.5 to 20 HP - 3500 lbs. 25 to 100 HP - 10000 lbs.
Maximum cooling flow	0.15 m/sec.	0.16 m/sec.	0.16 m/sec.	0.16 m/sec.
Maximum starts per hour	12 times.	12 times.	12 times.	12 times.
Method of starting	Capacitor start and capacitor run (CSCR) - 1 Ph. Direct on line (D.O.L) - 3 Ph.	Capacitor start and capacitor run, - 1Ph. 1.5 to 7.5 HP (D.O.L) - 3 Ph. 10 to 25 HP - S.D.	5 - 7.5 HP (D.O.L) 10 - 20 HP (S.D)	7.5 HP (D.O.L) 10 to 75 HP (S.D)
Cable connection	Permanently connected & sealed PVC insulated 3-core flat cable.	Permanently connected & sealed PVC insulated 3-core flat cable.	Permanently connected & sealed PVC insulated 3-core flat cable.	Permanently connected & sealed PVC insulated 3-core flat cable.

Material of Construction - Pump

Part name	Mix flow- Type - Os 125 mm	Radial flow Type-K 125 mm	Type-K- Radial Flow 150 mm	Type-S- Radial Flow 150 mm	Type- Mix Flow 150 mm	Type-C- 175 mm	Type-R Radial Flow 200 mm	Type-OSO J Mix Flow 200 mm
Check valve housing	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.
Check valve	S.S. - 304	S.S. - 304	S.S. - 304	S.S. - 304	S.S. - 304	S.S. - 304	S.S. - 304	S.S. - 304
Impeller	S.S. - 304/410	S.S. - 410/304	S.S. - 304/410	S.S. - 304/410	S.S. - 304/410	S.S. - 304/410	Bronze/S.S.-304/410	Bronze/S.S.-304/410
Diffuser	C.I.	Noryl*	Noryl*	Noryl*	C.I.	C.I.	C.I.	Bronze
Diffuser Chamber	C.I.	C.I. / S.S.	C.I.	S.S. - 304	C.I.	C.I.	C.I.	S.S. - 304
Pump Shaft	S.S. - 410/431	S.S. - 410/431	S.S. - 410/431	S.S. - 410/431	S.S. - 410/431	S.S. - 410/431	S.S. - 410/431	S.S. - 410/431
Suction interconnector	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.
Coupling	S.S. - 410	S.S. - 410	S.S. - 410	S.S. - 410	S.S. - 410	S.S. - 410	S.S. - 410	S.S. - 410

Pumped Liquids

Clean, thin, non-aggressive, non-explosive, clear, cold, fresh non polluted & without abrasives water having a below technical characteristics.

Maximum Liquid Temperature	33°C (max.)
Permissible amount of sand	25 gm/m ³ (max)(100mm) 50 gm/m ³ (max.)(125-200mm)
Chlorine ion density	500 ppm (max.)
Allowable solids	3000 ppm (max.)
Viscosity	1.75 x 10 ⁶ m ² /sec (max.)
Turbidity	50 ppm silica scale (max.)
pH value	6.5 to 8.5.
Specific gravity	1.004 (max.)
Hardness (drinking water)	300 (max.)

Material of Construction - Motor

Part Name	M.O.C.
Upper & lower Housing	C.I.
Stator Shell	S.S. - 304
Shaft	S.S. - 410
Journal Brush	Leaded Bronze
Thrust Base Assembly	S.S. - 410 & Graphite Carbon

Noryl* is the registered trade mark G.E. Plastics ** Optional

Other Ranges :



Exclusively manufactured by :

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