

Oswal Submersible V5-V10

Water-filled borewell submersible pumpsets for 125, 150, 175 and 200 mm bores

AT A GLANCE

- Water-filled, water-lubricated, rewindable motors
- 125 · 150 · 175 · 200 mm borewells
- 1.5-75 HP, single- and three-phase
- Flow 45-3600 L/min
- Head up to 500 m
- Pumps to IS 8034 · motors to IS 9283



V5-V10

Agricultural & industrial range

Ushering in prosperity · V5 · V6 · V7 · V8 bore sizes

125-200 mm

borewell size

1.5-75 HP

power range

3600 L/min

max. flow

500 m

max. head

MANUFACTURED BY

Oswal Pumps Ltd.

Oswal Estate, NH-1, Kutail Road, P.O. Kutail,
District Karnal - 132037 (Haryana) India

ISO 9001:2015

SALES / WHATSAPP

+91-98962-66691

TOLL-FREE

1800-120-1882

E-MAIL

info@oswalpumps.com

WEB

www.oswalpumps.com

SUBMERSIBLE PUMPSETS · WATER FILLED

Borewell submersibles for 125–200 mm bores

Oswal submersible pumps and motors are well known for their quality, reliability and excellence in every type of service. They are manufactured under the supervision of a highly qualified technical team with stage-wise rigorous inspection under TQM concepts, and are backed by excellent after-sales service.

Applications include hospitals, water-circulation systems, government water-supply schemes, irrigation, farms, drip and sprinkler irrigation, gardening, nurseries, domestic water supply, multi-storeyed buildings, industries and hotels.

Efficient & economical

High efficiency and low power consumption, with world-class designs for higher discharge.

Quiet, vibration-free

Dynamically balanced rotor; vibration-free, noiseless running with complete absence of suction trouble.

Specification

Details	125 mm (V5)	150 mm (V6)	175 mm (V7)	200 mm (V8)
Power range	3–7.5 HP 1-ph 3–12.5 HP 3-ph	1.5–7.5 HP 1-ph ** 3–25 HP 3-ph	5–25 HP 3-ph	7.5–75 HP 3-ph
Supply	200–240 V AC 50 Hz 1-ph 380–415 V AC 50 Hz 3-ph	200–240 V AC 50 Hz 1-ph 380–415 V AC 50 Hz 3-ph	380–415 V AC 50 Hz 3-ph	380–415 V AC 50 Hz 3-ph
Speed	2880 rpm	2880 rpm	2880 rpm	2880 rpm
Flow rate	45–650 L/min	45–1320 L/min	300–1500 L/min	300–3600 L/min
Total head range	15–300 m	10–500 m	12–90 m	12–275 m
Outlet size	2", 2½", 3" · 50, 65, 75 mm	2", 2½", 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 · CW 3-ph	CCW 1-ph · CW 3-ph	CCW · CW 3-ph	CCW · CW 3-ph
Max. outer diameter	121 mm	143 mm	162 mm	187 mm
Type of duty	S1 (continuous)	S1 (continuous)	S1 (continuous)	S1 (continuous)
Thrust load	1500 lb	1.5–2 HP: 1500 lb 12.5–35 HP: 3500 lb †	5–10 HP: 1500 lb 12.5–20 HP: 3500 lb	7.5–20 HP: 3500 lb 25–100 HP: 10,000 lb †
Min. cooling flow past motor	0.15 m/s	0.16 m/s	0.16 m/s	0.16 m/s
Max. starts per hour	12	12	12	12
Method of starting	CSCR (capacitor start & run) 1-ph · DOL 3-ph	CSCR 1-ph · DOL 1.5–7.5 HP 3-ph · star-delta 10–25 HP	DOL 5–7.5 HP · star-delta 10–20 HP †	DOL 7.5 HP · star-delta 10–75 HP
Cable connection	Permanently connected and sealed PVC-insulated 3-core flat cable	as 125 mm	as 125 mm	as 125 mm

** 150 mm single-phase motors incorporate a thermal overload protector. † See notes overleaf.

CONSTRUCTION

Materials, liquids and features

Material of construction — pump

Part	Mixed flow · Type OS 125 mm	Radial flow · Type K 125 mm	Radial flow · Type K 150 mm	Radial flow · Type S 150 mm	Mixed flow 150 mm	Type C 175 mm	Radial flow · Type R 200 mm	Mixed flow · Type OSOJ 200 mm
Check - valve housing	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.
Check valve	SS 304	SS 304	SS 304	SS 304	SS 304	SS 304	SS 304	SS 304
Impeller	SS 304/410	SS 410/304	SS 304/410	SS 304/410	SS 304/410	SS 304/410	Bronze / SS 304/410	Bronze / SS 304/410
Diffuser	C.I.	Noryl*	Noryl*	Noryl*	C.I.	C.I.	C.I.	Bronze
Diffuser chamber	C.I.	C.I. / SS	C.I.	SS 304	C.I.	C.I.	C.I.	SS 304
Pump shaft	SS 410/431	SS 410/431	SS 410/431	SS 410/431	SS 410/431	SS 410/431	SS 410/431	SS 410/431
Suction interconnector	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.	C.I.
Coupling	SS 410	SS 410	SS 410	SS 410	SS 410	SS 410	SS 410	SS 410

Noryl* is a registered trade mark of G.E. Plastics.

Material of construction — motor	
Upper & lower housing	C.I.
Stator shell	SS 304
Shaft	SS 410
Journal bush	Leaded bronze
Thrust-base assembly	SS 410 & graphite carbon

Water-lubricated motor

Water - filled, water - cooled motor — low maintenance, easy to rewind and repair.

Polyester-film copper winding

Stator wound with poly - synthetic insulated copper wire for easy rewinding.

Thrust bearing

S.S. / carbon thrust plate carries high thrust loads with minimum wear; a water wedge between shoe and disc extends thrust - plate life.

Standards

Borewell submersible pumps conform to **IS 8034**; water - filled submersible motors to **IS 9283**.

Pumped liquid — clean, cold, fresh, non-aggressive, non-explosive water without abrasives

Max. liquid temperature **33 °C**

Permissible sand **25 g/m³ (100 mm) · 50 g/m³ (125–200 mm)**

Chloride - ion density **500 ppm max.**

Allowable solids **3000 ppm max.**

Kinematic viscosity **1.75 × 10⁻⁶ m²/s max.**

Turbidity **50 ppm silica scale max.**

pH value **6.5–8.5**

Specific gravity **1.004 max.**

Hardness (drinking water) **300 ppm max.**

Notes (as printed — confirm with factory): * thrust-load bands run to 35 HP (150 mm) and 100 HP (200 mm), beyond the listed power ranges (25 HP, 75 HP); 175 mm star-delta band ends at 20 HP while the range runs to 25 HP. The source cover lists 250 mm (V10) but the specification covers 125–200 mm only. The manufacturer reserves the right to change design and specification without prior notice.