

Oswal Submersible V3 · V4

Water filled — rewindable borewell submersible pumpsets for 80 mm (V3) and 100 mm (V4) bores

AT A GLANCE

- Water-filled, water-lubricated, rewindable motor
- S.S./carbon thrust bearing
- 80 mm (V3) · 100 mm (V4) bores
- 0.5–7.5 HP, single- and three-phase
- Flow 10–400 L/min · head up to 350 m
- Pumps to IS 8034 · motors to IS 9283



V3 · V4

Domestic, agricultural & industrial range

Ushering in prosperity · 80 & 100 mm bores

80 · 100 mm

borewell size (V3 · V4)

0.5–7.5 HP

power range

400 L/min

max. flow

350 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

Water-filled submersibles for 80 and 100 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.

Oswal water-filled submersible motors are easy to rewind and repair, need little maintenance thanks to water-lubricated bearings, and give higher discharge and head through an efficient motor design — with care taken over the rotor, winding wire, bearings and stator. Borewell submersible pumps conform to **IS 8034**; water-cooled submersible motors to **IS 9283**.

Efficient & quiet

High efficiency, low power consumption, vibration-free and noiseless, with complete absence of suction trouble.

Rewindable motor

Stator wound with poly-synthetic insulated copper wire; water-lubricated and water-cooled.

Thrust bearing

S.S. / carbon thrust plate carries high thrust loads with minimum wear.

Specification

Details	80 mm water filled (V3)	100 mm water filled (V4)
Power range	0.5–1.5 HP 1-ph **	0.5–5 HP 1-ph · 0.5–7.5 HP 3-ph **
Supply	200–240 V AC 50 Hz 1-ph	200–240 V AC 50 Hz 1-ph · 380–415 V AC 50 Hz 3-ph
Speed	2880 rpm	2880 rpm
Flow rate	10–65 L/min	10–400 L/min
Total head range	10–105 m	10–350 m
Outlet size	1" · 25 mm	1", 1¼", 1½", 2", 2½" · 25, 32, 40, 50, 65 mm
Degree of protection	IP 58	IP 58
Direction of rotation	CCW	CCW 1-ph · CW 3-ph
Max. outer diameter	76 mm	98 mm
Type of duty	S1 (continuous)	S1 (continuous)
Min. cooling flow past motor	0.15 m/s	0.15 m/s
Max. starts per hour	12	12
Method of starting	Capacitor start & capacitor run (CSCR) 1-ph	Capacitor start & capacitor run (CSCR) 1-ph · direct on line (DOL) 3-ph
Cable connection	Permanently connected and sealed PVC-insulated 3-core flat cable	Permanently connected and sealed PVC-insulated 3-core flat cable

** Incorporates a thermal overload protector (optional on the 100 mm motor). Speed 2880 rpm nominal at 50 Hz.

CONSTRUCTION

Materials and pumped liquids

Material of construction — pump

Part	80 mm	Type S · 100 mm	Type P · 100 mm
Check - valve housing	C.I.	SS 304	C.I.
Check valve	Acetal / Noryl*	SS 304	C.I.
Impeller	Noryl*	Noryl*	Noryl*
Diffuser	Noryl*	Noryl*	Noryl*
Pump shell	SS 304	SS 304	Noryl* ‡
Pump shaft	SS 410/431	SS 410 / SS 431	SS 410 / SS 431
Suction interconnector	C.I.	SS 304	C.I.
Coupling	SS 410	SS 410	SS 410
Pump casing	SS 304	SS 304	SS 304

Material of construction — motor

Upper & lower housing	C.I.
Stator shell	SS 304
Shaft	SS 410
Journal bush	Leaded bronze
Mechanical seal	Carbon / ceramic
Thrust - base assembly	SS 410 & graphite carbon

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

Notes (as printed — confirm with factory): ‡ Type P pump shell listed as Noryl* while its pump casing is SS 304; the source sand limit quotes 100 mm and 125–200 mm bores, carried over from the larger - bore leaflets. The manufacturer reserves the right to change design and specification without prior notice.

Pumped liquid — clean, thin, 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.**

Water-filled motor

- Easy to rewind and repair
- Water - lubricated and water - cooled — low maintenance
- Thrust - plate design creates a water wedge between shoe and disc, extending thrust - plate life
- Excellent design gives higher discharge and head