

Oswal Pumps Ltd.



ISI · ISO 9001:2015 · BEE · CE



PUMPS & MOTORS

True Partner!

Oswal Industrial Range

Vertical multistage inline · sewage · coolant · openwell · mud · monoblock pumps · electric motors



Built for industry

Pumps & motors for process water, drainage, machine tools, HVAC and plant duty



8 lines

pumps & motors

up to 25 bar

OCR max. pressure

up to 3,500 L/min

openwell discharge

0.16–120 HP

electric motors

www.oswalpumps.com

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Oswal Estate, Karnal

Integrated manufacturing of pumps, motors, wires, cables and castings

Need help choosing?

Tell us the application, duty point and liquid — our team will recommend the right Oswal pump or motor.

1800-120-1882

info@oswalpumps.com · WhatsApp +91-98962-66691

COMPANY PROFILE

An integrated pump & motor manufacturer since 2000

Oswal Pumps Limited, started in the year 2000, has become India's first unique integrated plant of its kind — a world-class manufacturing facility backed by seasoned engineers and technicians.

Oswal manufactures submersible pumps, monoblock and surface pumps and electric motors for the domestic, agricultural and industrial markets. The industrial range in this catalogue covers multistage inline pumps for process and boosting duty, drainage and sewage pumps, coolant pumps for machine tools, openwell, mud and monoblock pumps, and single-phase, three-phase and cooling-tower motors.

Quality checks



Every pump and motor is tested on in-house test benches before dispatch.

Standards

IS 9079

single-phase monoblock pumps, 2,880 rpm

IS 996

single-phase electric motors

IS 325

three-phase induction motors



ISO 9001:2015 certified company

Our campus — Oswal Estate, NH-1, Karnal



RANGE AT A GLANCE

Eight product lines for industry



Product line	Series / standard	Power	Head / pressure	Flow	Page
Vertical multistage centrifugal pumps	OCR 1-15	0.37-15 kW	up to 25 bar	0.8-24 m³/h	5
Sewage pumps	OFP-21/32/33 series	1-3 HP	up to 19 m	50-1,000 L/min	8
Coolant pump	OPCP-02-3PH	0.25 HP	2-6 m	up to 85	8
Openwell submersible pump sets	1- & 3-phase	0.5-10 HP	6-60 m	60-3,500 L/min	9
Mud pumps	1- & 3-phase	1-3 HP	6-22 m	70-450 L/min	9
Centrifugal monoblock pumps	2,880 rpm · IS 9079	0.5-20 HP	up to 82 m	up to 2,300 L/min	10
Single-phase electric motors	IS 996 · 4-pole	0.16-5 HP	—	—	11
Three-phase induction & cooling-tower motors	IS 325	0.25-120 HP	—	—	11

Why Oswal

- ✓ Integrated manufacturing — stampings, winding wire, castings and motors made in-house at Oswal Estate, Karnal
- ✓ Every pump and motor tested on in-house test benches before dispatch
- ✓ ISO 9001:2015 certified company; ISI, CE and BEE approved products
- ✓ Sales and service support across India — toll-free 1800-120-1882

Published range limits of each line; details on the product pages. Coolant-pump discharge unit not printed in the source.

Sales & service across India

For prices, availability and selection support contact Oswal Pumps or your nearest Oswal dealer.

1800-120-1882

Sales / WhatsApp +91-98962-66691

OCR · vertical inline

Vertical Multistage Centrifugal Pumps

In-line vertical multistage pumps for filtration, transfer, pressure boosting and process water

SIZES
OCR 1 – OCR 15

FLOW
0.8–24 m³/h

PRESSURE
up to 25 bar

MOTOR
0.37–15 kW



RANGE OVERVIEW

Range	OCR 1	OCR 2	OCR 3	OCR 4	OCR 5	OCR 10	OCR 15
Nominal flow rate (m ³ /h)	1	2	3	4	5	10	15
Flow rate (m ³ /h)	0.8–2.4	1.0–4.0	1.2–4.4	2.0–8.0	2.0–8.5	6–13	10–24
Max. pressure (bar)	22	25	24	22	24	22	23
Motor power (kW)	0.37–2.2	0.37–3.0	0.37–3.0	0.37–4.5	0.37–5.5	0.37–7.5	1.1–15.0
Max. pump efficiency (%)	48	48	58	58	66	70	72
Flange	DN 25/32	DN 25/32	DN 25/32	DN 25/32	DN 25/32	DN 40	DN 50
Liquid temperature (°C)	–30 to +120 · all sizes						

Rows spanning all columns apply to every size. Pressure in bar (≈ kg/cm²).

Applications

Filtration and transfer at waterworks

Pressure boosting in mains, high-rise buildings and hotels

Process water systems

Washing and cleaning systems

Vehicle washing tunnels

Fire-fighting systems

Cooling and air-conditioning systems

Boiler feed and condensate systems

Machine tools (cooling lubricants)

Aquafarming

Ultra-filtration systems

Reverse-osmosis systems

Demineralising systems

Distillation systems

Separators

Swimming baths and water parks

Field irrigation (flooding)

Sprinkler and drip-feed irrigation

Electric motor

Type	Totally enclosed, fan-cooled 2-pole standard motor
Mounting	up to 4 kW: face mounting ¹ from 5.5 kW: flange mounting
Insulation	Class F
Enclosure	IP55
Voltages, 50 Hz	1 × 220–230 / 240 V 3 × 380–415 V

¹ Printed “phase mounting” in the source — read as face mounting; please confirm.

OPERATING AND INLET PRESSURE · VERTICAL MULTISTAGE INLINE PUMPS

OCR — inlet pressure & motor de-rating

Maximum inlet pressure

The table shows the maximum permissible inlet pressure. The actual inlet pressure plus the pressure against a closed valve must always be lower than the maximum permissible operating pressure. If the maximum permissible operating pressure is exceeded, the conical bearing in the motor may be damaged and the life of the shaft seal reduced.

Pump	No. of stages	Max. inlet pressure (kg/cm ²)
OCR 1	2 to 36	10
OCR 2	2 to 26	10
OCR 3	2 to 29	10
	31 to 36	15
OCR 4	1 to 22	10
OCR 5	2 to 16	10
	18 to 36	15
OCR 10	1 to 6	8
	7 to 22	10
OCR 15	1 to 3	8
	4 to 17	10

Stage ranges as printed in the source (e.g. OCR 3: 2–29 and 31–36 stages).

Ambient temperature

Maximum ambient temperature: **+40 °C**. If the ambient temperature exceeds +40 °C, or the motor is located more than 1,000 m above sea level, the motor output (P2) must be reduced because of the lower cooling effect of the air. In such cases it may be necessary to use a motor with a higher output.

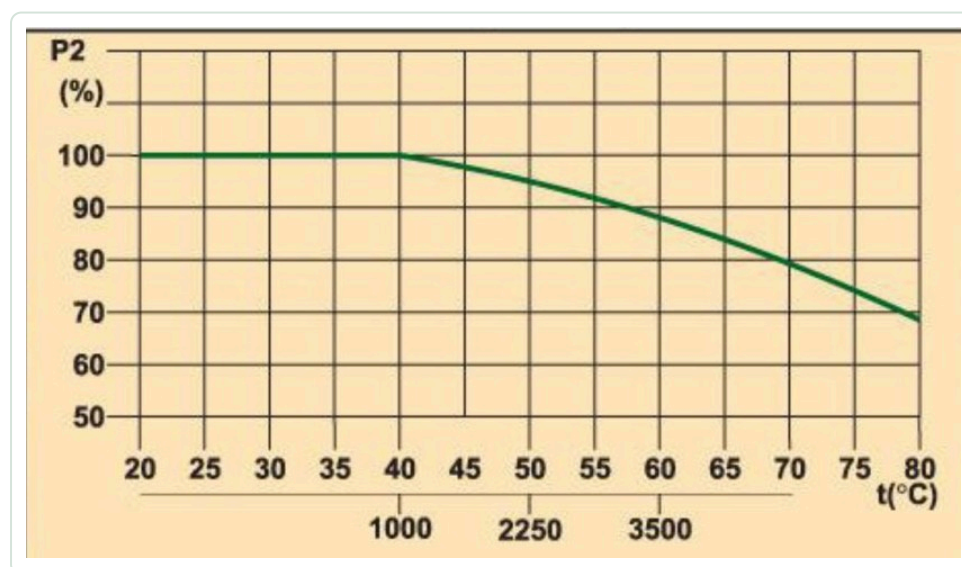
Max. ambient temperature +40 °C

Altitude without de-rating up to 1,000 m

Motor insulation Class F

Enclosure IP55

Motor de-rating — output P2 vs ambient temperature and altitude



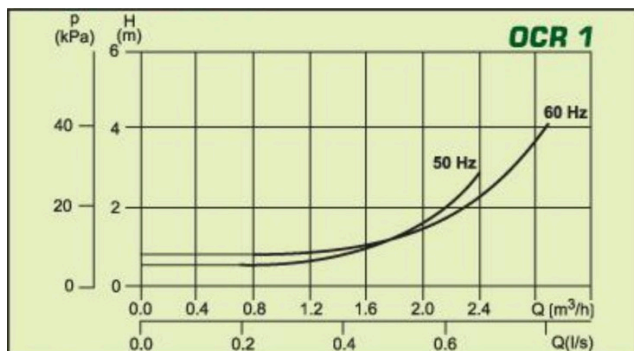
Motor output P2 (%) against ambient temperature t (°C, upper scale) and altitude (m above sea level, lower scale) — original chart.

NPSHR CURVES · 50 HZ AND 60 HZ

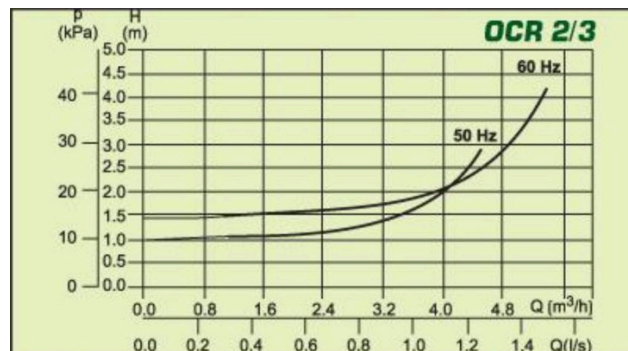
OCR — net positive suction head required

NPSHR in metres (and kPa) against flow rate Q in m³/h (lower scale l/s), for 50 Hz and 60 Hz operation. Original curves reproduced from the source catalogue.

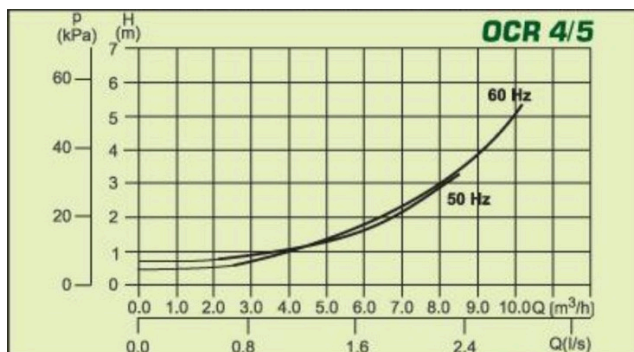
OCR 1



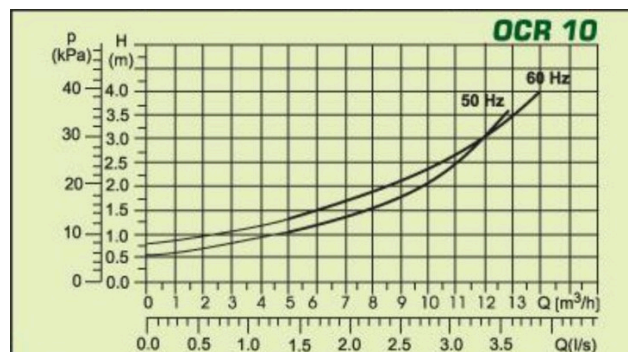
OCR 2 / OCR 3



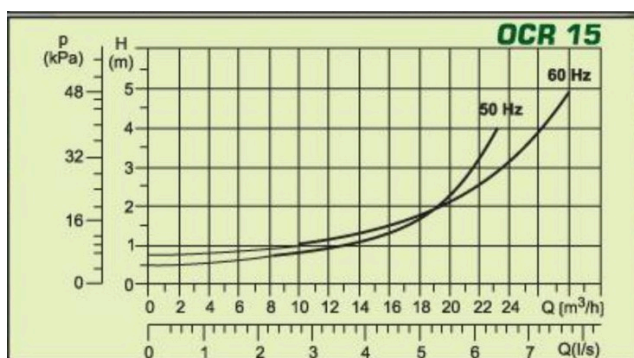
OCR 4 / OCR 5



OCR 10



OCR 15



Reading the curves. Check that the NPSH available at the installation exceeds the NPSHR at the duty flow plus a safety margin. Curves for OCR 2 / 3 and OCR 4 / 5 are shared.

**DRAINAGE & SEWAGE****Sewage Pumps**

Submersible sewage pumps for drainage of sewage and waste water from buildings, hotels and industrial process plants.

- Drainage of sewage from building basements
- Hotel industry
- Waste water from factories
- Industrial process effluent
- Emptying septic tanks and cesspits
- Sewage pump stations
- Surface and drainage water from garages
- Sprinkler systems

Models with suffix "F" are supplied with a float switch.

PERFORMANCE — HEAD (M) AT FLOW

Single-phase capacitor start	Three-phase direct-on-line	kW	HP	m ³ /h	3	6	12	18	24	36	48	60
				L/min	50	100	200	300	400	600	800	1000
OFP-2115 / 2115F	OFP-2135	0.75	1.0	Head (m)	13	12	9	6.5	3.5	–	–	–
OFP-3215	OFP-3235	1.50	2.0	Head (m)	16.5	16	14	12	10.5	6.5	3	–
OFP-3315	OFP-3335	2.20	3.0	Head (m)	19	18.5	17	15.5	14	10	7	3

Single-phase models: capacitor start; three-phase models: direct-on-line. A dash means the flow is outside the operating range of that model.

**MACHINE TOOLS****Coolant Pump**

Vertical immersion pump for circulation of cutting oil and other coolants in machine tools.

- Machine-tool coolant circulation
- Cutting oil
- Other coolants

PERFORMANCE

Model	kW	HP	Delivery size (mm)	Head (m)	2	3	4	5	6
				Head (ft) ¹	13	26	39	52	66
OPCP-02-3PH	0.18	0.25	25 × 25	Discharge ²	85	63	47	21	0

¹ Feet row as printed — 13–66 ft corresponds to about 4–20 m, not 2–6 m; please confirm which row is correct. ² Discharge unit not printed in the source (probably L/min).

HORIZONTAL OPENWELL SUBMERSIBLE

Openwell Submersible Pump Sets

Runs in open air as well as submerged in water — for industrial and domestic water supply, irrigation and circulation duty.

Details	Single-phase	Three-phase
Range	0.5–3 HP	0.5–10 HP
Head	6–40 m	7–60 m
Discharge	60–1,150 L/min	60–3,500 L/min
Pipe size	25 × 25 mm to 100 × 100 mm	25 × 25 mm to 125 × 125 mm

APPLICATIONS

- Industrial & domestic water supply
- Lift-irrigation schemes
- Drip & sprinkler irrigation
- Fire-fighting booster
- Cooling-water circulation
- Fountains & water parks
- Air-conditioning & industrial plants

SLURRY DUTY

Mud Pumps

Self-contained monoblock mud pumps for mud circulation, crude-oil and mud-slurry handling in oil fields, and cement-slurry water.

Details	Single- & three-phase
Range	1–3 HP
Head	6–22 m
Discharge	70–450 L/min
Delivery size	40 × 40 mm, 50 × 40 mm & 50 × 50 mm

APPLICATIONS

- Mud circulation
- Crude oil & mud slurry in oil fields
- Cement slurry water

2,880 rpm · IS 9079

Centrifugal Monoblock Pump Sets

Close-coupled centrifugal monoblock pumps for building services, irrigation and industry

POWER
0.5–20 HP

FLOW
up to 2,300 L/min

HEAD
up to 82 m

SUCTION LIFT
7 m



SPECIFICATIONS

Power range	0.5–5 HP, single-phase 0.5–20 HP, three-phase
Speed	2,880 rpm
Flow rate	up to 2,300 L/min
Head range	up to 82 m
Suction lift	up to 7 m
Pump sizes (inch)	1 × 1, 1¼ × 1, 1½ × 1¼, 1½ × 1½, 2 × 1½, 2 × 2, 2½ × 2, 3 × 2½, 3 × 3, 4 × 3, 4 × 4
Version — single-phase	200–240 V AC, 50 Hz · permanent split capacitor (CSR)
Version — three-phase	380–415 V AC, 50 Hz · 0.5–7.5 HP DOL, 10–15 HP star-delta ¹
Standard	IS 9079 (single-phase, 2,880 rpm)

¹ Starting method for 20 HP is not stated in the source.

APPLICATIONS

- Hospitals
- Water-circulation systems
- Government water-supply schemes
- Irrigation
- Farms, drip & sprinkler irrigation
- Gardening & nurseries
- Domestic water supply
- Multi-storey buildings
- Industries & hotels



Oswal centrifugal monoblock pump set.

ELECTRIC MOTORS

Single-phase, induction & cooling-tower motors

Versatile industrial-duty motors for agricultural equipment, machinery, hydraulics, compressors, looms and flour mills — and dedicated motors for cooling towers in air-conditioning and refrigeration plants.



IS 996

Single-phase motors



IS 325

Three-phase induction motors



HVAC DUTY

Cooling-tower motors

Details	Single-phase motors	Three-phase induction motors	Cooling-tower motors
Range	0.16–5 HP	0.25–120 HP	0.25–120 HP
Speed (rpm)	1,440	3,000 / 1,500 / 1,000 / 750 / 600 / 500 / 375 ¹	3,000 / 1,500 / 1,000 / 750
Frames	63–132 M	63–280 M	63–280 M
Insulation class	A & B	F	F
Rating	S1 continuous	Continuous	Continuous
Poles	4	2 / 4 / 6 / 8 ¹	–
Standard	IS 996	IS 325	–

¹ Speeds of 600, 500 and 375 rpm correspond to 10, 12 and 16 poles, but the source lists only 2 / 4 / 6 / 8 poles — please confirm.

SINGLE-PHASE — APPLICATIONS

Agricultural equipment Machinery
Hydraulic equipment Compressors
Looms Flour mills

INDUCTION — APPLICATIONS

Machine tools Textiles
Air conditioning Dairy equipment
Cranes & hoists Pollution control
Aquaculture & agriculture Fertilisers
Mines & chemicals

COOLING-TOWER — APPLICATIONS

Cooling towers
Air-conditioning plants
Refrigeration industries & plants

Certified quality and energy efficiency

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Certificate

Registration Number: **1401-100000**

MBA Certification hereby certifies that the Technical Documentation for the products:
Submersible Pump Sets, Openwell (Explosionproof) Submersible Pumps, Electric Motor and Centrifugal
Motorhead Pump Sets under the Model name **TOWN-40, RAYON-40, SANGAM-40, PARISH
B-HUBA***

(After despatch of the products covered by the certificate as per the business standard)

Manufactured by:
Oshwa Pumps Limited
Location: T. Oshwa Estate, N.V. Kanak Road, P.O. Kanak-110017, Dist. Kanpur, (Uttar Pradesh)
Location: T. 1100 Kanak, C.P. Road, Kanpur-200001, (Uttar Pradesh)

Issued in pursuance with the requirements of **IS 10000:2006/IEC 60335-1:2006**

The technical documentation, inspection test results comply with the requirements of
IEC 60335-1:2006/IEC 60335-1:2006. It is accordingly placed on the list of Declaration of
Conformity according to 2006/95/EC. European Declaration for CE marking with its own
responsibility as follows:

CE

Certification Issue Date: 02 April 2014 Certification Expiry Date: 01 April 2024

Initial Certification Date: 02 April 2014

Re-certification Date: 01 April 2014

Sushma Singh
Sushma Singh
Website: www.bis.gov.in/certification
e-mail: ajaygupta@certification.com

Bureau of Indian Standards



Certificate

Registration Number: **IAAF-110418**
 Approved to related guidelines

DETAILS OF PRODUCTS COVERED UNDER SCOPE OF CERTIFICATION

Product / Device Name	Details / Features
Submersible Pump Sets & Opposed Horizontal Submersible Pumps	▪ All 110V/240V Submersible Pump Sets (Single & Three Phase, 1/2 to 10 HP each) ▪ Shared Head Submersible Pump Sets (Single & Three Phase 1/2 to 10 HP each)
Electric Motor	▪ Special 3-Phase Induction Motor (Single & Three Phase)
Centrifugal Mechanical Pump Sets	▪ Centrifugal Mechanical Pump Set 1440 RPM (Single & Three Phase) ▪ Centrifugal Mechanical Pump Set 2880 RPM (Single & Three Phase)

Certification Issue Date: 02 April 2011

Initial Certificate Date: 02 April 2011

Recertification Date: 01 April 2016

Certification Expiry Date: 01 April 2012

Signature

Technical Manager

website: www.msraustralia.com

e-mail: msr@msraustralia.com



[illegible]

5. The entire label (or a note attached to you for the agreement to **BEE-CPA-001-2020**)

6. This shall be easily label for marking:

- i. The accuracy of the information displayed on the label or any public source for label level and quality of information.
- ii. Usage of the label only for such agreement models for which the agreement has been entered into on the basis.
- iii. The model agreement terms shown against to add relevant BEE label to the model.
- iv. Issue compliance with level of confidence of all others.
- v. Issue compliance with the standards issued by the Bureau on implementation of the Scheme.
- vi. Payment of any compensation attributable for any issue related to any process for any information displayed on the label.

Yours faithfully,



(Bureau Cert.)
Bureau of Energy Efficiency

Director, as above

CC-0: (Planning Group)
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12



True Partner!

Oswal Pumps Limited

Pumps & Motors · Solar | Domestic | Agriculture | Industrial

PAN-INDIA PRESENCE



GLOBAL PRESENCE



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ISO 9001:2015 certified company