

Oswal SS Submersible V10

Stainless-steel 10" submersible pumps for 6", 8" and 10" motors · OSP 10-125 / OSP 10-160

AT A GLANCE

- Fully fabricated AISI 304 stainless steel
- Flow 48–204 m³/h (800–3,400 L/min)
- Head up to 285 m
- 10–125 HP (7.5–93 kW) · 6" BSP / NPT outlet
- Water-lubricated bearings with sand channels
- Built-in non-return valve

V10



Look at the range we have for energy saving

10" pumps · 6", 8" & 10" motors · 54 duty options

125 · 160

m³/h nominal duty

48–204 m³/h

flow range

285 m

max. head

7.5–93 kW

10–125 HP

MANUFACTURED BY

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ISO 9001:2015

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SS PUMP OSP 10-125 / 160

Energy-efficient 10" stainless-steel submersibles

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, industrial water-supply systems and hotels.

Oswal has developed energy-efficient, cost-effective pumps of fully fabricated AISI 304 stainless steel to international quality levels, and exports pump sets to developed countries. The pump sets are of modular design for under-water operation and universal fit; all mounting dimensions of pumps and motors follow NEMA standards. Fabricated construction keeps them light and easy to handle and gives a long service life.

Oswal water-filled and 8" water-cooled submersible motors conform to IS 9283; pump sets conform to IS 8034.

General data

Duty range	2,100–2,700 L/min (126–162 m ³ /h)
Flow range	48–204 m ³ /h
Max. head (H)	285 m
Pumped liquid	Clean, thin, non-aggressive water, free from solids, chemically neutral
Max. liquid temperature	35 °C (see note)
Max. sand content	40 g/m ³
Min. suction head required	1.5 m
Starts per hour	15–20 max.
Operating pressure	67 bar max.

Construction & connection

Type	OSP 125	OSP 160
Steel	AISI 304	AISI 304
Connection Rp · BSP thread	6"	6"
Connection Rp · NPT thread	6"	6"

Max. liquid temperature by installation

Motor	Flow velocity past motor	Vertical	Horizontal
8"	0.15 m/s	40 °C	40 °C

Note: the source gives 35 °C in General data and 40 °C in this table (at ≥ 0.15 m/s cooling flow past the motor); both are shown as printed.

Model type key — example OSPJ 125 4 A A

OSP Model type	J Janta: 6" motor with 10" pump	125 Nominal flow, m ³ /h (× 16.67 = L/min)
4 Number of impellers (stages)	A 1st impeller with reduced diameter (A, B, C)	A 2nd impeller with reduced diameter (A, B, C)



FABRICATED AISI 304 STAINLESS-STEEL COMPONENTS

FEATURES AND BENEFITS

Built for duty, designed for efficiency

A wide pump range

Energy-efficient duty points across the range, with many pump sizes (stages and impeller trims) to match any duty point.

Low installation cost

Low weight eases handling and cuts equipment cost, installation and service time; high wear resistance means pumps are as good as new after service.

High pump efficiency

Pump and motor efficiency is often neglected in favour of purchase price — yet it decides the running cost for the life of the pump.

Bearings with sand channels

All bearings are water-lubricated and have an octagonal shape with channels that let sand particles pass.

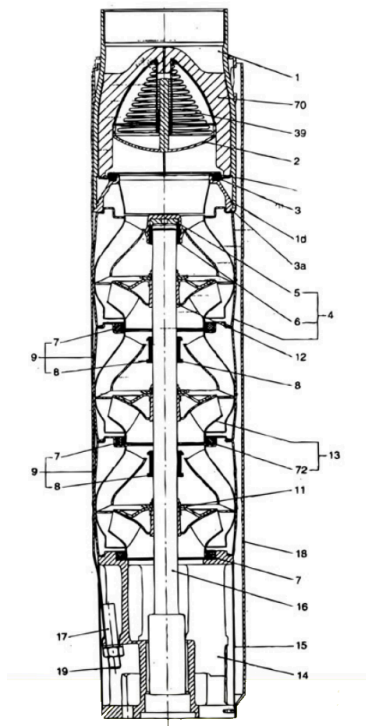
Stainless steel throughout

All wetted parts in AISI 304 for good wear resistance and a reduced risk of corrosion with ordinary cold water containing a little chloride.

Inlet strainer & NRV

The strainer stops particles above a set size; a fast-closing non-return valve prevents back-flow and minimises water hammer with low pressure loss.

Example: pumping 125 m³/h against 100 m head, a stainless-steel energy-efficient pump saves about 4 kWh every hour compared with other pumps — around **₹4,60,000 in 10 years** at 8 hours' running a day.



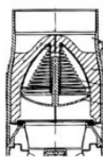
SECTIONAL DRAWING · OSP 10-125



BEARING WITH SAND CHANNELS



INLET STRAINER



NON-RETURN VALVE (NRV FLAP)

Material specification OSP 10-125 / 160

No.	Component	Material	Grade
1	Valve, complete	Stainless steel	304
1d	O-ring	NBR	
2	Valve cup	Stainless steel	304
3	Valve seat	Stainless steel + NBR	
3a	Lower valve-seat retainer	Stainless steel	304
4	Top chamber	Stainless steel	304
5	Stop disc	Zinc-less bronze	
6	Upper bearing	Stainless steel + NBR	
7	Neck ring	NBR + stainless steel	
8	Bearing	NBR	
9	Intermediate chamber	Stainless steel	304
11	Split-cone nut	Stainless steel	304
12	Split cone	Stainless steel	304
13	Impeller	Stainless steel	304
14	Suction interconnector	Stainless steel	304
15	Strainer	Stainless steel	304
16	Pump shaft	Stainless steel	316
17	Strap	Stainless steel	304
18	Cable guard	Stainless steel	304
18a	Cheese-head screw for cable guard	Stainless steel	304
19	Nut	Stainless steel	304
19a	Nut	Stainless steel	304
22	Hex-head bolt	Stainless steel	304
22a	Nut	Stainless steel	304
23	Rubber guard	Rubber	
28	Lock for strainer	Stainless steel	304
39	Spring for valve cup	Stainless steel	304
70	Valve guide, complete	Stainless steel	304
71	Washer	Stainless steel	304
72	Wear ring	Stainless steel	304
77	Cover plate for suction interconnector	Stainless steel	304
77a	Screw for cable-guard holder	Stainless steel	304
78	Nameplate	Stainless steel	304
79	Rivet	Stainless steel	304

10" · Mixed flow

OSP 10-125

Performance · 6", 8" & 10" motor options

DUTY POINT
126 m³/hFLOW
48-156
m³/hMAX. HEAD
285 mPOWER
7.5-93
kWOUTLET
6"RATINGS
31

PUMP · MOTOR OPTIONS

TOTAL HEAD (M) AT FLOW RATE Q

Stages	HP	kW	6" OSPJ	8" OSP8	10" OSP10	0 m ³ /h	48	96	126	144	156
						0 L/min	800	1600	2100	2400	2600
1-A	10	7.5	●	●	—	21	20	16	13	10	7
1	15	11	●	●	—	29	28	23	20	17	15
2-AA	15	11	●	●	—	40	37	30	25	18	12
2-AA	17.5	13	●	●	—	42	39	32	26	19	13
2-AA	20	15	●	●	—	44	41	34	27	20	14
2-A	25	18.5	●	●	—	50	47	39	33	27	21
2	30	22	●	●	—	57	55	46	40	34	29
3-AA	30	22	●	●	—	71	67	55	46	36	28
3-A	35	26	●	●	—	78	75	62	53	44	36
3	40	30	●	●	—	86	83	69	60	51	44
4-AA	50	37	●	●	—	99	94	78	66	53	42
4-A	50	37	●	●	—	107	103	85	73	61	51
4	50	37	●	●	—	114	111	92	80	68	59
5-AA	60	45	—	●	●	128	122	101	86	70	57
5-A	60	45	—	●	●	135	131	108	93	78	66
5	75	55	—	●	●	143	139	115	100	85	74
6-AA	75	55	—	●	●	156	150	124	106	87	72
6-A	75	55	—	●	●	164	158	131	113	95	80
6	85	63	—	●	●	171	166	138	120	102	88
7-AA	85	63	—	●	●	185	178	147	126	104	87
7-A	85	63	—	●	●	192	186	154	133	112	95
7	100	75	—	●	●	200	194	161	140	119	103
8-AA	100	75	—	●	●	213	205	170	146	121	101
8-A	100	75	—	●	●	221	213	177	153	129	109
8	100	75	—	●	●	228	222	184	160	136	118
9-AA	125	93	—	●	●	242	233	193	166	138	116
9-A	125	93	—	●	●	249	241	200	173	146	124
9	125	93	—	●	●	257	249	207	180	153	132
10-AA	125	93	—	●	●	270	261	216	186	155	131
10-A	125	93	—	●	●	278	269	223	193	163	139
10	125	93	—	●	●	285	277	230	200	170	147

● = available with that motor size: **OSPJ** 6" Janta motor (1-A to 4 stages, up to 50 HP) · **OSP8** 8" motor (all ratings) · **OSP10** 10" motor (from 60 HP). Heads in metres; highlighted column = nominal duty point. Speed approx. 2850 min⁻¹, tolerances ISO 9906 Annex A.

Corrected values (red): 5-A heads printed as 149 / 142 / 117 / 100 / 85 / 74 (OSP10 table) and 149 / 142 / 117 / 99 / 80 / 64 (OSP8 table) — higher than the full 5-stage pump, so impossible for a trimmed impeller; replaced with the 5-A values of Oswal's current 50 Hz catalogue (135 / 131 / 108 / 93 / 78 / 66). Stage 7 / 100 HP printed as 55 kW (OSP10) and 63 kW (OSP8); corrected to 75 kW (100 HP).

10" · Mixed flow

OSP 10-160

Performance · 6", 8" & 10" motor options

DUTY POINT
162 m³/hFLOW
60-204
m³/hMAX. HEAD
256 mPOWER
7.5-93
kWOUTLET
6"RATINGS
23

PUMP · MOTOR OPTIONS

TOTAL HEAD (M) AT FLOW RATE Q

Stages	HP	kW	6" OSPJ	8" OSP8	10" OSP10	0 m ³ /h	60	90	120	162	180	204
						0 L/min	1000	1500	2000	2700	3000	3400
1-A	10	7.5	●	●	—	24	21	18	16	12	10	4
1	17.5	13	●	●	—	32	30	26	23	20	18	13
2-AA	25	18.5	●	●	—	48	41	36	32	24	19	8
2-A	30	22	●	●	—	56	50	44	39	32	27	17
2	35	26	●	●	—	64	59	52	47	40	35	27
3-AA	40	30	●	●	—	80	71	62	55	44	37	21
3-A	50	37	●	●	—	88	80	70	63	52	45	31
3	50	37	●	●	—	96	89	79	70	60	53	40
4-AA	60	45	—	●	●	112	100	88	79	64	54	35
4-A	60	45	—	●	●	120	109	97	86	72	62	44
4	75	55	—	●	●	128	118	105	93	80	70	53
5-AA	75	55	—	●	●	144	130	115	102	84	72	48
5-A	75	55	—	●	●	152	139	123	109	92	80	57
5	85	63	—	●	●	160	148	131	117	100	88	67
6-AA	85	63	—	●	●	176	159	141	125	104	89	61
6-A	100	75	—	●	●	184	168	149	133	112	97	71
6	100	75	—	●	●	192	177	157	140	120	105	80
7-AA	100	75	—	●	●	208	189	167	149	124	107	75
7-A	125	93	—	●	●	216	198	175	156	132	115	84
7	125	93	—	●	●	224	207	183	163	140	123	93
8-AA	125	93	—	●	●	240	218	193	172	144	124	88
8-A	125	93	—	●	●	248	227	201	179	152	132	97
8	125	93	—	●	●	256	236	210	186	160	140	106

● = available with that motor size: **OSPJ** 6" Janta motor (1-A to 3 stages, up to 50 HP) · **OSP8** 8" motor (all ratings) · **OSP10** 10" motor (from 60 HP). Heads in metres; highlighted column = nominal duty point.

Curve conditions

- **Q/H:** curves include losses such as non-return-valve losses at actual speed. Operation without the NRV raises the actual head at nominal performance by 0.5-1.0 m.
- **Power curve:** shaft power (BkW) per stage.
- **Efficiency curve:** pump-stage efficiency.
- Curve tolerances to **ISO 9906, Annex A**. Curves show performance at the actual speed of the standard motor range (approx. 2850 min⁻¹).
- Measured with airless water at 20 °C, kinematic viscosity 1 mm²/s. For liquids denser than water, use motors with correspondingly higher output.

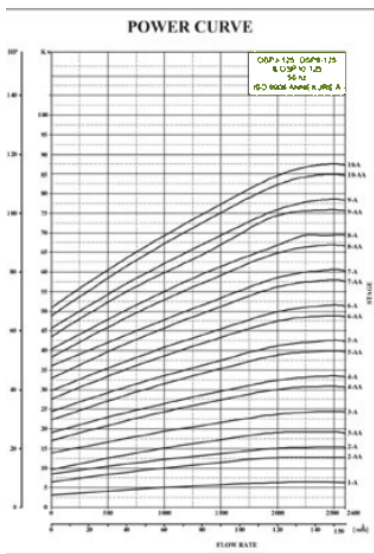
Notes

- Bold curves indicate the recommended performance range.
- Pumped liquids: clean, thin, non-aggressive, without solid particles; max. sand 40 g/m³.

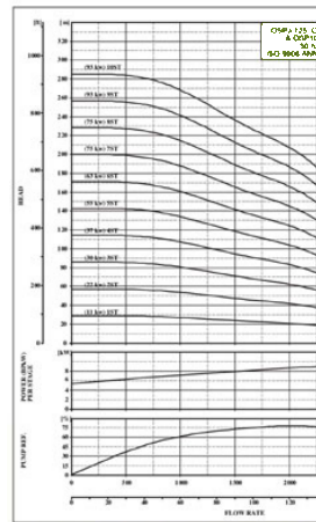
Warranty: 12 months as per our standard terms and conditions mentioned in the quotation / offer. The manufacturer reserves the right to change the design and specification without prior notice.

OSP 10-125

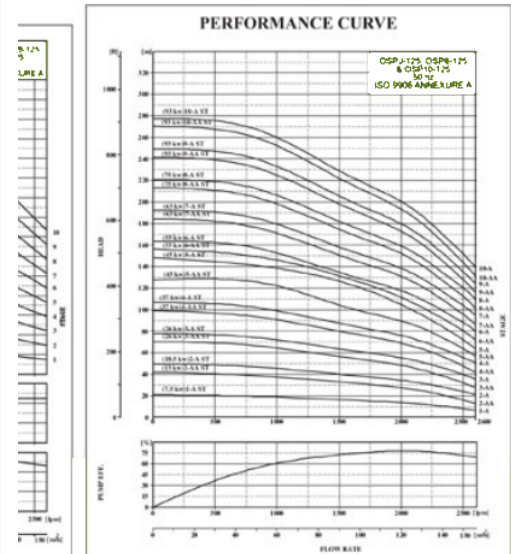
— Power, Q/H with efficiency, performance by stage · 50 Hz · ISO 9906 Annex A



POWER CURVE



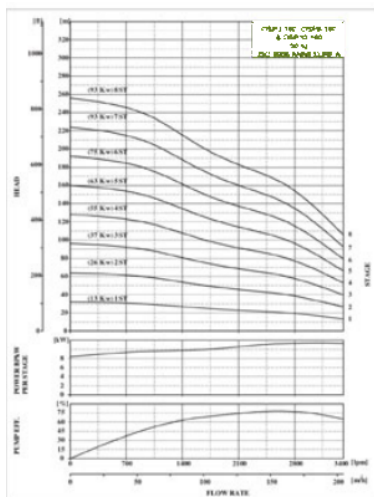
Q/H · EFFICIENCY



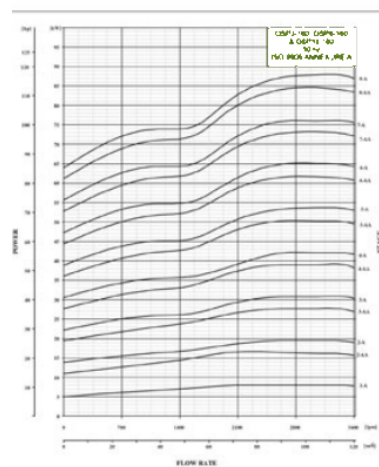
PERFORMANCE CURVE

OSP 10-160

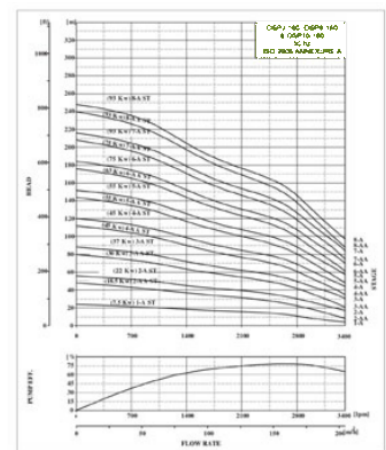
— Q/H with efficiency, power, performance by stage · 50 Hz · ISO 9906 Annex A



Q/H · EFFICIENCY



POWER CURVE



PERFORMANCE CURVE