

Oswal SS Submersible V6

Stainless-steel 6" submersible pumps for 4", 6" and 8" motors · OSP-17 / OSP-30

AT A GLANCE

- Fully fabricated AISI 304 stainless steel
- One 6" pump end for 4", 6" and 8" motors
- Flow 6–39 m³/h (100–650 L/min)
- Head up to 672 m
- 0.75–75 HP (0.55–55 kW) · 2½" / 3" outlet
- Built-in non-return valve

V6



Look at the range we have for energy saving

6" pumps for 4" · 6" · 8" motors · 90 ratings

17 · 30

m³/h nominal duty

6–39 m³/h

flow range

672 m

max. head

0.55–55 kW

0.75–75 HP

MANUFACTURED BY

Oswal Pumps Ltd.

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ISO 9001:2015

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SS PUMP OSP-17 / 30

High-head 6" 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	250–500 L/min (15–30 m ³ /h)
Flow rate Q	6–39 m ³ /h
Max. head (H)	672 m (see note)
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 17	OSP 30
Steel	AISI 304	AISI 304
Connection Rp · BSP thread	2½"	3"
Connection Rp · NPT thread	2½"	3"

Max. liquid temperature by installation

Motor	Flow velocity past motor	Vertical	Horizontal
6"	0.15 m/s	40 °C	40 °C

Note: General data gives 35 °C; this table gives 40 °C at ≥ 0.15 m/s cooling flow past the motor. Source max. head 670 m; the OSP6-17/60 table gives 672 m.

Model type key — example OSP 6 30 10

OSP Model type	6 Motor size: 4", 6" or 8" motor with 6" pump	30 Nominal flow, m ³ /h (× 16.67 = L/min)
10 Number of impellers (stages)		



FABRICATED AISI 304 STAINLESS-STEEL COMPONENTS

FEATURES AND BENEFITS

Built for duty, designed for efficiency

A wide pump range

Energy-efficient duty points from 15 to 30 m³/h, with many pump sizes (stages) 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.

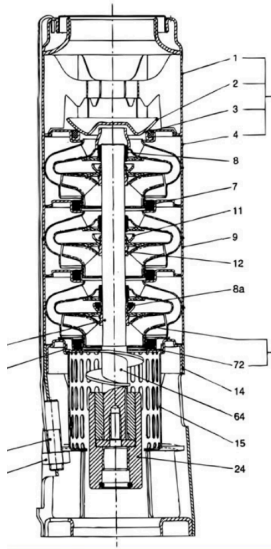
Stainless steel throughout

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

Stop ring (OSP-30)

Designed as a thrust bearing, the stop ring limits axial shaft movement and protects the pump against up-thrust at start-up and in transport.

Example: pumping 30 m³/h against 60 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.



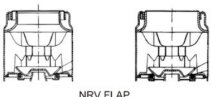
SECTIONAL DRAWING · OSP-17



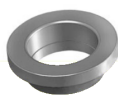
BEARING WITH SAND CHANNELS



INLET STRAINER



NON-RETURN VALVE



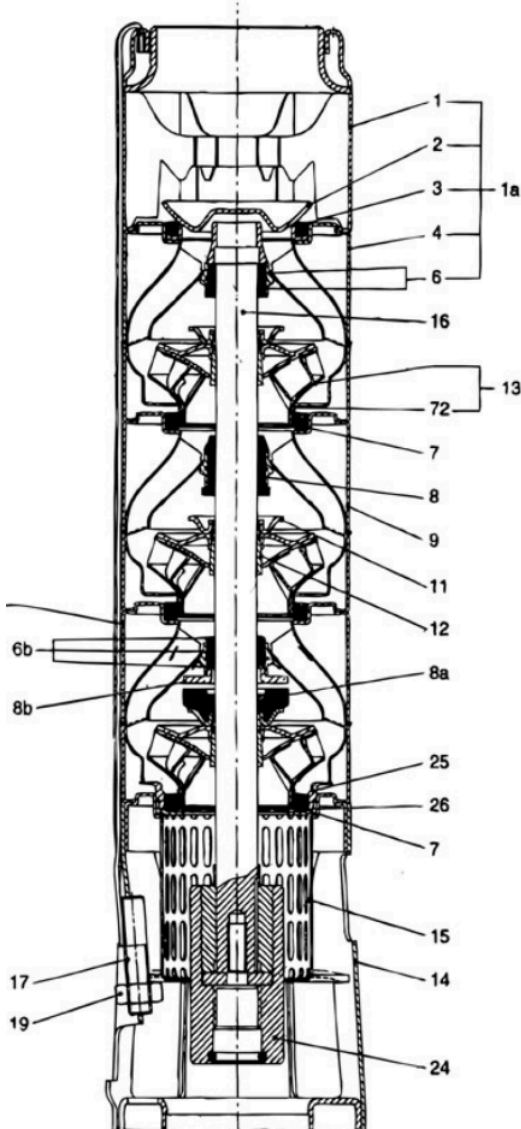
STOP RING (OSP-30)

Material specification OSP-17

No.	Component	Material	Grade
1	Valve casing	Stainless steel	304
1a	Discharge chamber, complete	Stainless steel	304
2	Valve cup	Stainless steel	304
3	Valve seat	Stainless steel + NBR	
4	Top intermediate chamber	Stainless steel	304
6	Top bearing	NBR	
7	Neck ring	NBR / stainless steel	
8	Intermediate bearing	NBR	
8a	Spacing washer	Carbon/graphite HY22 in PTFE mass	
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
19	Nut	Stainless steel	304
19a	Nut	Stainless steel	304
23	Rubber guard	Rubber	
25	Neck-ring retainer	Stainless steel	304
SQ	Priming screw	Stainless steel	304
72	Wear ring	Stainless steel	304
75	Spacer ring	Stainless steel	304
78	Nameplate	Stainless steel	304

OSP-30

Sectional drawing and material specification



SECTIONAL DRAWING · OSP-30 (WITH STOP RING 8A / 8B)

Material specification OSP-30

No.	Component	Material	Grade
1	Valve casing	Stainless steel	304
1a	Discharge chamber, complete	Stainless steel	304
2	Valve cup	Stainless steel	304
3	Valve seat	Stainless steel + NBR	
4	Top intermediate chamber	Stainless steel	304
6	Upper bearing	NBR	
	Cap (upper bearing)	Stainless steel	304
6b	Lower bearing	NBR	
	Cap (lower bearing)	Stainless steel	304
7	Neck ring	NBR + stainless steel	
8	Intermediate bearing	NBR	
8a	Spacing washer for stop ring	Carbon/graphite HY22 in PTFE mass	
8b	Stop ring	Stainless steel	304
9	Intermediate chamber	Stainless steel	304
10	Bottom 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
19	Nut	Stainless steel	304
19a	Nut	Stainless steel	304
23	Rubber guard	Rubber	
25	Neck-ring retainer	Stainless steel	304
72	Wear ring	Stainless steel	304
78	Nameplate	Stainless steel	304

6" pump · 4"/6" motor

OSP-17

Performance · 4" · 6" motors

NOMINAL
17 m³/hFLOW
6–21 m³/hMAX. HEAD
672 mPOWER
0.55–37 kWOUTLET
2½"RATINGS
48

PUMP · MOTOR

TOTAL HEAD (M) AT FLOW RATE Q

Stages	HP	kW	4"	6"	0 m ³ /h	6	12	15	18	21
					0 L/min	100	200	250	300	350
1	0.75	0.55	●	–	11.2	11.0	9.8	8.8	7.4	5.7
2	1.5	1.1	●	–	22	22	20	18	15	11
3	3	2.2	●	●	34	33	29	26	22	17
4	3	2.2	●	●	45	44	39	35	30	23
5	4	3.0	●	●	56	55	49	44	37	29
6	5	3.7	●	●	67	66	59	53	44	34
7	6	4.5	●	●	78	77	69	62	52	40
8	7.5	5.5	–	●	90	88	78	70	59	46
9	7.5	5.5	–	●	101	99	88	79	67	51
10	7.5	5.5	–	●	112	110	98	88	74	57
11	10	7.5	–	●	123	121	108	97	81	63
12	10	7.5	–	●	134	132	118	106	89	68
13	10	7.5	–	●	146	143	127	114	96	74
14	12.5	9.3	–	●	157	154	137	123	104	80
15	12.5	9.3	–	●	168	165	147	132	111	86
16	12.5	9.3	–	●	179	176	157	141	118	91
17	12.5	9.3	–	●	190	187	167	150	126	97
18	15	11	–	●	202	198	176	158	133	103
19	15	11	–	●	213	209	186	167	141	108
20	15	11	–	●	224	220	196	176	148	114
21	17.5	13	–	●	235	231	206	185	155	120
22	17.5	13	–	●	246	242	216	194	163	125
23	17.5	13	–	●	258	253	225	202	170	131
24	17.5	13	–	●	269	264	235	211	178	137
25	20	15	–	●	280	275	245	220	185	143
26	20	15	–	●	291	286	255	229	192	148
27	20	15	–	●	302	297	265	238	200	154
28	25	18.5	–	●	314	308	274	246	207	160
29	25	18.5	–	●	325	319	284	255	215	165

● = available with that motor size (OSP4-17 / OSP6-17). Continued overleaf.

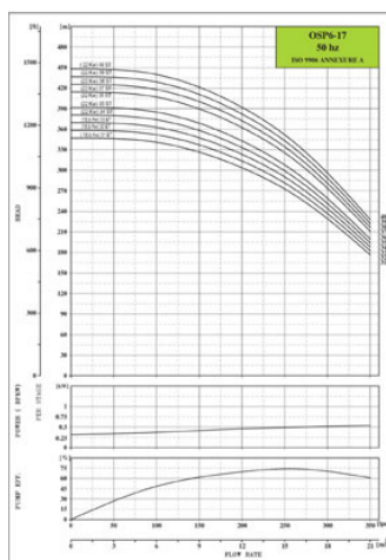
OSP-17

— continued · 30–60 stages

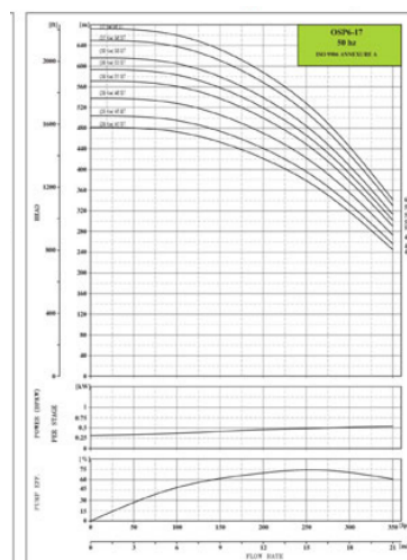
PUMP · MOTOR					TOTAL HEAD (M) AT FLOW RATE Q					
Stages	HP	kW	4"	6"	0 m ³ /h	6	12	15	18	21
					0 L/min	100	200	250	300	350
30	25	18.5	—	●	336	330	294	264	222	171
31	25	18.5	—	●	347	341	304	273	229	177
32	25	18.5	—	●	358	352	314	282	237	182
33	25	18.5	—	●	370	363	323	290	244	188
34	30	22	—	●	381	374	333	299	252	194
35	30	22	—	●	392	385	343	308	259	200
36	30	22	—	●	403	396	353	317	266	205
37	30	22	—	●	414	407	363	326	274	211
38	30	22	—	●	426	418	372	334	281	217
39	30	22	—	●	437	429	382	343	289	222
40	30	22	—	●	448	440	392	352	296	228
43	35	26	—	●	482	473	421	378	318	245
45	35	26	—	●	504	495	441	396	333	257
48	35	26	—	●	538	528	470	422	355	274
51	40	30	—	●	571	561	500	449	377	291
53	40	30	—	●	594	583	519	466	392	302
55	40	30	—	●	616	605	539	484	407	314
58	50	37	—	●	650	638	568	510	429	331
60	50	37	—	●	672	660	588	528	444	342

● = available with that motor size (OSP4-17 / OSP6-17). Bold column = duty point 15 m³/h (250 L/min). Speed approx. 2850 min⁻¹; ISO 9906 Annex A; 50 Hz.

Corrected (red): 4-stage shut-off head printed 39 m (below its own 44 m at 6 m³/h) → 45 m, midway between 3 and 5 stages (34 / 56 m), in both 4" and 6" tables — confirm.



OSP6-17 · 34–45 STAGES



OSP6-17 · 48–60 STAGES

6" pump · 4"/6"/8" motor

OSP-30

Performance · 4" · 6" · 8" motors

NOMINAL
30 m³/hFLOW
12–39 m³/hMAX. HEAD
616 mPOWER
1.1–55 kWOUTLET
3"RATINGS
42

PUMP · MOTOR

TOTAL HEAD (M) AT FLOW RATE Q

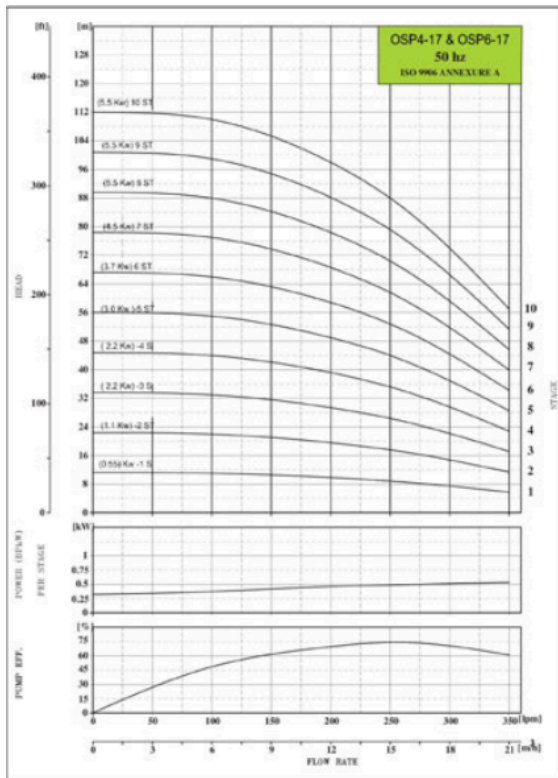
Stages	HP	kW	4"	6"	8"	0 m³/h	12	24	30	36	39
						0 L/min	200	400	500	600	650
1	1.5	1.1	●	–	–	11.4	10.6	8.8	7.5	5.4	4.2
2	3	2.2	●	●	–	23	21	18	15	11	8
3	4	3.0	●	●	–	34	32	26	23	16	13
4	5	3.7	●	●	–	46	42	35	30	22	17
5	6	4.5	●	●	–	54	50	42	36	26	20
5	7.5	5.5	–	●	–	57	53	44	38	27	21
6	7.5	5.5	–	●	–	68	64	53	45	32	25
7	10	7.5	–	●	–	80	74	62	53	38	29
8	10	7.5	–	●	–	91	85	70	60	43	34
9	12.5	9.3	–	●	–	103	98	79	68	49	38
10	12.5	9.3	–	●	–	114	106	88	75	54	42
11	12.5	9.3	–	●	–	125	117	97	83	59	46
12	15	11	–	●	–	137	127	106	90	65	50
13	15	11	–	●	–	148	138	114	98	70	55
14	17.5	13	–	●	–	160	148	123	105	76	59
15	17.5	13	–	●	–	171	159	132	113	81	63
16	20	15	–	●	–	182	170	141	120	86	67
17	20	15	–	●	–	194	180	150	128	92	71
18	25	18.5	–	●	–	205	191	158	135	97	76
19	25	18.5	–	●	–	217	201	167	143	103	80
20	25	18.5	–	●	–	228	212	176	150	108	84
21	25	18.5	–	●	–	239	223	185	158	113	88
22	30	22	–	●	–	251	233	194	165	119	92
23	30	22	–	●	–	262	244	202	173	124	97
24	30	22	–	●	–	274	254	211	180	130	101
25	30	22	–	●	–	285	265	220	188	135	105
26	35	26	–	●	–	296	276	229	195	140	109
27	35	26	–	●	–	308	286	238	203	146	113
28	35	26	–	●	–	319	297	246	210	151	118
29	35	26	–	●	–	331	307	255	218	157	122
30	35	26	–	●	–	342	318	264	225	162	126
31	40	30	–	●	–	353	329	273	233	167	130
32	40	30	–	●	–	365	339	282	240	173	134
33	40	30	–	●	–	376	350	290	248	178	139
34	40	30	–	●	–	388	360	299	255	184	143
35	40	30	–	●	–	399	371	308	263	189	147
39	50	37	–	●	–	445	413	343	293	211	164
43	50	37	–	●	–	490	456	378	323	232	181
46	60	45	–	–	●	524	488	405	345	248	193
49	60	45	–	–	●	559	519	431	368	265	206
52	75	55	–	–	●	593	551	458	390	281	218
54	75	55	–	–	●	616	572	475	405	292	227

● = available with that motor size. Bold column = duty point 30 m³/h (500 L/min).

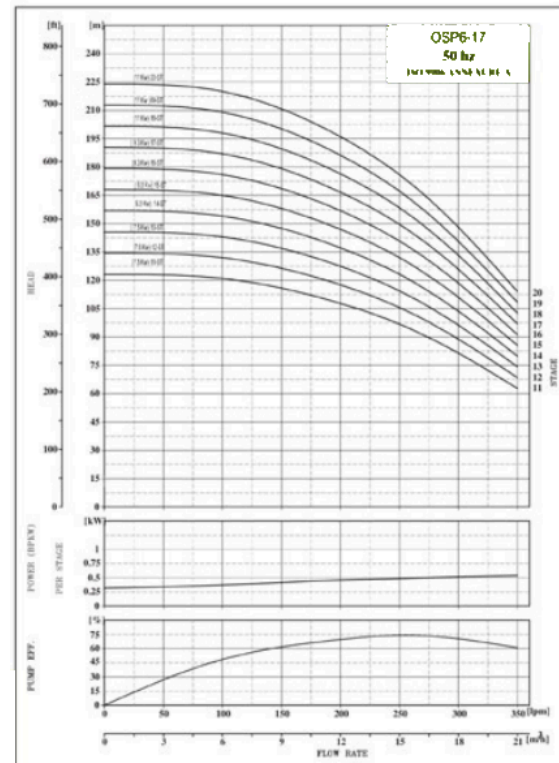
Corrected (red): 3 stages at 39 m³/h printed 23 m (above the 16 m at 36 m³/h; OSP4-30 gives 13) → 13 m. OSP8-30 stage count printed 59 between 46 and 52 → 49 (head 559 m fits 49 stages). OSP4-30 rows 3–5 had the Stage and kW columns swapped (e.g. "5 HP · 3.7 · 4") — realigned.

OSP-17

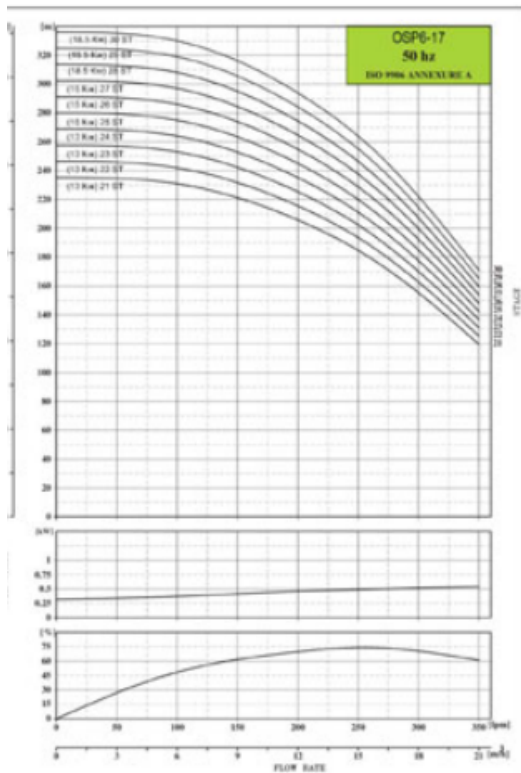
— Head, power per stage and pump efficiency · 50 Hz · ISO 9906 Annex A



OSP4-17 & OSP6-17 · 1-10 STAGES



OSP6-17 · 11-20 STAGES



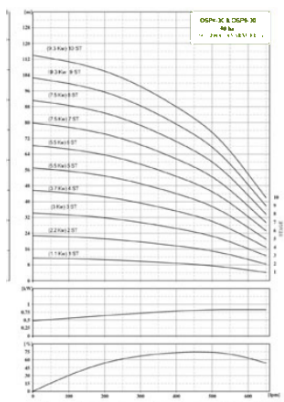
OSP6-17 · 21-33 STAGES

Curve conditions

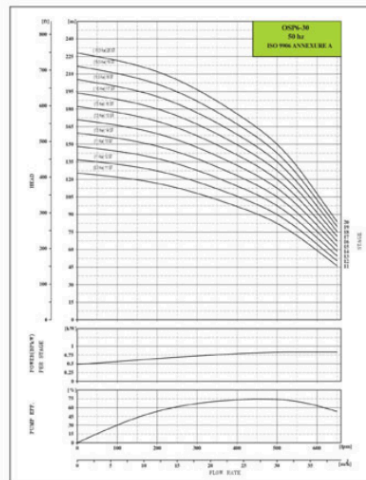
- **Q/H:** curves include losses such as non-return-valve losses at actual speed. Operation without the NRV raises the actual head at nominal performance by 0.5–1.0 m.
- **Power curve:** shaft power (BkW) per stage.
- **Efficiency curve:** pump-stage efficiency.
- Curve tolerances to **ISO 9906, Annex 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.
- Bold curves indicate the recommended performance range.

OSP-30

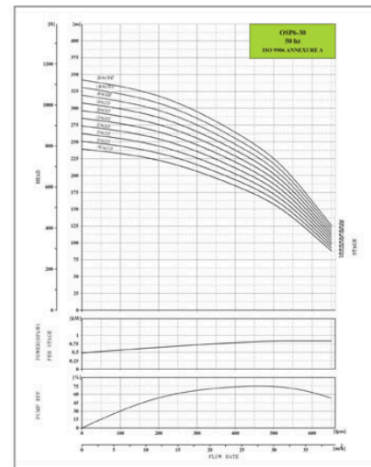
— Head, power per stage and pump efficiency · 50 Hz · ISO 9906 Annex A



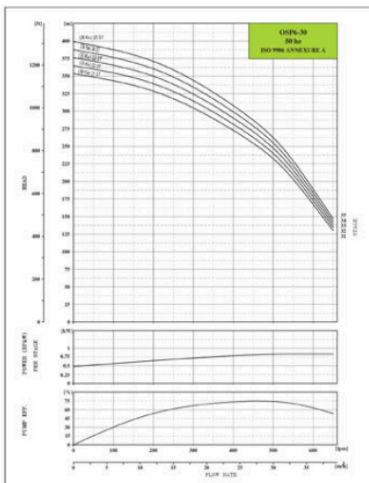
OSP4-30 & OSP6-30 · 1-11 STAGES



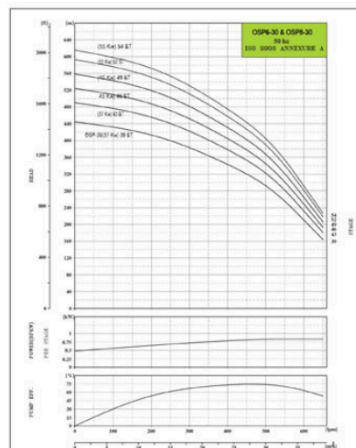
OSP6-30 · 12-21 STAGES



OSP6-30 · 22-30 STAGES



OSP6-30 · 31-43 STAGES



OSP6-30 & OSP8-30 · 39-54 STAGES

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.