



Ushering in Prosperity

Look At The Range We Have For Energy Saving

STAINLESS STEEL 6" SUBMERSIBLE PUMPS

FOR 4", 6" & 8" MOTOR

OSP6-17/30

OSWAL

S.S. PUMPS





S.S. Pump OSP-17/30

OSWAL submersible pumps & motors are well known for its quality, Reliability & excellent for all type of service purpose. **OSWAL** submersible pumps & motors are manufactured under supervision of highly qualified technical team with a stage wise rigid inspection procedure under TQM concepts.

OSWAL team are well known for their excellent services after sales.

The company has also obtained BIS certificate for ISI mark and through continuous process improvements & streamlining the quality system at par with the international standards has now acquired ISO:9001:2000 certifications.

Application of Bore well submersible pumps are Hospitals, Water circulation systems, Water supply systems of Government, Irrigation, Farms, Drip & sprinkler irrigation, Gardening, Nurseries, Domestic water supply, Multi-storeyed Building & Industrial water supply systems & Hotels.

OSWAL has successfully developed its energy efficient and cost efficient pump manufacturing of fully fabricated S.S.-304 with a quality level as per international standard. The company has offering quality product at a lowest price .the company has exporting pump sets to developed countries and the same quality is supply in domestic market.

OSWAL Submesible Pumpsets of moduler design suitable for under-water operation for universal fit, all mounting dimensions of pumps and motors are in accordance with NEMA standards. **OSWAL** submersible pumpset are of completely S.S.-304 construction with fabricated technology, light weight easy for handling, life longivity, pump shaft using Duplex steel for high wear resistance.

OSWAL WATER FILLED AND WATER COOLED SUBMERSIBLE MOTORS confirm to IS : 9283.& Pump set confirm to IS : 8034.

GENERAL DATA

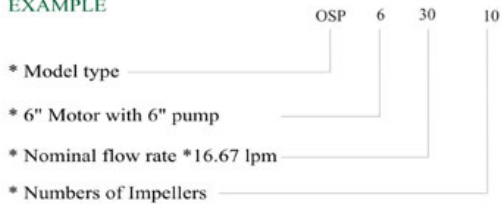
- * Duty Dish : 250 to 500 LPM.
- * Pumped liquid : Clean water free from solid, Chemically Natural & Close the characteristics of water.
- * Max. liquid temperature : 35°C.
- * Max. Quantity of sand : 40gm/m³.
- * Minimum Suction head required : 1.5 meter.
- * Starts/hours : max. 15 to 20

TYPE		OSP 17	OSP 30
Steel : S.S.-304		+	+
Connection: Rp (Inches)	BSP Thread	2.5"	3"
	NPT Thread	2.5"	3"

GENERAL DATA

PUMP MODEL TYPE KEY

EXAMPLE



- * Model type
- * 6" Motor with 6" pump
- * Nominal flow rate *16.67 lpm
- * Numbers of Impellers

PUMPED LIQUIDS

- * Clean, thin, non-aggressive liquids without solid particles.

OPERATING CONDITIONS

- * Flow Range (min. to max.) - 6-39 M³/h
- * Head, H : Maximum 670 m.

Maximum Liquid Temperature:

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

Operating pressure: Maximum 67 bar.

CURVE CONDITIONS

- * The conditions below apply to the curves shown on the following pages :





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OSP-17, OSP-30 CURVE

- * **Q/H** : The curves are inclusive of losses such as NRV losses at the actual speed. Operation without non-return valve will increase the actual head at nominal performance by 0.5 to 1.0 m.
- * **Power Curve** : (BPKW) For Particular Stage shows pump power.
- * **Efficiency Curve** : Efficiency shows pump stage efficiency.

FEATURES AND BENEFITS

A Wide Pump Range

- * We offers submersible pumps with energy-efficient duty points ranging from 15 to 30 m³/h. The pump range consist of many pump sizes (Stages) to match any duty point.

High Pumps Efficiency

- * Often pump efficiency is a neglected factor compared to the price variations are without importance of pump and motor efficiencies.

Example

- * Pumping water-30m³/h with a head of 60 meter.
- * When choosen stainless steel energy efficient pump, be saved (than other pumps) 4unit (kwh) per hour.
- * It save Rs. 4,60,000 in 10 year for 8 hours / day running)

Applications

- * We offers a complete range of pumps and motors with as a standard are made completely as stainless steel - 304. This provides for good wear resistance and a reduced risk of corrosion when pumping ordinary cold water with a minor content of chloride.

Low Installation Cost

- * These pumps have low weight facilitating the handling of pumps and resulting in low equipment costs and reduced installation and service time. In addition pumps will be as new after service due to the high wear resistance of stainless steel.

Bearing with Sand Channels

- * All bearing are water-Lubricated and have a octagone shape enabling sand particles.



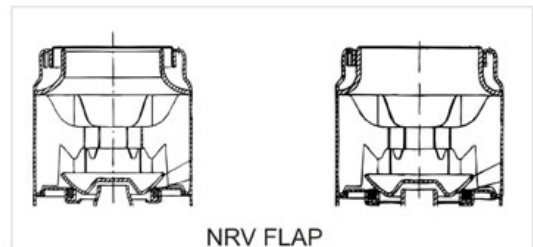
Inlet Strainer

- * The inlet strainer prevents particles over a certain size from entering the pump.



Non-Return Valve

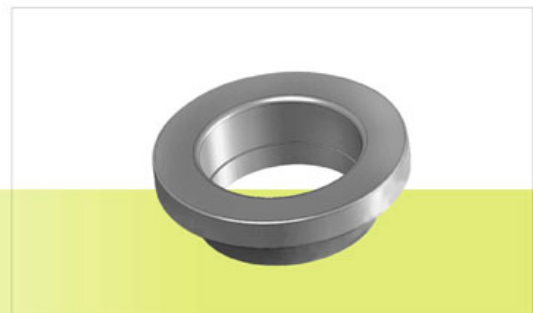
- * All pumps are equipped with a non-return valve in the valve casing preventing back flow in connection with pump stoppage.
- * Furthermore, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to the minimum.
- * The valve casing is designed for optimum hydraulic properties, to minimize the pressure loss across the valve and thus contributes to the high efficiency of the pump.



NRV FLAP

Stop Ring

- * The stop ring prevents damage to the pump during transport and in case of up-thrust in connection with start-up.
- * The stop ring, which is designed as a thrust bearing limits axial movements of the pump shaft.
- * Example : OSP - 30





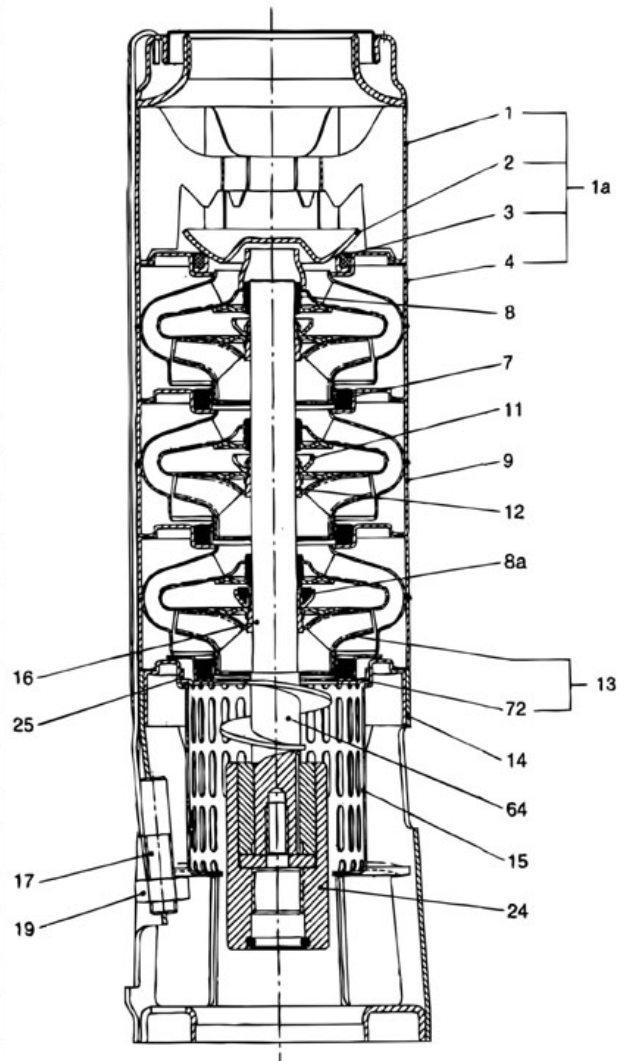
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GENERAL

- * Curve tolerance according to ISO 9906, Annex A&B.
- * The performance curves show pump performance at actual speed of standard motor range.
- * The speed of the motors is approximately:
6" motors : $n=2850 \text{ min}^{-1}$
- * The measurements were made with airless water at a temperature of 20°C. The curves apply to a kinematic viscosity of $1 \text{ mm}^2/\text{s}$.
When pumping liquids with a density higher than that a water, motors with correspondingly higher outputs must be used.
- * The bold curves indicate the performance range.

MATERIAL SPECIFICATION OSP -17

S.No.	Components	Material	Standard
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	Cabron /graphite Hy 22 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

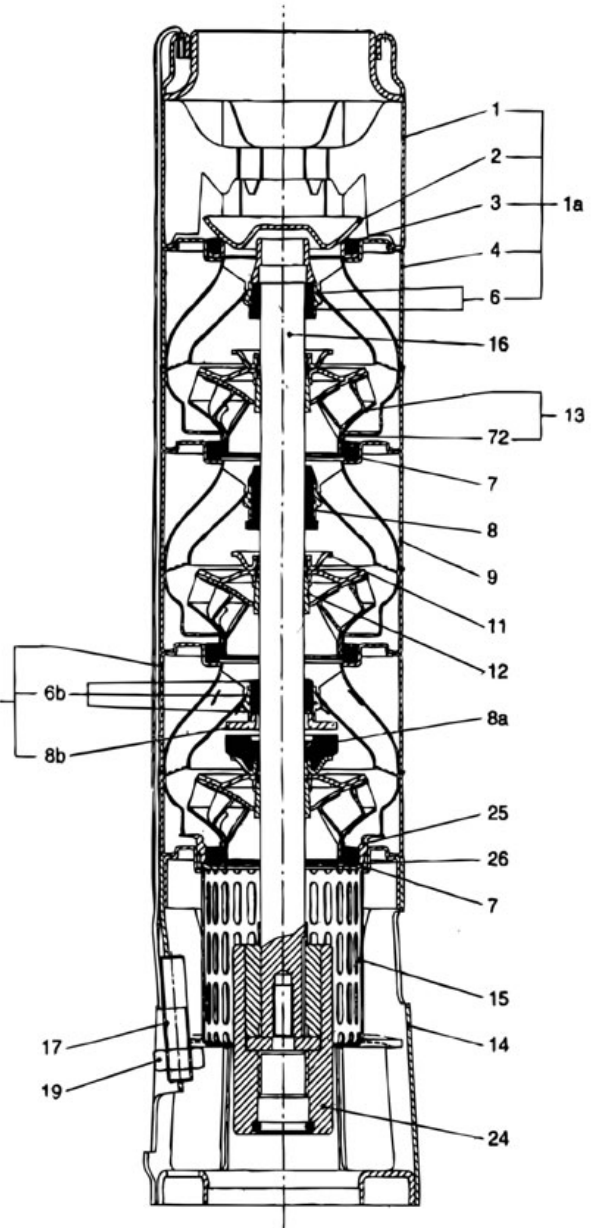




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MATERIAL SPECIFICATION OSP - 30

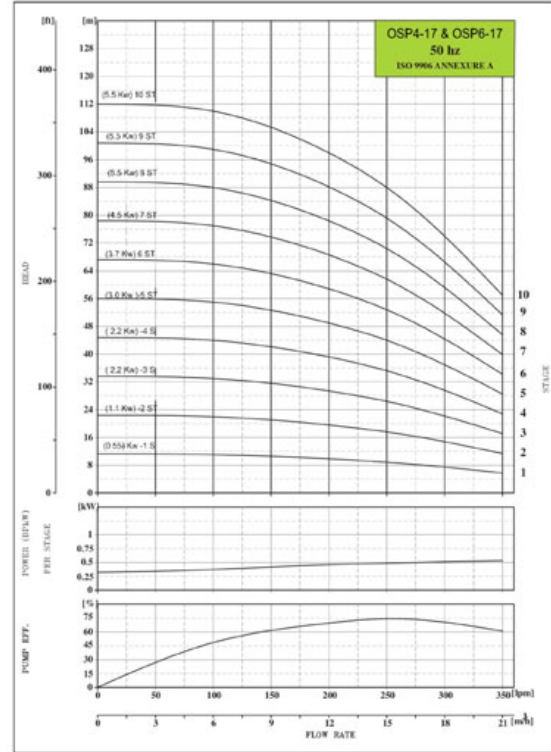
S.No.	Components	Material	Standard
1	Valve casing	Stainless steel	304
1a	Discharge chamber complete	Stainless steel	304
2	Valve cup	Stainless steel	304
3	Valve seat	Stainless steel +NBR	
4	Top intermediate chamber	Stainless steel	304
6	Upper bearing	NBR	
	Cap	Stainless steel	304
6b	Lower bearing	NBR	
	Cap	Stainless steel	304
7	Neck ring	NBR+Stainless steel	
8	Intermediate bearing.	NBR	
8a	Spacing washer for stop ring	Carbon/graphite Hy 22 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



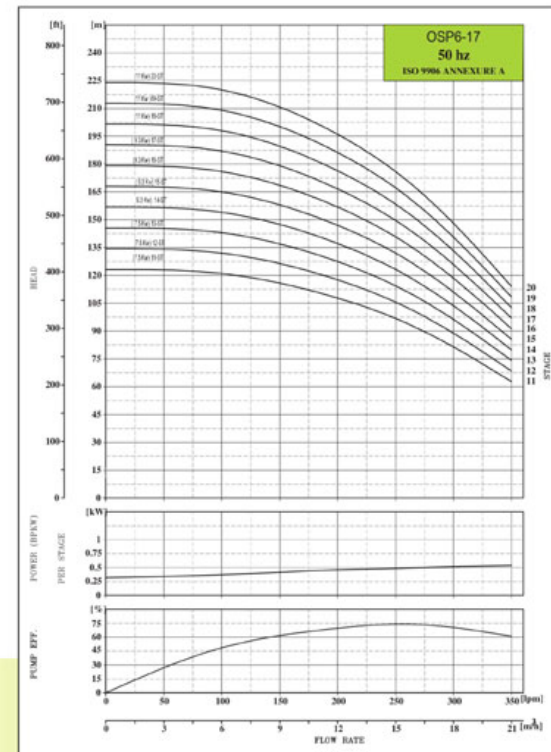


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PERFORMANCE TABLE OSP4-17										
MODEL	HP	STAGE	MOTOR POWER (KW)	DISCHARGE						
				M ³ /H (L.P.M.)	0	6	12	15	18	21
OSP4-17	0.75	1	0.55	HEAD (METERS)	11.2	11.0	9.8	8.8	7.4	5.7
OSP4-17	1.5	2	1.1		22	22	20	18	15	11
OSP4-17	3	3	2.2		34	33	29	26	22	17
OSP4-17	3	4	2.2		39	44	39	35	30	23
OSP4-17	4	5	3.0		56	55	49	44	37	29
OSP4-17	5	6	3.7		67	66	59	53	44	34
OSP4-17	6	7	4.5		78	77	69	62	52	40

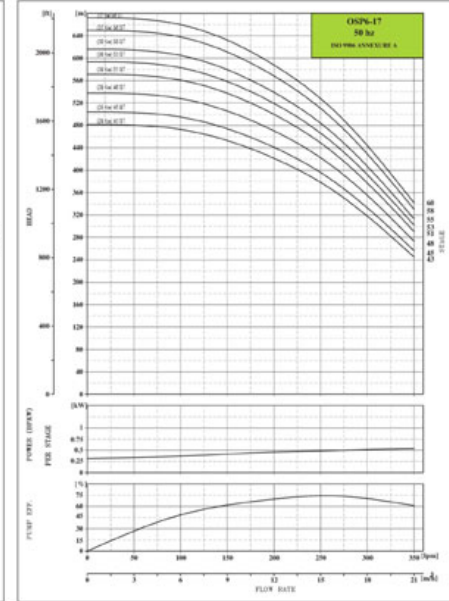
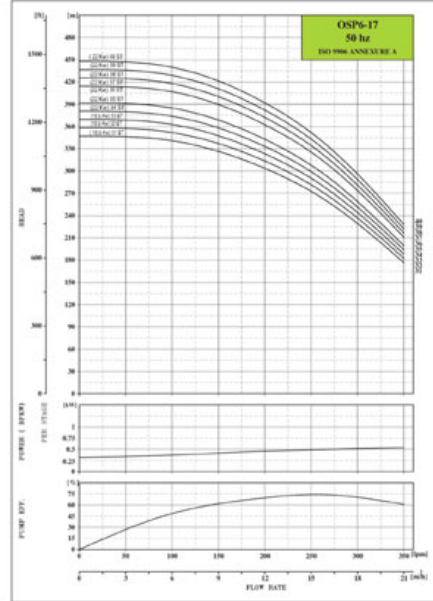
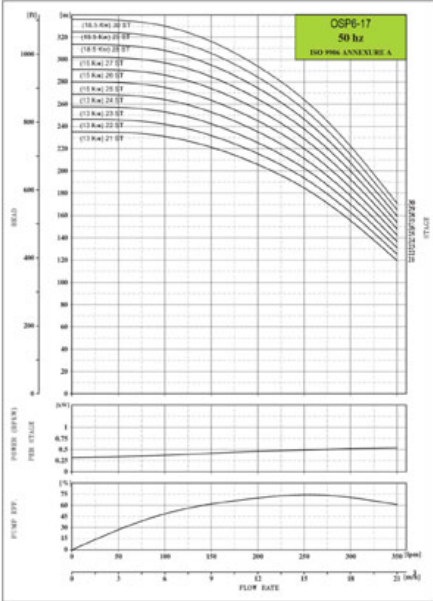


PERFORMANCE TABLE OSP6-17										
MODEL	HP	STAGE	MOTOR POWER (KW)	DISCHARGE						
				M ³ /H (L.P.M.)	0	6	12	15	18	21
OSP6-17	3	3	2.2	HEAD (METERS)	34	33	29	26	22	17
OSP6-17	3	4	2.2		39	44	39	35	30	23
OSP6-17	4	5	3.0		56	55	49	44	37	29
OSP6-17	5	6	3.7		67	66	59	53	44	34
OSP6-17	6	7	4.5		78	77	69	62	52	40
OSP6-17	7.5	8	5.5		90	88	78	70	59	46
OSP6-17	7.5	9	5.5		101	99	88	79	67	51
OSP6-17	7.5	10	5.5		112	110	98	88	74	57
OSP6-17	10	11	7.5		123	121	108	97	81	63
OSP6-17	10	12	7.5		134	132	118	106	89	68
OSP6-17	10	13	7.5		146	143	127	114	96	74
OSP6-17	12.5	14	9.3		157	154	137	123	104	80
OSP6-17	12.5	15	9.3		168	165	147	132	111	86
OSP6-17	12.5	16	9.3		179	176	157	141	118	91
OSP6-17	12.5	17	9.3		190	187	167	150	126	97
OSP6-17	15	18	11		202	198	176	158	133	103
OSP6-17	15	19	11		213	209	186	167	141	108
OSP6-17	15	20	11		224	220	196	176	148	114
OSP6-17	17.5	21	13		235	231	206	185	155	120
OSP6-17	17.5	22	13		246	242	216	194	163	125
OSP6-17	17.5	23	13		258	253	225	202	170	131
OSP6-17	17.5	24	13		269	264	235	211	178	137
OSP6-17	20	25	15		280	275	245	220	185	143
OSP6-17	20	26	15		291	286	255	229	192	148
OSP6-17	20	27	15		302	297	265	238	200	154
OSP6-17	25	28	18.5		314	308	274	246	207	160
OSP6-17	25	29	18.5		325	319	284	255	215	165
OSP6-17	25	30	18.5		336	330	294	264	222	171
OSP6-17	25	31	18.5		347	341	304	273	229	177
OSP6-17	25	32	18.5		358	352	314	282	237	182
OSP6-17	25	33	18.5	370	363	323	290	244	188	
OSP6-17	30	34	22	381	374	333	299	252	194	
OSP6-17	30	35	22	392	385	343	308	259	200	
OSP6-17	30	36	22	403	396	353	317	266	205	
OSP6-17	30	37	22	414	407	363	326	274	211	
OSP6-17	30	38	22	426	418	372	334	281	217	
OSP6-17	30	39	22	437	429	382	343	289	222	
OSP6-17	30	40	22	448	440	392	352	296	228	
OSP6-17	35	43	26	482	473	421	378	318	245	
OSP6-17	35	45	26	504	495	441	396	333	257	
OSP6-17	35	48	26	538	528	470	422	355	274	
OSP6-17	40	51	30	571	561	500	449	377	291	
OSP6-17	40	53	30	594	583	519	466	392	302	
OSP6-17	40	55	30	616	605	539	484	407	314	
OSP6-17	50	58	37	650	638	568	510	429	331	
OSP6-17	50	60	37	672	660	588	528	444	342	





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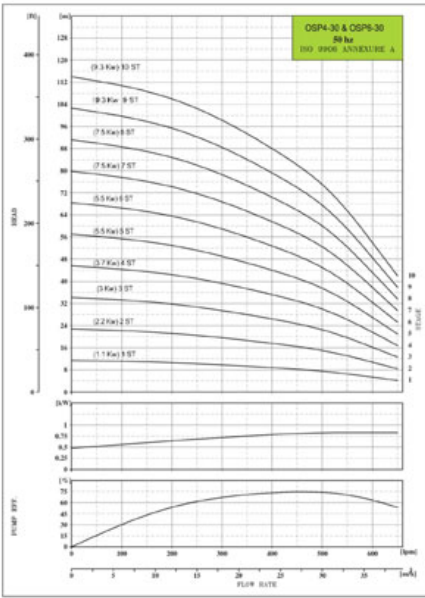


PERFORMANCE TABLE OSP4-30

MODEL	HP	STAGE	MOTOR POWER (KW)	DISCHARGE						
				M'/H (L.P.M.)	0	12	24	30	36	39
OSP4-30	1.5	1	1.1	HEAD (METERS)	11.4	10.6	8.8	7.5	5.4	4.2
OSP4-30	3	2	2.2		23	21	18	15	11	8
OSP4-30	4	3	3		34	32	26	23	16	13
OSP4-30	5	3.7	4		46	42	35	30	22	17
OSP4-30	6	4.5	5		54	50	42	36	26	20

PERFORMANCE TABLE OSP8-30

MODEL	HP	STAGE	MOTOR POWER (KW)	DISCHARGE						
				M'/H (L.P.M.)	0	12	24	30	36	39
OSP8-30	60	46	45	HEAD (METERS)	524	488	405	345	248	193
OSP8-30	60	59	45		559	519	431	368	265	206
OSP8-30	75	52	55		593	551	458	390	281	218
OSP8-30	75	54	55		616	572	475	405	292	227

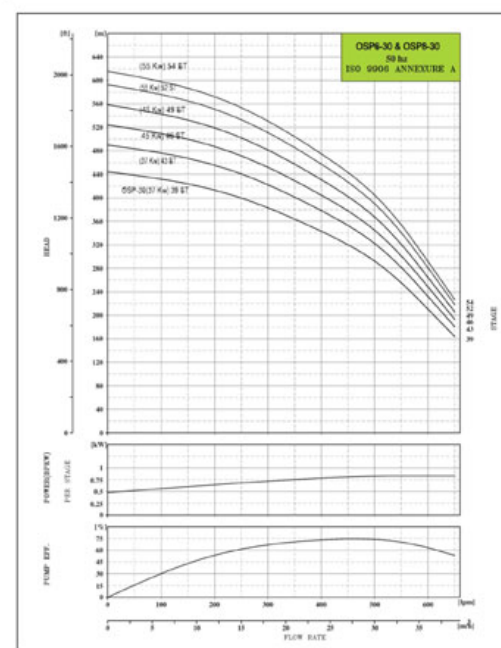
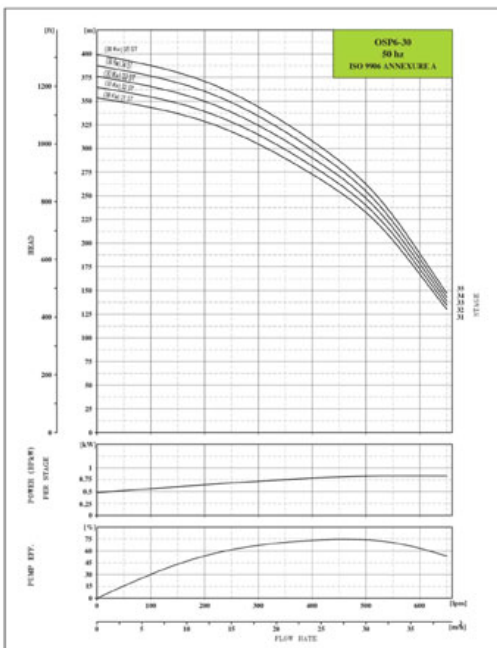
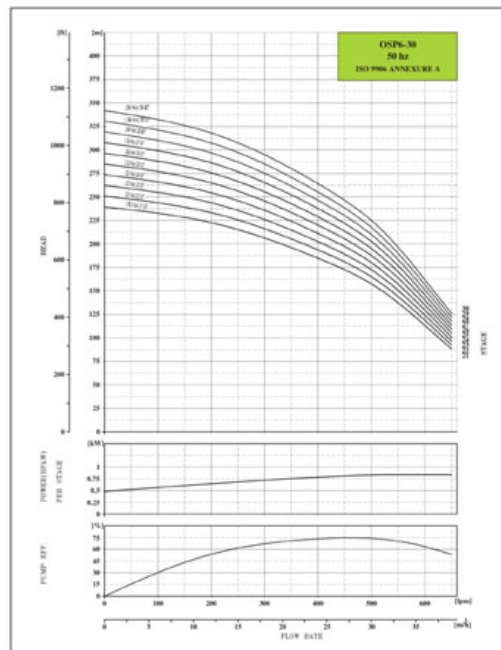
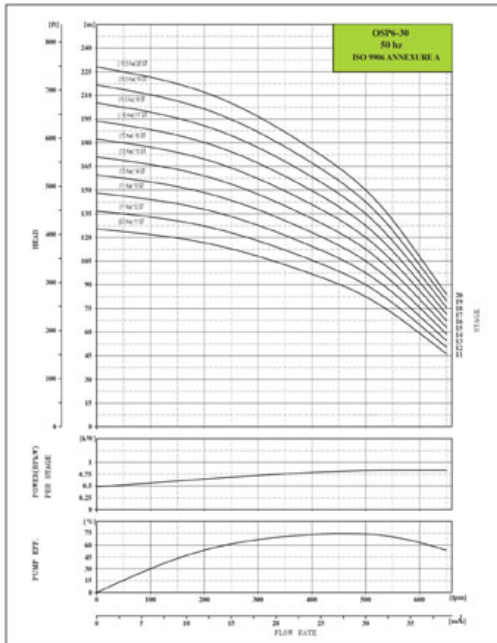


PERFORMANCE TABLE OSP6-30

MODEL	HP	STAGE	MOTOR POWER (KW)	DISCHARGE						
				M'/H (L.P.M.)	0	12	24	30	36	39
OSP6-30	3	2	2.2	HEAD (METERS)	23	21	18	15	11	8
OSP6-30	4	3	3.0		34	32	26	23	16	13
OSP6-30	5	4	3.7		46	42	35	30	22	17
OSP6-30	6	5	4.5		54	50	42	36	26	20
OSP6-30	7.5	5	5.5		57	53	44	38	27	21
OSP6-30	7.5	6	5.5		68	64	53	45	32	25
OSP6-30	10	7	7.5		80	74	62	53	38	29
OSP6-30	10	8	7.5		91	85	70	60	43	34
OSP6-30	12.5	9	9.3		103	98	79	68	49	38
OSP6-30	12.5	10	9.3		114	106	88	75	54	42
OSP6-30	12.5	11	9.3		125	117	97	83	59	46
OSP6-30	15	12	11		137	127	106	90	65	50
OSP6-30	15	13	11		148	138	114	98	70	55
OSP6-30	17.5	14	13		160	148	123	105	76	59
OSP6-30	17.5	15	13		171	159	132	113	81	63
OSP6-30	20	16	15		182	170	141	120	86	67
OSP6-30	20	17	15		194	180	150	128	92	71
OSP6-30	25	18	18.5		205	191	158	135	97	76
OSP6-30	25	19	18.5		217	201	167	143	103	80
OSP6-30	25	20	18.5		228	212	176	150	108	84
OSP6-30	25	21	18.5		239	223	185	158	113	88
OSP6-30	30	22	22		251	233	194	165	119	92
OSP6-30	30	23	22		262	244	202	173	124	97
OSP6-30	30	24	22		274	254	211	180	130	101
OSP6-30	30	25	22		285	265	220	188	135	105
OSP6-30	35	26	26		296	276	229	195	140	109
OSP6-30	35	27	26		308	286	238	203	146	113
OSP6-30	35	28	26		319	297	246	210	151	118
OSP6-30	35	29	26		331	307	255	218	157	122
OSP6-30	35	30	26		342	318	264	225	162	126
OSP6-30	40	31	30	353	329	273	233	167	130	
OSP6-30	40	32	30	365	339	282	240	173	134	
OSP6-30	40	33	30	376	350	290	248	178	139	
OSP6-30	40	34	30	388	360	299	255	184	143	
OSP6-30	40	35	30	399	371	308	263	189	147	
OSP6-30	50	39	37	445	413	343	293	211	164	
OSP6-30	50	43	37	490	456	378	323	232	181	



S.S. Pump OSP-17/30



Warranty : We provide warranty for a period of 12 months as per our standard terms and conditions mention in quotation/offer.
 * The manufacturer reserve the right to change the design, specification without prior notice.
 Exclusively manufactured by :

Oswal Pumps Ltd.

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OTHER RANGES :

