



Ushering in Prosperity

Look At The Range We Have For Energy Saving

STAINLESS STEEL 6" SUBMERSIBLE PUMPS

FOR 4", 6" MOTOR

OSP 9/12

OSWAL

S.S. PUMPS





S.S. Pump OSP 9/12

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

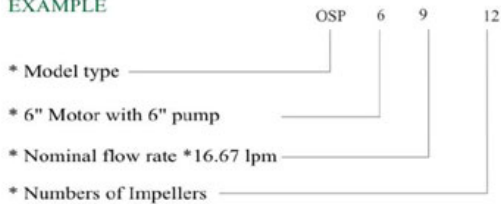
- * Duty Dish : 150 to 200 LPM.
- * Pumped liquid : Clean water free from solid, Chemically Natural & Close the characteristics of water.
- * Max. liquid temperature : 35°C.
- * Max. Quantity of sand : 40gm/m³.
- * Minimum Suction head required : 1.5 meter.
- * Starts/hours : max. 15 to 20

TYPE		OSP 9	OSP 12
Steel : S.S.-304		+	+
Connection: Rp (Inches)	BSP Thread	2"	2.5"
	NPT Thread	2"	2.5"

GENERAL DATA

PUMP MODEL TYPE KEY

EXAMPLE



PUMPED LIQUIDS

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

OPERATING CONDITIONS

- * Flow Rate (min. to max.) - 6-18 M³/h
- * Head, H : Maximum 450 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-9, OSP-12 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 9 to 12 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-12m³/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.

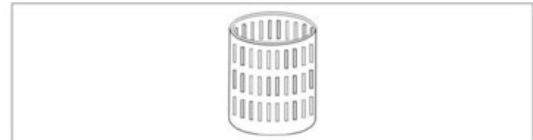
Bearing with Sand Channels

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



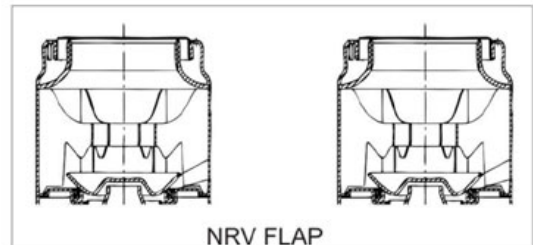
Inlet Strainer

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



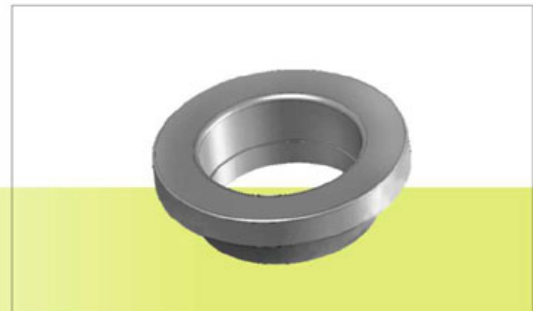
Non-Return Valve

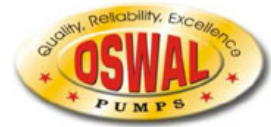
- * All pumps are equipped with a non-return valve in the valve casing preventing back flow in connection with pump stoppage.
- * Furthermore, the short closing time of the non-return valve means that the risk of destructive water hammer is reduced to the minimum.
- * The valve casing is designed for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



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-9





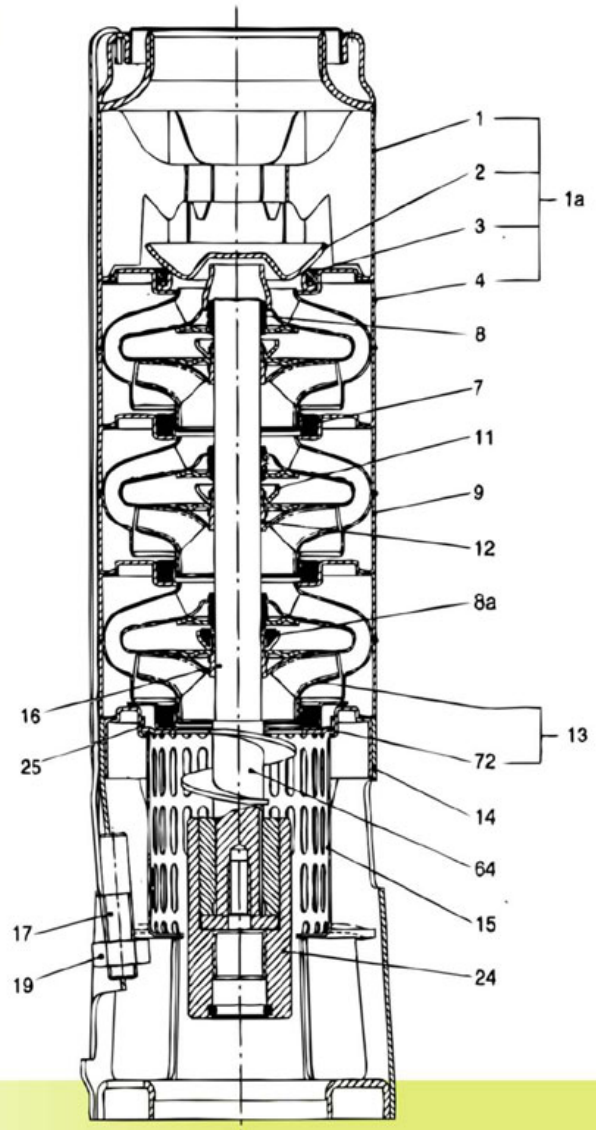
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GENERAL

- * 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.

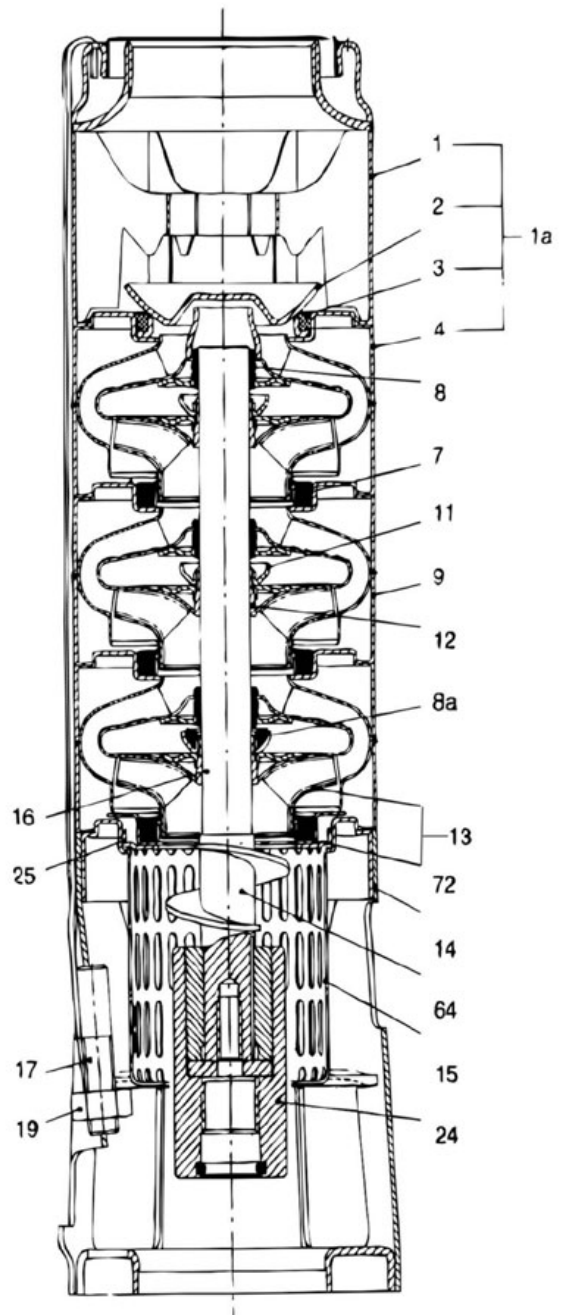
MATERIAL SPECIFICATION OSP 9

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	
4	Top intermediate chamber	Stainless steel	304
6	Top bearing	NBR	
7	Neck ring	NBR/PPS	
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



MATERIAL SPECIFICATION OSP 12

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	304
4	Top intermediate chamber	Stainless steel	304
6	Top bearing	NBR	
7	Neck ring	NBR/PPS	
8	Intermediate bearing	NBR	
8a	Spacing washer	Carbon /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





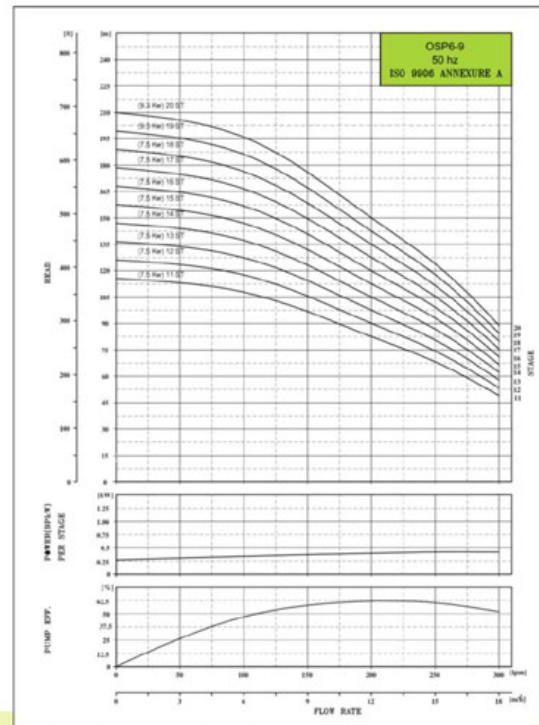
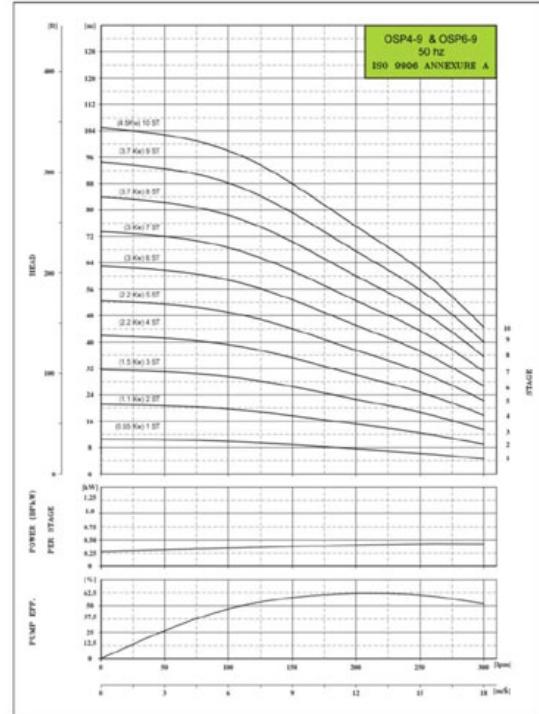
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PERFORMANCE TABLE OSP4-9

MODEL	HP	MOTOR POWER (KW)	STAGE	DEL. SIZE IN MM	DISCHARGE				
					M ³ /H (L.P.M.)	6	9	12	15
OSP4-9	0.75	0.55	1	50	10.5	9.8	8.8	7.5	6.2
OSP4-9	1.5	1.1	2	50	21	20	18	15	12
OSP4-9	2	1.5	3	50	32	29	26	23	19
OSP4-9	3	2.2	4	50	42	39	35	30	25
OSP4-9	3	2.2	5	50	53	49	44	38	31
OSP4-9	4	3	6	50	63	59	53	45	37
OSP4-9	4	3	7	50	74	69	62	53	43
OSP4-9	5	3.7	8	50	84	78	70	60	50
OSP4-9	5	3.7	9	50	95	88	79	68	56
OSP4-9	6	4.5	10	50	105	98	88	75	62

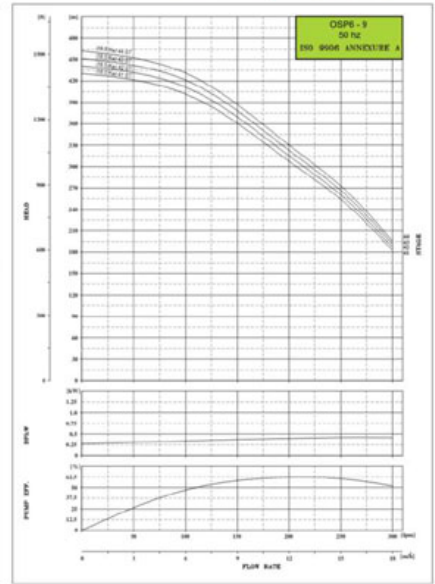
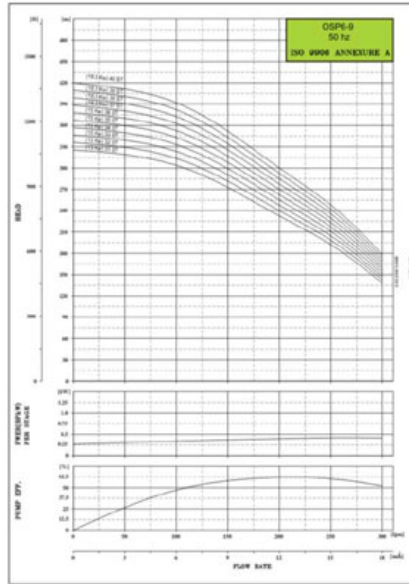
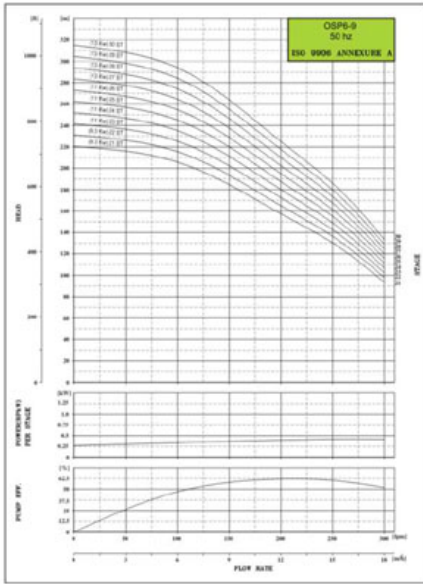
PERFORMANCE TABLE OSP6-9

MODEL	HP	MOTOR POWER (KW)	STAGE	DEL. SIZE IN MM	DISCHARGE				
					M ³ /H (L.P.M.)	6	9	12	15
OSP6-9	3	2.2	4	50	42	39	35	30	25
OSP6-9	3	2.2	5	50	53	49	44	38	31
OSP6-9	4	3	6	50	63	59	53	45	37
OSP6-9	4	3	7	50	74	69	62	53	43
OSP6-9	5	3.7	8	50	84	78	70	60	50
OSP6-9	5	3.7	9	50	95	88	79	68	56
OSP6-9	6	4.5	10	50	105	98	88	75	62
OSP6-9	7.5	5.5	11	50	116	108	97	83	68
OSP6-9	7.5	5.5	12	50	126	118	106	90	74
OSP6-9	7.5	5.5	13	50	137	127	114	98	81
OSP6-9	10	7.5	14	50	147	137	123	105	87
OSP6-9	10	7.5	15	50	158	147	132	113	93
OSP6-9	10	7.5	16	50	168	157	141	120	99
OSP6-9	10	7.5	17	50	179	167	150	128	105
OSP6-9	10	7.5	18	50	189	176	158	135	112
OSP6-9	12.5	9.3	19	50	200	186	167	143	118
OSP6-9	12.5	9.3	20	50	210	196	176	150	124
OSP6-9	12.5	9.3	21	50	221	206	185	158	130
OSP6-9	12.5	9.3	22	50	231	216	194	165	136
OSP6-9	15	11	23	50	242	225	202	173	143
OSP6-9	15	11	24	50	252	235	211	180	149
OSP6-9	15	11	25	50	263	245	220	188	15
OSP6-9	15	11	26	50	273	255	229	195	161
OSP6-9	17.5	13	27	50	284	265	238	203	167
OSP6-9	17.5	13	28	50	294	274	246	210	174
OSP6-9	17.5	13	29	50	305	284	255	218	180
OSP6-9	17.5	13	30	50	315	294	264	225	186
OSP6-9	17.5	13	31	50	326	304	273	233	192
OSP6-9	20	15	32	50	336	314	282	240	198
OSP6-9	20	15	33	50	347	323	290	248	205
OSP6-9	20	15	34	50	357	333	299	255	211
OSP6-9	20	15	35	50	368	343	308	263	217
OSP6-9	20	15	36	50	378	353	317	270	223
OSP6-9	25	18.5	37	50	389	363	326	278	229
OSP6-9	25	18.5	38	50	399	372	334	285	236
OSP6-9	25	18.5	39	50	410	382	343	293	242
OSP6-9	25	18.5	40	50	420	392	352	300	248
OSP6-9	25	18.5	41	50	431	402	361	308	254
OSP6-9	25	18.5	42	50	441	412	370	315	260
OSP6-9	25	18.5	43	50	452	421	378	323	267
OSP6-9	25	18.5	44	50	462	431	387	330	273





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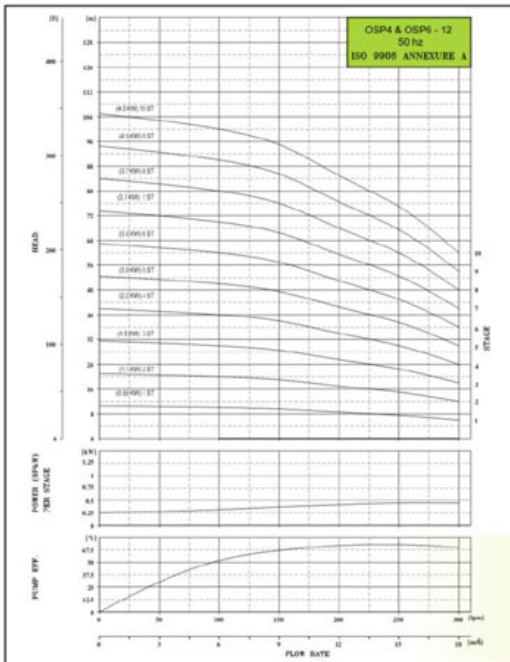


PERFORMANCE TABLE OSP4-12

MODEL	HP	MOTOR POWER (KW)	STAGE	DEL. SIZE IN MM	M ³ /H (L.P.M.)	DISCHARGE					
						0	6	9	12	15	18
HEAD (METERS)	OSP4-12	0.75	0.55	1	65	10.5	10.0	9.5	8.5	7.5	6
	OSP4-12	1.5	1.1	2	65	21	20	19	17	15	12
	OSP4-12	2	1.5	3	65	32	30	29	26	23	18
	OSP4-12	3	2.2	4	65	42	40	38	34	30	24
	OSP4-12	4	3	5	65	53	50	48	43	38	30
	OSP4-12	4	3	6	65	63	60	57	51	45	36
	OSP4-12	5	3.7	7	65	74	70	67	60	53	42
	OSP4-12	5	3.7	8	65	84	80	76	68	60	48
	OSP4-12	6	4.5	9	65	95	90	86	77	68	54
	OSP4-12	6	4.5	10	65	105	100	95	85	75	60

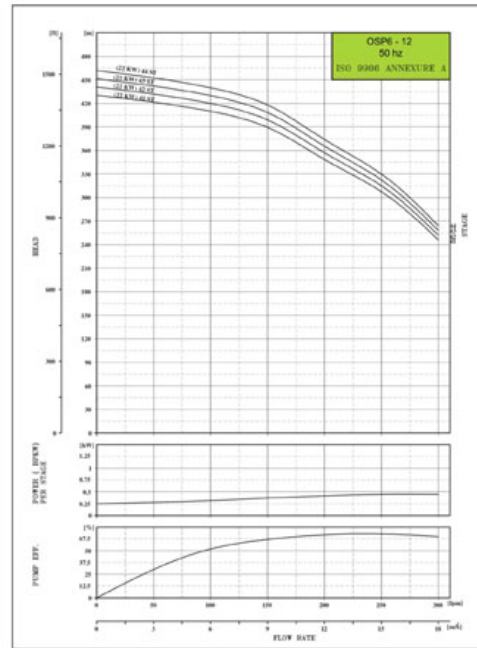
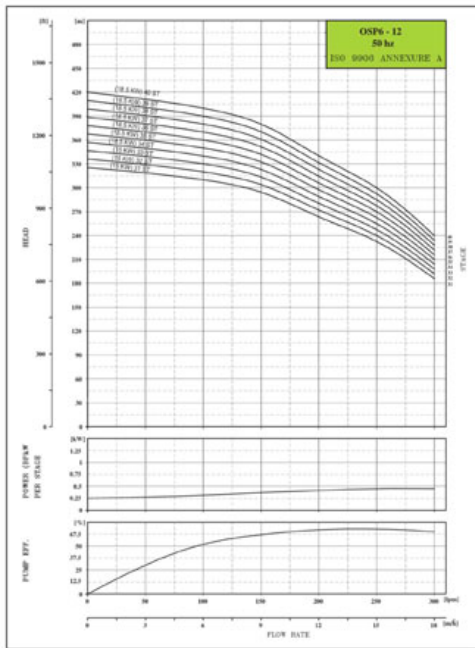
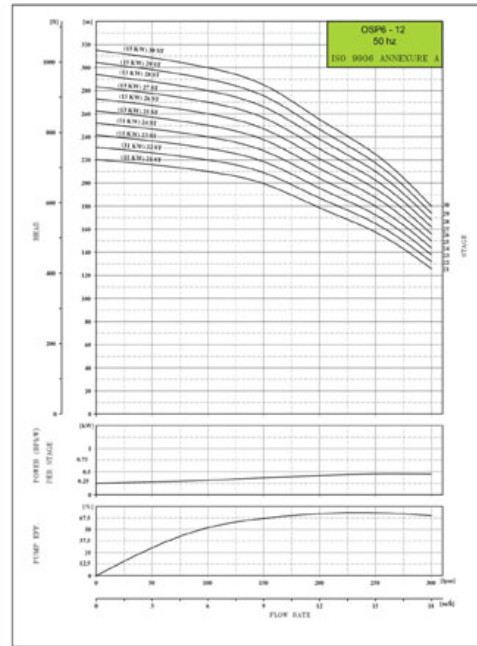
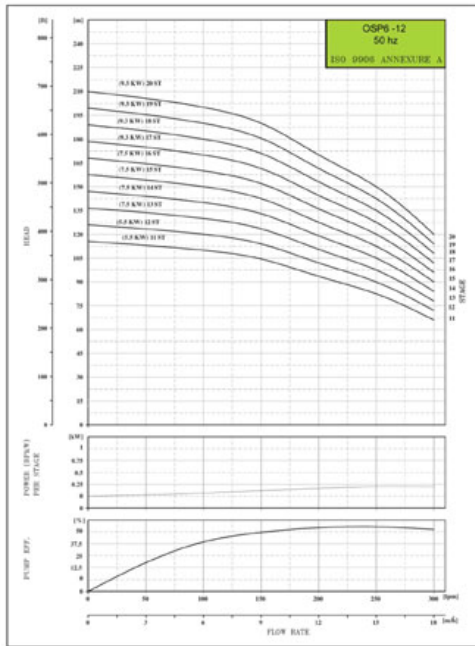
PERFORMANCE TABLE OSP6-12

MODEL	HP	MOTOR POWER (KW)	STAGE	DEL. SIZE IN MM	M ³ /H (L.P.M.)	DISCHARGE					
						0	6	9	12	15	18
HEAD (METERS)	OSP6-12	3	2.2	4	65	42.0	40.0	38.0	34.0	30.0	24.0
	OSP6-12	4	3	5	65	53	50	48	43	38	30
	OSP6-12	4	3	6	65	63	60	57	51	45	36
	OSP6-12	5	3.7	7	65	74	70	67	60	53	42
	OSP6-12	5	3.7	8	65	84	80	76	68	60	48
	OSP6-12	6	4.5	9	65	95	90	86	77	68	54
	OSP6-12	6	4.5	10	65	105	100	95	85	75	60
	OSP6-12	5	3.7	8	65	84	80	76	68	60	48
	OSP6-12	6	4.5	9	65	95	90	86	77	68	54
	OSP6-12	6	4.5	10	65	105	100	95	85	75	60
	OSP6-12	7.5	5.5	11	65	116	110	105	94	83	66
	OSP6-12	7.5	5.5	12	65	126	120	114	102	90	72
	OSP6-12	10	7.5	13	65	137	130	124	111	98	78
	OSP6-12	10	7.5	14	65	147	140	133	119	105	84
	OSP6-12	10	7.5	15	65	158	150	143	128	113	90
	OSP6-12	10	7.5	16	65	168	160	152	136	120	96
	OSP6-12	12.5	9.3	17	65	179	170	162	145	128	102
	OSP6-12	12.5	9.3	18	65	189	180	171	153	135	108
	OSP6-12	12.5	9.3	19	65	200	190	181	162	143	114
	OSP6-12	12.5	9.3	20	65	210	200	190	170	150	120
	OSP6-12	15	11	21	65	221	210	200	179	158	126
	OSP6-12	15	11	22	65	231	220	209	187	165	132
	OSP6-12	15	11	23	65	242	230	219	196	173	138
	OSP6-12	15	11	24	65	252	240	228	204	180	144
	OSP6-12	17.5	13	25	65	263	250	238	213	188	150
	OSP6-12	17.5	13	26	65	273	260	247	221	195	156
	OSP6-12	17.5	13	27	65	284	270	257	230	203	162
	OSP6-12	17.5	13	28	65	294	280	266	238	210	168
	OSP6-12	20	15	29	65	305	290	276	247	218	174
	OSP6-12	20	15	30	65	315	300	285	255	225	180
	OSP6-12	20	15	31	65	326	310	295	264	233	186
	OSP6-12	20	15	32	65	336	320	304	272	240	192
	OSP6-12	20	15	33	65	347	330	314	281	248	198
	OSP6-12	25	18.5	34	65	357	340	323	289	255	204
	OSP6-12	25	18.5	35	65	368	350	333	298	263	210
	OSP6-12	25	18.5	36	65	378	360	342	306	270	216
	OSP6-12	25	18.5	37	65	389	370	352	315	278	222
	OSP6-12	25	18.5	38	65	399	380	362	323	285	228
	OSP6-12	25	18.5	39	65	410	390	371	332	293	234
	OSP6-12	25	18.5	40	65	420	400	380	340	300	240
	OSP6-12	30	22	41	65	431	410	390	349	308	246
	OSP6-12	30	22	42	65	441	420	399	357	315	252
	OSP6-12	30	22	43	65	452	430	409	366	323	258
	OSP6-12	30	22	44	65	462	440	418	374	330	264





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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 :

