An ISO 9001:2000 Certified Company

CYRUS

Quality, Reliability, Excellence

OSWAL PUMPS

OSWAL

Ushering in Prosperity

Look At The Range We Have For Energy Saving

Stainless Steel 8" Submersible Pump For 8" Motor

S.S. Pumps

An ISO 9001:2000 Certified Company

S.S. Pump OSP8-77/95

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.
OSWALSubmesible 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

* Operating Range : 1200 LPM to 1600 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 77	OSP 95
Steel : S.S.-304		+	+
Connection: Rp (Inches)	BSP Thread	5	5
	NPT Thread	5	5
Flange Connection		5"	5"

GENERAL DATA

PUMP MODEL TYPE KEY EXAMPLE

OSP 8 95 5 A B

* Model type
* 8" Motor with 8" pump
* Nominal flow rate *16.67 lpm
* Numbers of Impellers
* First impellers with reduced diameter (A,B,C)
* Second impellers with reduced diameter (A,B,C)

PUMPED LIQUIDS

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

OPERATING CONDITIONS

* Flow Rate, Q : 48 - 120 m³/h.
* Head, H : Maximum 425m.

Maximum Liquid Temperature:

Motor	Installation		
	Flow velocity-past motor	Vertical	Horizontal
8"	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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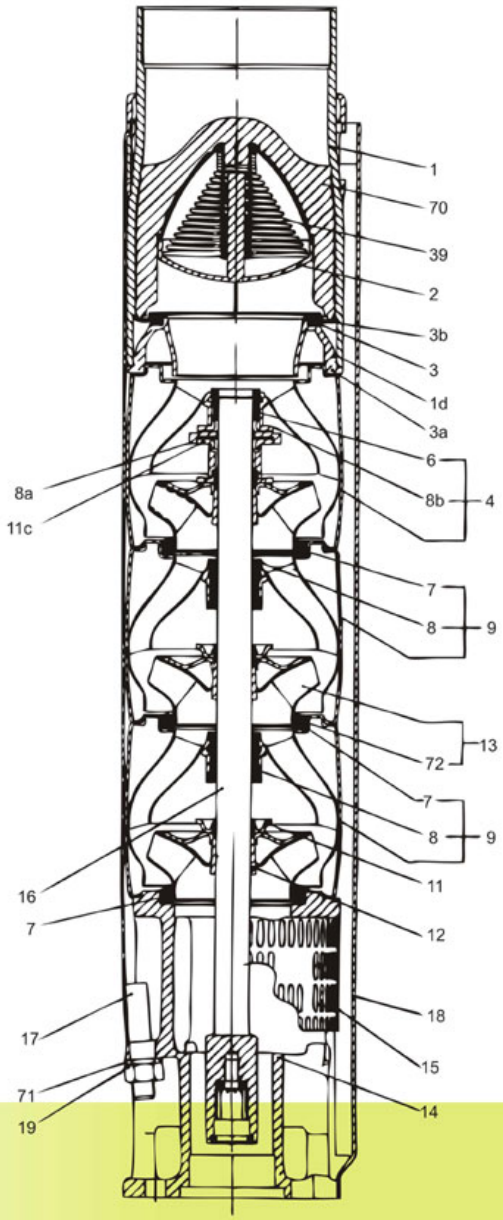
GENERAL

* 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:
  8" motors : n=2850 min^{-1}
* The measurements were made with airless water at a temperature of 20°c. The curves apply to a kinematic viscosity of 1mm^2/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

S.No.	Components	Material	Standard
1	Valve Casing	Stainless Steel	304
2	O-Ring	NBR	
3	Valve Cup	Stainless Steel	304
4	Valve Seat	Stainless Steel	304
5	Lower Valve Seat Strainer	Stainless Steel	304
6	Upper Valve Seat Strainer	Stainless Steel	304
7	Top Chamber	Stainless Steel	304
8	Upper Bearing	Stainless Steel NBR	304
9	Neck Ring	NBR / S.S - 304 Ring	
10	Bearing	NBR	
11	Washer for Stop Ring	Carbon/graphite Hy22 in PTFE mass	
12	Stop Ring	Stainless Steel	304
13	Chamber	Stainless Steel	
14	Split Cone Nut	Stainless Steel	304
15	Nut for Stop Ring	Stainless Steel	304
16	Split Cone	Stainless Steel	304
17	Impeller	Stainless Steel	304
18	Suction Interconnector	Stainless Steel	304
19	Strainer	Stainless Steel	304
20	Shaft Complete	Stainless Steel	Duplex Steel
21	Strap	Stainless Steel	304
22	Cable Guard	Stainless Steel	304
23	Nut for Strap	Stainless Steel	304
24	Spring for Valve Cup	Stainless Steel	304
25	Valve Guide	Stainless Steel	304
26	Washer	Stainless Steel	304
27	Wear Ring	Stainless Steel	304



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OSP8-77, OSP8-95 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 48 to 120 m^3/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-77m^3/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

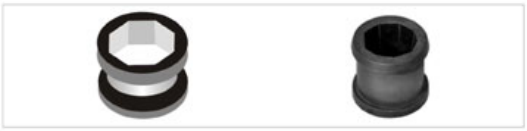
* We offers a complete range of pumps and motors with as a standard are made completely as stainless steel - 304. This provides for good wear resistance and a reduced risk of corrosion when pumping ordinary cold water with a minor content of chloride.

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.

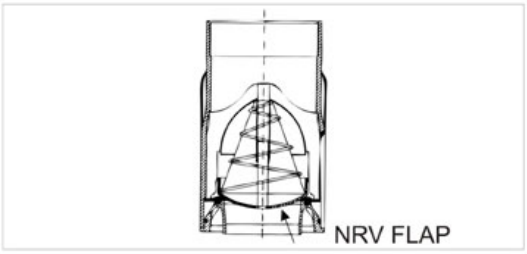


Inlet Strainer

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

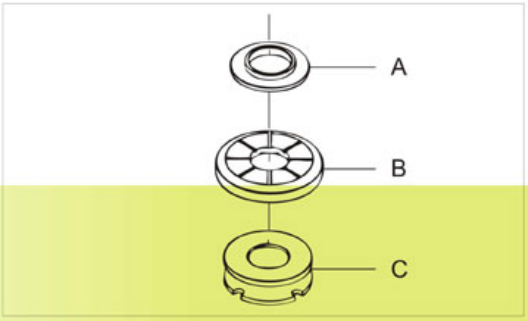
Non-Return Valve

* 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 : OSP8 - 77
* The stationary part of the stop ring (A) is secured in the top bowl (Upper intermediate chamber).
* The rotating part (B) is fitted above the collet [split cone(C)].



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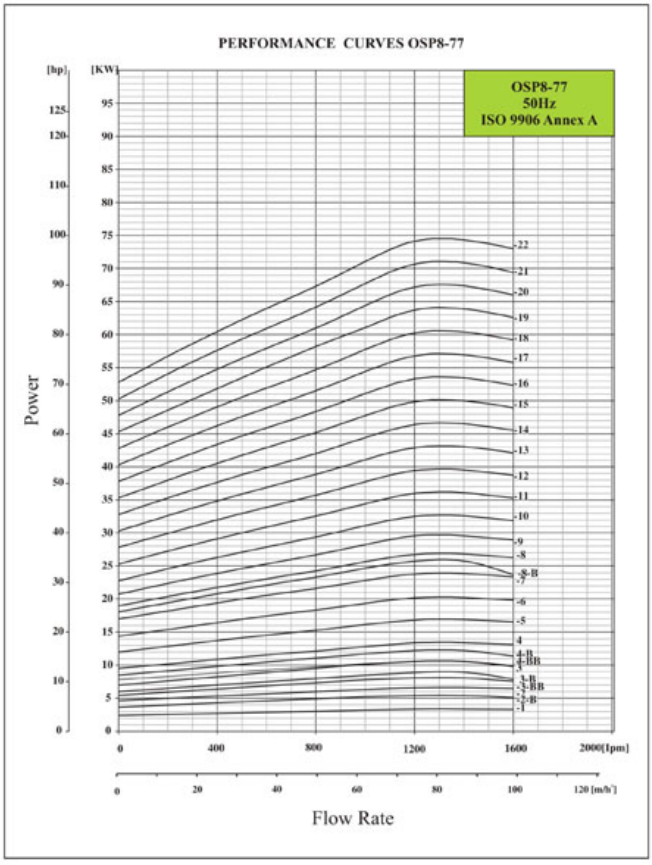
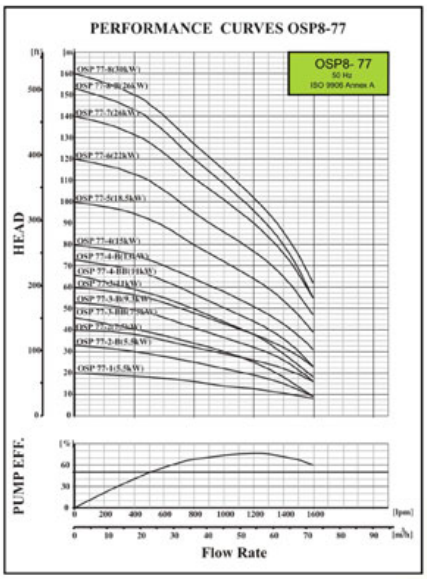
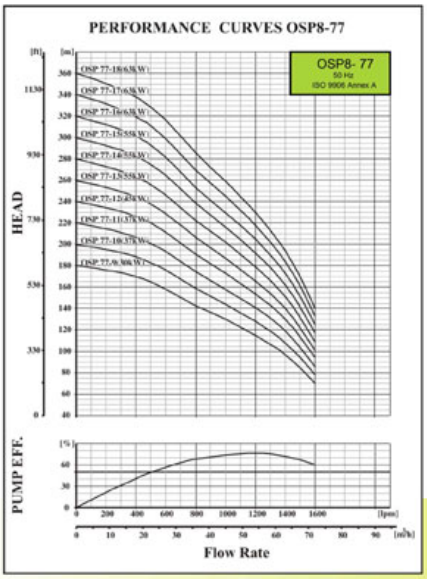
S.S. Pump OSP8-77/95

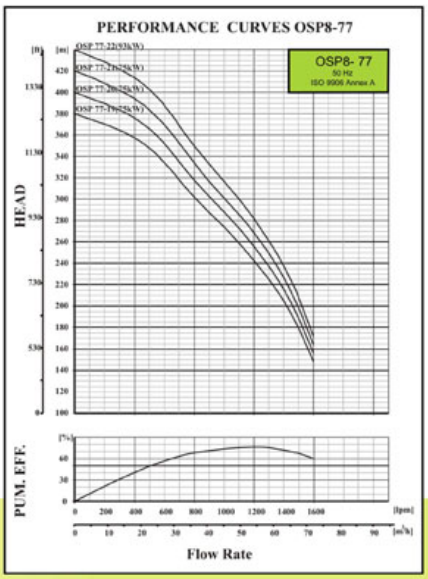
PERFORMANCE TABLE OSP8-77

MODEL	HP	STAGE	MOTOR POWER (KW)	M³/H	DISCHARGE						
					0	30	48	60	72	84	96
				(L.P.M.)	0	500	800	1000	1200	1400	1600
OSP8-77	7.5	1	5.5	HEAD (METERS)	20.0	18	16	14	12.5	10.5	8
OSP8-77	7.5	2-B	5.5		33	29	25	22	19	15	9
OSP8-77	10	2	7.5		40	37	32	29	26	22	16
OSP8-77	10	3-BB	7.5		46	40	34	29	25	18	9
OSP8-77	12.5	3-B	9.3		53	48	41	36.5	32	26	16
OSP8-77	15	3	11.0		60	55	48	43	38	32	23
OSP8-77	15	4-BB	11.0		66	59	50	44	38	29	18
OSP8-77	17.5	4-B	13.0		73	66	57	50.5	44	36	23
OSP8-77	20	4	15.0		80	73	64	58	51	43	31
OSP8-77	25	5	18.5		100	92	80	72	64	54	39
OSP8-77	30	6	22.0		120	110	95	86	77	65	47
OSP8-77	35	7	26.0		140	128	111	101	90	76	55
OSP8-77	35	8-B	26.0		153	139	120	108.5	96	80	55
OSP8-77	40	8	30.0		160	146	127	115	102	86	62
OSP8-77	40	9	30.0		180	165	143	130	115	97	70
OSP8-77	50	10	37.0		200	183	159	144	128	108	78
OSP8-77	50	11	37.0		220	201	175	158	141	119	86
OSP8-77	60	12	45.0		240	220	191	173	154	130	94
OSP8-77	75	13	55.0		260	238	207	187	166	140	101
OSP8-77	75	14	55.0		280	256	223	202	179	151	109
OSP8-77	75	15	55.0		300	275	239	216	192	162	117
OSP8-77	85	16	63.0		320	293	254	230	205	173	125
OSP8-77	85	17	63.0		340	311	270	245	218	184	133
OSP8-77	85	18	63.0		360	329	286	259	230	194	140
OSP8-77	100	19	75.0		380	348	302	274	243	205	148
OSP8-77	100	20	75.0		400	366	318	288	256	216	156
OSP8-77	100	21	75.0		420	384	334	302	269	227	164
OSP8-77	125	22	93.0		440	403	350	317	282	238	172









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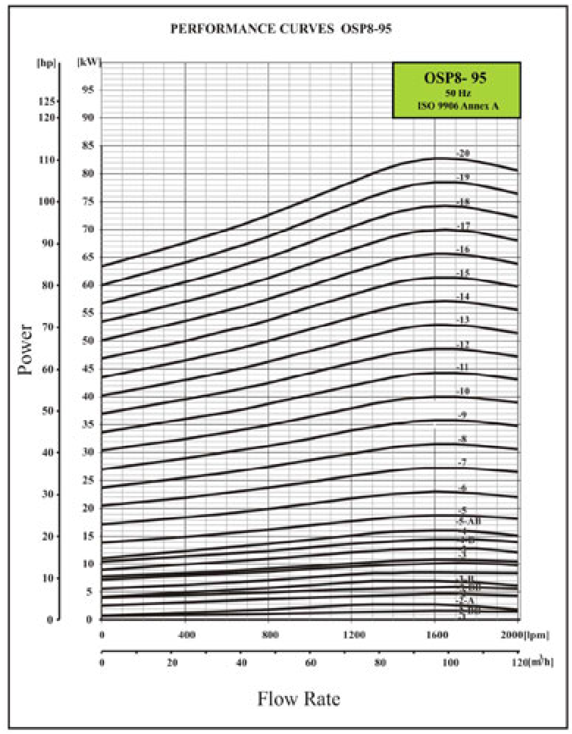
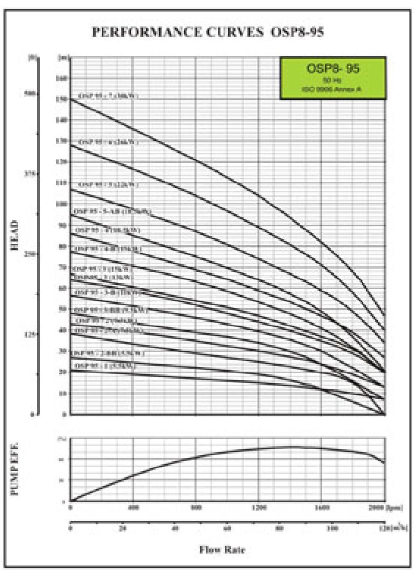
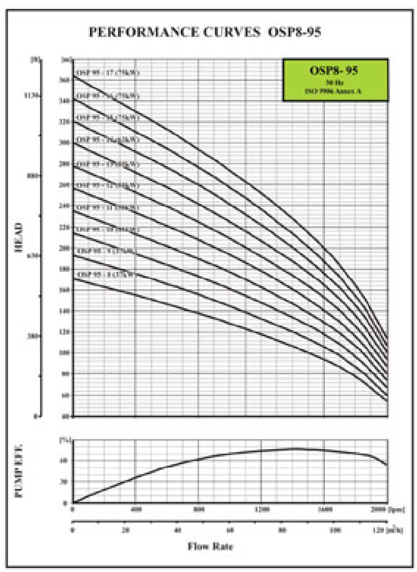
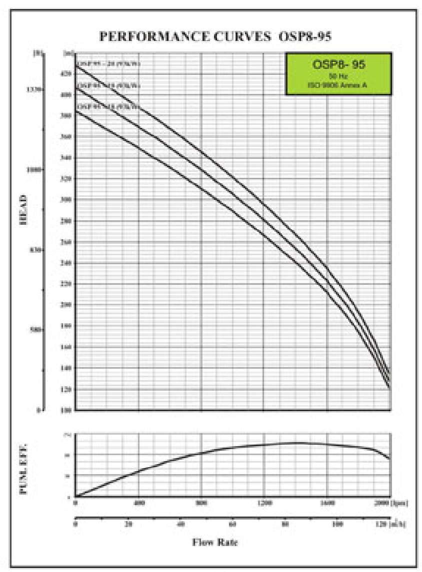
PERFORMANCE TABLE OSP8-95										
MODEL	HP	STAGE	MOTOR POWER (KW)	M³/H	DISCHARGE 0	48	72	96	108	120
				(L.P.M.)	0	800	1200	1600	1800	2000
OSP8-95	7.5	1	5.5	HEAD (METERS)	21	17	15	12	10	7
OSP8-95	7.5	2-BB	5.5		27	22	19	12	6	2
OSP8-95	10	2-A	7.5		38.5	29	25	20	15	9
OSP8-95	12.5	2	9.3		43	35	30	24	19	13
OSP8-95	12.5	3-BB	9.3		48	39	34	24	16	7
OSP8-95	15	3-B	11		56.5	46	39.5	30	22	13
OSP8-95	17.5	3	13		64	52	44	35	29	20
OSP8-95	20	3	15		67	54	47	37	31	21
OSP8-95	20	4-B	15		77.5	63	53.5	41	32	20
OSP8-95	25	4	18.5		86	69	59	47	39	27
OSP8-95	25	5-AB	18.5		95	75	64	49	37	20
OSP8-95	30	5	22		107	87	74	59	49	34
OSP8-95	35	6	26		128	104	89	71	58	40
OSP8-95	40	7	30		150	212	104	82	68	47
OSP8-95	50	8	37		171	138	118	94	78	54
OSP8-95	50	9	37		193	156	133	106	87	60
OSP8-95	60	10	45		214	173	148	118	97	67
OSP8-95	75	11	55		235	190	163	129	107	74
OSP8-95	75	12	55		257	208	178	141	116	80
OSP8-95	75	13	55		278	225	192	153	126	87
OSP8-95	85	14	63		300	242	207	165	136	94
OSP8-95	100	15	75		321	260	222	176	146	101
OSP8-95	100	16	75		342	277	237	188	155	107
OSP8-95	100	17	75		364	294	252	200	165	114
OSP8-95	125	18	93		385	311	266	212	175	121
OSP8-95	125	19	93		407	329	281	223	184	127
OSP8-95	125	20	93		428	346	296	235	194	134









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.

OTHER RANGES :

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