



SINCE 1976[®]

BS
PUMPS

PERFORMANCE CHART



**POWER
BEHIND
WATER**

An ISO : 9001 2015 Certified co.

INNOVATION



TECHNOLOGY



PERFORMANCE



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BS PUMPS

BS Pumps on the basis of 4 Decades of experience, has highly specialized in design and manufacturing know-how of submersible pumps. With the on going research using advanced test equipments and systems, the company ensures for each and every Pumps, the utmost in functional capability, cost effectiveness and reliability.

BS Pump sets are manufactured with careful selection of raw materials and an unbending quality assurance programme at every stage of the manufacturing process.



GENERAL SPECIFICATIONS

Temperature of the water being pumped	: 33°C max
Maximum sand contents of the pumped water	: 50 gm/m ³ max. (50ppm max.)
Operating Voltage range	
Three phase	: 350 V to 415 V
Single phase	: 180 V to 220 V
Rated frequency	: 50 Hz, A.C. Supply
Starting method	
Up to 7.5 H P	: Direct - on -line
7.5 H P and above	: Star - Delta
Pumped liquids	: Clear, cold, non aggressive fresh water
3 Core PVC flat suitable size cable of three metres is supplied with every motor	
Overload relay setting	: For phase current sensing type overload relay, the setting is to be done for 58% of rated current.
For variation in execution other than those listed here, e.g. material of construction, method of starting, fluid handled, operating temperature, voltage, frequency, etc, please contact us.	

ENGINEERING DATA

Conversion Table

1 metre	= 3.28 feet	= 1.094 yards
1 Imperial gallon per minute	= 0.07576 lps.(for water)	= 4.543 lpm
1 cusec	= 1700 lpm	= 102000 lph = 28.32 lps = 102 m ³ / hr. = acre inch / hr
1 cubic metre per hour	= 0.2778 liters per sec.	= 16.67 lpm
1 U.S. gallon	= 0.833 imperial gallon	
1 litre per second	= 13.2 gallons per minute	

Formula

Water Horse Power in HP	=	$\frac{\text{Discharge in lpm} \times \text{Head in mtrs.}}{4500}$
Water Horse Power in Kw	=	$\frac{\text{Discharge in lpm} \times \text{Head in mtrs.}}{6120}$
BHP (SHP)	=	$\frac{\text{Water Horse Power}}{\text{Pump Efficiency}}$
Overall Efficiency of Pumpset	=	$\frac{\text{Water Horse Power in Kw}}{\text{Kw input to Pumpset (motor)}}$

DEEPWELL SUBMERSIBLE PUMPSETS

Series	Min. Bore mm (Inch)	Discharge Range LPM	Head Range Metres	Motor HP
J4	100 (4)	10-350	10-130	0.5-5
CT	150 (6)	75-400	20-250	3-30
J6	150 (6)	200-1250	10-150	3-30
V7	175 (7)	700-1500	10-70	6-30
JM	200 (8)	600-2000	15-70	6-30
CT8	200 (8)	300-900	20-225	15-62
MN	200 (8)	600-3000	10-150	15-62
MN	300 (12)	800-3000	50-150	50-100
J10	300 (12)	1500-4000	20-150	40-100

Applications

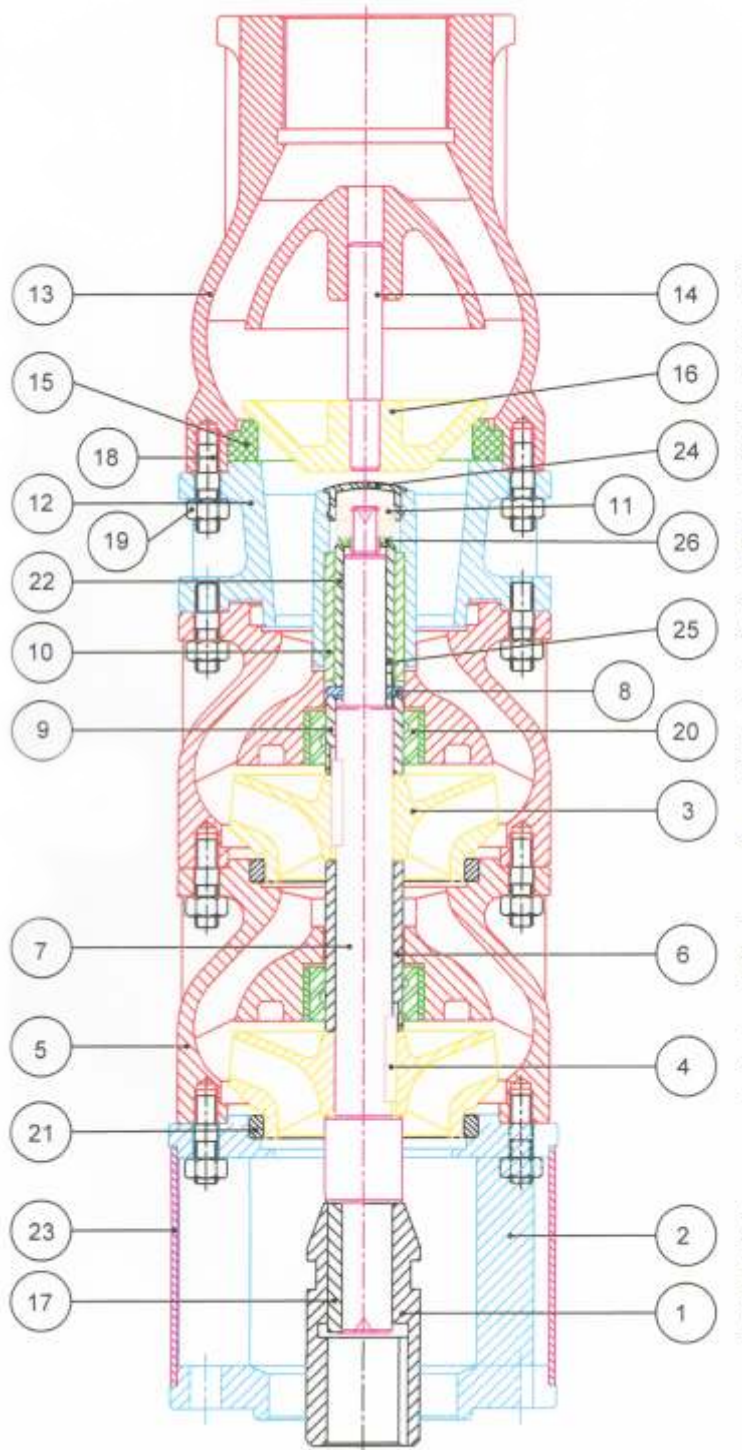
- Irrigation purposes including sprinkler drip irrigation
- Domestic water supply
- Pressure boosting to multi-storied apartments
- Industrial water supply
- Water supply projects for large colonies and sectors



SECTIONAL VIEW

DEEPWELL SUBMERSIBLE PUMPSETS

for **125 mm & above pumps**



PART LIST

26	WASHER	S.S.	1
25	KEY FOR RUNNING SLEEVE	EN-8	1
24	D.O.L. END CAP	PLASTIC	1
23	STRAINER	S.S.	1
22	RUNNING SLEEVE	S.S.	1
21	NECK RING	NTR.	
20	RUBBER BUSH	RUBBER	
19	HEX NUT	S.S.	
18	STUD	S.S.	
17	KEY FOR COUPLING	S.S.	1
16	CONE FOR N.R.V.	S.S.	1
15	SEAT FOR N.R.V.	RUBBER	1
14	STEM FOR CONE	S.S.	1
13	NON RETURN VALVE BODY	C.I.	1
12	DISCHARGE OUTLET	C.I.	1
11	CHECK NUT	S.S.	
10	BUSH FOR D.O.L.	G.M.	1
9	U.D.SLEEVE	S.S.	1
8	GUARD RING	S.S.	1
7	PUMP SHAFT	S.S.	1
6	M.D.SLEEVE	S.S.	
5	STAGE BOWL	C.I.	
4	KEY FOR IMPELLER	EN-8	
3	IMPELLER	S.S.	
2	SUCTION CHAMBER	C.I.	1
1	COUPLING SLEEVE	S.S.	1
PART NO.	DESCRIPTION	MATERIAL	QTY.

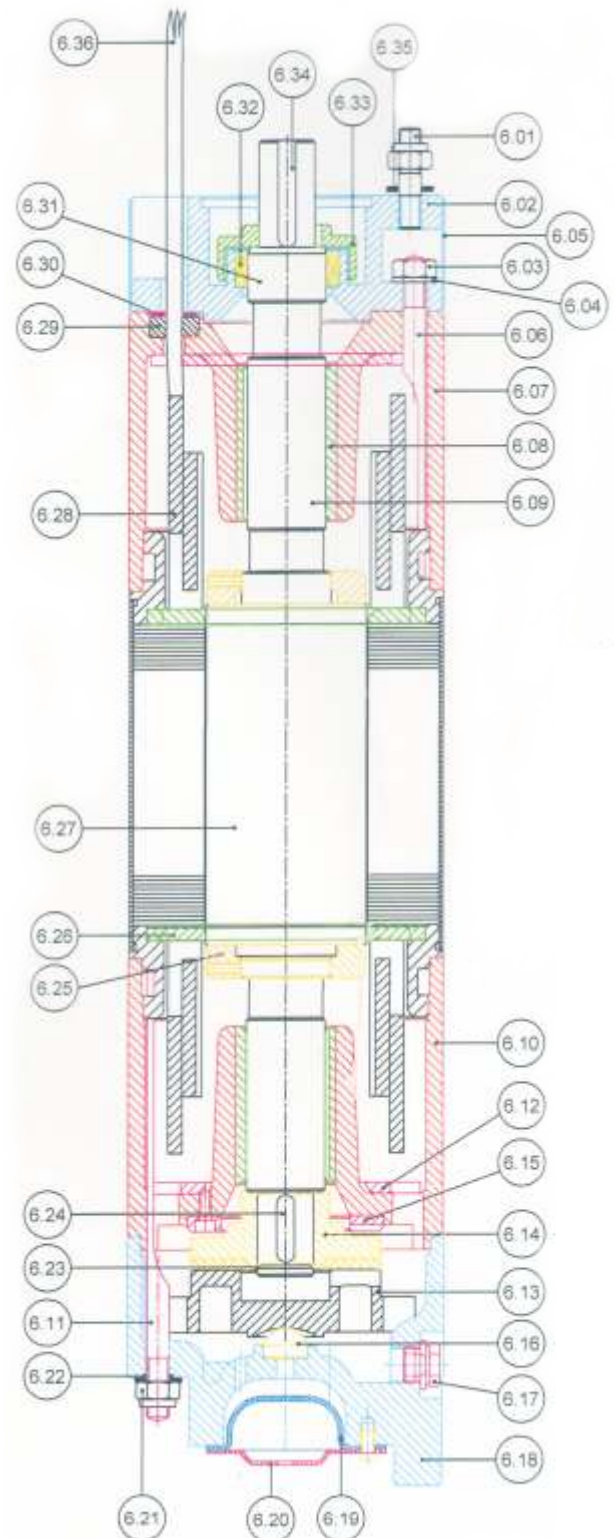
SECTIONAL VIEW

DEEPWELL SUBMERSIBLE PUMPSETS

for **125 mm & above motors**

PART LIST

6.36	SUPPLY CABLE		2
6.35	GROOVED WASHER-M10	STD	4
6.34	KEY FOR COUPLING	S.S.	1
6.33	SAND GUARD	C.I.	1
6.32	OIL SEAL	RUBBER	2
6.31	SEALINGBUSH	S.S.	1
6.30	PRESSURE PLATE	M.S.	4
6.29	GROMET	RUBBER	2
6.28	WINDING	COPPER	
6.27	COMPLETE ROTOR		1
6.26	END LEMINATION	S.S.	2
6.25	BALANCING RING	C.I.	2
6.24	KEY FOR THRUST PLATE	EN-9	1
6.23	CIRCLIP FOR THRUST PLATE	SPG.S	1
6.22	O' RING FOR STUDS	RUBBER	8
6.21	NYLOCK NUT	STD.	8
6.20	DIAPHRAGM PLATE	S.S.	1
6.19	RUBBER DIAPHRAGM	RUBBER	1
6.18	MOTOR BASE	C.I.	1
6.17	DRAIN PLUG	G.M.	3
6.16	PIVOT BALL	S.S.	1
6.15	COUNTER	G.M.	1
6.14	THRUST PLATE	S.S.	1
6.13	THRUST BRG.HOUSING	S.S.	1
6.12	WINDING PROTECTOR	RUBBER.	2
6.11	LOWER T-BOLT	EN9	4
6.10	LOWER BRG.HOUSING	C.I.	1
6.09	ROTOR SLEEVE	S.S.	2
6.08	BEARING BUSH	G.M.	2
6.07	UPPER BRG.HOUSING	C.I.	1
6.06	UPPER T-BOLT	EN9	4
6.05	STRAINER	S.S.	1
6.04	PLAIN WASHER	STD.	8
6.03	HEX. NUT	STD.	4
6.02	ADOPTER HOUSING	C.I.	1
6.01	STUDS FOR ADOPTER HOUSING	STD.	4
PARTS NO.	DESCRIPTION	MATERIAL	QTY.



MATERIAL OF CONSTRUCTION

PUMP

Sl No.	Model	4" (100 mm)	5" (125 mm)	6" (150 mm)	7" (175 mm)	8" (200 mm)	12" (250 mm)
1.	Impeller	EPGFN2	SS	SS/Noryl	SS	SS	SS
2.	Diffuser	EPGFN2	Cast Iron	EPGFN2	Cast Iron	Cast Iron	Cast Iron
3.	Stage Casing (Bowl)	Stainless Steel	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
4.	Pump Shaft	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
5.	Suction Inlet	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
6.	NRV Body	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron

MOTOR

Sl No.	Part Name	4" Motor M four	5" Motor Dx-5	6" Motor Dx-6	8" Motor Dx-8	11" Motor Dx-11
1.	Shaft	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel
2.	Bearing Bush	Leaded Bronze	Leaded Bronze	Leaded Bronze	Leaded Bronze	Leaded Bronze
3.	Lower & Upper Bearing Housing	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
4.	Stator Body	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
5.	Windings	PVC Insulated/PVC + Nylon wrapped copper conductor wires suitable for water lubricated (wet type) motor - Easily rewindable at site.				