

Self-Priming Centrifugal Pumps



ESP series

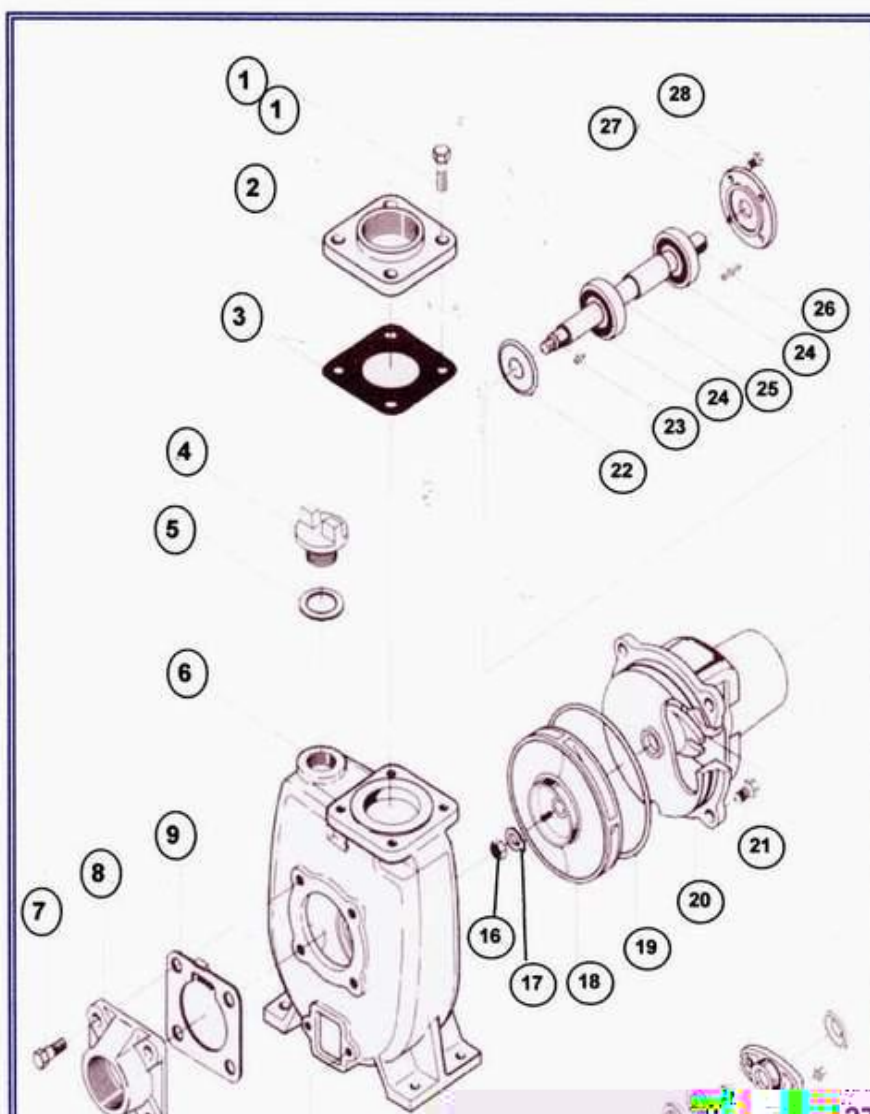


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Material

Parts	Standard	Bronze	Stainless steel
Impeller	Cast iron	Bronze	Stainless steel
Shaft	Carbon steel	Stainless steel	Stainless steel
Casing	Cast iron	Cast iron	Stainless steel



1. Discharge flange bolt
2. Discharge flange
3. Discharge flange packing
4. Priming cap
5. Priming cap packing
6. Casing
7. Suction flange bolt
8. Suction flange
9. Suction check valve
10. Drain cap
11. Drain cap packing
12. Drain cover bolt
13. Washer
14. Drain cover
15. Drain cover packing
16. Impeller nut
17. Impeller washer
18. Impeller
19. O-ring
20. Bracket
21. Bracket bolt
22. Bearing cover
23. Impeller key
24. Ball bearing
25. Shaft
26. Key

27. Bearing cover

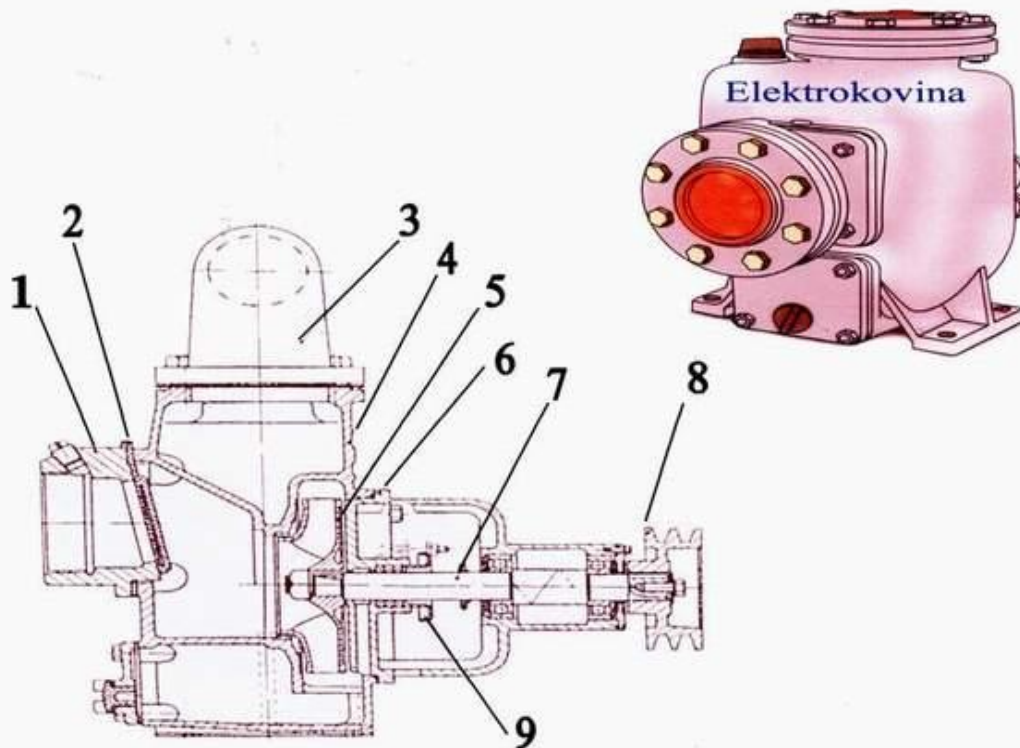
28. Bearing cover

Principal of Elektrovina Self Priming

Upon starting the pump pressure drop occurs at the eye of the impeller which will give rise to pressure differences within the pump system and outside the pump system. As the pressure continues to drop in the pump pump system.

Application :

- Biogas plant;
- Non-flammable and - explosive liquid;
- Rain water and common sewage;
- Industrial sewage of light industry , paper mill , textile , food processing plant, chemical industry , electric utility , deep mines ,etc.;
- Sewage discharge in the residential area ;
- Sewage and deposit of water purifying system;
- Tanning industry , sewage of slaughter house,fish breeding in the river and pond;
- Wine and sugar industry;
- Sewage discharge not having strong corrosiveness but seriously polluted;



Description

- | | |
|-----------------------|-----------------|
| 1.Suction flange | 7.Shaft |
| 2.Suction check valve | 8.Pulley |
| 3.Disction elbow | 9.Packing gland |
| 4.Pump casing | |
| 5.Impeller | |
| 6.Bearing bracket | |

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ESP series Coding System

ESP - 100 - 10M - CBS
XXX-XXX-XXX-XXX
① ② ③ ④

① *Series Pump*

ESP = Large Flow Pumps

ESPT = High Head Pump

② *Discharge Size*

32 = 1.1/ 2"	100 = 4"
50 = 2"	150 = 6"
80 = 3"	200 = 8"

③ *Seal Type*

Mechanical Seal

10M = Carbon & Ceramic

20M = Silicon & Silicon & Viton

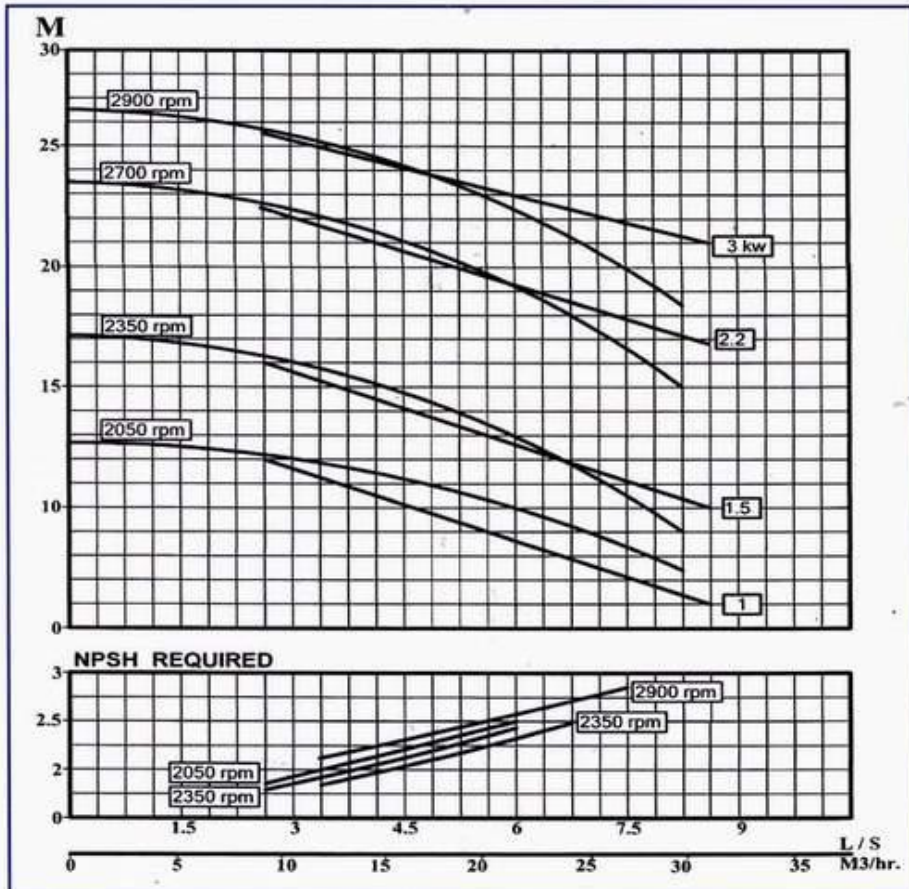
30G = Gland Packing

④ *Body / Impeller / Shaft : Material*

C = Cast Iron

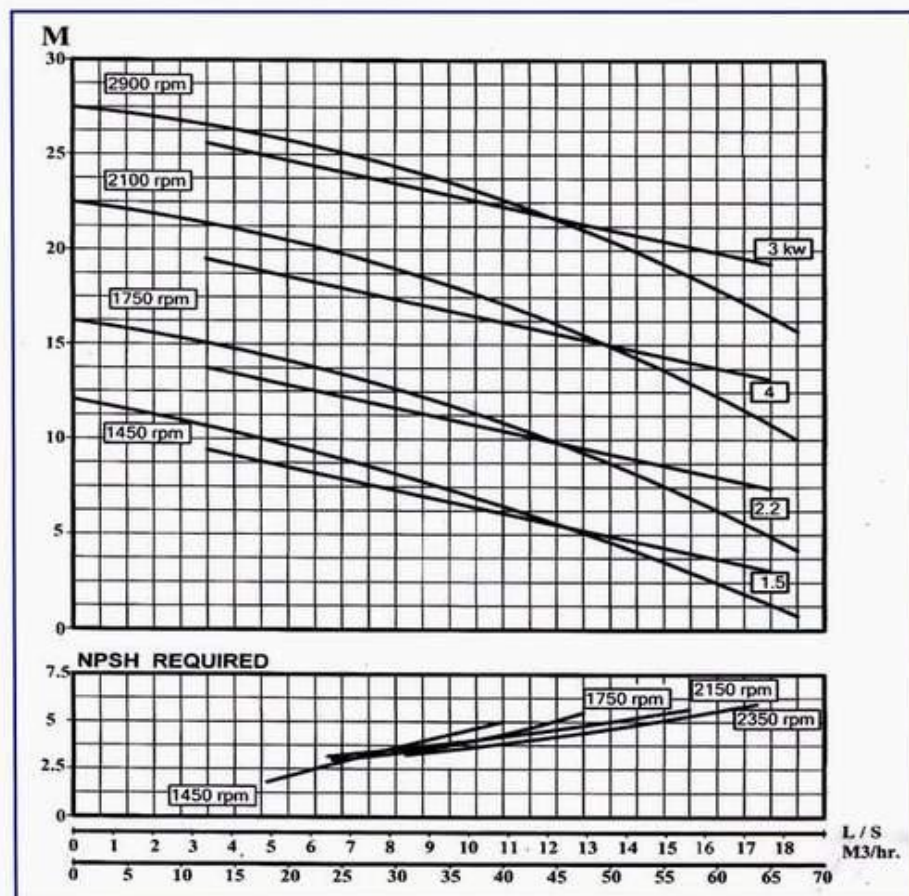
B = Bronze

S = Stainless Steel



ESP-50-10M-CBS

Performance Curve
R.P.M. from 2050 to 2900

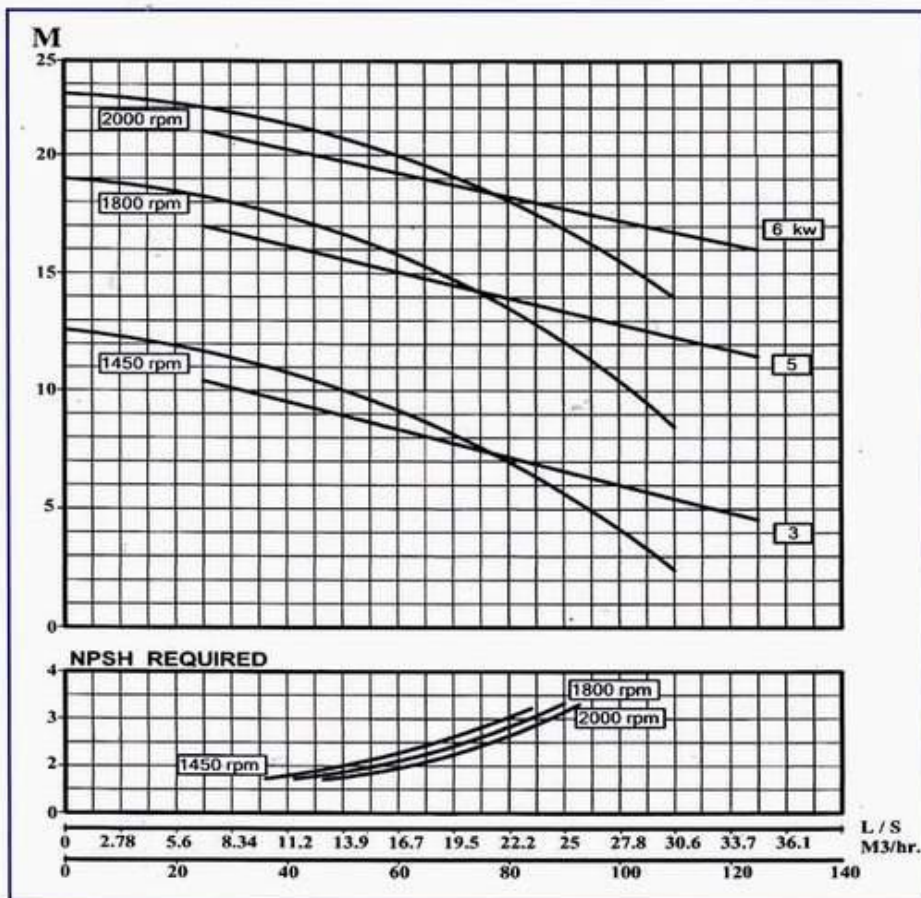


ESP-80-10M-CBS

Performance Curve
R.P.M. from 1450 to 2900

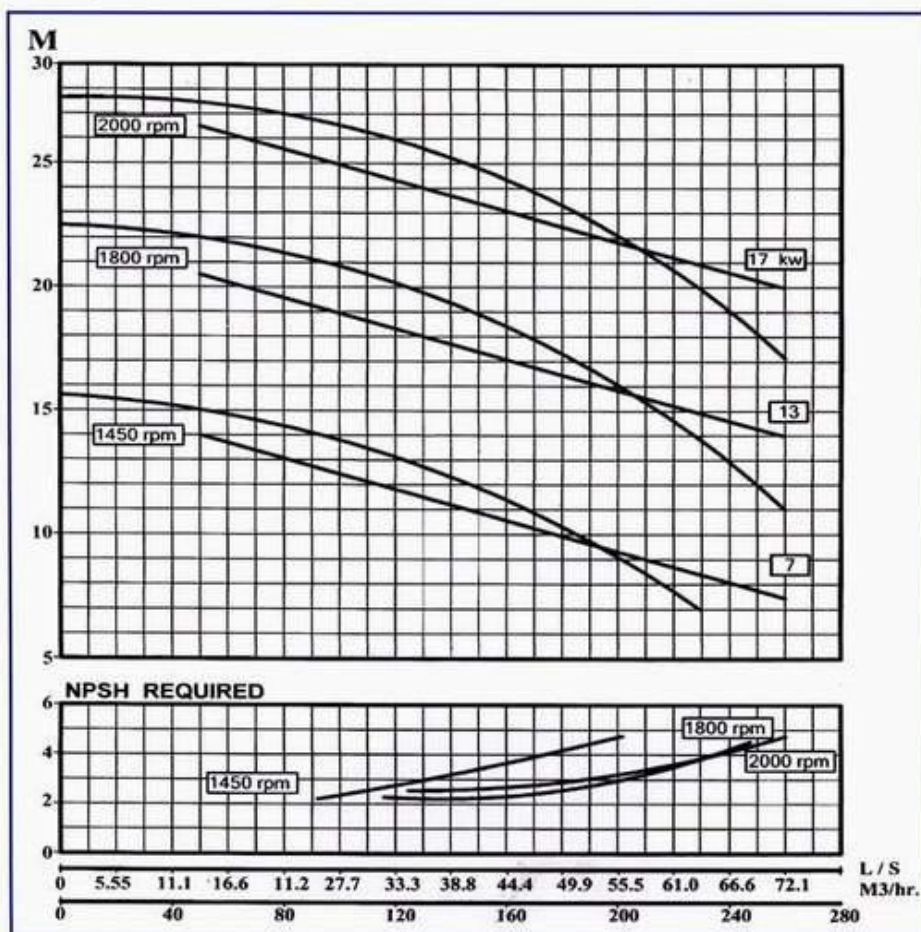
ESP-100-10M-CBS

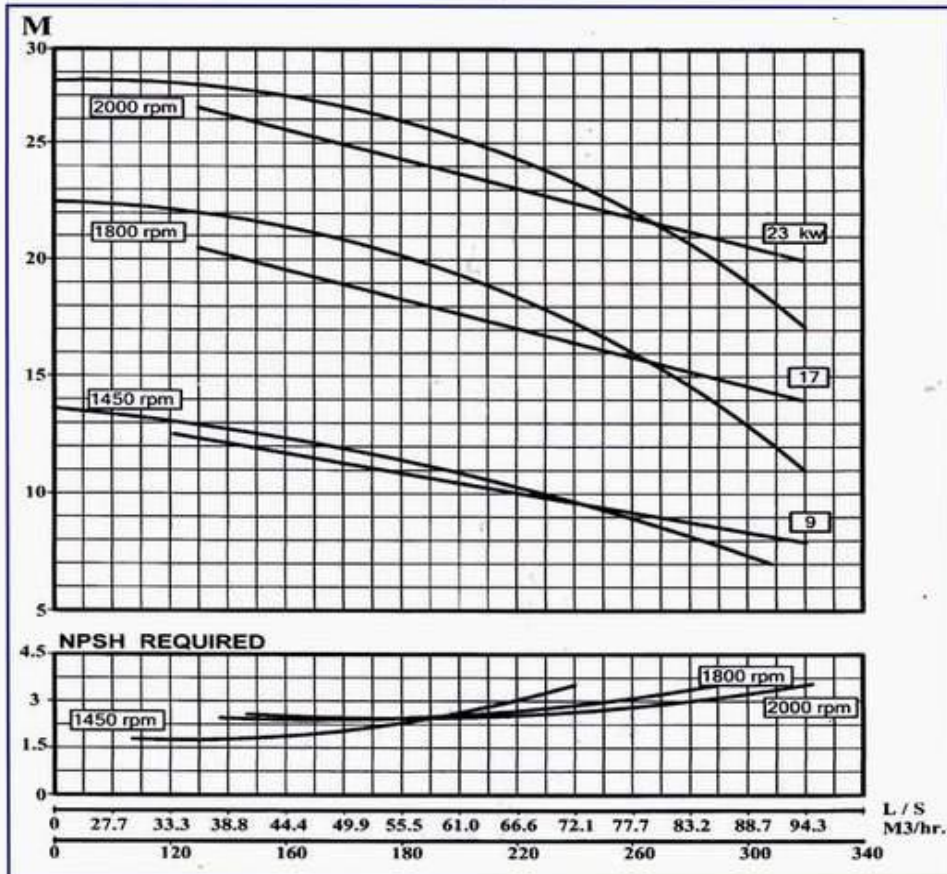
Performance Curve
R.P.M. from 1450 to 2000



ESP-150-10M-CBS

Performance Curve
R.P.M. from 1450 to 2000

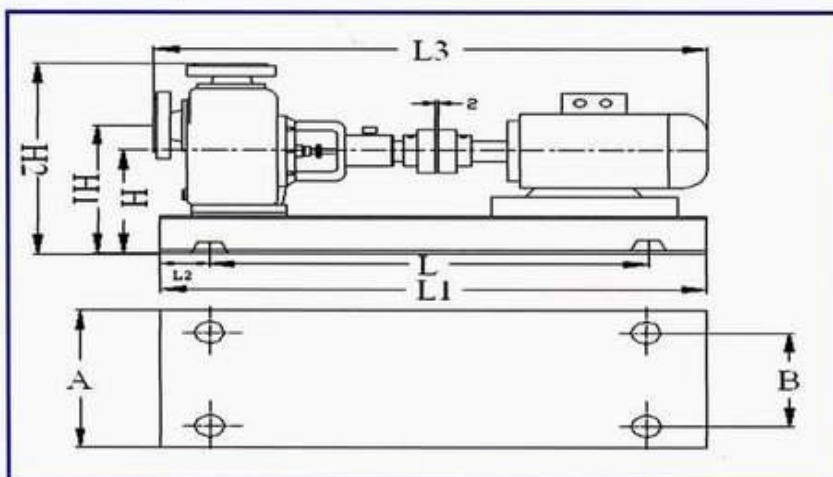




ESP-200-10M-CBS

Performance Curve
R.P.M. from 1450 to 2000

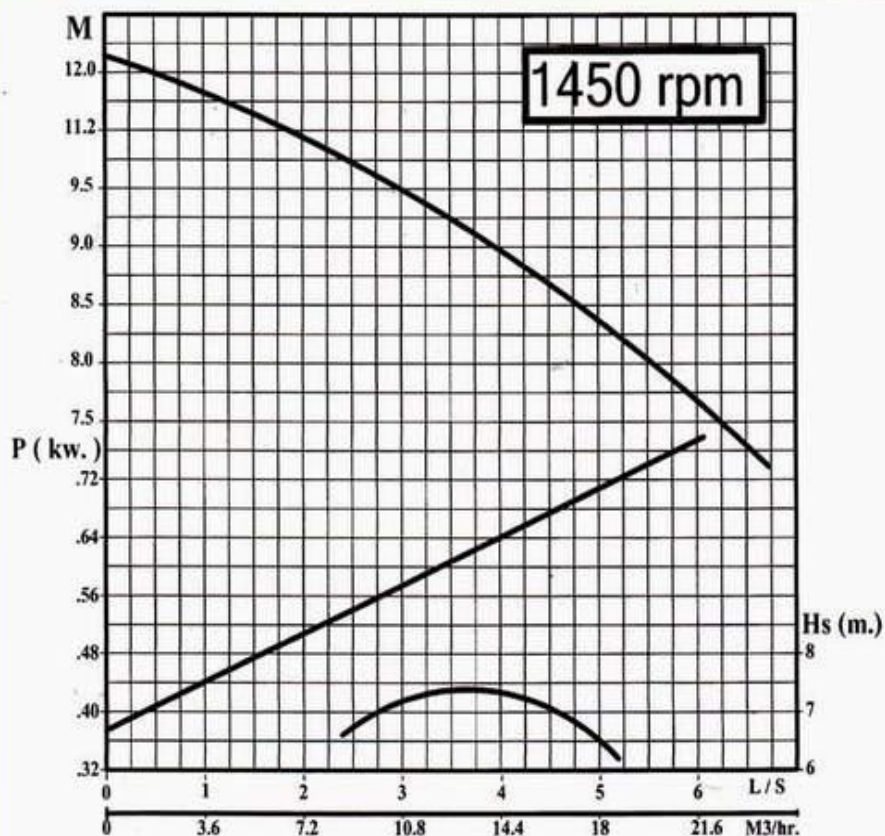
Dimensions Pump



Model	L	L1	L2	L3	A	B	H	H1	H2	in	out
ESP50	415	625	105	742	340	300	178	218	423	50	50
ESP80	410	650	120	764	350	300	215	270	785	80	80
ESP100	510	753	115	880	405	355	240	310	593	100	100
ESP150	640	965	160	1168	465	415	297	407	795	150	150
ESP200	670	1070	200	1373	510	480	328	468	921	200	200

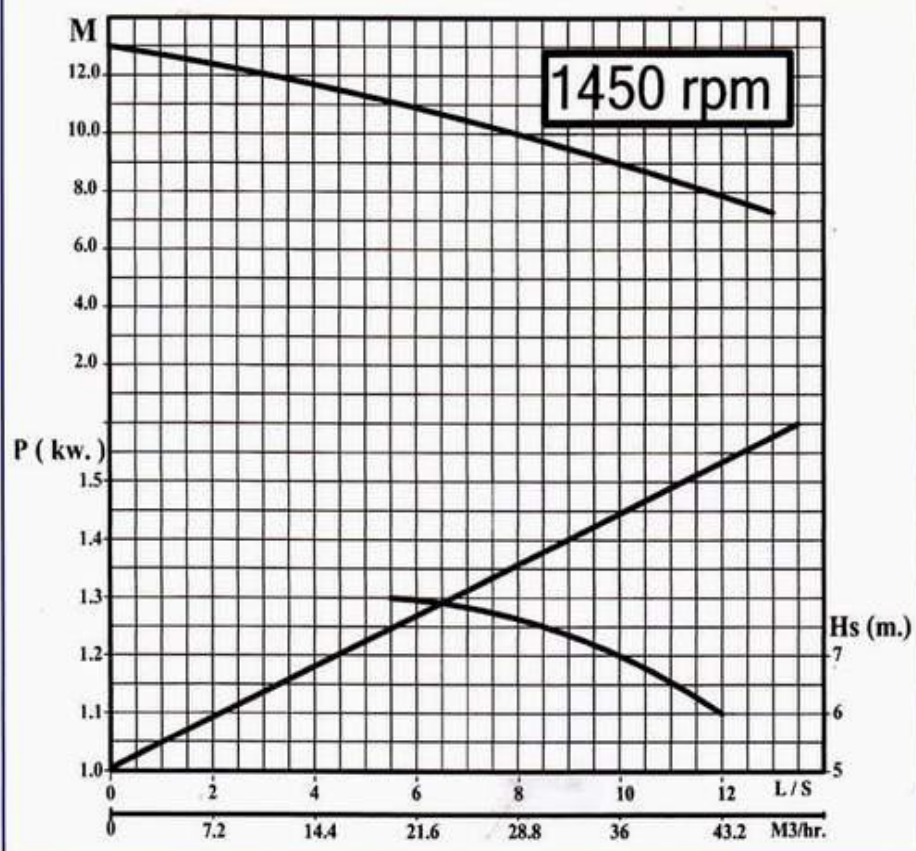
ESP-N50-10M-CCS

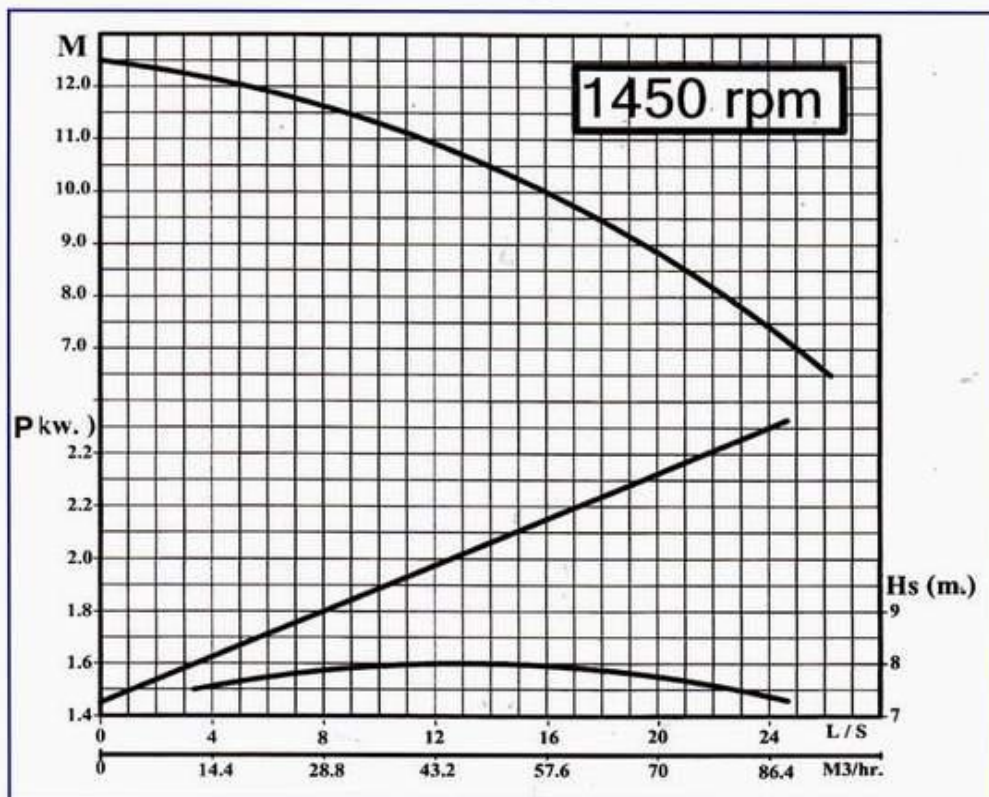
Performance Curve
R.P.M. 1450



ESP-N80-10M-CCS

Performance Curve
R.P.M. 1450



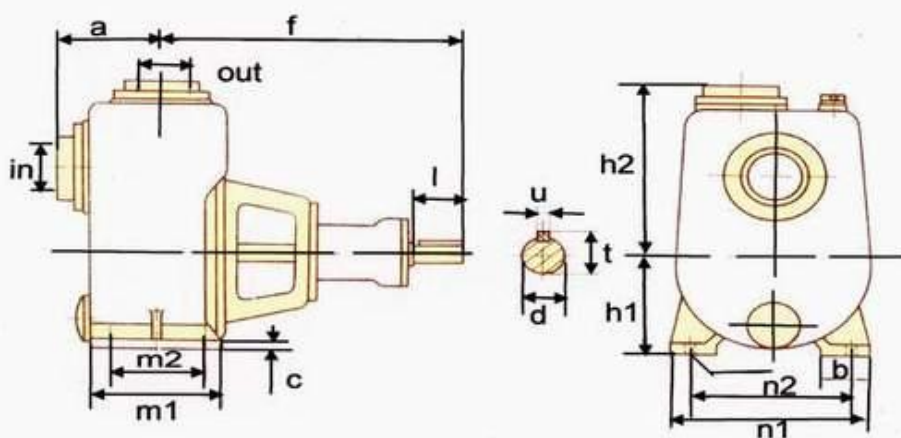


ESP-N100-10M-CCS

Performance Curve

R.P.M. 1450

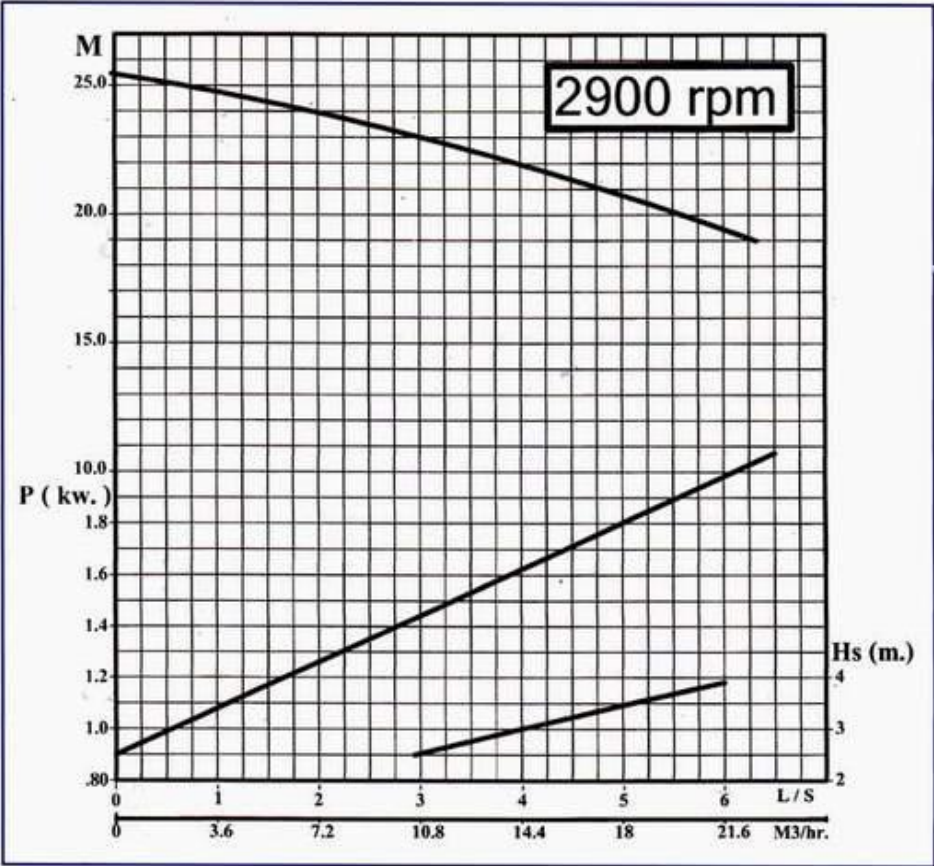
Dimensions Pump



Model	a	f	h1	h2	b	c	m1	m2	n1	n2	d	l	t	u	in	out
ESPN50	102	280	125	204	45	14	120	90	237	205	18	52	20	5	50	50
ESPN80	106	301	140	248	50	14	140	110	270	230	28	52	31	8	80	80
ESPN100	121	321	150	282	50	14	160	124	285	250	28	44	31	8	100	100

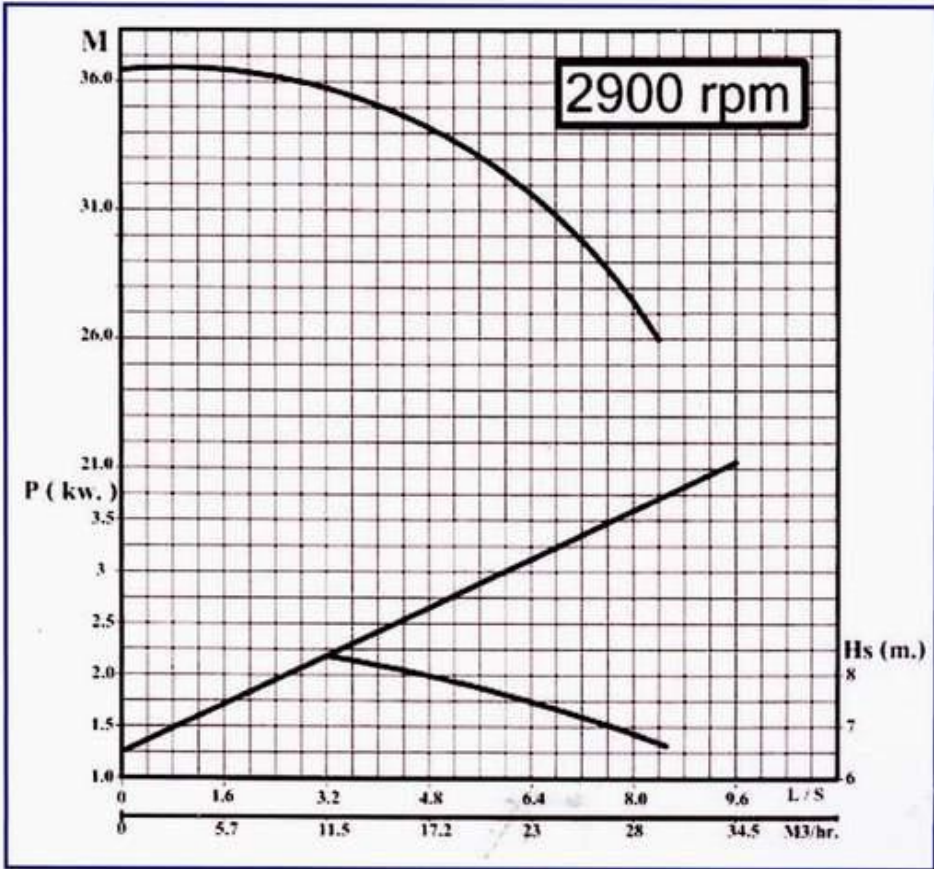
ESPT-32-10M-CBS

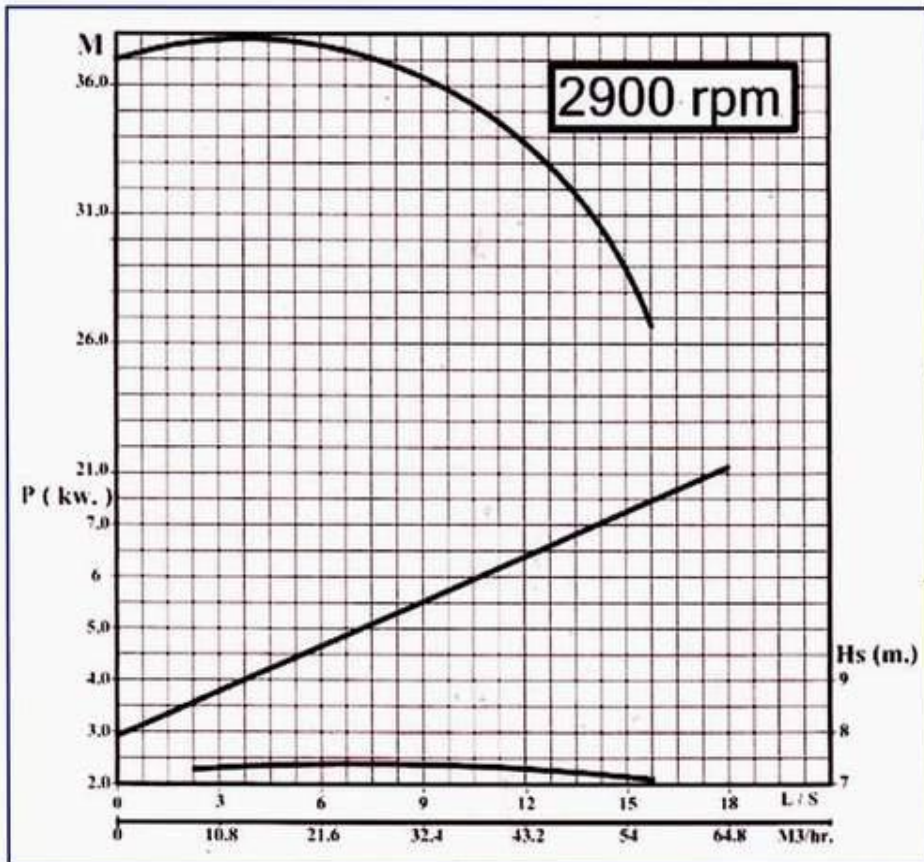
Performance Curve
R.P.M. 2900



ESPT-50-10M-CBS

Performance Curve
R.P.M. 2900

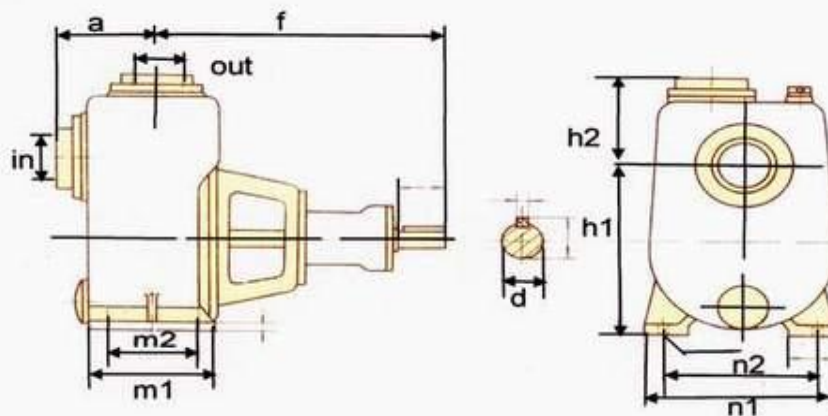




ESPT-80-10M-CBS

Performance Curve
R.P.M. 2900

Dimensions Pump



Model	a	f	m1	m2	d	h1	h2	n1	n2	in	out
ESPT- 40	90	250	120	90	18	152	80	200	180	40	40
ESPT- 50	110	270	125	95	18	230	90	230	195	50	50
ESPT- 80	140	280	140	100	24	200	180	260	230	80	80