

## LP SERIES 4" TO 20" LOW HEAD HIGH FLOW PUMP WITH SEMI OPEN IMPELLER



MODELS	DUTY POINT
LP 100 X 150 - 275	40M @ 165 M3/hr
LP 150 X 150 - 282	34M @ 375 M3/hr
LP 150 X 150 - 356	52M @ 350 M3/hr
LP 200 X 200 - 295	38M @ 550 M3/hr
LP 250 X 250 - 295	30M @ 620 M3/hr
LP 300 X 300 - 359	42M @ 1000 M3/hr
LP 400 X 350 - 450	20M @ 3000 M3/hr
LP 450 x 400 - 500	28M @ 1500 M3/hr
LP 600 x 500 - 600	40M @ 2500 M3/hr

### Materials of Construction

STANDARDS	MATERIAL	STANDARDS	MATERIAL
Priming	60 - 120 CFM	Front Wear Plate	SS 316
Tee Piece	SG 500/7	Rear Back Plate	SG 500/7
Air & Water Separator	SG 500/7	Pump Shaft	SS 431/Duplex (optional)
Pump Casing (Volute)	SG Iron 500/7	Mechanical Seal	SIC - Viton
Back Plate	SG 500/7	Bearing Housing	SG 500/7
Bell housing to engine	SG 500/7	Couplings	SAE 1,2,3
Bell housing to Volute	SG 500/7	Non return valve	Cast Iron
Impeller	SS 316 (upto 12") 14" to 20" SG500/7		

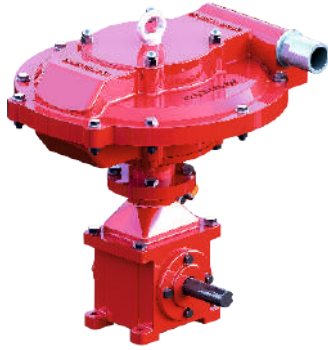
Optional I. Upon request a full stainless steel 316L, CD4MCU and any other special alloys

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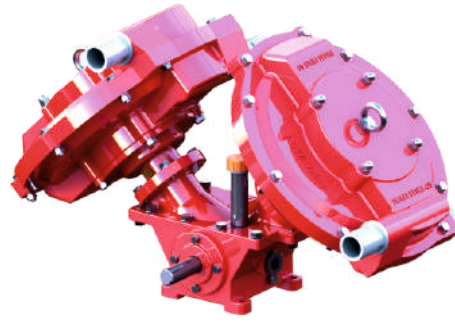
No.85/M, Ground Floor, Industrial Suburb, 2nd Stage Gautham Nagar, Tumkur Road  
Yeshwanthpur, Bangalore 560 022, Karnataka, INDIA

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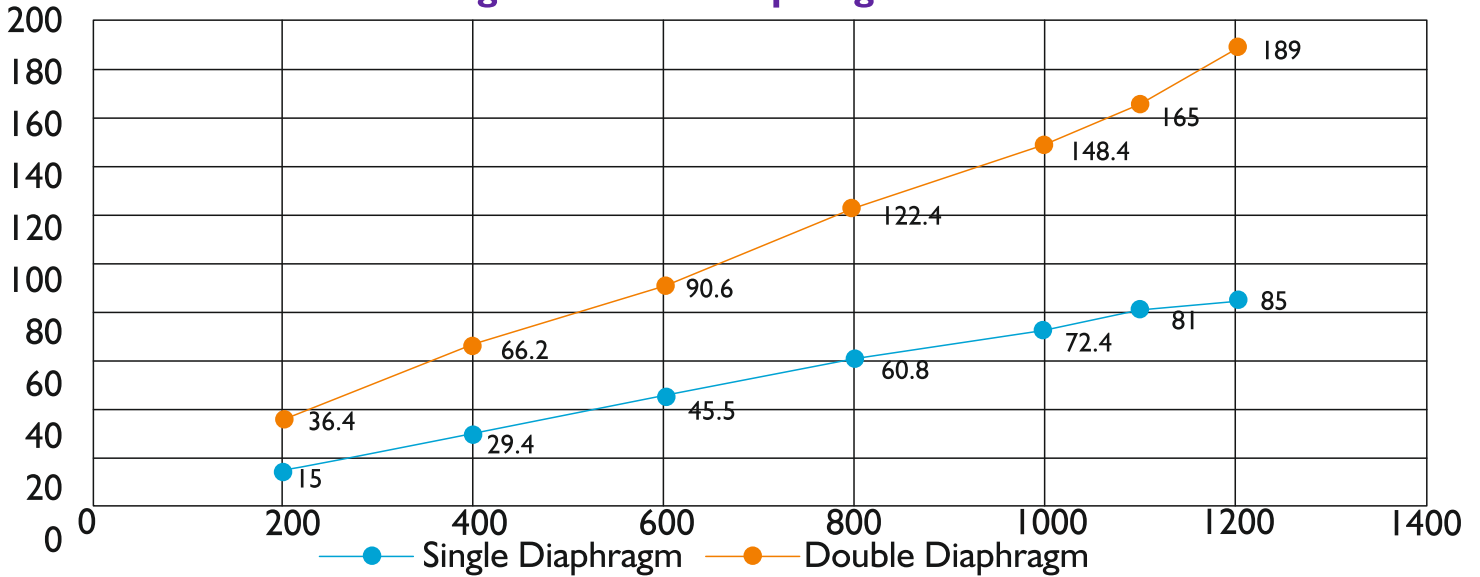


Single Diaphragm



Twin Diaphragm

## Single and Twin Diaphragm Flow vs CFM



### Priming time 60 cfm

Pipe internal diameter mm	Area m <sup>2</sup>	60cfm Volume pumps m <sup>3</sup> /sec	Pipe fluid speed m/sec	time for priming in seconds								
				10m	20m	30m	40m	50m	60m	100m	200m	300m
80	0.005029	0.02359	4.691193	2.13	4.26	6.39	8.53	10.66	12.79	21.32	42.63	63.95
100	0.007857	0.02359	3.002364	3.33	6.66	9.99	13.32	16.65	19.98	33.31	66.61	99.92
150	0.017679	0.02359	1.334384	7.49	14.99	22.48	29.98	37.47	44.96	74.94	149.88	224.82
200	0.031429	0.02359	0.750591	13.32	26.65	39.97	53.29	66.61	79.94	133.23	266.46	399.69

### Priming time 120 cfm

Pipe internal diameter mm	Area m <sup>2</sup>	120cfm Volume pumps m <sup>3</sup> /sec	Pipe fluid speed m/sec	time for priming in seconds								
				10m	20m	30m	40m	50m	60m	100m	200m	300m
80	0.005029	0.04718	9.382386	1.07	2.13	3.20	4.26	5.33	6.39	10.66	21.32	31.97
100	0.007857	0.04718	6.004727	1.67	3.33	5.00	6.66	8.33	9.99	16.65	33.31	49.96
150	0.017679	0.04718	2.668768	3.75	7.49	11.24	14.99	18.74	22.48	37.47	74.94	112.41
200	0.031429	0.04718	1.501182	6.66	13.32	19.98	26.65	33.31	39.97	66.61	133.23	199.84

Updated on 26/08/2023

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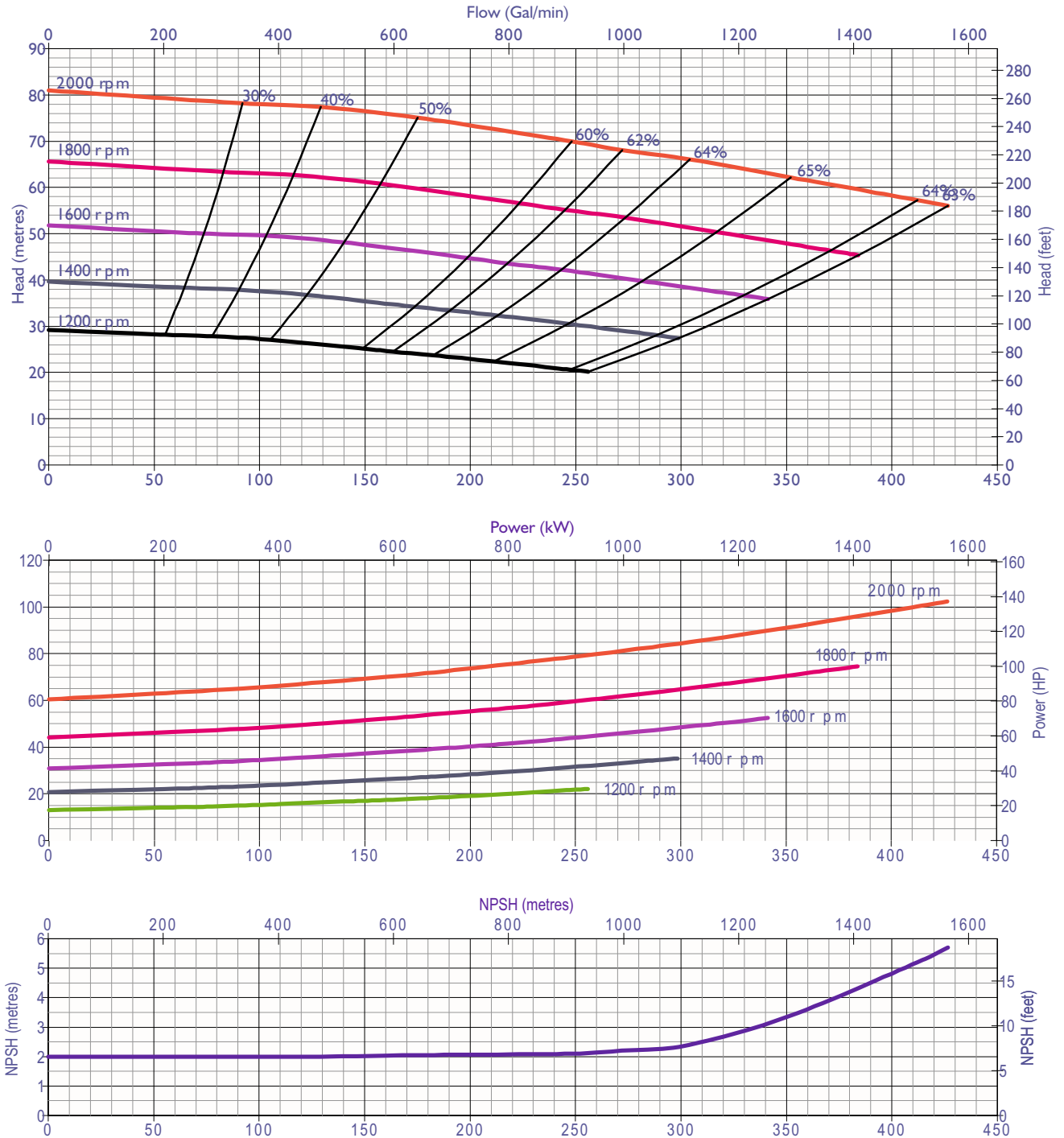
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## LOW HEAD DISCHARGE - DUTY POINT - 52M @ 350 M3/hr

<b>Pump Type:</b> De-watering (surface)	<b>Engine Rating (kW/HP):</b> 110Kw - 2000 rpm	<b>Model Number</b> LP 150 x 150 - 356	<b>Total Head (m):</b> 80
<b>Pump Serial Number:</b> LP 100 x 150 - 000702	<b>Max impeller dia</b> <b>356mm</b>	<b>Type of impeller</b> 3 vane semi open impeller	<b>Max. Discharge (m3/hr):</b> 450
<b>Delivery Size (inch):</b> 150mm	<b>Suction size</b> 150mm	<b>Impeller Dia</b> 356mm	<b>Speed Range(rpm)</b> 1500 to 2000 rpm
<b>Number of Stages in Pump:</b> 1	<b>Efficiency</b> 64%	<b>Max. solid handling</b> 75mm or 3 inches	<b>Method of coupling</b> SAE 3/10

### PERFORMANCE CURVE



Specifications subject to change without notice

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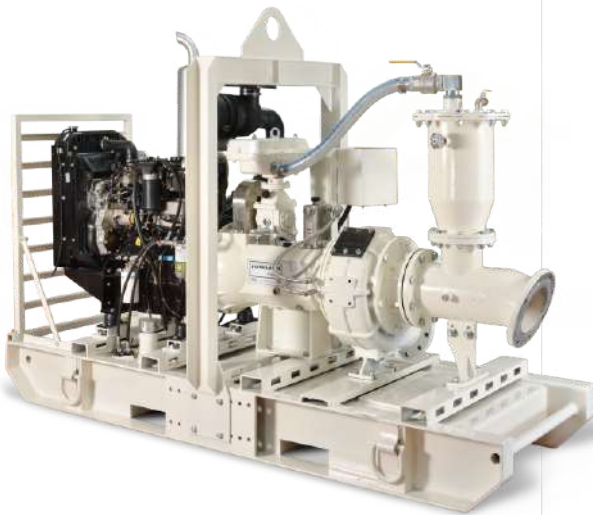
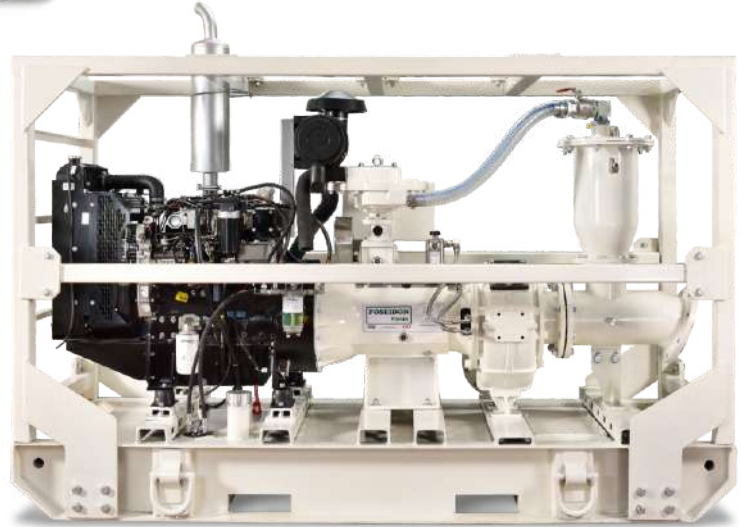
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All pumps can be supplied with optional sound and weather covers for the engine only or for the whole pump-set.

Poseidon pumps can be mounted on a variety of base types and coupled to a large range of different engine makes and models.



All pump types can be trailer mounted, in either a heavy duty road or site trailer configuration

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