

# POSEIDON DRY PRIME SERIES

INDO-AUSTRALIAN JOINT VENTURE AUSTRALIA

LP 150x100-275



### Materials of Construction

STANDARDS	MATERIAL	STANDARDS	MATERIAL
Priming	60 - 120 CFM	Front Wear Plate	SS 316L
Tee Piece	SG 500/7	Rear Back Plate	SG 500/7
Air & Water Separator	SG 500/7	Pump Shaft	SS 431/Duplex
Pump Casing (Volute)	SG Iron 500/7	Mechanical Seal	SIC - Viton
Back Plate	SG 500/7	Bearing Housing	FG260
Bell housing to engine	FG260	Couplings	SAE 1,2,3
Bell housing to Volute	FG 260	Non return valve	Cast Iron
Impeller	SS 316L	Max. impeller dia	275

### DESIGN SPECIFICATIONS

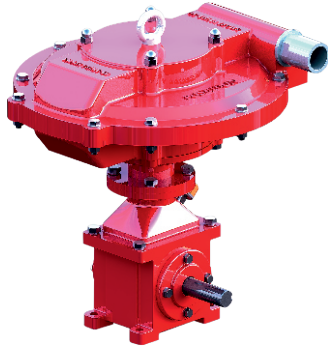
Suction Connection	150mm / 6 inch
Delivery Connection	100mm / 4 inch
Solid Handling	75mm / 3 inch
Max. Head/Max Flow	52mtr / 250m <sup>3</sup> hr
Engine bell housing	SAE3 / SAE1
Engine Fly wheel	10 inch / 14 inch
Shaft Diameter	50mm
<b>Best efficiency Point</b>	
Head and Flow	40mtr / 165m <sup>3</sup> hr

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

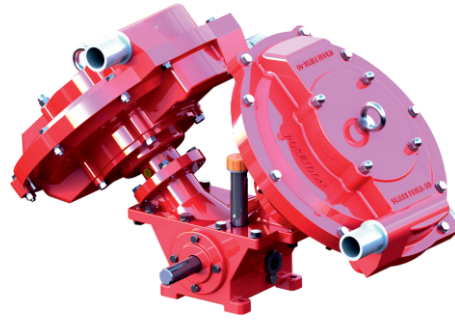
## INDRA HYDRO TECH PUMPS PVT LTD

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

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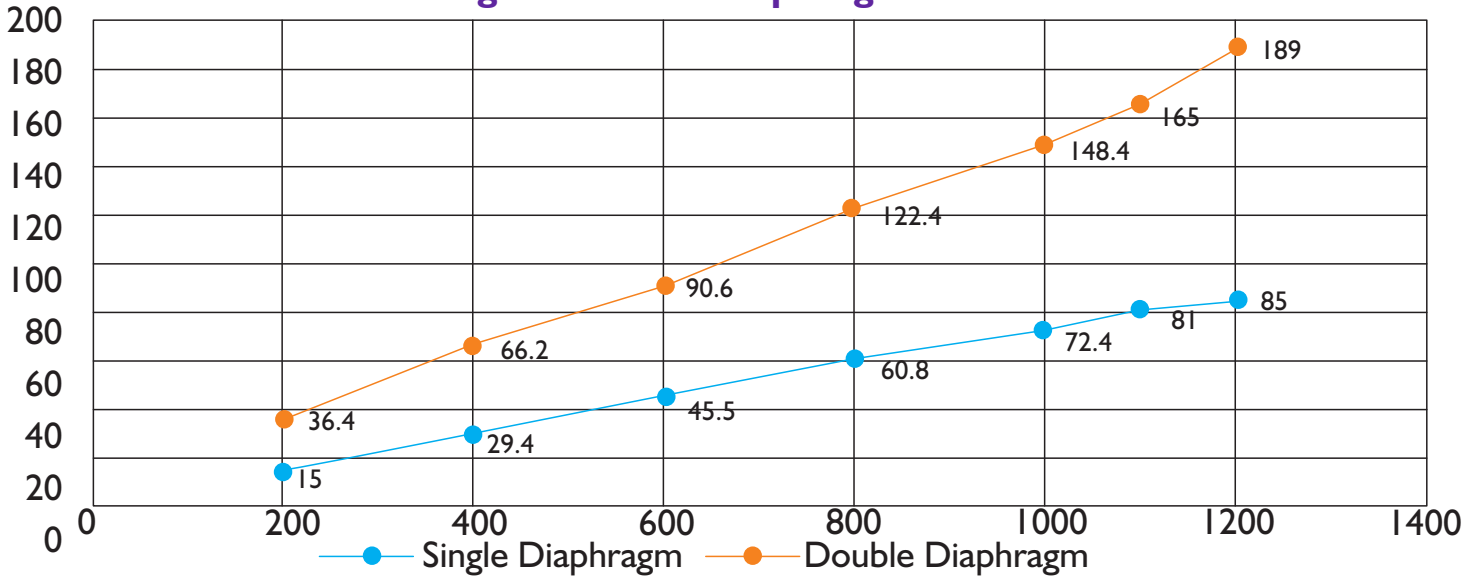


Single Diaphragm



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

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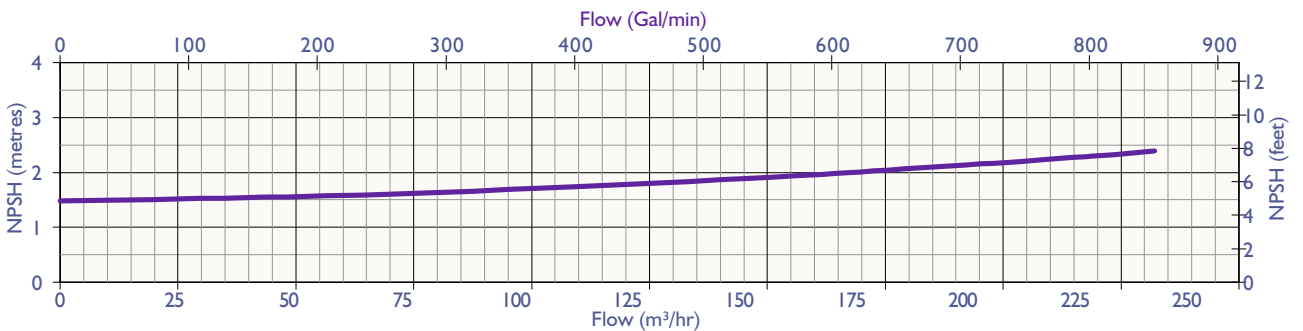
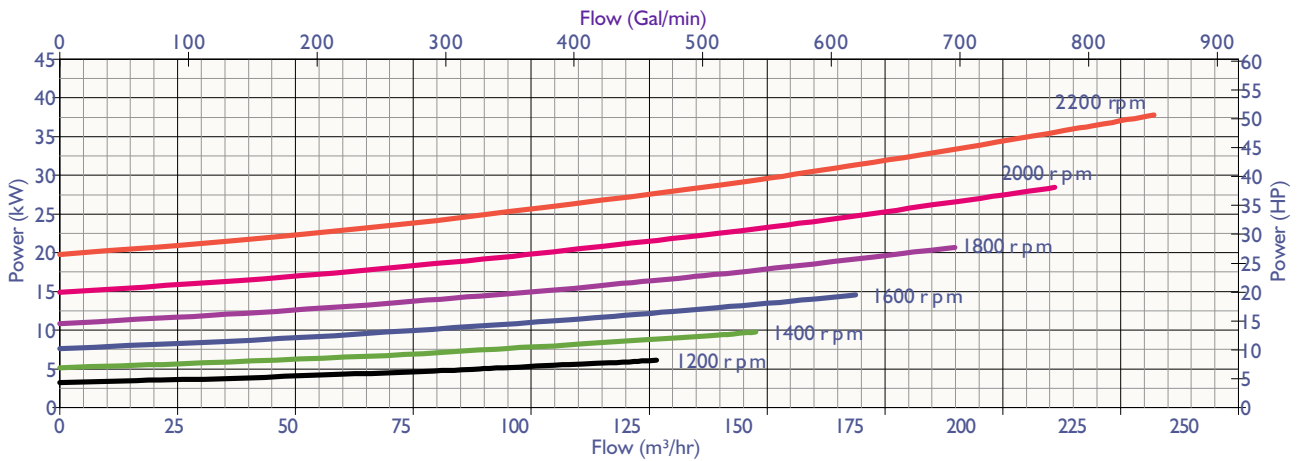
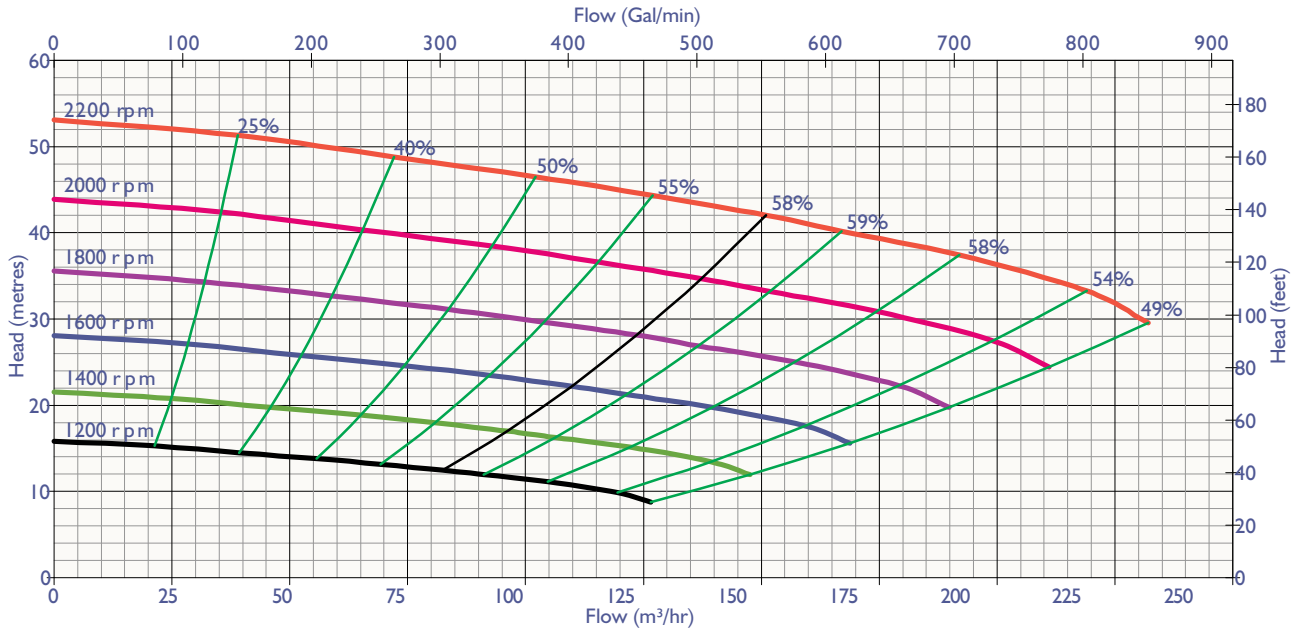
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## LOW HEAD DISCHARGE - DUTY POINT - 40M @ 165 M3/hr

<b>Pump Type:</b> De-watering (surface)	<b>Engine Rating (kW/HP):</b> 45Kw - 2200 rpm	<b>Model Number</b> LP 100 x 150 - 275	<b>Total Head (m):</b> 52
<b>Pump Serial Number:</b> LP 100 x 150 - 000702	<b>Max impeller dia</b> 275mm	<b>Type of impeller</b> 3 vane semi open impeller	<b>Max. Discharge (m3/hr):</b> 250
<b>Delivery Size (inch):</b> 100mm	<b>Suction size</b> 150mm	<b>Impeller Dia</b> 275mm	<b>Speed Range(rpm)</b> 1500 to 2200 rpm
<b>Number of Stages in Pump:</b> 1	<b>Efficiency</b> 58%	<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

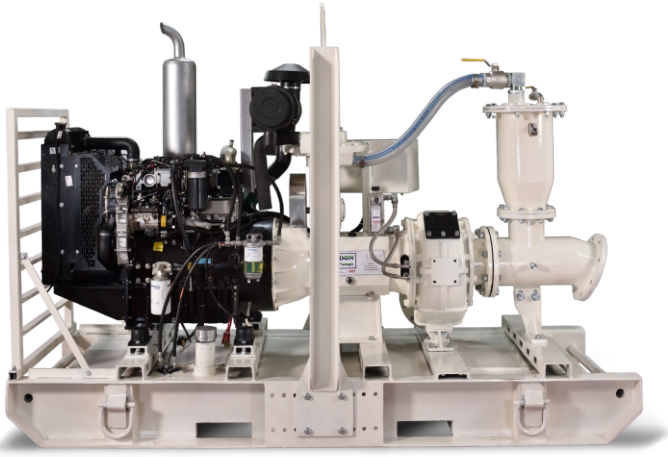
Updated on 12/11/2022

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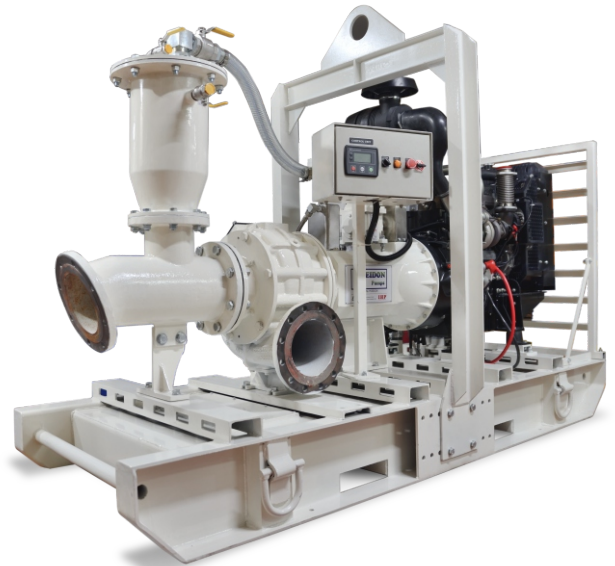
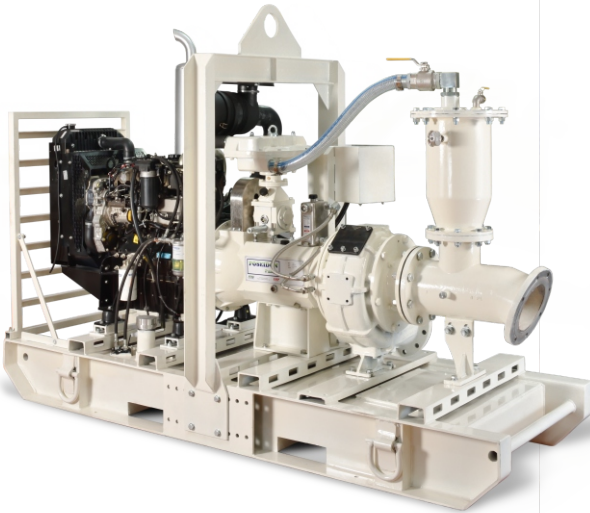
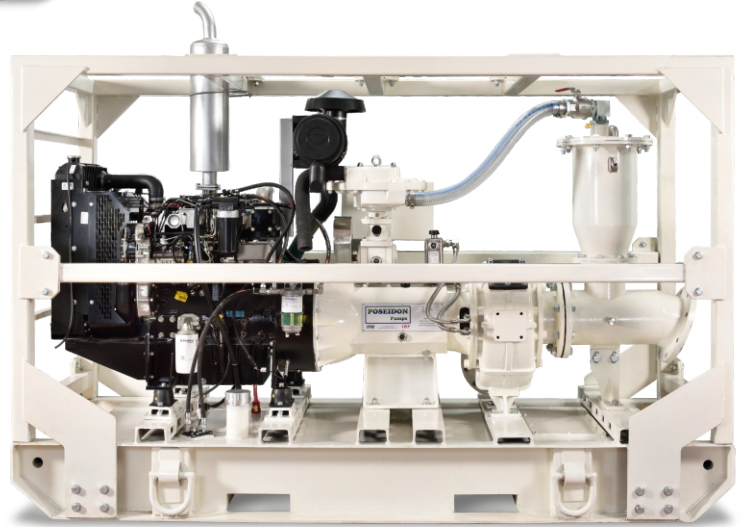
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All pumps can be supplied with optional sound and weather covers for the engine only or for the whole pump-set.

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

Updated on 12/11/2022

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