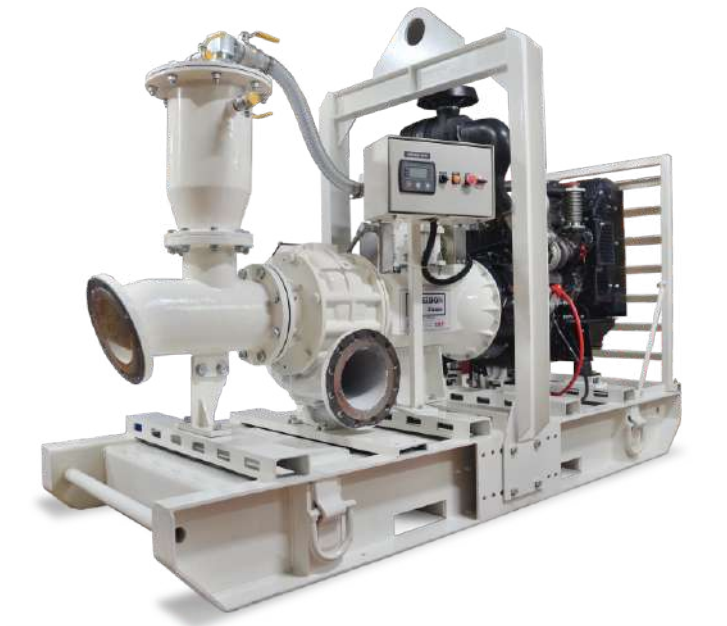


LP SERIES 4" TO 20" LOW HEAD HIGH FLOW PUMP WITH SEMI OPEN IMPELLER



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		

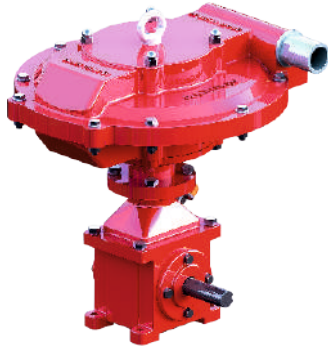
Optional I. Upon request a full stainless steel 316L, CD4MCU and any other special alloys

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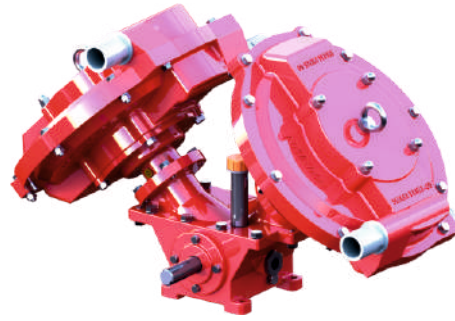
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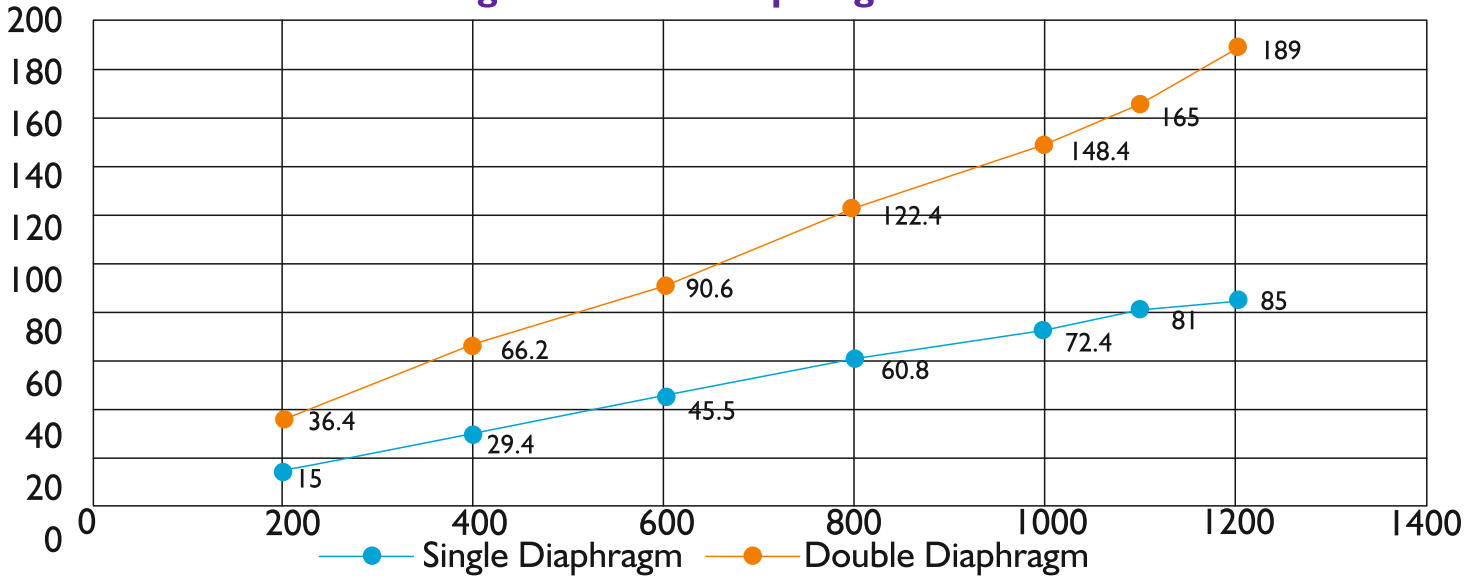


Single Diaphragm



Twin Diaphragm

Single and Twin Diaphragm Flow vs CFM



Priming time 60 cfm

Pipe internal diameter mm	Area m ²	60cfm Volume pumps m ³ /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 ²	120cfm Volume pumps m ³ /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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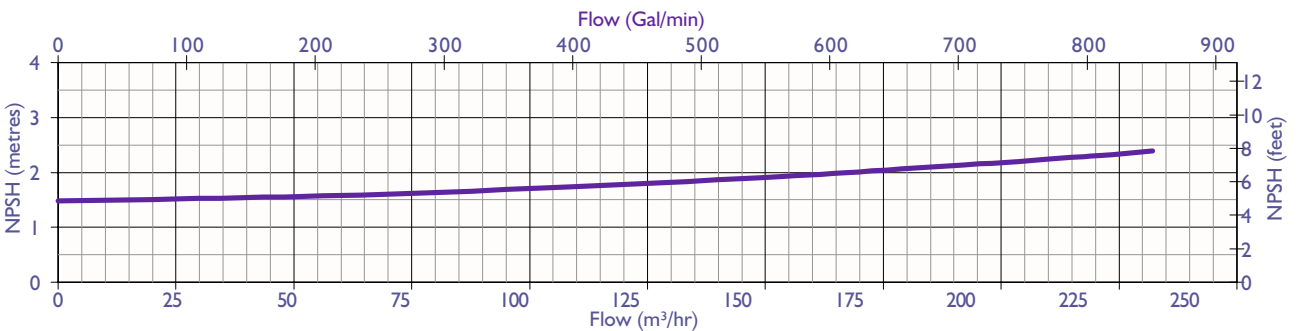
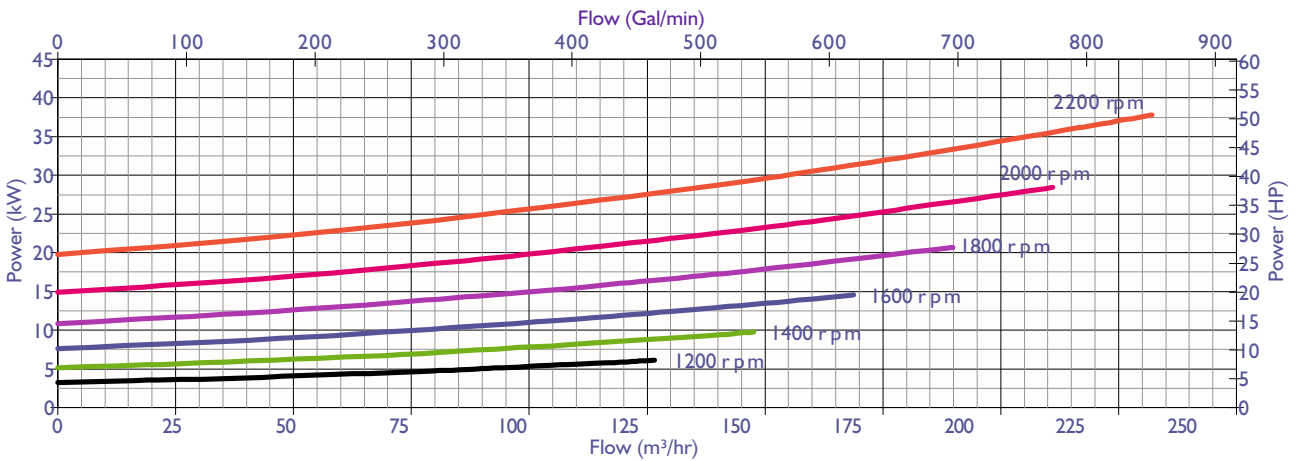
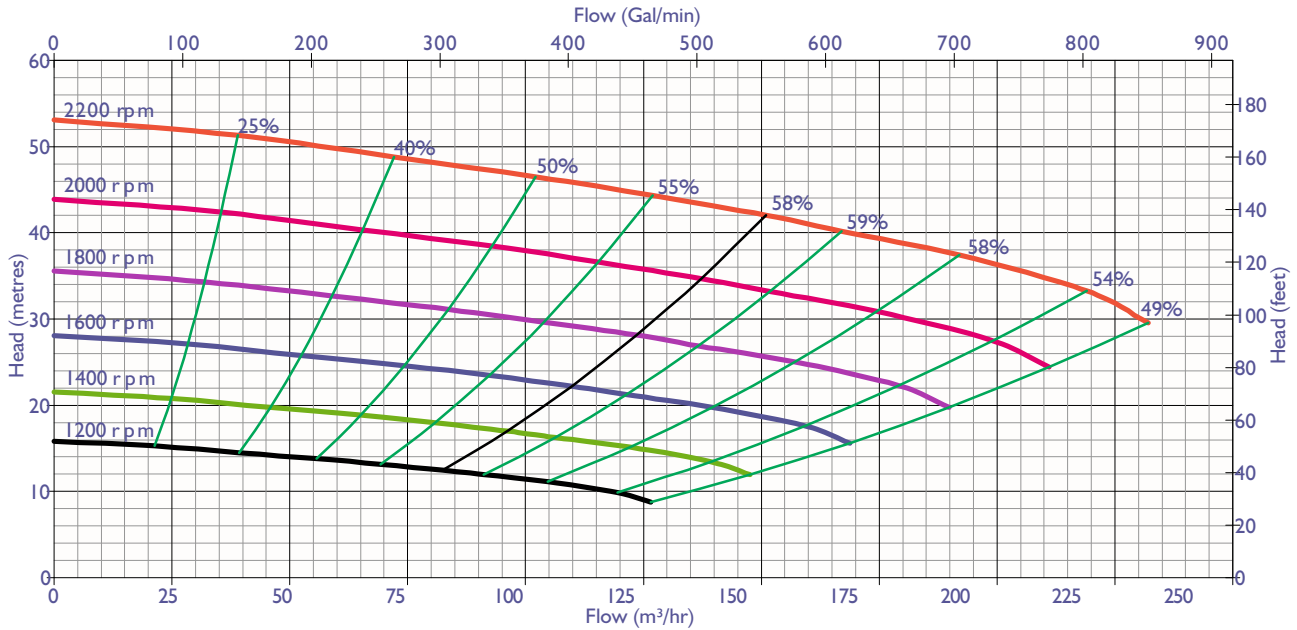
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LOW HEAD DISCHARGE - DUTY POINT - 40M @ 165 M3/hr

Pump Type: De-watering (surface)	Engine Rating (kW/HP): 45Kw - 2200 rpm	Model Number LP 100 x 150 - 275	Total Head (m): 52
Pump Serial Number: LP 100 x 150 - 000702	Max impeller dia 275mm	Type of impeller 3 vane semi open impeller	Max. Discharge (m3/hr): 250
Delivery Size (inch): 100mm	Suction size 150mm	Impeller Dia 275mm	Speed Range(rpm) 1500 to 2200 rpm
Number of Stages in Pump: 1	Efficiency 58%	Max. solid handling 75mm or 3 inches	Method of coupling SAE 3/10

PERFORMANCE CURVE



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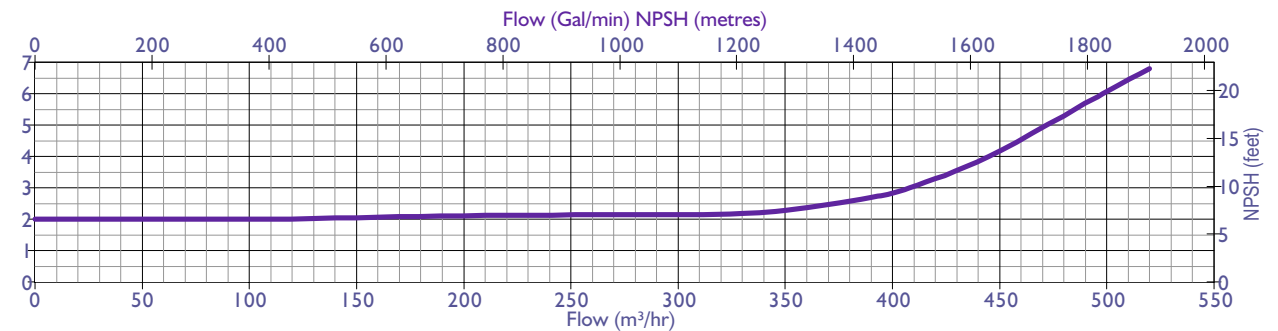
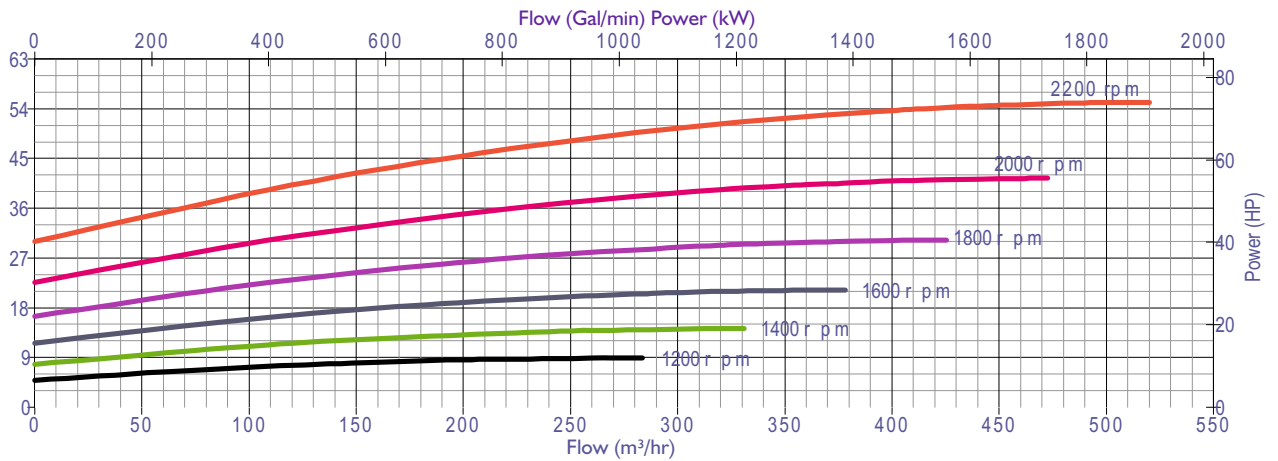
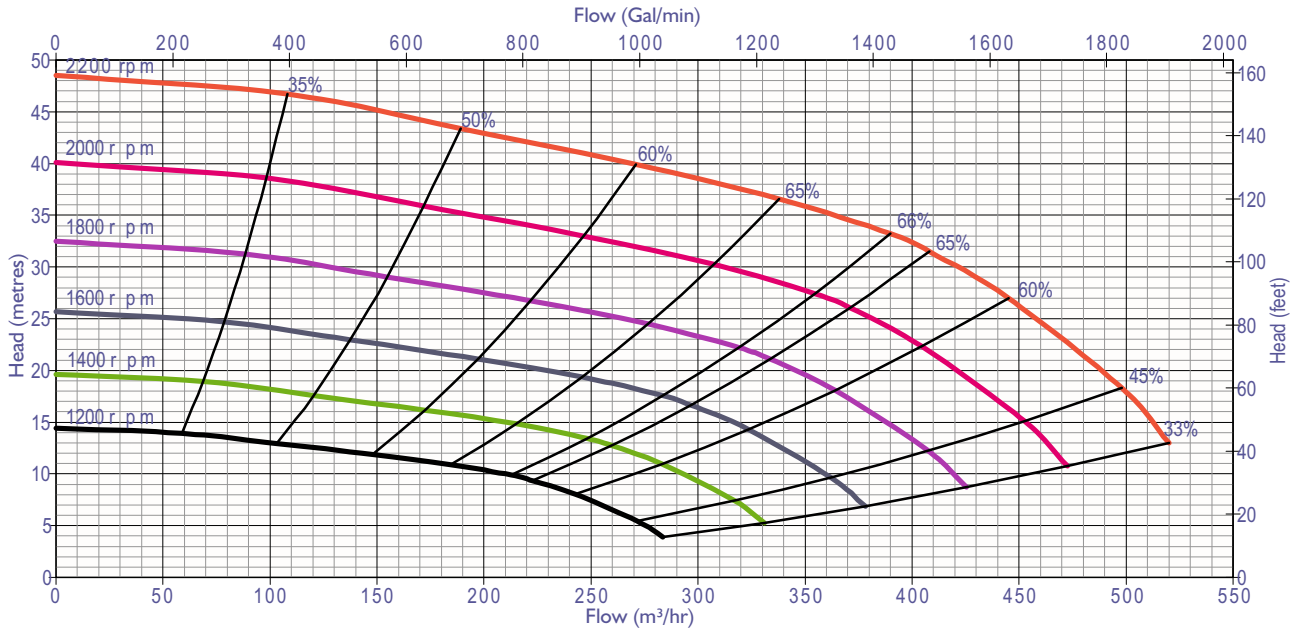
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LOW HEAD DISCHARGE - DUTY POINT - 34M @ 375 M3/hr

Pump Type: De-watering (surface)	Engine Rating (kW/HP): 55Kw - 2200 rpm	Model Number LP 150 x 150 - 282	Total Head (m): 48
Pump Serial Number: LP 150 x 150 - 000702	Max impeller dia 282mm	Type of impeller 3 vane semi open impeller	Max. Discharge (m3/hr): 500
Delivery Size (inch): 150mm	Suction size 150mm	Impeller Dia 282mm	Speed Range(rpm) 1500 to 2200 rpm
Number of Stages in Pump: 1	Efficiency 64%	Max. solid handling 75mm or 3 inches	Method of coupling SAE 3/10

PERFORMANCE CURVE



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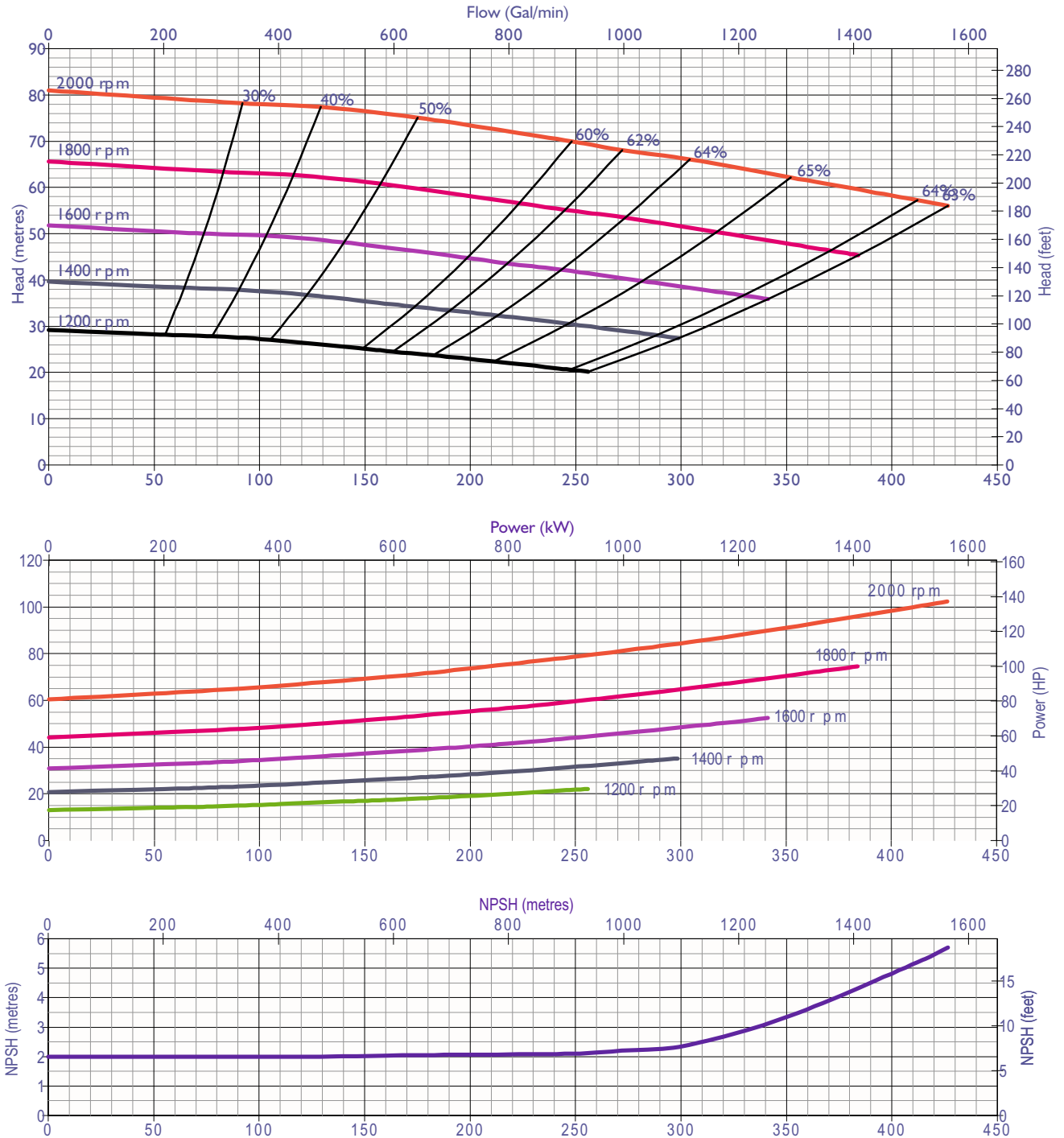
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LOW HEAD DISCHARGE - DUTY POINT - 52M @ 350 M3/hr

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

PERFORMANCE CURVE



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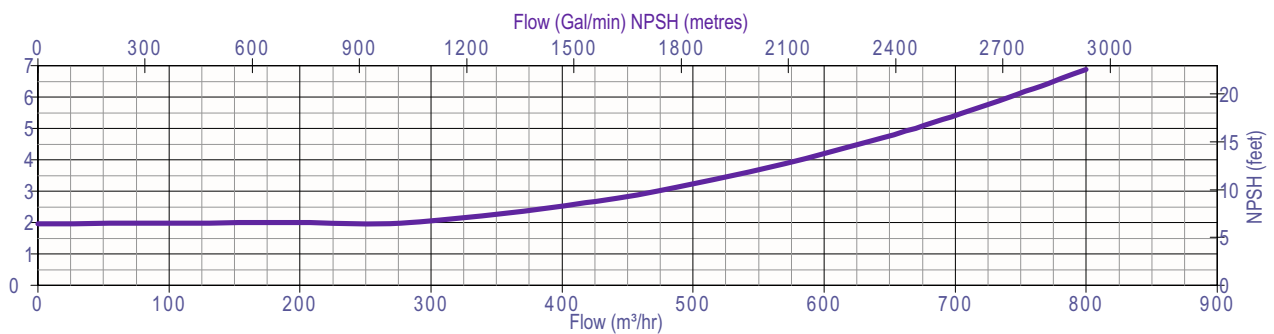
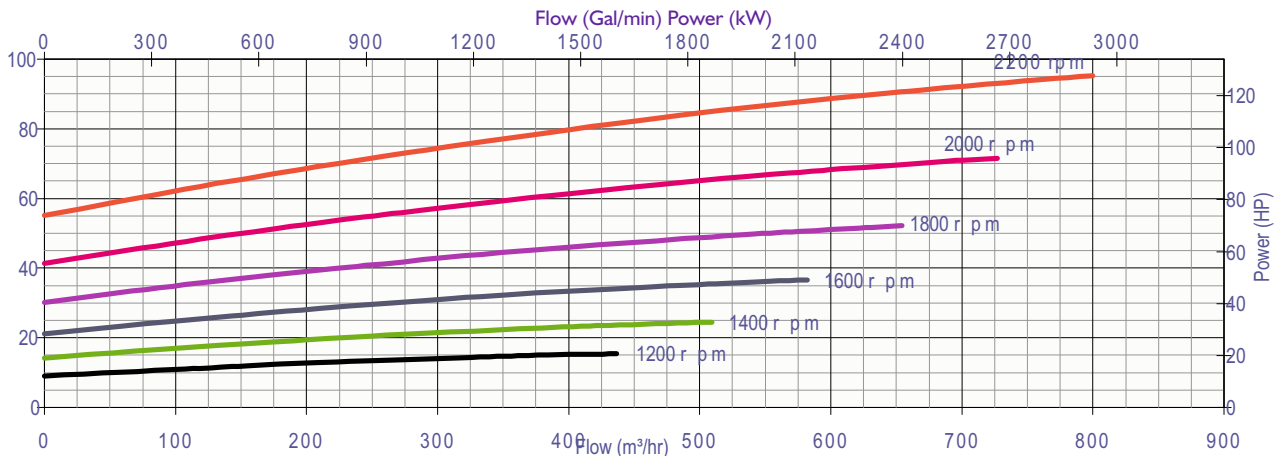
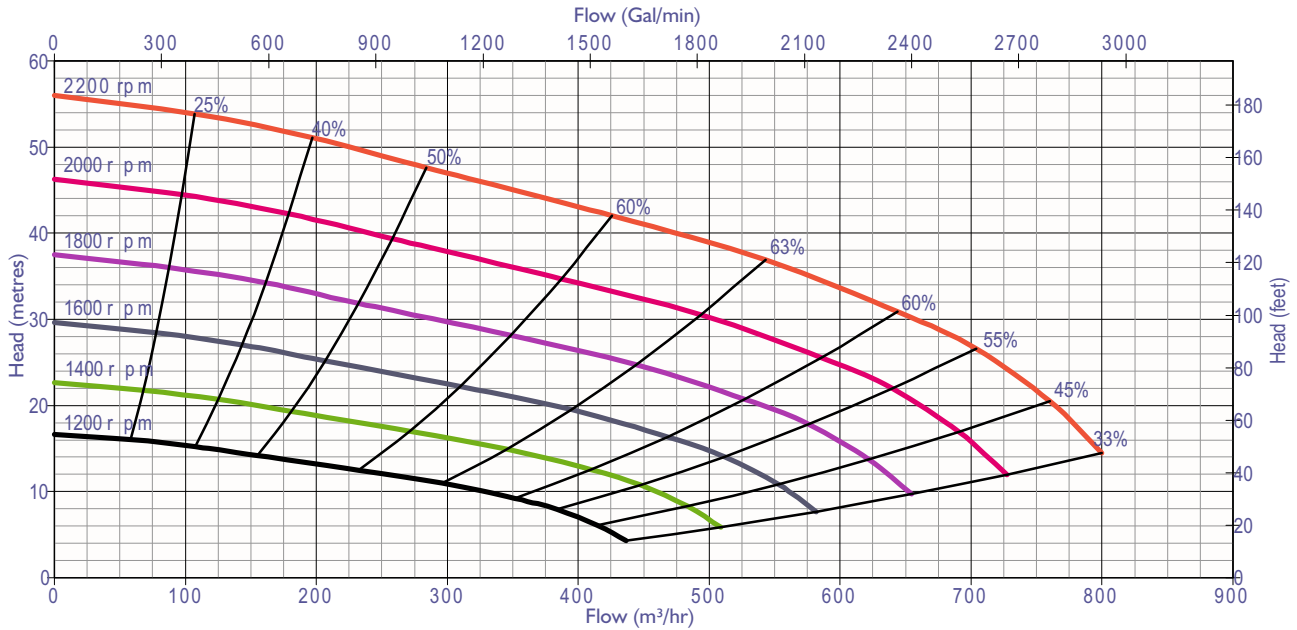
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LOW HEAD DISCHARGE - DUTY POINT - 38M @ 550 M3/hr

Pump Type: De-watering (surface)	Engine Rating (kW/HP): 110Kw - 2200 rpm	Model Number LP 200 x 200 - 295	Total Head (m): 55
Pump Serial Number: LP 200 x 200 - 000702	Max impeller dia 295mm	Type of impeller 3 vane semi open impeller	Max. Discharge (m3/hr): 800
Delivery Size (inch): 200mm	Suction size 200mm	Impeller Dia 295mm	Speed Range(rpm) 1500 to 2200 rpm
Number of Stages in Pump: 1	Efficiency 62%	Max. solid handling 75mm or 3 inches	Method of coupling SAE 3/10

PERFORMANCE CURVE



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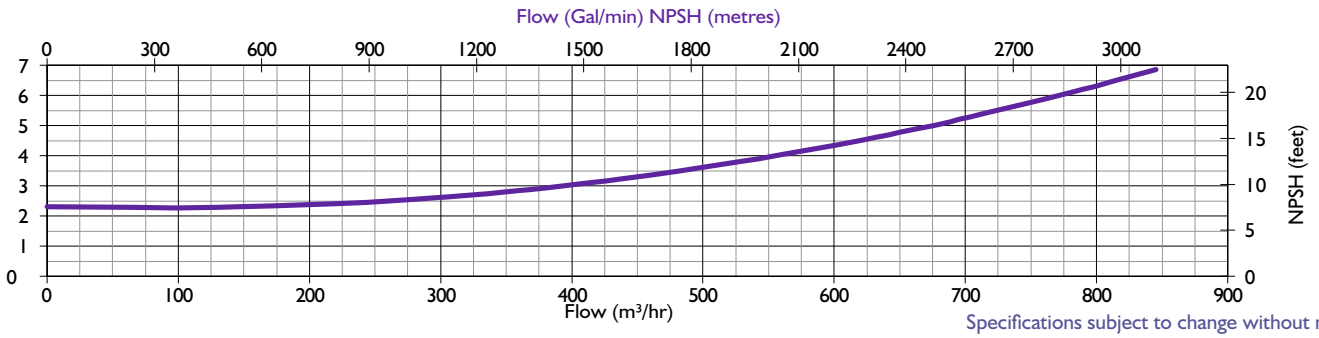
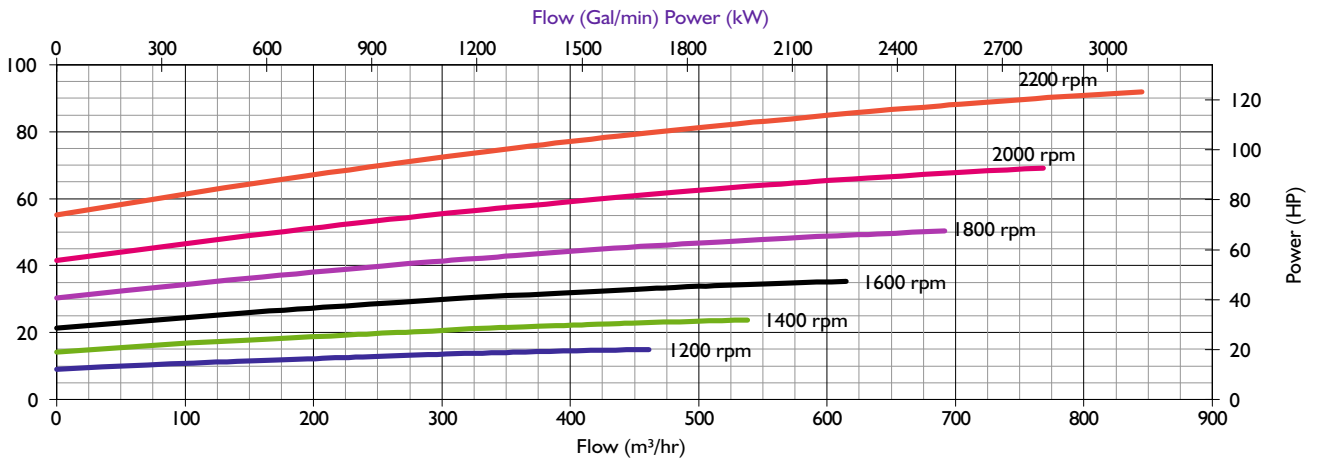
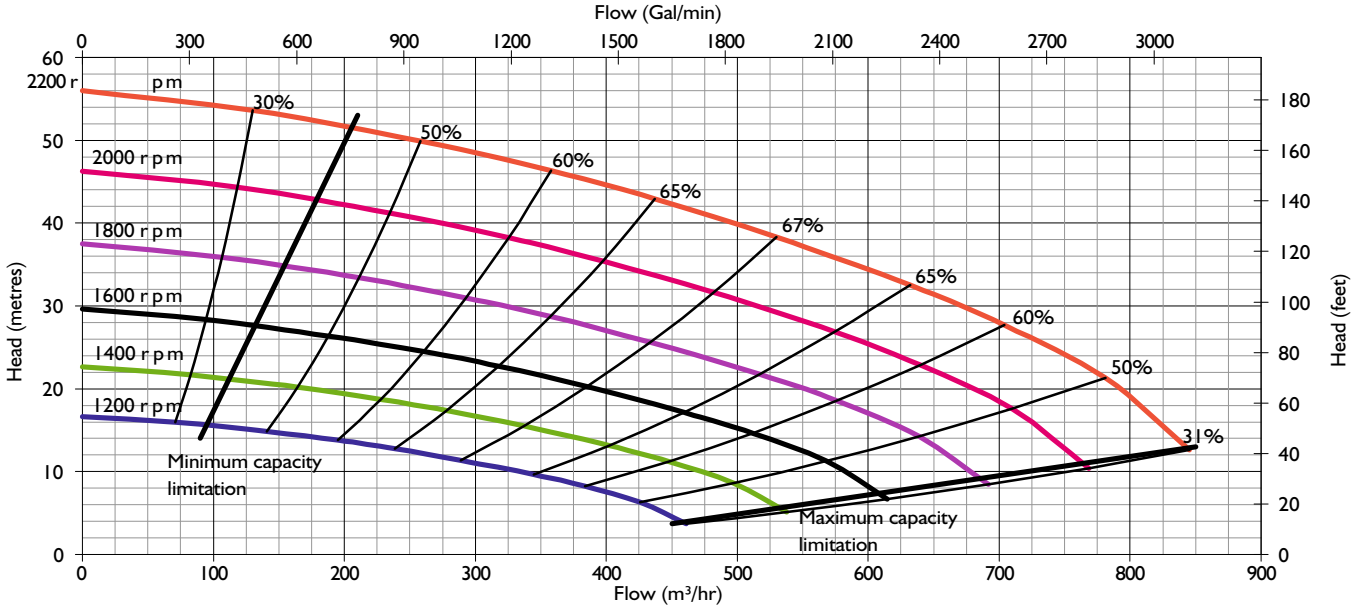
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LOW HEAD DISCHARGE - DUTY POINT - 30M @ 620 M3/hr

Pump Type: De-watering (surface)	Engine Rating (kW/HP): 110Kw - 2200 rpm	Model Number LP250x250-295	Total Head (m): 55
Pump Serial Number: LP250x250-00702	Max impeller dia 295 mm	Type of impeller 3 Vane Semi open impeller	Max. Discharge (m3/hr): 850
Delivery Size (inch): 250 mm or 10"	Suction size 250 mm or 10"	Impeller Dia 295 mm	Speed Range(rpm) 1500 - 2200
Number of Stages in Pump: 1	Efficiency 65%	Max. solid handling 75 mm or 3"	Method of coupling SAE 3/10

PERFORMANCE CURVE



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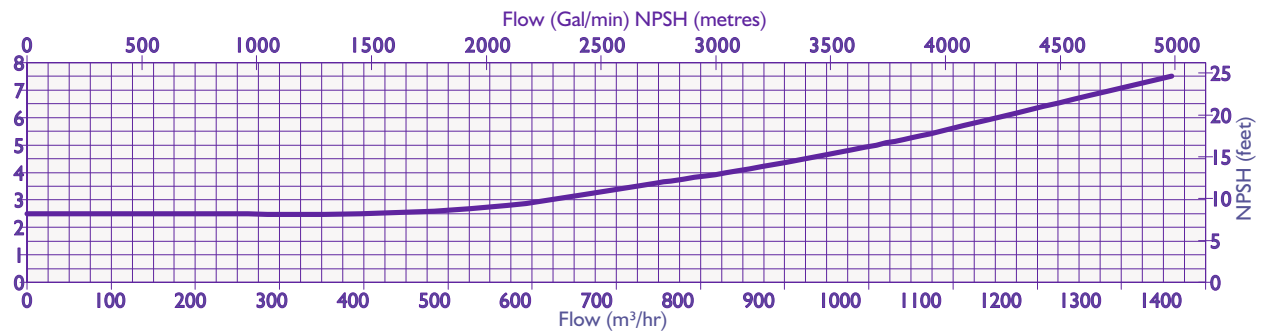
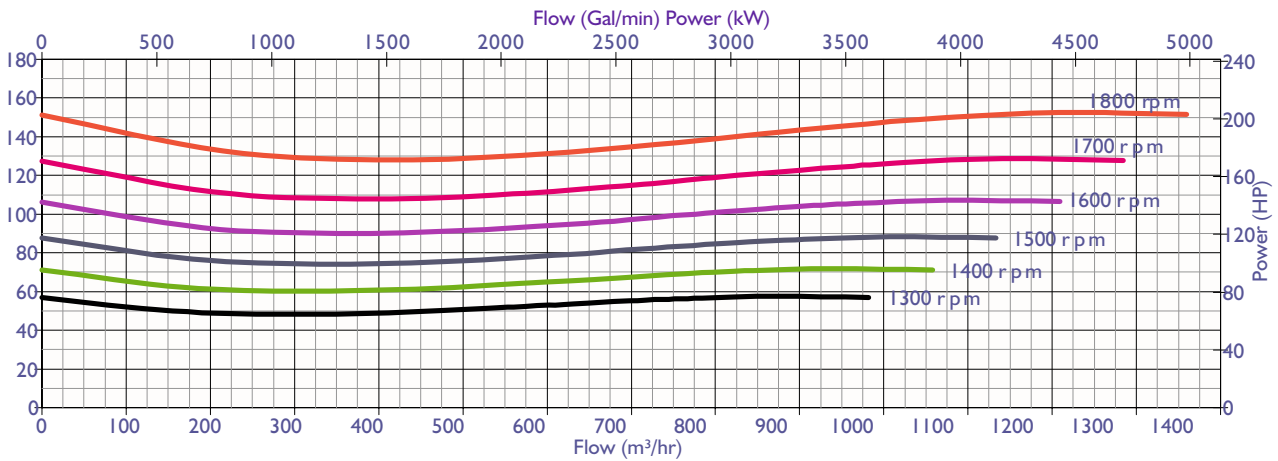
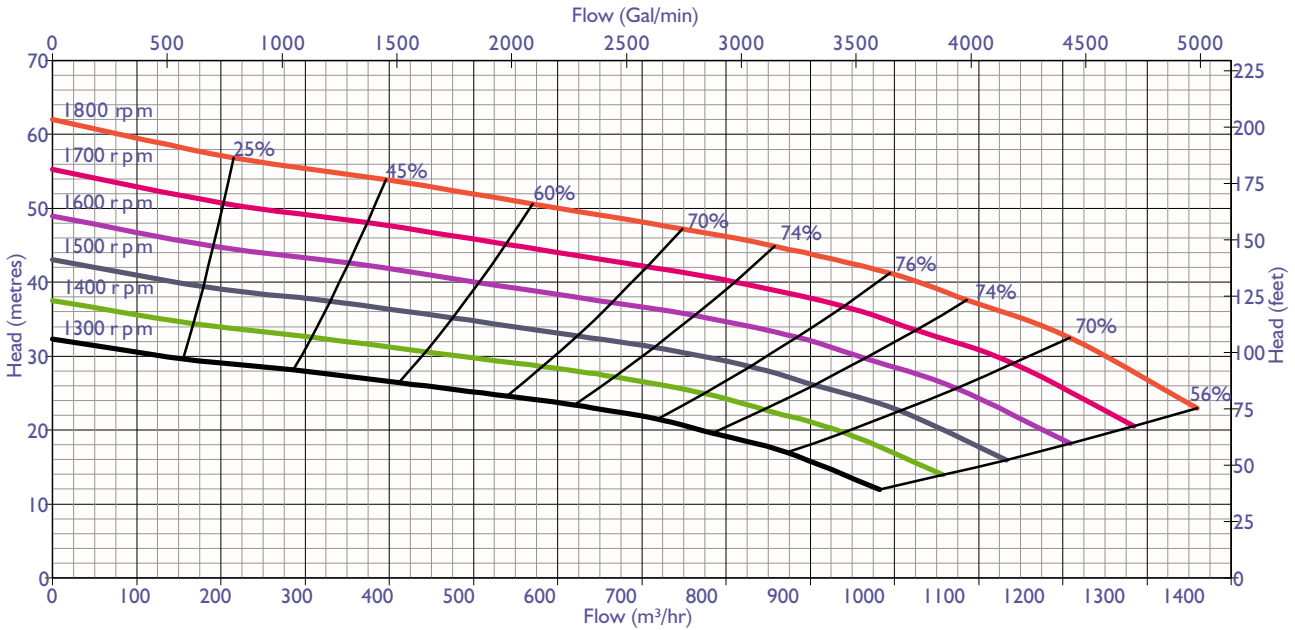
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LOW HEAD DISCHARGE - DUTY POINT - 42M @ 1000 M3/hr

Pump Type: De-watering (surface)	Engine Rating (kW/HP): 160Kw - 1800 rpm	Model Number LP 300 x 300 - 359	Total Head (m): 62
Pump Serial Number: LP 300 x 300 - 000702	Max impeller dia 359mm	Type of impeller 3 vane semi open impeller	Max. Discharge (m3/hr): 1400
Delivery Size (inch): 300mm	Suction size 300mm	Impeller Dia 359mm	Speed Range(rpm) 1500 to 1800 rpm
Number of Stages in Pump: 1	Efficiency 75%	Max. solid handling 100mm or 4 inches	Method of coupling SAE 3/10

PERFORMANCE CURVE



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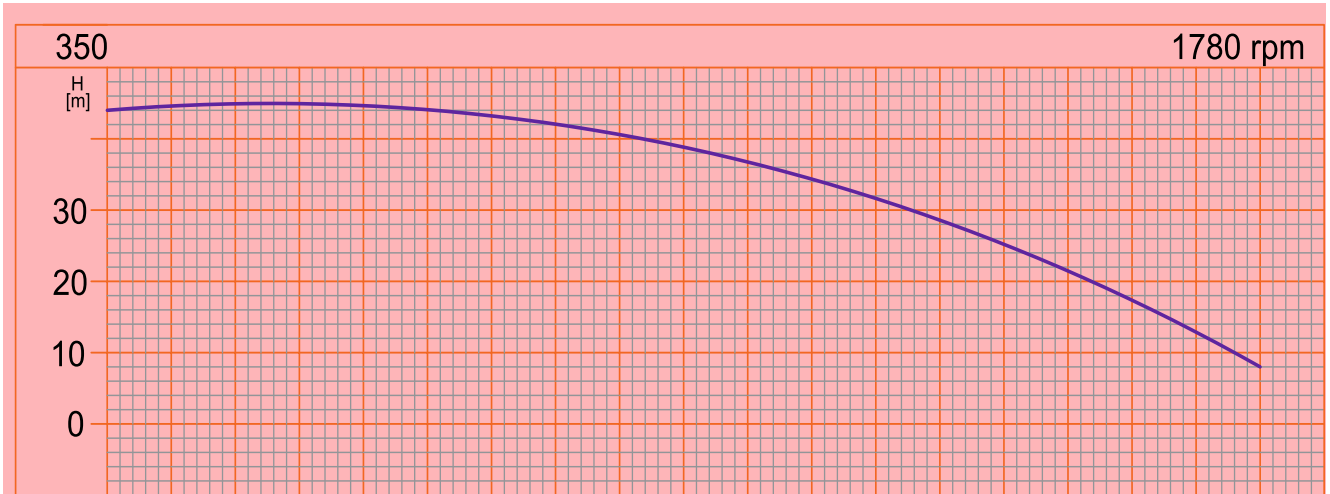
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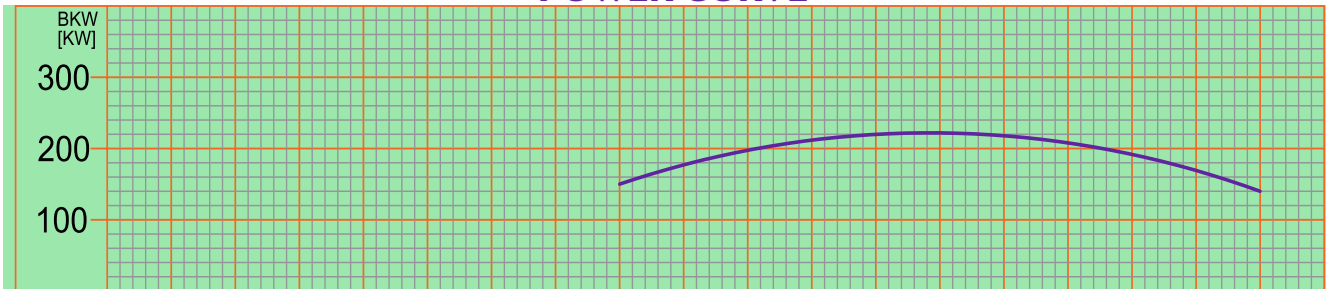
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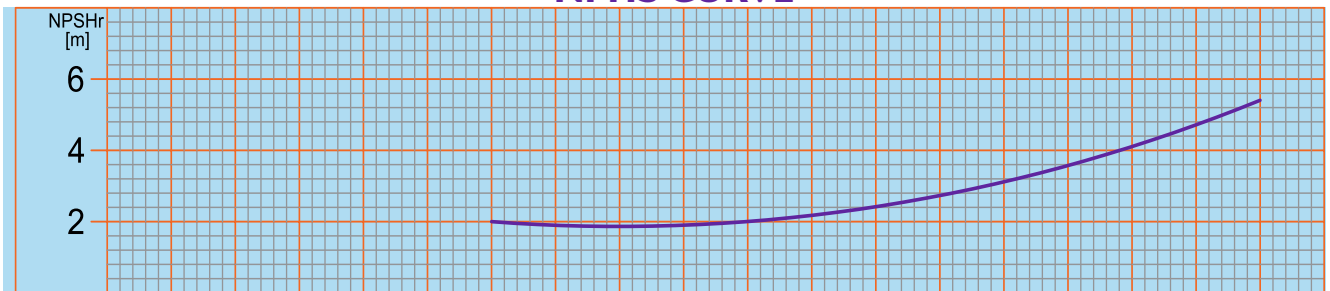
PERFORMANCE CURVE



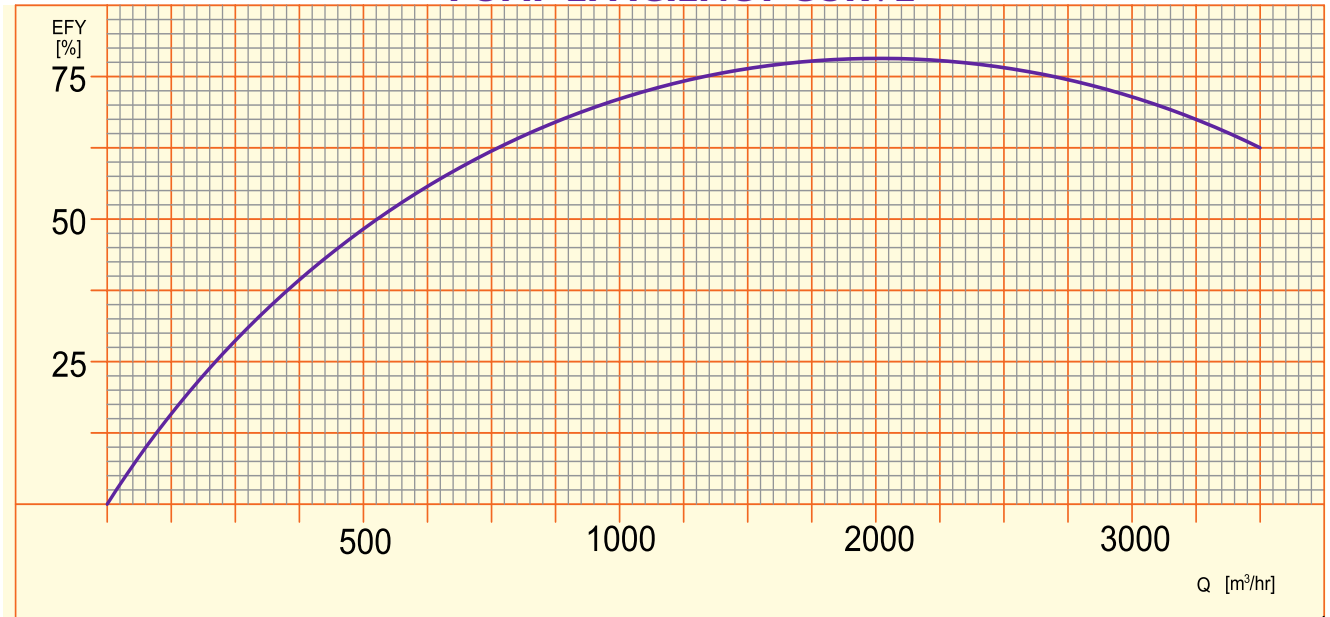
POWER CURVE



NPHS CURVE



PUMP EFFICIENCY CURVE



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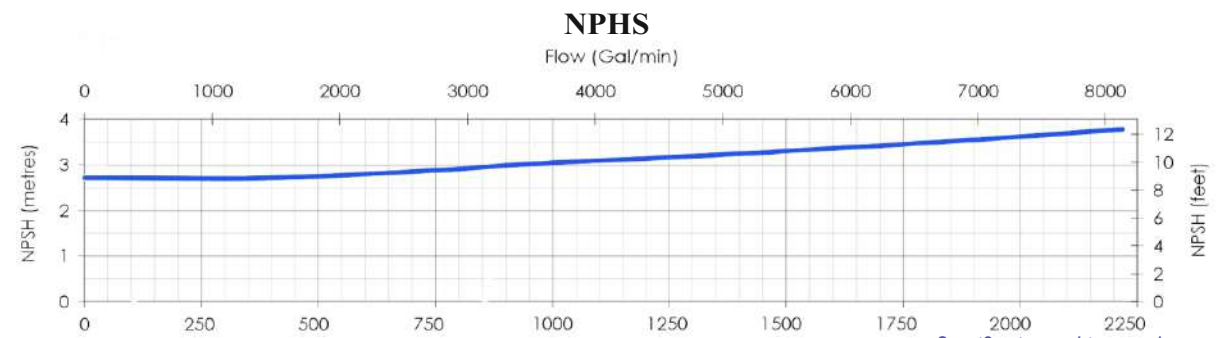
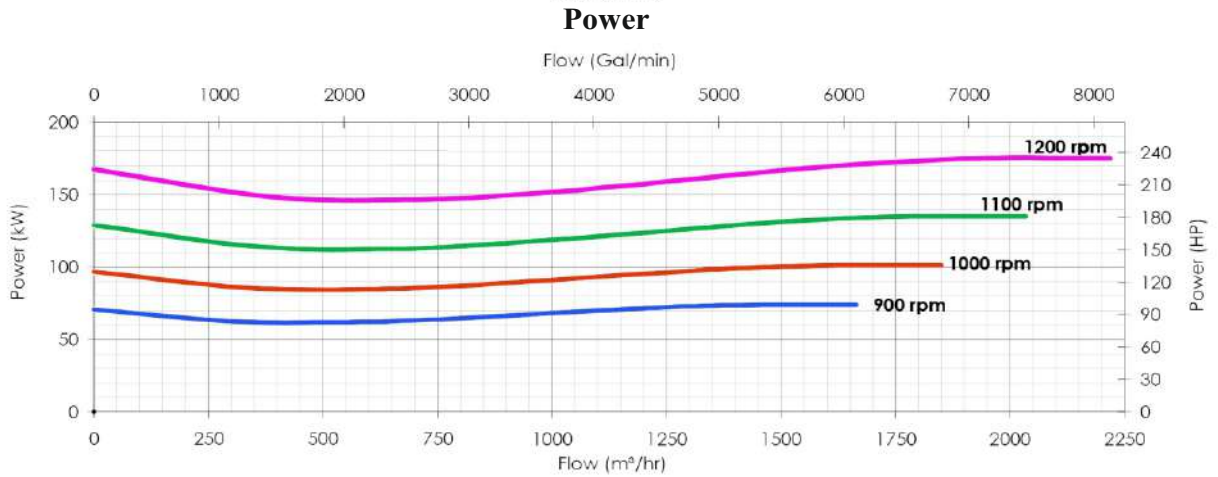
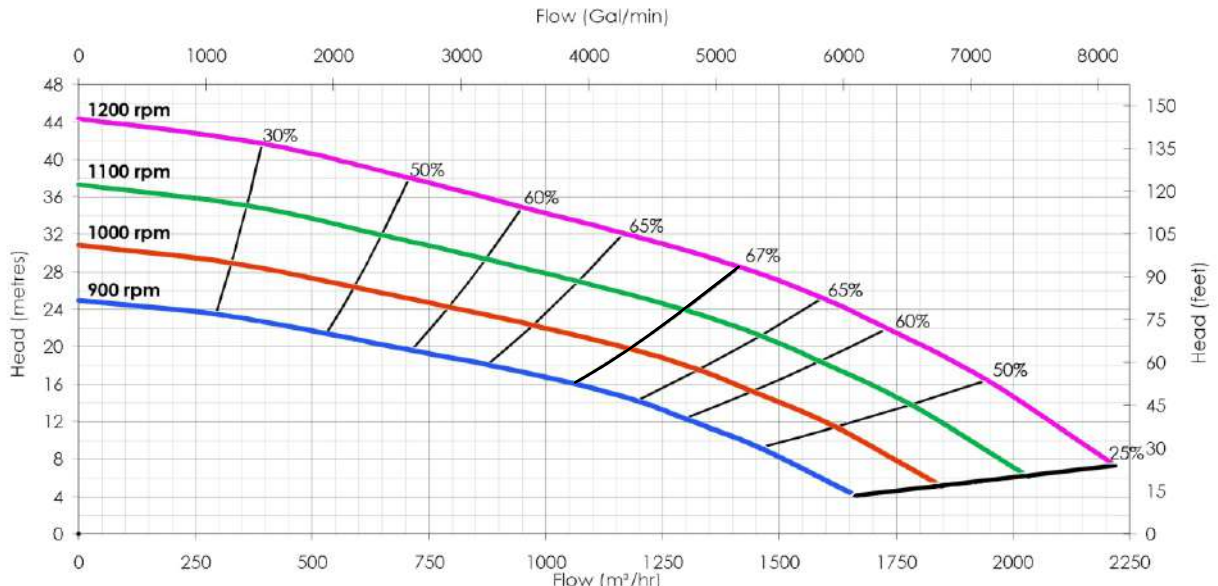
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LOW HEAD DISCHARGE - DUTY POINT - 28M @ 1500 M3/hr

Pump Type: De-watering (surface)	Engine Rating (kW/HP): 205Kw@1800 rpm(Cats)	Model Number LP450x400-500	Total Head (m): 44
Pump Serial Number: Lp450x400	Max impeller dia 500 mm	Type of impeller 3 Vane Semi open impeller	Max. Discharge (m3/hr): 2200
Delivery Size (inch): 400 mm or 16"	Suction size 450 mm or 18"	Max Impeller Dia 500 mm	Speed Range(rpm) 900 - 1200
Number of Stages in Pump: 1	Efficiency 67%	Max. solid handling 125 mm or 5"	Max working Pressure 5 bar

Performance Curve



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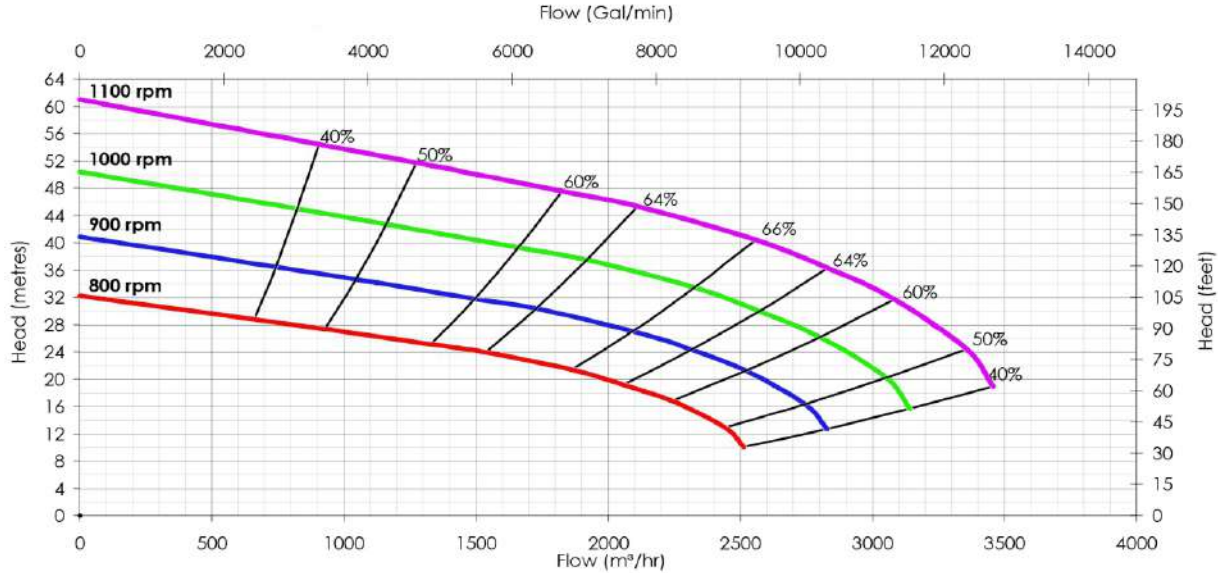
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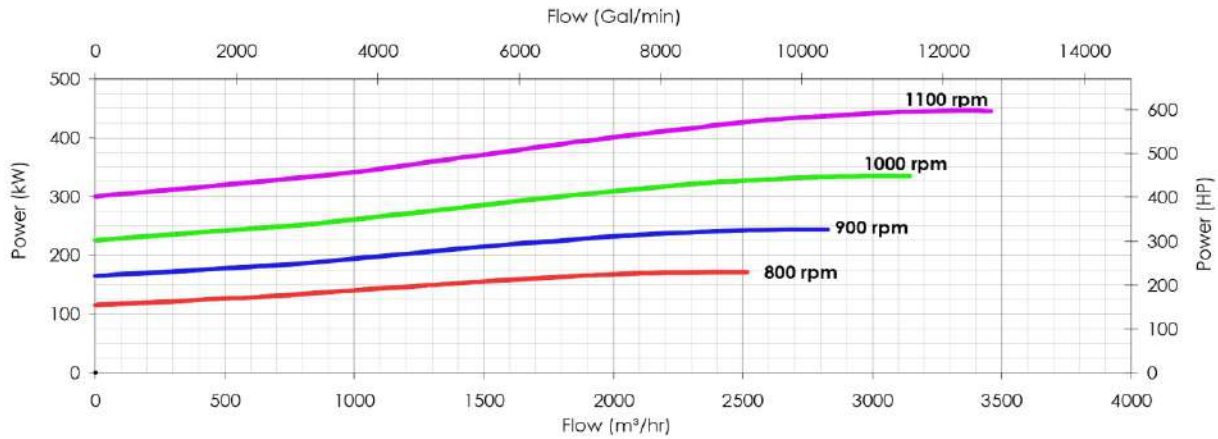
LOW HEAD DISCHARGE - DUTY POINT - 40M @ 2500 M3/hr

Pump Type: De-watering (surface)	Engine Rating (kW/HP): 475Kw@1100 rpm	Model Number LP 600x500-600	Total Head (m): 60
Pump Serial Number: LP 600x500	Max impeller dia 610 mm	Type of impeller 3 Vane Semi open impeller	Max. Discharge (m3/hr): 3500
Delivery Size (inch): 500 mm or 20"	Suction size 600 mm or 24"	Max Impeller Dia 610 mm	Speed Range(rpm) 800 - 1100
Number of Stages in Pump: 1	Efficiency 66%	Max. solid handling 100 mm or 4"	Max working Pressure 6 bar

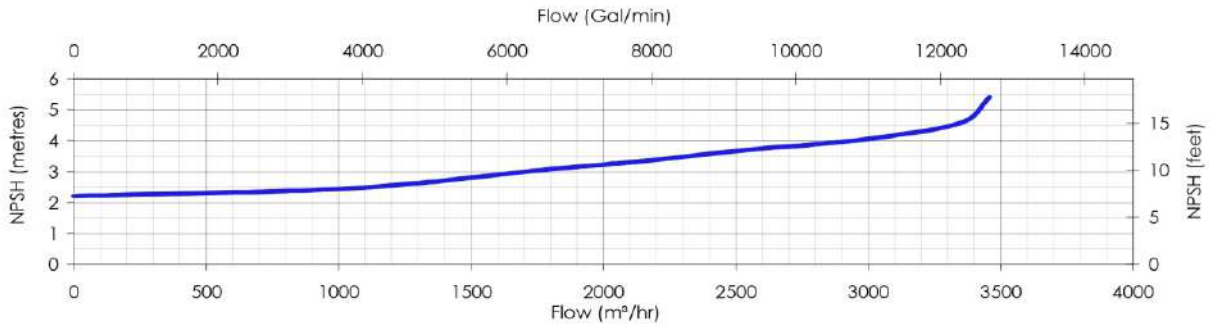
Performance Curve



Power



NPSH



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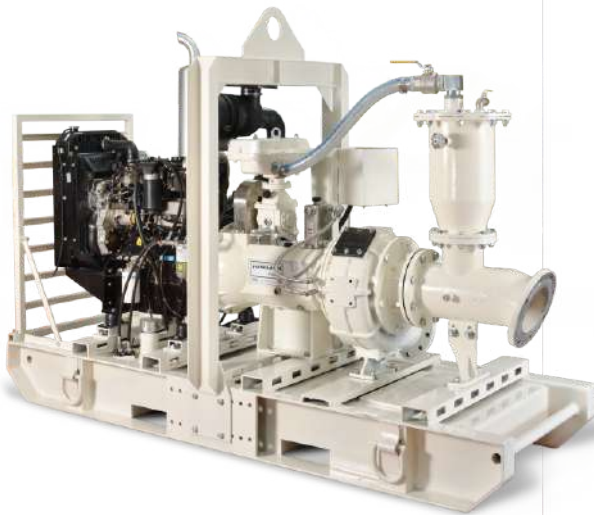
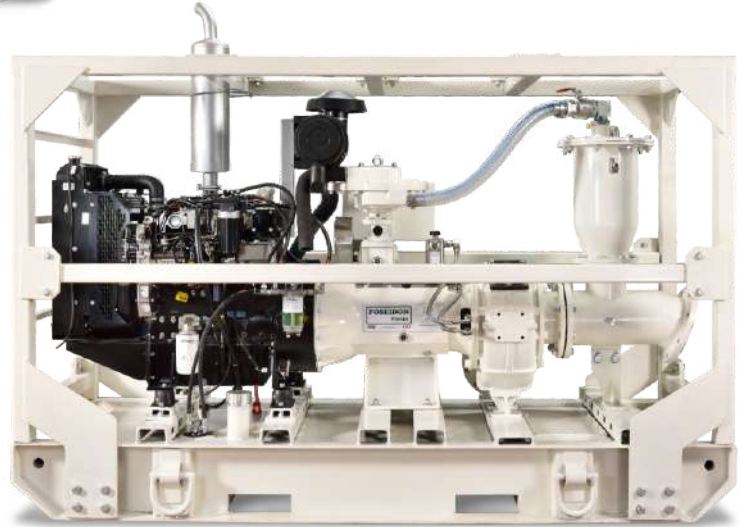
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All pumps can be supplied with optional sound and weather covers for the engine only or for the whole pump-set.

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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