



SOVEREIGN PUMPS

Innovative pumps for the future...



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www.sovereignpumps.com

Pump Selection Guide

Medium Head Dewatering Pump

Pump Model	HP	KW	Outlet	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	Max. Head	Duty Point
SPG11M/MS	1.5	1.12	2"	450	350	200	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.5	250/10	
SPG21M	2	1.5	2"	625	530	350	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	350/10	
SPG22M/MS	2	1.5	3"	900	700	500	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	500/10	
SPG32M/MS	3	2.2	3"	1250	1100	675	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	675/11	
SPG42M	4	3	3"	1400	1200	850	425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.5	750/11	
SPG53L	5	3.7	4"	2150	1875	1500	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	1550/10	
SPG53M	5	3.7	4"	1400	1300	1150	850	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	850/15	
SPG73M	7.5	5.6	4"	2600	2300	1800	1400	900	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.5	1100/16	
SPG103M	10	7.5	4"	3000	2700	2300	1750	1200	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	1100/20	
SPG164M	16	11.9	6"	4250	4000	3500	2800	2250	1700	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	2800/15	
SPG254M	25	18.6	6"	6000	5500	5000	4500	3750	3000	2200	1400	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	3750/21	
SPG355M	35	26	6"/8"	7000	6600	6250	5750	5300	4500	3500	2500	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	4500/25	
SPG505M	50	37.2	6"/8"	8500	8250	7750	7250	6700	5700	4600	3600	2000	600	-	-	-	-	-	-	-	-	-	-	-	-	-	47	5700/26	

High Head Dewatering Pump

Pump Model	HP	KW	Outlet	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	Max. Head	Duty Point
SPG53H	5	3.7	3"	-	-	-	400	350	325	300	250	150		-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	250/36
SPG73H	7.5	5.6	3"	-	-	-	-	-	-	650	475	300	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	650/32
SPG103H	10	7.5	3"	-	-	-	-	-	-	800	650	425	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	650/36
SPG164H	16	11.9	4"	-	-	-	-	-	-	980	900	850	725	675	500	400	250	-	-	-	-	-	-	-	-	-	-	72	675/49
SPG254H	25	18.6	4"	-	-	-	-	-	-	1700	1600	1400	1200	1100	900	750	400	-	-	-	-	-	-	-	-	-	-	76	1100/51
SPG355H	35	26	6"	-	-	-	-	-	-	2500	2250	2000	1900	1800	1625	1400	1200	1000	600	200		-	-	-	-	-	-	80	1625/55
SPG505H	50	37.2	6"	-	-	-	-	-	-	3500	3300	3200	3000	2800	2600	2300	2000	1775	1350	800	100	-	-	-	-	-	-	88	1755/70

Super Head Dewatering Pump

Pump Model	HP	KW	Outlet	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	200	Max. Head	Duty Point
SPG1004SH	100	75	4"	-	-	-	-	-	-	-	-	2050	1900	1775	1725	1625	1500	1400	1250	1100	950	750	500	0	-	-	-	180	1250/155
SPG1206SH	120	90	6"	3520	3475	3375	3250	3125	3000	2875	2750	2650	2525	2450	2300	2125	2000	1800	1650	1475	1250	1125	950	800	625	250	0	200	2400/133

Non Clog Pump

Pump Model	HP	KW	Outlet	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	Max. Head	Duty Point
SPNC63M	6	4.5	4"	1250	1000	750	450	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	450/16
SPNC83M	8	6	4"	1400	1150	950	700	500	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	700/16
SPNC103M	10	7.5	4"	1500	1300	1100	825	600	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	825/16

Sewage Pump

Pump Model	HP	KW	Outlet	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	Max. Head	Duty Point
SPS77S	7.5	5.6	4"	2400	2050	1550	950	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	1200/13
SPS107SH	10	7.5	4"	3250	2950	2450	1825	1000	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	1650/16
SPS158S	15	11	6"	6500	5500	4250	2700	1350	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	3000/14
SPS208S	20	15	6"	7200	6250	4900	3500	2100	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	3500/15

Slurry Pump

Pump Model	HP	KW	Outlet	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	Max. Head	Duty Point
SPSL53S	5	3.7	3	-	1200	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.5	885/8.5
SPSL74S	7.5	5.6	4	-	1925	1375	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	1110/12
SPSL104S	10	7.5	4	-	2225	1750	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.5	1415/13
SPSL156S	15	11.2	6	-	4000	3250	2250	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	2830/12.5
SPSL206S	20	15	6	-	3000	2800	2500	2100	1550	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	1550/25
SPSL306S	30	22.4	6	-	5700	5400	4600	3700	2400	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.5	3615/20.5

Note: Flow is in LPM & Head in Meters

About Us

We at SPSPL are having vast experience in the field of pumps & its working technologies. With experience of more than 50 years in pumps & motors field. We would like to share our hydraulic & design knowledge for pumping industry. SPSPL started in January 2021 to serve markets of De-watering, STP, ETP industries etc. SPSPL has setup its manufacturing facility located at Ambernath, Thane District, Maharashtra, India. SPSPL plant area is of 13,544 Sq.ft, equipped with state of art modern facility to carryout testing of pumps with range upto 200 HP with full back up power. We at SPSPL have fully equipped In- House Motor Winding facility which is added advantage. SPSPL has well diversified network of dealer & distributor to cater today dewatering sewage pumps & Slurry Pumps industry requirements. Our Dealer Distributor are well versed with industries & have the right approach & setup towards servicing the client needs. With growing markets & infrastructure boom we would like to diversify & expand our product share in market, & that is our top priority. We work on three principals which are Trust, Honesty & Loyalty & we are committed to it & to our customers.

Vision

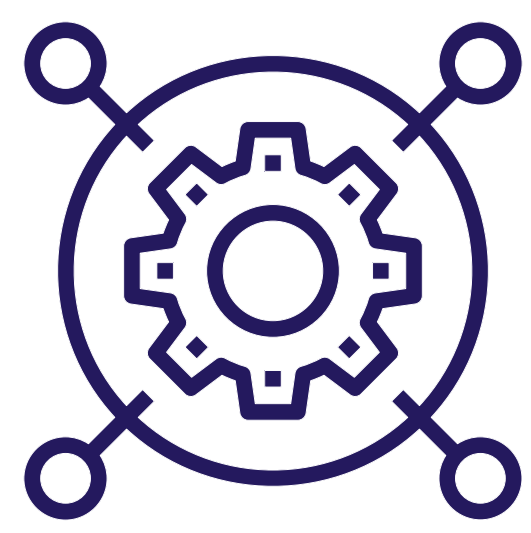
SOVEREIGN PUMPS will always strive to be the number ONE supplier of pumps, panel and spares in the markets we serve. As part of our Quality Assurance system, we are continually looking for ways to improve not only our product line, but also the way we interact with and serve our customers at every level. We will always look at expanding into new geographical areas in order to provide technology that will help our customers achieve their business goals.

Mission

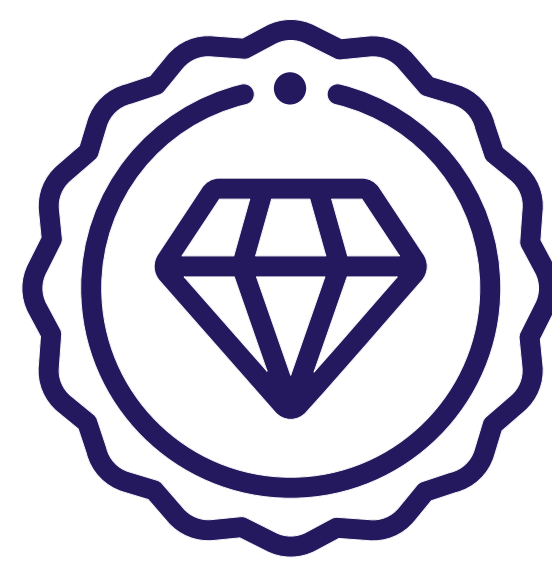
SOVEREIGN PUMPS contributes to quality, delivery and cost conscious through continuous improvements along with customer feedback. And also, importantly the way how we deal with our personal through constant interaction. And also, by increasing the present distribution network world wide by appointing direct country wide channel partners in the entire world and in the domestic market, also to be known as trustworthy manufacturer in pump industry.

Why Choose Sovereign Pumps?

We are team of self made experts with an exceptional 50 years experience. We believe that right product & it's supporting partners, together help the business grow. With SPS positive approach & decades experience + expertise, we are confident enough to back you up. We are always upgrading & responding to the needs of the business. We redefine your business in every aspect. Here is our multi-pronged approach which has helped us serve our customers effectively



Personalised
methodology



Exceptional
Quality



Complete
Transparency



24/7 customer
support

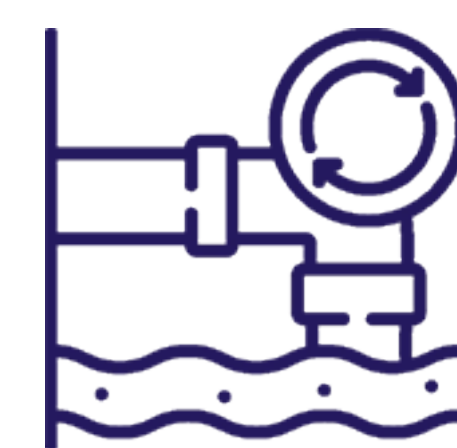
Industries We Serve



Infrastructure



Municipal



Waste Water



Chemical



ETP - STP



Mining Industry



Cement



Marine



Hydro



Thermal



Nuclear Power Plants



Pharmaceuticals

Reasons to choose sovereign pumps

Process Controlled

At Sovereign pumps we are committed with our process of manufacturing pumps. We make sure all the process are thoroughly followed by all the departments and after all the check the raw material is taken into production. We make sure that we adopt Zero waste policy and achieve maximum from our process line of production.

Quality Products

Sovereign pumps is committed to market to provide quality products at reasonable market price. Quality is foremost important factors for any production and operation cycle which in turns benefits the organization with maximum product sales. We have adopted ISO9001:2015 quality standards for our product and service.

Skilled Manufacturing

Skilled manufacturing is backbone of any manufacturing and process-controlled manufacturing organization. Skilled labour are assets to organization which will give gains to any organization in long run. Skill manufacturing can obtain complex jobs precision jobs with perfection which generates revenue and technical knowledge to any business.

Timely Dispatch

Timely dispatch to customers attains confidence on manufacturing process and gains trust on our commitment values to end customers. We at sovereign are committed to supply products at right time and at right cost and through right logistics.

After sales Services

Sovereign is committed to its each customer for after sales services. After sales services is one of the main pillars in manufacturing and we are committed to provide complete support to our customer if and when required at any sites of India. We have our services presence in pan India and we are committed to our customer for timely service at right cost with genuine products.



**Process
Controlled**



**Quality
Products**



**Skilled
Manufacturing**



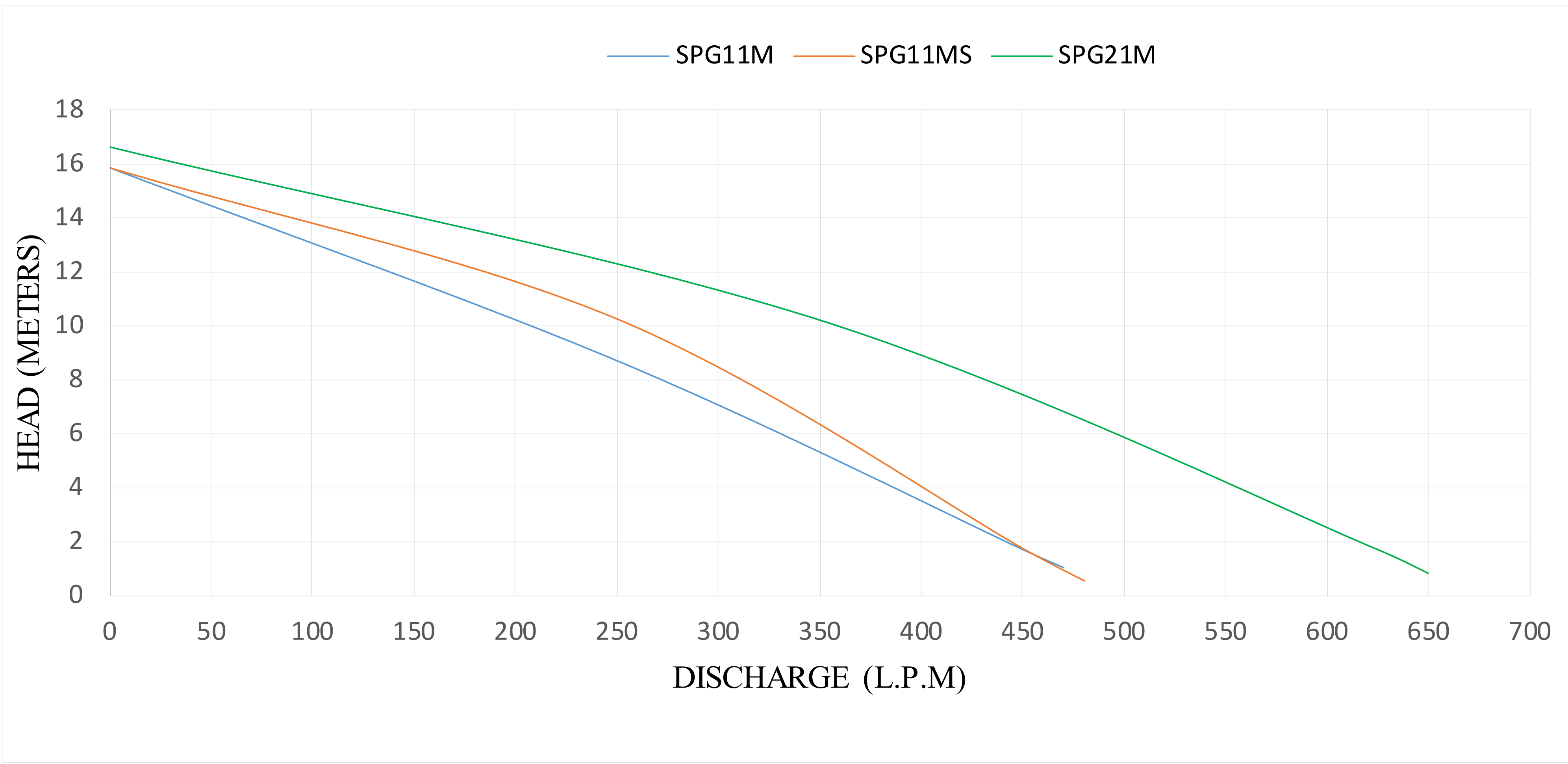
**Timely
Dispatch**



**After Sales
Services**

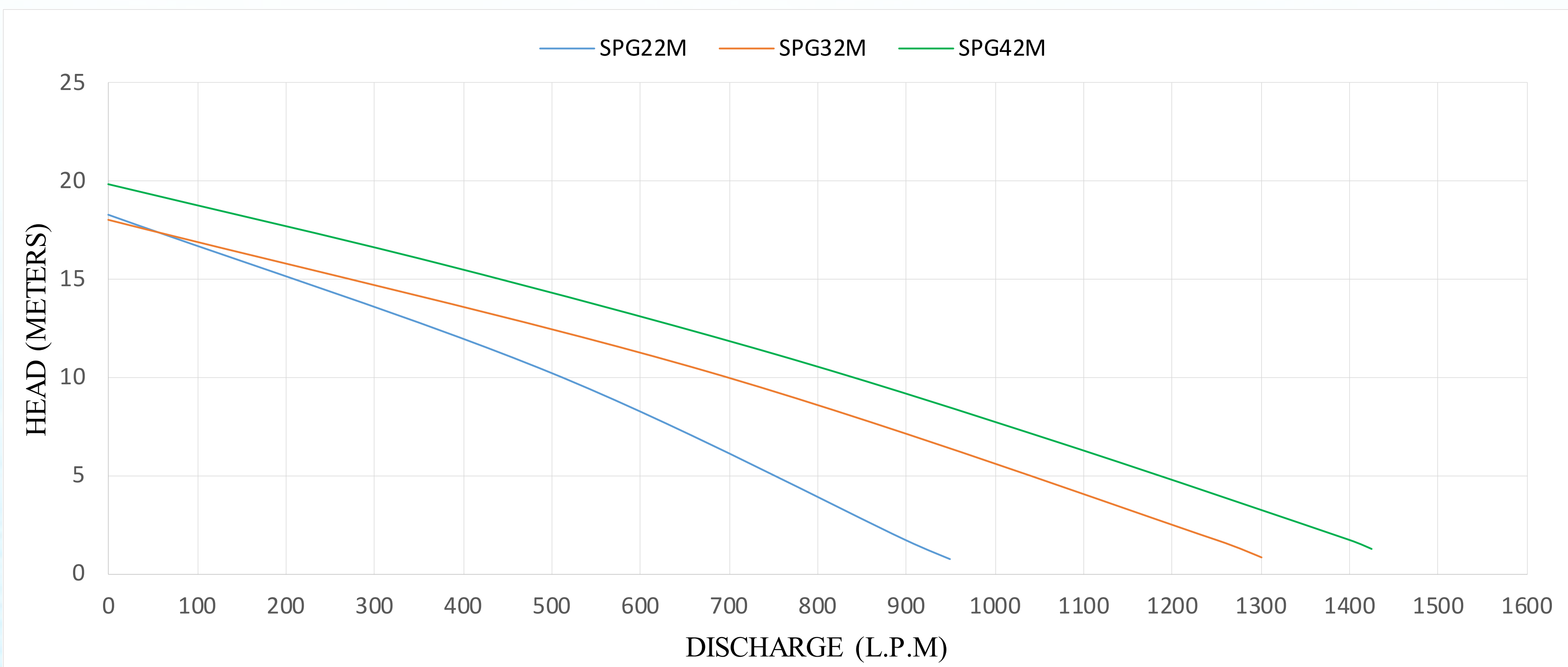
Submersible Electrical Dewatering Pump

1.5 to 2 HP



Model	HP	KW	PH	Volt (v)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPG11M	1.5	1.12	3	415	2.4	2850	6	382.5	160	2"/50	16
SPG11MS	1.5	1.12	1	230	10	2850	6	407.5	160	2"/50	18
SPG21M	2	1.5	3	415	3.9	2850	6	412.5	160	2"/50	18

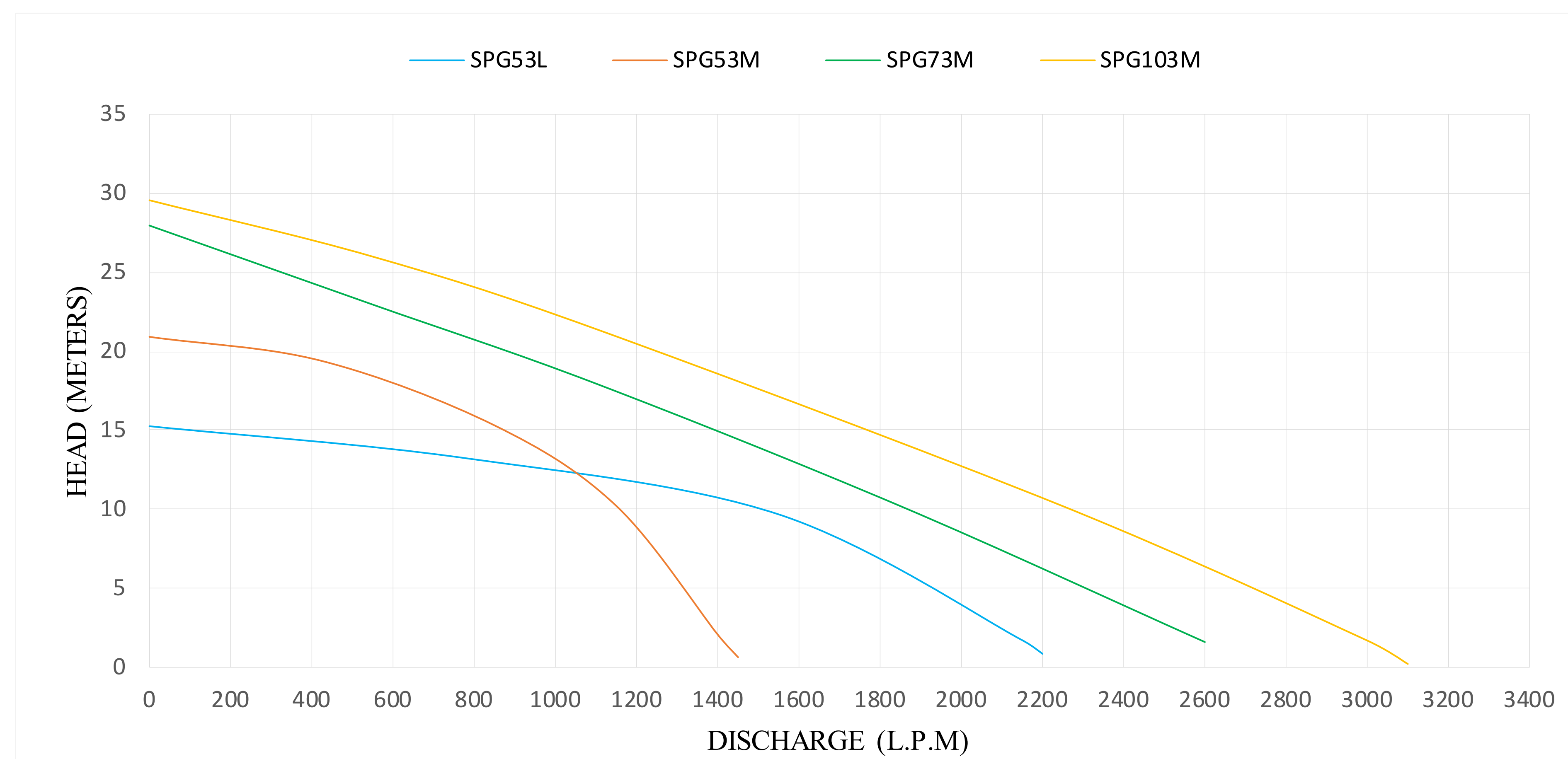
2 to 4 HP



Model	HP	KW	PH	Volt (v)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPG22M	2	1.5	3	415	3.9	2850	6	529.5	189	3"/75	29
SPG22MS	2	1.5	1	230	13	2850	6	564.5	189	3"/75	32
SPG32M	3	2.2	3	415	5.5	2850	6	574.5	189	3"/75	31
SPG32MS	3	2.2	1	230	19	2850	6	614.5	189	3"/75	38
SPG42M	4	3	3	415	8	2850	6	609.5	189	3"/75	37

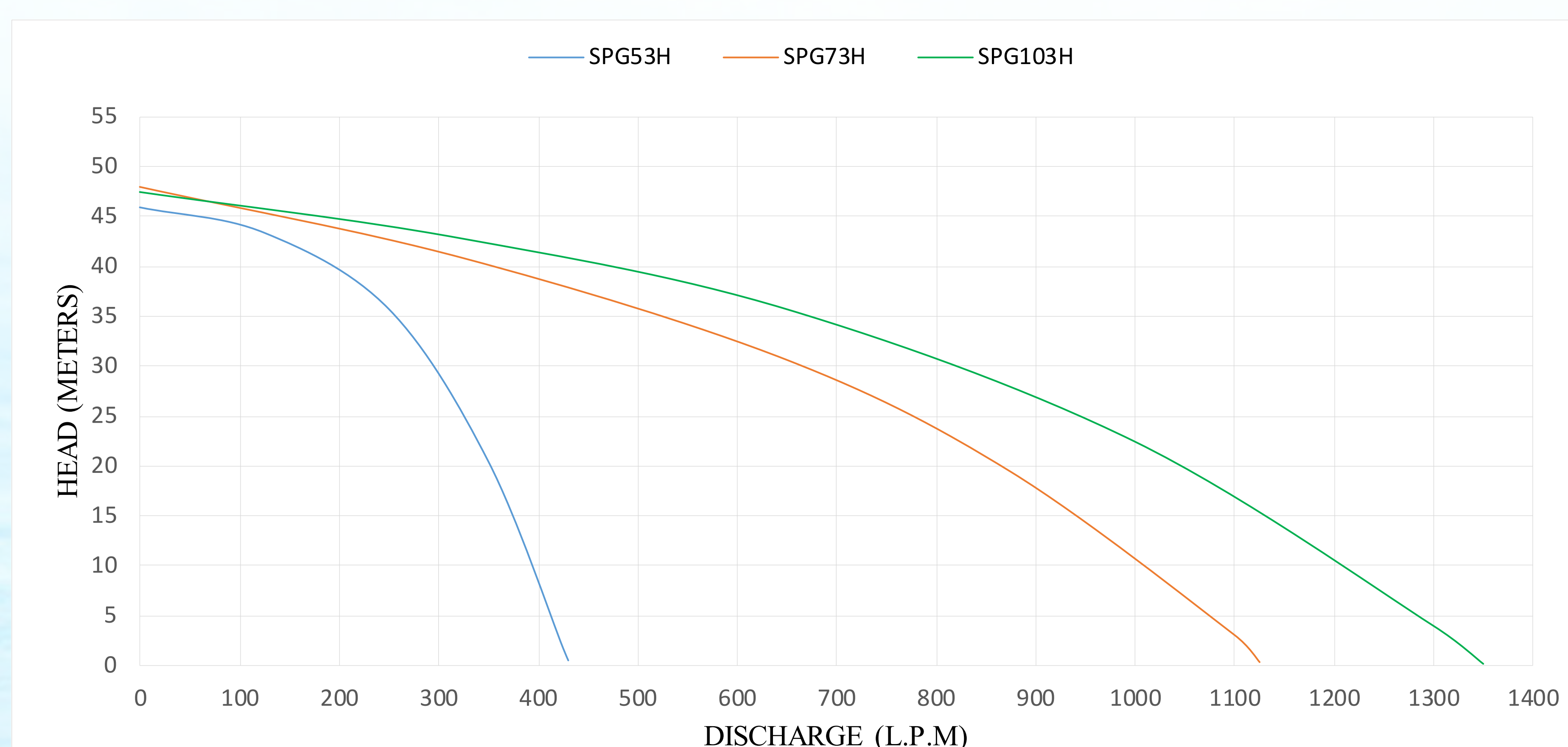
Submersible Electrical Dewatering Pump

5 to 10 HP (Medium Head)



Model	HP	KW	PH	Volt (V)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPG53L	5	3.7	3	415	8	2850	10	600	276	4"/100	48
SPG53M	5	3.7	3	415	8	2850	6	586	276	4"/100	48
SPG73M	7.5	5.6	3	415	12.5	2850	10	674	276	4"/100	55
SPG103M	10	7.5	3	415	16	2850	10	699	276	4"/100	63

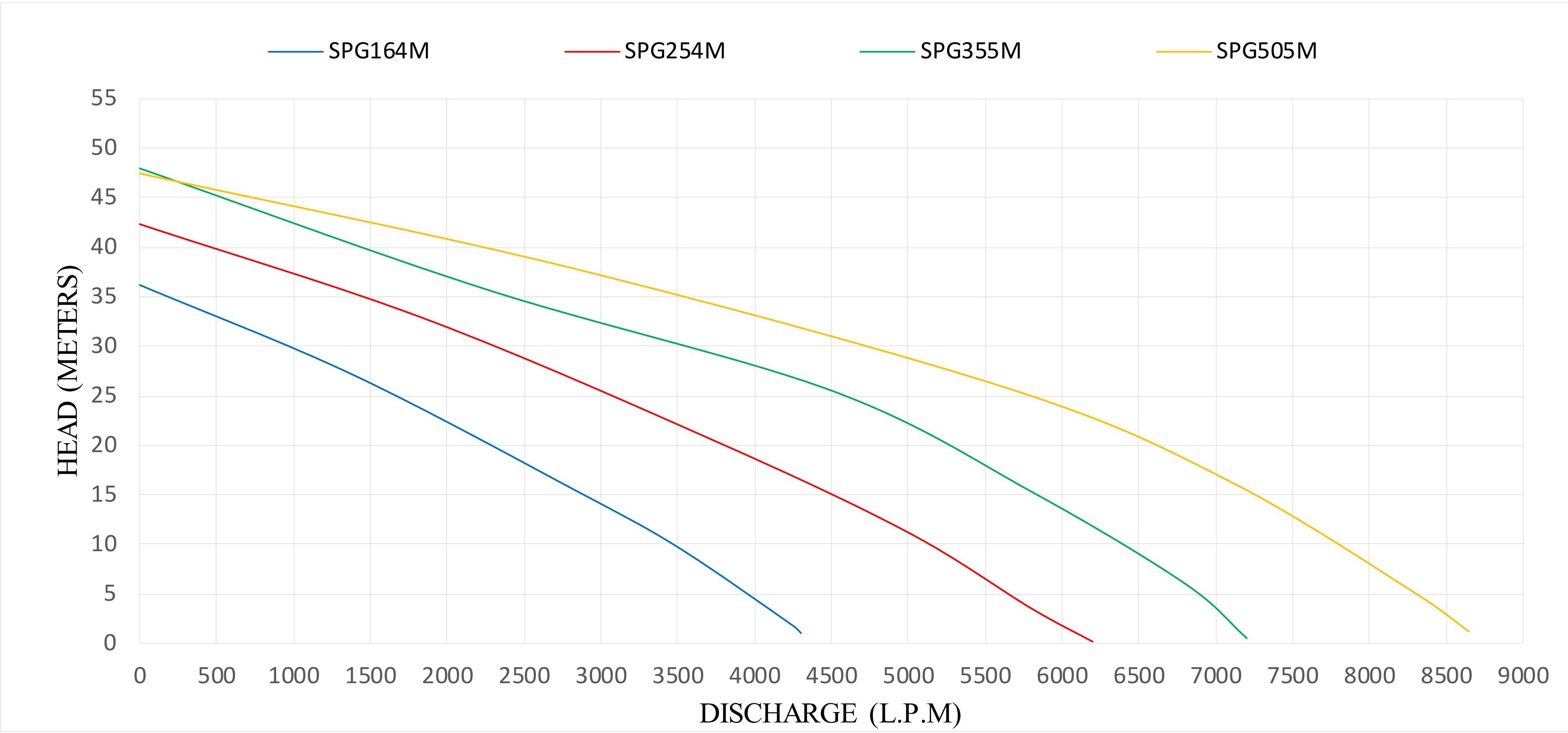
5 to 10 (High Head)



Model	HP	KW	PH	Volt (V)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPG53H	5	3.7	3	415	8	2850	6	600	276	3"/75	53
SPG73H	7.5	5.6	3	415	12.5	2850	6	653	276	3"/75	60
SPG103H	10	7.5	3	415	16	2850	8	687	276	3"/75	66

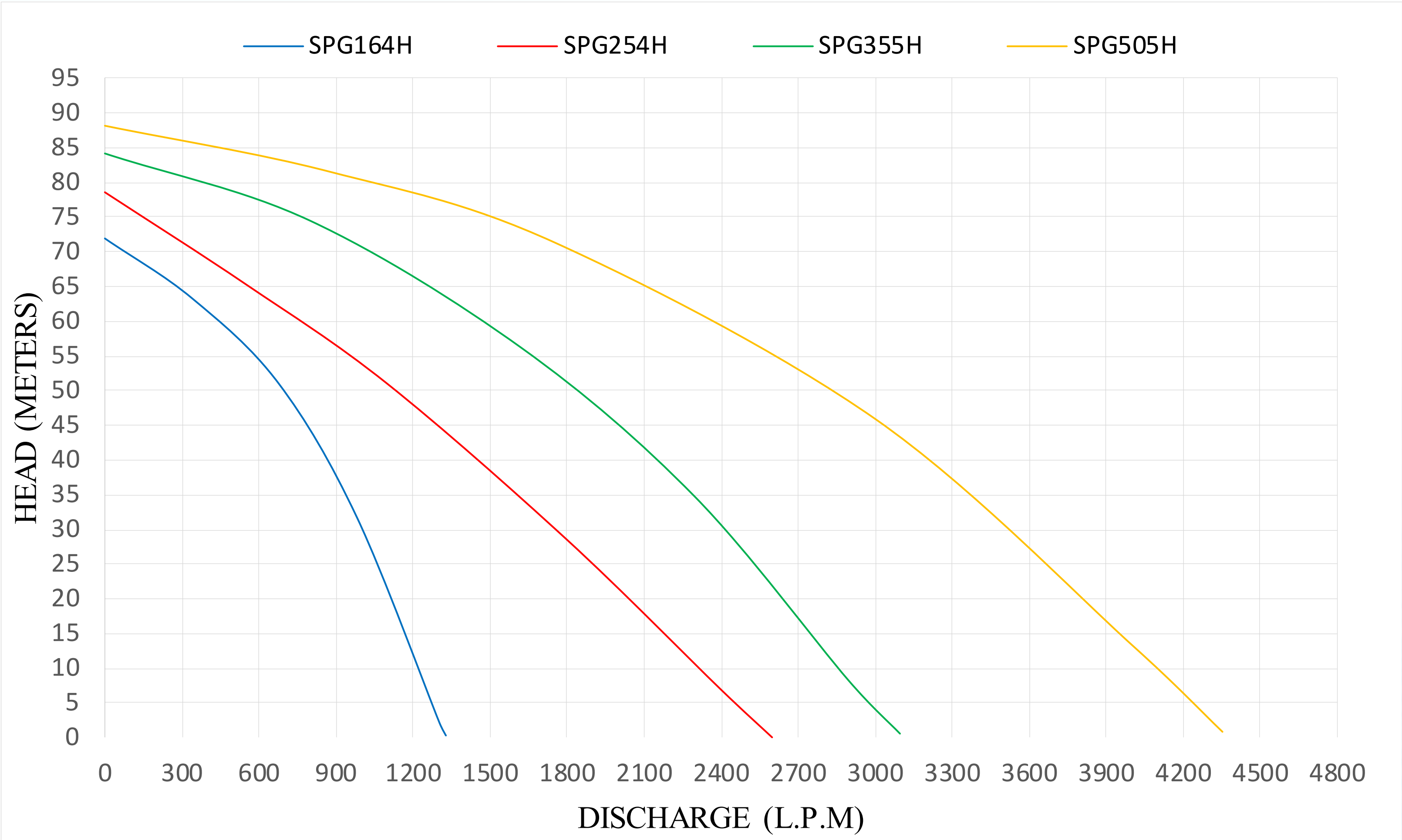
Submersible Electrical Dewatering Pump

16 to 50 HP (Medium Head)



Model	HP	KW	PH	Volt (v)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPG164M	16	11.9	3	415	24	2850	10	820	361	6"/150	135
SPG254M	25	18.6	3	415	39	2850	10	898	402	6"/150	190
SPG355M	35	26	3	415	51	2850	10	1006	402	6"/150 or 8"/200	225
SPG505M	50	37.2	3	415	65	2850	10	1040	402	6"/150 or 8"/200	275

16 to 50 HP (High Head)



Model	HP	KW	PH	Volt (v)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPG164H	16	11.9	3	415	24	2850	10	800	361	4"/100	140
SPG254H	25	18.6	3	415	39	2850	10	878	402	4"/100	195
SPG355H	35	26	3	415	51	2850	10	1006	402	6"/150	235
SPG505H	50	37.2	3	415	65	2850	12	1037	402	6"/150	375

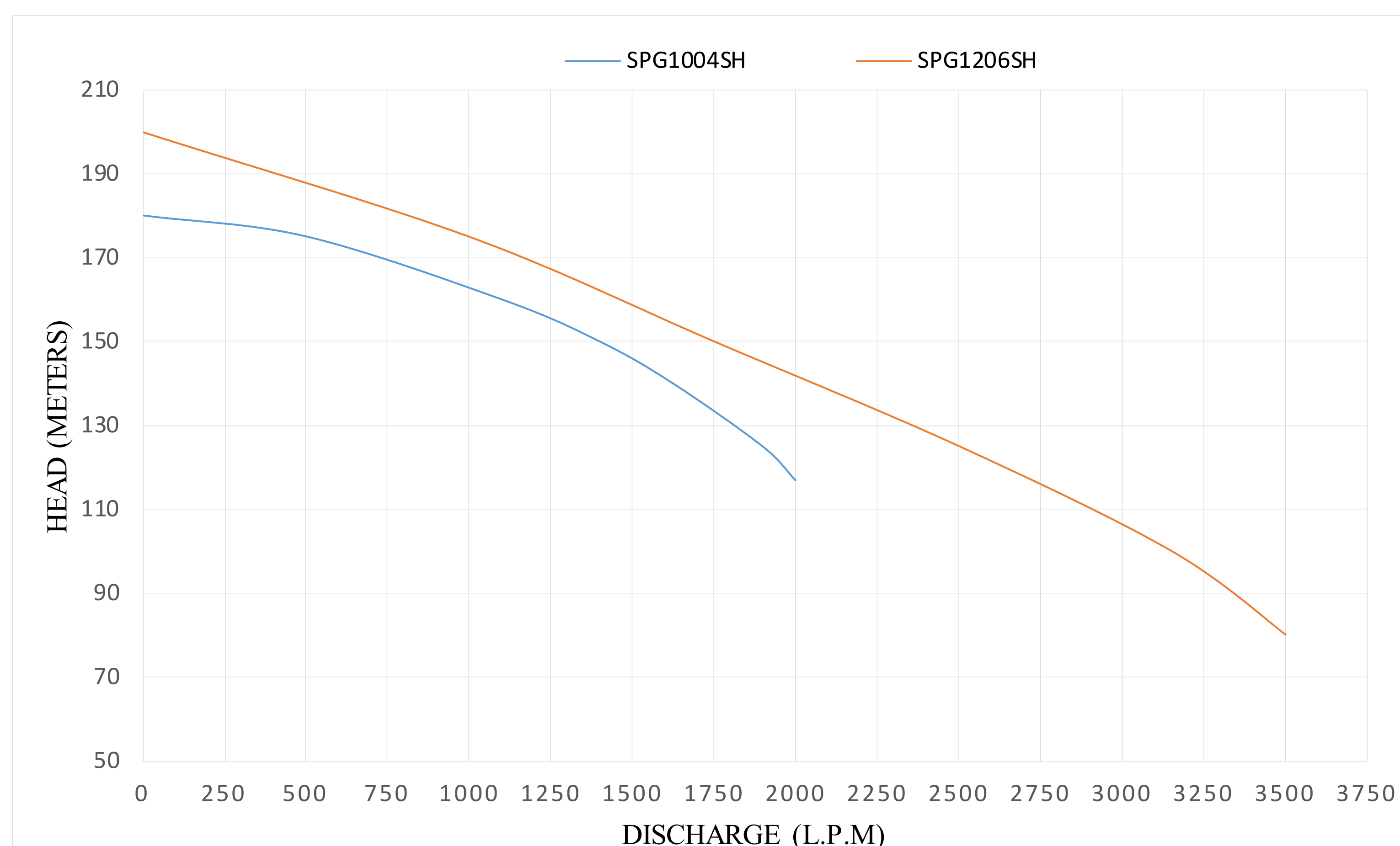


**SOVEREIGN
PUMPS**

Innovative pumps for the future...

Submersible Electrical Dewatering Pump

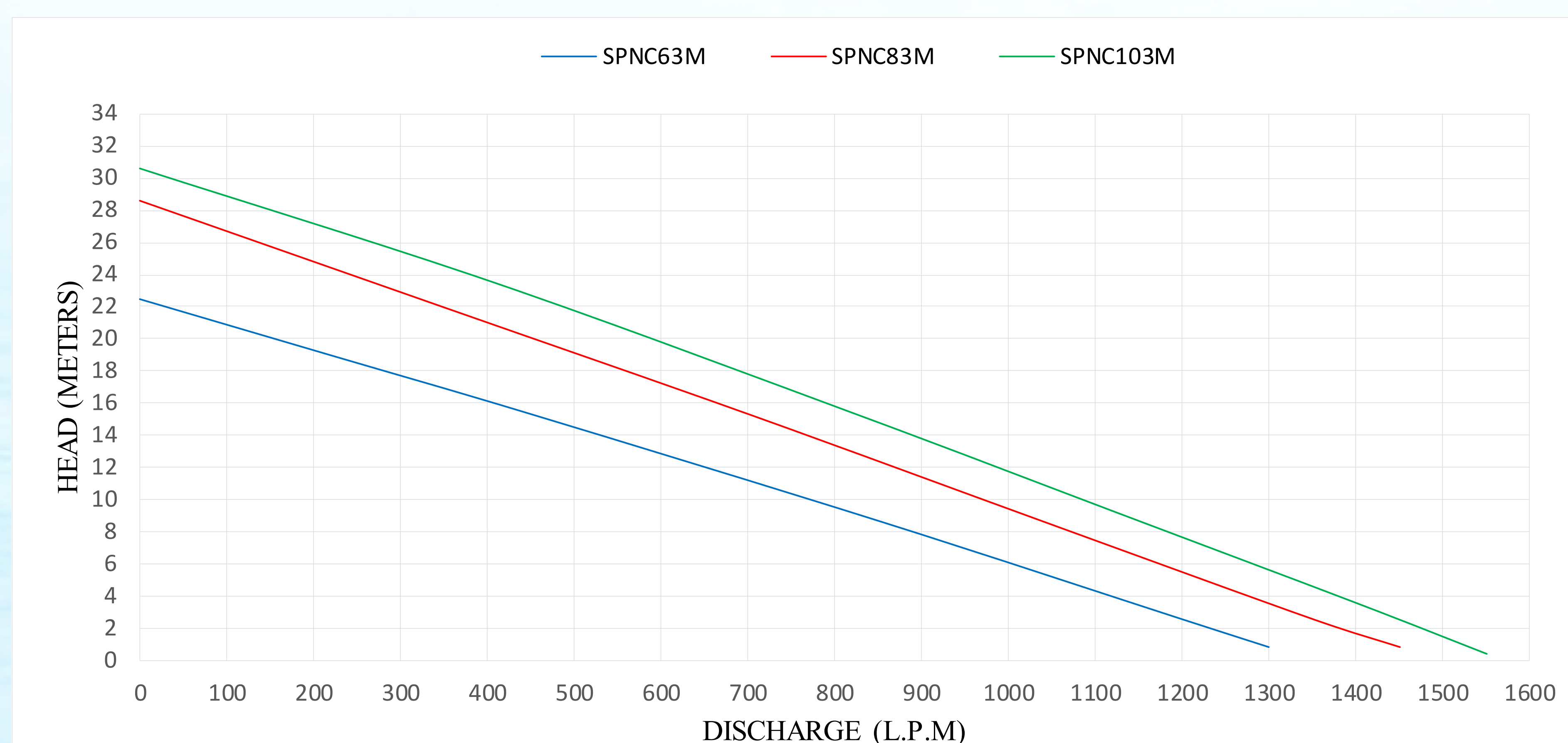
90 to 120 HP (Super Head)



Model	HP	KW	PH	Volt (v)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPG1004SH	100	75	3	415	122	2850	2	4"/100	1500
SPG1206SH	120	90	3	415	172	2850	2	6"/150	1500

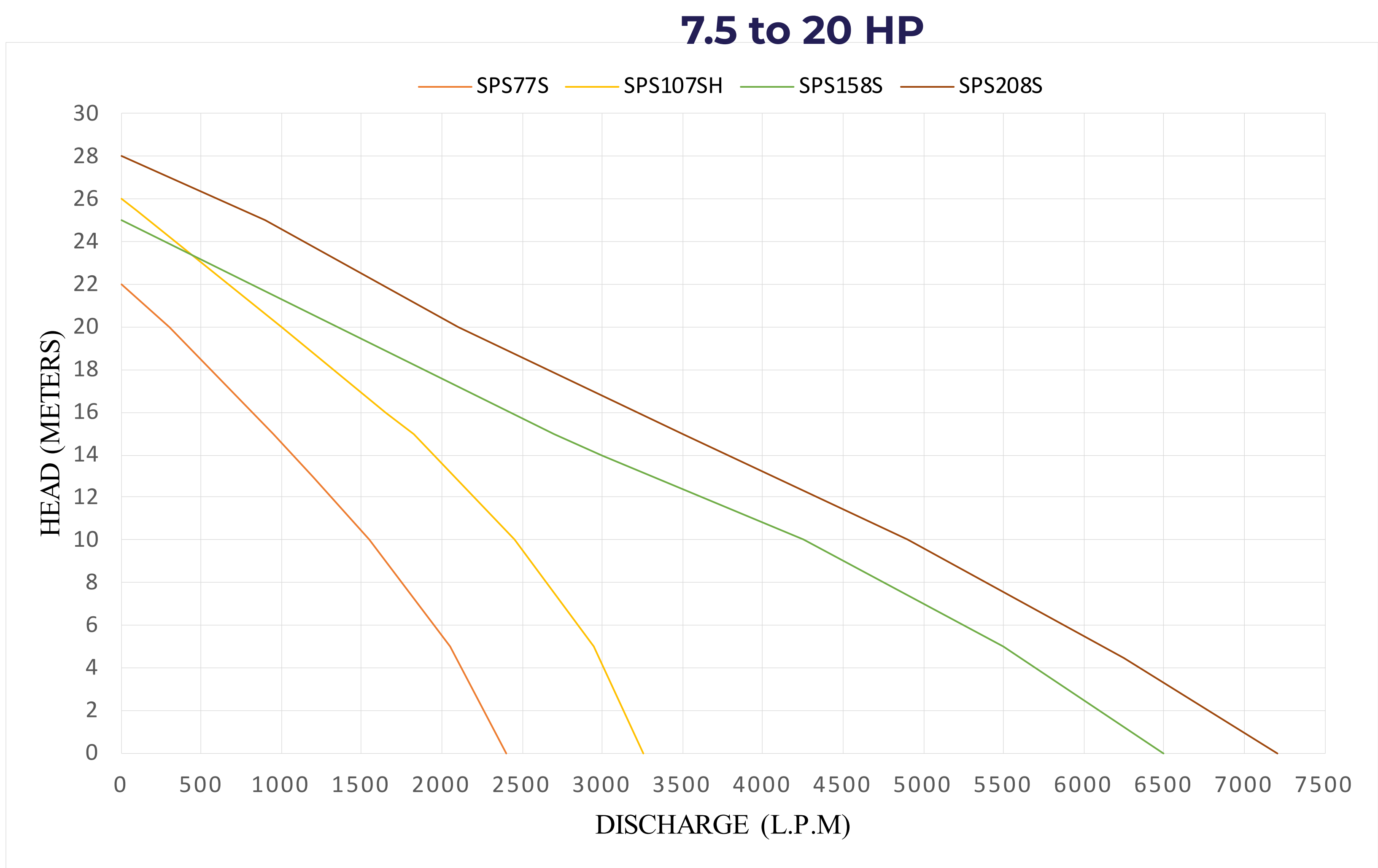
Submersible Electrical Non-Clog Pump

6 HP to 10 HP



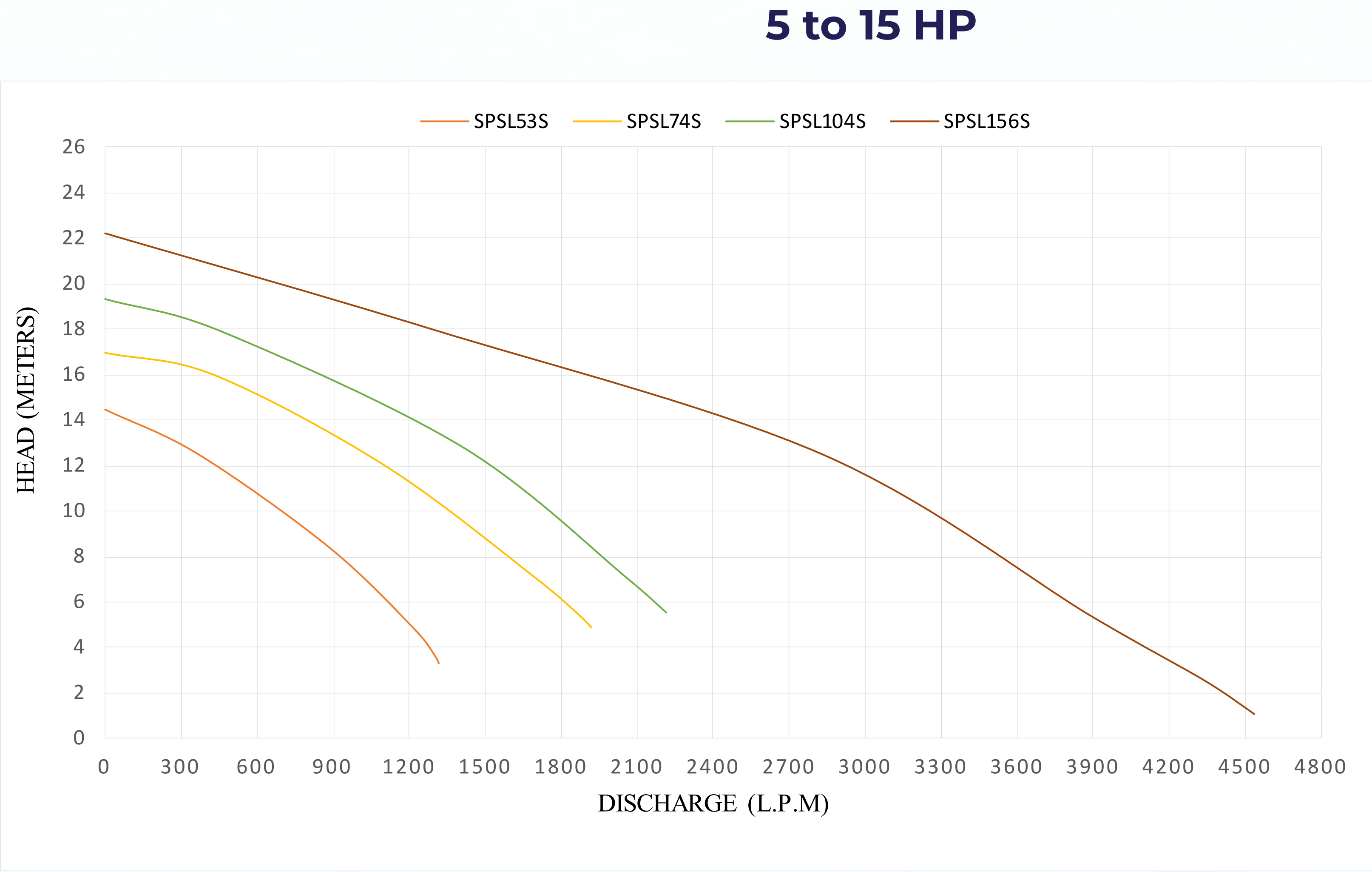
Model	HP	KW	PH	Volt (v)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPNC63M	6	4.5	3	415	11	2850	60	740.5	370	4"/100	60
SPNC83M	8	6	3	415	14	2850	60	770.5	370	4"/100	65
SPNC103M	10	7.5	3	415	16	2850	60	780.5	370	4"/100	70

Submersible Electrical Sewage Pump



Model	HP	KW	PH	Volt (V)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPS77S	7.5	5.6	3	415	12.5	1450	75	840	715	4"/100	170
SPS107SH	10	7.5	3	415	16	1450	75	840	715	4"/100	185
SPS158S	15	11.2	3	415	22	1450	100	1030	890	6"/150	300
SPS208S	20	15	3	415	30.6	1450	100	1030	890	6"/150	310

Submersible Electrical Slurry Pump

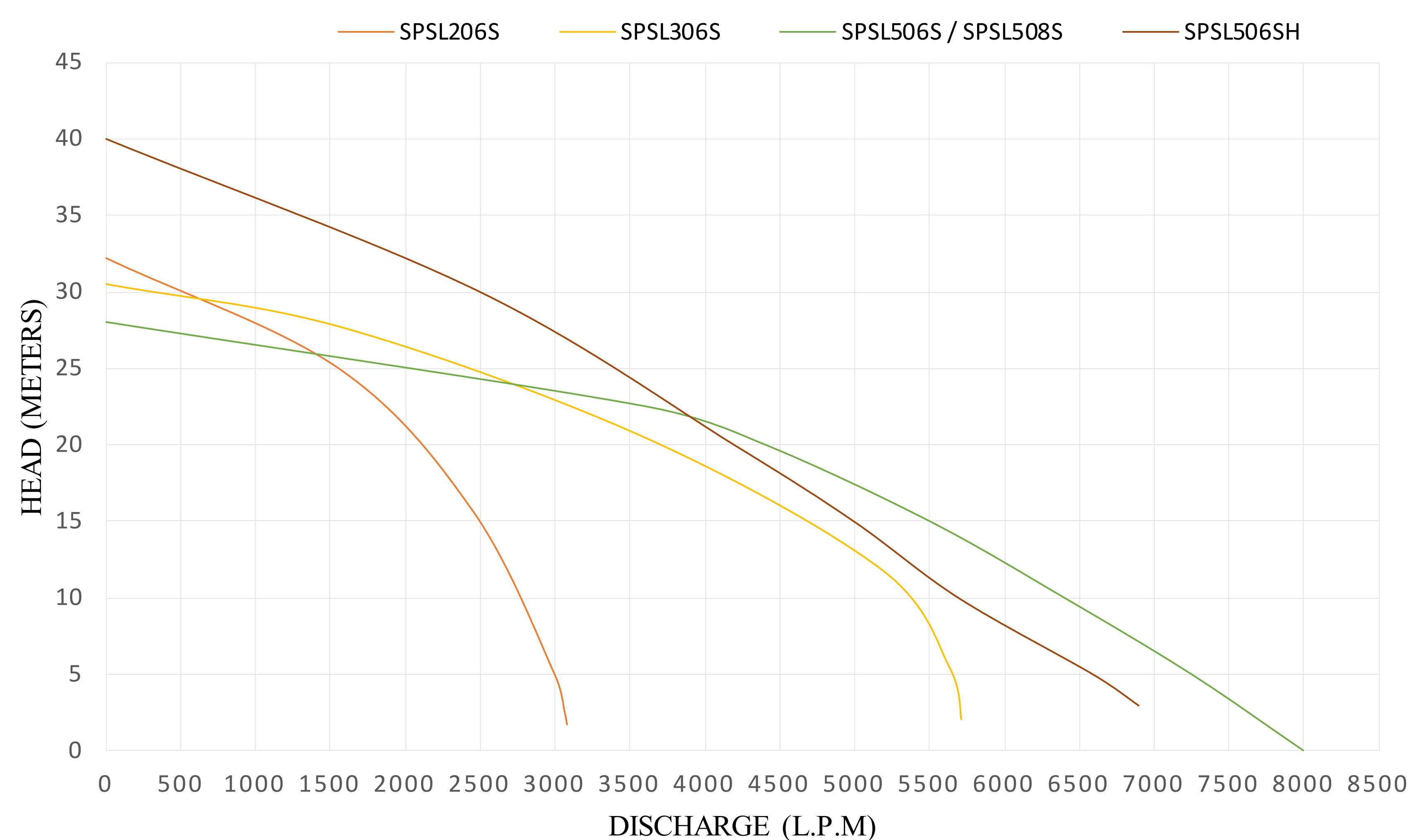


Model	HP	KW	PH	Volt (V)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPSL53S	5	3.7	3	415	8	1450	22	820	420	3"/75	110
SPSL74S	7.5	5.6	3	415	12.5	1450	22	820	420	4"/100	120
SPSL104S	10	7.5	3	415	16	1450	22	840	420	4"/100	130
SPSL156S	15	11.2	3	415	22.5	1450	22	1100	570	6"/150	240

Submersible Electrical Slurry Pump



20 to 50 HP



Model	HP	KW	PH	Volt (V)	Rated Current (A)	Speed (Rpm)	Solid Handling in mm	Pump Height in mm	Pump Diameter in mm	Outlet Size Inch/mm	Weight in Kg (Without Cable)
SPSL206S	20	15	3	415	32	1450	38	1100	565	6"/150	265
SPSL306S	30	22.4	3	415	45	1450	38	1325	578	6"/150	410
SPSL506SH	50	37.2	3	415	65	960	40	1900	1005	6"/150	975
SPSL506S	50	37.2	3	415	65	960	60	1900	960	6"/150	990
SPSL508S	50	37.2	3	415	65	960	60	1900	960	8"/200	990

Submersible Electrical Stainless Steel Pump

Sovereign dewatering and non-clog pumps are available in stainless steel material for abrasive and corrosive applications. These pumps are capable of handling Highly acidic fluid (low PH Value Fluid).

Stainless steel pumps are capable of handling contaminated fluids typically at most land lifts, nuclear power plants, paper pulp industries and mines.

Stainless steel pumps are an economical alternative to line shaft/vertical thermoplastic/exotic metal pumps. Sovereign pumps will deliver from 75 LPM to 10,000 LPM with discharge and head start from 5 meters to 100 meters.

The current manufacturing range is from 1.5 HP to 100 HP.



Submersible Electrical Open Well Pump

Features :

- ✓ Water Cooled, rewindable induction motor
- ✓ Cast Iron impeller for long life
- ✓ Low noise level & low vibration level
- ✓ Suitable for high head applications
- ✓ Stainless steel motor body
- ✓ No need of priming or foot valve

Applications

- ✓ Domestic water supply,
- ✓ Water fountains & rural water supply

SPW Series (0.5 to 10HP)



Operating Parameters

- ✓ Power (HP): 0.5 to 10 HP
- ✓ Head Range: Max 180 feet
- ✓ Discharge: Max 1000 LPM
- ✓ Pipe Size: 25mm, 40mm, 50mm, 80mm, 100mm
- ✓ Operating Voltage: 230 Volt / 415 Volt

Control Panel for Pump

The following protections are available in sovereign Control panel.

- ✓ Over Current
- ✓ Under Current
- ✓ Overload
- ✓ Short Circuit
- ✓ No Load
- ✓ Dry running
- ✓ Phase Failure
- ✓ Phase reversal (Optional)
- ✓ PT sensor (Optional)
- ✓ Level sensors (Optional)
- ✓ Local / remote operation & customized features against requirement



**Analog control
panel – IP 54**



**Analog control panel
– IP 65 (Double Door)**



**Digital control
panel – IP 54**

Flood Control Engine Driven Dewatering Pumps

Series

SPS TDP Dewatering pumps are designed and manufacture to be reliable, mobile and to produce tremendous performance. Mainly used in general purpose Industry for construction, utilities and Civil Engineering, SPS TDP server is your best bet for safer and consistent performance. Simply said, SPS TDP pumps are easy to use, easier to maintain.



Technical Specifications:

	4" dewatering pump	6" dewatering pump	8" dewatering pump
Pump Model	SPS TDP4"	SPS TDP6"	SPS TDP8"
Delivery(mm/inch)	100 mm / 4 Inch	150mm / 6 Inch	200mm / 8 Inch
Suction (mm/inch)	150 mm/ 6 Inch	150mm / 6 Inch	200mm / 8 Inch
Impeller Type	Open	Open	Open
Max. Discharge Flow (m3/hr)	234	500	800
Max. Head (M)	52	48	55
Impeller, Wear Plate	SS316L	SS316L	SS316L
Pump Shaft	AISI 431	AISI 431	AISI 431
Pump Casing, Casing Cover	SGI 500/7	SGI 500/7	SGI 500/7
Vacuum Pump Displacement (cfm)	60 cfm / 800 RPM	60 cfm / 800 RPM	60 cfm / 800 RPM
Mounting	2 Wheel Trolley	2 Wheel Trolley	4 Wheel Trolley
Engine	Volvo/ Eicher	Volvo/ Eicher	Volvo/ Eicher



Technical Specifications:

	10" dewatering pump	12" dewatering pump	16" dewatering pump	20" dewatering pump
Pump Model	SPS TDP 10"	SPS TDP 12"	SPS TDP 16"	SPS TDP 20"
Delivery(mm/inch)	250mm/ 10 Inch	300mm/ 12 Inch	400mm/ 16 Inch	500mm/ 20 Inch
Suction (mm/inch)	250mm/ 10 Inch	300mm/ 12 Inch	450mm/ 18 Inch	600mm/ 24 Inch
Impeller Type	Closed	Closed	Closed	Closed
Max. Discharge Flow (m3/hr)	850	1400	2200	3500
Max. Head (M)	55	62	44	60
Impeller, Wear Plate	SS316L	SS316L	SS316L	HICR 27%
Pump Shaft	AISI 431	AISI 431	AISI 431	AISI 431
Pump Casing, Casing Cover	SGI 500/7	SGI 500/7	SGI 500/7	SGI 500/7
Vacuum Pump Displacement (cfm)	60 cfm/ 800 RPM 120 cfm / 800 RPM	120 cfm/ 800rpm	120 cfm / 800rpm	120 cfm / 800rpm
Mounting	4 Wheel Trolley	4/6 Wheel Trolley	4/6 Wheel Trolley	4/6 Wheel Trolley
Engine	Volve/ Eicher	Volve/ Eicher	Volve/ Eicher	Volve/ Eicher

Diesel driven Dewatering Pump are available in Low & High Head series

Vacuum Assisted Diaphragm Pump

SMART PRIME

(60 Cfm @ 800 RPM from Single Diaphragm Pumps & 120 Cfm@800 RPM- Double Diaphragm Pumps)

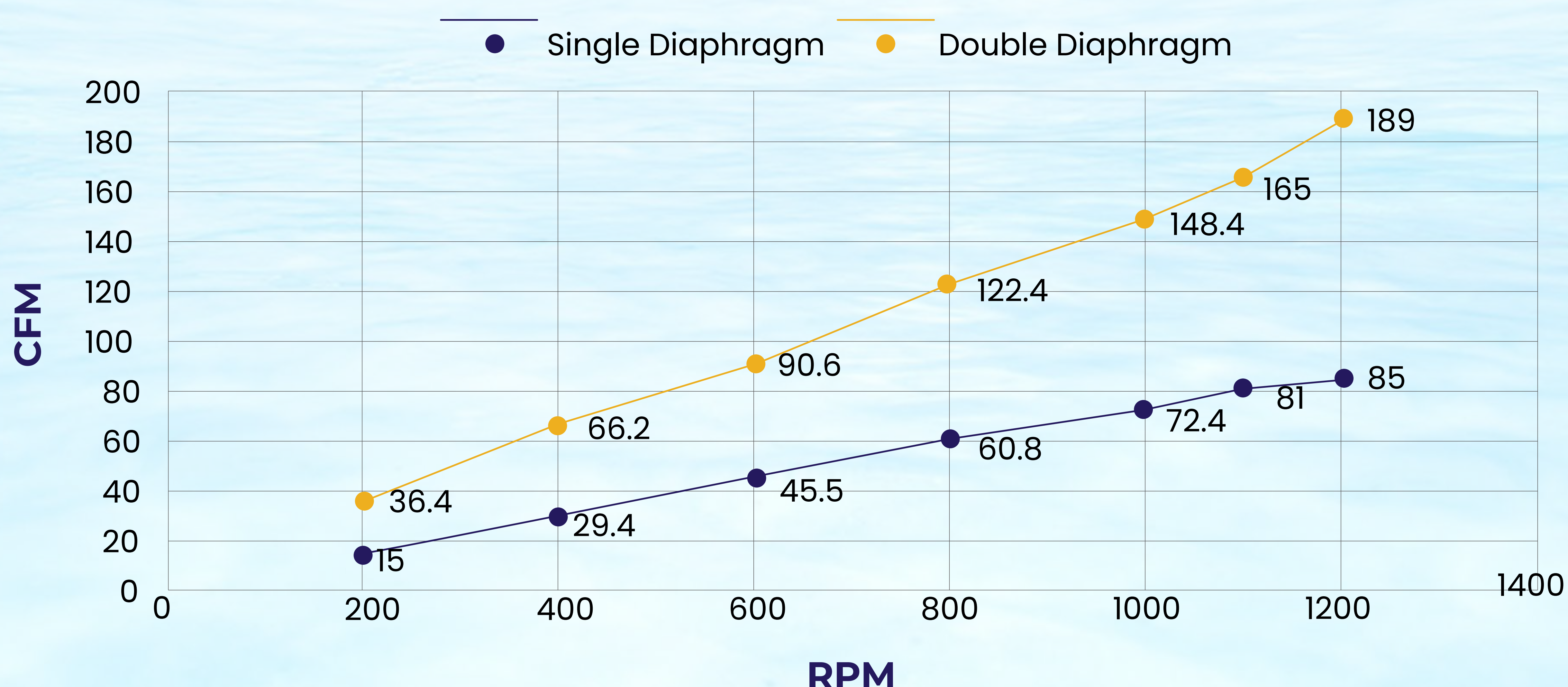
The priming system will create a vacuum in the pump and in the suction hose allowing the water to be drawn upwards towards the pump. After a short priming time the water will reach the main centrifugal pump and also enter the priming chamber of the priming tank. The float in the priming chamber will now raise when it reached approximately halfway up the chamber it will fits close the small valve followed by closing of the large valve. The main centrifugal pump is now also pumping water through the system.

The status of the system is now as follows

1. Small valve is closed
2. Large valve is closed
3. Main float is highest position
4. Non return valve on the pumps discharge is fully open
5. Vacuum pump remains operating [Consumes very little power]
6. System is now full of water
7. Centrifugal pump is pumping water

Should some further air accumulates in the priming chamber than small valve will open to evacuate this air and then seal the chamber again. Should there be a sudden influx of lot of air , then large valve will also open for faster air evacuation. This priming system is totally clean system in that no oils are evacuated or deposited into environment. It is also important to note that none of the pumped fluids enter the vacuum pump which although if this happen in quantities, it will not hurt the diaphragm pump, It will discharge such fluids into environment Creating Pollution. This could typically happen if some dirt enters the valve system of any vacuum pump (Both in our or our competitors system) hence, the valve will leak and eventually will start to draw the pumped fluid through the vacuum pump spilling out into the environment. The Poseidon Smart prime system we have provided for this eventually and we are only company in the market that has an additional safety valve build into the tank. Should the water level in the chamber reach a too high a level, than the safety valve which has a secondary stainless steel float, will let some air into chamber dropping down the fluid level in the chamber. This will not affect the operation of the centrifugal pump but it will keep it safe and operating properly. With this system, it impossible for any fluid to enter into valve system and or into priming pump

Single and Twin Diaphragm RPF vs CFM





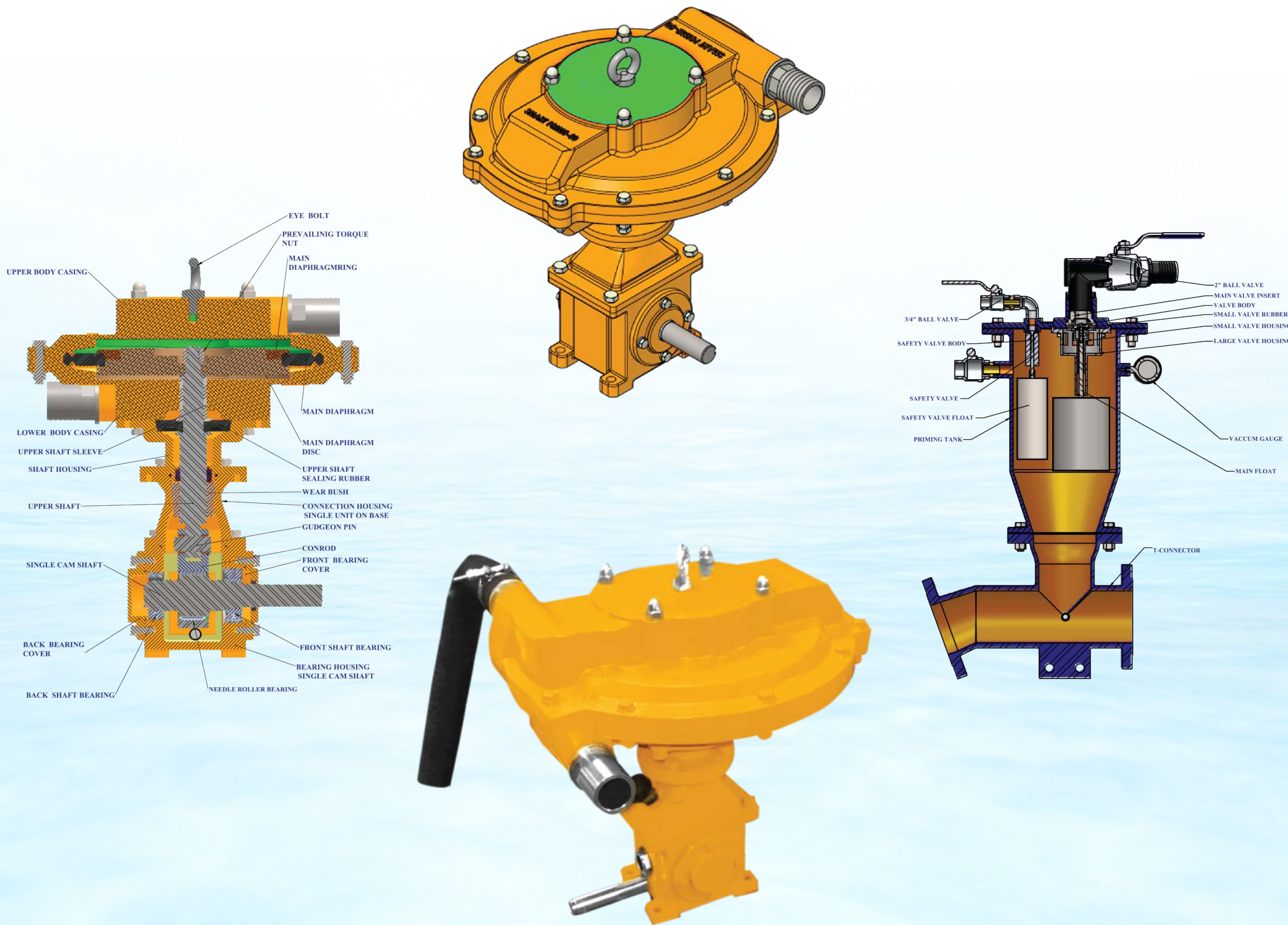
SOVEREIGN
PUMPS

Innovative pumps for the future...

SMART PRIME

Priming time 60 CFM												
Pipe internal Diameter mm	Area m2	60 CFM Volume pumps M3/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 m2	120 CFM Volume pumps M3/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



Key distinctive advantages **of using our TDP series pumps.**

- » All cast parts are SG 500/7.
- » Impellers are SS 316 L.
- » It is SAE couplings between engine and pumps.
- » Angular bearing is used in engine bell housing to take care of 3 degree drifting.
- » All our bearing housing are grease filled to ensure that 25000 hrs. bearing life.
- » All shafts are SS 431.
- » All mechanical seals are oil bathed.
- » Quickest priming time
- » All our priming tanks have safety valves to care for flood suction to ensure that diaphragm pump doesn't get water.
- » It is a vacuum assisted priming system and SPS TDP Series pumps stroke length is as it helps quick priming.
- » Priming internals parts are stainless steel.
- » All diaphragm pump rubbers are made of neoprene to ensure long life.
(We offer 1000hrs for all our rubbers.)

Accessories & Spares



Vortex Impeller



Wearing Ring



Base For Pump



Agitator



Channel Impeller



Upper vBracket



Upper Bracket



Outer Body



Rotor



Mechanical Seal



Wear Plate/Pressure Plate



Inner Body



Oil Bag



Impeller



Cable Assembly Kit



**SOVEREIGN
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Our Products Range





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