



Quality, Reliability, Life

Submersible Dewatering Pump



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Applications

- Civil Engineering
- Mines, quarries, coal ore and slurries
- Sewage Treatment plants
- General pumping purposes

Performance Range

- Flow : Up to 156 m³/ hr
- Head : up to 56m
- Speed : 2900 RPM

Application Limits

- Water temperature : Up to 45°C
- Maximum immersion depth : 50m
- PH : 6.5 to 8.5

Motor Details

- Power Supply ; Three Phase 380-420v, 50Hz
- Power : 1.5 kw to 15 kw
- Insulation Class : F
- Protection : IP 68
- Cable length 8m

Installation and use

- Compact design, high performance and exceptional durability for handling abrasive liquid, widely used in general construction and civil engineering.
- The body of motor and pump is made of rigid cast iron or stainless steel for long-lasting durability.
- Greatly increased maximum submersion depth due to mechanical seal resistance to high pressure (0.5Mpa)
- Semi-open impeller made of high SS304 match with wear plate (SS304) achieves superior durability.
- Effective motor cooling due to discharge channel cast iron as part of the motor housing. Space economy by a top outlet.
- Hermetically sealed motor equip build-in thermal protection. The protector in the motor can automatically cut off the power when it overheats or over current.

Selection chart

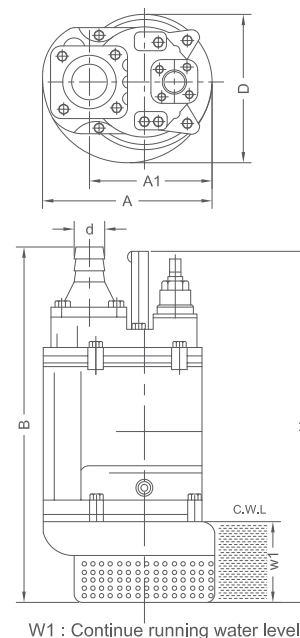
Model	Power		Voltage (50Hz)	Rated speed (RPM)	Outlet (Inch)	Max. head (Mtr)	Max. Flow (m3/h)	Impeller Passage (mm)	Net weight (Kg)
	kW	HP							
PDP1.5-2	1.5	2.0	380-420v	2900	2	22	30	8.5	36
PDP2.2-2	2.2	3.0			2	26	30		39
PDP4.0-2	4.0	5.5			2	34	30		63
PDP1.5-3	1.5	2.0			3	15	40		36
PDP2.2-3	2.2	3.0			3	19	55		39
PDP4.0-3	4.0	5.5			3	29	55		63
PDP5.5-3	5.5	7.5			3	34	75		77
PDP4.0-4	4.0	5.5			4	18	90		63
PDP5.5-4	5.5	7.5			4	23	105		77
PDP7.5-4	7.5	10			4	40	84	11.5	106
PDP11-4	11	15			4	48.5	84	11.5	136
PDP15-4	15	20			4	56	84	11.5	144
PDP7.5-6	7.5	10			6	31	125	19.5	108
PDP11-6	11	15			6	32	147	19.5	139
PDP15-6	15	20			6	40	156	19.5	146

Submersible Dewatering Pump

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Pump Dimensions

Model	Dimensions in mm						
	d	A	A1	B	D	H	W1
PDP1.5-2	50	235	173	517	216	486	120
PDP2.2-2	50	235	173	517	216	486	120
PDP4.0-2	50	283	208	628	252	638	150
PDP1.5-3	80	235	173	517	216	486	120
PDP2.2-3	80	235	173	517	216	486	120
PDP4.0-3	80	283	208	628	525	638	150
PDP5.5-3	80	306	218	671	259	598	150
PDP4.0-4	100	283	208	642	252	638	150
PDP5.5-4	100	306	218	686	259	598	150
PDP7.5-4	100	330	240	764	314	676	190
PDP11-4	100	373	255	807	350	695	190
PDP15-4	100	373	255	842	350	755	190
PDP7.5-6	150	330	240	790	314	676	190
PDP11-6	150	373	255	807	350	695	190
PDP15-6	150	373	255	842	350	755	190



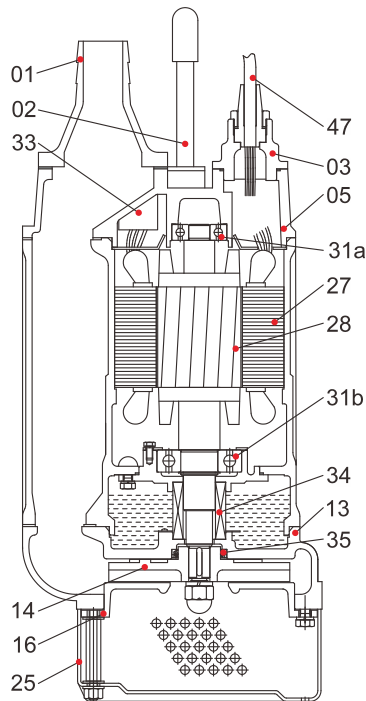
W1 : Continue running water level

Performance Chart

2900 RPM

Model	Power		Q	US GPM	0	44	88	132	176	220	264	308	352	396	440	484	550	647	687
	KW	HP		M ³ /H	0	10	20	30	40	50	60	70	80	90	100	110	125	147	156
				LPM	0	167	333	500	667	834	1000	1167	1334	1500	1667	1834	2084	2450	2601
PDP1.5-2	1.5	2	H Meters	22	17	12	6												
PDP2.2-2	2.2	3		26	24	18	6												
PDP4.0-2	4.0	5.5		34	30	24	15												
PDP1.5-3	1.5	2		15	14.5	12	8	3											
PDP2.2-3	2.2	3		19	18	16	13	9	3										
PDP4.0-3	4.0	5.5		29	27.5	24	20	14	6										
PDP5.5-3	5.5	7.5		34	32	30	27.5	24.5	21	17	12								
PDP4.0-4	4.0	5.5		18	17	16	15	14	12	10	8	4							
PDP5.5-4	5.5	7.5		23	21.5	20.5	19.5	18	17	15	13	10	7	3					
PDP7.5-4	7.5	10		40	38	36	33	30	26.5	22	16	6							
PDP11-4	11	15		48.5	46	42.5	39	34	29.5	24.5	19	12							
PDP15-4	15	20		56	55	53	51	48	45	42	37	28							
PDP7.5-6	7.5	10		31	30	29	27	25	23	21	19	16.5	14.5	12	9	5			
PDP11-6	11	15		32	31.5	31	30	29	28	26.5	25	23	21	18.5	16	13	9		
PDP15-6	15	20		40	39.5	39	38	37	36	35	34	33	31.5	30	28	25	20	18	

Sectional View

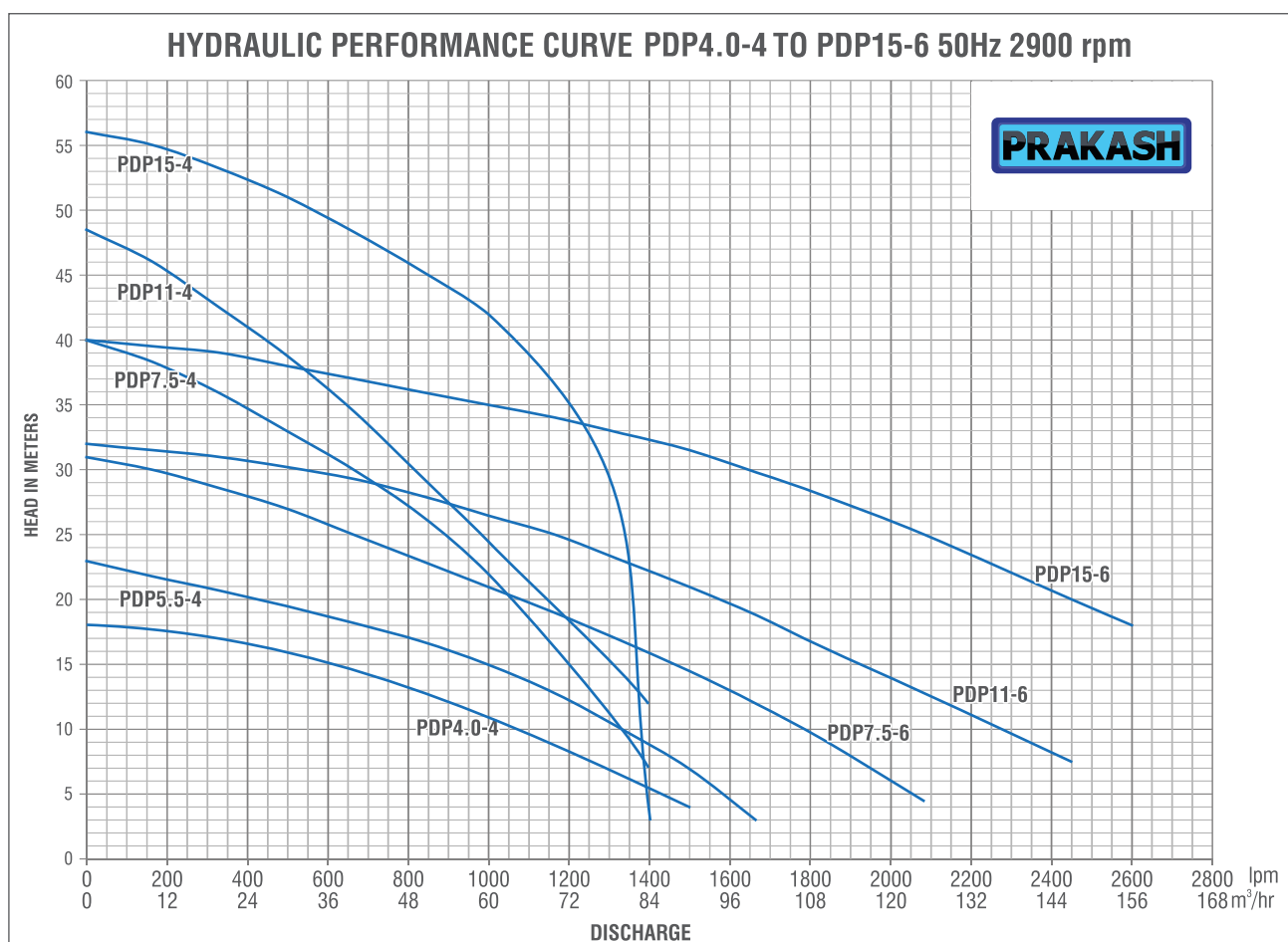
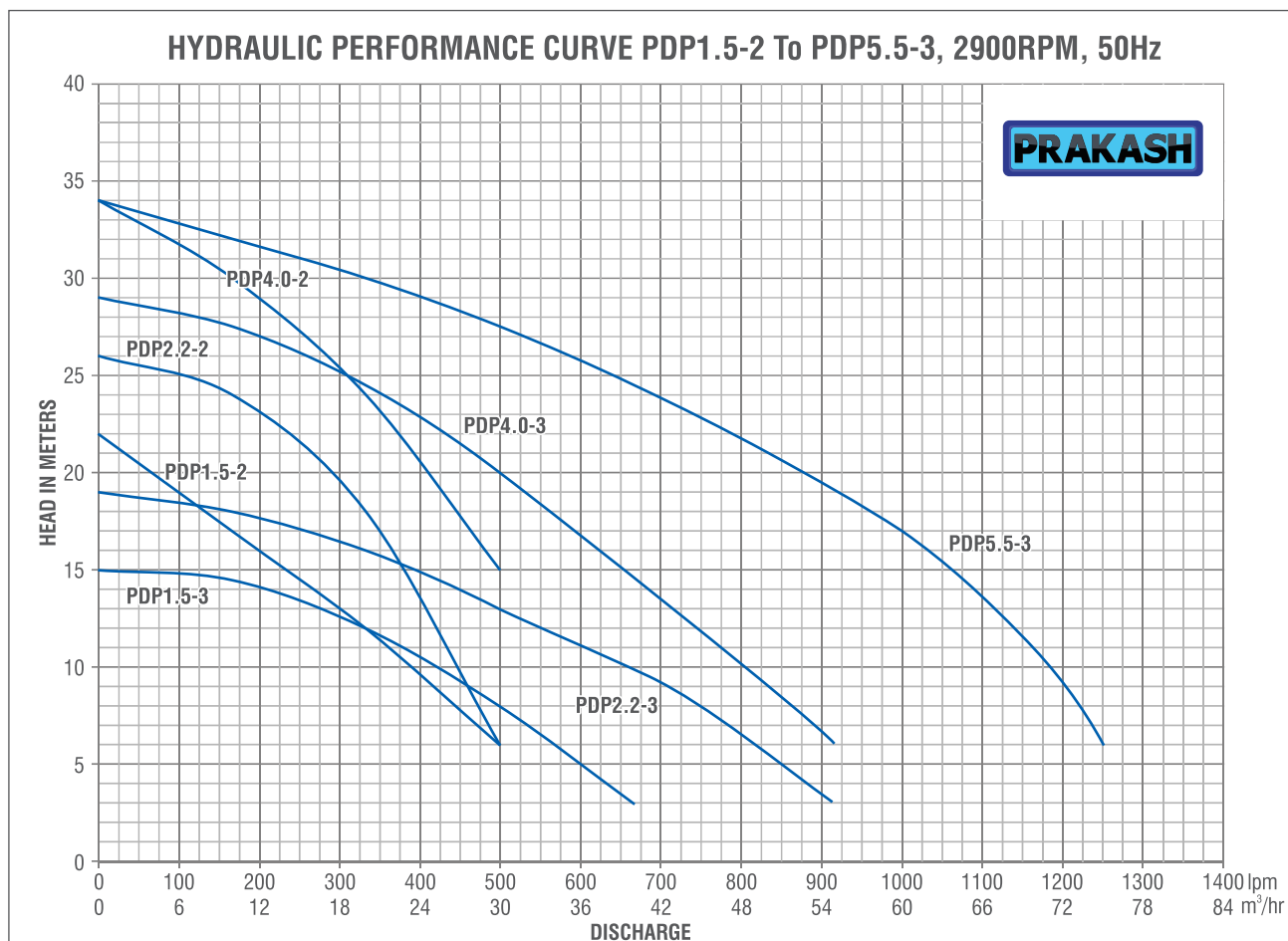


Material of Construction (MOC)

Item no.	Part name	Material	Item no.	Part name	Material
01	Outlet	Cast iron	28	Rotor	Shaft: AISI420SS
03	Handle	Steel & rubber	31a	Bearing	Ball bearing
05	Upper cover	Cast iron	31b	Bearing	Ball bearing
11	Motor body	Cast iron	33	Motor protector	
12	Outer casing	Steel	34	Mechanical seal	Sic-sic/Carbon-sic(<2.2kW) Sic-sic/sic-sic(>4.0kW)
14	Impeller	SS304			
15	Diffuser plate	SS304	35	Oil seal	
25	Strainer		47	Cable	
27	Stator				

SS 304
Impeller
and
Diffuser
Plate





PRAKASH

Office in India

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