



Quality, Reliability, Life

Submersible Dewatering Pump 60Hz



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Submersible Dewatering Pump 60Hz

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Applications

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

Application Limits

- Liquid temperature : Up to 45°C
- Ambient temperature : Up to 45°C
- Maximum operating depth : up to 30m
- Liquid PH : 6.5 to 8.5

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.

Performance Range

- Flow : Up to 156 m³/hr
- Head : up to 40m
- Speed : 3450 RPM

Motor Details

- 2 Pole motor
- 100% Copper winding
- Protection class : IPX8 / IP68
- Insulation class : F
- Voltage : 380-420v, 60Hz
- Cable length : 8m

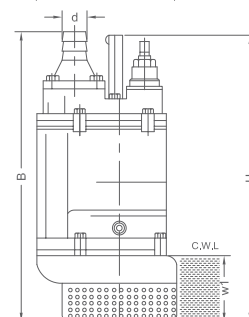
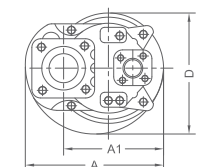
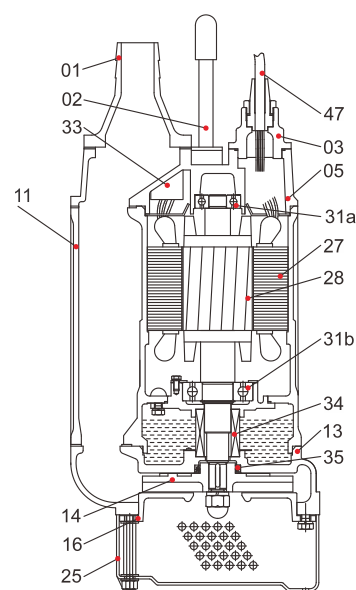
Selection chart

Model	Power		Voltage/ 60Hz	Rated speed (RPM)	Outlet (Inch)	Max. Head (m)	Max. Flow (m ³ /h)	Impeller Passage (mm)	Net weight (Kg)
	kW	HP							
PDP2.2-3	2.2	3.0	380-420v	3450	3	19	55	8.5	39
PDP4.0-3	4.0	5.5	380-420v	3450	3	29	55	8.5	63
PDP5.5-3	5.5	7.5	380-420v	3450	3	34	75	8.5	77
PDP7.5-4	7.5	10	380-420v	3450	4	40	84	11.5	106
PDP11-6	11	15	380-420v	3450	6	32	147	19.5	139
PDP15-6	15	20	380-420v	3450	6	40	156	19.5	146

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	
13	Pump Body	Cast iron	34	Mechanical seal	Sic-sic/Carbon-sic (<2.2kW)
14	Impeller	SS304			Sic-sic/sic-sic (>4.0kW)
15	Diffuser plate	SS304	35	Oil seal	
25	Strainer	Carbon Steel	47	Cable	
27	Stator				

Sectional View



W1 : Continue running water level

Pump Dimensions

Model	Dimensions in mm						
	d	A	A1	B	D	H	W1
PDP2.2-3	80	235	173	517	216	486	120
PDP5.5-3	80	306	218	671	259	598	150
PDP7.5-4	100	330	240	764	314	676	190
PDP11-6	150	373	255	807	350	695	190
PDP15-6	150	373	255	842	350	755	190

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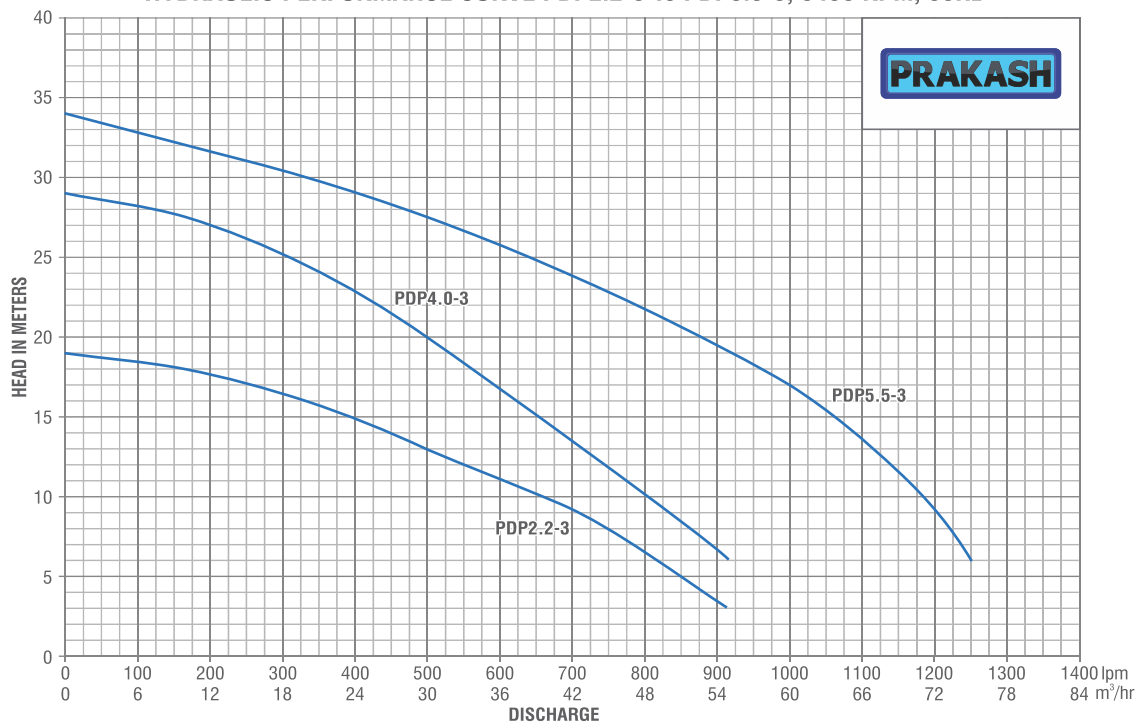
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Performance Chart

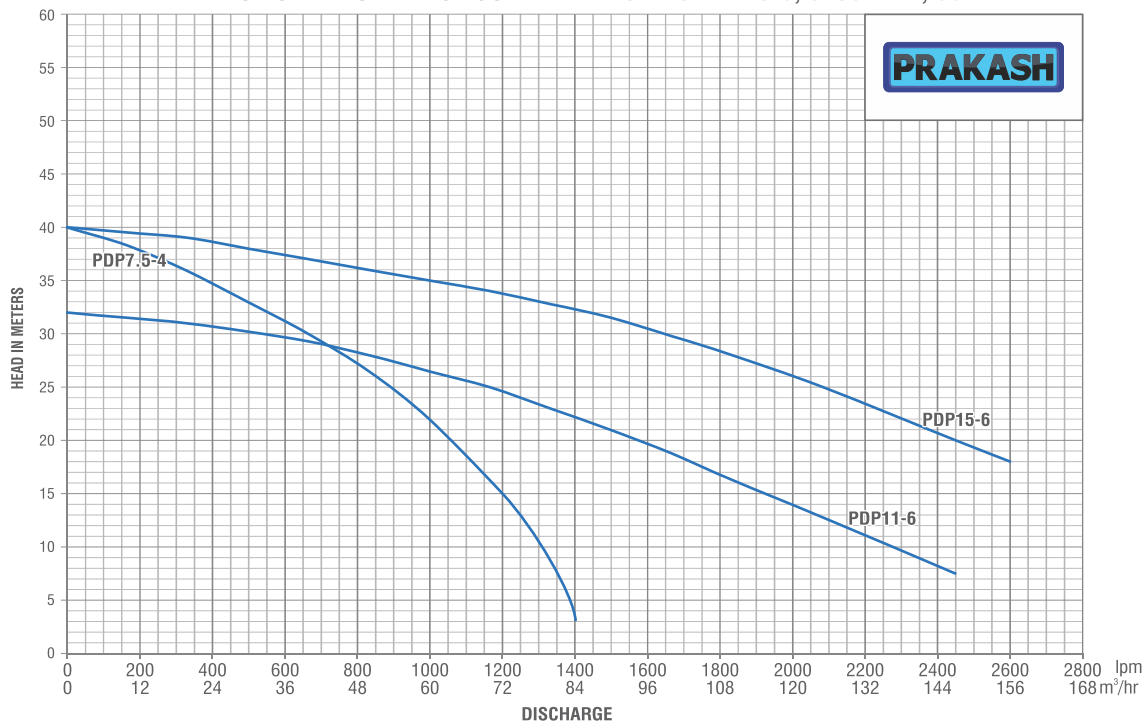
3450 RPM

Model	Power		Q																				
	KW	HP		US GPM	0	44	88	132	176	220	424	264	308	330	352	370	396	440	462	484	550	647	687
				M³/H	0	10	20	30	40	50	55	60	70	75	80	84	90	100	105	110	125	147	156
				LPM	0	167	333	500	667	834	917	1000	1167	1250	1334	1400	1500	1667	1750	1834	2084	2450	2601
PDP2.2-3	2.2	3.0	Head(m)	19	18	16	13	9	5	3													
PDP4.0-3	4.0	5.5	Head(m)	29	27.5	24	20	14	8	6													
PDP5.5-3	5.5	7.5	Head(m)	34	32	30	27.5	24.5	21	19	17	12	6										
PDP7.5-4	7.5	10	Head(m)	40	38	36	33	30	26.5	24.5	22	16	13	10	3								
PDP11-6	11	15	Head(m)	32	31.5	31	30	29	28	27.5	26.5	25	24	23	22	21	18.5	17	16	13	9		
PDP15-6	15	20	Head(m)	40	39.5	39	38	37	36	35.5	35	34	33.5	33	32	31.5	30	29	28	25	20	18	

HYDRAULIC PERFORMANCE CURVE PDP2.2-3 To PDP5.5-3, 3450 RPM, 60Hz



HYDRAULIC PERFORMANCE CURVE PDP7.5-4 To PDP15-6, 3450 RPM, 60Hz



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