



Quality, Reliability, Life

Submersible Slurry Pump



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Applications

- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes
- Pumping fluid: sludge, liquids-containing mud and bentonite

Application Limits

- Water temperature : up to 40°C
- Max. water depth: 15m

Performance Range

- Capacity : Up to 370 m³/h
- Head : Up to 32 meters
- Discharge : 80mm (3") to 200mm (8")
- Speed : 1450 RPM

Motor Details

- Power supply: Three Phase 380-420v, 50Hz
- Power: 4kW (5.5HP) to 22kW (30HP)
- Insulation Class : F
- Protection : IP68
- Cable length : 8mtr

Installation and use

Submersible slurry pump with a 4-pole motor for an increased lifetime and greater convenience.

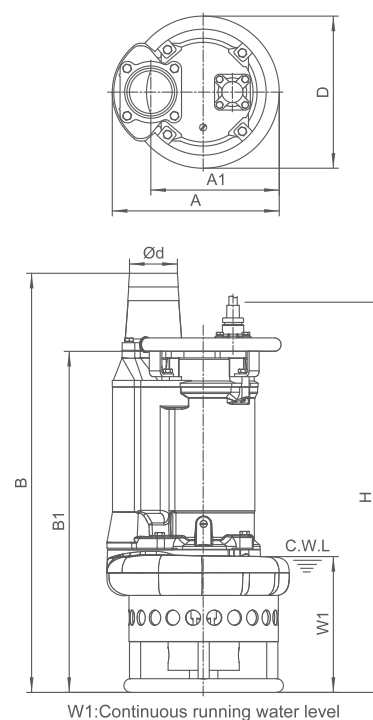
High chrome alloy impeller combined with agitator for pumping heavy slurry. Slim design with a top discharge enabling installation in smaller casing. For bentonite mixed water in foundation works or muddy water in civil engineering works.

Selection chart

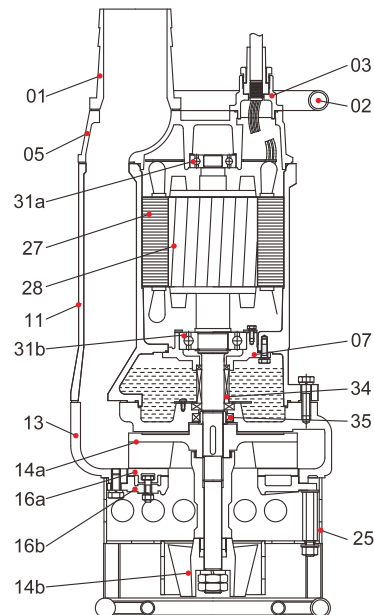
Model	Power		Voltage (50Hz)	Starting Method	Rated speed (RPM)	Outlet (Inch)	Max. head (Mtr)	Max. Flow (m ³ /h)	Impeller Passage (mm)	Net weight (Kg)
	kW	HP								
PSSP4.0-3	4	5.5	380-420v	DOL	1450	3	15	100	30	108.5
PSSP7.5-4	5.5	7.5				4	17	144		141
PSSP11-6	11	15				6	21.5	192		171
PSSP15-8	15	20				8	22	370		260
PSSP22-8	22	30		S/D		8	32	360		408

Pump dimensions

Model	Dimensions in MM							
	d	A	A1	B	B1	D	H	W1
PSSP4.0-3	80	350	260	816	678	26	730	250
PSSP7.5-4	100	415	305	844	682	373	730	250
PSSP11-6	150	434	324	889	727	407	776	250
PSSP15-8	200	484	352	1121	889	457	980	295
PSSP22-8	200	578	442	1245	1015	528	1200	330



Sectional View



Material of Construction (MOC)

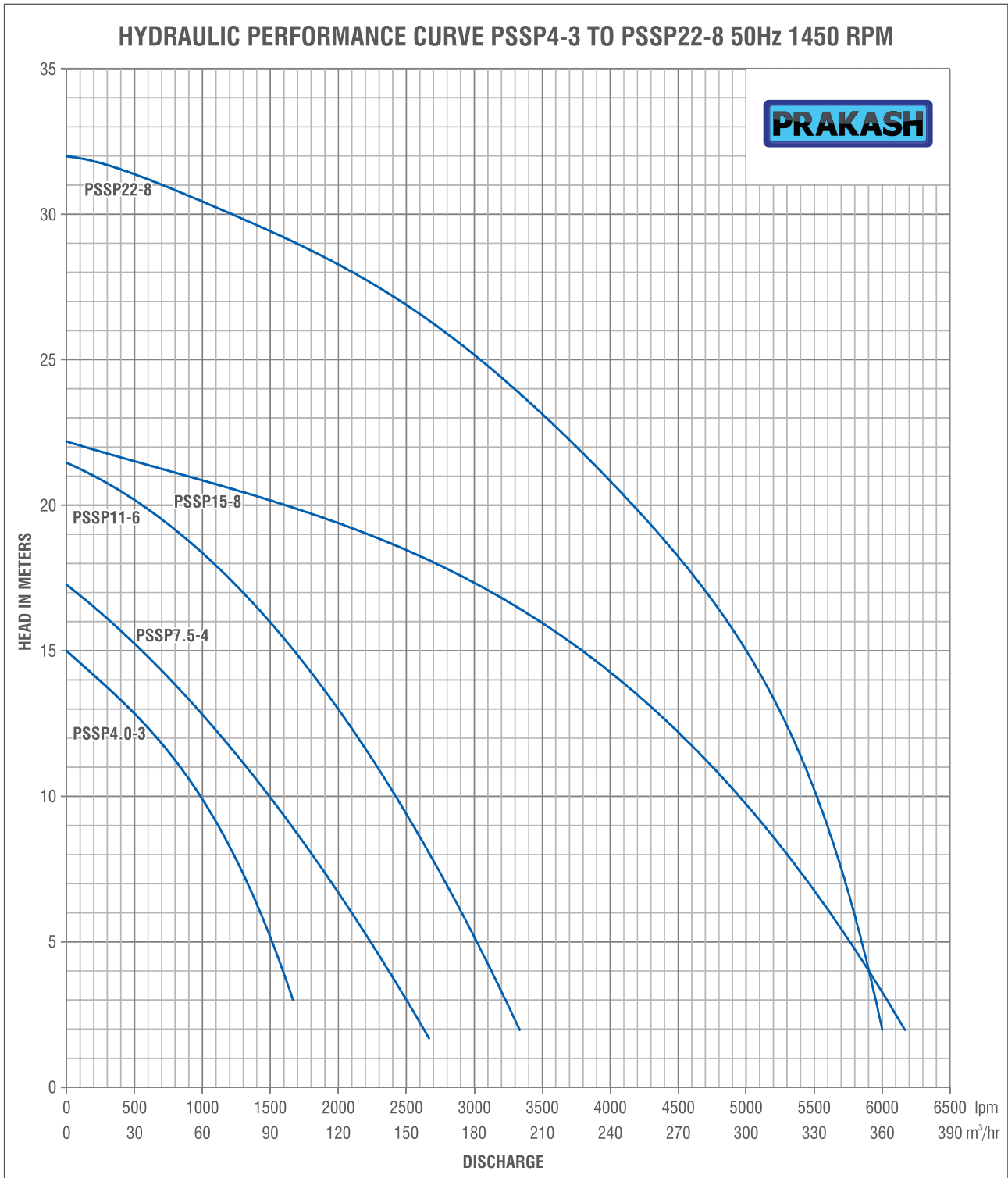
Item no.	Part name	Material	Item no.	Part name	Material
01	Hose coupling	Cast iron	25	Strainer	Steel
02	Handle	Steel	27	Stator	
05	Upper cover	Cast iron	28	Rotor	Shaft: AISI420SS
07	Bearing house	Cast iron	31a	Bearing	Ball bearing
11	Motor body	Cast iron	31b	Bearing	Ball bearing
13	Pump body	Cast iron	34	Mechanical seal	Sic-sic/sic-sic Tc-sic/sic-sic (>15kW)
14a	Impeller	High chrome alloy			
14b	Agitator	High chrome alloy	35	Oil seal	
16a	Inlet plate	High chrome alloy	47	Cable	
16b	Inlet plate	Cast iron			



Performance chart

1450 RPM

Model	Power		Q	US GPM	0	176	352	440	528	705	881	1057	1233	1409	1585	1629
	KW	HP		M ³ /H	0	40	80	100	120	160	200	240	280	320	360	370
				LPM	0	667	1334	1667	2000	2667	3334	4001	4668	5334	6001	6168
PSSP4.0-3	4	5.5	H Meters		15	12	7	3								
PSSP7.5-4	7.5	10			17	15	11	9	6	2						
PSSP11-6	11	15			21.5	19.5	17	15	13	8	2					
PSSP15-8	15	20			22	21.5	20.5	20	19.5	18	16	14	12	8	3	2
PSSP22-8	22	30			32	31	30	29	28	26.5	24	20.5	17.5	12	2	



Applications

- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes
- Pumping fluid: sludge, liquids-containing mud and bentonite

Application Limits

- Water temperature : up to 40°C
- Max. water depth: 20m

Performance Range

- Capacity: up to 220 m³/h
- Head: up to 22 meters
- Discharge: 80mm (3") to 150 mm (6")
- Speed : 1450 RPM

Motor Details

- Power supply: Three Phase 380-420v, 50Hz
- Power: 2.2kW (3HP) to 11kW (15HP)
- Insulation Class : F
- Protection : IP68
- Cable length : 8mtr.

Installation and use

Submersible slurry pump with 4-pole motor for increased lifetime and greater convenience.

High chrome alloy impeller combined with agitator for pumping heavy slurry.

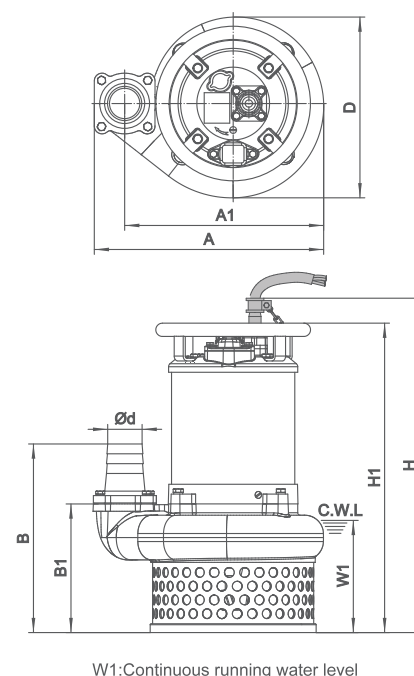
A cooling water jacket to allow the pump to operate at low water levels for extended period of time without the fear of overheating.

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							
PSSP2.2-3	2.2	3.0	380-420v	1450	3	12	75	20	92
PSSP4.0-3	4.0	5.5			3	15	90		108
PSSP4.0-4	4.0	5.5			4	15	114		108
PSSP5.5-4	5.5	7.5			4	17.5	140	30	139
PSSP11-6	11	15			6	22	220		210

Pump dimensions

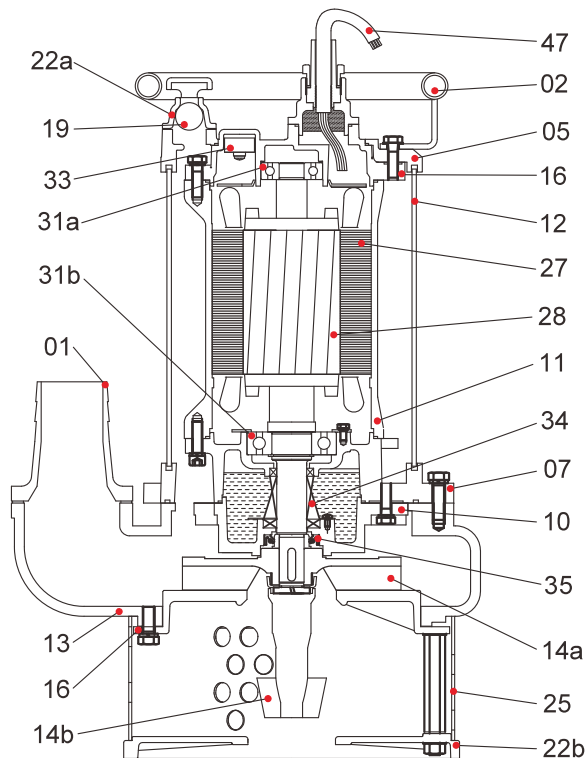
Model	Dimensions in MM								
	d	A	A1	B	B1	D	H	H1	W1
PSSP2.2-3	80	469	408	378	257	371	685	625	230
PSSP4.0-3	80	469	408	378	257	371	750	690	230
PSSP4.0-4	100	469	408	392	257	371	750	690	230
PSSP5.5-4	100	494	433	397	262	386	795	735	225
PSSP11-6	150	598	505	436	275	441	862	802	230



Submersible Slurry Pump

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Sectional View



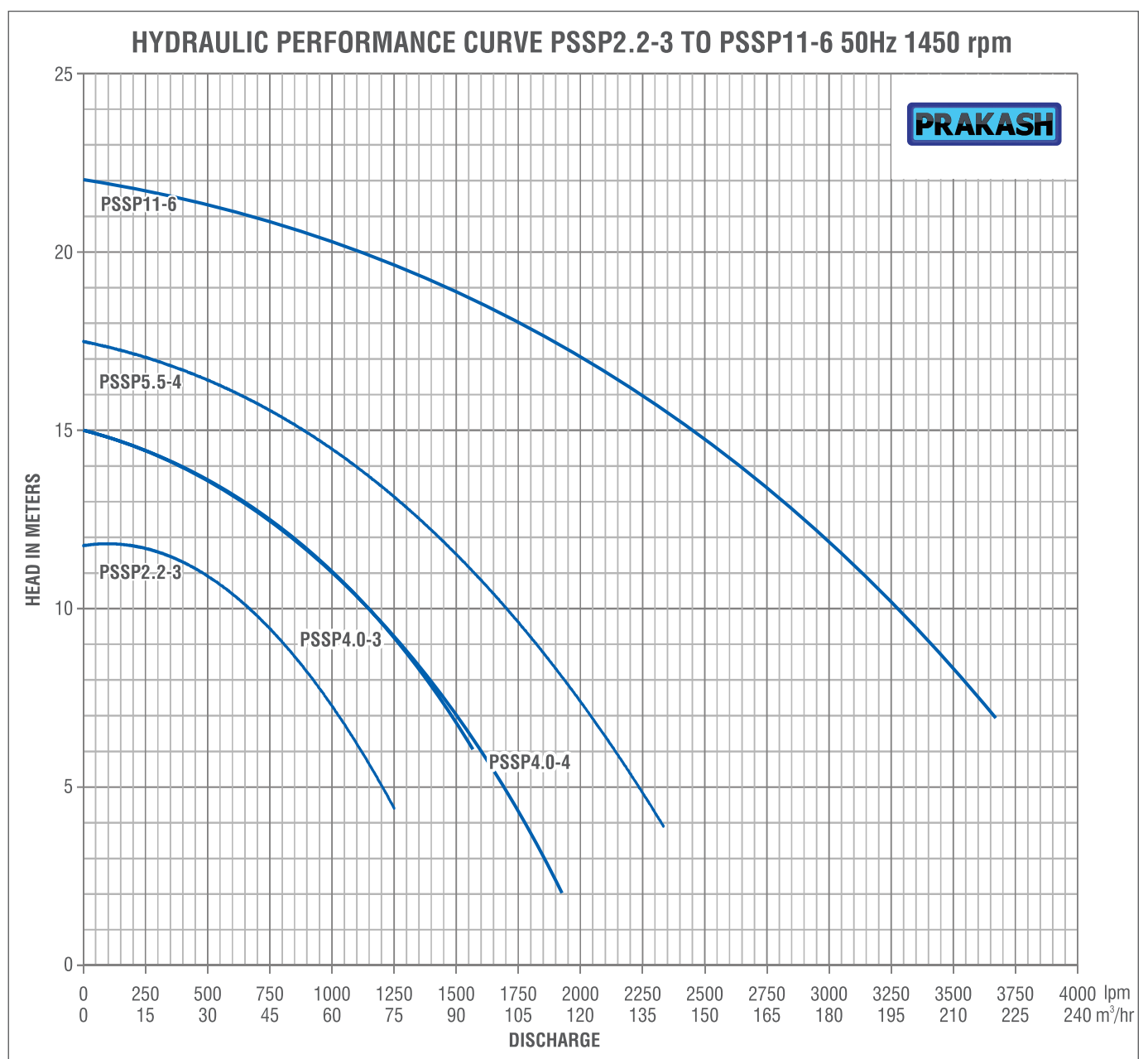
Material of Construction (MOC)

Item no.	Part name	Material	Item no.	Part name	Material
01	Hose coupling	Cast iron	19	Check value	NBR
02	Handle	Steel	22a	Valve seat	Cast iron
05	Upper cover	Cast iron	22b	Seat assembly	Cast iron
06	Up-Bearing house	Cast iron	25	Strainer	Steel
07	Bearing house	Cast iron	27	Stator	
10	Seal house	Cast iron	28	Rotor	Shaft: AISI420SS
11	Motor body	Cast iron	31a	Bearing	Ball bearing
12	Outer casing	Steel	31b	Bearing	Ball bearing
13	Pump body	Cast iron	33	Motor protector	
14a	Impeller	High chrome alloy	34	Mechanical seal	Sic-sic/sic-sic
14b	Agitator	High chrome alloy	35	Oil seal	
16	Inlet plate	Ductile iron	47	Cable	

Performance chart

1450 RPM

Model	Power		Q	US GPM	0	66	132	198	264	330	396	440	462	484	528	617	661	793	969
	KW	HP		M³/H	0	15	30	45	60	75	90	100	105	110	120	140	150	180	220
				LPM	0	250	500	750	1000	1250	1500	1667	1750	1834	2000	2334	2501	3001	3667
PSSP2.2-3	2.2	3	H Meters		12	11.5	10.5	9.5	8	4									
PSSP4.0-3	4	5.5			15	14.5	14	12.5	11	9.5	7	6							
PSSP4.0-4	4	5.5			15	14.5	14	12.5	11	9.5	7	6	4	3					
PSSP5.5-4	5.5	7.5			17.5	17	16.5	15.5	14.5	13	11.5	10.5	10	9	7	4			
PSSP11-6	11	15			22	21.5	21	20.5	20	19	18.5	18	17.75	17.5	17	16	15.5	13.5	5.5



PRAKASH

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