



Quality, Reliability, Life

5", 6" & 8" Openwell Submersible Pump



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5" Openwell Submersible Pump

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Applications

- For water supply from open wells, tanks or reservoirs.
- For domestic use, Civil and industrial applications.
- For garden and irrigation, Utilization of rain water

Performance Range

- Flow: Up to 133 LPM
- Head: Up to 88m
- Speed : 2900 RPM

Application Limits

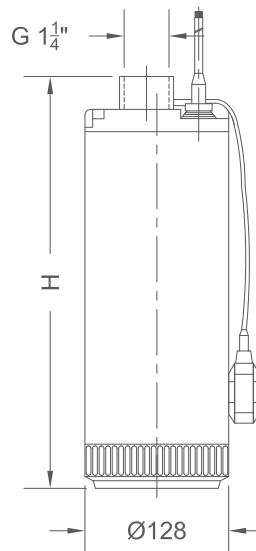
- Water temperature : up to 35°C
- Minimum internal diameter of well: Ø132mm.
- With Extra suction cover for more safety.
- Minimum Immersion Depth : 100mm
- Maximum immersion depth:20m suitable (with cable length)

Motor Details

- 2 Pole oil lubricated motor
- Insulation class : F
- Protection Class : IP68
- Power Rating 0.75kw to 1.5kw
- Power Supply: Single Phase 220V $\pm$ 10%

Function and feature

- Single phase with built-in capacitor and thermal protector on control box required Three phase with built-in thermal protector
- 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.
- Close coupled multi-stage submersible pump in chrome –nickel stainless steel.
- Hydraulic part under the motor and motor cooled by the pumped water for safe operation also with the pump only partially immersed.
- Double shaft seal with interposed oil chamber
- The suction strainer prevents the entrance of solids with diameter bigger than 2 mm.

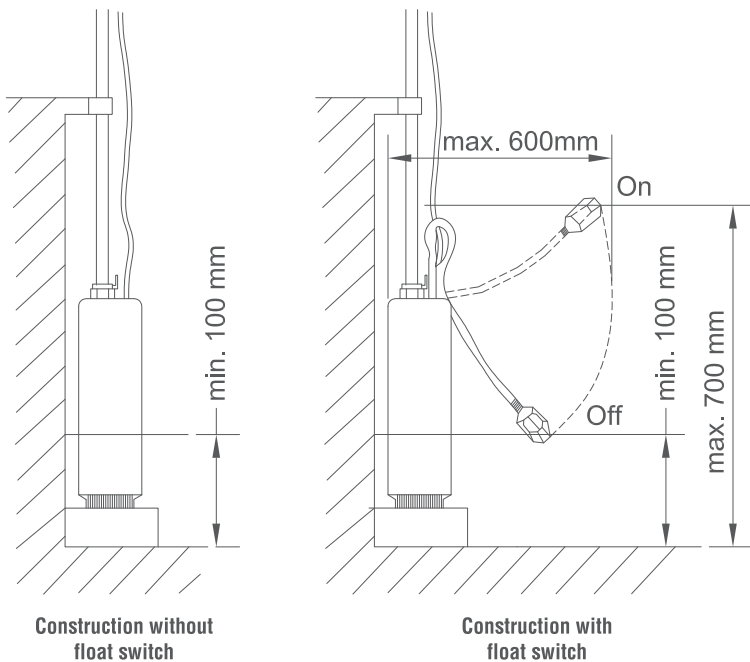


PERFORMANCE CHART

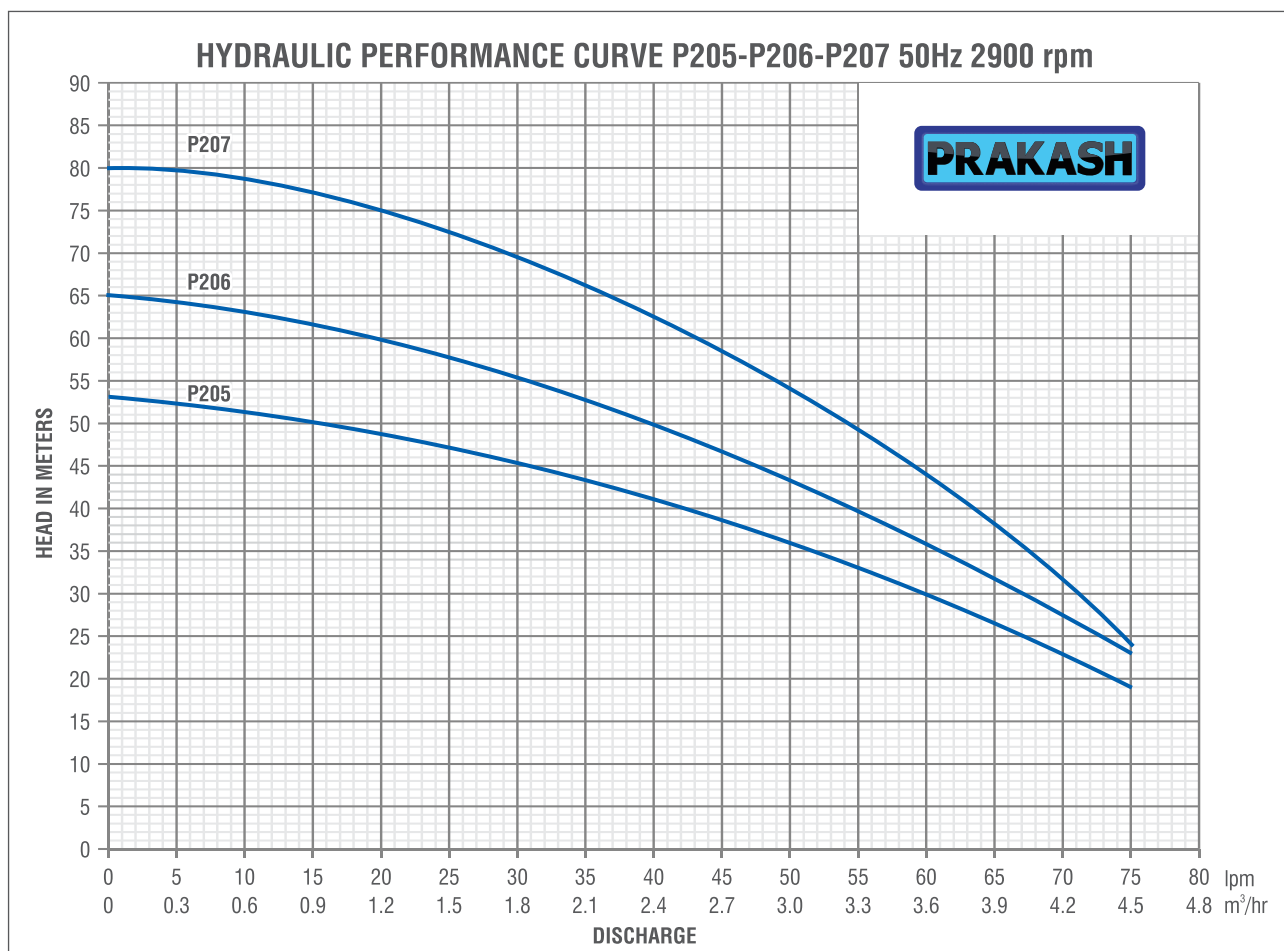
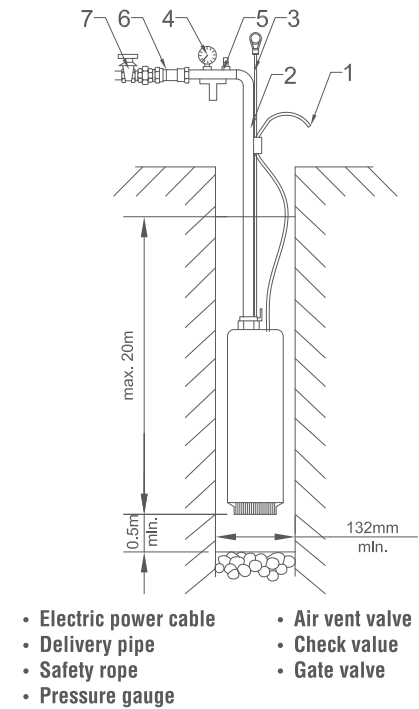
Model	Power		Outlet Inch	H (MM)	N.W (Kg)	Cable (mtr)	Max Flow (LPM)	Q	USGPM	0	4	7	9	11	13	15	18	20	-
	KW	HP							M³/H	0	1	1.5	2	2.5	3	3.5	4	4.5	-
									LPM	0	17	25	33	42	50	58	67	75	-
P205	0.75	1	1¼"	605	17.9	30	83.2	H meters	53	49.5	47	44	40	35	30	25	19	-	
P206	0.9	1.2		645	19.1	35			65	61	58	54	49	43	37	30.5	23	-	
P207	1.1	1.5		680	20.4	40			80	76	71.5	66	60	52.5	46	37	24	-	

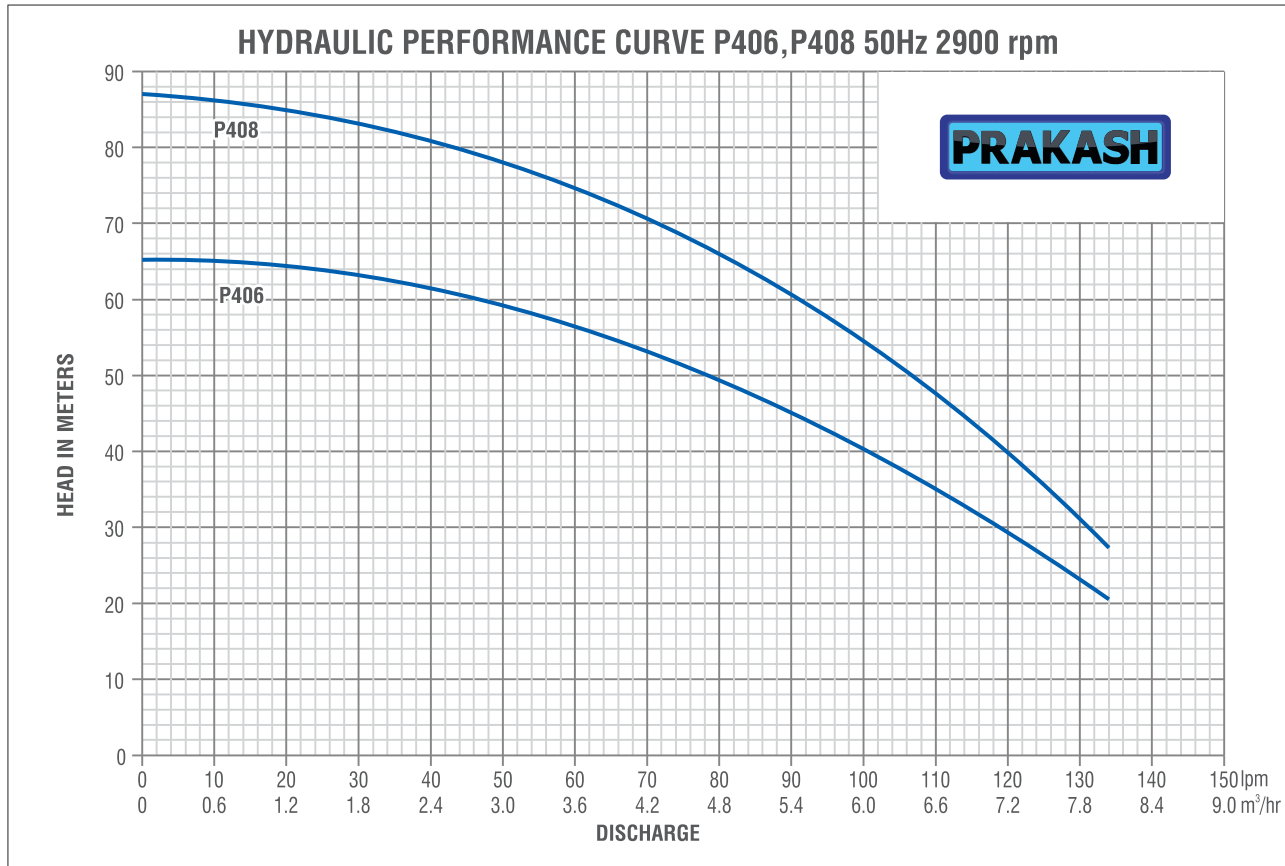
Model	Power		Outlet Inch	H (MM)	N.W (Kg)	Cable (mtr)	Max Flow (LPM)	Q	US GPM	0	11	13	15	18	20	22	26	31	35
	KW	HP							M³/H	0	2.5	3	3.5	4	4.5	5	6	7	8
									LPM	0	42	50	58	67	75	83	100	117	133
P406	1.1	1.5	1¼"	680	22.5	40	133	H meters	66	60	58	56	54	51.5	49	42	34	20.5	
P408	1.5	2	2"	708	28.5	50			88	80	77.5	75	72	68.5	65	56	45	27.5	

Pump in the Resting Position

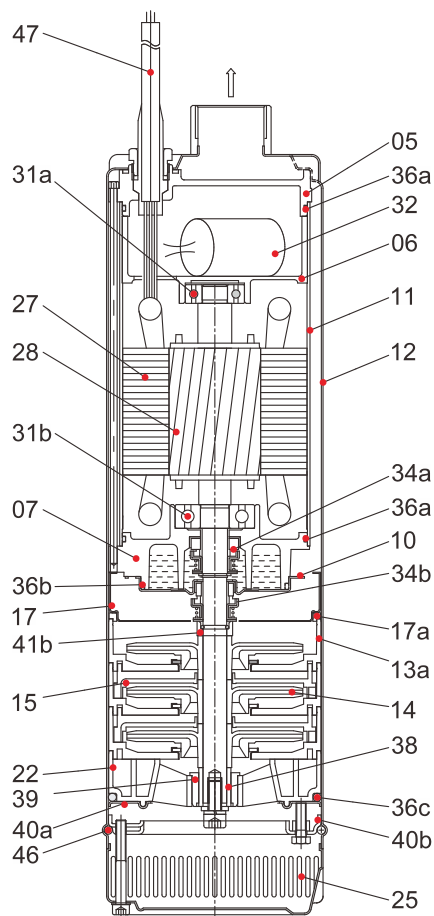


Pump in the Suspended Position





Sectional View & Material of Construction (MOC)



ITEM NO.	PART NAME	MATERIAL
05#	Upper cover	Cast-iron
6	Up-Bearing House	Aluminum die casting
07#	Bearing house	Cast iron
10	Seal bracket	AISI304 SS
11	Motor casing	AISI304 SS
12	Outer casing	AISI304 SS
13a	Pump casing	AISI304 SS
14#	Impeller	PPO/SS
15#	Diffuser	PPO/SS
17	Suction interconnector	AISI304 SS
17a	Coupling ring	PPO
22	Seat assembly	PPO
25	Stainer	AISI304 SS
27	Stator	
28	Rotor	
31a, b	Bearing	
32	Capacitor	
34a	Mechanical seal	Carbon-ceramic
34b	Mechanical seal	Sic-sic
36a,b,c	O-ring	NBR
38	Shaft sleeve	AISI304 SS
39	Bush bearing	PU
40a	Sealing plate	AISI304 SS
40b	Locking plate	AISI304 SS
41b	Pressing block	AISI304 SS
46	Circlips	AISI304 SS
47	Cable	PVC copper (H07RN-F)

#optional: Cast-cu AISI304 SS

6" Openwell Submersible Pump

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Applications

- For water supply from wells, tanks or reservoirs.
- For domestic use, for industrial applications.
- For garden use and irrigation. Utilization of rain water.

Application Limits

- Water temperature up to 40° C
- The solids in the water less than 0.02%(heavy proportion)
- Minimum internal diameter of well: 155mm
- Minimum immersion depth: 250mm
- Maximum immersion depth: 20m (with suitable cable length)

Performance Range

- Capacity : up to 21m³/hr
- Head : up to 49 meter
- Speed : 2900 RPM

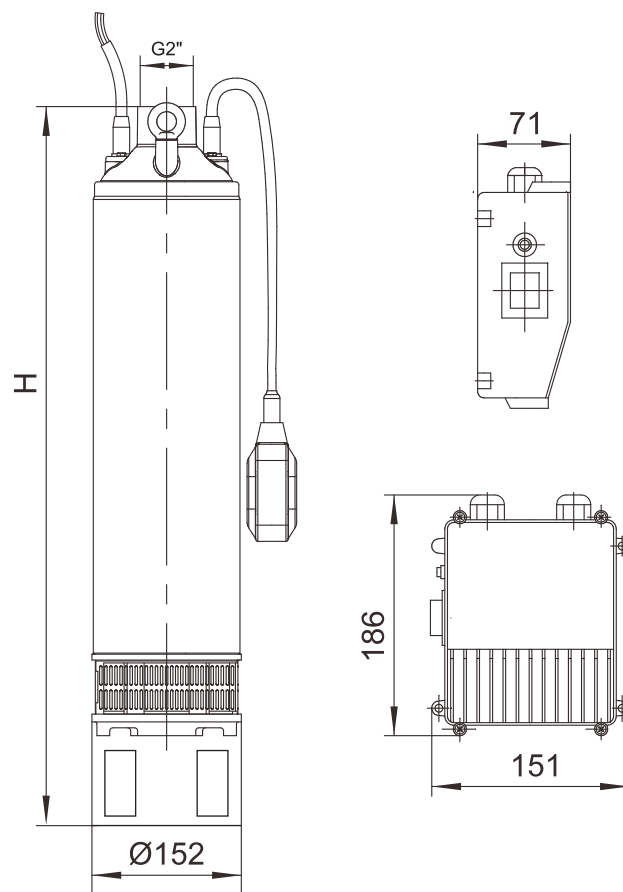
Motor details

- Insulation class : F
- Protection class : Ip68
- Duty S1
- Power : 1.5kW - 2.2kW
- Power supply : single phase 220-240v $\pm$ 10%,50Hz Control box with capacitor and thermal device.
- Cable with float switch
- With extra suction cover for more safety

Feature and Benefits

- Close coupled multi-stage submersible pumps in chrome-nickel stainless steel.
- Hydraulic part under the motor and motor cooled by the pumped water for safe operation also with the pump only partially immersed. Double shaft seal with interposed oil chamber. The suction strainer prevents the entrance of solids with diameter bigger than:2mm

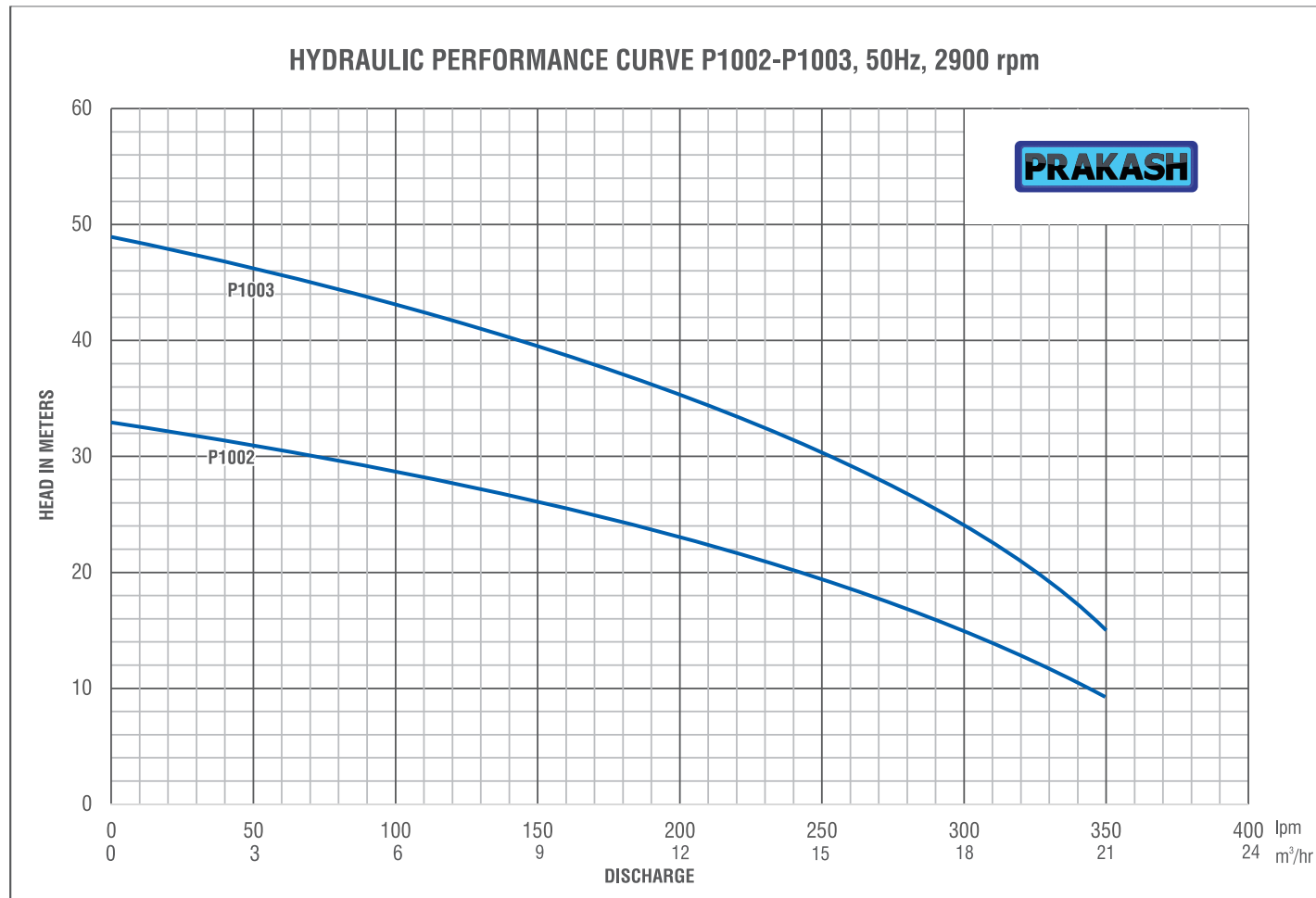
G.A Drawing



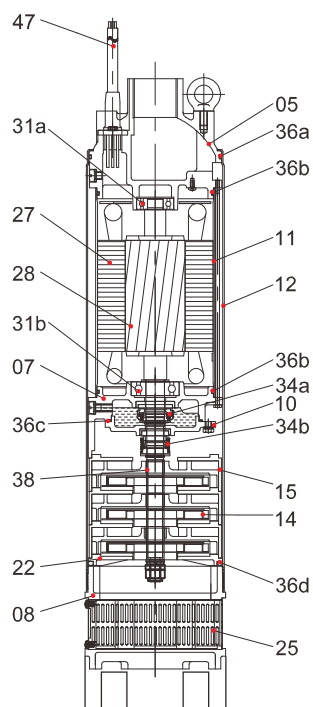
Performance Chart

Model	Voltage	Power		Net Weight (Kg)	Height (mm)	Cable (mtr)	US GPM	0	13	26	40	44	53	66	79	92
							M ³ /H	0	3	6	9	10	12	15	18	21
							LPM	0	50	100	150	167	200	250	300	350
P1002	220v	1.5	2.0	35	688	30	H(m)	33	31	29	26	25	23	20	15	9
P1003	220v	2.2	3.0	40.4	750	40		49	46	43	39	38	35	30	24	15

Performance Curve



Sectional View



Material of Construction (MOC)

Item No.	Part Name	Material
05	Upper cover	Cast-iron
07	Bearing house	Cast-iron
08	Base plate	Cast-iron
10	Seal bracket	Cast-iron
11	Motor casing	Stainless steel
12	Outer casing	Stainless steel
14	Impeller	AISI304SS
15	Diffuser	PPO
22	Seat assembly	PPO
25	Strainer	AISI304SS
27	Stator	
28	Rotor	
31a,b	Bearing	
34a	mechanical seal	Carbon-Ceramics
34b	mechanical seal	Sic-Sic
36a,b,c,d	O'ring	NBR
38	Shaft Sleeve	AISI304SS
47	Cable	H07RN-F

8" Openwell Submersible Pump

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Applications

- For mining, building, factory and industrial applications.
- For water supply from wells, tanks or reservoirs.
- For garden use and agricultural irrigation.

Application Limits

- Water temperature : up to 40 °C
- Maximum immersion depth : 20 m
- PH: 6.5 TO 8.5

Performance Range

- Capacity: up to 44 m³/hr
- Head: up to 104 meter
- Speed : 2900 RPM

Motor details

- Power supply : Three Phase 380v-420v, $\pm$ 10%,50Hz
- Power : 4kW to 11kW
- Insulation Class : B/F
- Protection : Ip68
- Cable length : 15m

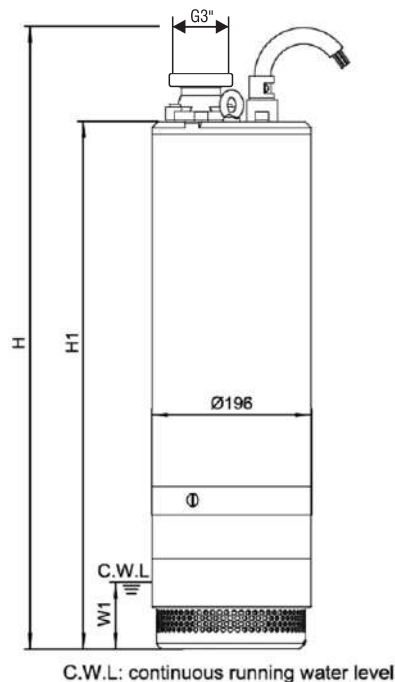
Feature and Benefits

- Hydraulic part under the motor and motor cooled by the pumped water for safe operation also with the pump only partially immersed.
- Electric motor cooled by pumped liquid for long life.

Pump selection chart

Model	Power		Voltage (50Hz)	Outlet	Max. flow (m ³ /h)	Max. head (m)	Net weight (Kg)
	Kw	HP					
PQXNSP-5.5	4.0	5.5	380-420v	G3" (80mm)	28	73	74.3
PQXNSP-7.5	5.5	7.5			28	94	88.3
PQXNSP-10	7.5	10			33	101	96.2
PQXNSP-15	11	15			44	104	107

G.A Drawing



Dimension (mm)

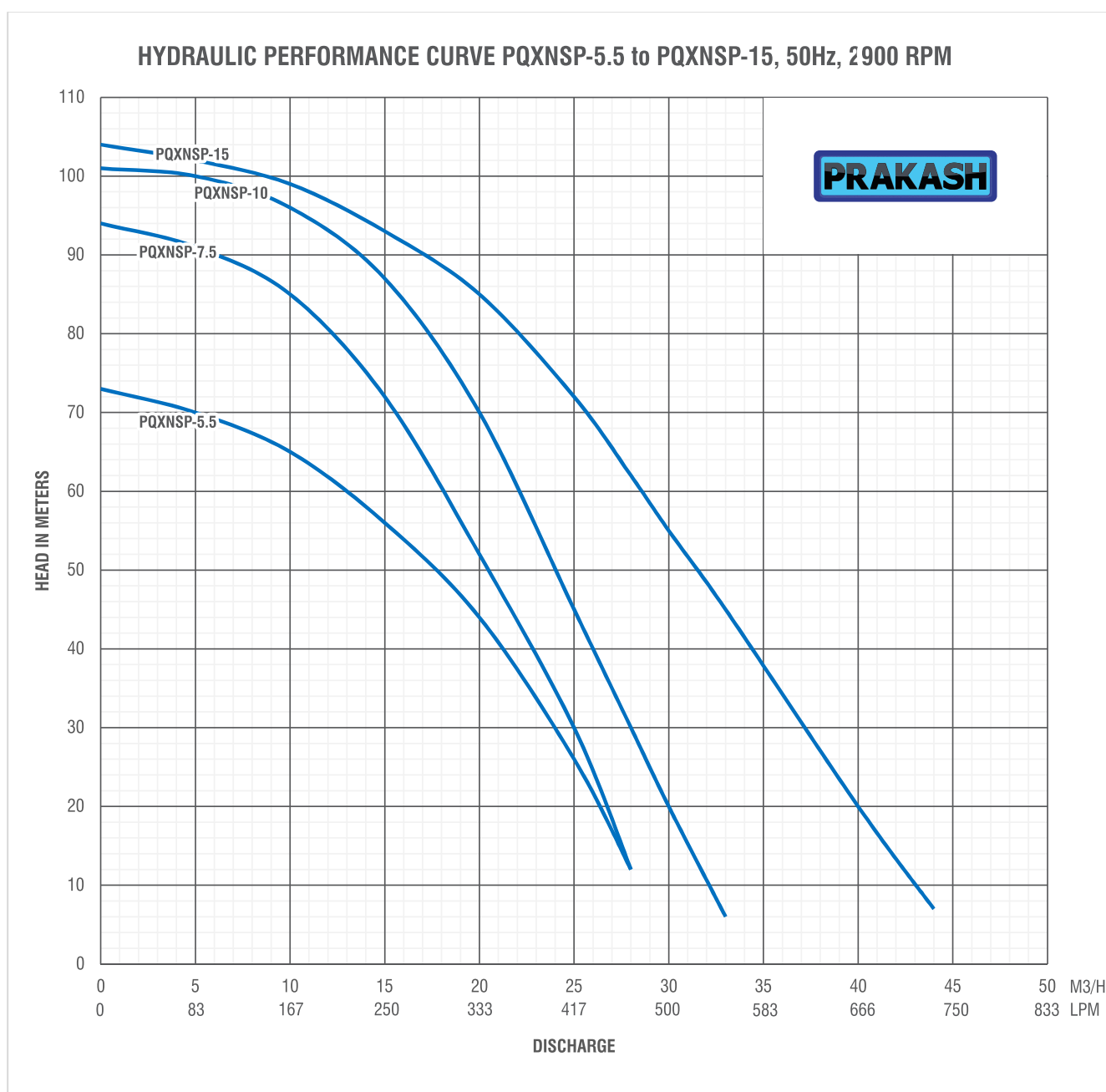
Model	H	H1	W1	Outlet (inch)
PQXNSP-5.5	766	680	80	G3"
PQXNSP-7.5	862	771	80	G3"
PQXNSP-10	925	840	80	G3"
PQXNSP-15	997	910	80	G3"

8" Openwell Submersible Pump

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Performance Table

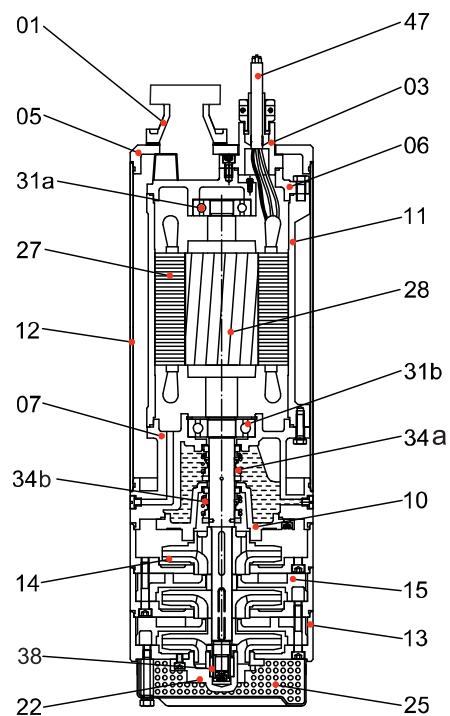
Model	Power		Q	US GPM	0	22	44	66	88	110	123	132	145	176	194
	Kw	HP		M3/H	0	5	10	15	20	25	28	30	33	40	44
				LPM	0	83	167	250	333	417	467	500	550	666	733
PQXNSP-5.5	4.0	5.5	Head (m)		73	70	65	56	44	26	12				
PQXNSP-7.5	5.5	7.5			94	91	85	72	52	30	12				
PQXNSP-10	7.5	10			101	100	96	87	70	45	30	20	6		
PQXNSP-15	11	15			104	102	99	93	85	72	62	55	45	20	7



8" Openwell Submersible Pump

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Sectional View



Material of Construction (MOC)

Item no	Part name	Material
01	Outlet	Cast iron
03	Terminal box	Cast iron
05	Upper cover	Cast iron
06	Up-Bearing house	Cast iron
07	Bearing house	Cast iron
10	Seal bracket	Cast iron
11	Motor body	Cast iron
12	Outer casing	Cast iron
13	Pump casing	Cast iron
14	Impeller	Cast iron
15	Diffuser	Cast iron
22	Seat assembly	Cast iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft: SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34a	Mechanical seal	Sic-sic
34b	Mechanical seal	Sic-sic
38	Shaft sleeve	NBR & steel
47	Cable	Copper/PVC

PRAKASH

Office in India

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