



Quality, Reliability, Life

Sewage Pump 60Hz



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Sewage Pump 60Hz

PRAKASH

Applications

- Municipal Project
- Industrial & Residential Building
- Mining
- Civil engineering
- Pumping Sewage from domestic, hotel, school and public building

Application Limits

- Water temperature up to 40°C
- Ambient temperature : up to 40°C
- Density of liquid : 1.3g/cm³
- Maximum operating depth: up to 30m
- Liquid pH : 6.5 to 8.5

Feature and Benefits

- Non-clogging double vane impeller can pump large solid cove full range of head.
- Chrome plated shaft ensure high corrosion resistant and wear resistance.
- Designed for pumping sewage, waste water, rainwater and living water containing solid grains, various fabric, sludge and solid.

Performance Range

- Capacity : up to 160 m³/hr
- Head : up to 43m
- Speed : 3450 rpm
- Power : 0.37 - 7.5Kw

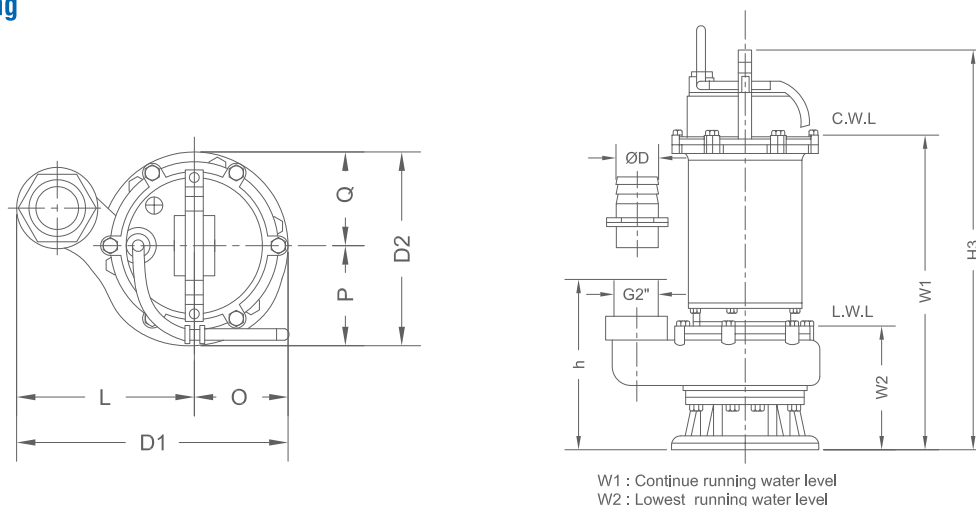
Motor Details

- 2 Pole Motor
- 100% Copper winding
- Protection class : IPX8/IP68
- Insulation class : F
- Power Rating : 0.37 - 7.5Kw
- Power supply : Single Phase: 220v-240v, 60Hz
Three Phase: 380v-420v, 60Hz
- Thermal protection : Built-in (only single phase)

Installation and Use

This model of pump is characterized with high heads, compact size, light weight and convenient use and vastly used in high-position water delivery, flush and places as construction sites. The float switch can automatically control on and off with the change of the water level. The protection in the motor can automatically cut off the power when it overheats or over current.

G.A. Drawing



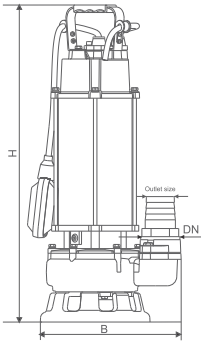
Dimension (mm)

Model	Dimensions in mm										
	$\varnothing D$	h	W1	W2	H3	L	O	Q	P	D1	D2
PSP10-10-0.75F	50	200	315	120	450	115	90	90	96	241	186
PSP10-12-1.1F	50	206	325	120	464	130	90	90	90	256	180

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G.A. Drawing



Dimension (mm)

	PSP7-9-0.37F	PSP15-15-1.5F
DN	G1.25"	G2"
B	164	260
H	357	546

Pump Selection Chart

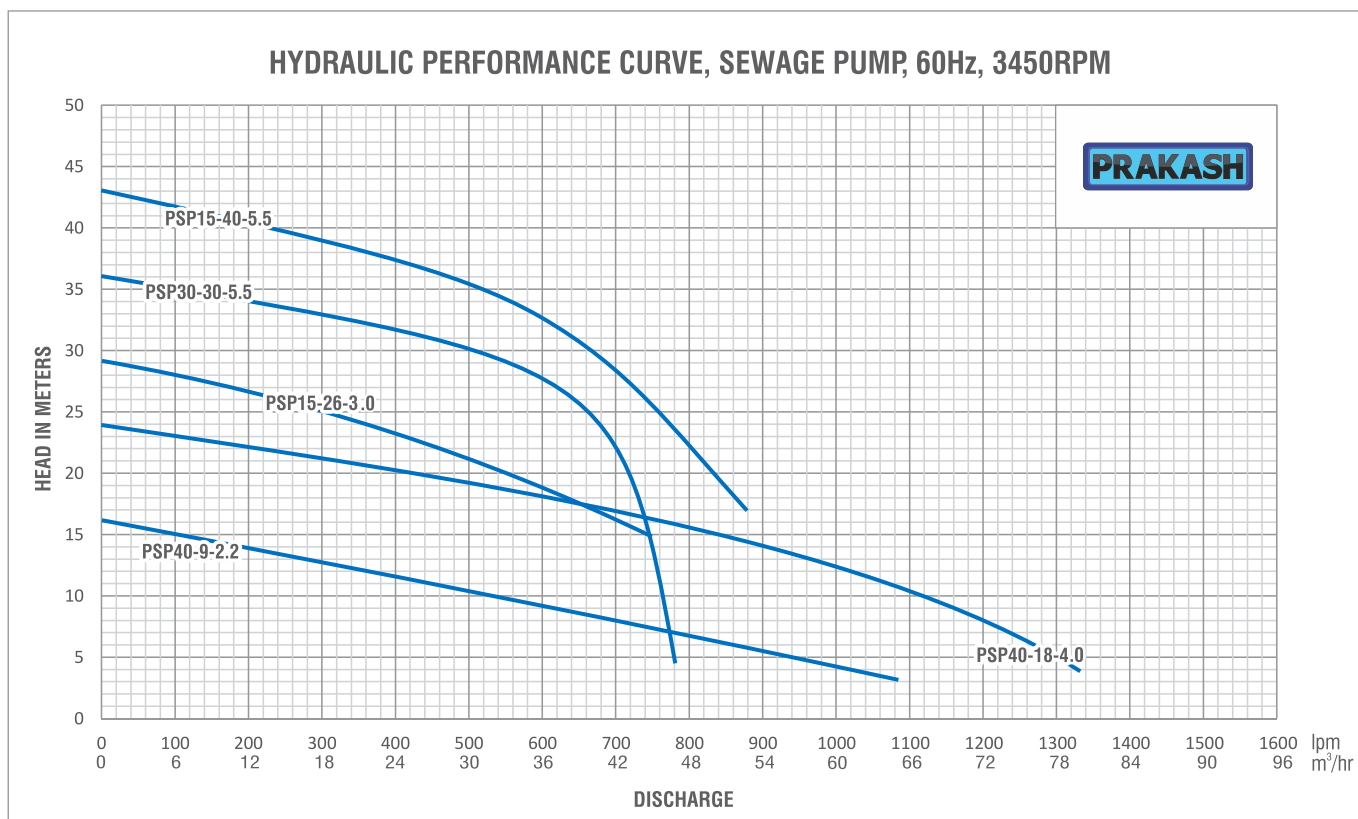
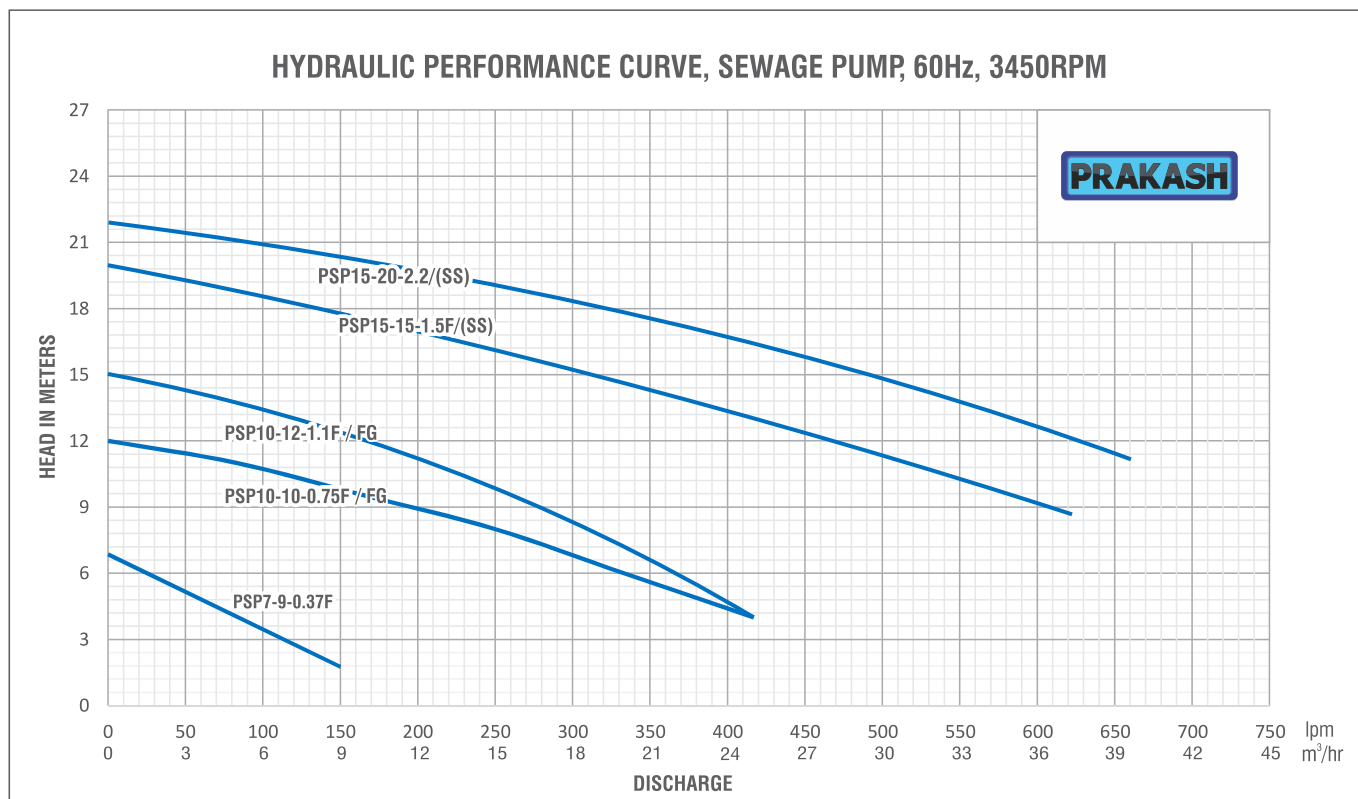
Model	Power		Voltage/ 60Hz	Speed (RPM)	Outlet (Inch)	Guide Rail	Rated		Maximum		Impeller Passage	N.W. KG
	KW	HP					Flow M3/h	Head Mtr	Flow M3/h	Head Mtr		
PSP7-9-0.37F	0.37	0.5	220-240V	3450	1.25	NO	4.5	4.5	9	7	15	9.2
PSP10-10-0.75F / FG	0.75	1.0	220-240V	3450	2	NO/50-50	10	10	25	12	25	21.3
PSP10-12-1.1F / FG	1.1	1.5	220-240V	3450	2	NO/50-50	10	12	25	15	20	23.8
PSP15-15-1.5F	1.5	2.0	220-240V	3450	2	NO	15	15	37	20	25	22.5
PSP15-15-1.5F (SS)	1.5	2.0	220-240V	3450	2	50-50	15	15	37	20	25	25
PSP15-20-2.2 (SS)	2.2	3.0	380-420V	3450	2	50-50	15	20	40	22	25	28
PSP15-20-2.2	2.2	3.0	380-420V	3450	2	50-50	15	20	40	22	25	44
PSP40-9-2.2	2.2	3.0	380-420V	3450	3	80-80	40	9	65	16	30	44.3
PSP15-26-3.0	3.0	4.0	380-420V	3450	2	50-50	15	26	46	29	25	49
PSP40-18-4.0	4.0	5.5	380-420V	3450	3	80-80	40	18	81	24	30	59.2
PSP15-40-5.5	5.5	7.5	380-420V	3450	2	50-50	15	40	52	43	25	73
PSP30-30-5.5	5.5	7.5	380-420V	3450	3	80-80	30	30	47	36	30	75.5
PSP100-10-7.5	7.5	10	380-420V	3450	6	150-150	100	10	160	20	35	134

Performance Chart

Model	Power		Q	US GPM	0	22	44	66	80	110	132	154	176	198	220	242	264	286	308	330	356
	KW	HP		M ³ /H	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	81
				LPM	0	83	167	250	333	417	500	583	667	750	834	917	1000	1084	1167	1250	1350
PSP7-9-0.37F	0.37	0.5	Head (m)	7	4																
PSP10-10-0.75F / FG	0.75	1.0	Head (m)	12	11	9.5	8	6	4												
PSP10-12-1.1F / FG	1.1	1.5	Head (m)	15	13.8	12	10	7	4												
PSP15-15-1.5F / (SS)	1.5	2.0	Head (m)	20	18.5	17.5	16	15	13	11.5	9.5										
PSP15-20-2.2 / (SS)	2.2	3.0	Head (m)	22	21	20	19	18	16.5	15	13	11									
PSP40-9-2.2	2.2	3.0	Head (m)	16	15.5	14.5	13.5	12.5	11.5	10.5	9.5	8.5	7.5	6.5	5.5	4.5	3				
PSP15-26-3.0	3.0	4.0	Head (m)	29	28	27	26	24.5	23	21	19	17	15								
PSP40-18-4.0	4.0	5.5	Head (m)	24	23.5	23	22	21	20	19	18	17	16	15	13.5	12	10.5	9	7	4	
PSP15-40-5.5	5.5	7.5	Head (m)	43	42	41	39.5	38	36.5	34.5	32.5	28	25	21							
PSP30-30-5.5	5.5	7.5	Head (m)	36	35	34	33	32	31	30	28.5	25	16								

Model	Power		Q	US GPM	0	110	220	330	440	550	704
	KW	HP		M³/H	0	25	50	75	100	125	160
				LPM	0	417	834	1250	1667	2084	2667
PSP100-10-7.5	7.5	10	Head (m)	20	19	18	16	13.5	10	4	

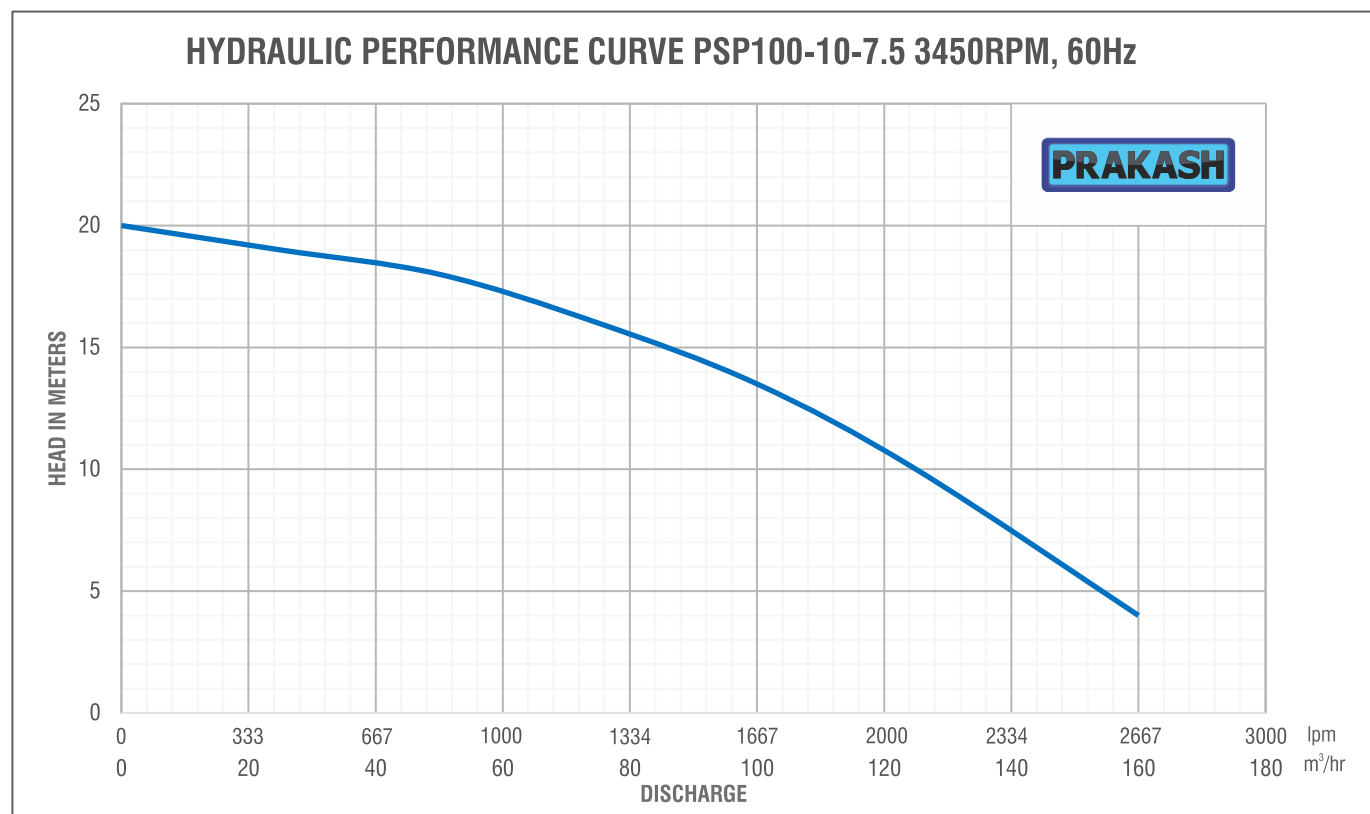
Performance Curve



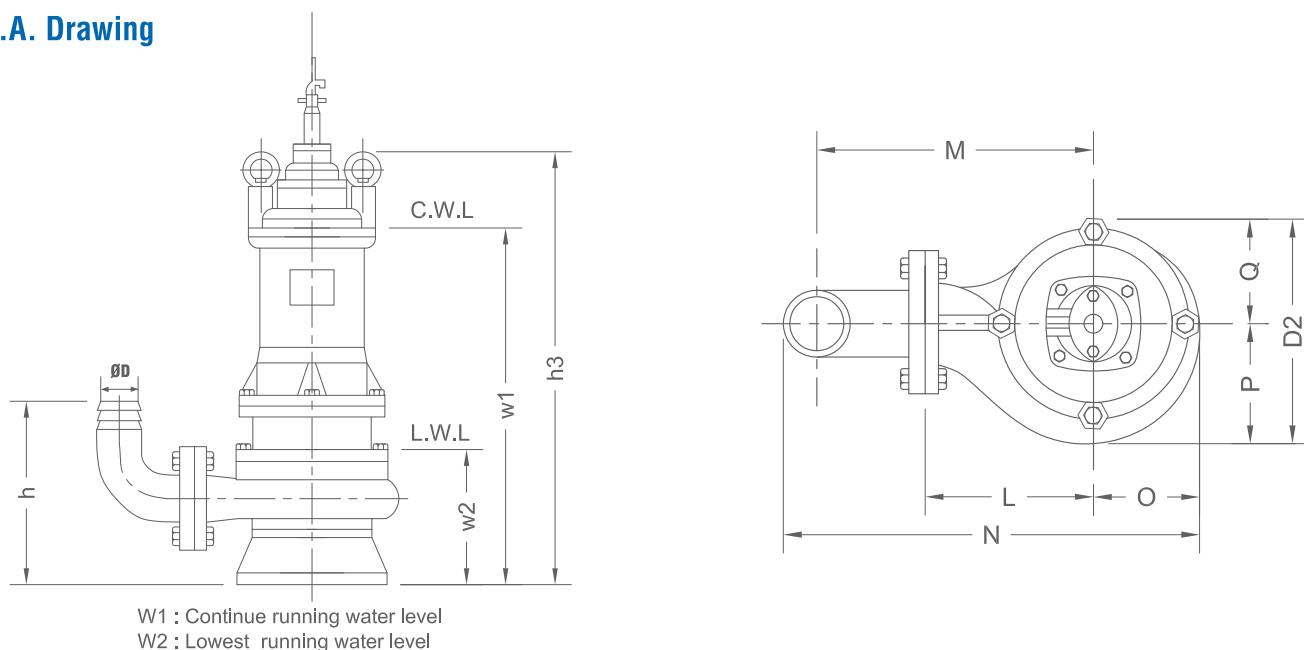
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Performance Curve



G.A. Drawing



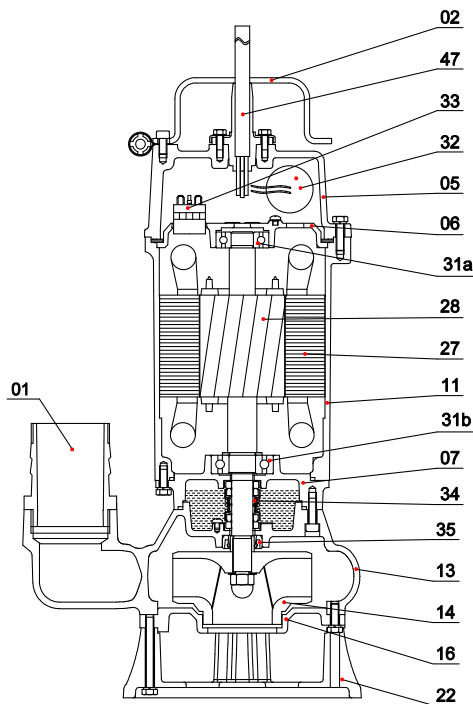
Dimension

Model	Dimensions in mm											
	ØD	h	w1	w2	h3	N	O	P	Q	L	M	D2
PSP10-10-0.75FG	50	200	315	120	450	314	93	100	90	129	195	190
PSP10-12-1.1FG	50	197	325	120	464	316	90	90	90	134	200	180
PSP15-15-1.5F (SS)	50	209	430	160	522	335	102	102	102	142	204	204
PSP15-20-2.2 (SS)	50	209	445	160	550	335	102	102	102	142	204	204
PSP15-20-2.2	50	213	445	224	550	360	105	114	98	165	230	212
PSP40-9-2.2	80	251	455	158	560	385	105	112	96	160	245	208
PSP15-26-3.0	50	212	464	150	570	360	105	115	97	165	230	212
PSP40-18-4.0	80	272	528	195	640	375	105	112	98	150	230	210
PSP15-40-5.5	50	237	523	165	645	390	120	125	115	180	245	240
PSP30-30-5.5	80	270	540	182	660	405	110	115	105	175	255	220
PSP100-10-7.5	150	405	575	245	795	598	162	162	162	210	362	324

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SECTIONAL VIEW (PSP10-10-0.75F, PSP10-12-1.1F)



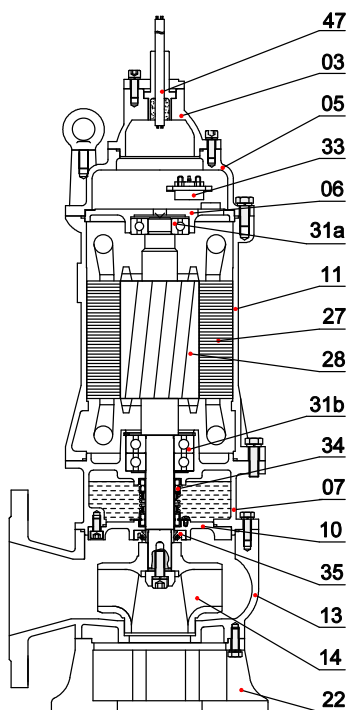
Materials of Construction (MOC)

Item No.	Part name	Material
01	Hose Coupling	Cast iron
02	Handle	Steel
05	Upper cover	Cast iron
06	Up-Bearing house	Cast iron
07	Bearing house	Cast iron
11	Motor body	Cast iron
13	Pump Body	Cast iron
14	Impeller	Cast iron
16	Inlet plate	Cast iron
22	Seat assembly	Cast iron
27	Stator	Combination part
28	Rotor	Shaft : AISI304SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	Combination part
33	Motor protector	Combination part
34	Mechanical seal	Sic-Ceramic/ Carbon-Ceramic
35	Oil Seal	
47	Cable	

Materials of Construction (MOC)

Parts Name	PSP7-9-0.37F	PSP15-15-1.5F	PSP15-15-1.5F (SS)	PSP15-20-2.2 (SS)
Motor Housing	SS	SS304	SS304	SS304
Mechanical Seal	Graphite/Ceramics	Graphite/Ceramic	Sic-Sic-Viton	Sic-Sic-Viton
Impeller	PA66/30% Fiber	Cast Iron	SS304	SS304
Pump Casing	Cast Iron	Cast Iron	SS304	SS304

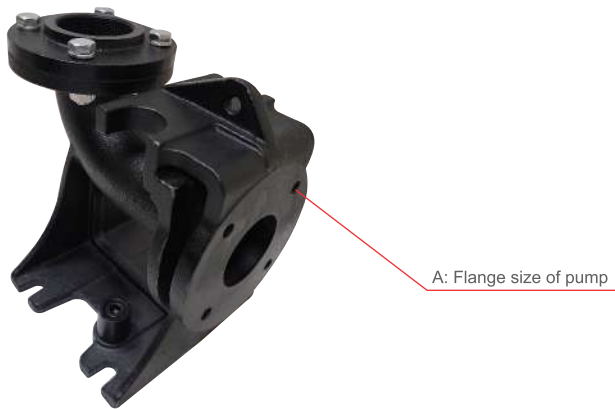
SECTIONAL VIEW (PSP10-10-0.75FG, PSP10-12-1.1FG, PSP15-20-2.2, PSP40-9-2.2, PSP15-26-3.0, PSP40-18-4.0, PSP15-40-5.5, PSP30-30-5.5, PSP100-10-7.5)



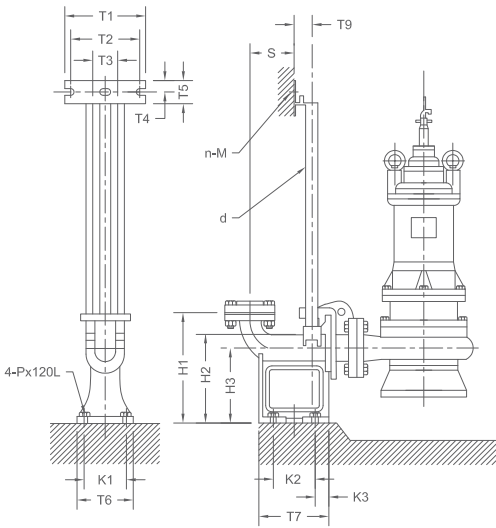
Materials of Construction (MOC)

Item No.	Part name	Material
01	Hose Coupling	Cast iron
01a	Hose Coupling	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
13	Pump body	Cast iron
14	Impeller	Cast iron
22	Seat assembly	Cast iron
22a	Coupling seat	Cast iron
22b	Upper Guide support	Cast iron
27	Stator	Cast iron
28	Rotor	Shaft : AISI304SS
30	Flange	Cast iron
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	
34	Mechanical seal	Sic-Ceramic/ Carbon-Ceramic
35	Oil seal	
37	Cable	

Sewage Pump Guide Rail System Details



G.A. Drawing



Guide Rail Dimension

MODEL	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	K3	S	H1	H2	H3	D	n-M	P	A
50-50	265	215	105	25	42	200	215	13	67	165	135	40	63	250	202	160	25	2-M10x40	M16	ø110/4-ø10
80-80	315	265	145	27	50	255	225	36	78	215	155	40	77	305	242	190	32	2-M10x40	M16	ø150/4-ø18
150-150	400	260	280	24	48	400	410	87	95	280	300	55	192	480	388	300	40	2-M12x50	M20	ø225/8-ø18

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PRAKASH PUMP

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