

HOUSE OF PERFECT 50 YEARS OF LEGACY

PARANAA®
PUMPS

Sewage, Drainage, Dewatering & Sludge Pumps



Product Manufactured at
Platinum Rated Factory



Sewage & Drainage Pumps - Plastic



Characteristics

- Tough ABS construction
- Wear resistant Shaft and Impeller
- Excellent Cooling of the motor enables the pump to operate even when it is partially submerged.
- Automatic operation with Start / Stop Float Switch and Manual operation
- Double mechanical seal
- Protection IP 68

Area of Usage

- House Holds (Small & Large Homes, Cottage)
- Hotels, Restaurants & Commercial Buildings
- Sump & Drainage

Performance Table

Single Phase, CSR, 220-240 V & 50 Hz (0.5 HP to 1 HP)

S.No.	Model	Pipe size in mm	Power		Total head in meters										Max. soft soluble solid passage size (mm)
			kW	HP	1	2	3	4	5	6	7	8	9	10	
1	PSP 30 – 0.50	40	0.37	0.5	10	9	8	6	5	3					30
2	PSP 30 – 0.75	40	0.55	0.75	13	12	11	10	8	7	5	3		30	
3	PSP 38 – 1.0	40	0.75	1.0	18	17	16	14	13	11	10	8	5	3	38

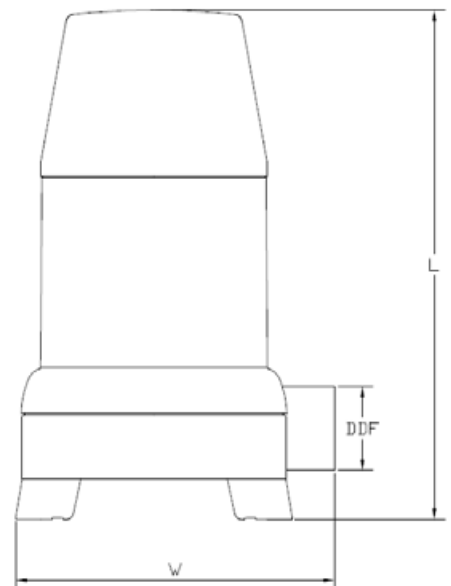
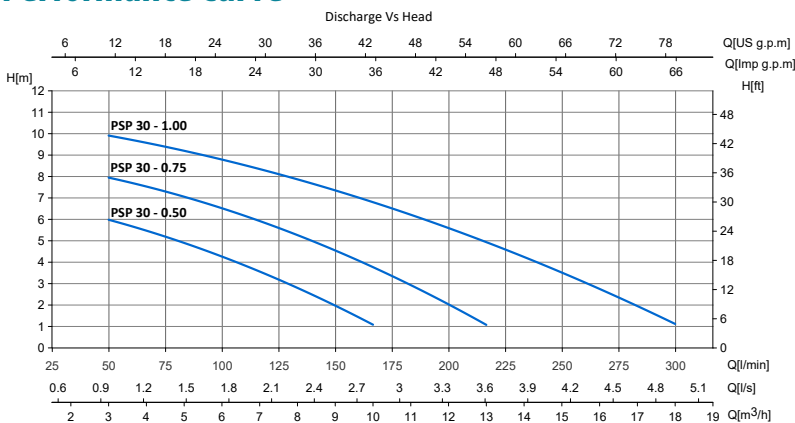
Materials of Construction

S.No.	Part Name	Material
1	Body	ABS Plastic
2	Delivery Casing	ABS Plastic
3	Impeller	Nylon 6
4	Shaft	AISI 410
5	Mechanical Seal	Carbon Vs. Ceramic Silicon Carbide Vs. Silicon Carbide

Applications

- Light & Medium Duty Sewage System
- De-Watering & Effluent
- Dirty Water Transfer
- Light Industrial

Performance Curve



Product Dimensions

S.No.	Model	Product Dimensions in mm			Net weight in kg
		L	W	DDF	
1	PSP 30 – 0.50	300	190	32	4.5
2	PSP 30 – 0.75	320	190	32	6.5
3	PSP 38 – 1.0	380	220	50	8.5



Sewage & Dewatering Pumps - Stainless Steel

Characteristics

- 100% Stainless steel constructions
- Wear resistant shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged.
- Automatic operation with start / stop float switch and manual operation
- Double mechanical seal
- Protection IP 68

Area of Usage

- House holds (small & large homes, cottage)
- Hotels, restaurants & commercial buildings
- Sump & drainage

Performance Table

1) Single Phase, CSCR, 220 - 240 V & 50 Hz (0.5 HP to 2 HP); 2) Three Phase 380 - 415 V & 50 Hz (0.5 HP to 3 HP)

S.No.	Model	Pipe size in mm	Power		Total head in meters										Max. soft soluble solid passage size (mm)	
			kW	HP	2	3	4	5	6	7	8	10	12	14		
1	PSPS 40 - 0.5	40	0.37	0.5	18	15	12	9	6	3						40
2	PSPS 40 - 1.0	40	0.75	1	20	17.5	15	12	9	6	3.5					40
3	PSPS 40 - 1.5	40	1.1	1.5			21	19	17	14	12	6				40
4	PSPS 50 - 2.0	50	1.5	2.0	38	35	32	29	26	23	20	14	4			50
5	PSPS 50 - 3.0	80	2.2	3.0	62	58	54	50	46	42	37	28	19	6		50

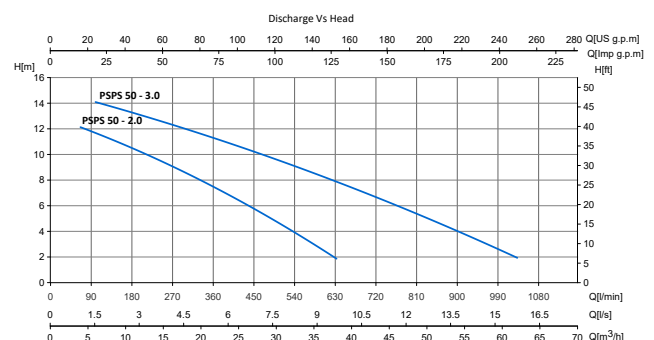
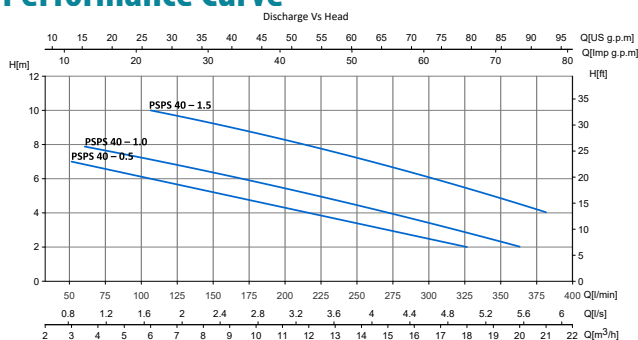
Materials of Construction

S.No.	Part Name	Material
1	Body	AISI 304
2	Delivery casing	AISI 304
3	Impeller	AISI 304
4	Shaft	AISI 304
5	Mechanical seal	Carbon vs Ceramic Silicon Carbide vs Silicon Carbide

Applications

- Light & medium duty sewage system
- De-watering & effluent
- Dirty water transfer
- Light industrial

Performance Curve



Product Dimensions

S.No.	Model	Product Dimensions in mm						Net weight in kg
		L	H	H1	N	A	DN2	
1	PSPS 40 - 0.5	203	410	94	190	108	40	12
2	PSPS 40 - 1.0	203	430	94	190	108	40	14
3	PSPS 40 - 1.5	203	450	94	190	108	40	15
4	PSPS 50 - 2.0	203	450	94	190	108	50	18
5	PSPS 50 - 3.0	203	450	94	190	108	80	21



Sewage Pumps Non-Cutter Models



Characteristics

- Superior design
- Internally mounted mechanical seal
- Fitted with thermal over load protector (top) – single phase
- Low power consumption

Materials of Construction

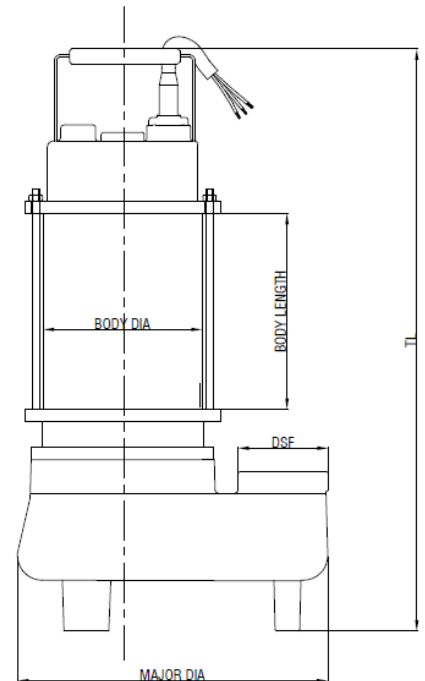
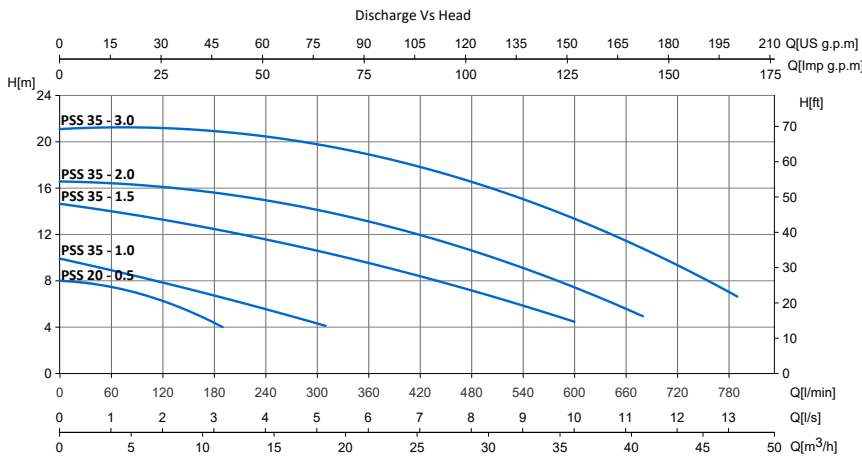
S.No.	Part Name	Material
1	Motor body	AISI 304
2	Volute casing	CI FG 200 with CED coating
3	Impeller (vortex)	CI FG 200 with CED coating
4	Bottom, top and cable cover	CI FG 200 with CED coating
5	Laminations (rotor & stator)	50C 1000
6	Motor shaft	AISI 304
7	Double mechanical seal	SIC / Carbon & SIC / Ceramic

Performance Table

Single phase: 0.5 HP to 3 HP, (220 V-440 V - CSR type) & Three Phase: 1 to 3 HP (380-415 V)

S.No.	Model	Pipe Size in mm	Power		Impeller Passage (mm)	Total head in meters											Max. soft soluble solid passage size (mm)	
			kW	HP		4	6	8	10	12	14	15	17	18	20	22		
1	PSS 20 – 0.5	32	0.37	0.5	20	190	130	0										20
2	PSS 35 – 1.0	50	0.75	1.0	35	310	230	100	0									35
3	PSS 35 – 1.5	50	1.5	2.0	35	600	550	450	350	170	50	0						35
4	PSS 35 – 2.0	50	2.2	3.0	35	680	650	590	550	420	280	180	0					35
5	PSS 35 – 3.0	50 / 80	2.2	3.0	45	790	780	760	750	700	610	560	440	350	170	0		35

Performance Curve



Product Dimensions

S.No.	Model	HP	Product Dimensions in mm					Net weight in kg
			Body Length	Body Dia	DSF	Major Dia	Total Length	
1	PSS 20 – 0.5	0.5	140	90	32	200	355	11
2	PSS 35 – 1.0	1.0	160	130	50	250	413	23
3	PSS 35 – 1.5	2.0	200	130	50	250	453	25
4	PSS 35 – 2.0	3.0	220	130	50	250	473	27
5	PSS 35 – 3.0	3.0	230	130	50 / 80	400	483	29



Sewage Pumps Grinder Model

Characteristics

- Anti corrosive & rust proof material
- Wear resistant shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged
- Automatic operation with start / stop float switch and manual operation
- Double mechanical seal & protection IP 68

Area of Usage

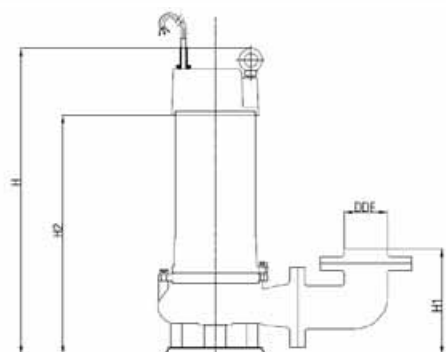
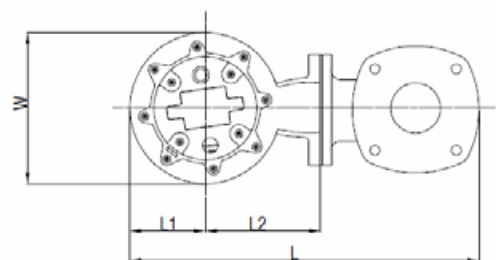
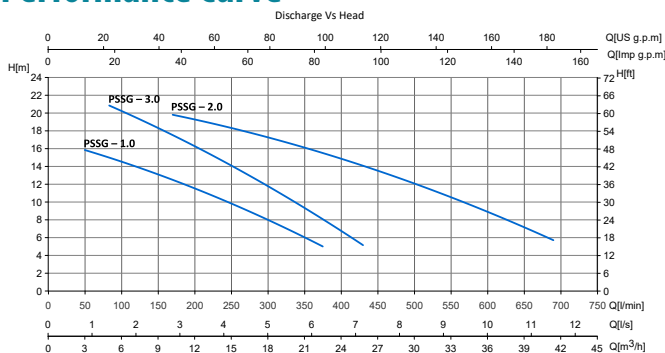
- Civil and Construction sites
- Ponds & Water storage areas
- Sump & drainage

Performance Table

1. Single phase, 220-240 V & 50 Hz (CSR) (1 HP & 2 HP)
2. Three phase 380-415 V & 50 Hz (1HP, 2 HP & 3 HP)

S.No.	Model	Pipe size in inches	Power		Total Head in meters											Max. soft soluble solid passage size (mm)
			kW	HP	5	6	8	11	12	13	14	16	17	19	21	
1	PSSG – 1.0	2	0.75	1	375	350	300	220	190	150	110	50				6
2	PSSG – 2.0	2	1.5	2	430	415	380	315	295	275	255	205	182	128	90	6
3	PSSG – 3.0	2	2.2	3	690	680	645	540	510	480	440	330	280	180	80	6

Performance Curve



Product Dimensions

S.No.	Model	Product Dimensions in mm								Net weight in kg
		H	H1	H2	L	L1	L2	W	DDF	
1	PSSG – 1.0	500	210	380	410	100	155	200	2"	38
2	PSSG – 2.0	550	210	380	410	100	155	200	2"	42
3	PSSG – 3.0	870	220	460	400	100	160	220	2"	47

Materials of Construction

S.No.	Part Name	Material
1	Motor body	AISI 304
2	Volute casing	CI FG 200 with CED coating
3	Impeller (Vortex)	CI FG 200 with CED coating
4	Motor Shaft	AISI 410
5	Mechanical Seal	SIC / Carbon & SIC / Ceramic
6	Cutter	AISI 420
7	Cutter Plate	AISI 304
8	Laminations (Rotor & Stator)	50C 1000

Applications

- Light & heavy-duty de-watering system
- Mines, quarries, coal ore & slurries
- Dirty water transfer
- Sewage treatment plant & industrial waste water pumping



Sewage & Sludge Pumps

Characteristics

- Anticore & rust proof material
- Wear resistant shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged.
- Double mechanical seal & protection ip 68

Area of Usage

- Civil And Construction Sites
- Ponds & Water Storage Areas
- Sump & Drainage

Performance Table

Three phase, 380-415 V & 50 Hz

S.No.	Model	Pipe Size in inches	Power		Total Head in meters											Max. soft soluble solid passage size (mm)
			kW	HP	0	6	12	18	24	36	54	72	90	96	102	
			(Discharge m ³ /hr)													
1	PSP CI 30 – 5.00	100	3.70	5.0	22	21	19.5	19	18	17	16	13	9.5	8.5	6	30
2	PSP CI 30 – 7.50	100	5.50	7.5	26	25	24	23	22	21	20	18	16	14	14	30
3	PSP CI 30 – 10.00	100	7.50	10.0	32	30	29	28	27	26	24	22	20	15	30	

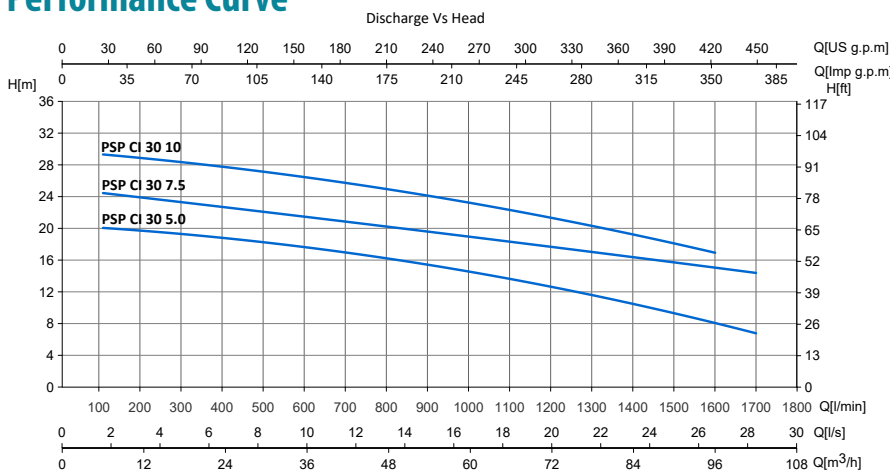
Materials of Construction

S.No.	Part Name	Material
1	Body	CI FG 200 with CED Coating
2	Volute Casing	CI FG 200 with CED Coating
3	Impeller (Vortex)	CI FG 200 with CED Coating
4	Shaft	AISI 410
5	Mechanical Seal	Carbon vs Ceramic Silicon Carbide Vs Silicon Carbide

Applications

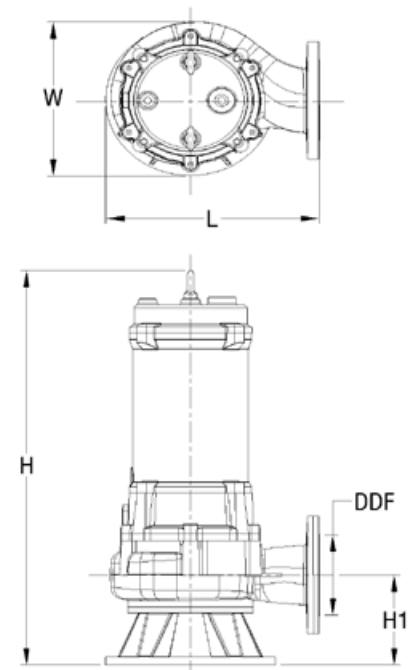
- Heavy - Duty De-Watering System
- Mines, Quarries, Coal Ore & Slurries
- Dirty Water Transfer
- Sewage Treatment Plant & Industrial Waste Water Pumping

Performance Curve



Product Dimensions

S.No.	Model	Product Dimensions in mm					Net weight in kg
		L	W	H	H1	DDF	
1	PSP CI 30 – 5.00	350	275	690	165	100	74
2	PSP CI 30 – 7.50	350	275	750	165	100	84
3	PSP CI 30 – 10.00	350	275	780	165	100	95





Sewage Pumps - Cutter Model

Characteristics

- Anticore & rust proof material
- Wear resistant shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged.
- Automatic operation with start / stop float switch and manual operation
- Double mechanical seal & protection IP 68

Area of Usage

- Civil and construction sites
- Ponds & water storage areas
- Sump & drainage

Performance Table

S.No.	Model	Pipe Size in mm	Power		Head in meters													Max. soft soluble solid passage size (mm)	
			kW	HP	4	7	11	14	18	25	29	36	50	65	79	130			
1	PSPC 40 – 1.0	50	0.75	1.0	11	10	9	7											40
2	PSPC 40 – 1.5	50	1.1	1.5	14	13	12	11	8										40
3	PSPC 40 – 2.0	65	1.5	2.0	16	15	14	13	12	8	7							40	
4	PSPC 40 – 3.0	65	2.2	3.0	18	17	16	15	15	13	11	9						40	
5	PSPC 50 – 5.0	100	3.7	5.0	22	22	21	19	19	18	17	15	12					50	
6	PSPC 50 – 7.5	100	5.5	7.5	26	25	25	24	24	22	22	20	18	14				50	
7	PSPC 35 – 10	65	7.5	10	44	44	43	42	42	38	37	34	26	15				35	
8	PSPC 50 - 10	100	7.5	10	32	31	31	30	30	28	28	27	24	21	18	14		50	

Materials of Construction

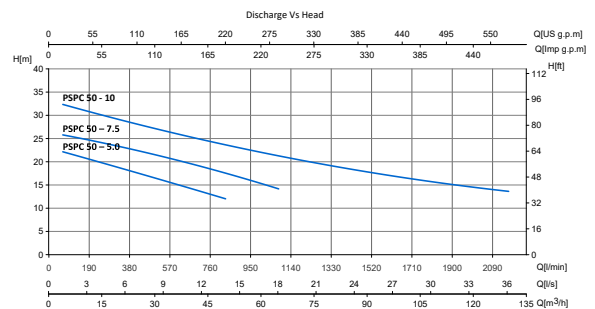
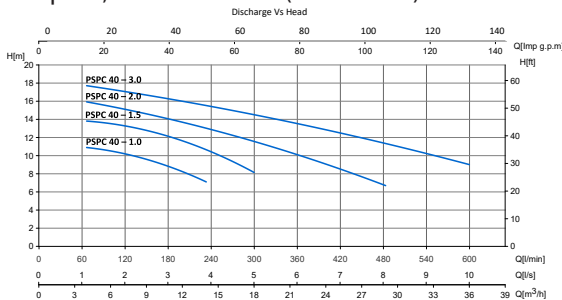
S.No.	Part Name	Material
1	Body	CI FG 200 with CED coating
2	Volute casing	CI FG 200 with CED coating
3	Impeller	Single Channel with CED coating
4	Shaft	AISI 410
5	Mechanical seal	Carbon vs Ceramic Silicon carbide vs Carbide alloy

Applications

- Light & heavy - duty de-watering system
- Mines, quarries, coal ore & slurries
- Dirty water transfer
- Sewage treatment plant & industrial waste water pumping

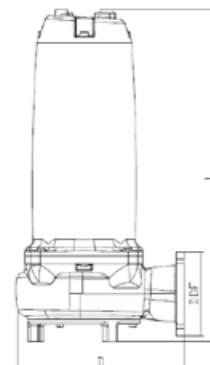
Performance Curve

Three phase, 380 - 415 V & 50hz (1 HP to 10 HP)



Product Dimensions

S.No.	Model	Product Dimensions in mm			Net weight in kg
		L	W	DDF	
1	PSPC 40 – 1.0	425	225	50	33
2	PSPC 40 – 1.5	425	225	50	38
3	PSPC 40 – 2.0	530	250	65	48
4	PSPC 40 – 3.0	530	250	65	57
5	PSPC 50 – 5.0	620	325	100	98
6	PSPC 50 – 7.5	650	325	100	115
7	PSPC 35 – 10	650	325	65	134
8	PSPC 50 - 10	650	325	100	134






HOUSE OF PERFECT **50** YEARS OF LEGACY


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Perfect Engineers

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