

Customisation Options



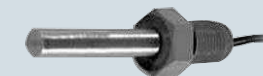
Mechanical Seal

Mechanical seals are engineered for the PST pump models to offer long lasting usage and prevent leakage for the Submersible pump in Sewage, Wastewater and Dewatering applications. MBH uses a double mechanical seal design for extra protection of the motor. Standard models have **tungsten carbide seal** on the pump end and carbon ceramic seal on the motor end. (Silicon carbide and Viton seals also available on request.)

Optional Features available on request

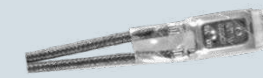
Moisture Sensor

The moisture sensor is used to detect moisture leakage through the mechanical seals. This occurs when the seal has been worn down or damaged. If moisture is found, the sensor will then trigger and transmit a signal to the control panel. The control panel will then set off a warning signal and/or power off to protect the pump motor.



Thermal Overload Sensor

Single phase : The overheat protector is an automatic cut-off switch built into the single phase motor designed to monitor the temperature of the inner motor. The switch automatically cuts off power if the motor temperature exceeds the maximum allowable operating temperature.



Three phase : The sensor is embedded in every phase of motor winding, and transmits a signal to the control panel. Control can be setup to cut off power when thermal sensor is activated.

Agitator

Blades underneath the pump's suction agitates, chops, cuts and shreds the incoming solids before they enter the impeller. The "chopper" eliminates or reduces the downtime of the pump and the system by preventing clogging of pump suction and pipelines.

Auto Coupling

One of the main reasons why MBH PST is the best choices in new projects for sewage and drainage handling is for its automatic connection type couplings provided with the pump. The single guide rail system is also cheaper compared to the two guide rail system.

- When the pump is lowered along with the guide pipe, it is automatically connected to the discharge pipe with discharge connection
- To remove the pump simply lift it upwards and out of the tank
- No bolt, nut or packing are required for the connection
- The automatic coupling system has simplified and lessened the maintenance. It is no longer necessary to enter the tank or evacuate the tank for removing the pump or loosening / tightening the bolts.



Float Switch

- Device used to detect level of liquid within tank
- Automatic operation of the pump is possible using float switch
- Float switch available with single phase models only



Accessories

Hose Pipe, Lifting Chain, Control Panel

PORTABLE SUBMERSIBLE

Range of Pumps

Versatile, really robust and definitely mobile



MBH® PUMPS

mbh pumps (gujarat) pvt. ltd.
Plot No. 14, G.I.D.C. Indl. Estate,
Naroda, Ahmedabad - 382 330, India.
+91-79-2282 3066, 2282 1018
marketing@mbhpumps.com
exports@mbhpumps.com
www.mbhpumps.com

Specifications and performance are subject to change without prior notice.
Images used are for illustration purpose only.

marq_05/2017

MBH® PUMPS

Portable Submersible Pump

one technology endless applications

When you are working against the clock to meet dewatering demands during floods, sewer clogging or drainage over flow, you need everything to go right. That is where the MBH PST comes into the picture. Having served the industry since 1969, we understand the gravity of issues caused by unwanted water and have designed best suitable pumps for various applications. Every detail is minutely looked after and accordingly products are designed for their dedicated industry.



Complete Stainless Steel Non-Clog Sewage Pump
(SS304, SS316, Sea Water Resistant Pump),
35mm Solid Handling

Cast Iron Dewatering Pump
(SS304, SS316, Sea Water Resistant Pump)

Light Weight Aluminium Dewatering pump

Inbuilt Agitator/Cutter/Grinder Non-clog Dewatering Pump

Pumps are available CI FG260, SS304, SS316, SS Duplex Steel, Aluminium. Various combination of MOC is also possible.

Drainage & Light Sewage Application

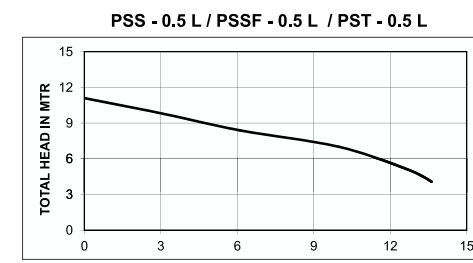
- Construction Dewatering
- Basement and Cellar Dewatering
- Commercial Waste Water
- Dewatering in heavy industries like, Power, Steel, Fertilizers, Cement
- Effluent Handling in Chemical and Process Industries
- Handling seepage water in Tunnels and Mines
- Kitchen Waste
- Sewage and Drainage applications for Railway Stations, Metro Rails, Ports & Airports, Hospitals and Hotels
- Rain water Dewatering

PERFORMANCE CHART

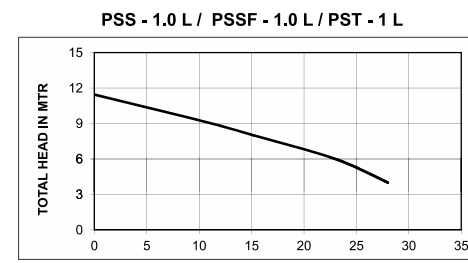
MODEL	HP/KW	PH	Solid Hadl. Size mm	Del. Size in mm	HEAD IN METERS																												Shut off in mtr.	Cable (in Sq. mm)
					Full Open	4	5	6	7	8	9	10	11	12	14	16	18	19	20	21	22	24	25	26	27	28	29	30	31	32				
PSS-0.5 L	0.5/0.37	1	25	50	260	225	215	210	166	110	150	50																				11	1 x 4 x 1	
PSS-1.0 L	1.0/0.75	1	25	50	550	466	425	385	320	255	200	130	90																		12	1 x 4 x 1		
PSS-1.5 L	1.5/1.1	1	25	50	600		520	475	440	400	345	260	190	100																	14	1 x 4 x 1		
PSS-2.0 L	2.0/1.5	1	35	75	700		650	600	560	525	480	430	340	250	150																16	1 x 4 x 1.5		
PSSF-0.5 L	0.5/0.37	1	25	50	260	225	215	210	166	110	150	50																			11	1 x 4 x 1		
PSSF-1.0 L	1.0/0.75	1	25	50	550	466	425	385	320	255	200	130	90																		12	1 x 4 x 1		
PSSF-1.5 L	1.5/1.1	1	25	50	600		520	475	440	400	345	260	190	100																	14	1 x 4 x 1		
PSSF-2.0 L	2.0/1.5	1	35	75	700		650	600	560	525	480	430	340	250	150																16	1 x 4 x 1.5		
PST-0.5 L	0.5/0.37	3	25	50	260	225	215	210	166	110	150	50																			11	1 x 4 x 1		
PST-1.0 L	1.0/0.75	3	25	50	550	466	425	385	320	255	200	130	90																		12	1 x 4 x 1		
PST-1.5 L	1.5/1.1	3	25	50	600		520	475	440	400	345	260	190	100																	14	1 x 4 x 1		
PST-2.0 L	2.0/1.5	3	35	75	700		650	600	560	525	480	430	340	250	150																16	1 x 4 x 1.5		
PST-3.0 L	3.0/2.2	3	35	75	750					700	650	600	550	500	450	400	250	160	150	140	80										22	1 x 4 x 1.5		
PST-5.0 M	5.0/3.7	3	35	75						1050	990	950	900	870	830	750	690	640	610	560	400	300	150								24	1 x 4 x 1.5		
PST-7.5 M	7.5/5.5	3	35	100						1360	1350	1320	1275	1250	1200	1130	990	750	580	530	480	330	200								26	1x4x2.5 (DOL) 1x7x1.5 (S/D)		
PST-7.5 H	7.5/5.5	3	10	100															1090	1030	970	900	880	830	780	590	480				27	1x4x2.5 (DOL) 1x7x1.5 (S/D)		
PST-10 M	10.0/7.5	3	35	100											1800	1700	1600	1500	1350	1150	1100	1050	900	800	550	480				29	1x4x2.5 (DOL) 1x7x1.5 (S/D)			
PST-10 H	10.0/7.5	3	10	100																			1160	1100	1050	990	960	940	850	780	690	500	29	1x4x2.5 (DOL) 1x7x1.5 (S/D)

* Float Switch provided in single phase

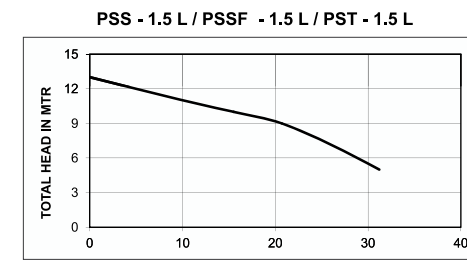
PERFORMANCE CURVES



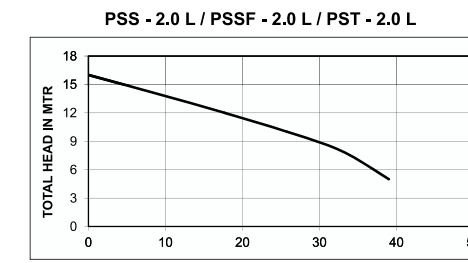
PSS - 0.5 L / PSSF - 0.5 L / PST - 0.5 L



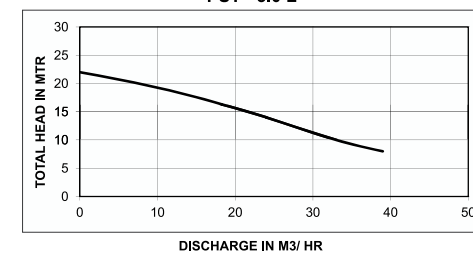
PSS - 1.0 L / PSSF - 1.0 L / PST - 1.0 L



PSS - 1.5 L / PSSF - 1.5 L / PST - 1.5 L



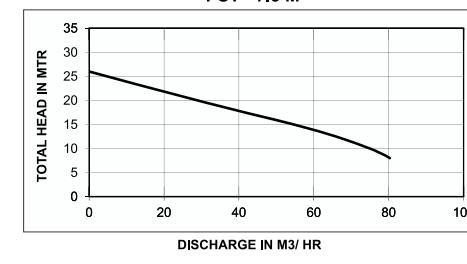
PSS - 2.0 L / PSSF - 2.0 L / PST - 2.0 L



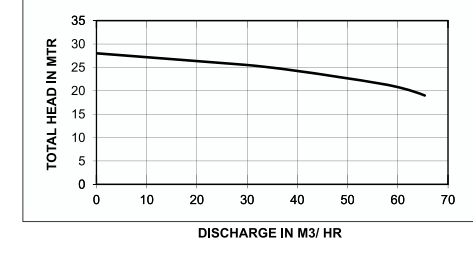
PST - 3.0 L



PST - 5.0 M



PST - 7.5 M



PST - 7.5 H



PST - 10.0 M

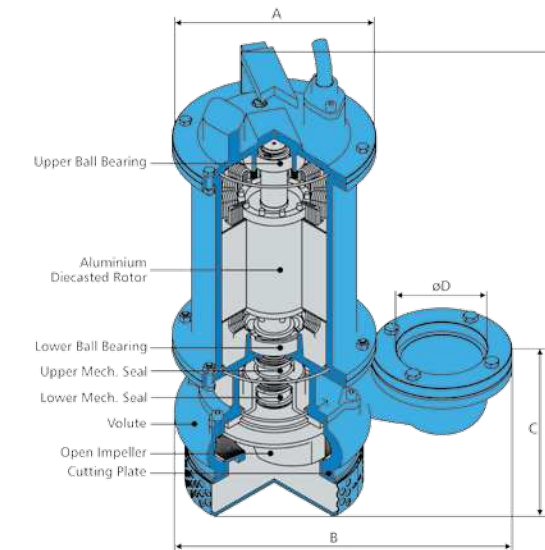


PST - 10.0 H

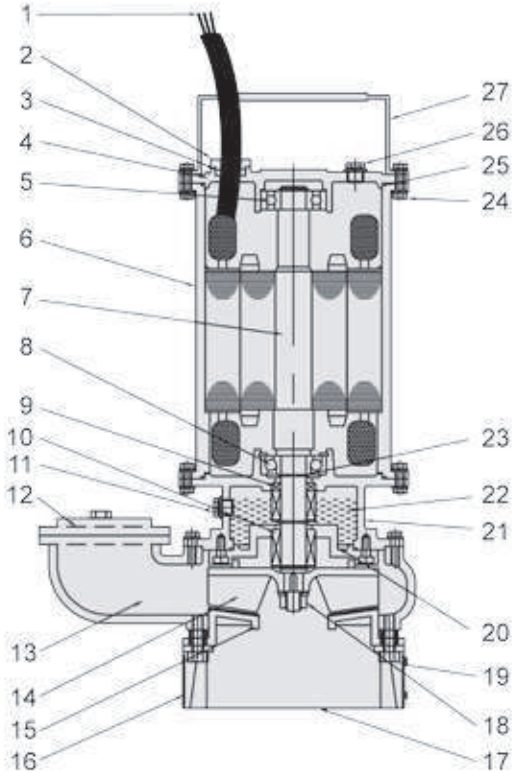
GA DRAWING DIMENSION

All Dimension are in mm

MODEL	HP	A	B	C	D	L	Weight (kg)	
							AL	CI
PSS0.5L	0.5	148	247	132	50	405	12	21
PSS1.0L	1.0	170	306	158	50	450	15	31
PSS1.5L	1.5	170	306	158	50	450	15	31
PSS2.0L	2.0	170	306	158	75	475	20	42
PSSF0.5L	0.5	148	247	132	50	405	12	21
PSSF1.0L	1.0	170	306	158	50	450	15	31
PSSF1.5L	1.5	170	306	158	50	450	15	31
PSSF2.0L	2.0	170	306	158	75	475	20	42
PST0.5L	0.5	148	247	132	50	405	13	21
PST1.0L	1.0	170	306	158	50	450	16	31
PST1.5L	1.5	170	306	158	50	450	16	31
PST2.0L	2.0	170	306	158	75	450	18	39
PST3.0L	3.0	185	306	158	75	521	22	42
PST5.0M	5.0	212	330	160	75	531	30	56
PST7.5M	7.5	247	435	171	100	589	43	89
PST7.5H	7.5	247	435	168	100	586	43	89
PST10M	10.0	247	435	171	100	639	50	100
PST10H	10.0	247	435	168	100	636	50	100

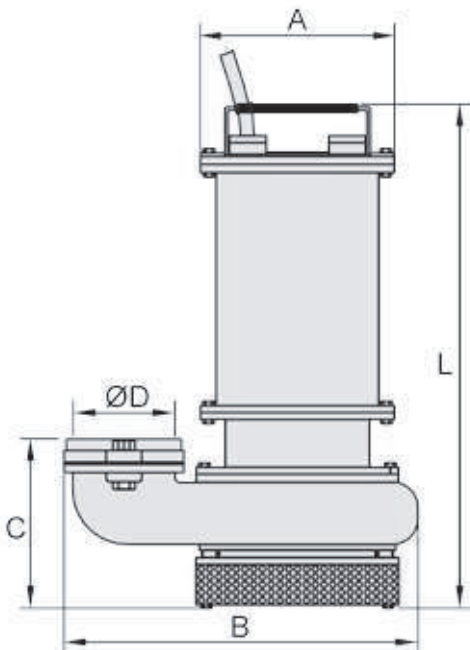


Cross Section



NO.	DESCRIPTION	MATERIAL
1	CABLE	PVC. INSU. SHEATHED
2	GLAND COVER	C.I. IS-210, FG260
3	CABLE GROMMET	NITRILE RUBBER
4	TOP COVER	C.I. IS-210, FG260
5	BALL BEARING (N.D.E.)	STD. MAKE
6	STATOR	C.I. IS-210, FG260+SI STA.
7	ROTOR SHAFT	S.S. 410
8	BALL BEARING (D.E.)	STD. MAKE
9	MECH. SEAL (UPPER)	CARBON / CR
10	MECH. SEAL (LOWER)	TC / TC
11	OIL PLUG	S.S.
12	DELIVERY FLANGE	C.I. IS-210, FG260
13	VOLUTE	C.I. IS-210, FG260
14	IMPELLER	C.I. IS-210, FG260
15	SPIRAL PLATE (WEAR PLATE)	C.I. IS-210, FG260
16	STRAINER	S.S.
17	BOTTOM PLATE	M.S.
18	IMPELLER LOCK NUT	S.S.
19	ADJUSTING SCREW	S.S.
20	MECH. SEAL COVER	C.I. IS-210, FG260
21	OIL CHAMBER	C.I. IS-210, FG260
22	OIL	HY. LUBE. MILCY-GR-40
23	EXTERNAL CIRCLIP	SPRING STEEL
24	HEX BOLT	S.S.
25	'O' RING	NITRILE RUBBER
26	PLUG	S.S.
27	PUMP HANDLE	S.S.

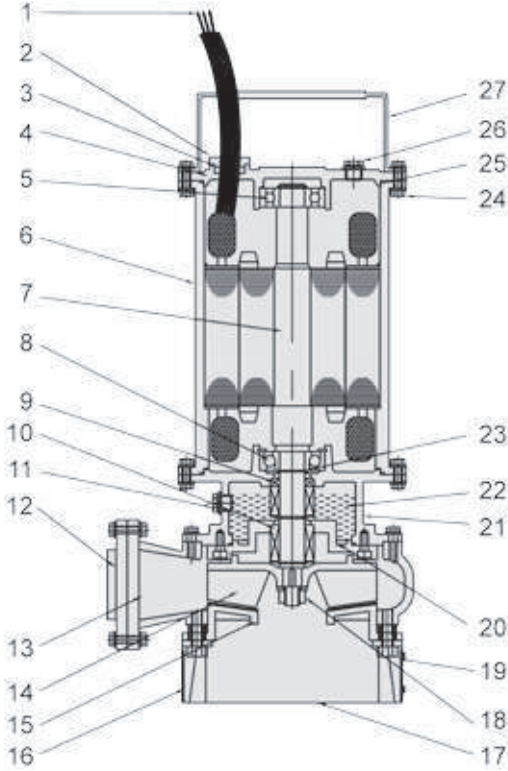
GA Drawing



All Dimension are in mm

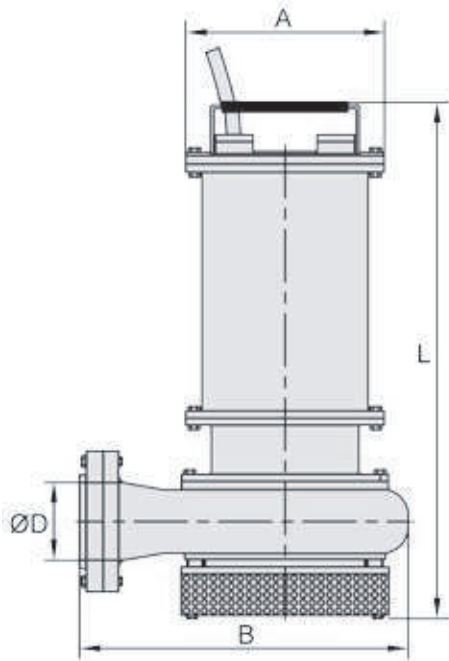
MODEL	HP	A	B	C	D	L	Weight in KG.	
							AL	CI
PSS0.5L	0.5	148	247	132	50	405	12	21
PSS1.0L	1.0	170	306	158	50	450	15	31
PSS1.5L	1.5	170	306	158	50	450	15	31
PSS2.0L	2.0	170	306	158	75	475	20	42
PSSF0.5L	0.5	148	247	132	50	405	12	21
PSSF1.0L	1.0	170	306	158	50	450	15	31
PSSF1.5L	1.5	170	306	158	50	450	15	31
PSSF2.0L	2.0	170	306	158	75	475	20	42
PST0.5L	0.5	148	247	132	50	405	13	21
PST1.0L	1.0	170	306	158	50	450	16	31
PST1.5L	1.5	170	306	158	50	450	16	31
PST2.0L	2.0	170	306	158	75	450	18	39
PST3.0L	3.0	185	306	158	75	521	22	42
PST5.0M	5.0	212	330	160	75	531	30	56
PST7.5M	7.5	247	435	171	100	589	43	89
PST7.5H	7.5	247	435	168	100	586	43	89
PST10M	10.0	247	435	171	100	639	50	100
PST10H	10.0	247	435	168	100	636	50	100

Cross Section - SD



NO.	DESCRIPTION	MATERIAL
1	CABLE	PVC. INSU. SHEATHED
2	GLAND COVER	C.I. IS-210, FG260
3	CABLE GROMMET	NITRILE RUBBER
4	TOP COVER	C.I. IS-210, FG260
5	BALL BEARING (N.D.E.)	STD. MAKE
6	STATOR	C.I. IS-210, FG260+SI STA.
7	ROTOR SHAFT	S.S. 410
8	BALL BEARING (D.E.)	STD. MAKE
9	MECH. SEAL (UPPER)	CARBON / CR
10	MECH. SEAL (LOWER)	TC / TC
11	OIL PLUG	S.S.
12	DELIVERY FLANGE	C.I. IS-210, FG260
13	VOLUTE	C.I. IS-210, FG260
14	IMPELLER	C.I. IS-210, FG260
15	SPIRAL PLATE (WEAR PLATE)	C.I. IS-210, FG260
16	STRAINER	S.S.
17	BOTTOM PLATE	M.S.
18	IMPELLER LOCK NUT	S.S.
19	ADJUSTING SCREW	S.S.
20	MECH. SEAL COVER	C.I. IS-210, FG260
21	OIL CHAMBER	C.I. IS-210, FG260
22	OIL	HYLUBE. MILCY-GR-40
23	EXTERNAL CIRCLIP	SPRING STEEL
24	HEX BOLT	S.S.
25	'O' RING	NITRILE RUBBER
26	PLUG	S.S.
27	PUMP HANDLE	S.S.

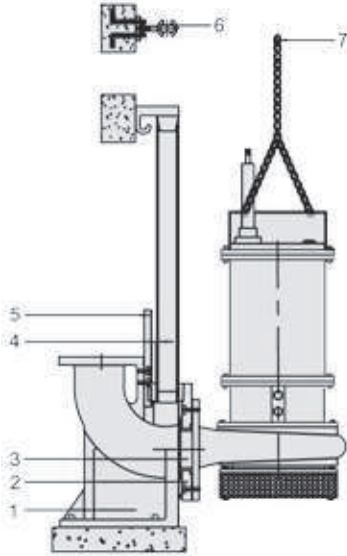
GA Drawing - SD



All Dimension are in mm

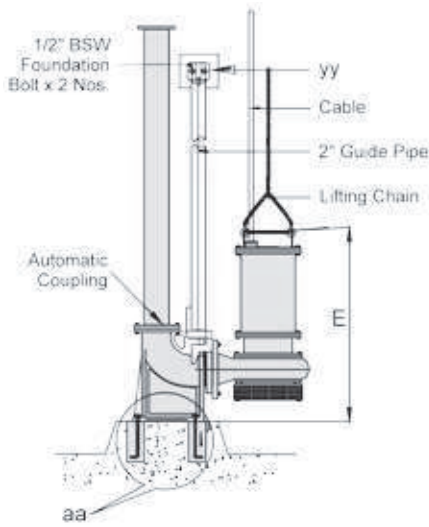
MODEL	HP	A	B	D	L	Weight in KG.	
						AL	CI
PSS0.5L-SD	0.5	148	238	50	405	12	21
PSS1.0L-SD	1.0	170	280	50	450	15	31
PSS1.5L-SD	1.5	170	280	50	450	15	31
PSS2.0L-SD	2.0	170	280	75	475	20	42
PSSF0.5L-SD	0.5	148	238	50	405	12	21
PSSF1.0L-SD	1.0	170	280	50	450	15	31
PSSF1.5L-SD	1.5	170	280	50	450	15	31
PSSF2.0L-SD	2.0	170	280	75	475	20	42
PST0.5L-SD	0.5	148	238	50	405	13	21
PST1.0L-SD	1.0	170	280	50	450	16	31
PST1.5L-SD	1.5	170	280	50	450	16	31
PST2.0L-SD	2.0	170	280	75	450	18	39
PST3.0L-SD	3.0	185	280	75	521	22	42
PST5.0M-SD	5.0	212	307	75	531	30	56
PST7.5M-SD	7.5	247	357	100	589	43	89
PST7.5H-SD	7.5	247	357	100	586	43	89
PST10M-SD	10.0	247	357	100	639	50	100
PST10H-SD	10.0	247	357	100	636	50	100

Auto Coupling Arrangement



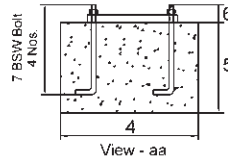
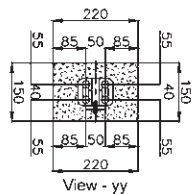
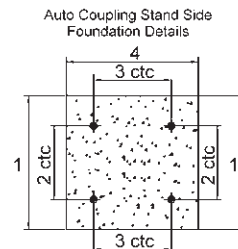
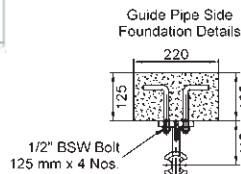
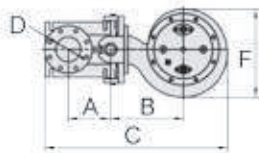
NO.	DESCRIPTION	MATERIAL
1	STAND	C.I. IS-210, FG260
2	FLANGE BRACKET	C.I. IS-210, FG260
3	RUBBER GASKET	NI. RUBBER
4	GUIDE PIPE	S.S. / C.S.
5	PIPE HOLDER	C.I.
6	PIPE BRACKET	C.I.
7	LIFTING CHAIN	S.S. / C.S.

Pump Installation Drawing



All Dimension are in mm

MODEL	HP	A	B	C	D	E	F
PSS0.5L-SD	0.5	135	186	488	50	449	169
PSS1.0L-SD	1	135	207	528	50	450	209
PSS1.5L-SD	1.5	135	207	528	50	450	209
PSS2.0L-SD	2	235	207	571	75	541	209
PST0.5L-SD	0.5	135	186	488	50	449	169
PST1.0L-SD	1	135	207	528	50	450	209
PST1.5L-SD	1.5	135	207	528	50	450 <td 209	
PST2.0L-SD	2	235	207	571	75	541	209
PST3.0L-SD	3	235	207	571	75	589	209
PST5.0M-SD	5	235	223	600	75	599	235
PST5.0H-SD	5	235	223	600	75	599	235
PST7.5M-SD	7.5	180	242	675	100	700	270
PST7.5H-SD	7.5	180	242	675	100	700	270
PST10M-SD	10	180	242	675	100	750	270
PST10H-SD	10	180	242	675	100	750	270



Discharge Flange Details in mm

Size	OD	PCD	Hole Ø	Hole Qty.
2"	80	79	8	2
3"	100	120	10	2
4"	220	180	18	8

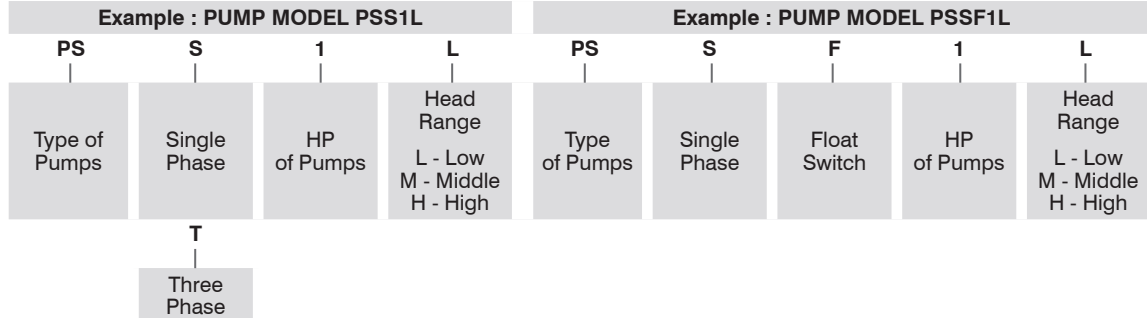
Discharge Flange Details in mm

Size	1	2	3	4	5	6	7
2"	285	145	187	350	140	35	1/2"-125L
3"	300	150	235	400	140	35	1/2"-125L
4"	328	160	240	420	290	60	5/8"-300L

MODEL	HP/KW	PH	Solid Had. Size mm	Del. Size in mm	HEAD IN METERS																												Shut off in mtr.	Cable (in Sq. mm)
					Full Open	4	5	6	7	8	9	10	11	12	14	16	18	19	20	21	22	24	25	26	27	28	29	30	31	32				
PSS-0.5 L	0.5/0.37	1	25	50	260	225	215	210	166	150	110	50																				11	1 x 4 x 1	
PSS-1.0 L	1.0/0.75	1	25	50	550	466	425	385	320	255	200	130	90																		12	1 x 4 x 1		
PSS-1.5 L	1.5/1.1	1	25	50	600		520	475	440	400	345	260	190	100																	14	1 x 4 x 1		
PSS-2.0 L	2.0/1.5	1	35	75	700		650	600	560	525	480	430	340	250	150																16	1 x 4 x 1.5		
PSSF-0.5 L	0.5/0.37	1	25	50	260	225	215	210	166	150	110	50																			11	1 x 4 x 1		
PSSF-1.0 L	1.0/0.75	1	25	50	550	466	425	385	320	255	200	130	90																		12	1 x 4 x 1		
PSSF-1.5 L	1.5/1.1	1	25	50	600		520	475	440	400	345	260	190	100																	14	1 x 4 x 1		
PSSF-2.0 L	2.0/1.5	1	35	75	700		650	600	560	525	480	430	340	250	150																16	1 x 4 x 1.5		
PST-0.5 L	0.5/0.37	3	25	50	260	225	215	210	166	150	110	50																			11	1 x 4 x 1		
PST-1.0 L	1.0/0.75	3	25	50	550	466	425	385	320	255	200	130	90																		12	1 x 4 x 1		
PST-1.5 L	1.5/1.1	3	25	50	600		520	475	440	400	345	260	190	100																	14	1 x 4 X 1		
PST-2.0 L	2.0/1.5	3	35	75	700		650	600	560	525	480	430	340	250	150																16	1 x 4 x 1.5		
PST-3.0 L	3.0/2.2	3	35	75	750				700	650	600	550	500	450	400	250	160	150	140	80											22	1 x 4 x 1.5		
PST-5.0 M	5.0/3.7	3	35	75					1050	990	950	900	870	830	750	690	640	610	560	400	300	150									24	1 x 4 x 1.5		
PST-7.5 M	7.5/5.5	3	35	100					1360	1350	1320	1275	1250	1200	1130	990	750	580	530	480	330	200									26	1x4x2.5 (DOL) 1x7x1.5 (S/D)		
PST-7.5 H	7.5/5.5	3	10	100																											27	1x4x2.5 (DOL) 1x7x1.5 (S/D)		
PST-10 M	10.0/7.5	3	35	100																											29	1x4x2.5 (DOL) 1x7x1.5 (S/D)		
PST-10 H	10.0/7.5	3	10	100																												29	1x4x2.5 (DOL) 1x7x1.5 (S/D)	



MODEL IDENTIFICATION



Performance Chart

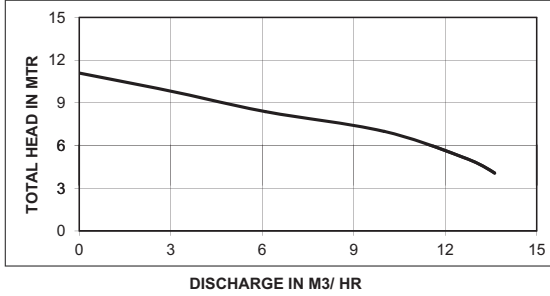


Portable Submersible Pumps

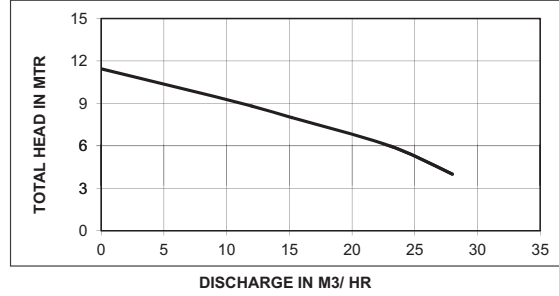
Portable Submersible Pumps

Performance Curves (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

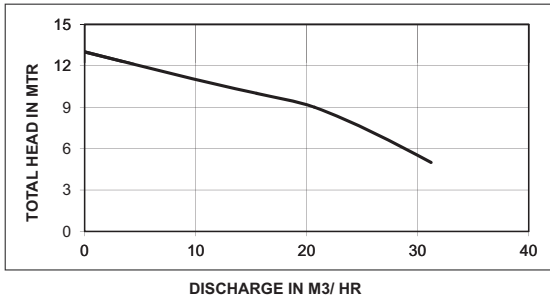
PSS - 0.5 L / PSSF - 0.5 L / PST - 0.5 L



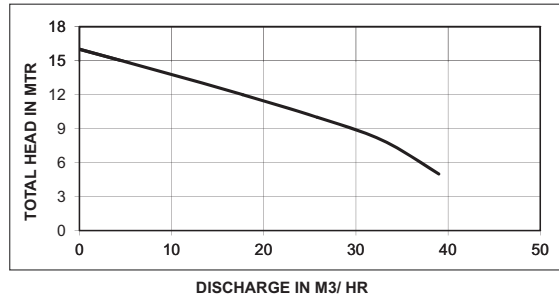
PSS - 1.0 L / PSSF - 1.0 L / PST - 1 L



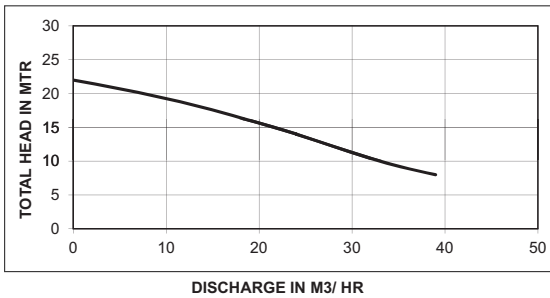
PSS - 1.5 L / PSSF - 1.5 L / PST - 1.5 L



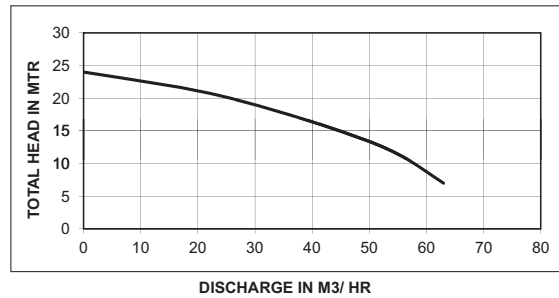
PSS - 2.0 L / PSSF - 2.0 L / PST - 2.0 L



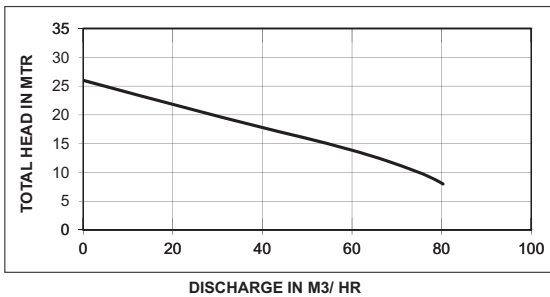
PST - 3.0 L



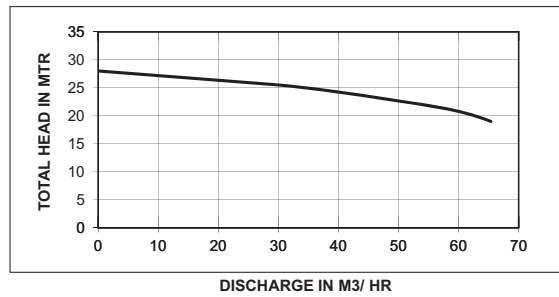
PST - 5.0 M



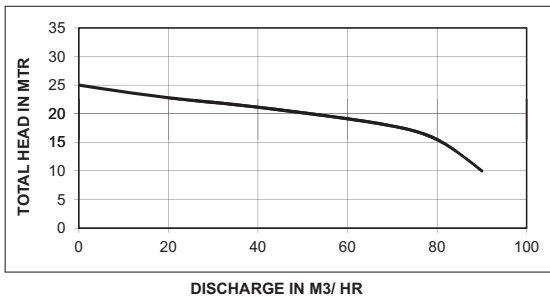
PST - 7.5 M



PST - 7.5 H



PST - 10.0 M



PST - 10.0 H

