



SELF-PRIMING NON-CLOG MONOBLOCK SMB SERIES

(Single stage, Horizontal, Centrifugal, Self-priming, Monobloc Pump)

C.R.I. "SMB Series" Self-priming non-Clog Monoblock Pump's volute chamber and impellers are designed to give the best possible hydraulic efficiency and suction lift characteristics. These pumps are powered by a totally enclosed fan cooled A.C. induction motor. Motor stator is made of low watt loss silicon steel laminations assembled under pressure and rigidly locked in the frame. Construction of motor frames and usage of quality materials result in high performance and low temperature rise thereby increasing the life cycle of the motor.



FEATURES

- ◆ Quick automatic Self-priming function no need for footvalve
 ◆ Back-pull out type for easy maintenance
- ◆ Dynamically balanced rotating parts ◆ Withstand wide voltage fluctuations.

APPLICATIONS

 + Pumping of Domestic Sewage (Polluted water, Effluent, Storm water) → Industrial Waste Water (Effluent, Sewage, ash-water etc) → Water from Marine (Docks, Ports and Vessels) → Dewatering from Construction (Foundation, Trenches and Pits)

MATERIALS OF CONSTRUCTION

Part Name		Material
Motor Body (Motor Frame)	:	Cast-Iron
Pump Casing	:	Cast-Iron
Impeller& wear plate	:	Cast-Iron / S.S
Shaft	:	S.S
Shaft sleeve	:	Bronze
Mechanical seal		Ceramic with carbon

TECHNICAL DATA

The SMB Series pumps are non-clog, self-priming, and horizontal centrifugal pump with mechanical shaft seal (1HP) and stuffing box type (2HP, 3HP & 5HP).

SPECIFICATIONS

Phase	Single Phase - 2 Pole - Incorporated with thermal cutout relay									
Speed	T/SMB & SMB 140, 240 & 350 : 2880 rpm T/SMB 580 : 1440 rpm									
Versions	A.C, 50Hz, Single/Three Phase 200-240V Permanent Split Capacitor (CSR)									
Degree of protection	IP 44									
Insulation Class	В									
Direction of Rotation	T/SMB 140/240/350 - Clockwise viewed from driving end T/SMB 580 - Anti Clockwise viewed from driving end									
Type of Duty	S1 (Continuous)									
Sealing	SMB 140 Mechanical seal arrangement T/SMB 240,350 & 580 : Stuffing box arrangement									
Enclosure	TEFC									

PERFORMANCE TABLE

Approximate Performance Data at 50 Hz, Single-Phase 220/240 Volts (or) Three Phase 380/415 Volts, AC Supply

					TOTAL HEAD IN METRES / FEET										
HP / kW	PUMP	rpm	PIPE SIZE	6	8	10	12	14	16	18	20	22	24	SOLID	
TP / KVV	MODEL	Ιριιι	IN mm (SUC. X DEL.)	19.5	26	33	39	46	52.5	59	65.5	72	78	HANDLING SIZE IN mm	
			(SOC. A DEE.)				ISCHAR	GE IN LI	TRES PE	R MINU	ГЕ			3121 111 111111	
1.0 / 0.75	SMB-140	2880	40 x 40	270	240	198	144	96						7.0	
1.0 / 0.75	T/SMB-140	2000	10 X 10	270	210	130	1	30			0 1			7.0	
2.0 / 1.5	SMB-240	2880	40 x 40			336	300	246	180	84				8.5	
2.0 / 1.5	T/SMB-240														
3.0 / 2.2	T/ SMB-350	2880	50 x 50			510	480	444	390	324	252	168	60	10.5	
	, -	1440	80 x 80			1050	930	750	480	204				15.5	
NOTE: Performance applicable to liquid of specific gravity 1.02 and viscosity as of water.												/ / / /			

Pumping Solutions, Engineered.





SELF-PRIMING NON-CLOG PUMP SP SERIES

(Single stage, Horizontal, Centrifugal, Self-priming, Pump)

C.R.I. "SP Series" Self-Priming Non-Clog Pump's volute chamber and impellers are designed to give the best possible hydraulic efficiency and suction lift characteristics. These pumps feature quick Self-Priming action, back pullout design for easy maintenance. Usage of good quality, appropriate prime mover results in high performance thereby increasing the life cycle of the pump. These pumps are available with CI / SS/ Bronze impeller. Separate models available for motor driven and engine drive.



FEATURES

- Quick automatic Self-priming function no need for foot valve → Back-pull out type for easy maintenance
- → Dynamically balanced rotating parts → Withstand wide voltage fluctuations

APPLICATIONS

 Pumping of Domestic Sewage (Polluted water, Effluent, Storm water) → Industrial Waste Water (Effluent, Sewage, ash-water etc) → Water from Marine (Docks, Ports and Vessels) → Dewatering from Construction (Foundation, Trenches and Pits)

TECHNICAL DATA

The SP Series pumps are non-clog, self-priming, and horizontal centrifugal pump with mechanical shaft seal (1HP) and stuffing box type (2HP, 3HP & 5HP).

SPECIFICATIONS

Power	:	1.5 kW – 3.7 kW
Speed	:	2880 rpm & 1440 rpm
Type of Duty	:	S1 (Continuous)
Sealing	:	Stuffing box arrangement

MATERIAL OF CONSTRUCTION

Part Name		Material
Pump Casing	:	Cast-Iron
Impeller & wear plate	:	Cast-Iron
Shaft	:	S.S
Shaft sleeve	:	Bronze
Mechanical seal	:	Ceramic with carbon

PERFORMANCE TABLE

Approximate Performance Data at 50 Hz, Single-Phase 220/240 Volts (or) Three Phase 380/415 Volts, AC Supply

	TOTAL HEAD IN METRES / FEET														///////			
LID / LAA/	PUMP	rpm	PIPE SIZE	6	8	10	12	14	16	18	20	22	24	26	28	30	32	SOLID
HP / kW	MODEL	тріп	IN mm (SUC. X DEL.)	19.5	26	33	39	46	52.5	59	65.5	72	78	85.3	91.8	98.4	104.9	HANDLING SIZE IN mm
			(SSC: A SEE)					DIS	CHAR	GE IN	LITRE	S PEF	RMIN	NUTE				SIZE IN IIIII
2.0 / 1.5	SP-240/2P	2880	40 x 40			336	300	246	180	84								8.5
3.0 / 2.2	SP-350/2P	2880	50 x 50			510	480	444	390	324	252	168	60					10.5
5.0 / 3.7	SP-580/4P	1440	80 x 80			1050	930	750	480	204								15.5
5.0 / 3.7	SP-580/2P	2880	80 x 80								630	570	504	420	312	234	114	7.0

NOTE: Performance applicable to liquid of specific gravity 1.02 and viscosity as of water.

C.R.I. PUMPS PRIVATE LIMITED