

# SDR

## SUBMERSIBLE SEWAGE PUMPS



### APPLICATIONS

INDUSTRIAL : Pumping Effluent, Water, Storm Water  
 PUBLIC UTILITIES : Sewage, Storm Water Pumping  
 MARINE : Pumping water from Docks, Ports, Vessels  
 CIVIL : Dewatering foundations, Construction Trenches and Pits

### FEATURES

The pumps are portable and self priming. Fitted with Electric Motors in Monoblock design. Sealed with double mechanical seal. Ideal for pumping contaminated liquids with fine solids, sands or such other liquids. Non clogging design. rubber lined wearing parts. Heavy duty bearing. Built - in overload protection. Supplied with 20 mtr. ( ± 1 Mtr.) cable as standard.

### COOLING SYSTEM

The pumped liquid passes through a chamber surrounding the Electric Motor and goes up to the delivery passage of the pump. The heat generated by the motor carried away by liquid during pumping / Designed for continuously working at rated output.

### STANDARD MATERIALS OF CONSTRUCTION

Impeller : SS - 304 (available in other materials )  
 Shaft : SS - 304  
 Diffuser : Rubber Lined  
 Wear Plate : Rubber Lined  
 Motor : Suitable for 415 ( ± 10% ) Volts, 50Hz / 3ph power supply.  
 Available for different voltage range.

### MECHANICAL SEAL

Two mechanical seals are independent of each other for sealing the Electric Motor and are lubricated by oil.

UPPER SEAL : Carbon Vs Ceramic  
 LOWER SEAL : TC Vs TC

### BEARING

Deep groove heavy duty ball bearings are used and are lubricated by grease on top, bottom by oil. In higher models angular contact thrust bearings are used.

### OIL CHAMBER

Oil in the Chamber lubricates Mechanical seal hence life of the Mechanical Seals are enhanced.  
 Air on top of the cooling Chamber prevents excessive pressure rise in Air Chamber.

### INSTALLATION

The pumps can be easily installed in either STANDING POSITION or SUSPENDED.

### PERFORMANCE TABLE

SPEED : 2900 RPM

Model	Del. Size mm	Size of Solid mm	Head in Meters V/s. Discharge in LPM											Motor HP / kW	Weight Kgs. (Approx.)	Dimensions W x H in mm	
			5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	30.0	40.0				
SDR -10	50	8	300	220	150	70									1 / 0.75	16	210 x 470
SDR-15	50	8	430	360	280	220	110								1.5 / 1.1	28	210 x 470
SDR-20	65	8	550	400	375	300	135								2 / 1.5	32	260 x 600
SDR-30	80	8	875	700	600	500	300								3 / 2.2	48	260 x 600
SDR-50	80	12	1300	1100	1000	850	650	450	225						5 / 3.7	50	450 x 680
SDR-75	80	14	1450	1300	1200	1000	875	750	550	375					7.5 / 5.5	67	450 x 680
SDR-100A	80	14			1800	1500	1250	1050	850	625					10 / 7.5	72	450 x 680
SDR-100B	80	14						1650	1500	1350	900	800			10 / 7.5	75	450 x 680
SDR-250	150	20						3600	3400	3300	3100	2600	2400	900	25 / 18.5	165	655 x 745

# MDR SUBMERSIBLE SEWAGE PUMPS



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## STANDARD MATERIALS OF CONSTRUCTION

- Impeller : SS - 304 ( available in other materials )
- Shaft : SS - 410
- Wear Plate : FG - 200
- Motor : Suitable for 415 ( ± 10% ) Volts, 50Hz / 3ph power supply. Available for different voltage range.

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Deep groove heavy duty ball bearings are used and are lubricated by grease on top, bottom by oil. In higher models angular contact thrust bearings are used.

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MDR -10	50	8	300	220	150	70									1 / 0.75	24	210 x 470
MDR-15	50	8	375	320	265	180									1.5 / 1.1	25	210 x 470
MDR-15(1PH)	50	30	285	160	60										1.5 / 1.1	25	260 x 510
MDR-20	50	8	550	400	375	300	135								2 / 1.5	32	260 x 600
MDR-30	50	8	600	525	430	350	200								3 / 2.2	48	260 x 600
MDR-50	80	20	1000	950	900	835	740	600	475	300					5 / 3.7	60	336 x 538
MDR-75	80	14	1450	1300	1200	1000	875	750	550	375					7.5 / 5.5	80	450 x 680
MDR-100A	80	14			1800	1500	1250	1050	850	625					10 / 7.5	99	450 x 680
MDR-100B	80	14					1450	1400	1305	900	800	600			10 / 7.5	99	450 x 680
MDR-250	150	20					3600	3400	3300	3100	2600	2400	900		25 / 18.5	220	655 x 745

A Solution to your problems not just a pump.

## PUMP ENGINEERING CO. PVT. LTD.



ISO 9001 : 2000

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THE STRENGTH OF PUMPING