



# MAKE A CLEAN JOB OF IT.



WASTE WATER SUBMERSIBLE PUMPS - 50Hz DL, SL, MS & MP SERIES



## THEBEGINNING

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an in-house foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 1800 varieties of perfectly engineered pumps and motors and sells its products in numerous countries spread across 6 continents.

## C.R.I.IS ONE AMONG

the few pioneers in the world to produce 100% stainless steel submersible pumps. Having achieved a record production capacity of over 2 million pumps per annum, today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

## THEINFRASTRUCTURE

of C.R.I. is pretty comprehensive with state-of-the-art machineries and high potential in-house R&D recognised by the ministry of science and technology, Govt. of India - all within its own covered area of 300,000 square metres. The production environment is accredited with ISO 9001 & 14001 certifications and the products are CE, UR/UL, IEC, TSE & ISI certified. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.

# NEEDLESS TO SAY,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos: "Commitment, Reliability, Innovation".





### Vision, Mission and Values

To be the industry leader providing best - in - class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of commitment, reliability and innovation.

# CONTENTS

#### WASTE WATER SUBMERSIBLE PUMPS - 50Hz Description, Features & Applications 3 Model Identification Code - MS & MP Series / DL & SL Series 4 MS & MP SERIES 5 Specification, MOC & Applications 6 Performance Curve & Data - MS Series 7 Performance Curve & Data - MP Series DL, SL & SLC SERIES Specification, MOC & Liquid Characteristics 8 Performance Curve & Data - DL Series 9-10 11-12 Performance Curve & Data - SL Series Performance Curve & Data - SLC Series 13 DLS, SLS & SLSC SERIES Specification, MOC & Characteristics 14 Performance Curve & Data - DLS Series 15 Performance Curve & Data - SLS Series 16-17 Performance Curve & Data - SLSC Series 18 Impeller type 19 20 Notes



# C.R.I. WASTE WATER SUBMERSIBLE PUMPS

With the excellence gained in pump technology over the period of 50 years C.R.I. has introduced highly efficient and reliable sewage & drainage pumps in a comprehensive range. These pumps are available with different materials of construction and feature a multitude of applications in waste water handling and treatment.

Besides expanding its product portfolio, C.R.I. is firmly committed to contribute a vital role in creating a more pleasant an affluent living condition world wide, which is one among its ambitious goal.

All C.R.I. drainage & sewage pumps are perfectly powered by motor designed to deliver optimal performance and to with stand vagaries of weather and power fluctuation.

C.R.I. 's well equipped R&D coupled with the latest engineering software & technology, highly flexible production facilities, stringent, integrated & modern quality control systems well tuned logistics system & steadfast work force ensure delivery of high standard and flawless products. Proven performance, functional design, quality and after sales support ensure trouble free operation year after year.

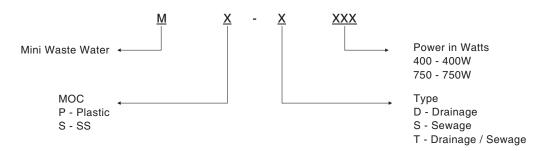
#### Salient Features

I Heavy duty bearings I High efficiency copper wound motor I In built capacitor for single phase and contactor for three phase which eliminates starter / control box (DL & SL - Series) I Safe and quite operation I Most reliable and hard wearing I Tailor – made designs I Multipurpose applications I Easy and cost effective serviceability

## **Applications**

I Draining sewage water from hotels, houses, commercial buildings, complexes etc. I Pumping waste water in industries I Tunnels and mines I Pumping sewage water from stock farm and manhole sewer I Sewage treatment plants I Pumping municipal sewage water I Septic tanks I Leather factories

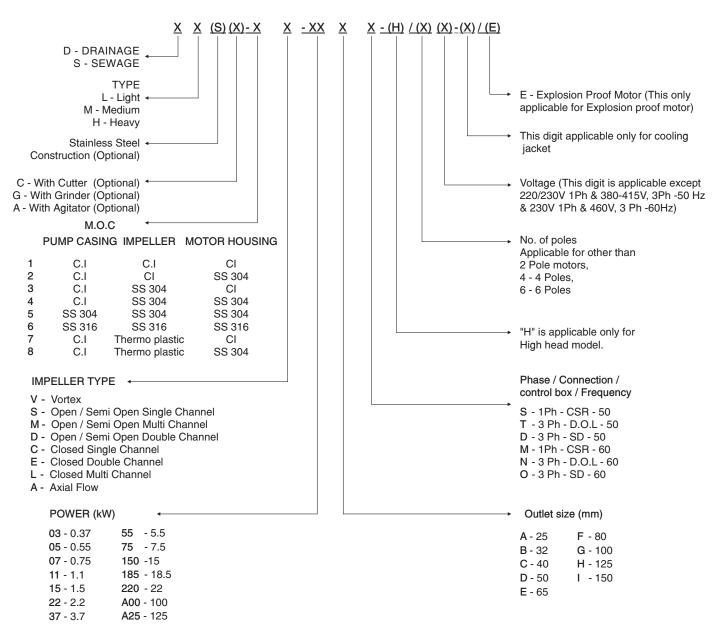
## Model Identification Code - MS & MP - Series



#### Description

MS-S550-550Watts, 1Ph, 230V, 50Hz, Mini Sewage Submersible Pump

## Model Identification Code - DL & SL - Series



#### Description

SLSC - 5V - 15ET : 1.5 kW - 3 Phase Stainless steel Light Sewage Pump with Cutter SS Vortex Impeller.

# MS & MP - SERIES

### **Technical Specification**

Power Range	400 to 1100 Watts
Version	Single Phase 230V, 50Hz, A.C. Supply
Degree of Protection	IP 68
Insulation Class	E
Delivery Size	MS - D : 1¼", MS - S : 1½", MP - T : 1½"
Max. Ambient temp.	40°C
Max. liquid temp.	35°C
pH value	6 -8.5
Max. immersible depth	5m

#### Material of Construction

	MS Series	MP Series
Pump body	Stainless Steel	Plastic
Impeller	Thermoplastic	Thermoplastic
Shaft	S.S 304	S.S 304
Pump casing	Stainless Steel	Plastic
Mechanical Seal	Carbon Ceramic	Carbon ceramic

### **Applications**

Residential drainage and sewage

Gardening

De-watering

# Mini Sewage & Drainage Pumps - MS Series (SS Pump & Motor Body)

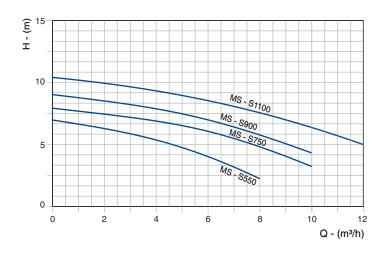


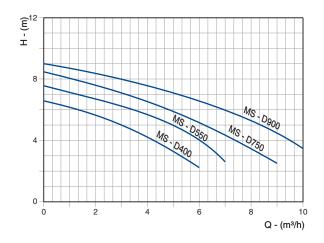
**SEWAGE** 



**DRAINAGE** 

#### Performance Curves & Data



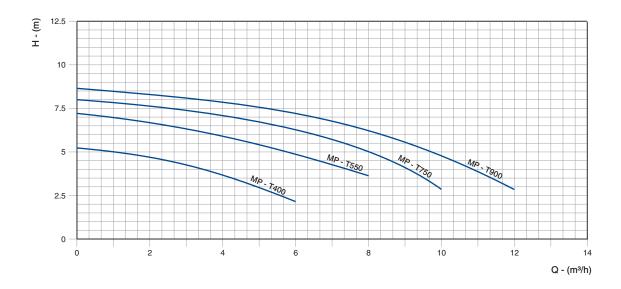


	Model Por (Wa		Outlet Size	Solid Handling Capacity (mm)	Max. Flow (m³/h)	Max. Head (m)	Weight (kg)
	MS - S550	550	1½"	25	8	7	6
Sewage	MS - S750	750	1½"	25	10	8	6.3
Sew	MS - S900	900	1½"	25	10	9	7
	MS - S1100	1100	1½"	25	12	10.5	7.8
	MS - D400	400	1¼"	5	6	6.5	5
nage	MS - D550	550	1¼"	5	7	7.5	5.5
Drainage	MS - D750	750	1¼"	5	9	8.5	5.6
	MS - D900	900	11/4"	5	10	9	5.8

# Mini Drainage Pumps - MP Series (Plastic Pump & Motor Body)



#### Performance Curves & Data



Model	Power (Watts)	Outlet Size	* Solid Handling Capacity (mm)	Max. Flow (m³/h)	Max. Head (m)	Weight (kg)
MP - T400	400	1½"	25	6	5.5	4
MP - T550	550	1½"	25	8	7	4.5
MP - T750	750	1½"	25	10	8	5
MP - T900	900	1½"	25	12	8.5	5.5

<sup>\*</sup> With legs unfolded condition.

# DL, SL & SLC - SERIES

## **Technical Specification**

		Drainage Pumps DL - Series	Sewage Pumps SL - Series	Sewage with Cutter SLC - Series	
Power Range	Single Phase	0.37 -2.2 kW	0.55 - 1.5 kW	1.1 - 1.8 kW	
	Three Phase	0.37 -2.2 kW	1.1 - 1.5 kW	1.1 - 1.8 kW	
Speed		2900 rpm	2900 rpm	2900 rpm	
Version	Single Phase	230V - 50Hz A.C. Supply	230V - 50Hz A.C. Supply	230V - 50Hz A.C. Supply	
	Three Phase	380 - 415V - 50Hz A.C. Supply	380 - 415V - 50Hz A.C. Supply	380 - 415V - 50Hz A.C. Supply	
Degree of Protection		IP 68	IP 68	IP 68	
Insulation Class		E/B	E	В	
Motor Type		Dry - type	Dry - type	Dry - type	
Duty		S1 (Continuous)	S1 (Continuous)	S1 ( Continuous)	
Direction of Rotation		Clockwise	Clockwise	Clockwise	
Max. Immersion Depth		5m	5m	5m	
Sealing		Mechanical Seal	Mechanical Seal	Mechanical Seal	
Impeller Type		Closed Multi Channel Semi Open Double Channel	Closed Double Channel Semi Open Double Channel Semi Open Multi Channel	Vortex Semi Open Double Channel	
Max. Ambient Temp.		40°C	40°C	40°C	

#### Material of Construction

	DL, SL & SLC - Series
Top Cover	Cast Iron
Motor Housing	S.S 304
Impeller	Cast Iron / PPO
Pump Casing	Cast Iron
Rotor Shaft	S.S
Mechanical Seal	Carbon & Ceramic

### Liquid Characteristics

Maximum liquid temperature	40°C
pH Value	6 - 8.5 (DL-Series) 4 - 10 (SL & SLC Series)
Available Delivery Size	1", 1½", 2", 2½" & 3"

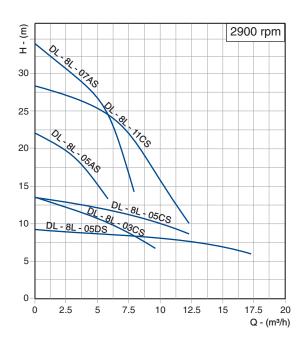
# Drainage Pumps - DL Series

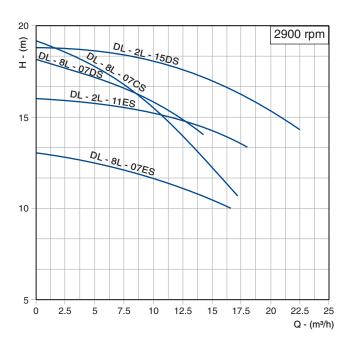




Impeller type	Impeller mtrl.
Closed Multi Channel	Cast Iron / PPO

#### Performance Curves & Data





Mo	del	Outlet	Motor	Power	Rated	Rated	Max.	Approx.
Single Phase	Three Phase	Size (mm)	kW	HP	Head (m)	Flow (m³/h)	Head (m)	Weight (kg)
DL - 8L - 03CS	DL - 8L - 03CT	40	0.37	0.5	10	6	13	12
DL - 8L - 05AS	DL - 8L - 05AT	25	0.55	0.75	19	3	22	15
DL - 8L - 05CS	DL - 8L - 05CT	40	0.55	0.75	10	10	13	16
DL - 8L - 05DS	DL - 8L - 05DT	50	0.55	0.75	7	15	9	16.5
DL - 8L - 07AS	DL - 8L - 07AT	25	0.75	1	27	5	34	17
DL - 8L - 07CS	DL - 8L - 07CT	40	0.75	1	17	7	19	17.5
DL - 8L - 07DS	DL - 8L - 07DT	50	0.75	1	16	10	18	17.5
DL - 8L - 07ES	DL - 8L - 07ET	65	0.75	1	11	15	13	18
DL - 8L - 11CS	DL - 8L - 11CT	40	1.1	1.5	24	6	28	19.5
DL - 2L - 11ES*	DL - 2L - 11ET*	65	1.1	1.5	14.5	15	16	19.5
DL - 2L - 15DS*	DL - 2L - 15DT*	50	1.5	2	17	15	18.5	22

Only single phase pumps are provided with float switch.

<sup>\*</sup> Cast iron impeller.

# Drainage Pumps - DL Series







DL - 2D - 22FS

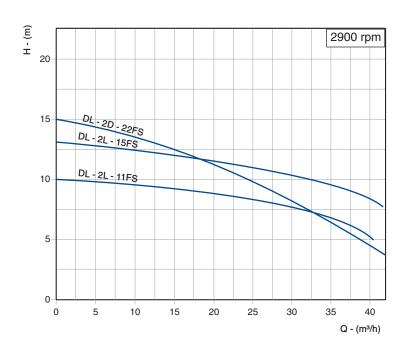
#### DL - 2L - 11FS & DL - 2L - 15FS

Impeller type	Impeller mtrl.
Closed Multi Channel	Cast Iron

#### DL - 2D - 22FS

Impeller type	Impeller mtrl.
Semi Open Double Channel	Cast Iron

#### Performance Curves & Data



Mod	Model		Motor	Power	Rated	Rated	Max.	Approx.
Single Phase	Three Phase	Size (mm)	kW	HP	Head (m)	Flow (m³/h)	Head (m)	Weight (kg)
DL - 2L - 11FS	DL - 2L - 11FT	80	1.1	1.5	7	35	10	21.5
DL - 2L - 15FS	DL - 2L - 15FT	80	1.5	2	9.5	35	13	23.5
DL - 2D - 22FS	DL - 2D - 22FT	80	2.2	3	6.5	35	15	35

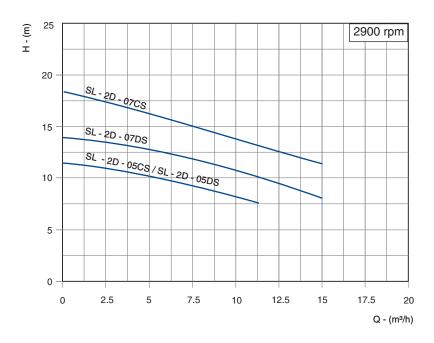
Only single phase pumps are provided with float switch.

# Sewage Pumps - SL Series



Impeller type	Impeller mtrl.
Semi Open Double Channel	Cast Iron

#### Performance Curves & Data



Model	Outlet	Motor	Power	Solid Handling	Rated	Rated	Max.	Approx.
Single Phase	Size (mm)	kW	HP	Capacity (mm)	Head (m)	Flow (m³/h)	Head (m)	Weight (kg)
SL - 2D - 05CS	40	0.55	0.75	25	8	10	11.5	20.5
SL - 2D - 05DS	50	0.55	0.75	35	8	10	11.5	20.5
SL - 2D - 07CS	40	0.75	1	25	16	6	18	22
SL - 2D - 07DS	50	0.75	1	35	11	10	14	22

The above pump models will be supplied with base plate for proper seating.

# Sewage Pumps - SL Series





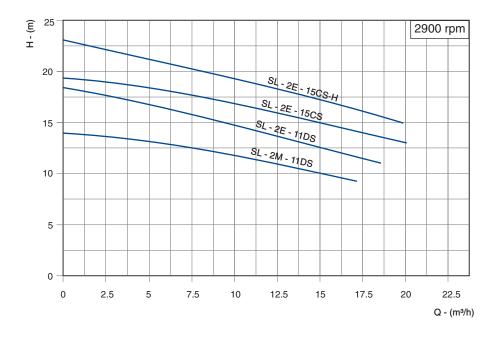
SL - 2N - 11DS

Impeller type	Impeller mtrl.
Semi Open Multi Channel	Cast Iron

SL - 2E - 11DS-H, SL - 2E - 15CS & SL - 2E - 15CS-H

Impeller type	Impeller mtrl.
Closed Double Channel	Cast Iron

#### Performance Curves & Data



Mo	del	Outlet	Motor	Power	Solid Handling	Rated	Rated	Max.		orox. nt (kg)
Single Phase	Three Phase	Size (mm)	kW	HP	Capacity (mm)	Head (m)	Flow (m³/h)	Head (m)	1Ph	3Ph
SL - 2M - 11DS	SL - 2M - 11DT	50	1.1	1.5	35	10	15	14	24.5	23
SL - 2E - 11DS	SL - 2E - 11DT	50	1.1	1.5	35	16	8	18	24	22.5
SL - 2E - 15CS	SL - 2E - 15CT	40	1.5	2	25	15	15	19	27.5	26
SL - 2E - 15CS-H	SL - 2E - 15CT-H	40	1.5	2	25	20	8	23	27	25.5

The above pump models will be supplied with base plate for proper seating. Only single phase pumps are provided with float switch.

# Sewage Pumps With Cutter - SLC Series



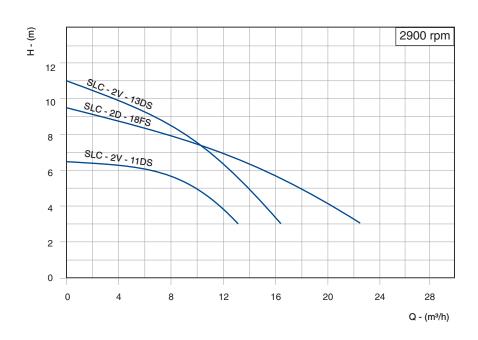
SLC - 2V - 11DS & SLC - 2V - 13DS

mpeller type	Impeller mtrl.
Vortex	Cast Iron

SLC - 2V - 18FS

Impeller type	Impeller mtrl.
Semi Open Double Channel	Cast Iron

#### Performance Curves & Data



Mo	odel	Outlet Motor Power		Rated	Rated	Max.	Approx.	
Single Phase	Three Phase	Size (mm)	kW	HP	Head (m)	Flow (m³/h)	Head (m)	Weight (kg)
SLC - 2V - 11DS	SLC - 2V - 11DT	50	1.1	1.5	5	10	6.5	22.5
SLC - 2V - 13DS	SLC - 2V - 13DT	50	1.3	1.75	7	11	11	25
SLC - 2D - 18FS	SLC - 2D - 18FT	80	1.8	2.4	6	15	9.5	35

Only single phase pumps are provided with float switch.

## STAINLESS STEEL

# **DLS, SLS & SLSC - Series**

### **Technical Specification**

		Drainage Pumps DLS - Series	Sewage Pumps SLS - Series	Sewage with Cutter SLSC - Series
Power Range	Single Phase	0.37 - 1.1 kW	0.55 - 2.2 kW	1.1 - 1.5 kW
	Three Phase	0.37 - 1.1 kW	0.55 - 2.2 kW	1.1 - 1.5 kW
Speed		2900 rpm	2900 rpm	2900 rpm
Version	Single Phase	230V - 50Hz A.C. Supply	230V - 50Hz A.C. Supply	230V - 50Hz A.C. Supply
	Three Phase	380 - 415V - 50Hz A.C. Supply	380 - 415V - 50Hz A.C. Supply	380 - 415V - 50Hz A.C. Supply
Degree of Protection		IP 68	IP 68	IP 68
Insulation Class		В	В	В
Motor Type		Dry - type	Dry - type	Dry - type
Duty		S1 (Continuous)	S1 (Continuous)	S1 ( Continuous)
Direction of Rotation		Clockwise	Clockwise	Clockwise
Max. Immersion Depth		5m	5m	5m
Sealing		Mechanical Seal	Mechanical Seal	Mechanical Seal
Impeller Type		Closed Multi Channel	Vortex	Semi Open Double Channel
Max. Ambient Temp.		40°C	40°C	40°C

#### Material of Construction

	DLS, SLS & SLSC - Series
Top Cover	S.S 304
Motor Housing	S.S 304
Impeller	S.S 304
Pump Casing	S.S 304
Rotor Shaft	S.S
Mechanical Seal	Carbon & Ceramic

### Liquid Characteristics

Maximum liquid temperature	40°C
pH Value	4 - 10
Available Delivery Size	1½", 2" & 2½"

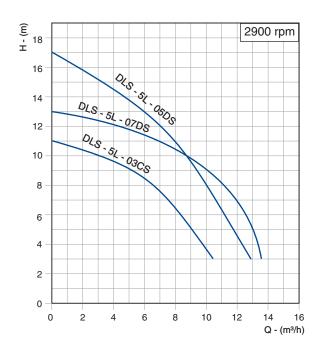
# STAINLESS STEEL Drainage Pumps - DLS Series

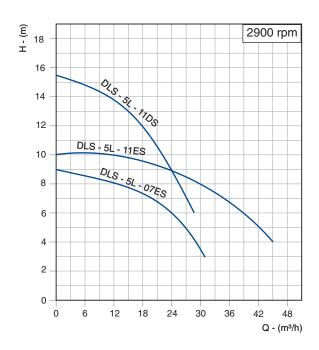




Impeller type	Impeller mtrl.
Closed Multi Channel	S.S 304

#### Performance Curves & Data





Mo	Model		Motor	Power	Rated	Rated	Max.	Approx.
Single Phase	Three Phase	Size (mm) kW HP		Head (m)	Flow (m³/h)	Head (m)	Weight (kg)	
DLS - 5L - 03CS	DLS - 5L - 03CT	40	0.37	0.5	9	5	11	8.5
DLS - 5L - 05DS	DLS - 5L - 05DT	50	0.55	0.75	13	6	17	12.3
DLS - 5L - 07DS	DLS - 5L - 07DT	50	0.75	1	9	10	13	12.9
DLS - 5L - 07ES	DLS - 5L - 07ET	65	0.75	1	6	24	9	13.3
DLS - 5L - 11DS	DLS - 5L - 11DT	50	1.1	1.5	13	15	15.5	14.5
DLS - 5L - 11ES	DLS - 5L - 11ET	65	1.1	1.5	6	39	10	14.3

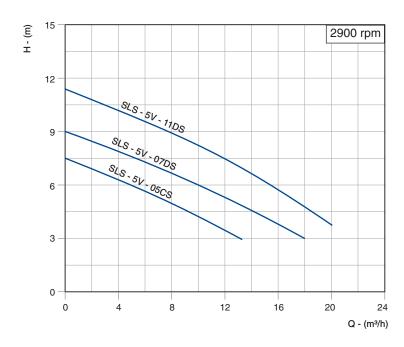
Only single phase pumps are provided with float switch.

# STAINLESS STEEL Sewage Pumps - SLS Series



Impeller type	Impeller mtrl.
Vortex	S.S 304

#### Performance Curves & Data



Mo	odel	Outlet Motor Power		Solid Handling	Rated	Rated	Max.	Approx	
Single Phase	Three Phase	Size (mm)	kW	HP	Capacity (mm)	Head (m)	Flow (m³/h)	Head (m)	Approx. Weight (kg)
SLS - 5V - 05CS	SLS - 5V - 05CT	40	0.55	0.75	30	5	8	7.5	15
SLS - 5V - 07DS	SLS - 5V - 07DT	50	0.75	1	40	6	10	9	16
SLS - 5V - 11DS	SLS - 5V - 11DT	50	1.1	1.5	40	7.5	12	11.5	17

Only single phase pumps are provided with float switch.

# STAINLESS STEEL Sewage Pumps - SLS Series

S.S 304





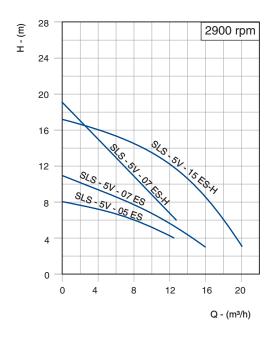


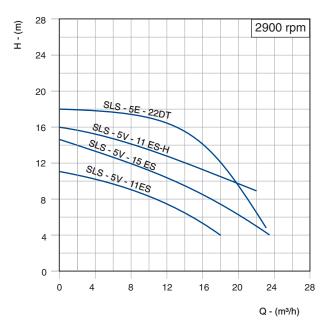
Impeller type	Impeller mtrl.
Vortex	S.S 304

#### Performance Curves & Data

Impeller type

Closed Double Channel





Mo	odel	Outlet	Tillel   Wold   Owel		Solid Handling	Rated	Rated	Max.	Approx.
Single Phase	Three Phase	Size (mm)	kW	HP	Capacity (mm)	Head (m)	Flow (m³/h)	Head (m)	Weight (kg)
SLS - 5V - 05ES	SLS - 5V - 05ET	65	0.55	0.75	50	6.5	7	8	10
SLS - 5V - 07ES-H	SLS - 5V - 07ET-H	65	0.75	1	50	14	5	19	12
SLS - 5V - 07ES	SLS - 5V - 07ET	65	0.75	1	50	7	10	11	12
SLS - 5V - 11ES-H	SLS - 5V - 11ET-H	65	1.1	1.5	50	14.5	7	16	13.5
SLS - 5V - 11ES	SLS - 5V - 11ET	65	1.1	1.5	50	6	15	11	13.5
SLS - 5V - 15ES-H	SLS - 5V - 15ET-H	65	1.5	2	50	13.5	10	17	14.5
SLS - 5V - 15ES	SLS - 5V - 15ET	65	1.5	2	50	9	15	14.5	14.5
SLS - 5E - 22DS	SLS - 5E - 22DT	50	2.2	3	40	15	15	18	25

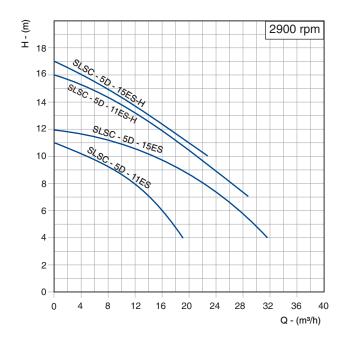
Only single phase pumps are provided with float switch. All the above models can also be supplied with 2" outlet.

# STAINLESS STEEL Sewage Pumps with Cutter - SLSC Series



Impeller type	Impeller mtrl.
Semi Open Double Channel	S.S 304

#### Performance Curves & Data



Model		Outlet	Motor	Power	Rated	Rated	Max.	Approx.
Single Phase	Three Phase	Size (mm)	kW	HP	Head (m)	Flow (m³/h)	Head (m)	Weight (kg)
SLSC - 5D - 11ES-H	SLSC - 5D - 11ET-H	65	1.1	1.5	14.5	7	16	14.5
SLSC - 5D - 11ES	SLSC - 5D - 11ET	65	1.1	1.5	7	14	11	14.5
SLSC - 5D - 15ES-H	SLSC - 5D - 15ET-H	65	1.5	2	14.5	10	17	15.5
SLSC - 5D - 15ES	SLSC - 5D - 15ET	65	1.5	2	7	25	12	15.5

Only single phase pumps are provided with float switch.

IMPELLER TYPE	PICTURE
Vortex	ST
Semi open single channel	3
Semi open double channel	
Semi open multi channel	
Closed double channel	
Closed multi channel	

NOTES:

## WINNING WAYS

When you have a good thing going it is quite in the fitting of things that recognitions come our way. Several prestigious awards, which decorate our shelf, say it all. These rewards not only acknowledge our position as a leader in the water pump industry but also serve as reminders about what the customer expects from a winner. And we, as ever, have our ears perfectly tuned to customer expectations.



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