

Changing
lives
for **better**

DARLING
PUMPS GROUP **DARLING**
PUMP 
Designing SMART pumping solutions...

Wastewater Pumps

Designed to be tough...



MW/CD/WV/WC Series



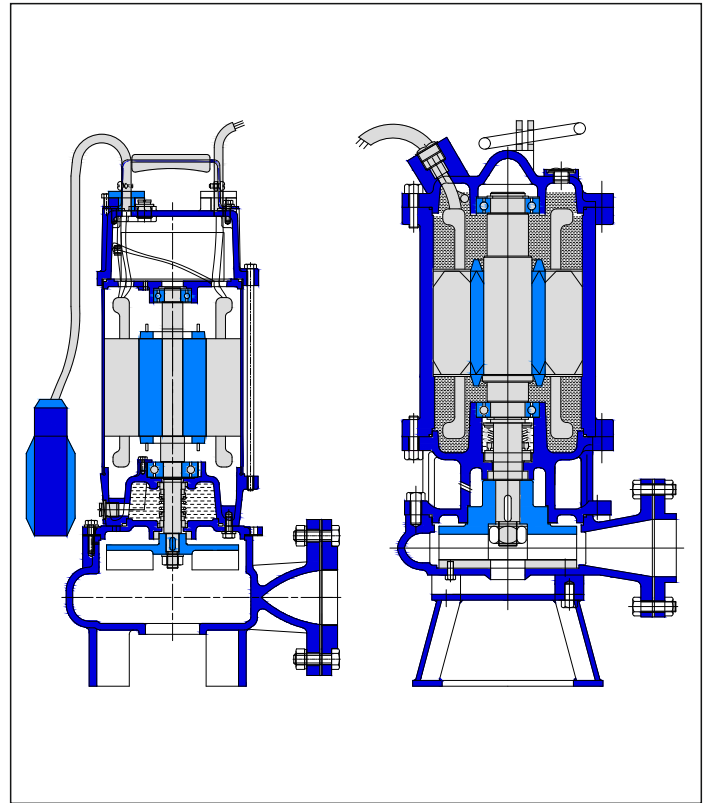
WASTEWATER

Wastewater Series : Features & Dimensions

Features

- **Impeller** - Choice of impeller - Vortex, Radial, Channel to cater different kind of solid handling applications. Suitable for handling solids up to 50mm.
- **Motor** - Highly efficient motors with built-in protection against temperature rise. Motor capable to withstand wide voltage fluctuations.
- **Shaft** - Heavy duty shaft to avoid deflection while pumping solids.
- **Mechanical Seals** - Mechanical seals fitted in independent chambers, not exposed to pumpage liquid and devoid of discharge pressure.
- **Bearing** - Heavy duty ball bearing used at top and bottom ends to balance adverse load.
- **Cable Sealing** - Special leak proof cable sealing arrangement to avoid ingress of water through cable. No need to open motor for changing cable.
- **Float Switch** - Pumps up to 2HP can also be provided in single phase and with built-in float arrangement.

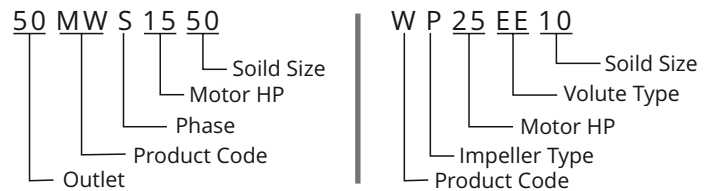
Cross Sectional View



Denominations

Product Code MW/WW/CD/WP/WR/WV/WC
 Installation Vertical / Portable
 Impeller Characteristic Non-clog
 Discharge Connection 50/80/100 mm

Nomenclature



Dimensions

PUMP MODEL	HP/KW	RPM	DN SIZE	SOLID PSSG	MIN. SUB.	WD (Apprx.)	HT (Apprx.)	N.WT. (kg)*
50MW S 08 35	1.0/0.75	2900	50	35	335	270	450	24.5
50MW T 08 35	1.0/0.75	2900	50	35	335	270	450	24.5
50MW S 08 50	1.0/0.75	2900	50	50	360	240	480	25.5
50MW T 08 50	1.0/0.75	2900	50	50	360	240	480	25.5
50MW S 11 35	1.5/1.1	2900	50	35	335	270	450	25
50MW T 11 35	1.5/1.1	2900	50	35	335	270	450	25
50MW S 11 50	1.5/1.1	2900	50	50	360	240	480	26
50MW T 11 50	1.5/1.1	2900	50	50	360	240	480	26
50MW S 15 35	2.0/1.5	2900	50	35	335	270	470	26
50MW T 15 35	2.0/1.5	2900	50	35	335	270	470	26
50MW S 15 50	2.0/1.5	2900	50	50	380	240	495	28
50MW T 15 50	2.0/1.5	2900	50	50	380	240	495	28
WW-101	1.0/0.75	2790	50	40	415	305	515	29
WW-102	1.0/0.75	2790	50	20	400	250	500	28
WW-151	1.5/1.1	2800	50	40	415	305	515	31
WW-152	1.5/1.1	2800	50	20	400	250	500	30
WW-201	2.0/1.5	2800	50	40	415	305	515	31
WW-202	2.0/1.5	2800	50	20	400	250	500	30
WP-03D/35	3.0/2.2	2820	80	35	500	335	600	63
WP-05D/35	5.0/3.7	2830	80	35	500	335	600	67
WR-03LM/20	3.0/2.2	2820	50	20	490	250	585	55
WV-03LL/40	3.0/2.2	2820	50	40	470	340	560	52

* without cable

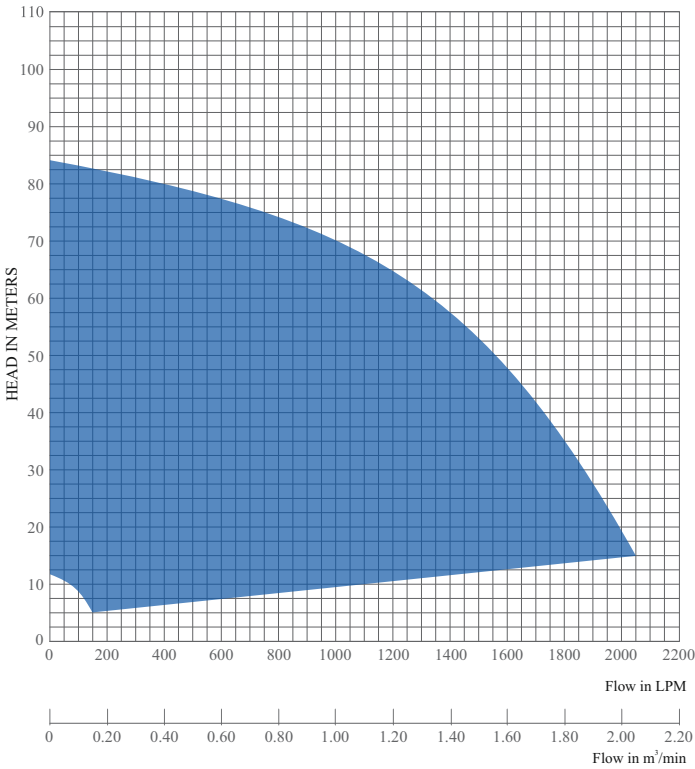
PUMP MODEL	HP/KW	RPM	DN SIZE	SOLID PSSG	MIN. SUB.	WD (Apprx.)	HT (Apprx.)	N.WT. (kg)*
WV-05LL/40	5.0/3.7	2830	50	40	470	340	560	57
WP-07E/40	7.5/5.5	2850	100	40	535	415	630	120
WP-10E/40	10/7.5	2850	100	40	585	415	680	140
WP-10D/40	10/7.5	2850	80	40	585	335	675	125
WP-12E/40	12.5/9.3	2860	100	40	585	415	680	145
WP-15E/17	15/11	2870	100	17	600	475	725	170
WP-20E/20	20/15	2880	100	20	600	475	820	190
WP-20H/40	20/15	2930	80	40	910	430	1110	270
WP-25H/40	25/18.5	2930	80	40	910	430	1110	300
WP-25EE/10	25/18.5	2890	100	10	775	420	1090	253
WP-30H/40	30/22	2930	80	40	910	430	1110	310
WP-35EE/10	35/26.1	2890	100	10	805	420	1120	260
WP-35H/40	35/26.1	2935	80	40	910	430	1110	330
WP-40H/40	40/30	2955	80	40	1010	430	1210	410
WP-50H/40	50/37	2960	80	40	1010	430	1210	510
WR-50HH/20	50/37	2900	80	20	880	510	995	375
WP-60H/40	60/45	2960	80	40	1180	430	1440	565
WP-75H/40	75/55	2965	80	40	1180	430	1440	650
WP-100H/40	100/75	2965	80	40	1240	430	1500	750
4WC-104	10/7.5	1455	100	NA	850	480	1055	235
4WC-154	15/11	1455	100	NA	950	480	1155	268
4WC-204	20/15	1455	100	NA	950	480	1155	275

Note: All dimensions are in millimeter (mm).

Wastewater Series : Technical Specifications & Performance

Performance (Range)*

(Upto 100 HP / 88M Head / 2050LPM Flow)



* We offer fully customised pumps for your specific needs and applications

Tech. Specifications*

Rating	: Up to 100HP
RPM	: 2900
Frequency	: 50Hz
Supply	: Three Phase - 415 V
Starting	: DOL / STARDELTA
Motor	: Dry Type / Wet type

Process Data

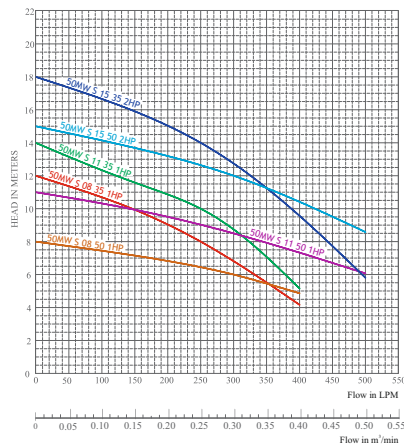
Liquid Temperature	Max 40°C
Liquid Density	Max 1100 kg/m ³
Suitable for Liquid pH	6 to 8
Solid Passage	Up to 50 mm

Materials*

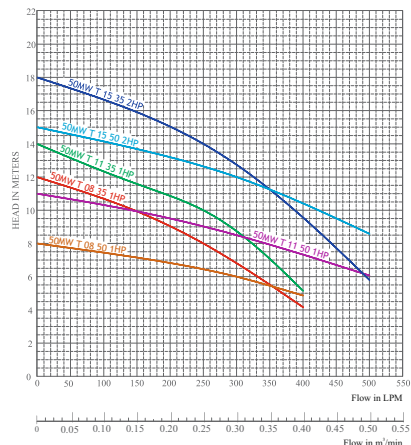
Impeller	: CA-15, CF8, CF8M, Various grades of CI
Shaft	: AISI-410, SS-304, SS-316
Casing	: Various grades of CI / SS
Wear Plate	: Various grades of CI / SS
Mech. Seal	: Sic v/s Sic, Tc v/s Tc

* Option of complete pump in special MoC is also available

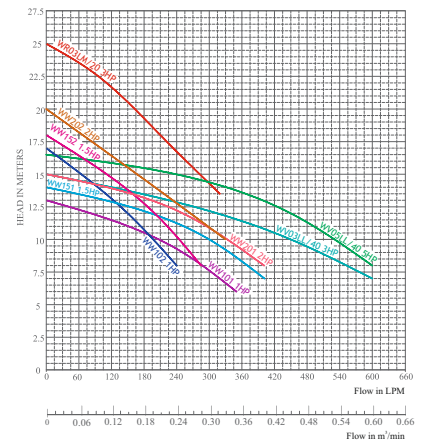
Performance for Pump in DN-50mm (MW S)



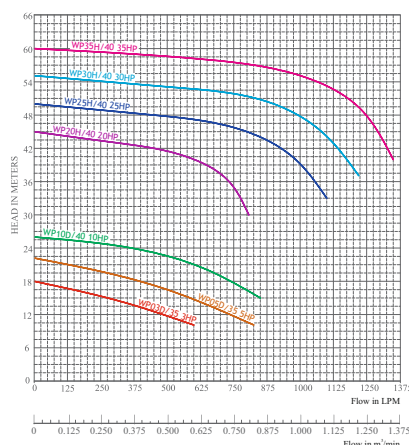
Performance for Pump in DN-50mm (MW T)



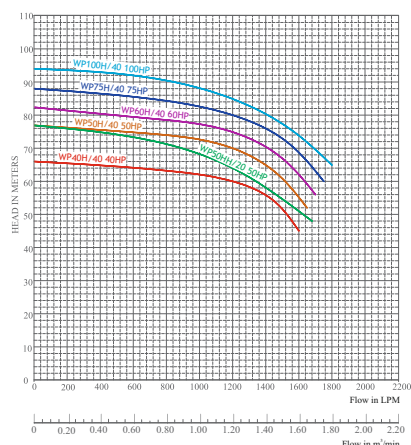
Performance for Pump in DN-50mm



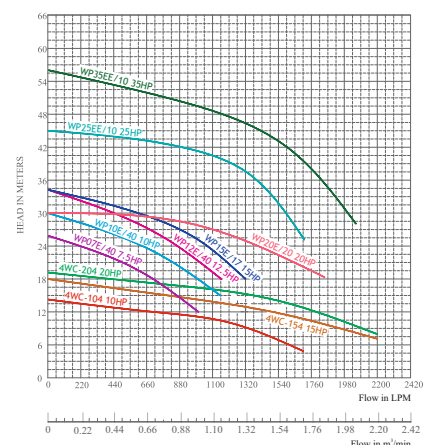
Performance for Pump in DN-80mm



Performance for Pump in DN-80mm



Performance for Pump in DN-100mm



User Industries and Applications



Building Services

- Storm water pumping
- Basement sump dewatering
- Hotels
- Hospitals
- Drainage & Sewage pumping
- Horticulture & irrigation projects
- Water Parks & Resorts



Water & Waste Water

- Treated water
- Dairy & Pharma industry
- Desalination projects
- Cowdung & Pigdung slurry pumping
- Food Processing units
- Biogas manufacturing units
- Soil Waste Processing units



Sewage & Effluent

- Raw & unscreened Sewage
- Industrial Wastes & Effluents
- Tailing ponds
- STP / ETP
- Brick fields
- Tanning units
- River cleaning projects



Govt. Sector

- Dams sites
- Ordinance factories
- Port trusts & Dockyards
- Railways
- Water Supply projects
- River linking Projects
- PHED's • CPWD's

Options

- Option of pump with dry motor as well as oil filled motor.
- Option of pumps with inbuilt agitator arrangement.
- Pumps can be offered for 60Hz.
- Option of pumps with cooling jacket.
- Option of pumps with inbuilt cutter / spiral cutting plate.
- Guiderail / Fastout arrangement upto 20mtr pit depth.
- Variety of MOCs to choose from.
- Choice of casing and impeller to suit specific soil handling applications.

Recommendations

- Always flush the pump with clean water after use.
- In case of maintenance always use Genuine Spares.
- Ensure use of proper control panel for proper safety & running of Wastewater pumps.
- Always ensure that pump is properly earth.

For exclusive range of Darling products scan



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