

Changing
lives
for **better**

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

Slurry Pumps

Engineered to perfection...



4DRR Series

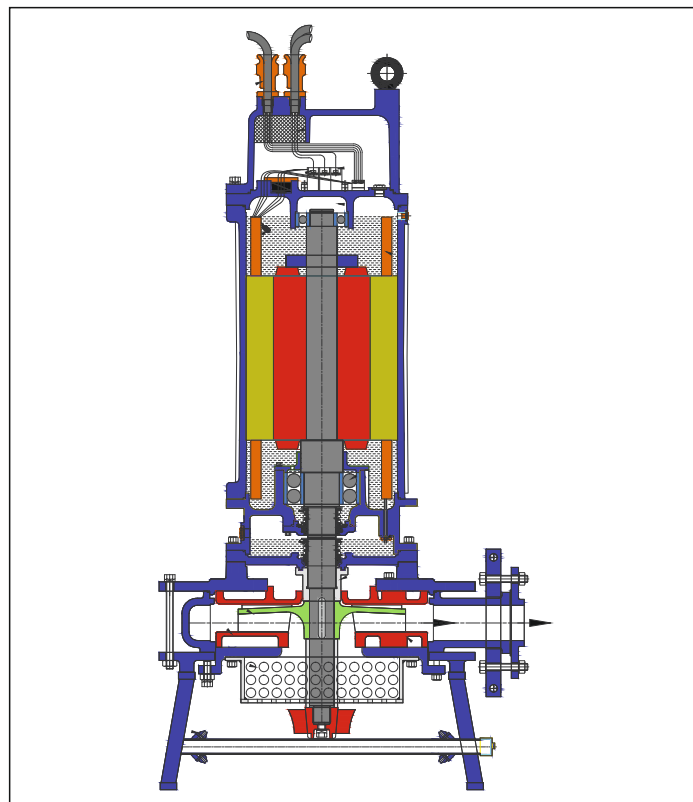


4DRR Series : Features & Dimensions

Features

- **Impeller** - Abrasive resistant Semi open type impeller with hydraulically balanced axial thrust.
- **Shaft** - Fully covered heavy duty shaft not exposed to pumpage liquid.
- **Motor** - Highly efficient slow speed motors with built-in protection against temperature rise.
- **Wearplate** - Abrasive resistant adjustable wear plate to restore clearances for optimum efficiency.
- **Mechanical Seals** - Dual mechanical seals fitted in independent chamber devoid of discharge pressure ensuring better seal life. Additionally fitted with seal sensors to detect any kind of water ingress.
- **Agitator** - Abrasive resistant agitator comes in as a built-in arrangement.
- **Jetting** - Inbuilt provision for water jet arrangement for desettling of slurries.
- **Replaceable Wear Parts** - All wear parts are independently replaceable which brings down running/maintenance cost drastically.

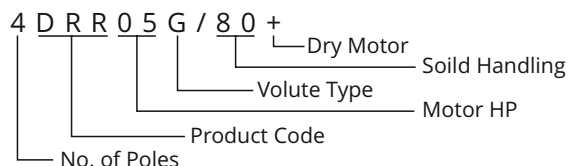
Cross Sectional View



Denominations

Product Code	4DRR+
Installation	Vertical / Portable
Impeller Characteristic	Radial
Discharge Connection	65/80/100/150 mm

Nomenclature



Dimensions

PUMP MODEL	HP/KW	RPM	OUTLET/DN SIZE	MIN. SUB.	SOLID PASSAGE	WIDTH (Approx.)	HEIGHT (Approx.)	NET WT. (kg)*
4DRR-05F/16+	5.0/3.7	1450	65	740	16	445	895	150
4DRR-05G/25+	5.0/3.7	1450	100	830	25	415	985	155
4DRR-05H/16+	5.0/3.7	1450	80	800	16	470	950	155
4DRR-07F/16+	7.5/5.5	1450	65	725	16	445	925	205
4DRR-07G/25+	7.5/5.5	1450	100	825	25	415	1020	205
4DRR-07H/16+	7.5/5.5	1450	80	780	16	465	985	205
4DRR-10F/16+	10/7.5	1450	65	725	16	445	925	215
4DRR-10H/20+	10/7.5	1450	80	780	20	465	985	215
4DRR-10I/25+	10/7.5	1450	100	830	25	475	1030	230
4DRR-15H/16+	15/11	1450	80	850	16	465	1055	290
4DRR-15I/25+	15/11	1450	100	890	25	475	1095	300
4DRR-20J/16+	20/15	1450	100	935	16	650	1140	370
4DRR-20M/25+	20/15	1450	150	965	25	600	1175	370
4DRR-25J/20+	25/18.5	1450	100	935	20	650	1145	380
4DRR-25M/25+	25/18.5	1450	150	965	25	600	1175	380
4DRR-30J/20+	30/22	1450	100	1020	20	650	1230	400
4DRR-30M/25+	30/22	1450	150	1050	25	600	1260	400
4DRR-40J/20+	40/30	1450	100	1050	20	650	1255	420
4DRR-40M/25+	40/30	1450	150	1065	25	600	1270	420
4DRR-50J/20+	50/37	1450	100	1170	20	650	1170	680
4DRR-50N/25+	50/37	1450	200	1220	25	670	1610	680
4DRR-100'MM'/25+	100/75	1450	150	1290	25	755	1705	900
4DRR-100'O'/25+	100/75	1450	200	1430	25	800	1850	776

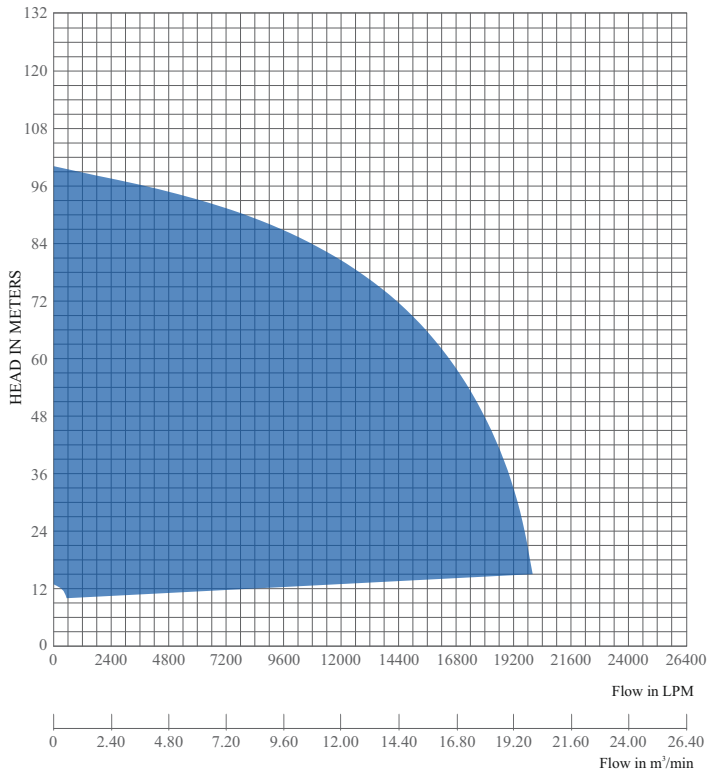
* without cable

Note: All dimensions are in millimeter (mm).

4DRR Series : Technical Specifications & Performance

Performance (Range)*

(Upto 200 HP / 100M Head / 20000LPM Flow)



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

Tech. Specifications*

Rating	: Up to 200HP
RPM	: 1450 (nominal)
Frequency	: 50Hz
Supply	: Three Phase - 415 V
Starting	: DOL / STARDELTA
Motor	: Dry Type / Wet type

Process Data

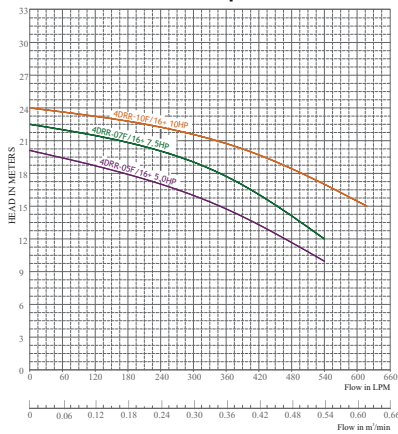
Liquid Temperature	Max 40°C
Liquid Density	2.8 gm/cc
Solid Passage	Up to 32 mm
Solid Concentration	65% by weight

Materials*

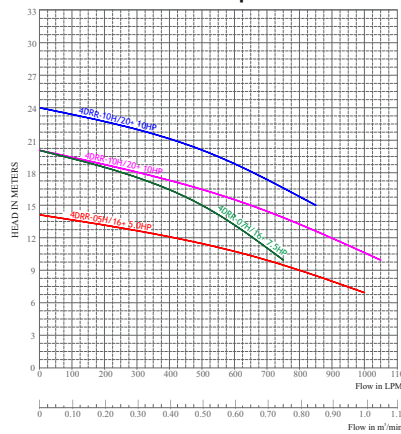
Impeller	: High Chrome, Ni-Hard, Hardned SS
Shaft	: SS
Casing	: Ni-Ci, High Chrome, Ni-Hard
Wear Plate	: High Chrome, Ni-Hard
Agitator	: High Chrome, Ni-Hard
Mech. Seal	: Sic v/s Sic, Tc v/s Tc

* Option of complete pump in special MoC is also available

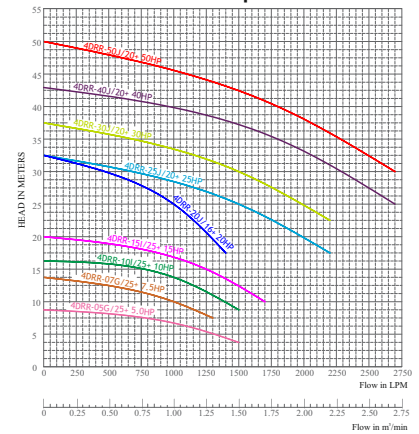
Performance for Pump in DN-65mm



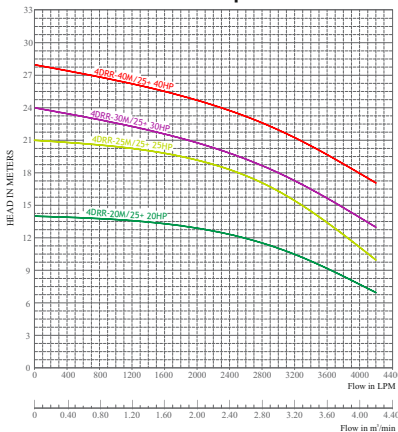
Performance for Pump in DN-80mm



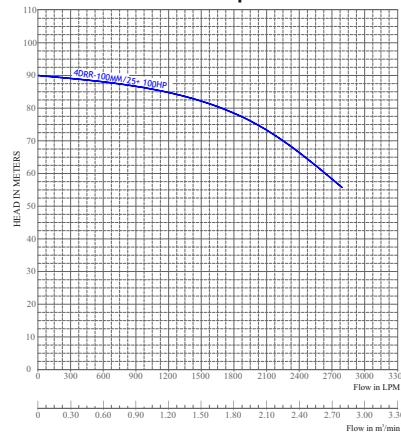
Performance for Pump in DN-100mm



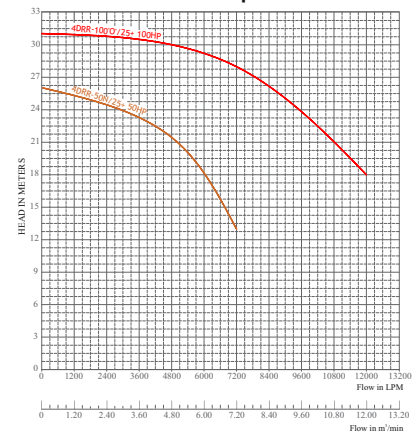
Performance for Pump in DN-150mm



Performance for Pump in DN-150mm



Performance for Pump in DN-200mm



For pumps above 100HP please consult our application engineer.

User Industries and Applications



Steel Sector

- Beneficiation area
- Sintering Plants
- RHMS
- Slag slurry in Blast Furnace
- Captive Power Plants
- Wagon Tripler area - CHP
- Jetty area
- Hot water in Blast Furnace
- Coke Oven
- HSM
- Casters



Power Sector

- Intake water supply
- Zero discharge
- Ash handling
- Coal handling
- Cooling Water Ponds cleaning
- Cooling towers
- Utilities slurry pumping



Mines

- Ore extraction
- Pumping of mines slurry
- Pumping of corrosive & abrasive liquids
- Pumping of highly concentrated liquids
- Stone processing units



Docks & Marinas

- Dry dock cleaning
- Cleaning of Ports and Jetties
- Desalination projects
- River cleaning projects
- Pumping Highly contaminated marine water with muck & sediments

Options

- We offer complete Slurry pumping solution for all kind of slurries.
- All slurry pumps are customised to cater specific needs of users.
- Specialised range of slurry pumps for pumping deep sea slurries.
- Can be offered for pumping high temp. slurries upto 90°C.
- Option of pontoon mounted slurry pumps also available.
- Option of twin volute casing.
- Customisable jetting arrangement based on weight and concentration of slurry.
- Customisable pump stand for maximum slurry pumping.
- Pumps can be offered in 60Hz on request.

Recommendations

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

For exclusive range of Darling products scan



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