



DPP series

Dry Priming Pump with Engine Driven



Dry priming centrifugal pump with diesel engine driven, This series of pump can transport all kinds of clean, neutral and corrosive medium containing particles. Solve a lot of traditional self-priming pump faults. This kind of self-priming pump unique dry running structure will be automatic startup and restart without liquid for first start, The suction head can be more than 9 m ;Excellent hydraulic design and unique structure keep the high efficiency more than 75%. DPP PUMPS have different structure installation for optional.

Structure characteristic

- 1.High self-priming pressure
Synchronous self priming ,according to the local atmospheric pressure difference the highest suction head can be 9.5m, far higher than the traditional self suction pump.
2. Quick start and restart
Using a unique dry running structure, the first time to start the pump is also no need to have a liquid, can be directly started to work, reduce the field operation;
3. Ultra high efficiency
With excellent hydraulic model and unique design structure , the pump efficiency high up to 80%, compared with the normal self priming pump ,the efficiency will be higher than 25%. Save the running costs;
- 4.The use of semi open impeller design
Pumping with various fibers and solid particles of media, the largest by 50mm solid particles flange according to the user's specific requirements ,The wet parts can be used cast iron ,cast steel and all kind of stainless steel or Duplex SS material to transfer the corrosive type liquid. The seal can be choose the M/S or gland packing .



Multi-purpose solution

- Standard sump pumping
- Slurry & semi solid material
- Well pointing – high vacuum pump capacity
- Dry running applications
- 24 hour reliability
- Designed for high ambient environments

Market Sectors

- Building & Construction – well pointing and sump pumping
- Water & Waste – over pumping and systems bypass
- Quarries & Mines – sump pumping
- Emergency Water Control – sump pumping
- Docks, Ports & Harbors – sump pumping and stabilization of loads
- Flood Control

PUMP Options

- Stainless steel impeller and wear plates (standard)
- Bronze impeller and wear plates .
- Mechanical seal (gland packing seal on optional)
- Electric start engines (standard)
- Hand start engines
- Engine hour meter
- Engine protection system
- Alternative engine options
- Electric motor option
- Skid mounted chassis
- Wide range of recommended accessories



pulp and paper industry;

Application domain

- In the municipal building, port;
- In the chemical industry, pulp and paper,
- In mining, metallurgy;
- fire, environmental protection;
- flood control

Use parameters

Diameter: DN 50 – 1000mm

Capacity Flow: Q 50 ~ 9900 m³ /h

Head: H up to 100m

MPaTemperature T: ~ 70°C



pulp and paper industry;

- ◆ Vacuum priming in excess of 9m* – vertical suction lift in under one minute even on 'snore'.
- ◆ Fast automatic priming and re-priming (can run dry and then re-prime).
- ◆ Heavy duty internal pump bearings – exceptional long life.
- ◆ Internals supplied in high grade bronze (as standard) or with stainless steel option.
- ◆ Efficient open impeller design – large solids and abrasive materials handled while maintaining high flow rates.
- ◆ High capacity air handling enables more "well points" to be operated.
- ◆ Easy on-site handling with solid rubber wheeled chassis and single lifting point.
- ◆ By controlled floating gas water separation system to ensure that the suction– extended priming efficiency – rapid on-site change in minutes (mechanical seal option).
- ◆ Built-in fuel tank for longer running (optional additional fuel tank available).
- ◆ Automatic startup control panel.
- ◆ Super size inspection hole cover to facilitate clean.
- ◆ Dry running ability.
- ◆ Air separator tank easy service, stainless steel material is optional.
- ◆ Long running times with minimal service intervention.

★ Subject to geology, fluid density, losses







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