

JAGDISH PUMP
ENGINEERING CO.



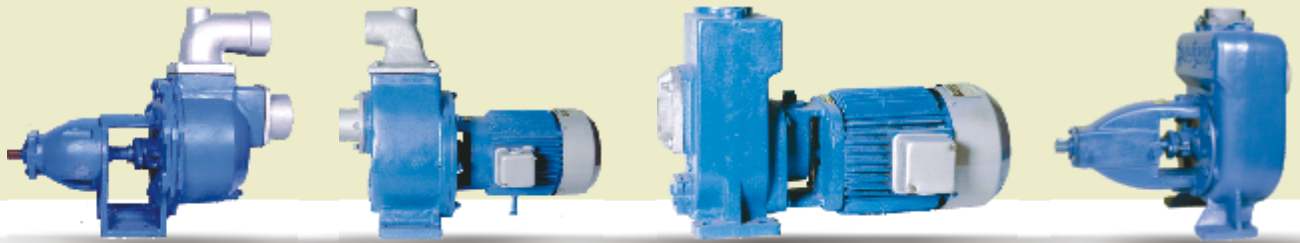
We defy gravitational force



SELF-PRIMING PRINCIPLE

Air is drawn into the pump by the vacuum produced as the Impeller rotates and is emulsified with the liquid contained in the pump casing. The air/liquid mixture is driven into the priming chamber where the air, which is less dense, separates out and vents through the delivery line while the liquid, due to the higher density, falls back and is recirculated. When all the air has been evacuated from the suction line, the pump primes and operates like a normal centrifugal pump, it can also handle a mixture of air and liquid. The check valve mounted in the pump suction serves two purposes: it prevents the liquid from draining out of the suction line when the pump is not in operation, and if the suction line is drained by accident, enough liquid is retained in the pump casing for the pump to reprime. The delivery line must allow the air drawn from the suction line to vent to atmosphere.

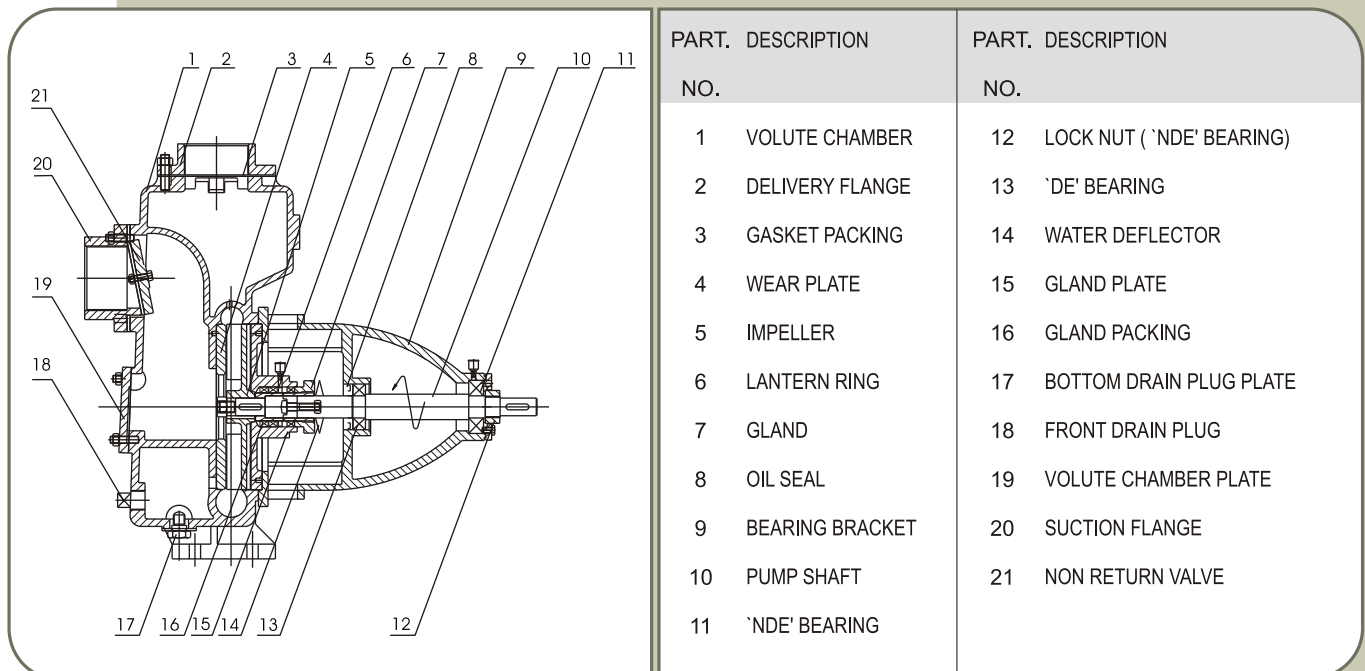
JMD series pumps are self priming centrifugal pumps with open / semi open impeller handling polluted liquids with large diameter suspended solids. The solid rugged design with replaceable wear plate and back pull out design makes it most reliable option .



FEATURES

- Simple Construction having back-pullout design.
- Easy inspection of impeller.
- Quick Self-priming action without foot-valve up to 7.5m.
- Pumping large size diameter solid in suspension.
- Available in Mono-block & Bare-shaft design for v-belt / couple set version.
- Various options for material of Construction, like -AISI Ss304, AISI316, Bronze & Sealing.
- Option for separate volute design and replaceable wear plate Gland Plate for quick, Low-cost & easy maintainance.
- Standard model having SS410 Sleeve, Wear Plate Screw, Imp. Nut; C40 Shaft, Rest in FG200 Cast Iron.

GENERAL VIEW OF PARTS OF SELF PRIMING COUPLED PUMP



APPLICATIONS

JMD pumps are used when one or more of the following are required :

- Self priming • Solid / Polluted handling. • Resistance to abrasion.

JMD Pumps can handle liquids up to a Viscosity of about 50 mm²/s (cst)



WASTE TREATMENT

Pumping Out settled Sludge, Dosing Neutralizing Liquids, Filtration, Pumping Out Settled Sludge. Pumping Polluted, Corrosive Waste Water Containing sand, Mud Or Solids In Suspension. Effluent Treatment Plant.



INDUSTRY

Transfer of clean or dirty, neutral, acid or alkali Liquids, Liquids containing sand, mud or suspended solids, Clean or dirty low viscosity petroleum products or solvents, milk or lime suspension soda, washing, cooling, circulation, smoke scrubbing, emergency duty.



CIVIL ENGINEERING

De-Watering Construction Sites, basement, trenches, Food Waste in restaurants, Swimming pool filtration.



MARINE DUTY

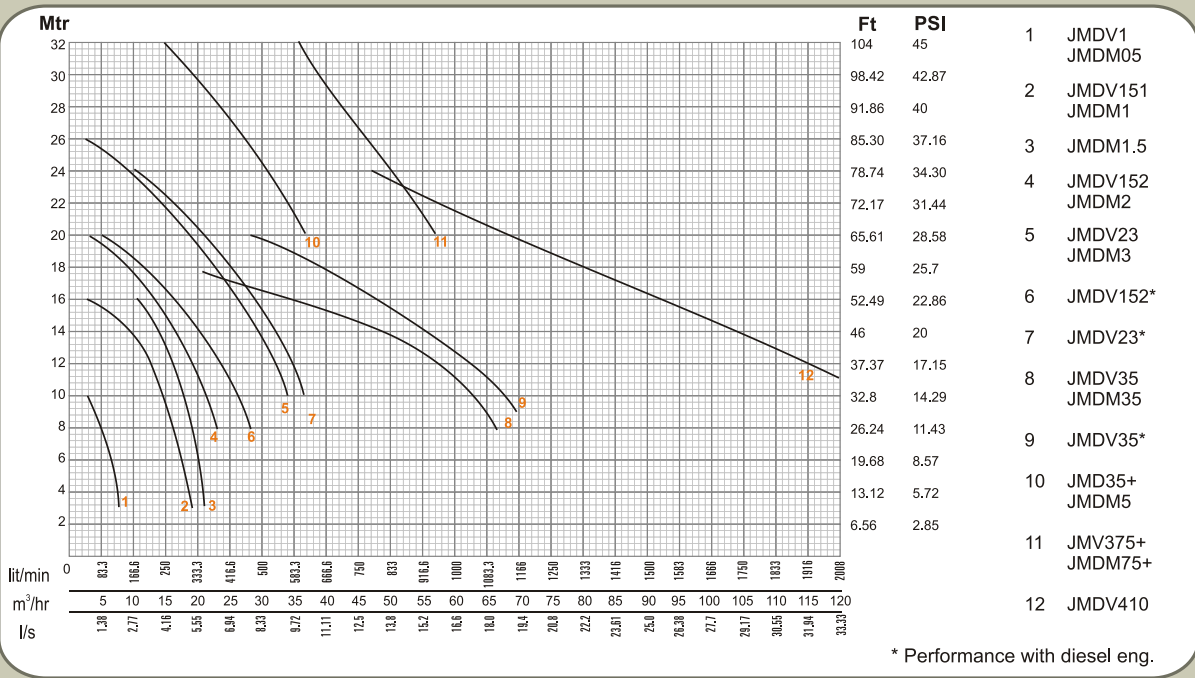
Loding or Unloading Sanitary duty. Cleaning bilges.



AGRICULTURE

Surface irrigation, Liquid manure Oxygenation, Distribution & Liquid animal feed, Portside Liquid or fertilizers

CURVE PERFORMANCE CHART



* For more precise performance data reference should be made to the individual Performance curves & each pump.

