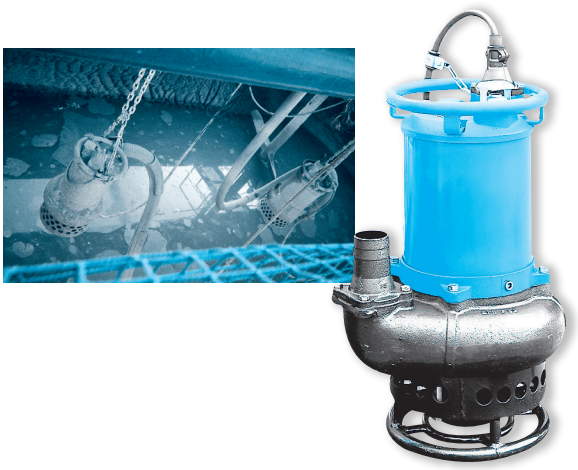
GPN

A hard iron Impeller and suction plate greatly increase the pump durability



Applications

- Pumping bentonite slurry
- Pumping water containing cement slurry, mud, and sand
- Draining aggregate wash water at a quarry or ore wash water at a mine.
- Collecting sediments at the grit chamber in a wastewater treatment plant.
- Transferring water containing iron scale in steel production.

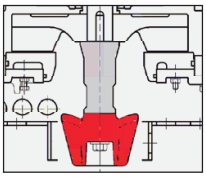
Features

Agitator
The shaft mounted agitator facilitates efficient suspension of settled slurry, sand, or mud.

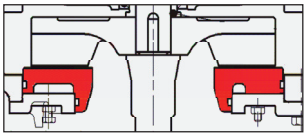
Suction Plate
A suction plate mechanism is adopted in the GPN series pumps. If the performance drops due to wearing out of the suction plate, restoration of the performance is possible by replacing the suction plate only. It will not be necessary to replace the whole suction cover.

For the GPN622 model, it is possible to adjust the impeller clearance (to move the suction plate closer to the impeller) by merely tightening or loosening six (6) bolts, by which the lost performance can be restored.

Agitator



Suction Plate

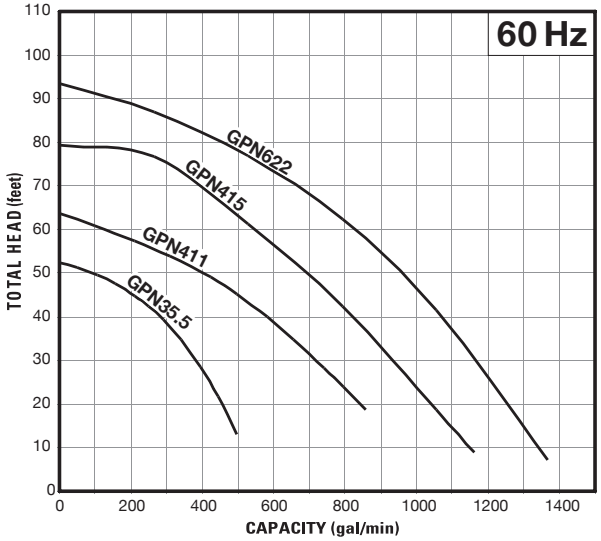


(This illustrates Model GPN622)

Major Components & Specifications

Item \ Discharge bore size inches			3	4	6
Pumping Fluid	Type of fluid		Sludge,various types of slurry,liquid containing sandy mud		
	Fluid temperature		32 ~ 104°F		
Pump	Structure	Impeller	Semi-open		
		Shaft seal	Mechanical seal		
		Bearing	Shielded ball bearing		
	Materials	Impeller	Chromium iron casting		
		Casing	Gray iron casting		
		Suction plate	Chromium iron casting		
		Shaft seal (mechanical seal)	Silicon carbide		
Motor	Type, Poles		Dry-type submersible induction motor,4 poles		
	Insulation		Class E • B • F		
	Phase / Voltage		Three-phase / 208-230V, 460V, 575V		
	Motor protector (Built-in)		Circle Thermal Protector or Miniature Protector (Only GPN622)		
	Lubricant		Turbine oil (ISO VG32)		
	Materials	Frame	Gray iron casting		
		Shaft	Chromium molybdenum steel		
		Cable	Chloroprene rubber		
Discharge connection			NPT coupling		

Performance Curves



Standard Specifications

MODEL	MOTOR SPECIFICATIONS						PUMP SPECIFICATIONS			DIMENSIONS			
	Motor Output (HP)	Rated Current (A)				RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
		208V	220V	460V	575V					Diameter	Height		
GPN35.5	7.5	21.1*	20.0	9.8	7.6	1720	3	497	52	19 3/16	30 9/16	10 5/8	319
GPN411	15	42.0*	39.0	19.5	14.5	1735	4	859	64	24 5/16	33 7/8	11 5/8	478
GPN415	22	55.0*	52.0	24.0	20.0	1735	4	1162	79	24 5/16	33 7/8	11 5/8	485
GPN622	30	—	—	36.5	29.5	1750	6	1368	94	28 9/16	43 3/8	11 3/4	910

* : Same motor 208 & 220V