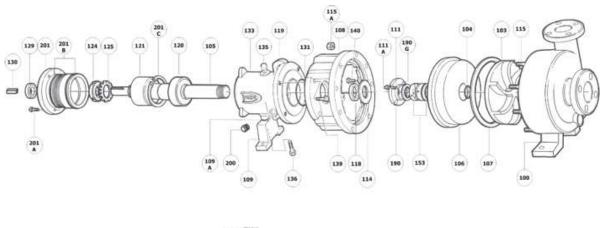
## **VORTEX** TYPE PUMP

The vortex created by the spinning impeller does the pumping with less than 20% of the media actually contacting the impeller.

Abrasive wear is minimized and solids integrity is maintained. Precision-cast impellers ensure peak energy efficiency and low NPSH requirements. Rear pump out vanes are used as necessary to ensure low, positive seal chamber pressure and to expel solids from the seal area, thus maximizing mechanical seal and packing life. The impeller is set to the rear cover plate just like the standard reverse vane impeller.

## SECTIONAL DRAWINGS





ITEM	DESCRIPTION		ITEM	DESCRIPTION	
100 103 104 105 106 107 108 109	Casing Impeller Impeller Gasket Shaft Cover Cover Adapter Bearing Housing Foot		124 125 129 131 134 135 136	Bearing Locknut Bearing Lockwasher Outboard Oil Lip Seal Adapter O-Ring Bearing Housing Drain Plug Bearing Housing Vent Plug Capscrew – Foot Capscrew – Bearing Housing	N/A
110 111	Gland – Packing Stud – Gland	OPT.	140 153	Capscrew – Cover/Adapter Mechanical Seal	ODT
111A 112 113 114 115 115A 118 119	Hex Nut – Gland Lantern Ring Halves Packing Inboard Deflector Stud – Casing Hex Nut – Casing Inboard Oil Lip Seal Bearing Housing Inboard Bearing	OPT. OPT. OPT.	177 190 190G 200 201 201A 201B 201C 201D	Hook Sleeve Gland – Mechanical Seal Gland Gasket Oil Sight Gage Carrier Set Screw – Carrier O-Ring – Carrier Bearing Carrier Retainer Clap Ring Bearing Housing	OPT.
121 122	Outboard Bearing Oil Slinger	OPT.	201E	Socket Head Capscrew Clamp	OPT.

## **CASING DYNAMICS**

The cylindrical volute desing combined with the impeller spinning "out of the flow" minimize radial loads on the impeller. The result is longer seal life as well as maximized radial bearing life. The circular flow path and tangential discharge also contribute to maximum pump life.

## **APLICATIONS**

- Abrasive Waste Water
- Biological Sludge
- Clarifier Underflow
- 5% Coke Slurry
- Diatomaceous Earth Slurry
- Floculant Sludge
- Latex
- Lime Mud Slurry
- Organic Slurry
- Polymer Slurry
- Resin Slurry
- Rubber Crumb Slurry
- Sodium Hydoxide
- Catalyst Slurry