Vortex Pump

Construction
Frame A and LD17 Pump with vortex casing and impeller handling sludges and slurries with large particle solids. *Both ASME/ANSI & IPP Metric flanges available.

1 LD17 shaft
2 LD17 power end
3 Back cover/seal chamber
   • Taper bore provided on LD17
   • Straight bore with cast restriction bushing or open taper configurations available for Frame A
4 Vortex impeller recessed out of passageway.
5 Vortex casing
6 Removable suction cover

- Provides a solution to difficult pumping problems such as sludges and slurries with large particle solids, materials with entrained air, stringy or fibrous materials
- Designed to fit the standard System One and LD17 power ends and includes all the features and benefits of our System One pump
- Optional spacer flange allows removal of separate suction cover for cleanout without disturbing piping
- Solids are drawn into the vortex of swirling liquid and are discharged by centrifugal force through the open area of the casing with minimum impeller contact for minor particle degradation
- Suction and discharge passageways are one continuous open area
  - 2” pump can pass a 2” (50 mm) solid
  - 3” pump can pass a 3” (75 mm) solid
  - 4” pump can pass a 4” (100 mm) solid

1 Also available in Frame A (see circle inset above and System One Frame A Pump section for details of Power End).
Vortex Pump FRAME A & LD17

Vortex Pump METRIC FLANGE

SW dim. indicates width of optional spacer flange. All dimensions are in millimeters.

Designed for difficult pumping problems such as:
- Sludges and slurries with large solids
- Pumped materials with entrained air
- Pumped fluids with stringy or fibrous materials
- Minimum product shearing

Especially suited for the following industries:
- Waste treatment
- Food and chemical processing
- Agriculture

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