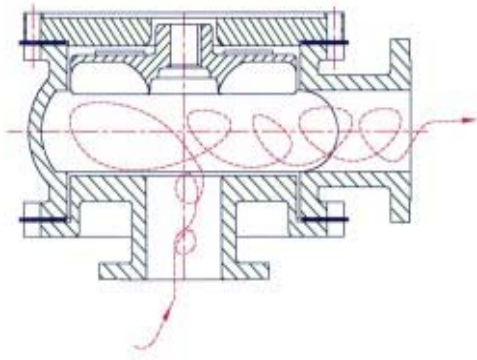


Theory of Vortex 100% Recessed Impeller Pump



100% Recessed Impeller Pumps :

The principle of operation for a 100% recessed impeller vortex pump is very simple. The impeller spins in an area of the volute that is completely out of the liquid flow path. The spinning creates a vortex similar to that found in a toilet bowl when it is flushed or a tornado. Since the impeller is not in the flow path of the volute, the pump is ideal for handling liquids that contain long stringy solids, large diameter solids, slurries or a combination of all of these without plugging up. Basically, whatever goes into the pump suction will be pumped out as long as the solids are smaller than the discharge connection.

Applications:

There are literally hundreds of applications for 100% recessed impeller vortex pumps. A few of them are listed below.

MUNICIPAL APPLICATIONS	INDUSTRIAL APPLICATIONS
Raw Sewage Lift Stations	Coal Wash
Raw Sewage Head Works WWTP	Coal Slurry
Grit Handling	Coal Pile Run-off
Sludge Recirculation	Citrus Waste
Sludge Handling	Sugar Waste Handling
Digester Cleaning	Leather Tanning Waste
Thickened Sludge	Rendering
RAS	Plant Wash down Sumps
WAS	Pumice Stone Handling
Storm Water	Paper Mill- Green Liquor Dregs
Pipe Gallery Sump Pumps	Paper Mill- Caustisizers
	Paper Mill- White Liquor
	Clarifier Underflow
	Carbon Black
	Cement Plant Waste
	Coke Handling
	Lagoon Dredging
	Many other severe duty difficult applications

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