Vertical Mixed-Flow Volute Pump

TORISHIMA CFV vertical mixed-flow volute pumps in sizes from 200mm to 3000mm are ideally suited for relay pumps in sewage treatment facilities.

Applications
- Sewerage: Rain water drainage, Sewage transfer
- Water works: Water intake, Boosting, Distribution
- Agriculture: Irrigation and Drainage

Operating Range
- Total head: 5 to 100m (16 to 320ft)
- Capacity: 180 to 72,000m³/h (790 to 317,000 USgpm)
- Size: 200 to 3,000mm (8 to 120"

In addition to the above operating range, special and larger to size pumps are also available.

Design Features
1. Solids handling design to prevent clogging of the pump casing and impeller.
2. Ease of Maintenance
   - The rotating assembly can be withdrawn from the casing without disconnecting the pipings.
3. Vertical construction saves installation space.
4. Flexible installation single-floor type, two and three-floor type installations available.

Bearing options
- Grease lubricated ball bearings
- Axial thrust is supported by pump
- Optional bearing arrangements are available for large applications

Shaft seal options
- Globe packing
- Mechanical seal
- Non flushing mechanical seal

Volute casing
- The casing is supported by rigid pump feet
- Provided with an inspection window to ease internal inspection

Upper protector
- Since the gap between the upper protector and the upper part of the impeller shroud is small, foreign substances will not impinge on the shaft seal part, or string-like ones will not become tangled with the packing sleeve etc.

Impeller options
- Open, wide channel, non-clogging impeller
- Closed impeller option

For sewage application, the number of vanes can be reduced according to the condition of sewage.
Performance Range

Pumps beyond the above range are also available.

Installation Options

Example of Installation

Four-Floor Type Installation
size: 600mm