

ASTRA Series

Dry pit vertical end suction non-clog pumps for raw sewage and effluents containing solids



Product Description:

ASTRA series vertical short shaft pumps are designed as per KISHOR design standard. These pumps are specially designed for transfer duty applications, having high efficiency and are cost-effective for pumping raw sewage and wastewater without clogging with solids size beginning from 100 mm. These pumps can be also used for pumping sludge and clean water. Various shaft sealing options, with gland packing or mechanical seal are available for these pumps. The modular design offers maximum interchangeability of the parts.

Applications:

- Raw sewage
- Screened sewage
- Drainage water
- Waste water
- Effluents with solids
- Municipal effluents
- Tannery effluents
- Seepage water
- Sludge containing solids

Industries:

- Public health
- Municipal corporations
- Residential townships
- Hospitals

Performance Parameters:

Flow	: upto 6,000 m ³ /hr
Head	: upto 85 m.l.c
Specific gravity	: upto 1.1
Temperature	: upto 45 °C
Viscosity	: upto 20 cP
DN sizes	: 100 to 600 mm
Solid passage size	: upto 100 mm

Standard Features:

- Centrifugal, single stage, end suction, top discharge pump
- Non-clog impeller, having large solid passage size upto 100 mm
- Semi-open (F) & closed type impeller
- Grease lubricated bearings
- Heavy duty bearings for drive assembly
- Shaft sealing by single mechanical seal, for clean environment or gland packing
- Bidirectional seal to ensure fail proof operation
- XSpan Technology, mitigating the effect of undesirable hydraulic forces on shaft, bearings & mech seal in VE & VI version
- Performance testing as per ISO 9906
- Integral suction flange as per KISHOR design

Versions:

- VI : Pump with internal mechanical seal
- VE : Pump with external mechanical seal
- VD: Pump with double mechanical seal
- VG: pump with gland packing

About Us:

We design & manufacture tailor-made products for pumping and mixing of corrosive, abrasive and solids laden liquids, along with suitable service support. We have one of widest spectrums of material options to suit the application based on over 5 decades of experience and expertise. At the core of product selection process, lies a deep understanding of the application and the environment in which the pump is supposed to operate, ensuring optimal selection to suit the requirement.

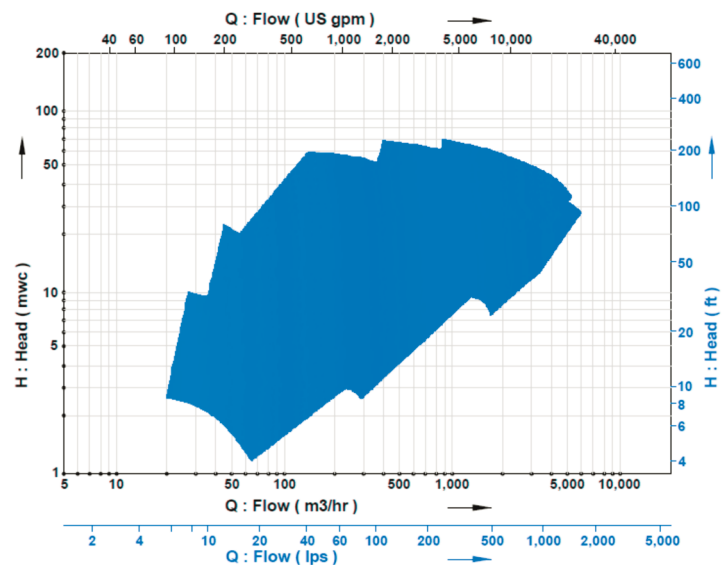
Material of Construction:

Casing	: CI, NiCl, Ni-resist, CF8, CF8M, Duplex St.steel, etc.
Impeller	: CI, NiCl, Ni-resist, CF8, CF8M, Duplex St.steel, etc.
Shaft	: SS 410, SS316, UNS 32760, etc.

Pressure Ratings :

Suction pressure	: upto 2 kg/cm ²
Discharge pressure	: upto 10 kg/cm ²
Test pressure	: 13 kg/cm ²

Performance Range:



Optional Features:

- Semi open (B) impeller
- ANSI / BS / ISO drilling on flanges
- Variety of wear rings for semi open (B) impeller
- Shaft sealing by gland packing
- Handhole cover
- Special design suction bend
- Option of using submersible motor (IP68) with a cooling jacket for flood proof installation



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