



AST-10 Series Centrifugal Pump



Design

The AST-10 pump consists of a motor, shaft, mechanical compression coupling, adaptor, back plate, impeller, pump casing and shaft seal. The AST-10 pump is designed for process application and CIP with emphasis on large internal roundings and cleanable seals. This pump has a stainless steel shroud for protection of the motor, and the complete unit is supported on four adjustable stainless steel legs.

Applications

The AST-10 pump is a highly efficient and economical centrifugal pump, which meets the requirements of sanitary and gentle product treatment and chemical resistance..

Shaft Seals

The AST-10 pump is equipped with either an external single or a flushed shaft seal. Both have stationary seal rings in acid resistant steel AISI 329 with sealing surface in silicon carbide and rotating seal rings in carbon. The secondary seal of the flushed seal is a long lasting lip seal. The pump may also be equipped with a double mechanical shaft seal.

Features

The Pump is equipped with externally mounted mechanical seal and all fluid contact parts are as per FDA guidelines.

TECHNICAL DATA

Materials

Product wetted steel parts: SS 316L

Other steel parts: SS 304

Finish: Outer : Blasted (standard)

Inner Wetted Parts : 3A polishing (Ra < 0.8).

Product wetted seals: EPDM (acc. to FDA).

Connections for FS & DMS:

R 1/4" (BSP) external thread.

Motor

Foot-flanged motor according to the IEC metric standard (EFF II), 2 poles = 3000 rpm. at 50 Hz, IP 55 (with drain hole with labyrinth plug), insulation class F.

Motor sizes

50 Hz: 1.5 – 3.7 KW (2-5HP)

OPERATING DATA

Pressure

Max. inlet pressure: 1000 kPa (10 bar).

Temperature

Temperature range: -10°C to +140°C (EPDM).

Flushed shaft seal (FS):

Water pressure inlet: max. 100 kpa (1 bar).

Water consumption: 0.25 -0.5 l/min.

Double Mechanical shaft seal (DMS):

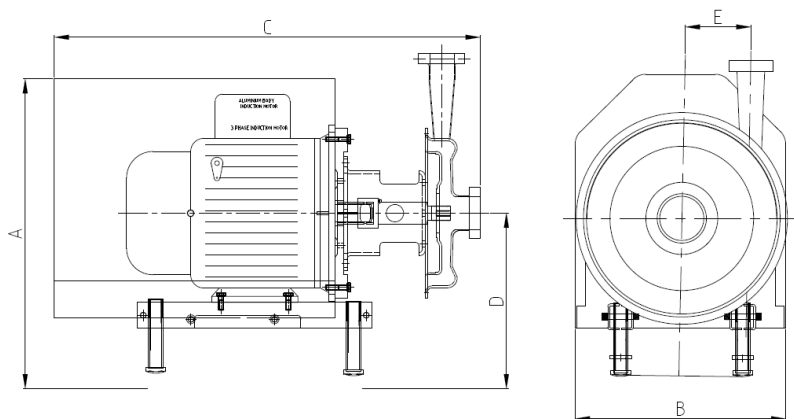
Water pressure inlet: max. 500 kpa (5 bar).

Water consumption: 0.25 -0.5 l/min.

Warranty

We offer One Year warranty on AST-10 Series Centrifugal Pump Range. Any Manufacturing defects, Wear & Tear parts are not covered under warranty.

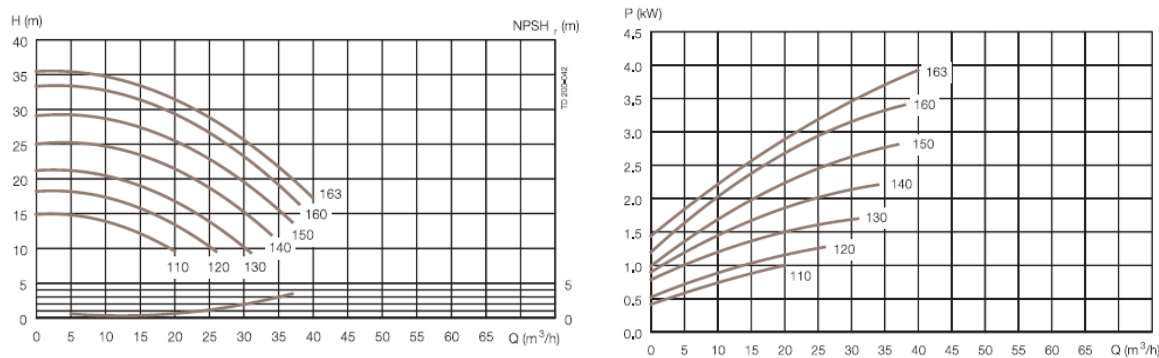
Dimensions (mm)



		AST- 10		
Motor kW/HP		1.5/2	2.2/3	3.7/5
A	max	400	400	430
A	min	360	360	380
B		240	240	290
C		560	560	600
D		215	215	220
E		87	87	87
Weight (kg)		46.25Kg	49.25Kg	64.15Kg
Suction/Discharge		51mm / 38.1mm		

Flow chart

AST-10



Options

- A. Impeller with reduced diameter.
- B. Motor for other voltage and/or frequency.
- C. Flushed shaft seal.
- D. Product wetted seals of Nitrile (NBR), Fluorinated rubber (FPM) or FEP.
- E. Rotating seal ring material in Silicon Carbide.

Ordering

Please state the following when ordering:

- Pump size.
- Connections.
- Impeller diameter.
- Motor size.
- Voltage and frequency.
- Flow, pressure and temperature.
- Density and viscosity of the product.
- Options.

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