



*Pumps at its Best*

**ABIRAMI PUMPS**

Complete Solution for All Liquid Handling



## ABIRAMI ENGINEERING COMPANY

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**PRODUCT**   
**GALLERY**

## ► Company Profile

ABIRAMI ENGINEERING COMPANY is in the field of Pump Manufacturing for almost a decade. We manufacture Centrifugal Pumps for Water, Chemical, Pulp Stock, Slurry, Petrochemicals etc., The pumps are marketed in the brand name of "ABIRAMI PUMPS".

Company is having a complete infrastructure duly supported by qualified Technical Experts for Design, Material Handling, Process, Manufacturing, Quality Assurance, Testing, Finishing, Pre despatch activities & for the Service after Sales.

All the Company Members Minds & Hands are in same vision of 100% customer satisfaction in ABIRAMI product & service. Along satisfied customer list yields us a new Customer regularly.

## ► Quality Policy

ABIRAMI strives to Manufacture the Pumps & Parts to the entire quality satisfaction in all respect through the members involved in the manufacturing process within the shop floor to ensure 100% customer satisfaction.

Focus  
on  
Quality

QUALITY  
POLICY

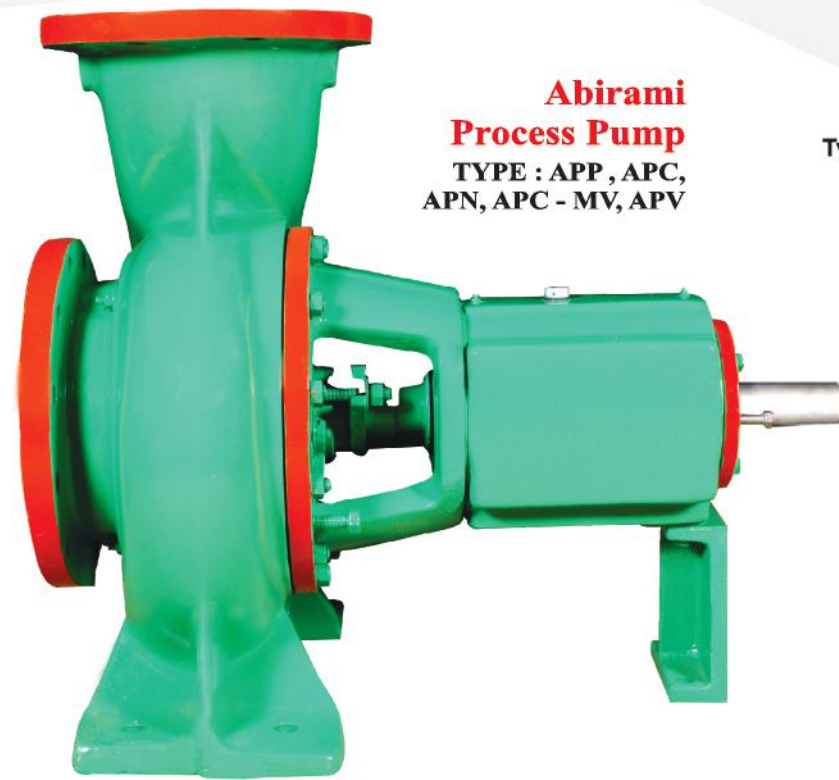
## ► Service Policy

It is a desire of the company to have a close interaction with the customer during pre sales & Service after sales to have a best knowledge sharing about process conditions, best pump selection, improved pumping, Operation, efficiency improvements & smooth maintenance



## SPECIALITIES OF ABIRAMI PUMPS

- | New aged energy efficient pumps for the efficient & productive operation.
- | Complete range of centrifugal pumps to cover all applications in the industry.
- | Heavy duty triple bearing design for trouble free operation
- | Impeller triple locking system ensures no damage for impeller due to back pressure
- | High mechanical reliability
- | Improved metallurgy.
- | Environment friendly
- | Maintenance free & noise free.
- | Aesthetic appearance.
- | Low maintenance with best inter changeability
- | Economic pricing with shortest delivery period.
- | Energy audit undertaken for pumps.
- | Prompt service back up.
- | Continuous improvement without affecting fixing dimensions for an efficient operation.



**Abirami  
Process Pump**  
TYPE : APP, APC,  
APN, APC - MV, APV

In Accordance with ISO 2858 / DIN 24256

60 Models in type APP ensures the Pump selection of any duty parameter within the operating range nearest to the best efficiency point.

#### DESIGN

Horizontal, Centrifugal, Single stage, Single entry, Radial split volute casing, Radial flow impellers semi-open / open type in accordance with DIN Standard.

#### APPLICATION

APP type pumps are especially designed to handle pulp stock up to 7% with wide volute to take the pulp as like water.

**Paper Industry :** APP type pumps are especially designed for handling pulp stock up to & 7% without applying correction factor for Head & Efficiency.

**Fertilizer Industry :** For acids Hcl, H<sub>2</sub>SO<sub>4</sub>, Ammonia and other acids and petrochemical.

#### Types of Impeller :

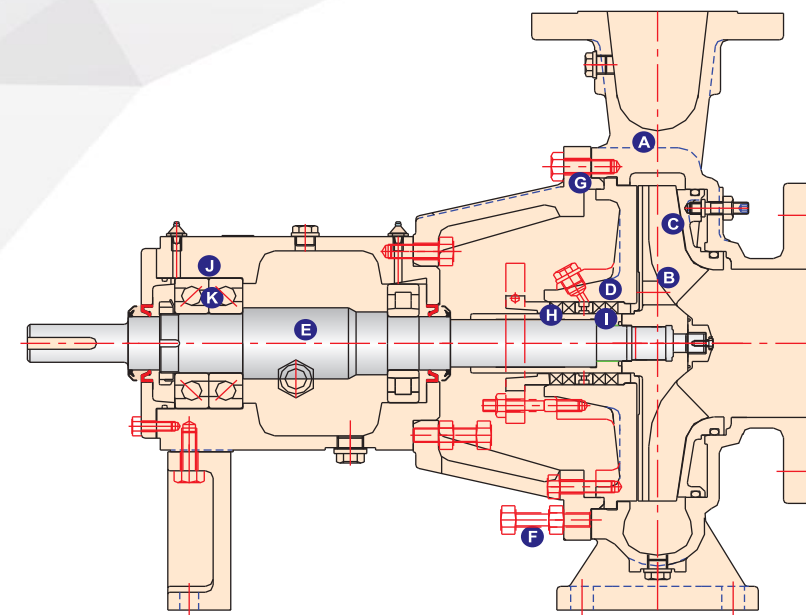


**APC-MV**  
Abirami Innovative Revolutionary Staggered Vane impeller design for Low pulsation service

#### OPERATING RANGE

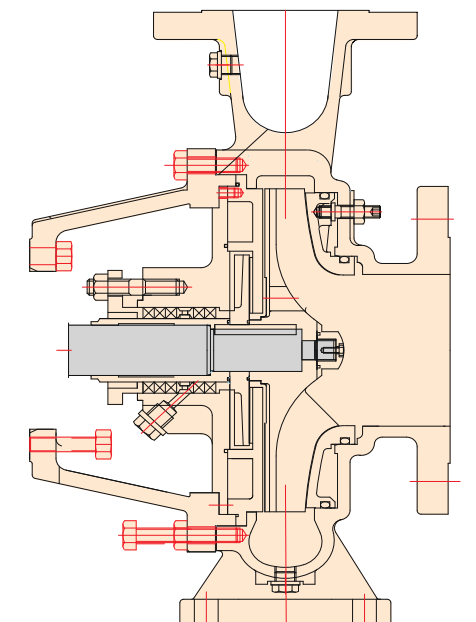
Capacity	:	Up to 7000 M <sup>3</sup> /hr.
Head in Mts.	:	Up to 150 Meters
Temperature	:	Up to 240° C
Working Pressure :		Up to 16Kg/Cm <sup>2</sup>
Speed in rpm	:	3000 Max.

**Slurry Application :** All type of Cement, Fly ash, filter cement, back water services



PUMP with GLAND PACKING

#### Sectional View of App



PUMP with HYDRAULIC SEAL

#### COMMON CONSTRUCTIONAL FEATURES OF APP / APO / AEC-PML / AEC-C PUMPS

##### A. VOLUTE CASING

Self venting casing prevents air lock with low radial force.

##### B. IMPELLER

Closed, Semi Open, Open, Non clog, Vortex & Closed type staggered multi vane Impellers to cover all application Industry.

Back vane relives pressure on st. box & reduces leakages.

Balancing holes are provided to Reduce axial trust.

##### C. RENEWABLE WEAR PLATE

Fitter with casing parallel to impeller profile to ensure the impeller clearnce and to achieve the designed efficiency of the pump. This also protects the liquid contact in the wear plate seating area of the casing.

#### BEARING ASSEMBLY DESIGN OF APP PUMPS

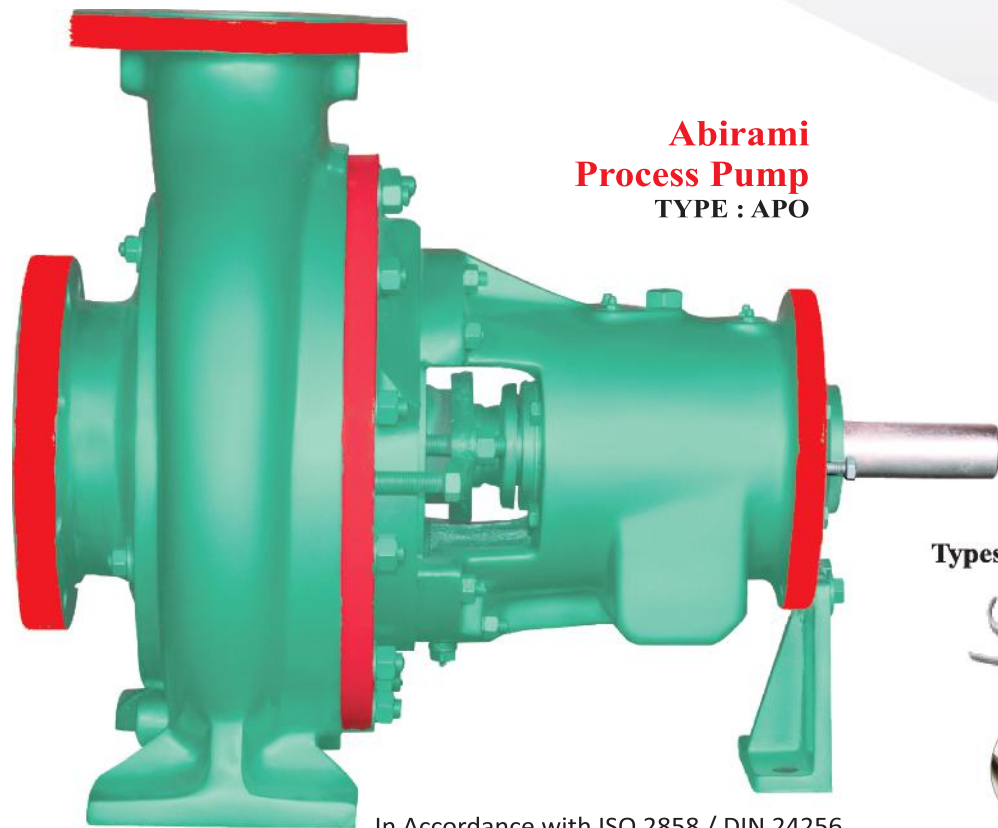
##### J. BEARING HOUSING

Sturdy bearing unit design. Non floating rotor both oil & grease can be used as a lubricant. Since more pump models are coming under same bearing unit only few spares need to be kept for maintenance.

##### K. BEARINGS

Heavy duty angular contact ball bearings in drive end 2 Nos. & 1 No. cylindrical roller / deep groove ball bearing in the non drive end. Suitable for grease & oil lubrication.

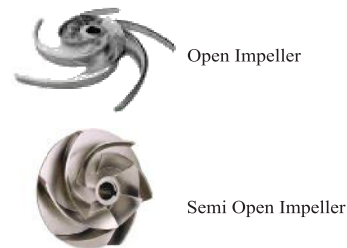
Also available with extra heavy duty design for special applications



**Abirami  
Process Pump**  
TYPE : APO

In Accordance with ISO 2858 / DIN 24256

**Types of Impeller :**



Open Impeller

Semi Open Impeller

Pump transfers pulp stock like water up to 7% consistency.

**DESIGN**

Horizontal, Centrifugal, Single stage, Single entry, Radial split volute casing, Radial flow impellers open type and the flanges in accordance with DIN / ANSI Standard. All 32 models in APO are categorized with 5 bearing units. Hence only minimum spares needs to be kept in stock.

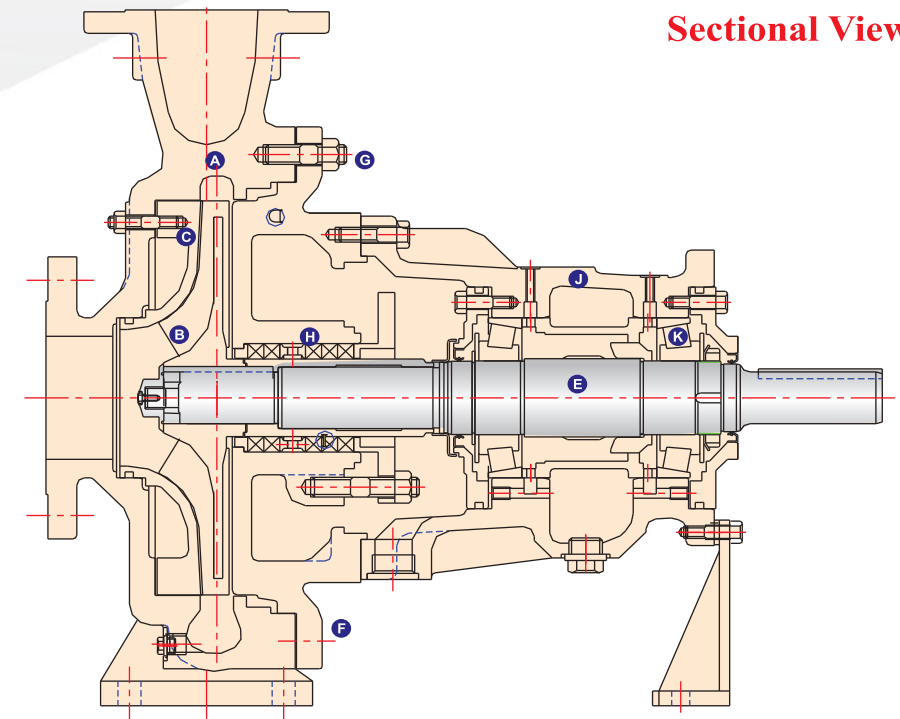
**APPLICATION**

**Paper Industry :** Apo type pumps are especially designed for handling pulp stock up to 7% without applying correction factor for Head & Efficiency.  
**Sugar Industry :** To pump sugar juice, bagas

**OPERATING RANGE**

Capacity : Up to 3500 M<sup>3</sup>/hr.  
Head in Mts. : Up to 150 Meters  
Temperature : Up to 240°C  
Working Pressure : Up to 16 Kg/Cm<sup>2</sup>  
Speed in RPM : 3000 Max.

**Fertilizer Industry :** Chemical, Slurry, Contaminated Liquids, Acidic / Alkalis/ nature



**Sectional View of APO**

**COMMON CONSTRUCTIONAL FEATURES OF APP / APO / AEC-PML / AEC-C PUMPS**

**D. STUFFING BOX**

Packed with gland packing for leakage free.

**E. HEAVY DUTY SHAFT**

Design according to ISO 5199. Shaft Deflection at stuffing box is less than 0.06mm. High strength carbon steel shaft. No. contact with the liquid (Dry shaft No.SS material required).

**C. BACK PULL OUT-DESIGN**

Pump rotor assembly can be removed without disturbing the suction & discharge flanges. When dismantling the pump the casing remain in the pipe line.

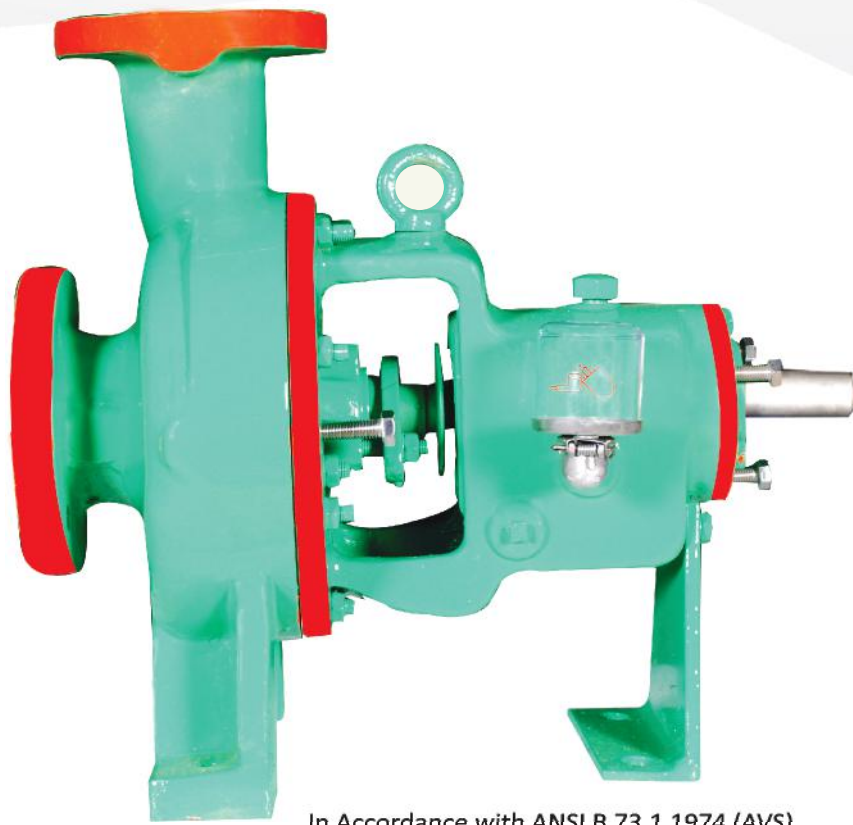
**BEARING ASSEMBLE DESIGN OF APO PUMPS**

**J. BEARING HOUSING**

Sturdy bearing unit design. Floating type rotor enable to adjust the impeller clearance with wear plate without dismantling the pump. Both oil & grease can be used as a lubricant. Since more pump models are coming under same bearing unit only few spares need to be kept for maintenance.

**K. BEARINGS**

2 Nos. taper roller bearings on both ends of the bearing housing to take care of axial and radial thrust.



In Accordance with ANSI B 73.1 1974 (AVS)

**Abirami  
Process Pump  
TYPE : AEC-PML**

**Types of Impeller :**



Semi Open Impeller

32 models in type AEC-PML ensures the pump selection of any duty parameter within the operating range nearest to the best efficient point.

**DESIGN**

Horizontal, Centrifugal, Single stage, Single entry, Radial split volute casing, Radial flow impellers semi open / open type and the flanges accordance with ANSI Standard.

**APPLICATION**

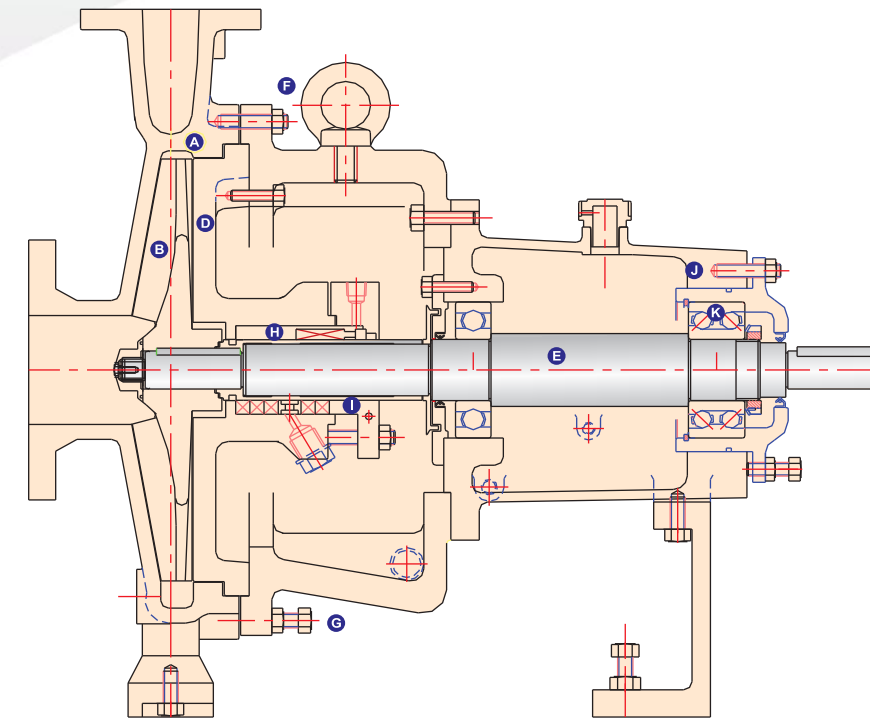
- Chemical Industry :** To pump corrosive, alkali, abrasive media.
- Sugar Industry :** To pump sugar juice, bagase slurries, effluent, water, thin & thick sludge.
- Fertilizer Industry :** For acids Hcl, H<sub>2</sub>, SO<sub>4</sub>, Ammonia and other acids and petrochemical.
- Food Industry :** Fruit Juice, Vegetable Slurry.

**OPERATING RANGE**

- Capacity : Up to 800 M<sup>3</sup>/hr.
- Head in Mts. : Up to 160 Meters
- Temperature : Up to 240°C
- Working Pressure : Up to 16 Kg/Cm<sup>2</sup>
- Speed in RPM : 3000 Max.



**Sectional View of AEC-PML**



**COMMON CONSTRUCTIONAL FEATURES OF APP / APO / AEC-PML / AEC-C PUMPS**

**B. IMPELLER OF AEC-PML**

Semi open / open type radial vane impellers with optimum efficiency. Back vanes relieves pressure on stuffing box & reduce axial thrust.

**G. JACK SCREWS**

Provision of jack screws in stuffing box, Lantern, Impeller, Bearing covers for easy dismantling.

**H. GLAND PACKING**

Standard stuffing box with gland packing, modification from packed gland to commercial mechanical seal is possible

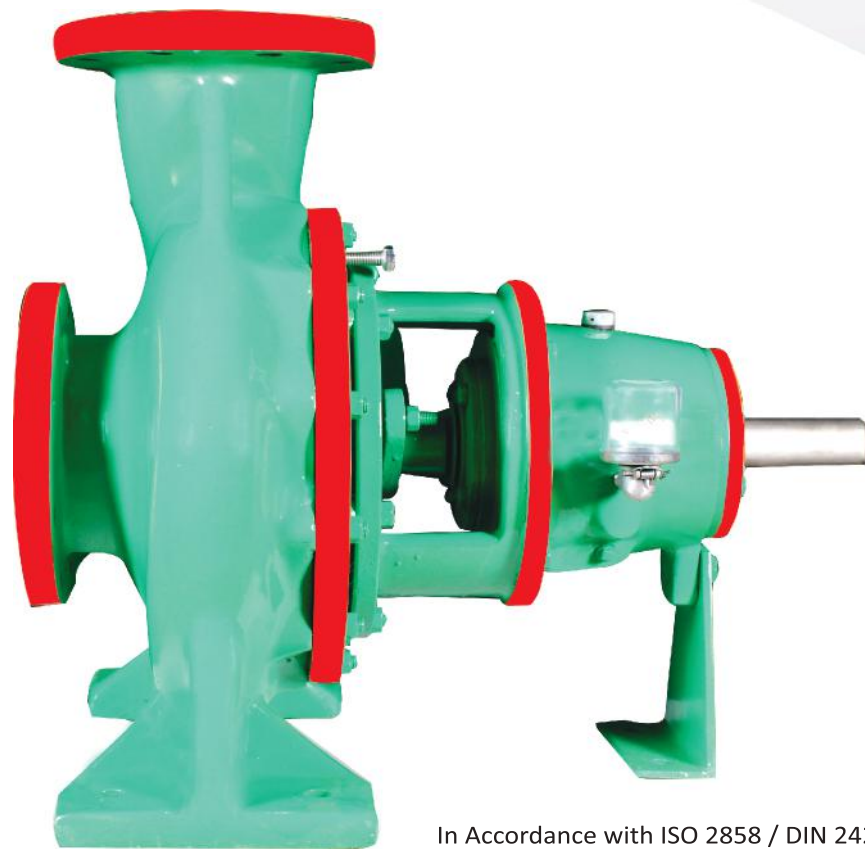
**BEARING ASSEMBLY DESIGN OF AEC- PML PUMPS**

**I. BEARING HOUSING**

Sturdy bearing unit design. Floating rotor enable to adjust the impeller clearance without dismantling the pump. Both oil & grease can be used as a lubricant.

**J. BEARINGS**

1 No. Heavy duty angular contact double row bearing on drive end & deep groove ball bearing 1 No. in the non drive end. With oil lubrication.



In Accordance with ISO 2858 / DIN 24256

**Abirami  
Process Pump**  
TYPE : AEC-C

**Types of Impeller :**



Closed Impeller



Mixed flow

32 models in type AEC-C are categorized with 4 bearing units. Hence only minimum spares inventory.

**DESIGN**

Horizontal, Centrifugal, Single stage, Single entry, Radial split volute casing. Radial flow impellers closed type and the flanges accordance with DIN Standard.

**APPLICATION**

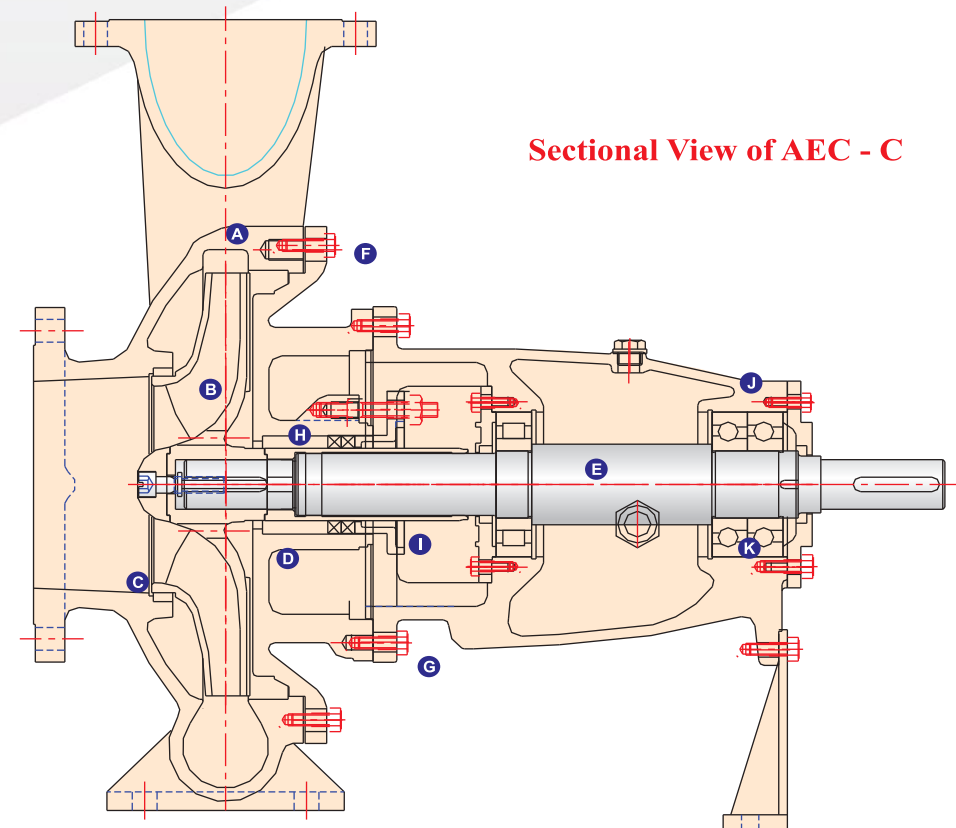
**Paper Industry :** For handling pulp up to 1% consistency, back water, fresh water, green / black liquor.

**Chemical Industry :** To pump corrosive, alkali, abrasive media.

**Food Industry :** Juices, ETP

**OPERATING RANGE**

Capacity	:	Up to 850 M <sup>3</sup> /hr.
Head in Mts.	:	Up to 160 Meters
Temperature	:	Up to 240°C
Working Pressure	:	Up to 16 Kg/Cm <sup>2</sup>
Speed in RPM	:	3000 Max.



**Sectional View of AEC - C**

**COMMON CONSTRUCTIONAL FEATURES OF APP / APO / AEC-PML / AEC-C PUMPS**

**B. IMPELLER OF AEC-C**

Close type radial vane impellers with optimum efficiency. Back vanes relieves pressure on stuffing box and reduce axial thrust.

**C. RENEWABLE WEAR RING**

Fitted with casing parallel to eye of the impeller to ensure impeller clearance and to achieve the designed efficiency of the pump. For AEC-PML Wear rings / Plate is not applicable.

**I. SHAFT SLEEVE**

Shaft sleeve with SS 410 / SS 304 properly grounded for low friction with gland packed and for increases life.

**BEARING ASSEMBLY DESIGN OF AEC- C PUMPS**

**I. BEARING HOUSING**

Sturdy bearing unit design. Non floating rotor both oil & grease can be used as a lubricant. Since more pump models are coming under same bearing unit only few spares need to be kept for maintenance.

**J. BEARINGS**

1 No. Heavy duty angular contact double row bearing on drive end & deep groove ball bearing 1 No. in the non drive end. With oil lubrication.



**Abirami  
Type Pump**  
Type : APM

32 Models in type APM are categorized with 4 bearing units. Hence only minimum spares inventory.

#### DESIGN

Horizontal, Centrifugal, Single Stage, Single entry, Radial Split volute casing, Radial flow impellers semi open type and the flanges accordance with ANSI Standard.

#### APPLICATION

**Paper Industry :** For handling pulp up to 4% consistency, back water, fresh, green / black liquor.

**Chemical Industry :** To pump corrosive, alkali, abrasive media.

**Food Industry :** Juices, ETP

#### BEARINGS

2 Nos. taper roller bearings on both ends of the bearing housing to take care of axial and radial thrust.

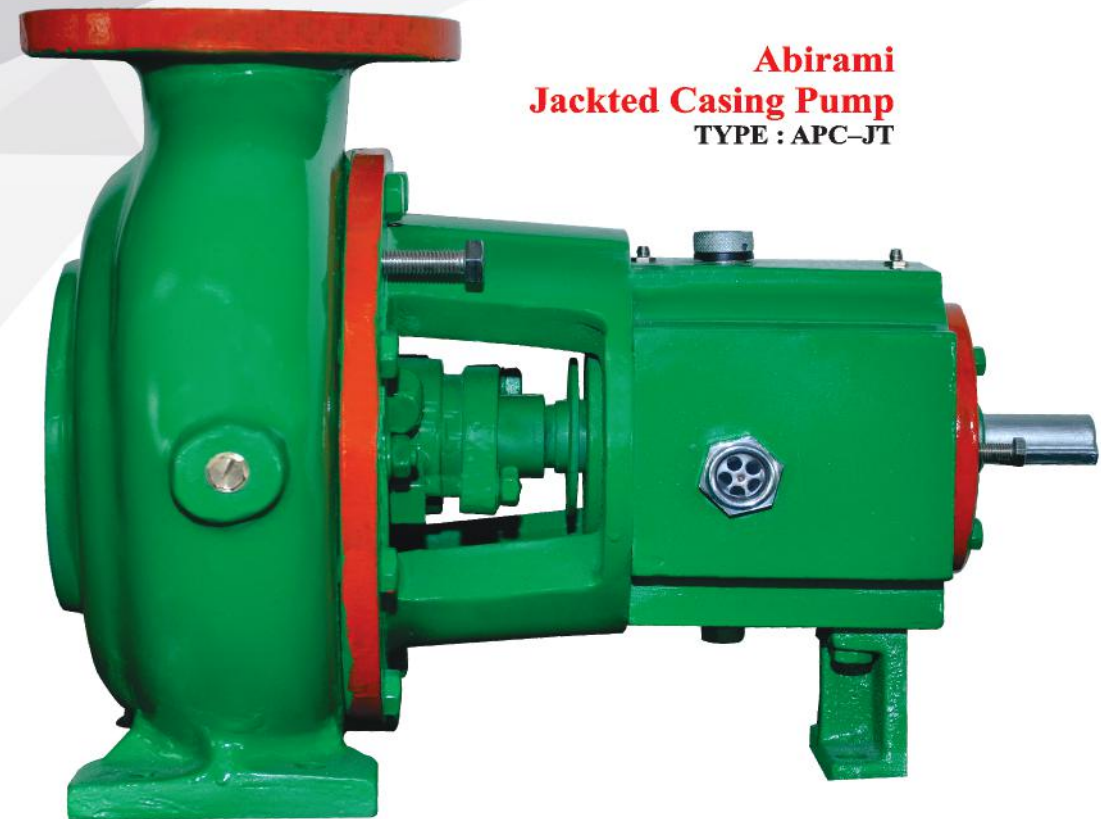
#### OPERATING RANGE

Capacity : Up to 850 M<sup>3</sup>/hr.  
 Head in Mts. : Up to 160 Meters  
 Temperature : Up to 240°C  
 Working Pressure : Up to 16 kg/Cm<sup>2</sup>  
 Speed in rpm : 3000 Max

Types of Impeller :



Semi Open Impeller



**Abirami  
Jacketed Casing Pump**  
TYPE : APC-JT

#### DESIGN

Chemical process pump with Jacketed casing for High temperature Application. Casing, st. box jacketing with triple bearing design

#### APPLICATION

Application: Fertilizer, solidifying liquids, to sustain the temperature of pumping liquid by giving steam circulation in the out side casing & stuffing box.

#### OPERATING RANGE

Capacity : Up to 800 Cum/hr.  
 Head in Mts. : Up to 160 Meters  
 Temperature : Up to 240°C  
 Working Pressure : Up to 25 Kg/Cm<sup>2</sup>  
 Speed in RPM : 3600 rpm Max

#### TYPE OF SEALING

Gland packing to with stand high temperature. Also Available with Mechanical seal of special cartridge type

**Lubrication :** Special Synthetic grade oil suitable for high temperature operation

Types of Impeller :



Semi Open Impeller

# Booster Master

## OPERATING RANGE

Capacity : upto 500 Cum/hr.  
Head : upto 100 Meters  
Maximum speed : 3000 rpm

## DESIGN

Vertical type with flange mounted motor, single stage, inline suction and discharge, radial split volute casing with radial flow impeller, Sealing type : Gland packing, Mechanical seal.

## APPLICATION

AIP Pumps are gravity suction heavy duty pumps with three bearing design specially designed for the low NPSH Application on line pressure boosting system, Boiler condensate water, high temperature service like Water dye liquor etc.,

## MATERIAL OF CONSTRUCTION

Pumps are available in all MOC Like Alloy CI, WCB, SS 304, SS 316 and other special Material of constructions. as per Abirami Material Execution chart.

**Lubrication :** Pre - filled Grease, No oil filling



Type of Impeller :



Closed Impeller

## Abirami Vertical inline Pump TYPE : AIP

## Abirami Gravity Flow Pump TYPE : AVO



## OPERATING RANGE

Capacity : upto 500 Cum/hr.  
Head : upto 100 Meters  
Maximum speed : 3000 rpm

## DESIGN

Vertical type with flange mounted motor, single stage, gravity suction, radial split volute casing with radial flow impeller, Sealing type : Gland packing, Mechanical seal.

## APPLICATION

AVO Pumps are gravity suction heavy duty pumps with three bearing design specially designed for the low NPSH Application like, Water Separator, vacuum application, Hot water pumping application, etc.,

## MATERIAL OF CONSTRUCTION

Pumps are available in all MOC Like Alloy CI, WCB, SS 304, SS 316 and other special Material of constructions. as per Abirami Material Execution chart.

## BEARINGS

Heavy Duty Bearings 2Nos on drive end & 1No on non drive end

**Lubrication :** Pre - filled Grease, No oil filling



Types of Impeller :



Semi Open Impeller



**Abirami  
Vertical Cantilever Pump**  
TYPE : AVC



**APPLICATION**

Vertical pumps are most critical pumps for the application where the liquid to be pumped from sump pit, reservoir, Pont, etc with out any priming problem. Also it protects the atmosphere as there is no leakage. Also require less ground space as the motor side is vertical orientation. No need for permanent Civil foundation arrangement

**OPERATING RANGE**

Capacity : Up to 1800 Cum/hr.  
Head in Mts. : Up to 100 Meters  
Temperature : Up to 180°C  
Working Pressure : Up to 16 Kg/Cm<sup>2</sup>  
Speed in RPM : 1500 Max.

**Abirami Vertical  
Extended Shaft Pump**  
TYPE : AVP



**Abirami  
Vertical Slurry Pump**  
TYPE : AVS



**ABIRAMI Heavy duty AVC** vertical Cantilever pumps are Energy efficient, closed/open/semi open/non clog impeller to suit any sump pit pumping. Maximum vertical setting height 1.5 Meters. How ever the same can be extended up to 2 Meters by extending suction pipe. Pump can be supplied to any MOC suited to the application.

**ABIRAMI Heavy duty AVP** vertical extended shaft pump are suitable to handle, water, chemical, petrochemical, slurry, ETP etc. .

Pumps with closed/open/semi open/non clog impeller to suit any sump pit pumping. The Maximum shaft length up to 3 Meters in single shaft design and 6 meters in multi shaft design with self or external lubrication arrangements.

**AVS Heavy duty** vertical slurry pumps to handle coal, ash, cement, sand and other slurry service. Single shaft design with Special MOC of wetted parts in Hard chrome steel, Ni hard etc.



**Abirami Water Pump**  
TYPE : AGS

**WATER MASTER**

Type of Impeller :



Closed Impeller

**DESIGN**

Horizontal, Centrifugal, Single stage, Single entry, Radial split volute casing / closed impeller.  
Construction with two No. Ball bearing on drive end & non-drive end each.

**LUBRICATION**

Oil/Grease

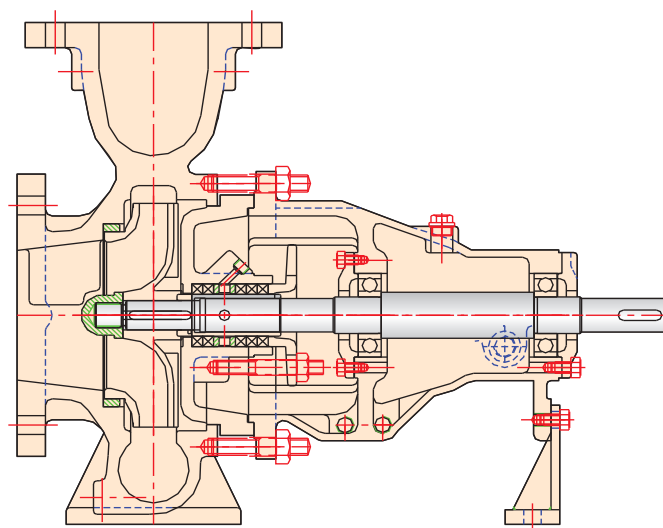
**APPLICATION**

Water. Back water, all types of clear liquid, acids, corrosive alkali, abrasive media, liquid with traces of fibers, pulp consistency up to 1.2%.

**OPERATING RANGE**

- Capacity : Up to 450 M<sup>3</sup>/hr.
- Head in Mts. : Up to 100 Meters
- Temperature : Up to 120°C
- Working Pressure : Up to 16 Kg/Cm<sup>2</sup>
- Speed in RPM : 3000 Max.

**Sectional View of - AGS**



*Varaaga*

**Abirami Pump**  
TYPE : VARAGA

**ADVANTAGES**

Submersible type, hence no need of priming heavy duty & trouble free.  
Twin impeller design, (Agitation & pumping)  
Handles Solid size up to 50 mm.

**AVAILABLE RANGE**

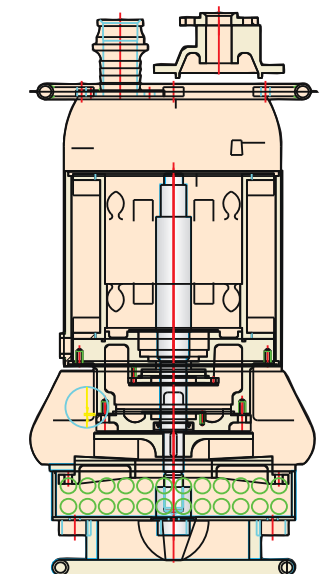
Upto 100 Hp

**OPERATING RANGE**

- Capacity : Up to 400 M<sup>3</sup>/hr.
- Head in Mts. : Up to 40 Meters
- HP/speed : Up to 100
- Application : Sludges, ETP, Sand, Coal slurry pulp etc.,



**Sectional View of VARAGA**



**Self Cooled Motor**

VARAGA is new product from Abirami Pumps lab. This pump is most special pump for the industries & domestic service as below :

**INDUSTRIAL SERVICE**

Handling pulp, effluent, sludge, contaminated liquid, sewage etc. which are most critical services in industries. Also these pumps can be used for river intake water application. Where in during summer season water level will be very low, so the pump has to handle water with sand slurry.

**DOMESTIC SERVICE**

Due to the heavy population in cities, apartment type housings are developing very much. In this waste water, sewage water, kitchen wastes & other sanitary wastes disposal are the biggest challenge. This type of pump is ideally suitable to solve the waste water disposal system.



**Air Cooled Motor**

Type of Impeller :



Semi Open Impeller    Open Impeller    Non clog    Vortex



**Abirami  
High Pressure Pump  
TYPE : AHP**

**Abirami Vertical  
High Pressure Pump  
Type : AHPV**



Multistage High Pressure Centrifugal In-line design enables installation of the pump in horizontal one pipe systems. Flange or with Victaulic coupling with equally sized suction and discharge ports. Stage construction with Stainless Steel impellers, diffusers and outer tube, Pump shaft and Motor shaft are of IEC Standards. All wetted parts of pump are made of high grade corrosion resistant stainless steel. These Pumps are driven by Totally Enclosed Fan Cooled (TEFC) high efficiency AC Induction motors.

**OPERATING RANGES**

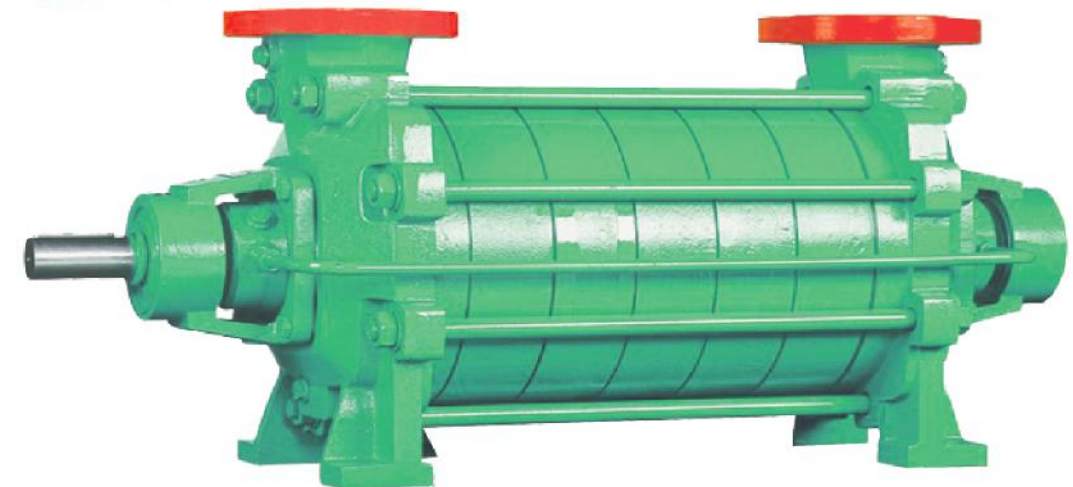
Capacity Up To 200 m<sup>3</sup>/Hr  
Head Up To 300 Meters(30Bar)  
Speed 2900 RPM Max.  
Delivery DN25 (1") to DN 150 (6")

**FEATURES**

- Energy Efficient
- Compact and Aesthetical Design
- Corrosion Resistant
- Reliable Sealing
- Easy Maintenance
- Durable
- Light Weight
- Low Noise Level

**APPLICATIONS**

- Water Supply
- Fire Fighting
- Industrial Pressure Boosting
- Liquid Transfer
- Water Treatment
- Building Industry
- Dairy
- Irrigation
- Power Plants



In Accordance with DIN / API

**DESIGN**

Horizontal, Centrifugal, Multi Stage, Single Entry, Barrel type with closed impeller construction with two row self aligning ball bearing on non-drive end & single row bearing on drive end.

**APPLICATION**

High pressure, water spray, boiler feed pump, sprinkler irrigation, shower cleaning, sealing water.

**OPERATING RANGE**

Capacity : Up to 100 M<sup>3</sup>/hr.  
Head in Mts : Up to 400 Meters  
Temperature : Up to 120°C  
Working Pressure : Up to 40kg/Cm<sup>2</sup>  
Speed in Rpm : 3000 Max.

**LUBRICATION**

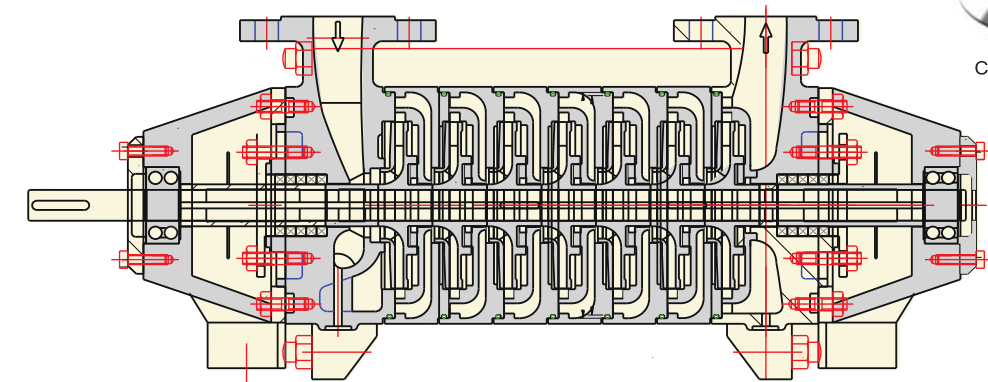
Grease Lubricated

Type of Impeller :



Closed Impeller

**Sectional View of AHP**



## Abirami Dosing / Metering Pumps

Type : ADSC  
Plunger / Diaphragm Pumps  
SPSimplex / Multiplex



### Design features

Capable of delivering precise volume of liquid in a specified time  
Study pressure @ varied operating flow  
Turn down ration: 10:1  
Steady state Accuracy of +-1%  
Compatible with most fluids

### Operating Parameter

Flow : 0.3 to 6000 LPH  
Operating pressure : 3 to 400Kg/cm<sup>2</sup>

### Wetted Parts MOC

Ss316, Hastalloy C, PTFE, GFT, PP (or)  
Any optional Machinable MOC

### Application:

Chemical, ETP, Food & Beverage, Power Plant, Pharma, Paint,  
Marine, Food, Sugar, Steel, Oil Sewage and utility

Type : ADEP  
Electronic Dosing Pump  
High Precision Flow control



### Design Features

High precision liquid handling flow through electronic system  
Electronically operated mechanically actuated diaphragm. Maintenance free, handy and compact  
Study state accuracy +-5%

### Operating Parameter

Flow: Max: 30 LPH  
Pressure: 10 Kg/cm<sup>2</sup> Max  
Wetted parts MOC:  
PP, PVT, SS316

## Abirami Gear Pumps

Abirami Gear Pump  
Type : AGP-I  
(Internal Cooling)



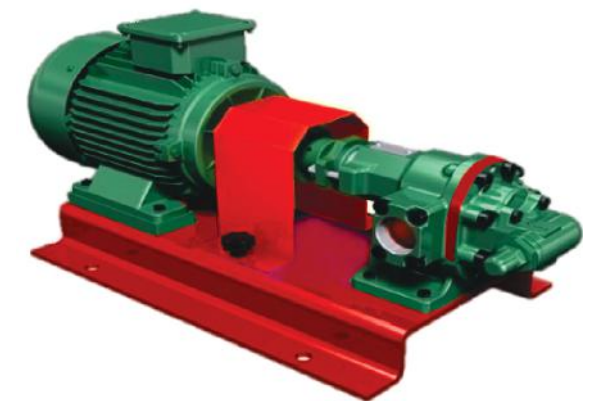
### Description

Gear is positive displacement (PD) pump most suitable for high viscose liquids. Operating viscosity from 1CP to 100000CP

### Internal Gear Pump

Preferred for shear-sensitive service liquids such as food stuffs, paints, soaps & Hygiene applications

Abirami gear pump  
Type : AGP-E  
(External cooling)



### External Gear Pump

Best suitable for sustaining high pressure upto 3000psi. Better suction capabilities for high viscous liquid handling

### Operating Range

Flow: 6 m<sup>3</sup> /hr  
Pressure: 10 kg/cm<sup>2</sup>

Flow: 18 m<sup>3</sup> /hr  
Pressure: 20 kg/cm<sup>2</sup>

**Abirami Progressive  
Cavity Pump  
Type : ASP**



**FEATURES**

- Steady and non-pulsating flow
- Positive displacement pumping
- Abrasion resistance pumping parts with resilient rubber stator and hard chrome plated rotor
- Naturally self priming as the suction is on top
- Can be coupled with Electric Motor, Gear motor and engine

**Operating Parameter**

Flow : up to 60 M<sup>3</sup>/hr; Head : up to 450 Meters

**Wetted Parts MOC**

Rotor Hard chrome plated SS 304, SS 316, SS 410  
Stator: Resilient rubber

**Application**

High viscose liquids  
Medium consistency pulp up to 16%  
All type of slurry  
ETP sludge etc

**ABIRAMI PUMPS TYPES**

- APP** → process pump with Semi open impeller for handling pulp stock Up to 7% consistency with heavy duty three bearing design.
- APC** → Process pump with closed impeller to handle clear liquids and to handle pulp stock up to 1.5% with Heavy duty three bearings.
- APN** → Process pump with open & vortex impeller to handle clear Sludge and contaminated liquid with Heavy duty three bearings.
- AEC-C** → Chemical Process pumps with closed impeller to handle clear Liquid water, Back water, CC application.
- AEC-JT** → Chemical process pump with Jacketed casing for High temperature Application. Casing, st. box jacketing with triple bearing design
- AEC-PML** → Chemical Process pump with Semi open impeller to handle Chemical , Slurry, sludge and liquid with solids.
- APM** → Chemical Process pump with Semi open impeller to handle Chemical , Slurry, sludge and liquid with solids. The pumps with Triple bearing Design.
- AIP** → Vertical on line Booster pumps booster water applications in Closed impeller construction with three bearing design
- AVO** → Gravity Suction pumps for with open impeller to handle where the NPSH Available is less. Pump with open impeller heavy duty Three bearing design.
- AVC** → vertical Cantilever pumps are Energy efficient, closed/open/semi open/non clog impeller to suit any sump pit pumping.
- AVP** → vertical extended shaft pump are suitable to handle, water, chemical, petrochemical, slurry, ETP etc.
- AVS** → vertical slurry pumps to handle coal, ash, cement, sand and other slurry service.
- AHP** → High Pressure multistage pumps with Balancing Disc arrangement With thrust bearing springs
- AGS** → Water pump to handle clear water, acidic water and process water
- VARAGA** → Submersible underwater pump to handle slurry, sludge, ETP sludge, Sewage Treatment application etc. Heavy duty Mechanical seal type
- AHPV** → ABIRAMI Vertical Multistage pumps are high efficient, vertical impeller mounting inline suction and delivery to handle water, boiler feed, shower wash, condensate and sprinkler etc
- ASP** → ABIRAMI Progressive cavity pumps Single/twin rotor type helical pumps with soft stator heavy duty design to handle high viscose and slurry pumping
- ADSL** → ABIRAMI ADS type pumps are Mechanically actuated Simplex / Multiplex design plunger/diaphragm pumps for chemical dozing service
- ADEP** → Mechanically actuated Electronic dozing pump for low volume dozing
- AGPE** → ABIRAMI external gear pump specially designed to handle high viscose liquids, high pressure and less capacity operation
- AGP-I** → ABRAMI Internal gear pump specially designed to handle high viscose, fruit pulp, for free flow of liquids

**All the above pumps flanges can be manufactured  
as per DIN/ANSI / BS Standard**

## MATERIAL EXECUTION CHART

Part Name	Am1	Am2	AM3	AM4	AM5	AM6	AM7	AM8	AM9	AM10
Volute casing	CI	CI	A.CI	C.S.	CF8	CF8M	A.20	H.C.	A.890 3A	HCS
Stuffing box	CI	CI	A.CI	C.S.	CF8	CF8M	A.20	H.C.	A.890 3A	HCS
Impeller	CI	CF8	A.CI	C.S.	CF8	CF8M	A.20	H.C.	A.890 3A	HCS
Pump shaft	4140	4140	4140	4140	4140	4140	316	316	4140	EN8
Shaft sleeve	410	410	410	410	304	316	A.20	H.C.	A.890 3A	HCS
Lantern ring	410	410	410	410	304	316	A.20	H.C.	A.890 3A	410
Gland packing	TIGA	TIGA	TIGA	TIGA	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Fastners	EN8	EN8	EN8	EN8	304	316	316	316	304	304

\*A.890 3A - Duplex SS

## ONLY APPLICABLE FOR AEC-C / APC PUMPS

Wear Ring	CI	CF8	A.CI	C.S.	CF8	CF8M	A.20	H.C.	A.890 3A
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Other material standard also accepted on request

LIQUID DETAILS		OPERATING PARAMETER	
1. Liquid Pumped		Capacity	M <sup>3</sup> /h., LPS, GPM
2. Temperature	In deg°C	Head	MLC / MWC
3. Specific Gravity		Pulp Consistency	IN%
4. Viscosity	Cp / Cst	Pump rpm suggested	
5. PH Value		Existed pipe size	If pipe line is installed

## ABIRAMI SERVICE TO PROCESS INDUSTRIES

Paper on power management in paper industry on stock pumps.  
 Paper on pulp, power, pump (Power management part 2).  
 Energy study on stock pumps and system carried out in more than hundred mills.  
 Training programme on pump maintenance.

## Types of Industries Covered

### CHEMICAL INDUSTRIES

To handle all type of chemicals, alkali slurry, process water, Dyeing chemicals ETP Filter press, sludge etc.,

### PETRO CHEMICALS

To handle chemicals, slurry, water, High temperature liquids and Effluent.

### PULP & PAPER INDUSTRIES

Complete pumps for Fresh water, Pulp stock upto 7%, Process water, approach Flow Fan pumps, CC pumps etc & Utility pumps, Water separator, couch pit etc. Condensate, Shower pumps.

### SUGAR INDUSTRY

To pump sugar juice, slurries, effluent, water, thin & thick sludge

### WATER SERVICE

Fresh water, Contaminated water, Brine solution, Acidic water & High pressure service, Cooling tower, hot condensate

### ASBESTOS INDUSTRIES

To handle asbestos slurry, Cement slurry, Ash Slurry, Back water, Booster, Fiber cone, waste dissolver etc.

### CEMENT INDUSTRIES

To handle cement slurry, Water and other chemicals.

### FOOD INDUSTRIES

To handle Fruits, Vegetables. slurry

### IRON & STEELS

All Fluid & slurry transfer