

SEMS

GROUP

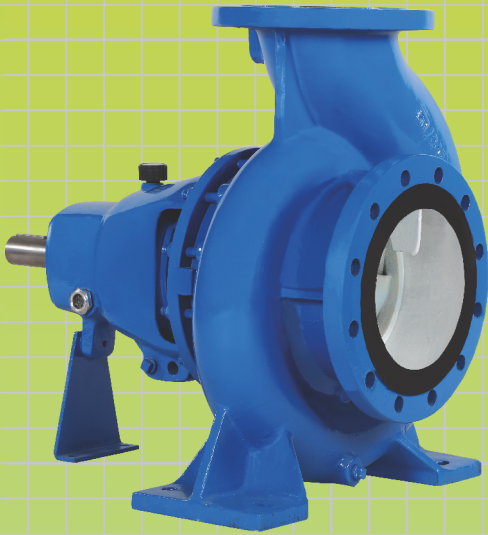


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CENTRIFUGAL WATER PUMPS-TYPE WP DIN 24255 / EN 733



OPERATING RANGE

Capacity	: Up to 550 M ³ /Hr
Head	: Up to 100 Mtrs (328 Feet)
Temperature	: Up to 90°C (194°F)
Casing Pressure	: Up to 16 Kg / cm ²
Pump Size	: DN 32 mm to DN 150 mm
Speed	: Up to 3600 rpm
Direction of rotation	: Clock wise from Drive End
No of models	: 37 Models

DESIGN

Horizontal Back Pull Out Design Pumps. Closed Impeller construction with two deep groove ball bearing and designed in accordance with the Flange Standards of DIN 2533 / ANSI B 16.5 Bearings are Grease lubricated and Oil lubrication is optional.

SALIENT FEATURES

- Back Pull Out Design
- Steady Flow
- High Efficiency
- Sturdy Construction
- Low NPSH
- Noise & Maintenance Free
- Environment Friendly
- Shaft Deflection Below 0.05mm
- Bearing Life – More Than 17000 Operating Hours*

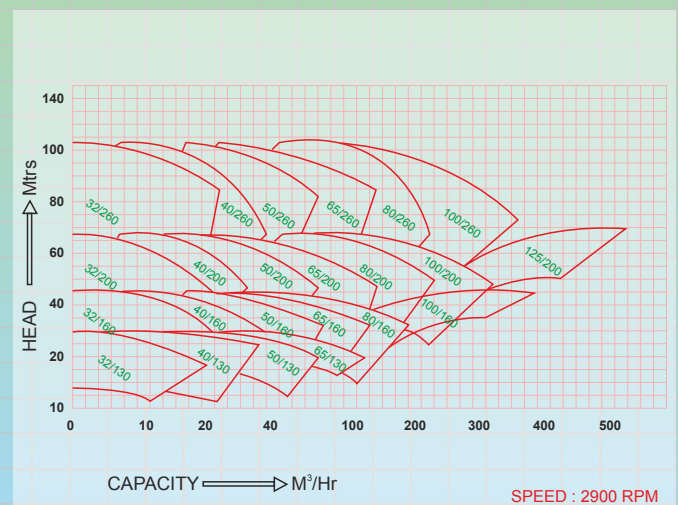
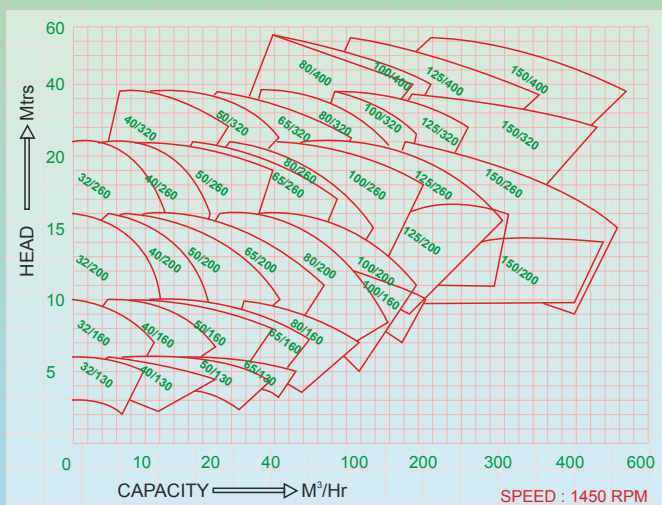
APPLICATIONS

WP Type pumps are used in Air – Condition Plants, Fire Fighting Applications, Food process Industry, Sugar Industry, Paper & Pulp Industry, Dyeing Industry, Steel Plants, Sea Water Desalination Plants, Power Stations and Absorption Plants in Environmental Engineering & Dewatering purpose.

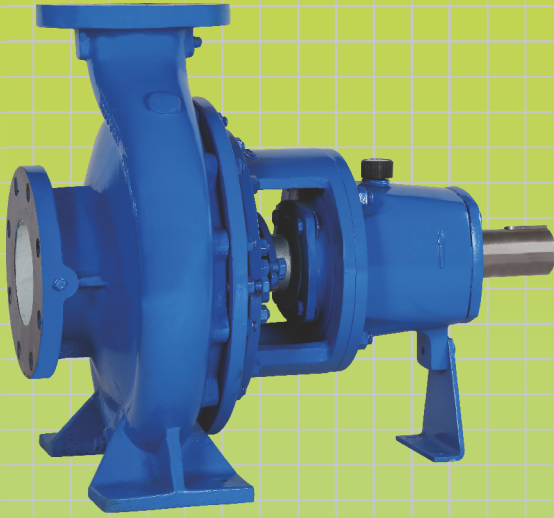
Handling of all types of Clear – Non Aggressive Liquids, Condensate Water up to 90°C, Irrigation, General Water Supply in Agriculture & Etc.

MATERIAL OF CONSTRUCTION

Graded CAST IRON, 2% NICI, BRONZE, WCB, SS 304 & SS 316



CHEMICAL PROCESS PUMPS-TYPE CP TO DIN 24256 / ISO 2858



OPERATING RANGE

Capacity	: Up to 900 M ³ /Hr
Head	: Up to 140Mtrs (459Feet)
Temperature	: Up to 500°C
Casing Pressure	: Up to 16 Kg / cm ²
Pump Size	: DN 32 mm to DN 200 mm
Speed	: Up to 2900 rpm
Direction of rotation	: Clock wise from Drive End
No of models	: 34 Models

DESIGN

Horizontal Back Pull Out Design Pumps. Closed Impeller construction with two deep groove ball bearing and designed in accordance with the Flange Standards of DIN 2533 / ANSI B 16.5. Bearings are oil lubricated and Grease lubrication is optional.

SALIENT FEATURES

- High Efficiency
- Sturdy Construction
- Low NPSH
- Noise & Maintenance Free
- Environment Friendly
- Shaft Deflection Below 0.05mm
- Bearing Life – More Than 17000 Operating Hours*

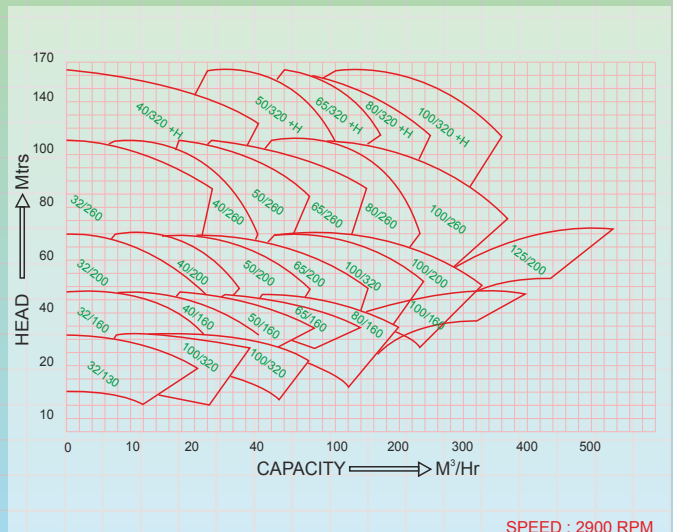
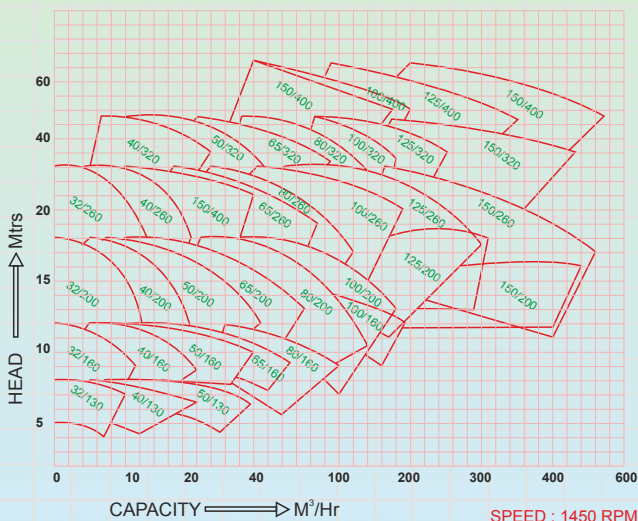
MATERIAL OF CONSTRUCTION

Graded CAST IRON, 2% NICKEL, BRONZE, WCB, CA 15, SS 304, SS 316, SS317L, CD4MCU, ALLOY 20, HASTALLOY B.

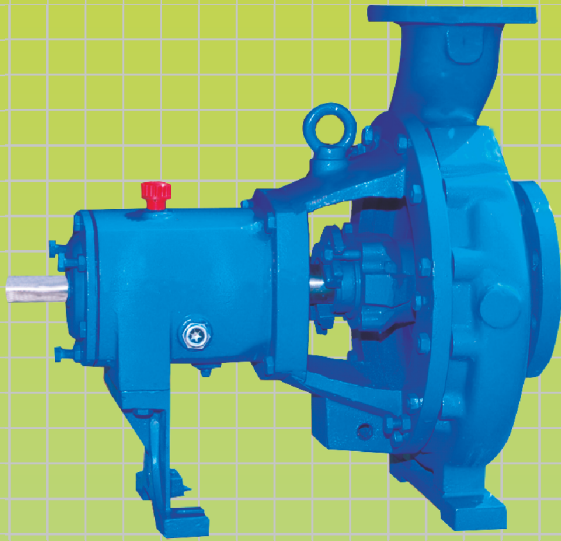
APPLICATIONS

CP Type pumps are used in Chemical & petrochemical Industry, Food Industry, Dyeing Industry, Sugar Industry, Paper & pulp Industry, Steel Plants, Sea Water Desalination Plants, Power Stations and Absorption Plants in Environmental Engineering.

Handling of all types of Clear – Clear liquids, Acids, Dyes, Hydrocarbons, Chlorinated Liquor, Black Liquor, Condensate Water, Pulp (Consistency up to 1%) Etc.



CHEMICAL PROCESS PUMPS-TYPE ACH TO ANSI B 73.1



OPERATING RANGE

Capacity	: Up to 600 M ³ /Hr
Head	: Up to 180 Mtrs (590 Feet)
Temperature	: Up to 200°C (392°F)
Casing Pressure	: Up to 16 Kg / cm ²
Pump Size	: DN 25 mm to DN 200 mm
Speed	: Up to 2900 rpm
Direction of rotation	: Clock wise from Drive End
No of models	: 30 Models

DESIGN

Horizontal Back Pull out Design Pumps with semi open Impeller construction with two deep groove ball bearing and designed in accordance with the Flange Standards of ANSI B 16.5.

SALIENT FEATURES

- Back Pull Out Design
- Steady Flow
- High Efficiency
- Sturdy Construction
- Low NPSH
- Noise & Maintenance Free
- Environment Friendly
- Shaft Deflection Below 0.05mm
- Simple External Axial Adjustment for Impeller
- Wear & Tear
- Bearing Life – More Than 17000 Operating Hours*

APPLICATIONS

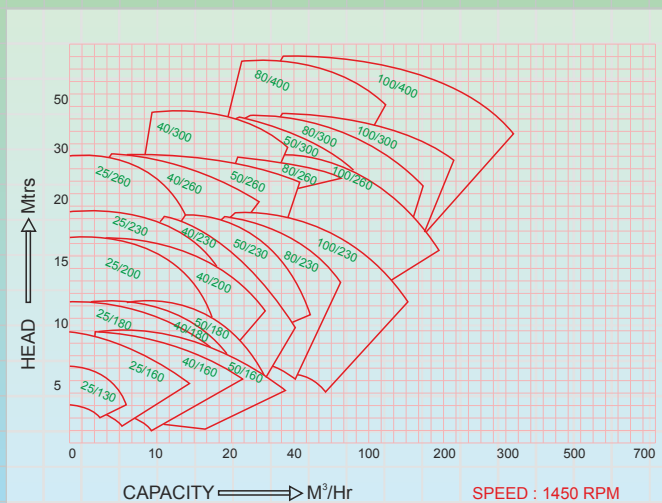
ACH Type pumps are used in Chemical & Petrochemicals Industry, Food Industry, Dyeing Industry, Sugar Industry, Paper & Pulp Industry, Fertilizer Units & Etc.,

Handling of all types of Liquids, Acids, Alkalis, Dyes, Hydrocarbons, Corrosive Slurries (Solids Up to 15mm), Green, Black Liquor, Pulp (Consistency up to 2%) & Etc

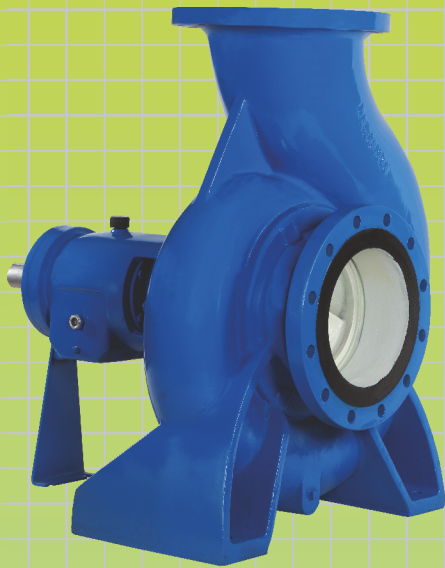
Bearings are oil lubricated and Grease lubrication is optional

MATERIAL OF CONSTRUCTION

Graded CAST IRON, 2% NICKEL, WCB, CA 15, SS 304, SS 316, SS317L, CD4MCU, ALLOY 20, HASTALLOY B.



PULP & PAPER STOCK PUMPS –TYPE PS TO DIN 24256



APPLICATIONS

PS Type pumps are used in Paper & Pulp Industry, Food Industry, Sugar Industry, Effluent Plants, Sea Water Desalination Plants, Power Stations, Chemical & Petrochemicals Industry, Power Stations and Absorption Plants in Environmental Engineering & Etc.,

Handling of Pulp & Paper Stocks Up to 7% Consistency Heavily Contaminated Liquids, Raw Sewages, Chlorinated Water & Etc

OPERATING RANGE

Capacity	: Up to 2500 M ³ /Hr
Head	: Up to 80 Mtrs (262 Feet)
Temperature	: Up to 140°C (284°F)
Casing Pressure	: Up to 22 Kg / cm ²
Pump Size	: DN 80 mm to DN 400 mm
Speed	: Up to 1750 rpm
Direction of rotation	: Clock wise from Drive End
No of models	: 30 Models.

DESIGN

Horizontal Back Pull Out Design Pumps. CLOSED and SEMI OPEN Impeller construction with taper roller bearings on both ends designed in accordance with flange standard of ANSI B 16.5

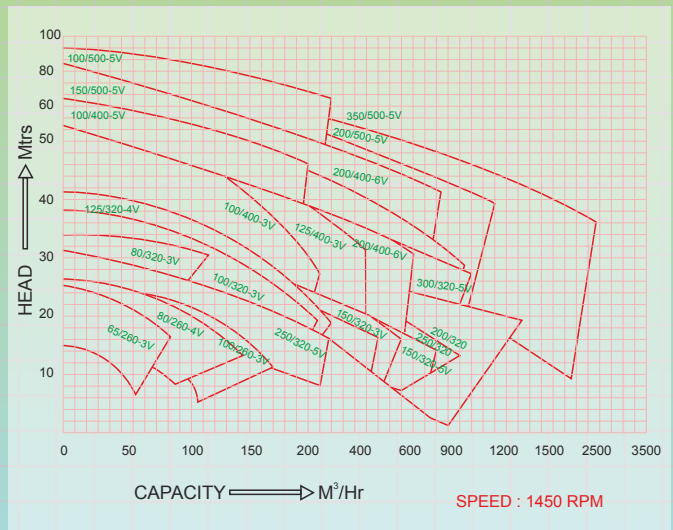
Bearings are oil lubricated and Grease lubrication is optional

SALIENT FEATURES

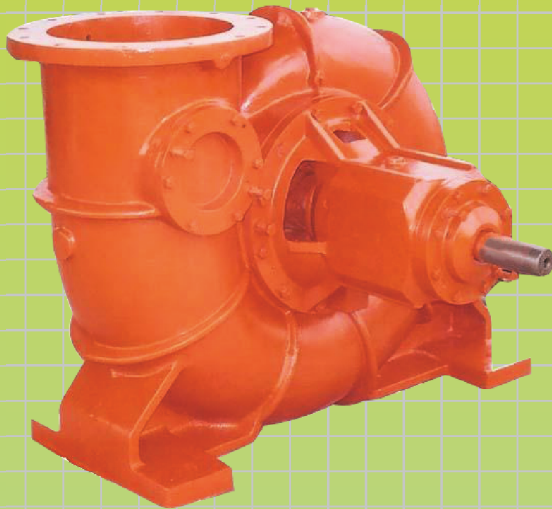
- Back Pull Out Design
- Steady Flow
- High Efficiency
- Sturdy Construction
- Low NPSH
- Noise & Maintenance Free
- Environment Friendly
- Shaft Deflection Below 0.05mm
- Simple External Axial Adjustment for Impeller
- Wear & Tear
- To Pump The Pulp As Like Water

MATERIAL OF CONSTRUCTION

Graded CAST IRON , 2% NICKEL, WCB ,CA 15, SS 304 ,SS 316,SS317L, CD4MCU, ALLOY 20,



MIXED FLOW PUMPS-TYPE MF TO DIN 24256



OPERATING RANGE

Capacity : Up to 3500 M³/Hr
Head : Up to 45 Mtrs (145 Feet)
Temperature : Up to 100°C (212°F)
Casing Pressure : Up to 16 Kg / cm²
Pump Size : DN 200 mm to DN 450 mm
Speed : Up to 1750rpm
Direction of rotation : Clock wise from Drive End
No of models : 10 Models.

DESIGN

Horizontal Back Pull Out Design Pumps. CLOSED and OPEN Impeller construction with Discharge branch arranged tangentially upwards/Horizontal. Bearings are oil lubricated and Grease lubrication is optional

SALIENT FEATURES

- Low Head And High Discharge
- Steady Flow
- High Efficiency
- Sturdy Construction
- Low NPSH
- Noise & Maintenance Free
- Environment Friendly

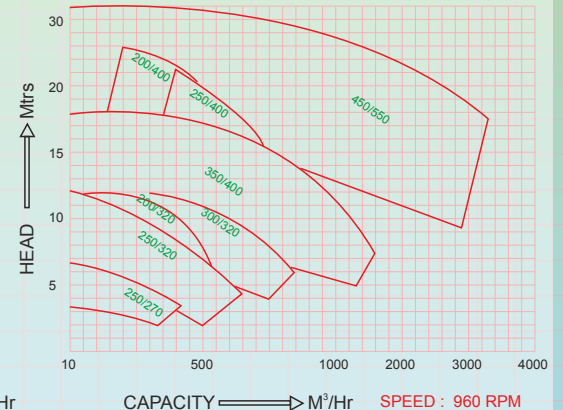
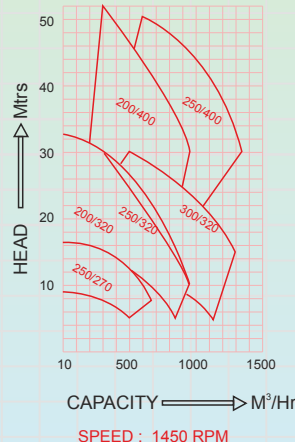
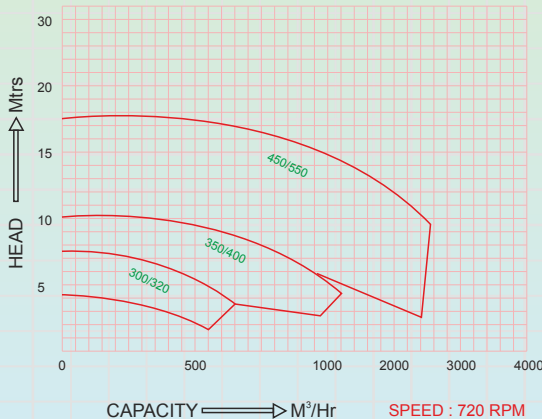
MATERIAL OF CONSTRUCTION

Graded CAST IRON, 2% NICI and BRONZE

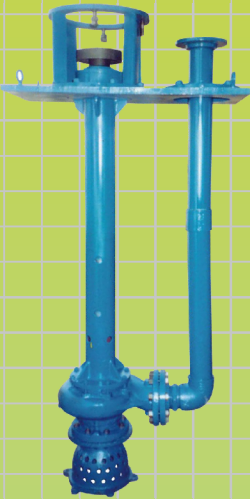
APPLICATIONS

MF Type pumps are used in Sugar Industry, Sea Water Desalination Plants, Power Stations, Steel Plants and Absorption Plants in Environmental Engineering & Etc.,

Handling of all types of Clear – Non Aggressive Liquids, Turbid or Slightly Contaminated Liquids, Raw Water, Sewage Water, Sea Water, Low Concentration Cellulose Suspensions & Etc



VERTICAL PUMPS-TYPE VO



APPLICATIONS

Vo Type pumps are used in Chemical & Petrochemicals Industry, Food Industry, Sugar Industry, Paper & Pulp Industry, Fertilizer Units, Granite Unites & Etc.,

Handling all types of Liquids, Acids, Alkalis, Dyes, Hydrocarbons, Corrosive Slurries, Waste Water, & Sludge water etc.

OPERATING RANGE

Capacity	: Up to 1400 M ³ /Hr
Head	: Up to 100 Mtrs (328 Feet)
Temperature	: Up to 120°C (248°F)
Casing Pressure	: Up to 16 Kg / cm ²
Pump Size	: DN 25 mm to DN 300 mm
Speed	: Up to 2900 rpm

DESIGN

Vertical pumps suspended with Closed and Semi Open Impeller construction for wet and dry pit applications. Over Hang Impellers up to 4 meters submersion depths, support bearings are grease lubricated and for intermediate bearings are lubricated by water.

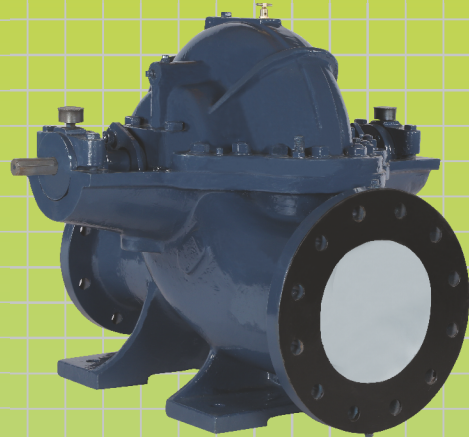
SALIENT FEATURES

- SPACE ECONOMY
- High Efficiency
- Sturdy Construction
- Self Priming
- Simple Mounting

MATERIAL OF CONSTRUCTION

Graded CAST IRON, 2% NICI, WCB, CA 15, SS 304, SS 316, SS317L, CD4MCU, ALLOY 20.

HORIZONTAL SPLIT CASE PUMP -TYPE HS



APPLICATIONS

HS Type pumps are used in Paper& Pulp Industry, Sea Water Desalination Plants, Cooling Towers, Mining, Fire Service, Municipalities, Oil Process, Petro chemical Sugar Industry, Power Generation & Etc.,

Handling of all types of Clear – Non Aggressive Liquids, Turbid or Slightly Contaminated Liquids, Raw Water, Sewage Water, Sea Water, Low Concentration Cellulose Suspensions & Etc

OPERATING RANGE

Capacity	: Up to 3500 M ³ /Hr
Head	: Up to 120 Mtrs (394 Feet)
Temperature	: Up to 150°C (212°F)
Casing Pressure	: Up to 16 Kg / cm ²
Pump Size	: DN 80 mm to DN 450 mm
Speed	: Up to 2900rpm
Rotation-	: Clockwise or Anticlockwise from drive end
No of models	: 25 Models.

DESIGN

Single stage or double stage with Double suction Volute design with horizontally split case type pumps.

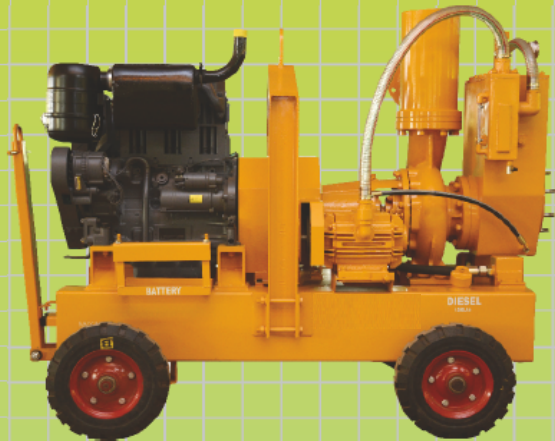
Flanged end Connections with closed impeller. Renewable wear rings.

Bearings are Grease lubricated.

MATERIAL OF CONSTRUCTION

Graded CAST IRON, 2% NICI, WCB, SS 304 & SS 316.

WELL POINT DEWATERING PUMPS-TYPE DWA



APPLICATIONS

DWA Type pumps are used in Waste water drainage systems like Mines, Constructions, Marine with muddy Water Contains solid Particles up to 30 mm.

OPERATING RANGE

Capacity	: Up to 1400 M ³ /Hr
Head	: Up to 30 Mtrs (98 Feet)
Temperature	: Up to 60°C
Casing Pressure	: Up to 16 Kg / cm ²
Pump Size	: DN 100 to DN 300 mm
Speed	: Up to 1750rpm
No of models	: 10 Models.

DESIGN

DWA Type pumps auto priming pumps coupled with Air cooled or Water cooled diesel Engine along with Skid mounting, trailer chassis. The discharge branch arranged tangentially upwards/ Horizontal. Bearings are Grease lubricated only.

SALIENT FEATURES

- Steady Flow
- Fully automatic priming systems allow the pumps prime and re prime while running.
- High Efficiency
- Sturdy Construction
- Simple Mounting
- Fuel cell is integrated with chassis

MATERIAL OF CONSTRUCTION

Graded CAST IRON, SS 304 & 316. Chassis and other Parts in MS.

AXIAL FLOW PUMPS TYPE KAS

APPLICATIONS

irrigation, Water Supply, Water Drainage, Water Level Regulation, Sump Drainage, Flood Protection

OPERATING RANGE

SIZE	M ³ /hr
16" - 406 mm	1980
18" - 457 mm	2600

BENEFITS

- High efficiency
- Propeller design with orientable blades
- Low maintenance activity

SALIENT FEATURES

- Pump column and structure built with mild steel. Bushing housings and fixed vane systems are constructed in EN8.
- Double profile suction cone made in cast iron to increase efficiency
- Assembled propeller built with cast stainless steel blades
- The propeller is balanced and polished
- Intake protection steel made grill to avoid the intake of foreign objects
- Stainless steel wear protection ring to avoid premature wear in the area influenced by the propeller.
- Stainless steel 304 shaft, supported by phosphorus bronze / bushings Nitrite Rubber bushings
- Exchangeable sleeves made in stainless steel 304 installed at the bushing wear areas.

