



## SCREW PUMPS : Progressive Cavity / Eccentric Screw Pumps

We, an ISO 9001:2015 certified company offers Progressive Cavity Pumps which are also commonly known as Eccentric Screw Pumps or Helical Rotor Pumps operate employing a unique pumping principle. A high precision metallic single helical rotor rotates inside a double helical resilient stator forming a uniform seal line & cavity which is maintained at stand still or during rotation. To cater to the various types of Industries, We offer the full range of Products which are categorized as under:

### ~ *AGP Series Screw Pumps :*

These pumps are made out of Cast Iron Pump Housing and Cast Iron Bearing Housing. Rotors of Hard Chrome Plated Alloy steel, Tool steel , SS 304, SS 316 and the rotating part are of Alloy Steel or Stainless Steel. The Rubber Stator is made out of Natural or Synthetic rubbers like Nitrile, EPDM, Hyplon, Silicon, Neoprene, Viton, and Butyle or Hi-Nitrile based on application.



### **Technical Parameters:**

- # Maximum Capacity: 250 M3/Hr    # Maximum Temperature: Up to 150' C
- # Maximum Pressure: 24 Kg/cm2    # Viscosity: Up to 100,000 cst
- # Solids Handling Capacity: up to 7-10%    # Max. Solid Size: up to 25mm

### **Salient Features:**

- Non-clogging: Handles solids in suspension or mixture containing high percentage of solids.
- Can work on Snore: Handles high percentage of air with liquid.
- Self-Priming: Inherently self- priming as foot valve not required.
- High Suction Lift: Low NPSH required, effective in high vacuum conditions.
- Minimal Internal Wear: Gentle handling of shear sensitive and abrasive products because of low internal velocity.

- Reversible: Suction and delivery ends can be interchanged by merely changing direction of rotation of the prime mover.
- Versatility: Handles abrasive, Shear sensitive and viscous materials, Solids in suspension and Air solid-liquid mixture.

### **Fluids Handled / Applications:**

Gypsum Sludge, Detergents, Caustic, Liquors, Oil, Chemical Slurry, Paint, Insecticides, Adhesives, Antifreeze Lubricants, Latex, Acetone, Dispersion, Colorants, Isopropanol Alcohol, Magnesium Hydroxide, Phenolic Resins, Phosphate, Spent Filter media/Resin, Corrosive Chemical Feed, Sludge, Oil/Water Separation, Drilling Mud Transfer, Treated Battery Applications, Multiphase Fluid Transfer, Latex, Chemical Metering, Mill Wastewater, Coating Colour, Starch Slurry, Cooked Starch, Flocculants, Lime Slurries, Thickened Digested Sludge, Alum Transfer, Activated Sludge, Scum and Grease, Coal Water, Wastewater, Clay and Mineral Slurries, Calcium Carbonate Slurry, Neoprene-Latex Compound, Photographic Emulsions, Polyester Blend, Retaminol, Titanium Dioxide, Paraffin, Paints and Inks, Cleaning Solutions, De-icing, Fluids, Explosives, Hazardous Wastes, Plastic, Gels, Calcium carbonate, Ferric chloride, Urea, Rubber, Lecithin, Methanol, Sodium chloride, Organic compound, Lube Oil, Crude Oil and Water Transfer, Polymer Flooding, Skimmed Oil, Pulp, Clay Slurries, Defoamers, Titanium Dioxide, Calcium Stearate, Surfactants, Pulp stock, Filter Cake Dewatering, Sampling, Sludge Transfer, Polymer Injection, Coal Oil Slurries, High Pressure Wash, Recovery, Fillers Like: Aluminium Sulphate, Bentonite, Resin size and China/Kaolin Clay

### **~ AGF Series - Quick Clean Hygiene Screw Pumps :**

Hygienic design pump with all metal parts in contact with liquid in smooth SS and stator of non contamination rubber, seamless body eliminating product retaining pockets. Shaft sealing by food grade gland packing / mechanical seal. IDF / SMS / equivalent end connections.



### **Technical Parameters:**

# Capacity: 50 M3/Hr # Temperature: Up to 150' C # Viscosity: Up to 5,000 cst # Solids Handling Capacity: up to 7-10% # Max. Solid Size: up to 25mm

### ***Salient Features:***

- All metallic parts in contact with the fluid are in smooth finish stainless steel
- Stator is of non-contaminating polymer which is resistant to oils and fat
- All internal contours are designed to be swept by the product flow or by a detergent when "in-line" cleaning
- Elimination of product retaining pockets avoids chemical or bacteriological contamination
- Simple construction allows quick dismantling
- Can work against high vacuum. Ideal for lifting viscous fluids from the vacuum pan.
- Low fluid velocities ensures gentle handling of shear sensitive fluids without damage
- Pulsation, turbulence or aeration-free metered flow proportional to speed
- Capacity varied simple variation of pump speed to match system parameters

### ***Fluids Handled / Applications:***

Apple pulp, Amla pulp, Mango pulp, Honey, Chocolate, Beer, Beverages, Biscuit dough, Butter oil, Cream, Curd, Dematerialised water, Edible gelatine, Fruit juice, Fruit pulp, Glucose, Ice cream, Jams, Latex, Liquor, Lotions and Creams, Malt extract, Medical formulations, Milk, Squashes, Sugar syrup, Tamarind extract, Tooth pastes, Tomato paste, Vegetable refined oil, Wine, Yeast, Yoghurt.

### ***~ AGW Series - Wide Throat Chemical & Hygiene Screw Pump:***

Hopper type suction inlet allows gravity flow of plastic viscous media on Augur cum coupling rod pushing viscous substances into pumping cavity. Standard pumps employ mild steel hopper pump casing with alloy steel rotating parts. For corrosive or hygienic duty, all contact parts will be in SS material. Shaft sealing by soft gland packing / mechanical seal. Delivery connection in BS, ISO, ASA, ANSI flanged ends and for hygienic applications, IDF /SMS or equivalent are used.



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## **Technical Parameters :**

# Capacity: 150 M3/Hr    # Temperature: Up to 150' C    # Solids Handling Capacity: up to 100 mm    # Solids Consistency: as high as 90%    # Viscosity: Up to 100,000 cst

## **Salient Features:**

- Suitable for all media up to most thick pulpy consistency with highest content of solid or fibrous material
- Open hopper type inlet with force feed screw upstream of rotor and stator
- Torsion-free metal bonded stator for increased stator life and higher efficiency per stage pressure
- Pulsation, turbulence or aeration free metered flow proportional to the speed
- Capable of developing up to 48 bar even at low pump speed
- Easy and quick maintenance, which does not require any special tools
- Temperature range from -40°C to +150°C

## **Fluids Handled / Applications:**

Aluminium Hydroxide Paste Asbestos Slurry, Butter, Cake-Mix, Chocolate Mix, Chawanaprash, Clay Slurry, Explosive Slurry, Formic Acid Slurry, Fruit or Vegetable Mash, Ghee, Grease, Grout Mix, Lecithin, Litho phone paste, Malt Mix, Minced Meat, Mash Grapes, Oil Paste, Paper Pulp, Paint Pre-mix, Pickle Mix, Pigment Varnish, Putty, Starch Slurry, Thick Coal Slurry, Undiluted Sludge, Yoghurt.

## **: Applicable in Industries :**

Bakery, Brewery, Confectionery, Construction, Chemical, Ceramics, Dairy, Dyestuff, Edible Oil, Explosives, Food Processing, Malt and Cocoa, Mining, Meat Processing, Paper & Pulp, Paint and Varnish, Sewage treatment, Soap and Detergent, Sugar, Starch, etc ,,,

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