SPECIFICATION MODY CHOPPER PUMPS

APPLICATIONS

The design of the Mody chopper pump ensures that fibrous waste and debris in suspension are cut into small pumpable segments allowing blockage free flow through the pump.

The unique solids cutting mechanism makes the Mody chopper pump suitable for many difficult, heavy duty pumping applications and guarantees substantial reduction in maintenance time and costs.

PERFORMANCE	
Flow Rate:	Up to 6600 GPM
Head:	Up to 328 feet
Operating temp:	Up to 133ºF (56ºC)
Speed:	1100, 1750 & 3600 RPM
Pump outlet dia:	3" to 14"
Rotation:	Clockwise when viewed from fluid inlet end of pump

CHOPPER MECHANISM

Mody chopper pumps have a channelled impeller with blades extended into a sharp edged cutting cone which rotates against a fixed, adjustable knife with a hardened steel blade.

ELECTRICAL DETAILS

- 3 phase motors
- 33' length of cable is standard
- Protection Class IP68
- Insulation Class F
- Direct on Line or Star Delta Starting
- Winding – 230/460/575V
- Frequency - 60Hz
- Outside of cable sealed by compressed grommet in cable entry gland
- Pumps are delivered with free end of cable fitted in a waterproof sleeve
- Dry well motors are efficiently cooled by the pumped liquid contained within a jacket, recirculating around the motor.
- Motors with other voltages and frequencies available upon request

MATERIAL SPECIFICATION	
Pump casing	Cast iron – ASTM A48 Class 35
Impeller	SG Cast Iron - BS2789 Grade 500/7
Fixed knife blade	Tool steel - BS4659 Grade B02 hardened and tempered to 40/42 HRC
Oil chamber	Cast Iron – ASTM A48 Class 35
Motor housing	Cast iron - ASTM A48 Class 35
Pump shaft	316 Stainless Steel

INSTALLATION OPTIONS

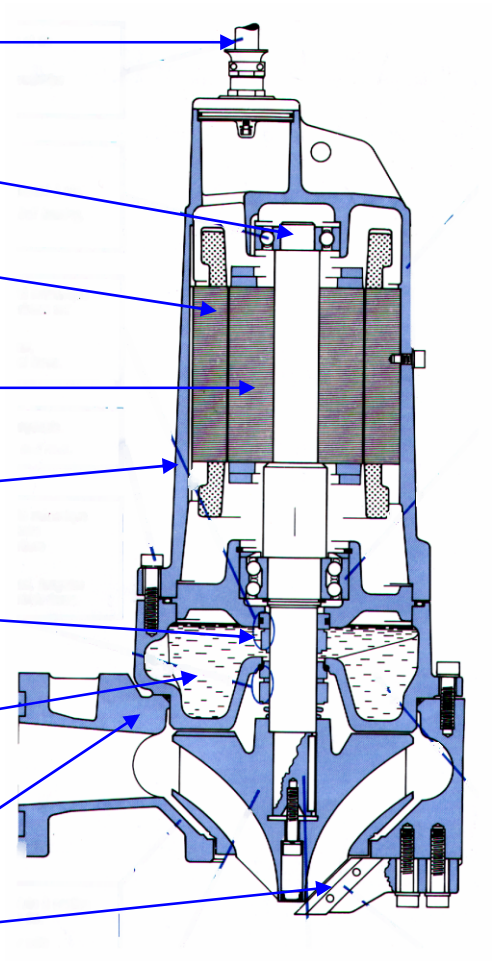
- "P" Adaptation: Stationary submersible mounted on a guide rail assembly.
- "S" Adaptation: Free standing horizontal or vertical submersible.
- "AJ" Adaptation: Dry well, vertically mounted complete with jacketed, submersible motor.
- "HJ" Adaptation: Dry well, horizontally mounted complete with jacketed submersible motor.
- "AN" Adaptation: Dry well complete with IP55 TEFC motor mounted vertically or horizontally.
- "V" Adaptation: Conventional motor mounted above the immersed pump and driving the pump via a vertical shaft.

SAFETY MONITORING

- Klixon type temperature sensors are built into the motor winding.
- Thermistors are available upon request.

OPTIONAL ITEMS

- Impeller strengthening with tungsten carbide.
- Fixed Discharge elbow and sliding bracket.
- Guide rail, 2", heavy wall thickness in galvanised steel or stainless steel.
- Lifting chain in galvanised steel or stainless steel.
- Universal adaptor which guarantees compatibility with all existing guide rail assemblies, elbows and piping.
- All pumps are available with Explosion Proof motors for Class 1, Div.1 Groups C & D.
- Sensors which detects moisture ingress into the motor housing.
- Sensor which constantly monitors the condition of the lower mechanical seal via a moisture probe in the oil chamber.



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