

SUBMERSIBLE DEWATERING PUMP *"Aldew"* Series





Satisfying Demands With Excellence

NON-CLOG SUBMERSIBLE DEWATERING-HIGH HEAD SERIES "ALDEW" SERIES

LIFTING HOOK
Two/Three Nos. Heavy duty Lifting Hook provided for easy to move and easy to proper handling the pump set.

ROTOR
The "HET" pump uses high quality pressure die-cast rotor with provision of balancing ring. (Copper Rotor provided on request)

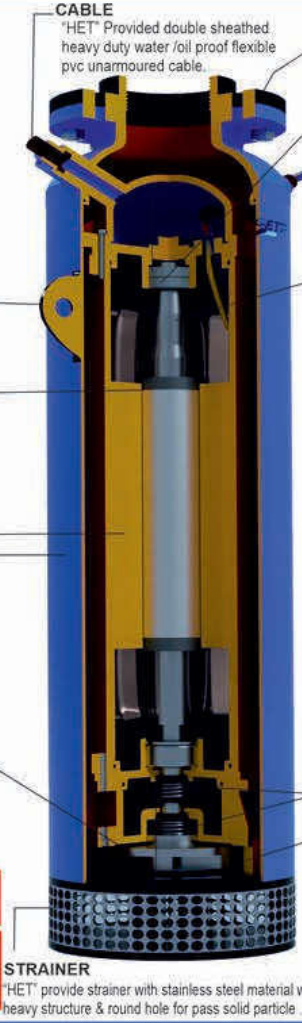
MOTOR
The "HET" pump motor is "F/H" Class wire with "F/H" Class insulation or PVC wound motor, Pvc wound motor submerged in oil bath & "F/H" Class motor dry & equipped with high temperature grease lubricates for bearing. Due to Higher Class winding wire or PVC insulation with Oil cooled motor life is long.

COOLING JACKET
The "HET" pump Cooling Jacket work forced convection cooling by the pumped fluid passing around the motor housing before discharge pumped liquid. Due to that reason pump to run for extended periods of time even if it is run dry in fresh air (when other pumps would overheat and burn out) or even if it is only semi-submerged without over heating. This is an integral part of the design and makes the option of additional motor cooling a redundant expense.

IMPELLER
"HET" Provide semi open/ close type Impeller with solid particle as per design or customer requirement with variable material of construction like High grade cast iron, Ni-Hard, stainless steel, Hi-chrome or as per application.

On Request Thermal & moisture Protection inbuilt with pump set only in "F/H" Class motor.

Due to continuous improvement may be actual design some change & Hose type delivery design very from pump top end.



CABLE
"HET" Provided double sheathed heavy duty water /oil proof flexible pvc unarmoured cable.

DELIVERY END
"HET" ALDEW High Head Series Provide Flange Ended with companion Flange for fit your delivery pipe.

BEARING
Double Ball Bearing at Non-Drive End to give more life when pumping raw water at high head more withstand capacity thrust load.

DISCHARGE OUTLET
"HET" PUMP 100 mm, 150 mm and 200 mm discharge outlet provided with various model & 150 mm & 200 mm outlet are supplied with removable discharge elbow, which are available with rubberline, Ceramic coating as per customer requirement for improved abrasion resistance.

MECHANICAL SEAL
"HET" Provided double mechanical seal with tandem assembly one seal in oil bath and other seal lubricate by pumped liquid. its benefit of High pressure (barrier fluid) capability & Handles solids and contaminated media compare to back to back seal assembly. We provide standard material of construction silicon carbide / silicon carbide and all metal part stainless steel with rubber part nitrile. We Also provided as per customer or application material of construction of both mechanical seal.

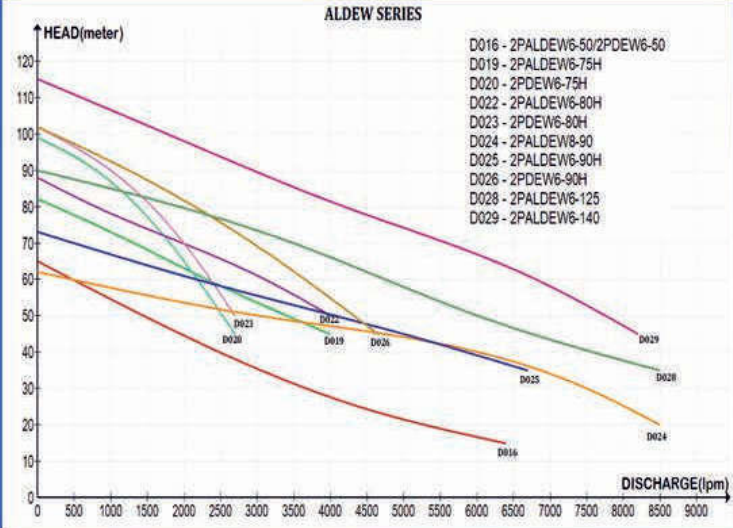
GUIDE SUPPORT
To balance the hydraulic load improve of pump efficiency and reducing vibration and extending of life of all parts like pump shaft, mech. seal we provide guide support which designed with oil chamber and also its help of fitting with base.

STRAINER
"HET" provide strainer with stainless steel material with heavy structure & round hole for pass solid particle.

"HET" "ALDEW" Series is Flange ended submersible dewatering pump comes in dry or oil - filled design. It gives liberty to use product of your own choice all types of material of construction are available as per application. This pump design Series is designed in single Stage Submersible Centrifugal Vertical (Mono Block Type) Construction, top discharge bottom suction This series pumps are available with semi open and close impeller up to 35 mm solid handling size capability.

SPECIAL FEATURE

- "HET" Motor enclosure prevent electrical motor heating burnout.
- "HET" Motor with reserve power for direct online starting when its lift raw water from sump with solid content.
- "HET" Pump equipped with double mechanical seal tandem assembly benefit capable high pressure (barrier fluid).
- "HET" Pump no require priming due to submersible and capable run semi submergence due to cooling jacket.
- "HET" Pump design top discharge bottom suction its easy to install at site no any special structure require same.
- "HET" Pump equipped with motor cooling jacket & "F/H" Class winding or pvc oil cooled due to that more efficient and perform batter in raw water application.
- "HET" Pump equipped with bottom base stainless steel strainer heavy structure and capable with solid content handling capacity with various size as per requirement.
- "HET" Pump provided additional feature on request like Thermistor Sensor for against heat protection of motor in dry run condition, Moisture Protection for water ingress in motor.
- "HET" Pump equipped with non-drive end double ball bearing and drive end also double ball bearing or angular contact bearing oversize for extend the motor life in raw water application.
- "HET" Pump wetted part are offer with various material of part and also special coating (as per application) with Semi open /close Impeller material which batter perform and batter life in raw/sea water/industrial water application.



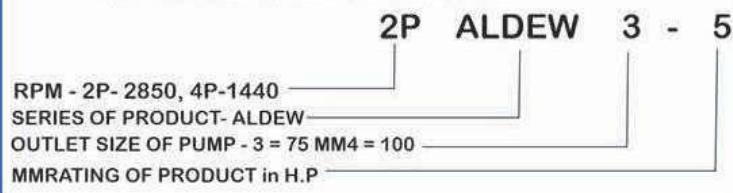
MATERIAL OF CONSTRUCTION

- Cast Part : C.I. FG 260 /S.G.Iron/ As per Customer Requirement.
- Impeller : Cast Iron / Hi-Chrome / S.S. 410 / Ni-Hard /S.S. 304/316 As per customer requirement.
- Motor Body : Cast Iron/ S.S./ S.S.OR M.S. Fabricated
- Shaft : S.S. 431/ S.S. 410 / S.S. 304/316 (Pump Side)
- Mechanical seal : Tungsten Carbide/ Tugsten Carbide Silicon Carbide/Silicon Carbide.
- Rubber Part : Viton / Nitrile /Silicon or As per req.
- Fastner : All faster S.S. 304 or As per req.
- Cable : Unarmoured type Double Sheathed Heavy duty water proof.
- Motor Winding : "F/H" Class or PVC oil filled oil cooled
- Rotor : Aluminum Die-cast (Copper rotor on request).

TECHNICAL SPECIFICATON

- Motor - 50.0 HP TO 140.0 HP
 - RPM - 2900 (2 POLE)
 - HEAD - UP TO 140 MTR.
 - DISCHARGE - UP TO 9000 LPM
 - SUPPLY - 415V /3PH/50HZ/AC SUPPLY
 - WINDING - "F/H" OR PVC OIL FILLED
- APPLICATION**
- Mining Area - Coal, Stone, Copper Etc.
 - Steel Plant - All raw water/ waste water /dust water handle in various area.
 - Power Plant -All raw water/waste water/dust water handle in various area
 - Industrial water /Sea water / Irrigation /canal
 - Specially design for high head application where require raw water lift from high head
 - River Sand lifting application
 - Dewatering purpose / raw water lift from river for water supply etc..

PRODUCT NOMENCLATURE



ACCESSORIES (OPTIONAL)

- Control Panel, Float switch
- Hose pipe- Rubber/Pvc/ Hydrant etc.
- Quick Release copuling
- Hose Collor/ Flange
- Toolkit
- Lifting Chain /Rope etc.

OPTIONAL DESIGN FEATURES

- Impeller Trim
- Optional Hydraulic Design
- Change in Material of construction
- Additional Cable length