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# SUBMERSIBLE SEWAGE SOLIDS-HANDLING OIL FILLED HAZARDOUS LOCATION

FM 3615 Elite Series



SECTION 8

## Solids-Handling - Elite Series



# KEEN PUMP SOLIDS-HANDLING PUMPS - A COOLER WAY TO MOVE SOLIDS!



## KEEN PUMP'S BEARING PROTECTION PROGRAM

Keen's Motor Grounding Ring protects the motor from harmful shaft voltages produced by VFD drives.

Safely conducts the harmful voltages to the grounding ring adding protection for the bearings and extended life.

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## DOUBLE ROW BEARINGS



Heavy Duty Bearings to handle the toughest performances.

- High Pressures
- High Flows

- Handles both Axial and Radial loads in both directions at the same time.
- Double Row Angular Ball Bearings have two rows of balls arranged back-to-back.

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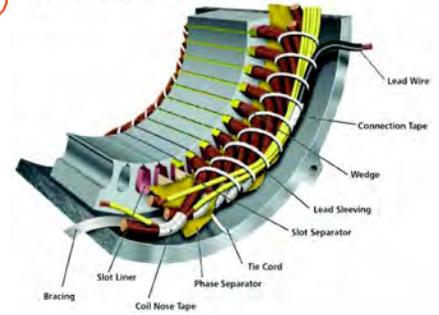
## CERAMIC COATING - IMPELLER AND VOLUTE CASTING

The ultimate indestructible ceramic coated impellers and volutes for Keen's Solids Handling pumps. This allows the pump to operate in any condition without any problems! Impressive sand, grit, abrasion and cavitation resistance!

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## HEAVY DUTY MOTOR

Applications in Electric Motors:



- Class "N" Motors for Keen's Solids Handling pumps.
- Highest temperature construction (200 degrees celcius) for motors
- Class "N" Construction is the best in the industry. Protects your motor from over heating and provides extended motor life. Motors are operating at higher temperatures due to:
  - Longer run times
  - Motor housing not submerged
  - Continuous

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## CASTINGS

ASTM - Class 35 high tensile strength castings.

## DURABLE POWDER COAT FINISH

Holds up to the toughest environmental conditions.

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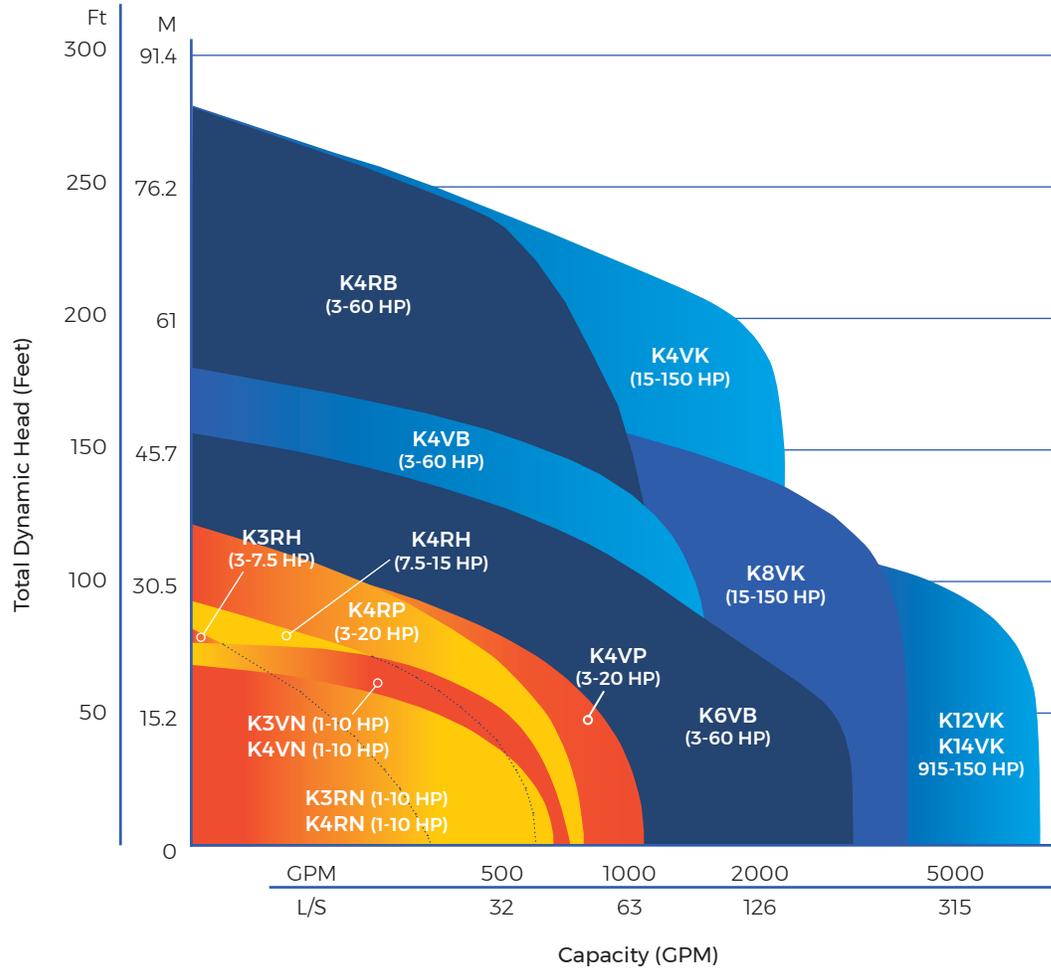
## DUAL SHAFT SEALS

Twice the protection quality silicon carbide faces, viton elastomers, stainless steel construction.

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## Family Curve Performance



### KEEN PUMP Designs Your Complete Pump Station

- ✓ Custom Engineered
- ✓ Unmatched Delivery
- ✓ Best Customer Service/  
Technical Support



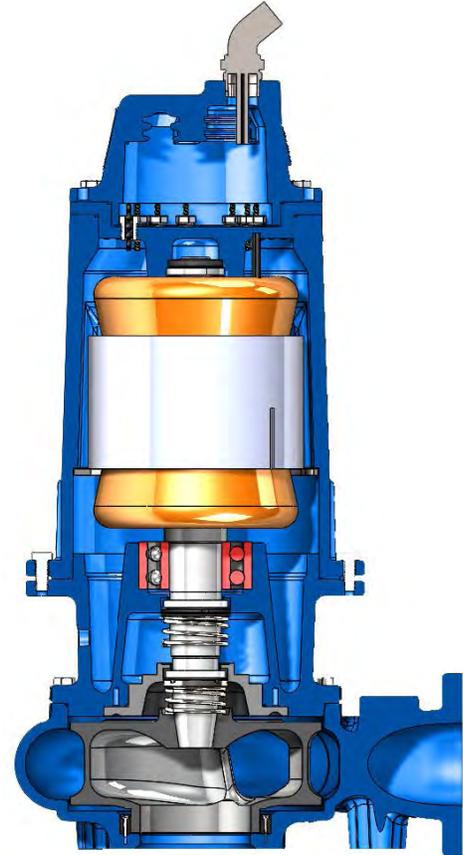
| Pump Model   | Horsepower | Impeller | Max. Flow (GPM) | Max. Head (TDH) |
|--------------|------------|----------|-----------------|-----------------|
| <b>K3RN</b>  | 1 - 10     | Vortex   | 625             | 71              |
| <b>K4RN</b>  | 1 - 10     | Vortex   | 600             | 67              |
| <b>K3RH</b>  | 3 - 7.5    | Vortex   | 275             | 90              |
| <b>K4RH</b>  | 3 - 7.5    | Vortex   | 540             | 94              |
| <b>K3VN</b>  | 1 - 10     | Enclosed | 700             | 76              |
| <b>K4VN</b>  | 1 - 10     | Enclosed | 700             | 75              |
| <b>K4RP</b>  | 3-20       | Vortex   | 750             | 125             |
| <b>K4VP</b>  | 3 - 20     | Enclosed | 1200            | 118             |
| <b>K4RB</b>  | 3-60       | Vortex   | 1400            | 275             |
| <b>K4VB</b>  | 3 - 60     | Enclosed | 1675            | 183             |
| <b>K6VB</b>  | 3 - 60     | Enclosed | 2250            | 155             |
| <b>K4VK</b>  | 50 - 150   | Enclosed | 2060            | 268             |
| <b>K8VK</b>  | 15 - 150   | Enclosed | 3800            | 175             |
| <b>K12VK</b> | 15 - 150   | Enclosed | 7700            | 125             |
| <b>K14VK</b> | 15 - 150   | Enclosed | 7700            | 125             |

FM Listed FM3615 for Class 1, Div. 1, Groups C & D Hazardous Locations

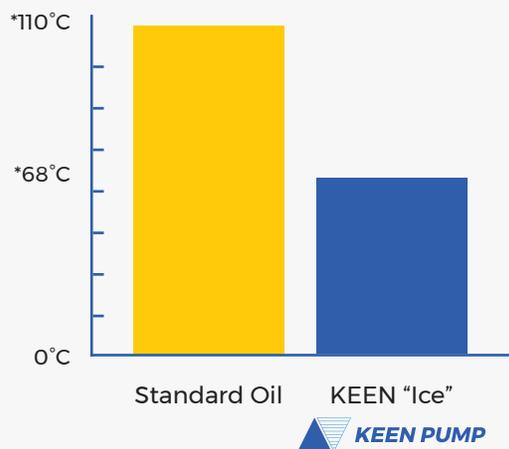
The **KEEN PUMP DIFFERENCE** is dedication to the highest quality of product and service in our industry along with the best customer care delivered with a sense of warmth, friendliness, individual pride, and company spirit.

## USED IN ALL KEEN SUBMERSIBLE SOLIDS-HANDLING PRODUCTS!

- Best Heat Transfer
- Transfers Heat 40% Faster vs. Standard Dielectric Oil
- Coolest Operating Pumps
- Nearly 40% Decrease in Running Temperature vs Other Mfgs.
- Ultra-Low Viscosity Allows Faster Turnover
- Viscosities 65% Lower vs Standard Dielectric Oil
- Locks out Airborne Moisture Contamination
- High Dielectric Strength Passes all FM Criteria!
- Promotes Longer Pump Life!
- Promotes Higher Effcienies!
- Promotes Reduced Energy Consumption!



Decrease Heat...Increase Motor Life 8x!  
...it's that simple!



### Nearly 40% Decrease in Running Temp vs Other Manufacturers!

\* Temps Shown for Reference Only

*Note: KEEN "I.C.E." is a PROPRIETARY, synthetic blend, low-viscosity oil, specifically designed for cooling KEEN submersible pumps.*

