PENTAIR

AURORA® LAYNE VERTI-LINE SERIES
SERIES 1100

TURBINE PUMP FOR BRACKISH WATER REVERSE OSMOSIS

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Development

Aurora Layne Verti-Line Series, a long time leader in vertical turbine pump manufacturing for the water and wastewater markets, now offers five sizes of reverse osmosis (RO) membrane feed pumps for brackish water applications. Capacities range from 700 GPM to 3700 GPM, and pressures to 300 PSI compatible with brackish water RO applications. Nominal bowl sizes range from a nominal 10" diameter to 18" diameter. Units are of the vertical turbine, pot pump design constructed in stainless steel materials. Efficiencies range to 87% at best efficiency point (BEP).

All RO pumps are designed, built and tested at the same facility to ensure a quality product. Units are manufactured under the certification of ISO 9001:2000, with a written Quality Assurance program.

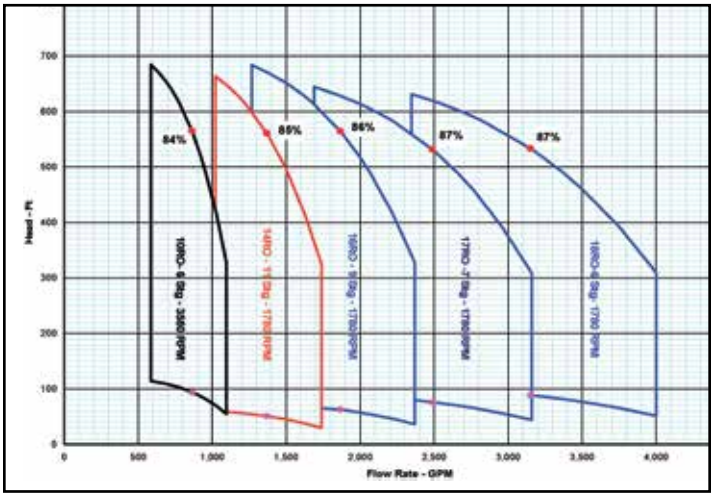
Bowl design includes renewable wear rings as standard construction. Optional impeller wear rings are also available. Impellers, secured to the shaft with a gib key, are of the radial flow design with smooth passageways to promote maximum efficiency. Impeller clearances are conveniently adjustable from the top of the motor to minimize product recirculation, and to maximize hydraulic efficiency.

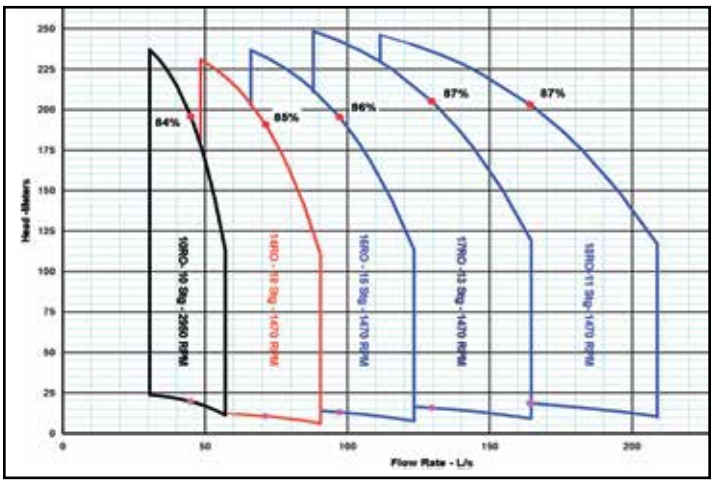
Bowl assemblies are certified factory hydrostatic and performance tested in accordance with Hydraulic Institute Standards. Results of these factory tests are certified by a Registered Professional Engineer.

Pictured are examples of RO plants in Bonita Springs Florida, Brownsville and Seymour Texas.

Design and Performance

1. Accurately machined flanged bowl design promotes well contoured and smooth passageways. Bowl shaft supported by Rulon 123 bearings to provide excellent corrosion resistance.
2. Stainless steel bowl shaft, lineshaft and couplings are sized to transmit driver torque and operate the pump without distortion or vibration.
3. One-piece stainless steel impeller construction of the radial flow design with smooth passageways to promote maximum efficiencies. Stainless steel gib key positively secures impellers to the shaft.
4. Shaft sealing box incorporates a mechanical seal, bushing and gland of 300 PSI design. Discharge head in stainless steel fabricated construction has a 250# discharge flange.
5. Renewable bowl wear rings attached to the bowl via an interference fit and set screw are standard construction. Impeller wear rings are a standard option.
6. Suction pot fabricated of stainless steel conforms to ANII-HI 9.8 intake design standards. Factory certified hydrostatic and performance tested.





THE COMMITMENT OF AURORA® LAYNE VERTI-LINE SERIES

Our distinctive products, market leadership, excellent customer service, and longevity in the industry are all a result of the quality and dedication of our personnel. Our pumps are machined, built, and tested by highly skilled shop personnel. Working as a team, our people continually explore new ways to better serve our customers. Product quality, dependability, and innovation are all part of the Aurora Layne Verti-Line Series commitment to excellence.

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