

The Eclipse® Series represents a dramatic advance in pump technology. Combining proven design principles with state of the art engineered composites; the Eclipse Series is the most reliable, simple and intuitive pump on the market today. Eclipse Series pumps are built for use in the harshest industrial environments. Designed to be structurally rugged with corrosion-resistant materials, the Eclipse is an ideal fit for many medium to highly corrosive liquids used in the chemical and petrochemical processing, pulp and paper and water treatment.

Key Features

- All wetted components are completely non-metallic, not lined
- Pump housings and gears are made of engineered composites, magnetically driven, and require no mechanical seals
- Zero leakage, no emissions of hazardous or regulated chemicals
- Fewer parts and material options means simplified ordering and inventory
- Front pull-out design, makes for easy service and maintenance
- Pre-defined KOPkits® allow for easy ordering and kitting of all necessary parts to bring the pump back to factory performance
- Engineered composite fluoropolymer provide superior chemical resistance
- Pump is bidirectional-can be run in either direction
- Modular design allows for the pump to be mounted in 45° increments (to a full 360°)

Control Options



MPC Vector

The MPC Vector is a microprocessor based motor speed control device, for use with all pump technologies and has been designed for simplicity, yet has many advanced features that allow a wide variety of environments and applications. This product is not just a variable speed drive. It is a state of the art multifunction controller.



Operating Benefits

- Reduced down time means less maintenance costs and more production time
- Fully encapsulated magnets allow for maximum corrosion resistance
- Close-coupled mounting eliminates the cost and potential issues associated with pump and motor alignment
- Sealless design means longer life and less maintenance
- Fewer number of parts makes it fast and easy to service
- Piping and electrical remain intact during servicing, requiring less labor



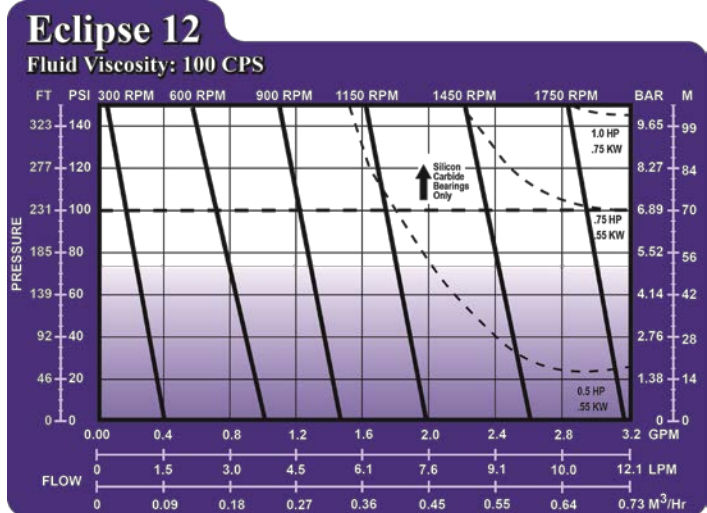
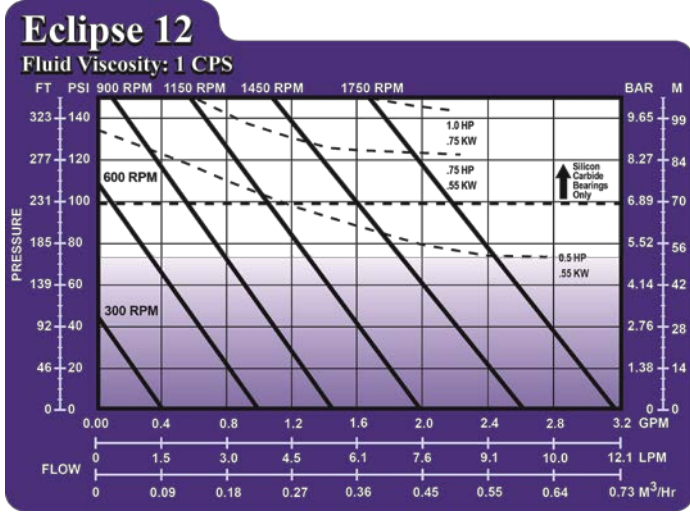
Aftermarket & Accessory Offerings

- KOPkit®
- Pressure Relief Valves
- Back Pressure Valves
- Calibration Columns
- Y-Strainers
- Gauges





Specifications and Model Selection



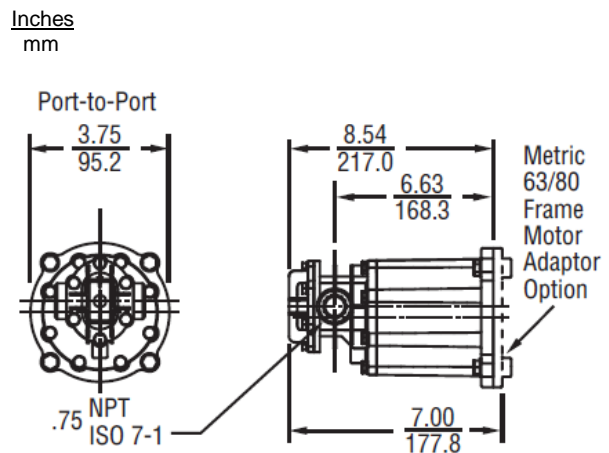
Engineering Data

- Housings: Carbon-Reinforced ETFE or PVDF
- Magnet: Neodymium Encapsulated Virgin ETFE
- Gears and Liners: Carbon Reinforced PTFE
- Shafts: Alumina Ceramic
- Bearings: Carbon Graphite or Graphite-Impregnated Silicon-Carbide
- O-rings: FKM or EPDM
- Port Size and Type: 3/4 inch FNPT or ISO 7-1
- Gear Type: External Spur Gear
- Bearing Type: Sleeve bearing Integral wear plate
- Direction of Rotation: Bi-directional
- Theoretical Displacement: 0.226 US gal/100 rev. (8.6 cc/rev.)
- Maximum Differential Pressure:
 - Carbon Bearings: 100 psi (6.89 bar)
 - Silicon Carbide Bearings: 150 psig (10 bar)
- Maximum Allowable Working Pressure: 200 psig (14 bar)
- Maximum Speed: 1750 rpm
- Maximum Viscosity: 10,000 cps
- Maximum Fluid Temperature: 150°F (66°C), 200° F (93°C) with deration
- Minimum Fluid Temperature: -40°F (-40°C)
- Fluid pH range: 0-14
- NPSHr: 2ft (0.6m) at 1750 RPM
- Motor Frame Sizes- NEMA: 56C, 143/145TC
- IEC: 63 and 80 B3/B14 Face

Custom Engineered Designs

- Chemical Feed Systems
- O-Rings
- Gear Reducers
- ANSI/DIN Flange Kit
- IEC 71 B3/B14 Face Motor Mounting

Dimensions



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