

Electric Stroke Control

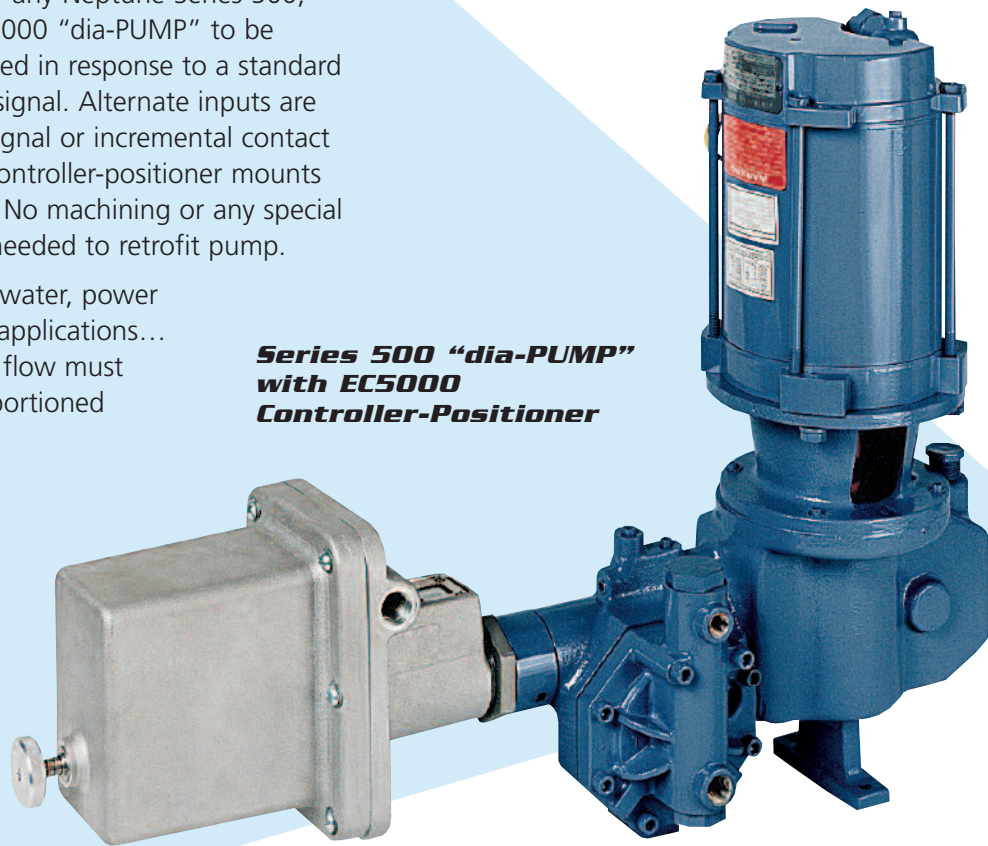
Purpose

The Neptune Electric Stroke Control allows the capacity of any Neptune Series 500, Series 600 or Series 6000 "dia-PUMP" to be automatically controlled in response to a standard 4-20 mA DC process signal. Alternate inputs are 0-5 VDC/0-10 VDC signal or incremental contact closures. One-piece controller-positioner mounts directly to the pump. No machining or any special drillings or tappings needed to retrofit pump.

Ideal for water/wastewater, power and process industry applications... anywhere that pump flow must be automatically proportioned or varied.

Neptune
A DOVER COMPANY

**Series 500 "dia-PUMP"
with EC5000
Controller-Positioner**



Features/Benefits

- Microprocessor based digital design.
- Permanently lubricated, maintenance free.
- Unrestricted duty cycle.
- Input signal adjustments:
 - Zero and span settings unlimited
 - Adjustable dead band
 - Adjustable upper and lower limits
- Signal interruption "memory." If process signal is lost, unit can remain in its last position or move to a preset position.
- Multiple units can be wired in series or parallel.
- Alarm function monitors: 1) movement to max/min preset limits; 2) movement to adjustable upper/lower limits. Gives early warning to malfunctions or process upsets, allows for quick corrective actions.
- Manual operation if power or signal is lost.
- Stroke position indicator on controller. Permits fast, easy visual check of pump stroke length.
- Separate signal and power entrance connections to terminal blocks.

Specifications

- NEMA 4 (IP65) or Explosion-Proof (Class I, Division 1, Groups C & D; dust & ignition-proof rated Class II, Division 1, Groups E, F & G)
- CSA, CE and ATEX available
- Power supply: single phase 120/240 VAC (switch selectable), 50/60 Hertz, 18 VA load
- Operating temperature: 0°F to 150°F*
- Input signal: 4-20 mA DC or 0-5 VDC or 0-10 VDC switch selectable. Also accepts incremental contact closures (dry contacts).
- Output: isolated 4-20 mA DC; loop-powered, up to 800 OHM load at 24V
- Precise pump stroke positioning accurate to $\pm 0.75\%$
- Solid state limit switch outputs with LED status indication (for alarms or process control)
- Limit switch rating—open collector 40 mA max. @ 40 VDC

*Limited by temperature at which chemical thickens or freezes.

Electric Stroke Control for Series 500/600/6000 Pumps

Controller-Positioner fits all Series 500 pumps:

EC5004* (NEMA 4/IP65 Enclosure)

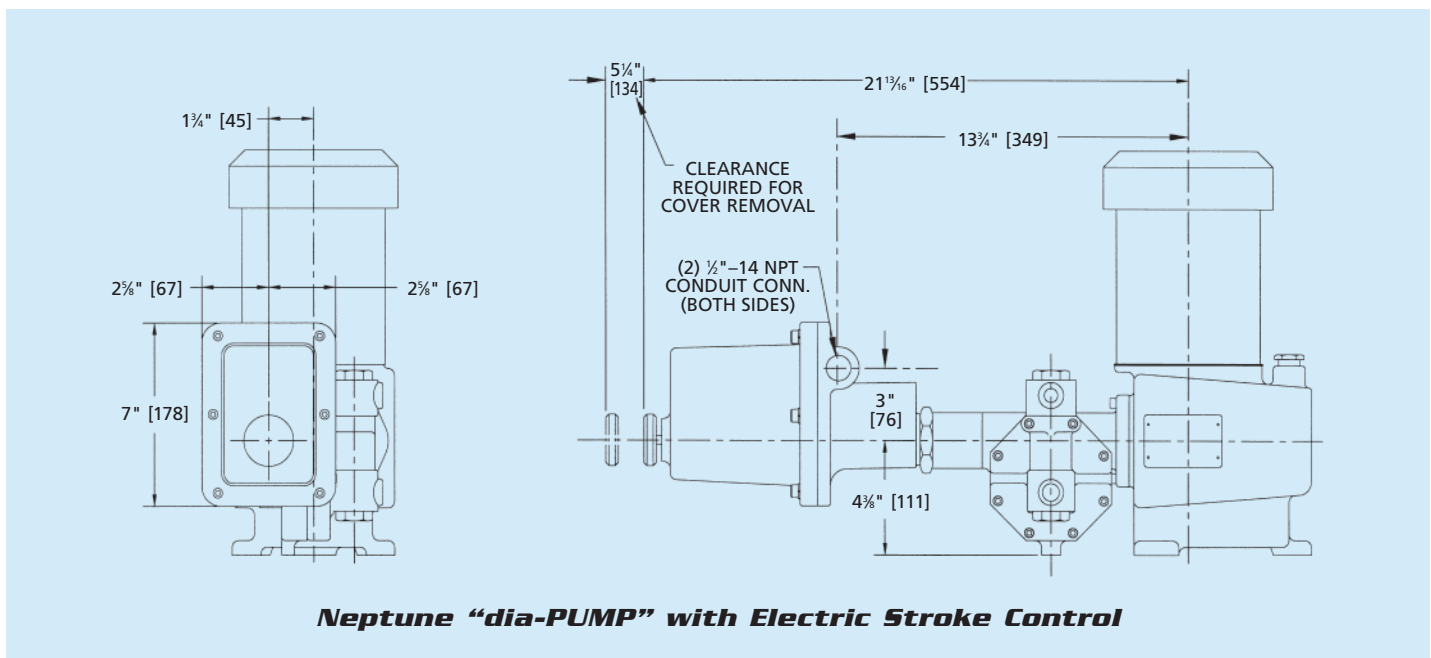
EC5000* (Explosion-Proof)

*NOTE: Can be mounted on only one head of a duplex pump.

Controller-Positioner fits all Series 600/6000 pumps:

EC6004 (NEMA 4/IP65 enclosure)

EC6000 (Explosion-Proof)



Neptune "dia-PUMP" with Electric Stroke Control



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