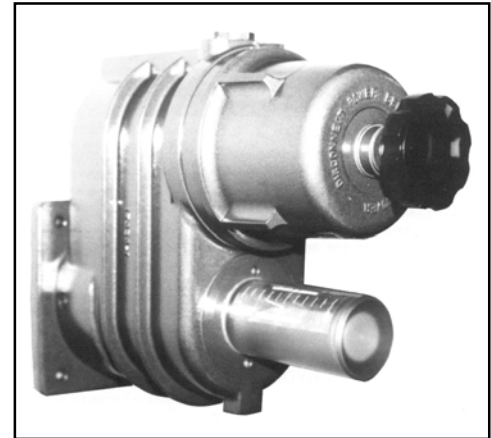


- **Computer compatible.**
- **Solid state electronics.**
- **Compact design.**
- **±0.5% position accuracy.**
- **Rapid response time.**
- **Wiring leads are fully encapsulated.**

NIKKISO Hydroflo's Electronic Capacity Control (ECCA) permits the automatic adjustment of pump capacity. Replacing the standard manual micrometer knob and mounting directly on the pump, the ECCA uses miniaturized, state-of-the-art electronic technology built around an AC synchronous motor. This permits precise actuator travel, without hunting or overshoot. All ECCA units are supplied with color-coded wiring leads which simplify field installation, and are fully encapsulated to keep moisture out. The encapsulated wiring leads also eliminate the need to open actuator housing to accomplish field wiring.



ECCA, Style A



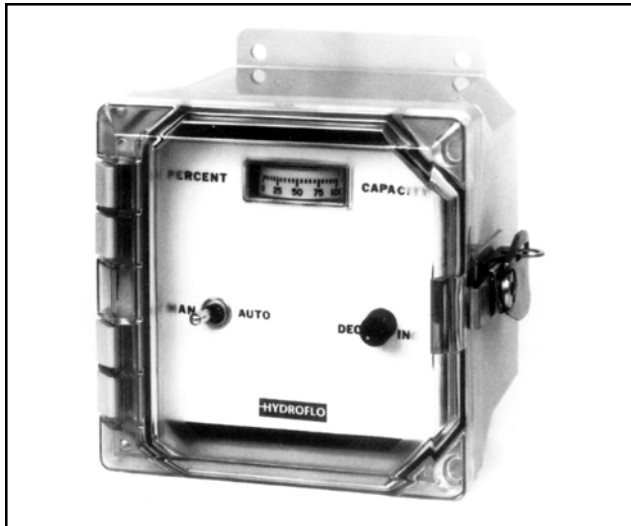
ECCA, Style B

ECCA Specifications

Actuator housing	NEMA type 4X standard NEMA type 7 optional (Class I, Group C&D, Division 1)
Input power supply	115V/1P/50-60H standard 230V/1P/50-60H optional
Control signal	4-20 mA or 1-5 VDC standard 10-50 mA optional
Position output signal	4-20 mA retransmission standard
Accuracy	±0.5% or better
Manual override	Normally disengaged, spring opposed handwheel

ECCA Part Number		Model Number	Enclosure Style	Pump Series
(NEMA 4X Enclosure)	(NEMA 7 Enclosure)*			
17100-1104	17100-1100	ECCA-1	A	Series 1000
17100-2104	17100-2100	ECCA-2	A	Series 2000
17100-3104	17100-3100	ECCA-3	B	Series 3000
17100-4104	17100-4100	ECCA-4	B	Series 4000
17100-5104	17100-5100	ECCA-H	A	Series 977/997
17100-5104	17100-5100	ECCA-H	A	Series 200

Custom Features	Accessories
NEMA 4X or 7	NIKKISO HydroChek™ Calibration Columns
50/60 Hertz	NIKKISO HydroDamp® Pulsation Dampeners
115 VAC or 230 VAC	NIKKISO HydroDrive™ VSD's & Motor Controls
4-20 mA, 1-5 VDC; or 10-50 mA control	NIKKISO HydroGarD™ Back PressureValves
	NIKKISO HydroGarD™ Safety Relief Valves
4-20 MA retransmission	NIKKISO HydroInjex™ Injection Assemblies
Custom designed for NIKKISO Hydroflo pumps	NIKKISO HydroMix™ Agitators
	NIKKISO HydroTank® Liquid Handling Package



Remote Station

Remote Station Specifications

Enclosure	NEMA 4X standard NEMA 7 optional
Input power	115V/1P/50-60H standard 230V/1P/50-60H optional
Controls	Auto/manual selector switch & manual speed adjust knob
Analog meter	Indicates percent capacity setting of pump
Position output signal	4-20 mA retransmission standard
Optional features	·Signal loss alarm ·Hi/Low limit alarm

Dimensions:

