IVEK’s Fluid Circulation Module is a self-contained liquid metering system in a compact enclosure. This Fluid Circulation Module has been designed to continuously meter low flow rate repeatable volumes while providing excellent chemical compatibility. The Module operates on a stand-alone basis or as an auxiliary unit to an IVEK dispensing system that is performing an application that requires a fluid to be circulated through a gland port machined into the dispensing pump. Applications that frequently require a gland pump include: clean-in-place (CIP) flushing, cyanoacrylate dispensing, and electrolyte dispensing.

The pump displacement mechanism is simple and once set, requires no further operator adjustments. Positive displacement IVEK pumps with internal ceramic components offer durability, repeatable displacement, and low maintenance. The piston/cylinder set within each pump module is made from high-density Alumina ceramic. Each pump module must pass a stringent quality assurance procedure that includes measuring the mated components to 0.0254 microns. The specialized machining of these parts is performed in-house, and each matched set of piston and cylinder are laser engraved with a serial number. The combination of the ceramic material’s physical characteristics of low friction, hardness, and stability means that no compliant seals are used, thus eliminating a part that requires frequent replacement in other pump designs.

FEATURES AND BENEFITS

- forward / reverse
- choice of two pump sizes; 50µl and 100µl maximum displacement per revolution
- flow ranges for 50µl capacity pump to 3000µl/minute (60rpm) and 3600µl/minute (72rpm)
- flow ranges for 100µl capacity pump to 6000µl/min (60rpm) and 7200µl/minute (72rpm)
- on/off switch and front panel power indicator
- variable flow rate by changing pump displacement volume
- motor speed. 60 RPM for 50Hz, systems and 72 RPM for 60Hz systems
- pump case available in 316 stainless steel and tefzel
- available in 115VAC or 230VAC models
- North American or International line cord
- CE certified
- one-year warranty

TYPICAL APPLICATIONS

- gland fluid seal and circulation
- low volume continuous flow applications
- laboratory metering
- time-based chemical additions
- maintaining fluid suspensions