



Technology Integrators, Inc.

Automatic Ink Fountain Leveler



THE ORIGINAL IL-2000

One of the first ink levelers on the market, the IL-2000 was designed and manufactured by Air Stamping, Inc. around 20 years ago. This automatic ink leveler maintains ink level within 1/8". Justification results from the following two areas:

1. More efficient use of manpower; no more hand dipping of fountains by pressman.
2. Improve print quality by reducing color variation. The hydraulic force between the ink fountain roller and blade is affected by the ink level within the fountain. More ink in the fountain; equals more hydraulic force; equals more ink forced between roller and blade. The results of ink level fluctuating is color variation.

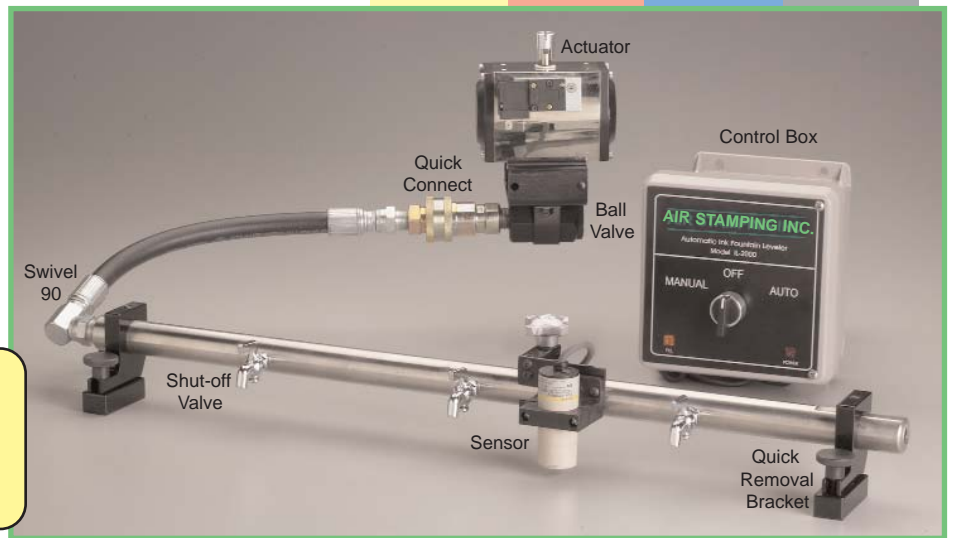
Modular 3 Piece Design

Three piece design allows the components to be mounted where they should be.

1. Ink valve mounts to the ink line.
2. Control enclosure mounts safely away from ink & fountain solution.
3. Manifold mounts over the fountain.

OTHER DESIGN FEATURES:

- Compact design, 4" x 4" profile
- Left and right configurations
- 1/4" wall seamless steel tube manifold



Control Enclosure

The IL-2000 controls are bullet proof in design and arrive as a plug & play device for quick and easy installation.

CONTROL BOXES INCLUDE:

- 3 position switch (Manual/Off/Auto)
- NEMA rated fiberglass or steel enclosure
- Time delay relay (ink ratchet applications)
- Power and fill LED lights
- Sensor cable with connector
- Heavy-duty cord restraints
- AC 120volt power
- Solenoid cable
- Power cable
- Internal fuse

Control Box



Ink Valve

The actuator features a fast, reliable, double acting, spring assist return to close, rack and pinion design. Manufactured from anodized aluminum, the actuators operating pressure range is 40 to 140 psi (torque 224lb/in @100psi).

The ball valve features a high-pressure, quarter-turn, full port ball valve, carbon steel body, polished stainless steel ball with .6" hole, blowout proof stem, reinforced delron seals, pressure rating 3000psi, and 1/2" NPT thread.

ADDITIONAL VALVE FEATURES:

- Subplate mounted air solenoid valve
- Removable solenoid connector
- High Pressure 1/2" ink supply line
- Quick disconnects for ink line



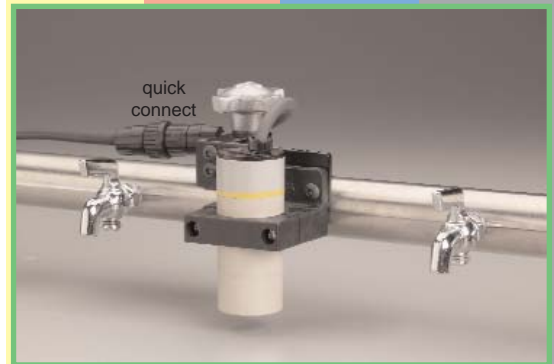
Ink Valve

Sensor

The industrial hardened capacitive sensor will offer years and years of service. The sensor sees through up to a 1/4" of ink on the sensor face. This tried and true sensor is not affected by heat, humidity, vibration, or ink.

Low level capacitive sensor maintains ink level within .125".

The sensor cordset is pre-wired into the control box. The cordset includes quick disconnect to make installation and removal of the sensor quick and easy.



Sensor

Universal Mounting

Movable sensor mounting brackets and standard chrome shut-off valve spigots (nozzles) allow the use of ink fountain dividers for less than full web jobs.

Custom mounting brackets fit any press and enable the leveler to be removed completely from the fountain in seconds.



Mounting Bracket



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