

UV PROCESS SUPPLY, INC.

CON-TROL-CURE™ TRANSFER PUMP 3V INSTRUCTION MANUAL

PART # J004-071

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Transfer Pump IIIV is the latest generation of UV Process Supply, Inc's CON-TROL-CURE® line of transfer pumps designed to enhance safety and efficiency in transporting inks and coatings. This dual diaphragm pump is compact, lightweight and easy to use and install. The CON-TROL-CURE® Transfer Pump IIIV is priced low to afford the flexographic, screen printing, roller coating and gravure coating industries with a unique pump able to handle most industrial application requirements.

Transfer Pump IIIV is designed to transfer inks and coatings from 1, 5, or 55 gallon sources directly to the printing or application equipment. This systematic method eliminates the need for heavy lifting of drums and cans of inks and coatings, avoiding accidental spills or direct contact to substances that may pose health hazards to your workers. With the use of the Transfer Pump IIIV safety is observed in the workplace while lessening physical stress caused by manual lifting of heavy ink and coating packaging. Providing such labor efficiency in your working environment. Will translate to increased productivity. Clean compressed air gas, or nitrogen drives the Transfer Pump III at a flow rate of 1.8 gallons per minute. Because It is air-operated the transfer of inks and coatings is continuous and smooth without the worry of electrical breakdowns or stalling. Transfer Pump III offers minimal maintenance long-term, trouble-free and economical operation.

Transfer Pump IIIV's compact design offers extra production cost reduction. A small pump requires a minimal amount of air pressure to operate which makes it more cost-effective than larger pump units. Its operating air requirement is from a minimum of 15 psi to a maximum of 60 psi. Down time is greatly reduced when using the Transfer Pump IIIV. It has a built-in automatic demand feature that allows the pump to operate only when liquid flow is required. Pump stops instantly when discharge valve is closed. This pump is designed with only a few movable parts for simple operation. The Transfer Pump IIIV is self-priming. Ideal for UV/EB ink and coatings, Transfer Pump III is compatible for use with a wide variety of chemical products. UV Process Supply offers other transfer pump models and a variety of pumps and accessories.

FEATURES:

- Low cost: Highly affordable for small or large scale shops
- Compact and lightweight: This 2-lb pump has an overall dimension of 7" x 6" x 4"
- Handles 1, 5 or 55 gallon sources
- No electrical problems: Operates on factory air or compressed gas
- Lower operating costs
- Rugged and durable construction
- Easy to clean stainless steel metal components provide a virtually maintenance-free unit.
- Minimal number of moving parts: Less maintenance
- Field Tested to millions of cycles: 100% factory tested
- Flow rate controlled by air pressure: Provides a smooth and continuous transfer flow
- Self priming: Dependable automatic start-up pump action
- Wide Variety of Chemical Compatibility: Ideally for use with AVOW inks and coatings
- Wetted parts: High corrosion and wear resistant
- Rugged and durable construction: Long-term use and trouble-free performance

BENEFITS:

- Requires minimal amount of compressed air to operate
- Helps develop efficiency in handling inks and coatings
- Increases productivity

- Prevents direct contact with hazardous substances in inks and coatings promoting worker's safety.
- Eliminates lifting of heavy drums and material packaging
- Reduces down time prior to actual production

TECHNICAL SPECIFICATIONS:

- DESIGN: 2 Chamber Double Diaphragm
- POWER SOURCE: Clean Compressed Air, Gas, or Nitrogen
- MAXIMUM OPERATING PRESSURE: 60 psi
- MINIMUM OPERATING PRESSURE: 15 psi
- FLOW RATE: 1.8 gallons per minute
- TEMPERATURE LIMITS: 34° to 120° F
- WEIGHT: 2 lb.
- OVERALL DIMENSION (size): 7" x 6" x 4"
- STANDARD FITTINGS:
 - 3-1/8" Inlet and Outlet Stainless Steel Fitting
 - 1-1/4" Air Inlet Nylon Elbow Fitting
- DISPLACEMENT: 1.25 oz/stroke
- SUCTION LIFT (WET): 25 in. hg. (min.)
- REMOTE PUMPING DISTANCES:
 - (varies on viscosity of fluid)
 - 1-1/4" lines 50-100 feet
 - 3-1/8" lines 250 feet
 - 1-1/2" lines 500 feet

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*Economy of OPERATION: Uses only Cubic inch air consumption compared to cubic feet consumption with other pumps.
Economy of CLEAN UP: Because of the small size the pump requires less solvent to clean up.*

The following instructions are intended to assist you in successfully installing the CON-TROL-CURE® Transfer Pump IIIV. These recommendations are for typical installations and are designed to provide the most satisfactory performance. To assure the integrity of your total system it is important for you to follow these instructions. By performing the installation properly the first time, you will avoid costly and time consuming troubleshooting; and you will look forward to trouble free service.

MOUNTING INSTRUCTIONS

Before mounting the CON-TROL-CURE® Transfer Pump IIIV, it is important that you determine the number of pumps you will need in each of your installations. It is also important to pick a suitable location for the mounting of your pumps. The mounting area should be dry, well ventilated and provide unobstructed access to the pumps. Be sure to allow enough room so that you can easily attach liquid and gas pressure lines to the pump. Securely attach pump (or pump stand) to wall or side of rack. Use appropriate fasteners such as toggle bolts, wall anchors, or heavy-duty screws. Be sure to mount pump with outlet port pointing up and inlet ports pointing down.

PLUMBING STRATEGIES

Use only 3/8" inside diameter, thick walled tubing for all inlet lines. Use only reinforced tubing with the proper pressure ratings for all outlet lines.

1. Be careful not to crimp tubing or over-stress fittings during tightening.
2. Always use fittings that are matched to the inside diameter of the tubing.
3. Never use Teflon tape or pipe dope to seal fittings. All Transfer Pump IIIV plumbing parts are designed to operate correctly without sealing compounds.
4. Rout suction tubing via the shortest path. Never exceed 10' in length for suction tubing.
5. Avoid sharp bends or twists that may cause crimped tubing. Use 90 degree or other proper angle fittings if necessary.
6. Connect inlet tubing to straight barb. Secure tubing on barbed fittings with stainless steel hose clamps. Connect fitting to inlet port of pump. This should be the lower port.
7. Connect outlet tubing to straight barb fitting. Secure tubing on barbed fittings with stainless steel hose clamps.
8. Connect pressurized air tubing to gas inlet port on pump. This is the smaller inlet port. Secure tubing on barbed fitting with stainless steel hose clamp.

AIR PRESSURE REGULATORS

Transfer Pump III gas operated pumps require accurate pressure settings in order to function properly. It is suggested that you calibrate pressures for your system with a reference gage that has been accurately measured. The maximum pressure that should be applied to your CON-TROL-CURE™ Transfer Pump IIIV gas pump is 60 PSI. Be sure to calibrate pressures with a reference gage with tested pressure settings. The pump must have the proper operating pressure to perform its job satisfactorily. If the pressure from the regulator is in excess of 80 PSI, it may cause the pump to stall from excess pressure and to vent gas into the atmosphere.

SYSTEM START UP

1. Make sure all connectors are fully engaged.
2. Make sure the pressurized air is turned on and flowing through the pump. Adjust pressure regulators to 5-15 PSIG.
3. When air is purged and the pump is primed, make the final air pressure adjustment.
4. Close the dispensing head. The pump will turn off.
5. Check for leaks and tighten any loose connections.
 - a. Liquid leaks will be obvious. Replace clamps and tubing as necessary.
 - b. Gas leaks typically cause a hissing sound. Secure all gas connections.

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