

Dema Injectors

For spraying hydrophilic emulsifier. The emulsifier is drawn into the water stream by the Dema valve, emitting an emulsifier/water spray. The Dema Injector allows the penetrant user to process parts with the hydrophilic method without adding large dip tanks, and to use the same equipment necessary for a water wash operation.

Model 244C Three-position gun allows user to choose chemical, clear water rinse, and off setting at the spray gun. When gun trigger is pulled completely, vacuum is drawn in injector and chemical is dispensed through spray gun. Releasing the trigger halfway to rest against a latch will eliminate vacuum draw of chemical and only spray clear water for rinsing.

Injectors have no moving parts, nothing to wear out or lubricate, resulting in extremely low maintenance. They are compact, needing no foundation or mounting bracket, and can be installed in any position. Injectors require no wiring, are self-priming and need no bleeding or filling. Injection rate is simple to set and can be quickly adjusted during operation and there is nothing to drain for seasonal shut down.

Injectors do not include covers, ball valves, or any other device to make them a complete system. These units include the injector assembly, appropriate spray gun for each model and the chemical inlet tubing assembly. These are very basic units that may be wall or drum mounted to dispense one chemical.

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DEMA SPRAY CLEAN MODELS: 244C, 244CE, 244CP & 244CT INSTALLATION INSTRUCTIONS

I. PARTS:

- A. Injector.
- B. Spray gun.
- C. Mounting screws and washers.
- D. Vinyl supply tubing, foot strainer & ceramic weight.
- E. Metering tip (specified size, model 244CT only).

II. INSTALLATION: (See figure 1)

Note: All installations must conform with local plumbing codes and use approved backflow preventers.

A. INJECTOR:

Inlet fits 1/2" NPT water line (except 244CE). Water temperature should not exceed 150°F and pressure should not exceed 125 PSI. The injector may be mounted in any position, but the arrow must point in the direction of flow. If mounting is insecure, use enclosed mounting screws for attaching to a wall, inserting the washers between the wall and injector to provide easy attachment of outlet hose.

B. SPRAY GUN:

Connect spray gun to the injector's outlet using a high pressure garden hose (Dema part no. 44-3, 25 ft. x 1/2" hose). Total hose length must not exceed values shown in Table 1. (Dema hose bracket part no. 44-4S is available as an accessory for hose lengths up to 50 ft.)

TABLE 1

Hose, I.D.	3/8"	1/2"	5/8"	3/4"
Max. Length:	15 ft.	50 ft.	100 ft.	250 ft.

C. LIQUID DETERGENT OR SANITIZER CONTAINER:

Detergent may be drawn directly from any size container, which usually is set on the floor. Use enclosed plastic tubing for connecting to injector, first cutting to desired length and dropping the end with the foot strainer and ceramic weight into the container. Push other end over supply tubing fitting (See figure 3).

III. OPERATION: (See figure 2)

With water turned on and spray gun long lever squeezed to the full-open position, the detergent or sanitizer is drawn into the water stream. When the lever is released to rest on the latch, no detergent will be drawn into the water stream, thus providing a clear rinse. To shut-off, pull short latch release. If spray is too hard, throttle valve in line ahead of injector. When spray clean is not in use shut off the inlet valve and open the gun to relieve the high pressure in the hose.

IV. ADJUSTMENT: (See figure 3)

WARNING: Use care when handling hazardous chemicals.

A. Models 244C, 244CE & 244CP:

Turn the small recessed screw to adjust the injection rate. Four turns counterclockwise provides the maximum. Table 2 shows the maximum injection rates in ounces of product per gallon of water obtainable for various fluid viscosities.

SPRAY CLEAN
MODELS 244C, 244CE, 244CP & 244CT

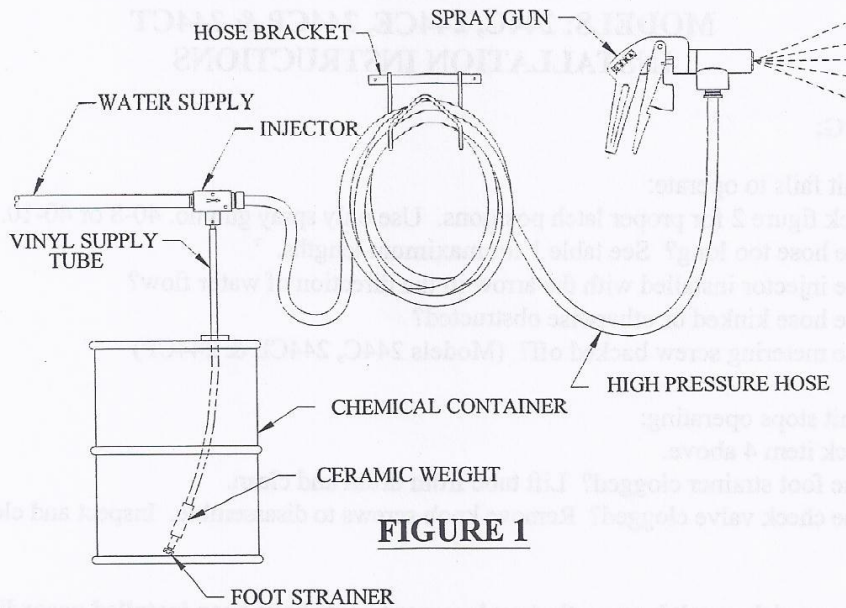


FIGURE 1

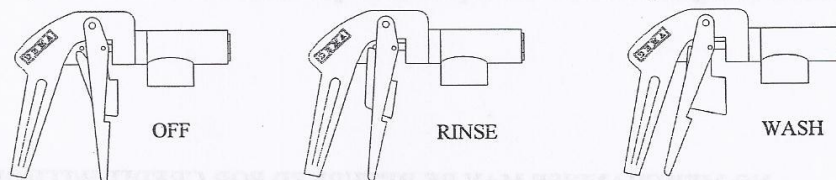


FIGURE 2

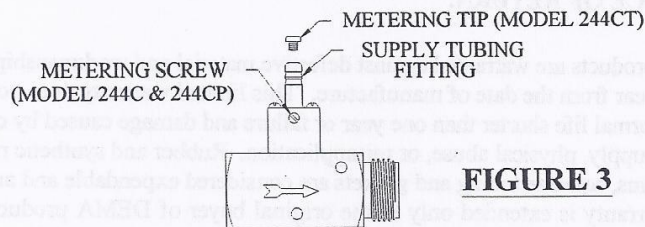


FIGURE 3

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