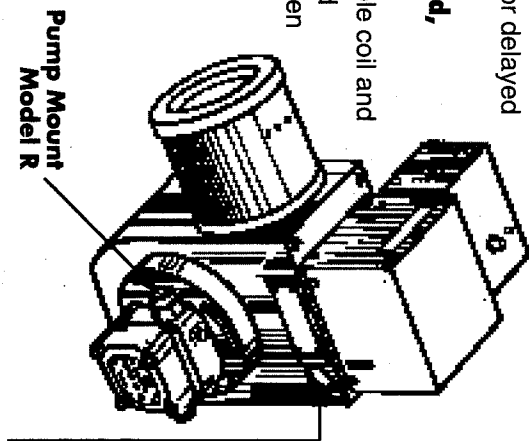


CHECK THESE IMPORTANT FEATURES

- ✓ **Designed To Perform Reliably** over an extended cycle life.
- ✓ **Field Proven Concept**, with years of domestic and European acceptance.
- ✓ **Easy To Install.** The Model R valve is added into the circuit with simple tools and without additional tubing. The coaxial bolt assembles the valve directly to the pump outlet. The Model C valve mounts onto the burner housing with convenient 90° porting. This permits a very concise tubing arrangement.
- ✓ **Available In A Choice** of pump mount (Model R) or burner mount (Model C). Both models use the same actuating components including the coil.
- ✓ **Interchangeable.** For non-delay or delayed opening.
- ✓ **UL Recognized and CSA Certified**, for extra assurance.
- ✓ **Economical.** A two-piece detachable coil and cordset allows greater flexibility and increased savings to customers when retro-fitting.



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...working harder to serve you even better.

SHUT-OFF VALVE INSTALLATION:

A. GENERAL

The shut-off valve should be installed in accordance with local and national safety codes. (See Figure 3 - wiring diagrams)

B. INSTALLATION (See Figure 1)

1. Remove old thread sealant from pump nozzle port plug and ensure that the plug face is free from nicks and burrs.
2. Rotate valve module as shown in Figure 1 or according to the burner manufacturer's recommendations if applicable.
3. Assemble one gasket to nozzle screw and insert nozzle screw through valve module. Assemble one gasket over threaded end of nozzle screw.

CAUTION

DO NOT APPLY THREAD SEALANT TO NOZZLE SCREW OR PUMP NOZZLE PORT THREADS. SEALING IS ACCOMPLISHED BY THE GASKETS.

4. Attach valve module to the pump by threading the nozzle screw into the pump nozzle port. Tighten nozzle screw 8-12 ft. lbs.
5. Apply thread sealant to nozzle line fitting and install fitting into valve module. **DO NOT USE TEFLON OR SIMILAR TYPE TAPE AS A THREAD SEALANT.**

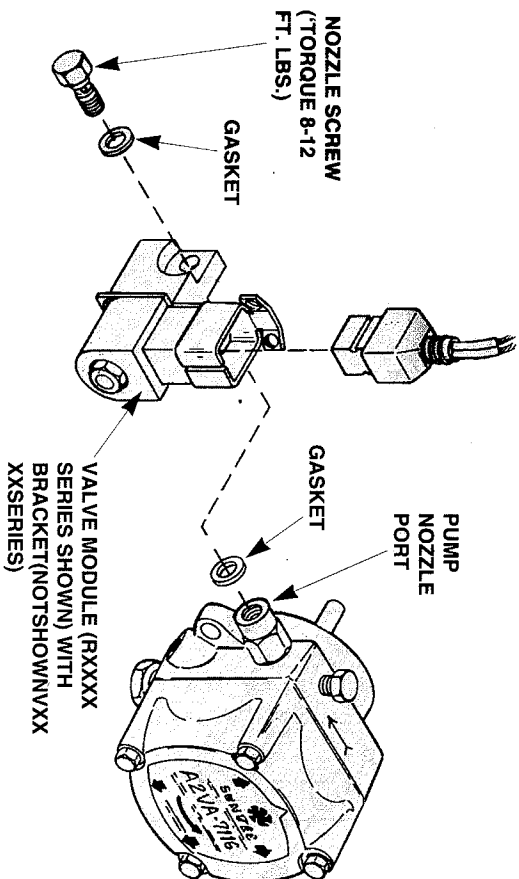


Figure 1 • Valve Installation



C. INSTALLATION • C VALVE (See Figure 2)

1. Remove knockout or plug from burner housing.
2. Insert straight single screw BX fitting in knockout hole and assemble locking nut on chassis plug threads.
3. Apply thread sealant to two (2) nozzle line fittings and install in valve body.

DO NOT USE TEFLON TAPE AS A SEALANT.

4. Remove screw from BX fitting. Insert coil wires through BX fitting and push coil flush with fitting. Replace screw through hole in base plate to BX fitting. Tighten screw to hold valve in place.
5. Attach nozzle line from pump to inlet side of valve (indicated by arrows on valve).
6. Attach nozzle from outlet side of valve to nozzle fitting on burner.
7. Connect coil leads from valve to motor supply.

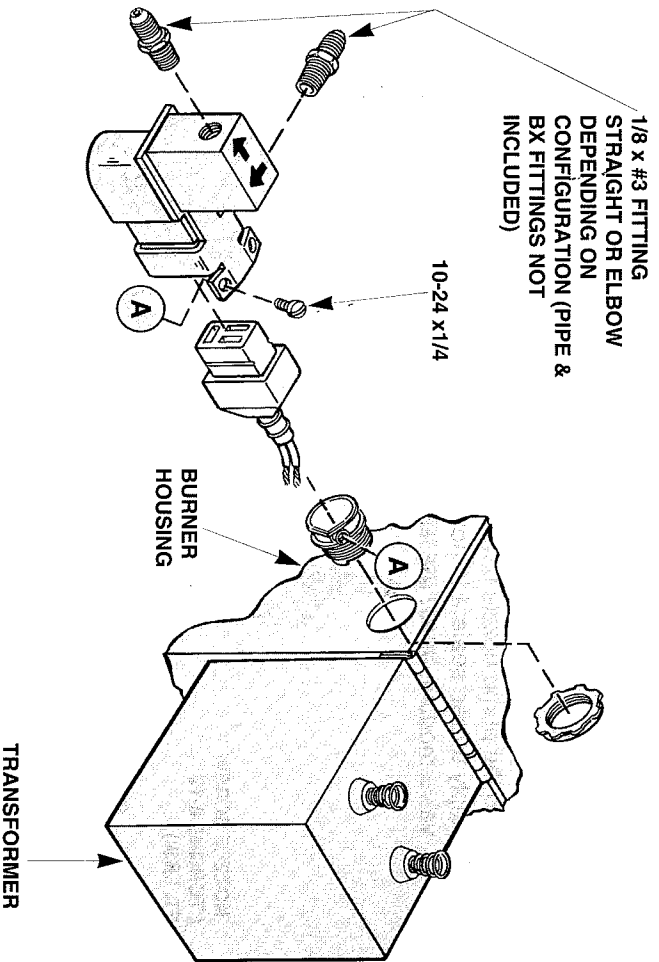


Figure 2. • Valve Installation

WARNING

DISCONNECT POWER TO THE APPLIANCE BEFORE WIRING TO PREVENT SHOCK.

A. GENERAL

Wiring should be performed in accordance with local and national codes.

B. WIRING (See Figure 3)

1. Enclose the solenoid leads in an approved conduit in accordance with local and national codes.
2. Attach the solenoid leads according to Figure 3 and the burner or appliance manufacturer's instructions.

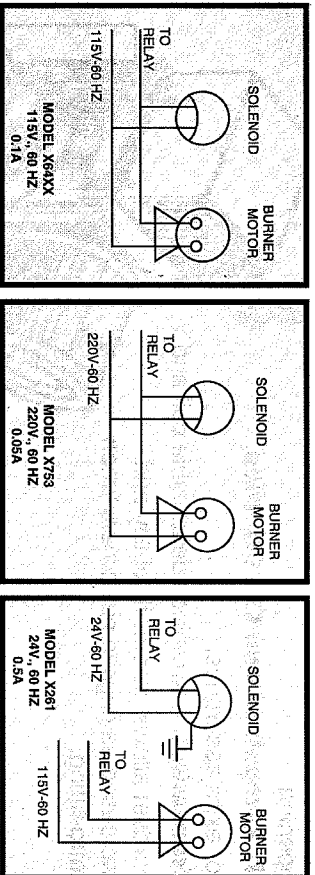


Figure 3. Solenoid Wiring

SHUT-OFF VALVE APPLICATION GUIDELINES

A. PUMP MODELS: The Shut-Off Valve can be installed on any Surttec model series A and B pumps rated up to 300 psi. (Except for delay models which are rated to 150 psi.)

B. FUELS: For use with No. 2 and lighter fuel at a maximum fluid temperature of 75°F (24°C).

C. AMBIENT TEMPERATURE: Ambient temperatures not to exceed 115°F (46°C). Delay Valve Models R643L and C643L have specific operating requirements to ensure that the valve open within a maximum of 15 seconds. See the following chart for operating details.

MAX. PSI	MIN. AMBIENT AIR TEMP.	MIN. VOLTAGE
100	50° F	102 VAC
150	50° F	115 VAC

D. FLOW: For use on systems with a maximum nozzle line flow to 16 GPH.