MODEL PRV-38
OIL SAFETY VALVE
INSTALLATION INFORMATION Form 2155 - Ed.2 - 07/01/19

IMPORTANT INFORMATION:

This product is not compatible with fuel blends containing more than 5% biodiesel.

SPECIFICATIONS:

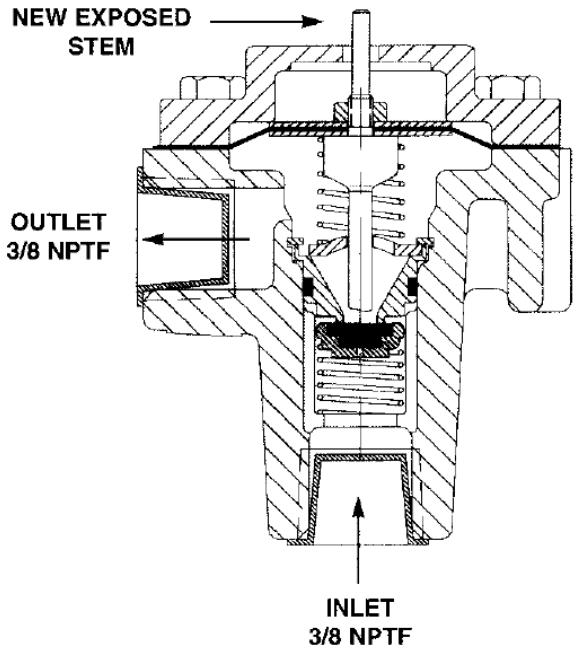
INLET PRESSURE.....40 PSI MAX*
TEMPERATURE RANGE.....0 to 160F
FUEL.....NO.2 OR LIGHTER
MAXIMUM FLOW.....55 GPH MAX

PRV Series valves fulfill the NFPA standards (par. 3.7 & 3.8, respectively in NFPA 31). Consult local codes for compliance to other applicable regulations.

PRV OPERATION:

Oil under pressure or vacuum is supplied to the PRV valve inlet port. Vacuum is required at the PRV valve outlet port to open it and allow oil flow. This vacuum is provided by the fuel pump upon burner startup. A leak in the system preventing vacuum from being exerted at the valve outlet port will prevent oil from flowing.

INSTALLATION:



LOCATION

Install the PRV valve as close to the tank as possible. Do not locate in an area where moisture may be present, as the moisture may collect and freeze in the diaphragm cavity.

CAUTION: To prevent Siphoning in the event of line failure, The PRV valve should not be mounted more than 3' above the burner or 3' above the lowest point in the line connecting the valve to the burner.

ATTENTION: *Pour éviter le siphonage en cas de défaillance de la ligne, la vanne PRV ne doit pas être montée à plus de 3' au-dessus du brûleur ou 3' au-dessus du point le plus bas de la ligne connectant la vanne au bruleur.*

MOUNTING

The PRV valve can be mounted in any orientation.

FILTER

Suntec highly recommends that the PRV valve be protected by a system filter.

FAST PRIME

For fast priming press the exposed stem down and hold to open the valve allowing fuel to flow through it. Release the stem when priming is complete.

GENERAL

The PRV valve has 3/8 NPT ports. The inlet port is connected to the supply tank, and the outlet port is connected to the burner piping. When installing, DO NOT USE TEFLON TAPE, as it may void all warranties. Any non-hardening pipe sealant compatible with fuel oil is acceptable.

Do not use the valve as a structural member to support long or heavy runs of piping.

The installer is responsible for complying with applicable codes. Typical installations shown are for reference only.

CENTRAL SYSTEMS

When used in central systems or systems supplied with a boost pump, each burner should have its own PRV valve to insure against high system pressures.

TROUBLESHOOTING

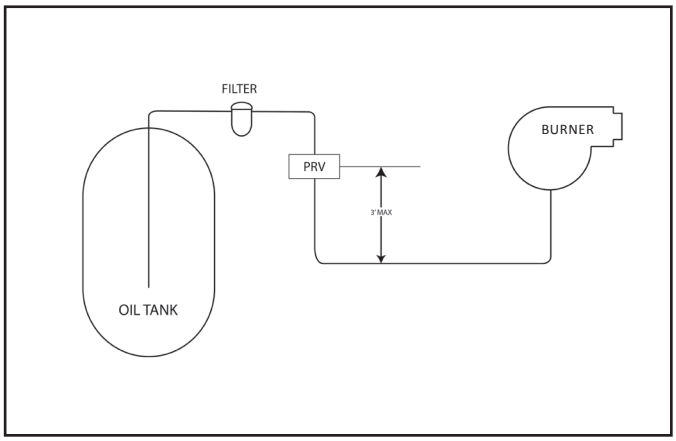
If there is an air leak between the PRV valve and the burner large enough to prevent establishing operational vacuum, the valve will not open during fuel unit operation.

If unable to get oil to the burner or prime is lost:

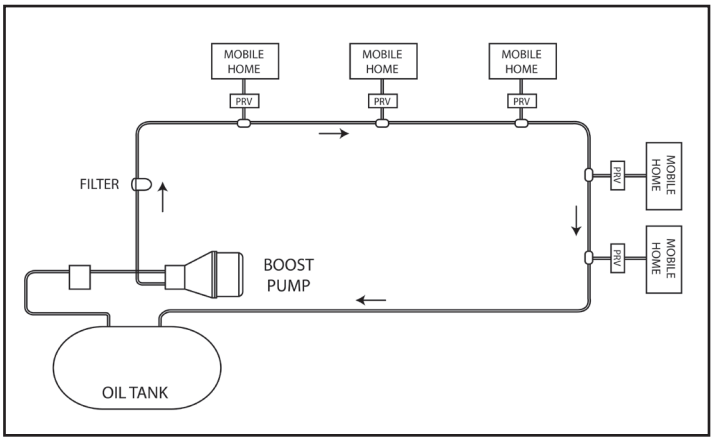
1. Check the PRV valve by depressing the diaphragm stem manually and observe for oil flow.
2. Install a gauge in the inlet piping to determine if vacuum can be established and holds on shut down. If not, there is a vacuum leak.
3. Pressure check the lines.

CAUTION: Remove the PRV valve from the system when blowing out lines. Using compressed air can result in damage to the valve.

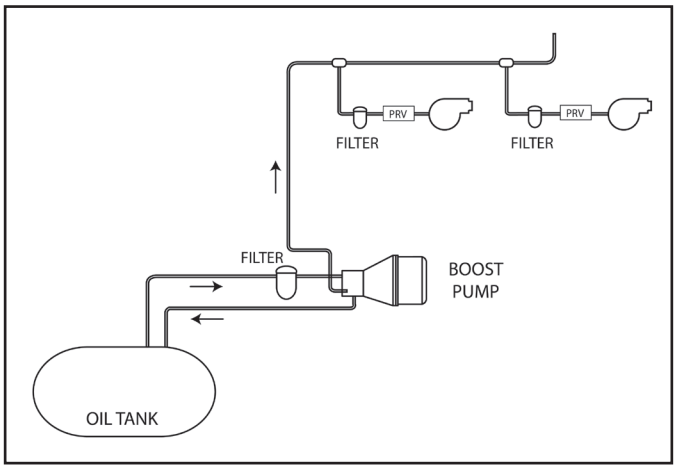
ATTENTION: *Retirer la vanne PRV du système lors du nettoyage des conduites. L'utilisation de l'air comprimé peut endommager la vanne.*



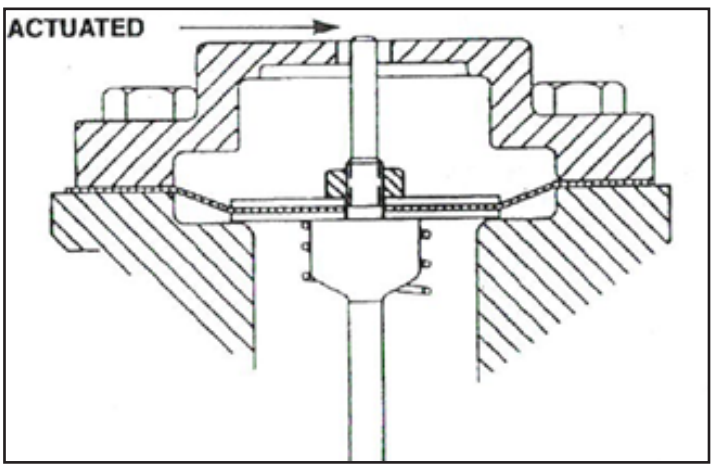
Gravity feed installation with PRV-38



Central system with PRV-38 valves



Boost pump installation with PRV-38 valves



Priming PRV-38 valve in operation

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