



MODELS RV-B100, RV-C100 FUEL OIL REGULATOR VALVE

INSTALLATION INFORMATION Form 4000-B20 - Ed.3 - 11/12/19

IMPORTANT INFORMATION:

This product is compatible with Fuel oil #2 and lighter, B6-B20 (blends from 6% up to 20% biodiesel, per ASTM D396). This product must be installed, adjusted and started only by a qualified and licensed technician and done so in accordance with all appropriate local and national codes and ordinances, such as National Fire Protection Standard for Liquid Fuel Equipment, NFPA 31, CSA B139-M91, etc.

⚠️WARNING: Different aspects of the oil fired heating system can be affected by the use of a fuel/biodiesel blend (storage, piping system between the tank and the burner, burner components).

These units are designed to handle B6 to B20 biodiesel blends (fuel oil according to ASTM D396 with 6% to 20% biodiesel according to ASTM D6751 standard). Ensure that all components of the heating system, supply line and burner components are B20 compatible. Before first start-up, ensure that the oil storage tank has been thoroughly cleaned prior to the biodiesel blend delivery.

Biodiesel blends are likely to have reduced long-term storage stability performance. Aging and oxidation can lead to high acid numbers, high viscosity, and the formation of gums and sediments that may cause filter clogging and pump seizing.

⚠️AVERTISSEMENT: Différents aspects du système de chauffage peuvent être affectés par l'utilisation de mélanges composés de biodiesel (stockage, système d'alimentation entre le réservoir et le brûleur, composants du brûleur).

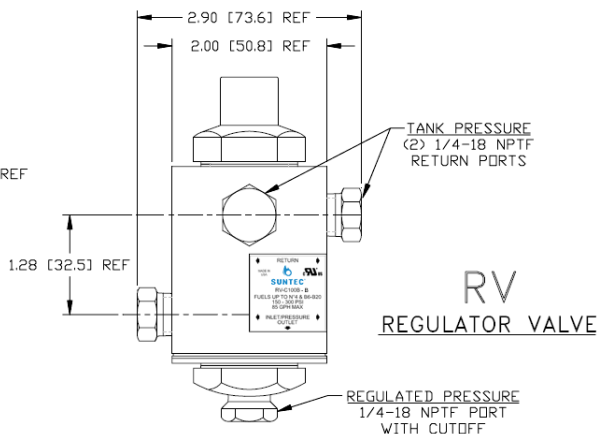
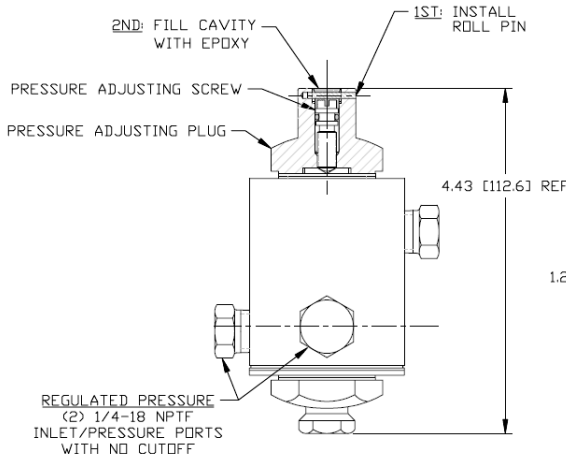
Ces éléments doivent être conçus de manière à être compatibles avec des mélanges B6 à B20 (mazout de chauffage selon l'ASTM D396 avec 6% à 20% de biodiesel selon la norme ASTM D6751). Il est nécessaire de s'assurer que tous les composants du système de chauffage, de la ligne d'alimentation aux composants du brûleur, soient compatibles au B20. Avant le premier démarrage, vérifier que le réservoir ait été complètement nettoyé avant la livraison du mélange mazout / biodiesel.

Les biodiesels auront probablement une durée de stockage réduite sur le long terme. Vieillessement et oxydation peuvent conduire à des indices d'acide élevés, une importante viscosité, et à la formation de gommages et de sédiments pouvant causer le colmatage du filtre et le grippage de la pompe.

SPECIFICATIONS:

REGULATED PRESSURE RANGE

RV-B100.....	100 - 200 PSI
RV-C100.....	150 - 300 PSI



TEMPERATURE RANGE.....	-40 to 200 degF
FUELS.....	NO. 4 & LIGHTER
MAXIMUM FLOW.....	85 GPH MAX

NOTE: Due to normal RV valve piston flow losses, size the fuel pump approx. 5 gph larger than otherwise needed.

These RV valves are cUR Recognized.

CODES: Consult local codes for compliance to regulations that may govern the use of this valve.

RV VALVE OPERATION:

Oil under pressure is supplied to the RV regulator valve. The valve regulates the fuel pressure to a desired setting, ports the pressurized fuel to the desired location and ports the excess flow back to the tank.

RV VALVE INSTALLATION:

OIL SUPPLY PORT: Supply oil up to 85 GPH to one of the two valve INLET/PRESSURE PORTS. Set the valve regulating pressure to the desired setting within the decal pressure range.

OIL DISCHARGE PORT: If a cut-off feature is not desired, or if the supply pressure can be lower than the RV valve setting, take the discharge flow out the other INLET/PRESSURE PORT. If a cut-off feature is needed, and if the supply pressure is always greater than the RV valve setting, take the discharge flow out the OUTLET PORT.

OIL RETURN PORT: Send return flow back to tank out one of the two RETURN PORTS.

MOUNTING: Any mounting orientation is acceptable.

FILTRATION: Suntec highly recommends that the RV valve be protected by an upstream filtration system.

GENERAL: DO NOT USE TEFLON TAPE on the 1/4 NPTF ports, as it may void all warranties. Any non-hardening pipe sealant compatible with fuel oil is acceptable.

LOCK PRESSURE SCREW: After the pressure is set, lock the adjusting screw as required by the NYC DEP by inserting the Roll Pin (one + spare enclosed) into the Adj. Plug crosshole, and filling the cavity with J-B Weld Co. Kwik Set Epoxy Resin/Hardener or equivalent. See left view below.

