PREPARATION & INSTALLATION OF THE DE-FUZER VALVE (TITE-SEAL ASSEMBLY)

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User should read and thoroughly understand these instruction before installing rupture disc. These instructions do not purport to address all of the safety factors associated with the rupture disc's use in service. It is the responsibility of the user to establish appropriate safety, health, and training measures for their personnel installing, servicing, or working in an area where rupture disc assemblies are in use. Service and/or maintenance on or around the rupture disc device must not be performed while the device is subjected to operating pressures and/or temperatures.

It is the user's sole responsibility for design and placement of rupture discs within their facility and upon the equipment upon which the rupture disc of user's selection is to be located. It is user's sole responsibility for the design of adequate venting and installation of adequate vent piping or directional flow after rupture occurs with the rupture disc as intended. When size is specified, RIMEX Supply Ltd. (RIMEX) assumes that adequate provisions have been made by purchaser for proper venting of a system to relieve the specific pressure. Locate rupture disc where people or property will no be exposed to the system discharge in case of rupture. Vent toxic or flammable fumes or liquids to a safe location to prevent personal injury or property damage.

It is the user's sole responsibility to specify the burst pressure rating of a rupture disc at a coincident temperature at which the rupture disc is to be used. A rupture disc is a temperature sensitive device. The burst pressure of the rupture disc is directly affected by its exposure to the coincident temperature. Generally, as the temperature at the rupture disc increases, the burst pressure decreases; inversely, as the temperature at the rupture disc decreases, the burst pressure may increase. Failure to properly utilize a rupture disc at the specified coincident temperature could cause premature failure or over pressurization of a system.

The instantaneous release of pressure from the rupture disc can create violent noises due to the discharge at sonic velocity. It is the user's sole responsibility to protect against hearing damage to any bystanders.

Rupture discs and tags are made of metal foils of varying thickness. The metal edges may be sharp. Personnel installing or examining the rupture discs should protect against cuts or injury when handling the rupture disc.

Particles may be discharged when the rupture disc ruptures. These particles may be part of the rupture disc itself, or other environmental matter in the system. It is the user's sole responsibility to assure that these particles are directed to a safe area to prevent personal injury or property damage.

There is no guarantee of rupture disc life. Such life span is affected by corrosion, creep and fatigue, and physical damage. These conditions will derate the rupture disc to a lower set pressure. The customer and/or user should be prepared to handle premature failure of the rupture disc. The media or other environmental conditions should not allow any buildup or solidification of media to occur on a rupture disc. This may increase the pressure setting of the rupture disc.

Customer and/or its installer shall be solely responsible for the proper installation of seller's holders and rupture discs into a system. Customer and/or its installer shall be solely responsible for improper installation and physical damage resulting therefrom, including but not limited to, damage resulting from leakage, improper torquing or seating of a rupture disc or failure to follow installation instructions where provided.

Rupture discs are precision safety devices and must be installed properly. Rupture discs must be installed by trained, knowledgeable installers and only within environments suitable and appropriate for a rupture disc. Care must be used in a facility's design to protect both the rupture disc from inadvertent damage which could cause its premature release and to protect individuals exposed to hazards created by such sudden release.

Proper installation of a rupture disc is critical to performance and safety. Failure to provide proper seating of a rupture disc may affect rupture disc performance, burst pressure accuracy and may result in its premature failure.

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I. Safety Precautions Before Installation

1. The RIMEX DeFuzer Valve, otherwise known as a Tite Seal Assembly, must be installed by a trained and skilled person(s), who are familiar with rupture discs and have experience working with tire and wheel/rim assemblies. The Tite Seal Assembly should be replaced if it ruptures, is worn, is damaged, corroded or if the rupture disc shows signs of "creep" or fatigue. Do not try to repair or tamper with this device. This is a safety device designed to help prevent serious injury or death. Improper installation may lead to serious injury or death.
2. The Tite-Seal Assembly, is a precision instrument and must be handled with extreme care. These assemblies should be installed only by qualified personnel familiar with rupture discs and proper piping practices.
3. Do not install the assembly if there is any damage evident to the rupture disc. A damaged rupture disc is any rupture disc with visible nicks or dents in the dome.

II. Preparation for Installation

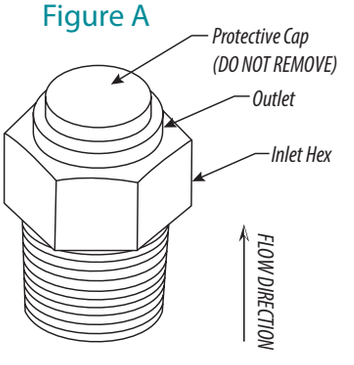
New Installation and Replacement Installation

1. The assembly is supplied fully assembled as a sealed unit. When a pressure relief occurs, replace the entire unit.
2. Each assembly is leak-tested bubble-tight before leaving the factory.
3. If oxygen or LOX cleaning has been requested, do not remove assembly from sealed bag until ready for installation.
4. Care should be taken during assembly and installation to ensure that nothing sharp protrudes down into the inlet or outlet cavities. A rupture disc that has been scratched, dented or damaged in any way may result in premature failure.

III. Installation of the Assembly into the Wheel or Rim (refer Figure A)

1. Each assembly is permanently stamped with the rated burst pressure. Assure that the unit being installed is compatible with current system operating conditions.
2. Before placing the assembly in the rim or wheel, clean mating threads of all grit, dirt or foreign material to ensure proper seal.
3. When installing the assembly, **DO NOT REMOVE PROTECTIVE CAP. USE THE INLET HEX ONLY FOR TIGHTENING ASSEMBLY INTO RIM OR WHEEL BASE.** This is a Tite Seal Assembly. **DO NOT ATTEMPT TO DISMANTLE. DO NOT ATTEMPT TO REPLACE RUPTURE DISC**, as this can cause damage to the rupture disc or cause premature failure.

Figure A



IV. Positioning and Torque Guidelines for DeFuzer Valve

1. The RIMEX DeFuzer Valve is to be installed in a ¾" NPT hole. RIMEX recommends that this hole is drilled and tapped at a minimum of 4.0" in line from the existing valve hole for demountable rims. This should be on the back section side of the valve hole. For wheels it is recommended that the De-Fuzer hole be positioned at 180 degrees opposite the existing valve.
2. The De-Fuzer Valve should be torqued to between 75 and 90 Ft-lbs. (101.7 and 122 N·m).

V. Preventative Maintenance

1. Operating conditions combined with the effects of severe pressure/vacuum cycles, corrosion, temperature variations, or other adverse conditions must be evaluated by the user through Annual Risk Assessment and actual service experience to determine optimal Service Life.
2. RIMEX recommends visual inspection at every tire removal from the wheel or rim and complete replacement if any internal/external media solidification or build up, nicks, dents, perforation to rupture disc, mechanical damage, missing dust caps is found.
3. To avoid extended downtime, maintain three assemblies in stock at all times. The number of spares required ultimately will be determined by service conditions.

VI. Customer Service

If you wish to discuss your application, installation or maintenance, please contact the RIMEX Customer Service Department at 604.888.0025 or toll free in Canada, WA or OR 800.663.9883 or email inquiries@rimex.com

For locations worldwide, please visit www.rimex.com