

Rupture Disk Holder

H-3240.22 RUPTURE DISK HOLDER INSTALLATION

IMPORTANT: READ THE ENTIRE INSTRUCTION SHEET BEFORE PROCEEDING
INTRODUCTORY SUMMARY OF THE PROCEDURE:

1. REMOVE SAFETY POP VALVE FROM AUTOCLAVE.
2. REMOVE SOCKET HEAD SCREWS HOLDING RUPTURE Disk HOLDER TOGETHER AND SEPARATE HALVES. THE HALF WITH THE RECESS IS THE BOTTOM PIECE.
3. INSTALL THE RUPTURE Disk IN THE RECESS WITH THE BUBBLE UP.
4. PUT THE TOP PIECE ON. INSTALL AND EVENLY TIGHTEN SCREWS.
NOTE: THERE IS A PUNCH MARK ON EACH HOLDER HALF WHICH SHOULD BE ALIGNED DURING THIS ASSEMBLY STEP.
5. PUT TEFLON TAPE ON THE FITTING WELDED INTO THE BOTTOM FLANGE AND SCREW INTO AUTOCLAVE WHERE POP VALVE WAS REMOVED.
6. USE FITTINGS IN THE TOP OF THE RUPTURE Disk HOLDER TO DIRECT PRESSURE IN THE EVENT OF A BLOW OUT.

Warning:

USER SHOULD READ AND THOROUGHLY UNDERSTAND THESE INSTRUCTIONS BEFORE INSTALLING RUPTURE Disk. THESE INSTRUCTIONS DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY FACTORS ASSOCIATED WITH THE RUPTURE DISK'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 DISK ASSEMBLIES ARE IN USE.

IT IS THE USER'S RESPONSIBILITY TO SPECIFY THE BURST PRESSURE RATING OF A RUPTURE DISK AT A COINCIDENT TEMPERATURE AT WHICH THE RUPTURE DISK IS TO BE USED. A RUPTURE DISK IS A TEMPERATURE SENSITIVE DEVICE. THE BURST PRESSURE OF THE RUPTURE DISK IS DIRECTLY AFFECTED BY ITS EXPOSURE TO THE COINCIDENT TEMPERATURE. GENERALLY, AS THE TEMPERATURE AT THE RUPTURE-DISK INCREASES, THE BURST PRESSURE DECREASES; INVERSELY, AS THE TEMPERATURE AT THE RUPTURE DISK DECREASES, THE BURST PRESSURE MAY INCREASE. FAILURE TO PROPERLY UTILIZE A RUPTURE DISK AT THE SPECIFIED COINCIDENT TEMPERATURE COULD CAUSE PREMATURE FAILURE OR OVERPRESSURIZATION OF A SYSTEM.

THE INSTANTANEOUS RELEASE OF PRESSURE FROM THE RUPTURE Disk CAN CREATE VIOLENT NOISES DUE TO THE DiskCHARGE AT SONIC VELOCITY. IT IS THE USER'S RESPONSIBILITY TO PROTECT AGAINST HEARING DAMAGE TO ANY BYSTANDERS.

PARTICLES MAY BE DISCHARGED WHEN THE RUPTURE DISK RUPTURES. THESE PARTICLES MAY BE PART OF THE RUPTURE DISK ITSELF, OR OTHER ENVIRONMENTAL MATTER IN THE SYSTEM. IT IS THE USER'S 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 DISK LIFE. SUCH LIFE SPAN IS AFFECTED BY CORROSION, CREEP AND FATIGUE, AND PHYSICAL DAMAGE. THESE CONDITIONS WILL DEGRADE THE RUPTURE DISK TO A LOWER SET PRESSURE. THE CUSTOMER AND/OR USER SHOULD BE PREPARED TO HANDLE PREMATURE FAILURE OF THE RUPTURE DISK. THE MEDIA OR OTHER ENVIRONMENTAL CONDITIONS SHOULD NOT ALLOW ANY BUILDUP OR SOLIDIFICATION OF MEDIA TO OCCUR ON A RUPTURE DISK. THIS MAY INCREASE THE PRESSURE SETTING OF THE RUPTURE DISK.

CUSTOMER AND/OR ITS INSTALLER SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF SELLER'S HOLDERS AND RUPTURE DISKS INTO A SYSTEM. CUSTOMER AND/OR ITS INSTALLER SHALL BE RESPONSIBLE FOR IMPROPER INSTALLATION AND PHYSICAL DAMAGE RESULTING THEREFROM, INCLUDING BUT NOT LIMITED TO, DAMAGE RESULTING FROM LEAKAGE, IMPROPER TORQUING, AND FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS.

I. Safety Precautions Before Installation

1. The Special 1/2" rupture Disk is a precision instrument and must be handled with extreme care. Rupture Disks should be installed only by qualified personnel familiar with rupture Disks and proper piping practices.
2. Do not install rupture Disk if there is any damage. A damaged rupture Disk is any rupture Disk with visible nicks or dents in the dome.
3. Do not remove any protective coverings until rupture Disk is ready to install.
4. Continental Disk Corporation does not recommend reinstalling a rupture Disk that has been removed from the holder as reinstallation may adversely affect the joint sealing capabilities and/or performance of the rupture Disk.

II. Preparation of Holders for Installation

New Installation

Clean all foreign material from the rupture Disk sealing area of both the holder inlet and outlet.

Replacement Installation

1. Remove the holder from the system and place on a flat surface.
2. Disassemble the holder by removing the pre-assembly cap screws on the holder outlet. Lift the holder outlet up and set aside; then remove the burst rupture Disk.
3. Clean the Rupture Disk sealing area of both the holder inlet and outlet. These

surfaces must be completely clean and free of all rust, corrosion, and foreign material to ensure a proper seal. Use of solvents, steel wool, or fine emery cloth is permissible. Do not re-machine. Do not use scraper or abrasives.

4. Inspect the rupture Disk sealing area for nicks, scratches, or pitting. If any of these conditions are present, take the appropriate steps for repair.
5. Remove any adhered gasket material from previous installation.

III. Assembly of the Rupture Disk and Holder (See Figure A)

Component parts of the holder assembly are illustrated in the proper installation sequence.

1. Carefully remove and Discard any shipping protectors furnished with rupture Disks. DO NOT INSTALL A SHIPPING PROTECTOR IN A HOLDER ASSEMBLY.
2. Place the holder inlet on a flat surface.
3. Place the Special 1/2" rupture Disk in the holder inlet with the dome side up.
4. Position the holder outlet carefully onto the rupture Disk as shown, ensuring that the rupture Disk is not damaged.
5. Fasten the assembly together by replacing and tightening the pre-assembly cap screws to finger tightness, ensuring that the gap between the inlet and outlet is equal all around.
6. Torque the pre-assembly cap screws with a calibrated torque wrench in a cross torquing pattern at 20% increments of recommended torque value of 3.5 Ft-Lbs/(4.7 Nm).

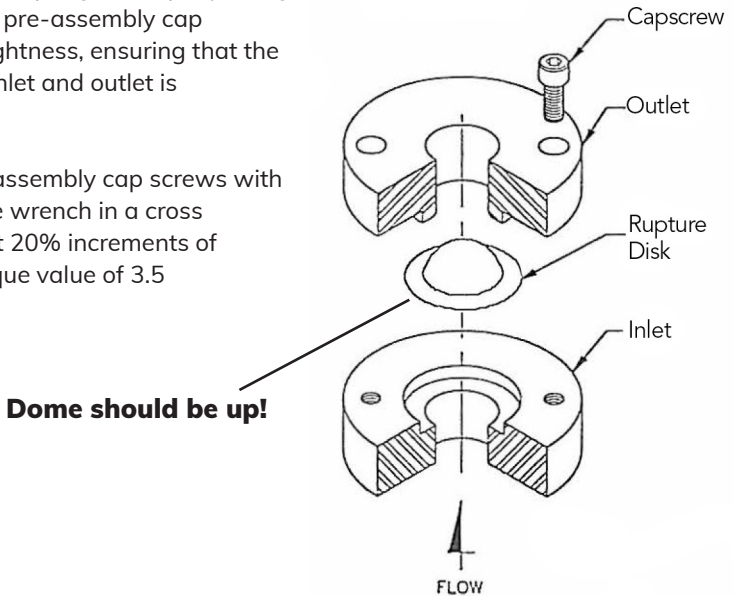


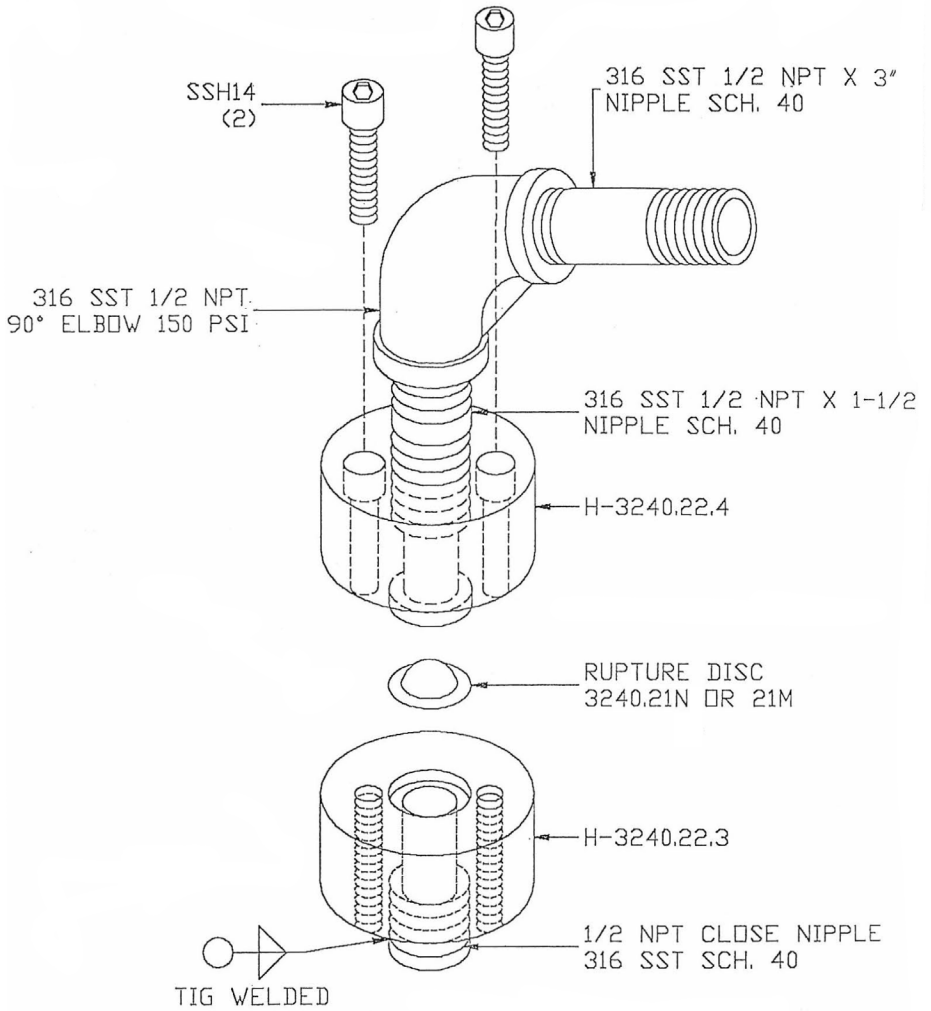
Figure A

IV. Installation of the Holder Assembly Into the System

1. Before placing the holder assembly into the system, ensure that the companion flange seal surfaces are clean and free of all rust, corrosion, and foreign material.
2. Install the holder assembly and customer furnished gaskets, WITH THE HOLDER ASSEMBLY POINTING IN THE PROPER FLOW DIRECTION.
3. Fasten system together per customer design and torque requirements.

V. Preventative Maintenance

1. Replace rupture Disk every year under normal conditions. A more frequent change-out may be necessary due to corrosion, fatigue, temperature, or adverse conditions. These factors must be evaluated by the user through actual service experience.
2. IF THE RUPTURE Disk IS NOT REPLACED PERIODICALLY WHEN EXPOSED TO THESE CONDITIONS, PREMATURE FAILURE OF THE RUPTURE Disk MAY OCCUR, THEREBY DISCHARGING THE PROCESS MEDIA.
3. To avoid extended downtime, maintain three spare rupture Disks in stock at all times for each holder in use. The number of spares required ultimately will be determined by service conditions.



Warranty

Humboldt Mfg. Co. warrants its products to be free from defects in material or workmanship. The exclusive remedy for this warranty is Humboldt Mfg. Co., factory replacement of any part or parts of such product, for the warranty of this product please refer to Humboldt Mfg. Co. catalog on Terms and Conditions of Sale. The purchaser is responsible for the transportation charges. Humboldt Mfg. Co. shall not be responsible under this warranty if the goods have been improperly maintained, installed, operated or the goods have been altered or modified so as to adversely affect the operation, use performance or durability or so as to change their intended use. The Humboldt Mfg. Co. liability under the warranty contained in this clause is limited to the repair or replacement of defective goods and making good, defective workmanship.

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