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DSS Gasket DSS-1000-N

Precision machined gasket for UHP CGA connections



- ✓ Soft-annealed Nickel 200 material
- ✓ Fits all 630/710 series CGA connections
- ✓ Recessed sealing surfaces
- ✓ Retaining clip for easy installation
- ✓ Compliant with CGA-TB9-1993
- ✓ Heat & Lot traceability for each gasket
- ✓ Hardness max 105 Vickers / 75 R15T
- ✓ 5Ra maximum surface roughness
- ✓ Hot DI cleaned & HEPA dried
- ✓ 5 mil nylon bagged for moisture protection

Critical Systems' DSS-1000-N is the premier gasket used for the sealing of CGA connections. Our unique design, materials treatment and finishing practices are proven to be supremely suited to the manufacturing of a robust and reliable gasket. Installation is simplified with the built-in retainer and our proprietary annealing process ensures a leak-free installation, and eliminates toroid wear issues. The DSS-1000-N is used by semiconductor manufacturing companies

Critical Systems is a leader in innovative product solutions. Call us today at (801) 572-5515 or check out our website: www.criticalsystemsinc.com.

DSS Gasket DSS-1000-N Usage Guidelines

Critical Systems Inc. recommends the following usage and handling for the DSS-1000-N UHP CGA gasket:

1. **Safety is of the utmost importance. Always follow the safety recommendation of the site owner, the gas producer and the equipment manufacturer.**
2. **A new gasket should be installed at each use. Used gaskets may cause damage to the toroids.**
3. **Use gaskets only for 630/710 connections. The same gasket can be used for the entire series.**
4. **Keep new gaskets in their protective package until installed.**
5. **Inspect the threads and sealing surface prior to each use. Do not connect parts which appear to be damaged.**
6. **Insert a gasket into the nipple by compressing its retaining clip and sliding the gasket into the nipple so that the open ends of the retaining clip are opposite the thumb notch access in the nipple.**
7. **630/710 connections are stamped with their CGA numbers. Always match these components before attempting to assemble.**
8. **Anti-rotational slots in the valves and keys on the nipples are meant only to prevent rotation between sealing surfaces during assembly, when the normal clockwise tightening torque is applied to the CGA 630/710 nut. Torque applied directly to the nipple during or after make-up may damage the valve connection.**
9. **Check before assembly that the gasket is retained by its clip in the nipple recess. Do not try to make a connection without a gasket. If back-purging is used prior to or during assembly, the gasket may be dislodged. To avoid this problem, minimal flows should be used when back-purging.**
10. **Only use connecting nipples that have the anti-rotation device. This also applies to gas tight outlet caps when using metal gaskets.**
11. **When removing gaskets, always use the notch provided. This will minimize the potential damage to the toroids in the nipple.**
12. **Always use a torque wrench when tightening CGA 630/710 connections. The recommended torque value for these connections with a nickel 200 gasket is 35 ft-lbs. Excessive torque will damage the connection and possibly result in a hazardous condition.**
13. **A made-up connection should be pressurized with inert gas and leak tested (using a suitable leak detector) prior to being put in service. If a leak is detected, the connection should be depressurized and remade using a new gasket and the recommended torque.**
14. **Do not attempt to increase the torque in an effort to achieve a seal. If the leak is detected after the procedure has been repeated, the connection is to be considered damaged. Contact your gas supplier for further assistance.**

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