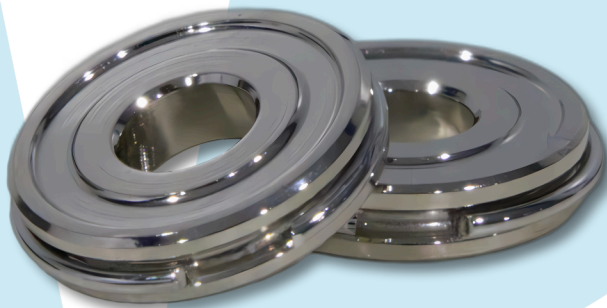


# DISS Gasket DSS-1000-N

## Precision Machined Gasket for UHP CGA Connections



- Soft-Annealed Nickel 200 Material
  - Stainless Steel & PCTFE Available by Special Order
- 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 / 75R15T
- 5Ra Maximum Surface Roughness
- Hot DI Cleaned & HEPA Dried
- 5 mil Nylon Bagged for Moisture Protection

Manufactured of soft annealed Nickel 200 and 100% visually inspected under magnification to assure proper fit and functionality, the DSS-1000-N is the premier gasket used for the sealing of UHP CGA (DISS) gas cylinder connections.

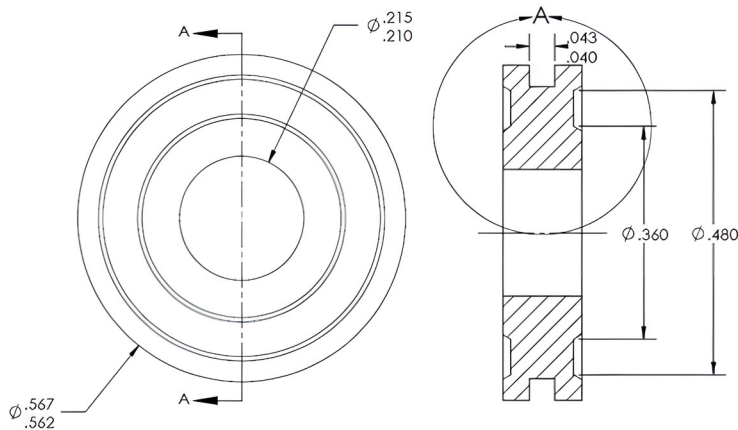
The DISS cylinder connection, designed for the demanding purity performance specification of the microelectronics industry, utilizes a non-rotating gland connection, and toroid faces, similar to those found in facesal fittings. The result is a much more robust, leak free and higher purity connection than traditional CGA connections.

Critical Systems' materials treatment and finishing practices are proven to be supremely suited to the performance of this connection. Installation is simplified with the built-in retainer and our proprietary annealing process ensures a leak-free installation, and eliminates torrid wear issues. The DSS-1000-N is the gasket of choice whenever high purity gases call for leak free connections.

Critical Systems, Inc. has been selling DISS Gaskets for over 25 years.

# Compatible With:

Model	Description	Model	Description
DISS632-P4M	632 x 1/4" NPT male	DISS714-P4M	714 x 1/4" NPT male
DISS632-V4M	632 x 1/4" male face seal	DISS714-V4M	714 x 1/4" male face seal
DISS632-T4S	632 x 1/4" tube stub	DISS714-T4S	714 x 1/4" tube stub
DISS634-P4M	634 x 1/4" NPT male	DISS716-P4M	716 x 1/4" NPT male
DISS634-V4M	634 x 1/4" male face seal	DISS716-V4M	716 x 1/4" male face seal
DISS634-T4S	634 x 1/4" tube stub	DISS716-T4S	716 x 1/4" tube stub
DISS636-P4M	636 x 1/4" NPT male	DISS718-P4M	718 x 1/4" NPT male
DISS636-V4M	636 x 1/4" male face seal	DISS718-V4M	718 x 1/4" male face seal
DISS636-T4S	636 x 1/4" tube stub	DISS718-T4S	718 x 1/4" tube stub
DISS638-P4M	638 x 1/4" NPT male	DISS720-P4M	720 x 1/4" NPT male
DISS638-V4M	638 x 1/4" male face seal	DISS720-V4M	720 x 1/4" male face seal
DISS638-T4S	638 x 1/4" tube stub	DISS720-T4S	720 x 1/4" tube stub
DISS640-P4M	640 x 1/4" NPT male	DISS722-P4M	722 x 1/4" NPT male
DISS640-V4M	640 x 1/4" male face seal	DISS722-V4M	722 x 1/4" male face seal
DISS640-T4S	640 x 1/4" tube stub	DISS722-T4S	722 x 1/4" tube stub
DISS642-P4M	642 x 1/4" NPT male	DISS724-P4M	724 x 1/4" NPT male
DISS642-V4M	642 x 1/4" male face seal	DISS724-V4M	724 x 1/4" male face seal
DISS642-T4S	642 x 1/4" tube stub	DISS724-T4S	724 x 1/4" tube stub
DISS712-P4M	712 x 1/4" NPT male	DISS726-P4M	726 x 1/4" NPT male
DISS712-V4M	712 x 1/4" male face seal	DISS726-V4M	726 x 1/4" male face seal
DISS712-T4S	712 x 1/4" tube stub	DISS726-T4S	726 x 1/4" tube stub



# 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 assemble, 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 gaskets 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.