

# GAS INJECTORS FOR VACUUM END CAP FLANGES

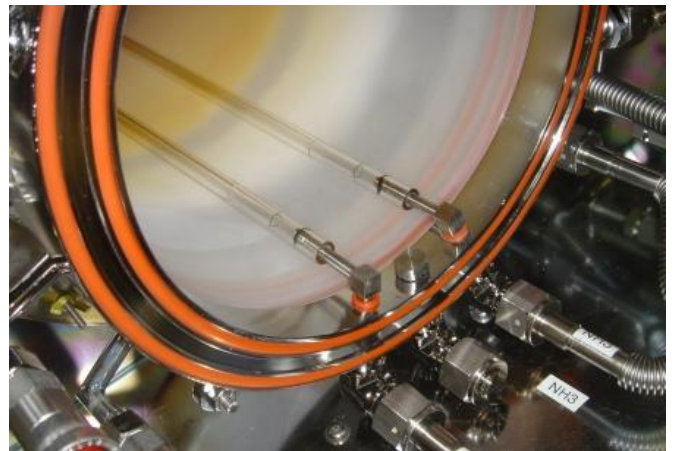


INVAC SYSTEMS offers a full line of vacuum flange assemblies and products for Atmospheric and LPCVD applications. Whether your process is Poly Silicon, Silicon Nitride, Teos, or Low Temperature Thermal Anneals, we have flanges to meet your requirements.

Great additions to any flange are Stainless Steel Gas Injectors. The double o-ring seal allows a vacuum tight seal between the injector and the ID of the flange.

We offer short injectors for those that want to inject gas horizontally to improve uniformity. This style of injector has been proven especially effective on Silane, DCS, and NH<sub>3</sub> for Poly and Nitride applications.

We offer long injectors to get to make sure your gas is injected far enough back in the process chamber to be in the heat zone.



We offer combination short injectors with quartz extension tubes that allow the gas to be injected anywhere along the length of the process chamber.



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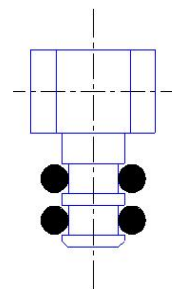
INVAC SYSTEMS gas injectors can be used on your front or rear vacuum flange. Our injectors use a double o-ring seal to eliminate any gas leakage between the stainless gas injector and the quartz injector or extension port.

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Do you HAVE UNUSED PORTS ON YOUR FRONT FLANGE?

INVAC SYSTEMS offers a solution: **PORT PLUGS**

Unused ports on your Front or Rear Flange often get filled up with residue or byproducts from processes such as Silicon Nitride and Teos. Help eliminate potential particle problems by installing Port Plugs. Port Plugs will seal all unused holes without obstructing clearance in the process chamber.



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