

THIS SHEET HAS BEEN  
REPLACED

VALVED COUPLING FOR ULTRA HIGH PURITY GAS  
DISTRIBUTION SYSTEMS

Abstract of the Disclosure

Valved couplers 20 and gas processing components particularly suitable for ultra-high purity gas distribution for use in semiconductor manufacturing. In the couplers, a valve stem/bullnose 34 seals the aperture of the coupler 56 immediately adjacent the exterior of the coupler, so that only a minimal amount of the wetted surface of the coupler is exposed to the external environment. A gas processing component (e.g., a filter 120), or an entire integrated gas stick assembly 12, may be sealed from the exterior environment at both its inlet and outlet sides, by these valved couplers. As a result, the entire device can be purged after manufacture and left in a controlled environment during shipment and installation, reducing the need for purging after installation.

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