

ANCORP

HIGH VACUUM PRODUCTS

PRODUCT OVERVIEW

EMPOWERING SCIENCE AND
TECHNOLOGY SINCE 1965



MARKET AND APPLICATIONS

For over 50 years, ANCORP has manufactured high and ultra-high vacuum chambers, valves, and components for leading university research centers, national laboratories, vacuum coaters, semiconductor equipment manufacturers, and wafer fabs.

ANCORP equipment is found in materials research labs (energy dispersive spectroscopy, low energy electron diffraction (LEED), mass spectrometry, and Auger surface analysis), physics research labs particle accelerators, condensed matter, nanotechnology), and chemical engineering labs (semiconductor processing, solar). Our industrial customers are involved in coating (architectural glass, automotive parts, compact disks), helium leak detection, aerospace, and semiconductor processing (chemical vapor deposition, physical vapor deposition, etching, and ion implantation).



Chambers and Custom Fabrication

ANCORP custom cylindrical, box, and spherical vacuum chambers can be found in all markets and applications that we serve. We also offer other custom products such as cluster flanges, baseplates, and feedthrough collars.

Send us your specifications and drawings, and our engineers will provide a solution tailored to your specific needs and requirements.



Quick-Turn Fabrication

ANCORP has added a lean manufacturing cell dedicated to the rapid turnaround of high and ultra-high vacuum weldments, spools, and manifolds incorporating standard flanges, tubing, and fittings. ANCORP can fabricate components using non-standard dimensions and flange configurations per customers' specifications.



Traps and Filters

ANCORP offers a range of traps and filters suitable for a high vacuum setting. Our trap product line includes dry-ice traps, LN2 traps, molecular sieve traps, rechargeable coaxial traps, sealed traps, and vacu-view traps. Our filter product line includes particulate filters, open and closed exhaust filters, and hermetic exhaust filters.



Isolation Valves

ANCORP ball valves set the industry standard for vacuum isolation in harsh environments and demanding, particulate-rich applications.

ANCORP is also an official distributor of VAT gate and poppet valves, which are suitable for high vacuum, UHV, and XHV applications.

CAPABILITIES

State-of-the-art, multi-axis, CNC machine centers are at the heart of ANCORP's operations. Our work processes are built upon the dual goals of high quality and rapid turnaround. ANCORP uses tungsten inert gas (TIG/ GTAW) welding techniques with high purity argon as the back II/purge gas. All weld joints and sealing surfaces are certified with state-of-the-art helium mass spectrometer leak detectors to a maximum rate of 1×10^{-9} std. cc helium.

PRODUCTS

ANCORP maintains a standard offering of over 3,600 parts. We specialize in customizing standard flanges and components to fit your vacuum system. Introduced below is a brief sampling of our growing portfolio of products:



Flanges and Fittings

ANCORP offers a complete range of vacuum flanges, including ConFlat® (CF), Wire Seal, ISO QF (NW, KF, ISO-KF), ISO LF (MF, PF, ISO-K), and ASA/ANSI flanges. Flanges come standard in 304 stainless steel, and are also offered in aluminum, 316L, and 316LN stainless steel. Our fittings selection includes tees, elbows, 180° degree returns, 4-way, 5-way, 6-way crosses, bellows, flexible metal hoses, and more.



Feedthroughs

ANCORP electrical, rotary motion, fluid and gas, and baseplate coupling feedthroughs facilitate the transfer of power, motion, and fluids into your vacuum system.



Vacuum Viewports

ANCORP offers a wide selection of vacuum viewports with borosilicate glass, quartz, fused silica, sapphire, zinc selenide, magnesium fluoride, and calcium fluoride windows and designs rated for high and ultra-high vacuum (UHV) applications. Viewport coatings offered are Single AR Coating and Broad-band AR Coating. Custom viewports are available upon request.



System Safety - UHV Burst Disk

The UHV Burst Disk is a component that provides pressure relief for ultra-high vacuum systems. It prevents over-pressurization when system pressures pass atmospheric pressure. ANCORP offers three variations: The low pressure burst disk, featuring 5-7 PSIG, the ASME Overpressure Burst Disk, featuring 9-11.5 PSIG, and the High Pressure Burst Disk, featuring 25 PSIG.

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