

SPECIFICATIONS

Construction

Material: 304 stainless steel
Flanges: CF, tapped and clearance holes
see diagram for details
Finish: Electropolished

Operating orientation: Any

Temperature range: -200°C to 450°C

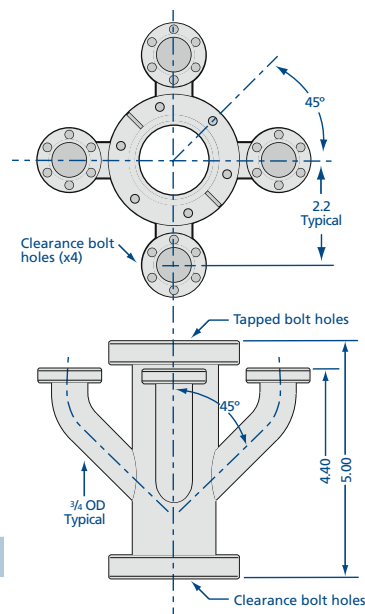
Vacuum range: $\geq 10^{-10}$ Torr - UHV

Utility Hat

Feedthroughs can be mounted to the base flange of the XYZ Manipulator or to a utility hat. A utility hat is the preferred method when X-Y movements of the sample will cause excessive flexing and abrading of utility lines in vacuum. The utility hat can be mounted between the precision rotary feedthrough and the traveling flange on top of the XYZ to provide X-Y movement of utility lines with the sample. Additionally, the utility hat can be used on top of a differentially pumped rotary seal to allow 360° polar rotation of utility lines along with the sample. (See photo next page.) The standard utility hat comes with a 1 $\frac{3}{4}$ inch tube, two 2 $\frac{3}{4}$ inch CF flanges and four 1 $\frac{1}{3}$ inch CF ports for mounting feedthroughs. Standard finish is electropolished. Custom sizes can be supplied upon request.

MODEL NUMBER

UH-175-2-133-4



SPECIFICATIONS

Construction

Bellows: 1 $\frac{1}{2}$ inch ID stainless steel
Flanges: 2 $\frac{3}{4}$ inch CF, tapped holes
Pivots: Roller bearing

Motion: $\pm 5^\circ$ XY adjustment range, knurled knob adjustment

Operating orientation: Any

Temperature

Maximum bakeout: 200°C
Operating: 20°C (ambient)

Vacuum range: $\geq 10^{-10}$ Torr - UHV

Options: Micrometers "-M1" and "-M2"

Guarantee: Five years

Alignment Gimbals

Alignment gimbals allow a precise angle alignment to be established (and repeated) between two flanges. When the base flange of a gimbal is attached to the chamber flange (or traveling stage of a positioning device) and a probe is attached to the tilting flange, probe angle and tip position can be changed. Alignment gimbals were designed as an inexpensive method to align docking systems and actuate sample transfers. Gimbals cantilever the (horizontal) load when the linear feedthrough flange and the load lock are horizontally mounted and can also compensate for droop in long horizontal mounted linear feedthrough probes. Single axis alignment gimbals are also available. Call for pricing and availability.

MODEL NUMBER

DESCRIPTION

AG-275-150	Knurled knob adjustment on both axes
AG-275-150-M1	Micrometer adjustment on one axis, knurled knob on the other axis
AG-275-150-M2	Micrometer adjustment on both axes



Shown with micrometer option "-M2"

