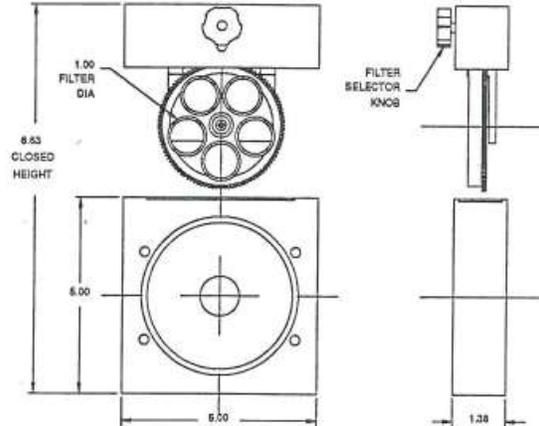
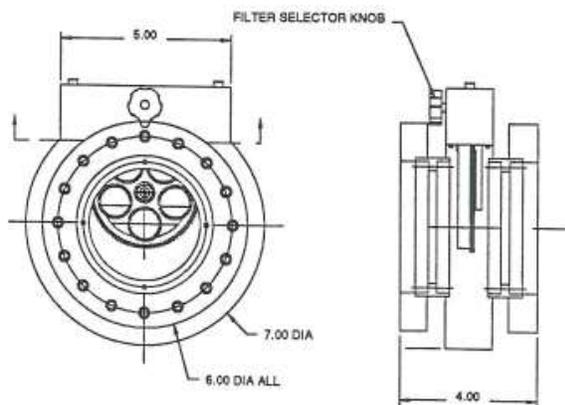


Model 648 - Vacuum Filter Wheel

In line design mounts directly to McPherson slit bodies. This unit is designed for use with five (5) 1" diameter samples or filters. The wheel can be manually Indexed into position while under vacuum. Positive detents and numbered readout provide accurate positioning and feedback as to which filter is in the beam. When the 648 is purchased in combination with isolation valves, this filter assembly permits to easily and rapidly remove the filter or sample wheel portion - enabling exchange in one or all five locations - while the remainder of the system continues in vacuo. Designed for use in the 10-6 Torr vacuum range.

If system requirements call for automation, the model 648-1 should be specified. The 648-1 (pictured) features motorized filter changes and RS232 operation.

**Model 648UHV - Semi-UHV Filter Wheel**

With design elements borrowed from the model 648, the model 648UHV offers the user all the same features with improved vacuum integrity. Terminating in 6" diameter, all metal sealed flanges (DN100CF), this assembly utilizes only several small o-rings. Adaptable to standard all metal sealed instrumentation or assemblies, this unit is capable of working well into the low 10-8 Torr vacuum region. When working with delicate foil or VYNS type filters, this assembly's high conductance design might prevent blow outs caused by differences in vacuum. **For all metal sealed designs, suitable for 10-10 Torr vacuum operation, please see McPherson model 251G.**

Model 251-G UHV Filter Holder Assembly

The filter holder assembly is designed to be bolted directly to the entrance flange of our UHV monochromators. The housing (1) is all stainless steel with metal sealed DN100CF flanges (2). A drum type filter turret (3) holds two filters up to 25 mm in diameter by 6mm thick and one straight thru position. The filters are indexed into the beam from outside the vacuum by an all metal sealed rotary feed thru (4). All the components are compatible with ultra high vacuum UHV standards and may be used to 10-10 Torr vacuum.

