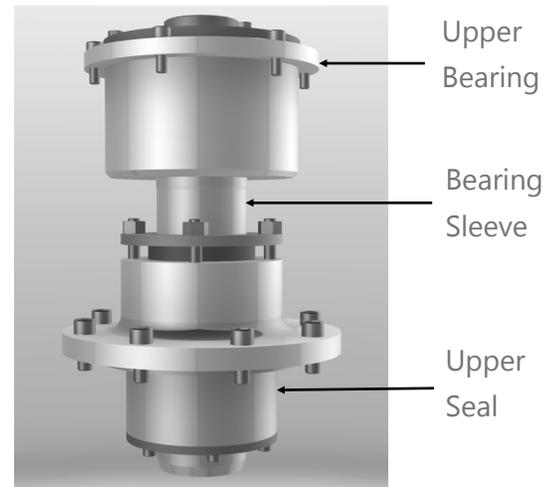


The upper bearing is installed above, and separated from the upper seal. This arrangement protects the bearing from damage in the event there is a seal leak. The proven reliability of this design means Steri has the confidence to offer only this one type of bearing for all applications.

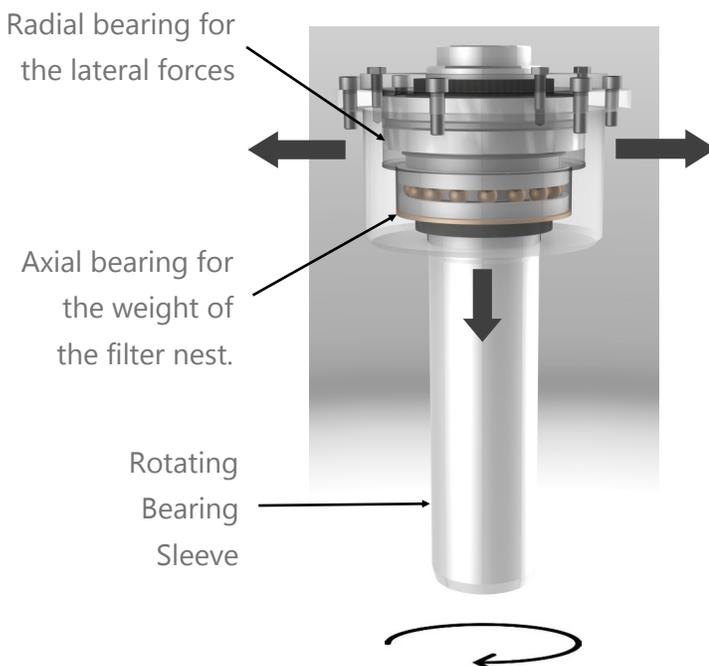
## Standard Upper Bearing

The upper bearing facilitates the smooth rotation of the filter nest. Typically you would expect to find the bearings and seals making contact with the filter nest shaft. This however leaves the shaft vulnerable to damage. Steri has added a bearing sleeve to the design as a sacrificial interface between the shaft and potential rotational wear. The bearing sleeve fits over, and is fixed to, the filter nest shaft. The interface between the shaft and the sleeve is sealed with a gasket. The bearing sleeve supports the filter nest through the upper bearing and the inner races of the bearings contact the bearing sleeve. The upper bearing is located several inches above the upper seal. This arrangement protects the bearing from damage in the event of seal leakage.



*Upper Bearing with Seal*

## Bearing Arrangement



### Radial & Axial Bearings

The upper bearing uses two bearings working in tandem to allow smooth rotation of the filter shaft. There is a radial bearing for the lateral forces and an axial bearing that handles the thrust load of the weight of the filter nest.

### Lip Seals

The bearing housing is sealed with a lip seal at the top and bottom. The bearing housing can be re-greased without removing the entire filter nest. Long service life from the bearings can be expected as the filter nest spins only for about 1 minute per filtration cycle.