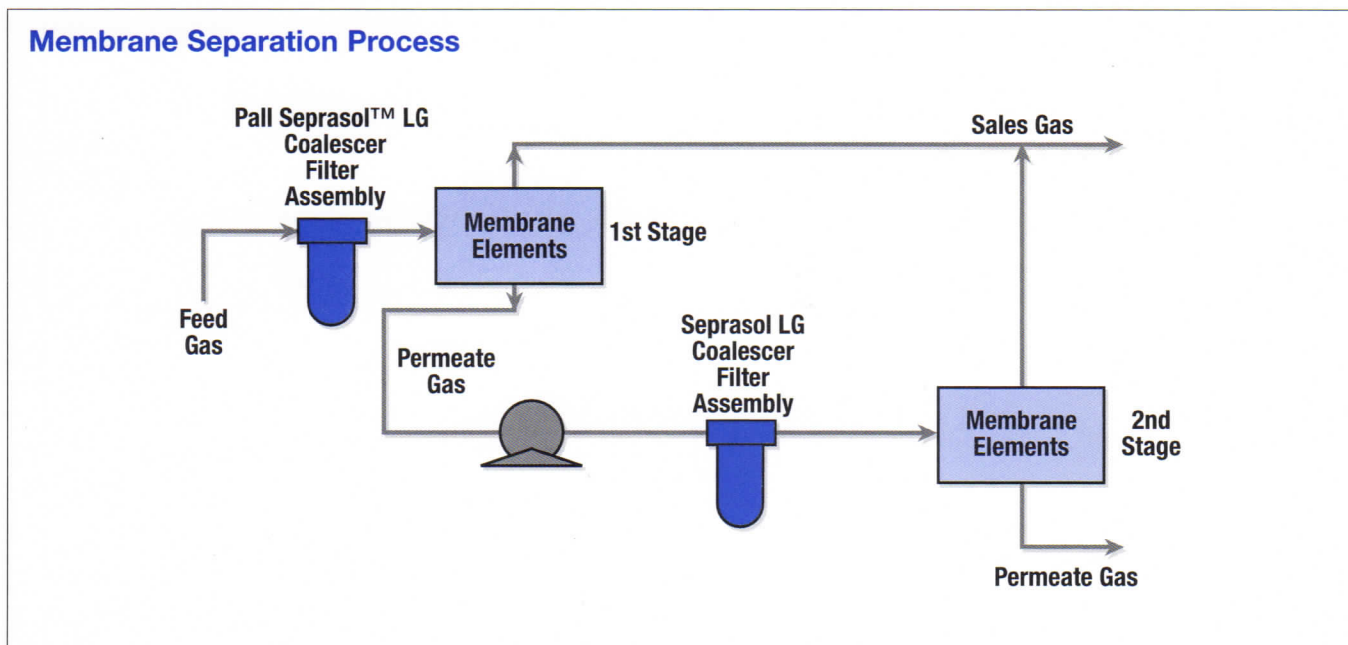


## Gas Separation Membrane Protection



### Application Background

Gas separation membranes for separating components from a gas stream are gaining popularity. They are often used to separate CO<sub>2</sub> from hydrocarbon gases, hydrogen and ammonia. Membranes are simple, modular in nature, have no moving parts, and can package a high membrane area in a small volume. Most membranes are packaged commercially in either a spiral-wound or hollow-fiber configuration. All membranes act as very fine filters and trap particles and other contaminants. Once they are plugged, even partially, their separation efficiency (directly dependent on the available porous volume) is decreased. In addition, membranes themselves are expensive and care must be taken to protect them from contaminants which have a serious and irreversible effect on membrane life.

### HCP Filter Recommendations

Pall Seprazol Liquid/Gas Coalescer CC3LG7A

### Minimarkets

Hydrogen Recovery and Recycling  
Carbon Dioxide Separation  
Air Separation into Nitrogen and Oxygen

### References

GAS 4100 - Guide to Gas Filters & Housings  
COA 100 - Pall Coalescer Brochure



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