



SERIES OIL FILTER

Design Benefits

- Virtually eliminates the need for oil changes due to suspended particulate in circulation
- Unsurpassed filtering efficiency
99% removal of 3 micron sized particles
98% removal of 2 micron sized particles
- Element utilizes a pleated design for maximum surface area
- Unsurpassed filtration capacities
- High flow capacities with low pressure drop
- Filter element utilizes an O-ring seal
- Inert microglass filter material ensures lubricant compatibility
- Dimensions allow for easy replacement of current filter



With the use of the new polyolester (POE) oils, system chemistry changed. Unlike mineral and alkylbenzene oils, POE oil has solvent-like tendencies. POE oil has the ability to suspend and recirculate small, solid contaminants left from system installation or retrofit. Analysis of POE oil samples taken from actual systems have shown the oil to suspend and recirculate a high concentration of 2-20 micron sized particles, with the largest percentage between 2-10 microns. Although some particles are smaller than bearing tolerances, studies have shown bearing life can still be affected. Bearing wear depends upon the size, hardness, and concentration of particles in circulation. To effectively remove these small particles, Sporlan developed a new type of oil filter.

The **OF Series Oil Filters** are designed to be 99% efficient in removing 3 micron sized particles and yet have sufficient flow capacity at a low pressure drop. The unsurpassed filtration ability of the oil filters will assure clean POE, mineral or alkylbenzene oil is returned to the compressors. Clean oil ensures proper operation of the oil level control and minimizes compressor wear. The Sporlan OF Series Oil Filters were designed to virtually eliminate the need for oil changes resulting from suspended solid contaminants in circulation.

The Sporlan Catch-All or SF-283-F Suction Filter has been used for many years as an oil filter in refrigeration rack systems with mineral or alkylbenzene oil.

Specifications

UNIT	DESCRIPTION	CONNECTIONS	FILTERING AREA cm ²	OVERALL LENGTH mm	SHELL DIAMETER mm	UL RATED WORKING PRESSURE – bar
OF-303-T	Oil Filter	3/8" SAE Flare	2097	246	76	34.5
OF-303-BP-T	Oil Filter with Bypass Feature			270		
ROF-413-T*	Replaceable Oil Filter	Field Support		206	89	27.5

*An OFE-1 Replaceable Filter Element must be purchased separately. The A-175-1 mounting bracket can be used for the ROF-413T Replaceable Oil Filter.
Note: The OF Series Oil Filters are not suitable for use on ammonia systems