

Commercial Business Jet Aircraft Engine

Rated at 1900 lbf thrust, this small, twin-spool turbfan engine is designed primarily for the light business jet market.



Pump Description:

This compact multi-circuit gerotor style lube and scavenge pump provides independent functions of engine lubrication and oil scavenge from two bearing sumps. Designed for a commercial aviation turbfan engine, the assembly contains a gerotor stack contained in cast iron eccentric rings separated by aluminum port plates. The rotor stack is inserted into the bore of a cast aluminum housing that is loaded axially by a spring washer to compensate for thermal expansion. This pump operates efficiently under the most severe ambient operating conditions of 330 degF and 4 psia inlet pressure. The pump assembly also integrates a magnetic plug and strainer in the pressure element inlet line and the rear bearing scavenge element, and a pressure relief valve to protect the lube element.

Selected Performance Data:

Operating Fluid	MIL-L-23699 or MIL-L-7808
Operating Speed	11,000 rpm
Lube Flow	2.4 GPM
Lube Pressure	80 psid
Front Scavenge Flow	3.6 GPM
Rear Scavenge Flow	3.6 GPM
Weight	2.4 lbs.
MTBO	20,000 hours
Duty Cycle	Continuous

