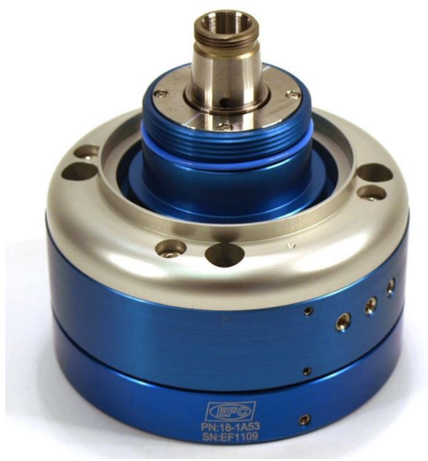
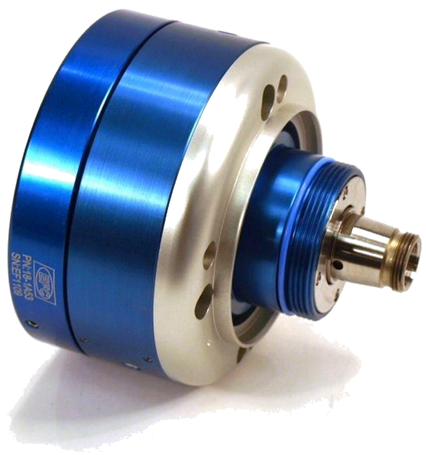
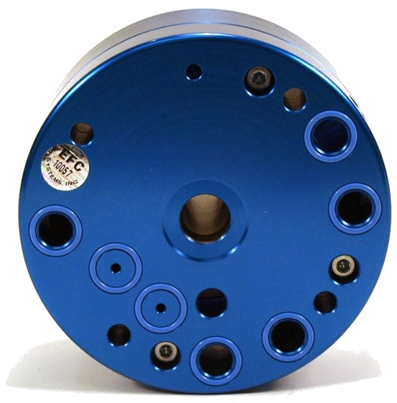
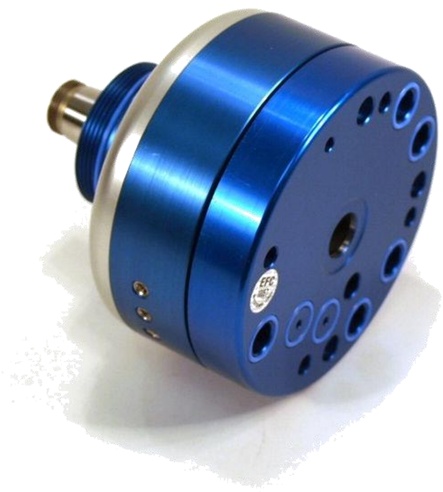
18-1A53 Air Bearing Motor Spec Sheet









Parameter #	Parameter Type	Parameter Output
1	Turbine Composition	Housing: Aircraft Grade Aluminum Shaft: Stainless Steel without coating Bearing: Carbon Sleeve
2	Turbine Speed Range	10,000 RPM Minimum - 70,000 RPM Maximum
3	Drive Air (DA) Pressure Range	4.4 psi (0.3 bar) Minimum - 145 psi (10.0 Bar) Maximum
4	Recommended Bearing Air (BE) Pressure	90 psi (6.2 bar) ± 10 psi (0.69 bar)
5	Bearing Air (BE) Pressure Range	80 psi (5.5 bar) Minimum - 150 psi (10.3 bar) Maximum
6	Recommended Brake Air (BA) Pressure	90 psi (6.2 bar)
7	Bearing Air (BE) Consumption @ 30,000 RPM @ 90 psi Bearing Air (BE) Pressure	90 slpm (82.5 nlpm)
8	Drive Air (DA) Consumption @ 30,000 RPM @ 90 psi Bearing Air (BE) Pressure	92 slpm (84.3 nlpm)
9	Total Air Consumption @ 90 psi @ 30,000 RPM	183 slpm (167.7 nlpm)

* Total Air Consumption is calculated using the following formula while accounting for ± 10 slpm in the total due to flow meter error: Bearing Air (BE) + Drive Air (DA) *

* All flow measurements were taken with a M-1000SLM-D Alicat Scientific Flow Meter at 68°Fahrenheit and 38% Relative Humidity *

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