

VULCAN

ULTRA-HIGH PERFORMANCE MOTORS & ACTUATORS

Standard Features

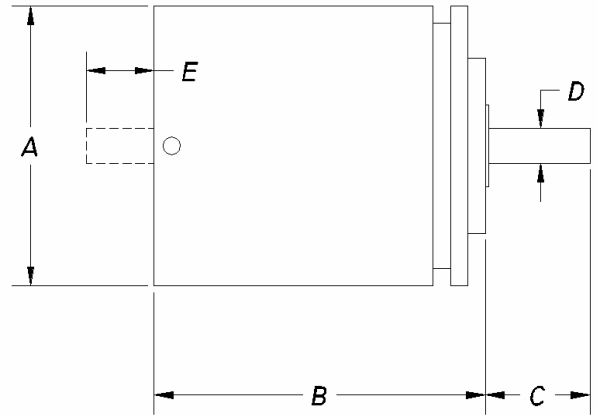
- Designed for extreme duty and environment
- Very High efficiency and low inertia
- Low cogging torque & high servo efficiency
- Vacuum environment operation standard
- High temperature (435°F) operation standard
- Highest torque density available anywhere in their size class
- Samarium Cobalt magnets standard
- 3phase Delta winding standard
- Class 'H' insulation standard
- Windings optimization for Voltage, RPM and Torque requirements

Available Custom Features

- Autoclavable option for medical applications
- High ambient pressure operation option
- Ultra High temperature option (485 °F)
- 3phase Wye windings available
- Class 'M' insulation available
- Matched gearheads available
- Neodymium magnets available
- Custom actuator & component design services available
- Space and military qualified designs
- Hall effect and resolver commutation sensors available

Applications

- Autoclaves/pressure vessels, oilfield downhole, subsea control, & space vehicles



Motor	Dia (A)	Length (B)	Peak Torque	Continuous Torque	Motor Constant
	in	in	oz-in	oz-in	oz-in/watt ^{1/2}
Vulcan 801	0.8	0.9	16	0.7	0.5
Vulcan 802	0.8	1.2	31	1.4	0.9
Vulcan 803	0.8	1.4	44	2	1.3
Vulcan 1201	1.2	1.3	36	3.4	1.4
Vulcan 1203	1.2	2	120	9.8	3.6
Vulcan 1205	1.2	2.3	210	16	5.2
Vulcan 1501	1.5	1.1	23	7.5	1.7
Vulcan 1504	1.5	1.9	100	22	5.6
Vulcan 1507	1.5	3.5	475	57	11.8
Vulcan 1601	1.6	1.1	60	7.5	2.5
Vulcan 1604	1.6	1.9	235	26	7.3
Vulcan 1607	1.6	3.6	670	65	14.8
Vulcan 2201	2.1	1.5	130	15	4.3
Vulcan 2204	2.1	2.3	525	52.1	13.4
Vulcan 2207	2.1	4.3	1910	125	27.5
Vulcan 2501	2.5	1.5	210	27.6	6.8
Vulcan 2505	2.5	2.5	1050	112	23
Vulcan 2508	2.5	4.2	2330	225	39.5
Vulcan 3101	3.1	1.5	281	57	12
Vulcan 3105	3.1	2.7	1355	225	40.5
Vulcan 3109	3.1	5	3890	550	78
Vulcan 3901	3.9	1.7	480	127	21
Vulcan 3905	3.9	3.6	2510	495	71.5
Vulcan 3908	3.9	6	5700	1050	125

VULCAN ACTUATORS