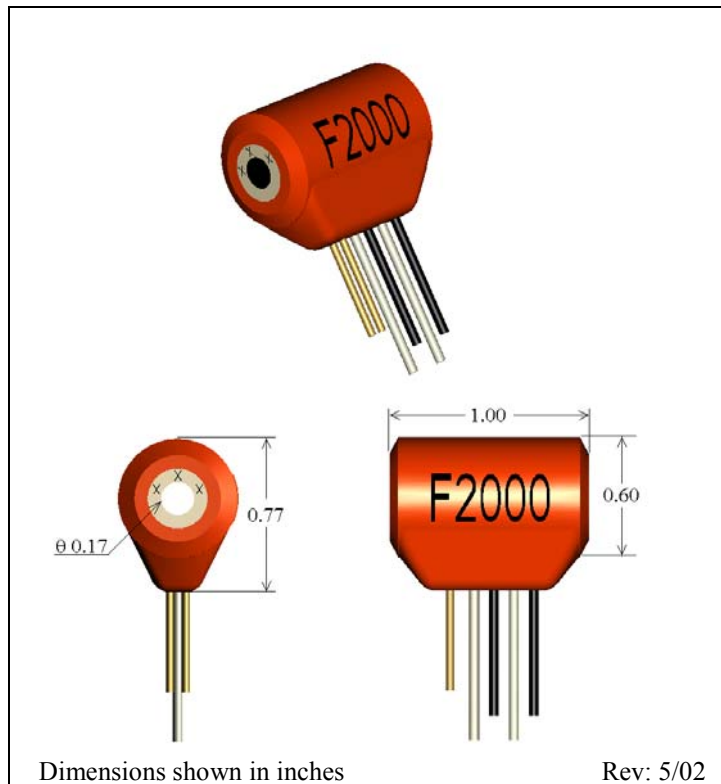


Frangibolt[®] Actuator

(Model FC2-16-31SR2)

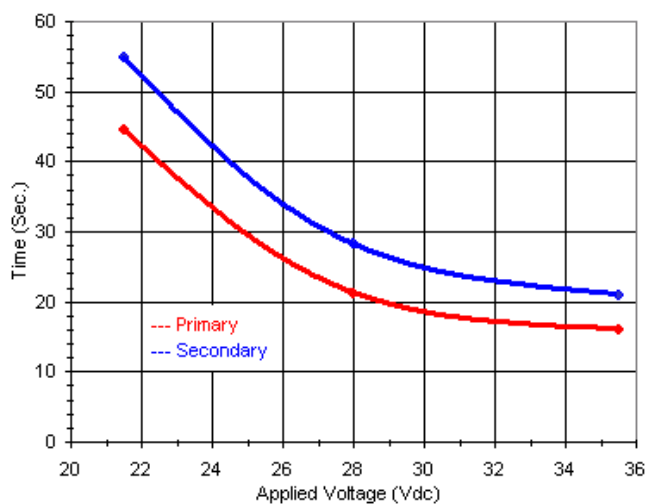
The model FC2-16-31SR2 is the smallest Frangibolt actuator produced by TiNi Aerospace. It is designed to operate with any standard high strength #8 size bolt or stud¹. The small envelope and minimal power consumption (25 Watts @ 28 Vdc) make's it ideal for applications with stringent size and power requirements. The model FC2-16-31SR2 is also the fastest Frangibolt actuator capable of operating in less than 10 seconds. As with all other Frangibolt Actuators, the FC2-16-31SR2 is designed to have a high fatigue life and is easily reset using TiNi's portable compression tool FBT-CT2.

¹ TiNi Aerospace must provide the specially notched Titanium fastener. This is largely application-dependent and is readily manufactured to customer specification. See Frangibolt Fastener Specification Sheet.



Function Time²

(@ 23 °C)



Specifications

Max Load Support & Release	2200 N	(500 lbf)
Max Joint Length	4.4 cm	(1.75 in)
Operational Voltage	22 to 36 Vdc	
Minimum Operating Temp.	-65 °C	(-85 °F)
Maximum Operating Temp. ²	+80 °C	(176 °F)
Heater Resistance	31 Ohms	
Mass	20 gm	(0.71 oz)
Power Consumption	25 Watts @ 28 Vdc	
Life Cycles	60 Cycles Min.	
Features:	Redundant Heater	
	Reusable	
	TC Sensor	

² Note that the function times shown above are for the higher transition temperature "FC" series Frangibolt Actuators which actuate at roughly 100°C. TiNi Aerospace also manufactures a line of "FB" series Frangibolt actuators which have a lower +75°C actuation temperature and therefore have a ~25% faster function time. Selection between the two should be based on maximum operating temperature.