

# FAQ's - 1/2" Disc Thermostats

**Q: What is the standard differential (hysteresis or  $\Delta T$ ) of the 1/2" Disc Thermostat?**

**A:** 30°F (17°C)

**Q: Are tighter or wider differentials available?**

**A:** Yes, 15°F to 100°F (8°C-56°C)

**Q: What is the tolerance on opening and reset?**

**A:** Tolerances are as follows:

**50°F to 249°F (10 to 120°C)**

OA	Open	+/- 5.4°F	(3°C)
	Close	+/- 10.8°F	(6°C)
CA	Open	+/-10.8°F	(6°C)
	Close	+/-7.2°F	(4°C)

**250°F to 320°F (121°C to 160°C)**

OA	Open	+/-7.2°F	(4°C)
	Close	+/-10.8°F	(6°C)
CA	Open	+/-10.8°F	(6°C)
	Close	+/-7.2°F	(4°C)

**Q: Are 1/2" Discs available in a one shot (one shot meaning that it actuates once and cannot be reset)?**

**A:** Yes

**Q: Can the thermostat withstand vibration?**

**A:** Yes, standard test is 2mm amplitude with a vibration frequency of 1,000 C.P.M. (Cycles per minute) applied in the x, y, and z direction for duration of 20 minutes.

**Q: Can the thermostats withstand DC voltages?**

**A:** Yes, tested by **manufacturing only** the following ratings apply:

12 VDC 10 Amps	30,000+ cycles
24 VDC 7.5 Amps	30,000+ cycles
48 VDC 4.5 Amps	30,000+ cycles

**Q: Are the OA and CA thermostats submersible?**

**A:** No, however Selco has the ability to over mold thermostats so that they are moisture resistant.

**Q: How do I know if I need gold contacts?**

**A:** If your amperage is .250 Amps (250 mA) or less. Gold contacts prevent premature failure due to oxidation of the contacts at low amperage levels. Oxidation forms an insulation layer on the contact and low current does not arc enough to burn off the oxidation.

**Q: At what rate of temperature rise will these devices remain accurate?**

**A:** Devices are tested at 1.8°F (1 °C) per Minute but can see a rate of temperature rise as fast as 10°F and remain accurate.

**Q: Will the thermostat fail open or closed?**

**A:** There is a 90 % probability that the thermostat will fail open.

**Q: What is the Mean Time Between Failure (MTBF)?**

For more information on Selco Products please visit us at: [www.selcoproducts.com](http://www.selcoproducts.com)



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