# Introduction

This document is part of a test case for the Trace Tool. As such, these are not real requirements, but they do resemble real requirements.

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# System Details

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# Software Requirements

**AID:SRS:1** The dosing algorithm **shall** include a proportional gain term. The algorithm **shall** allow proportional gains in the range of 0 to 2.0 in increments of 0.001 **[PUMP:PRS:4000] [PUMP:DER:2]**

**AID:SRS:2** The dosing algorithm **shall** include a derivative gain term. The algorithm **shall** allow derivative gains in the range of 0 to 2.0 in increments of 0.001**[PUMP:PRS:4000] [PUMP:DER:2]**

**AID:SRS:10** The dosing algorithm **shall** include an integral gain term. The algorithm **shall** allow integral gains in the range of 0 to 2.0 in increments of 0.001**[PUMP:PRS:4000] [PUMP:DER:2]**

**AID:SRS:12** The dosing algorithm **shall** include an integrator window to minimize limit-cycling. The window shall be settable at compile time to a range of 0.002 to 0.01 in increments of 0.001 **[PUMP:PRS:4000] [PUMP:DER:2]**

**AID:SRS:20** The dosing algorithm **shall** include anti-windup reset protection. **[PUMP:PRS:4000] [PUMP:DER:2]**