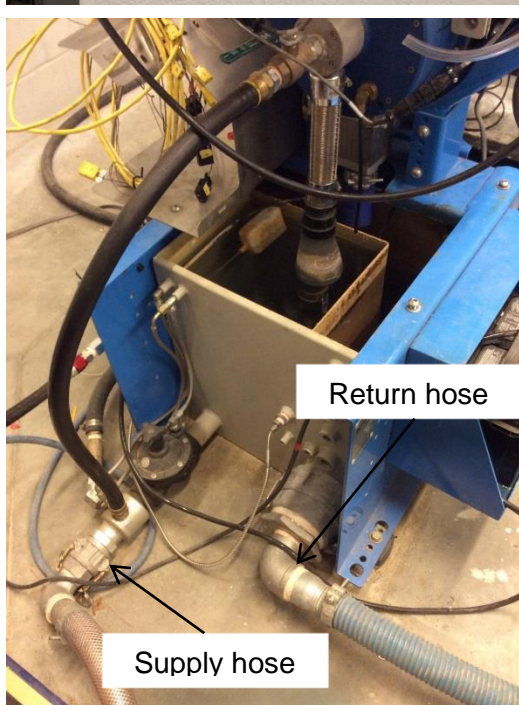
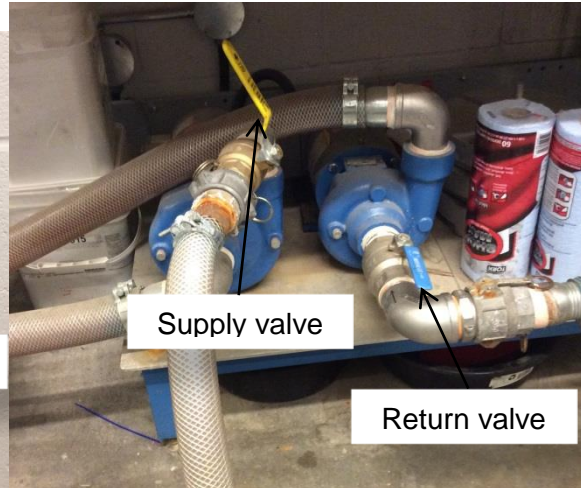
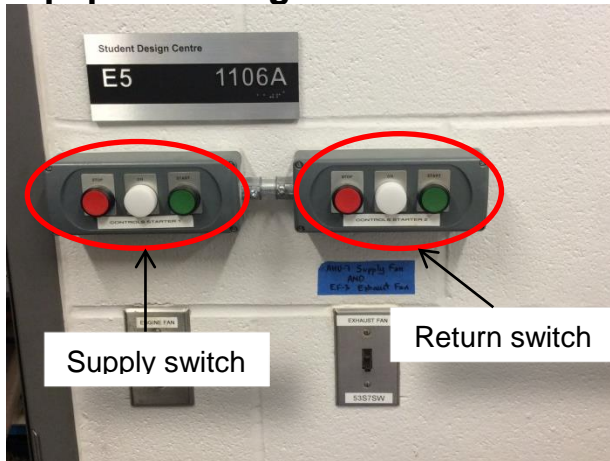


Equipment	Dynomometer Water Supply
Description	The system that supplies water for proper SuperFlow SF-902 operation
Team	Student Design Centre
Location	E5-1106A, E5-1107A
SOP created	2016-01-12
SOP revised	
Manual location	
Authorized trainers	Yulian Bagnol Stefanie Bruinsma Peter Teertsra
Support technicians	Yulian Bagnol Stefanie Bruinsma



Significant hazards	Flooding
Administrative Controls	<ul style="list-style-type: none"> • Always keep the return pump on and the valve open • Shut down the supply pump after dyno testing is finished and shut the valve
Engineering Controls	Automatic return pump controlled by float
PPE Required	None
Relevant MSDS	Liquid Algaecide
Accident procedures	None
Emergency shutdown procedures	<ul style="list-style-type: none"> • Provide direction for what to do to leave the equipment in a safe state in case the equipment must be abandoned quickly. • Consider: fire alarms, medical emergencies, building evacuations. • If the machine can be left safely without risk to anyone, state this.

Equipment Diagram



Operation information

Pre-start Checklist

- Make sure that the return hose is filled with water
- Make sure that the plumbing is properly connected and there are no leaks
- Make sure that the water tank is full and there are no leaks
- Make sure that the return pump is on

Start-up Procedures

- Open the supply valve
- Turn the supply pump on

Operating Procedure

The water will circulate and the dyno reservoir will drain automatically.

Shutdown Procedure

- Turn the supply pump off
- Close the supply valve

Maintenance and Repair

- Add 190mL of liquid algaecide to the 1000gal tank every 6 months
- Check for leaks regularly

Lockout

- Close the supply valve at the bottom of the 1000gal tank
- Close the supply and return valves at the pumps
- Turn the supply and return pumps off

