



FLO DYNAMICS TTCF-9B Variable High Flow Heated Hydraulic Component Flusher Instruction Manual

[Home](#) » [FLO-DYNAMICS](#) » FLO DYNAMICS TTCF-9B Variable High Flow Heated Hydraulic Component Flusher Instruction Manual 

Contents

- [1 FLO DYNAMICS TTCF-9B Variable High Flow Heated Hydraulic Component Flusher](#)
- [2 SAFETY RECOMMENDATIONS](#)
- [3 FLUSH PROCEDURE](#)
- [4 Documents / Resources](#)
- [5 Related Posts](#)



FLO DYNAMICS TTCF-9B Variable High Flow Heated Hydraulic Component Flusher



SAFETY RECOMMENDATIONS

- This machine uses hot hydraulic fluid under pressure. Check the security of all hoses and connections before operation.
- Only use the same hydraulic fluid as used in the hydraulic system being flushed. DO NOT use mineral spirits, solvents, or any other volatile liquid.
- Always wear safety glasses, protective gloves, and proper clothing when operating the flusher.
- If hydraulic fluid gets in your eyes or on your skin, rinse with water immediately and seek medical attention if needed.
- **WARNING:** Improper use of this machine can result in burns and other serious injuries. Always wear eye protection and protective clothing and follow instructions to prevent potential injury.

FLUSH PROCEDURE

- Fill the tank with 10 gallons of hydraulic fluid or until fluid level is halfway in sight glass.
- **WARNING:** DO NOT OVERFILL or run with fluid level higher than halfway in sight glass.
- **CAUTION:** To prevent hydraulic fluid from overflowing during a flush cycle or when air purging, do not run with fluid higher than showing over halfway on the sight glass.
- Plug the machine into a 20A grounded circuit without anything else plugged in or being used on the circuit. If a dedicated 20A circuit is not available, use two separate and dedicated 15A outlets.



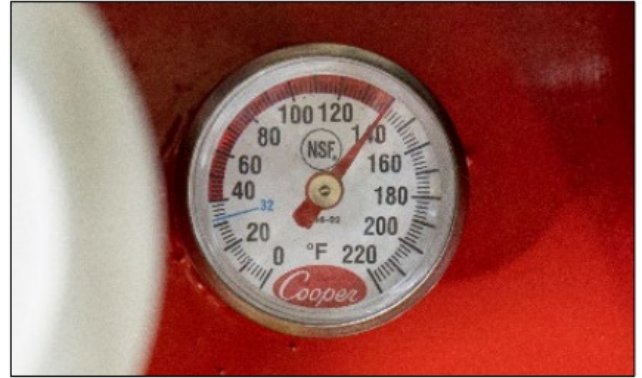
- Connect the flusher to 100-125 PSI shop air.
- Move the reverser valve to the bypass (middle) position.
- CAUTION: Make sure the reverser valve is in the neutral/bypass position prior to preheating.
- PRIOR TO STARTING PREHEAT

- Secure fill cap
- Secure filter screen
- Check fluid level
- Check all connections
- Ensure the reverser valve is in the bypass (middle) position

Turn the Heater and Pump ON to begin heating the flusher while connecting the services hoses to the component or system being flushed.



- Connect the red banded service hose to the component or cooler Outlet line and the black service hose to the Inlet line of component or cooling system.
- Once the unit reaches 135-140 degrees perform component or cooling system Initial Purge using the following steps:

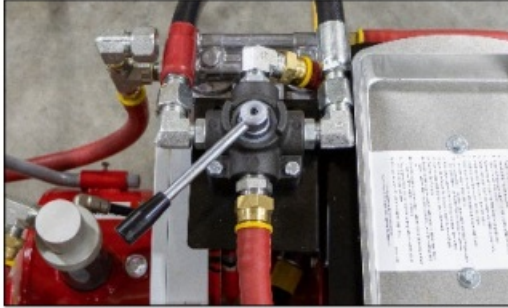


- NOTE: To extend life of the flush tank fluid, it's always good to purge existing dirty fluid from component or cooling system prior to flushing. Follow initial purge procedure below.
- INITIAL PURGE PRIOR TO FLUSHING
 - Turn the motor/pump OFF.
 - Remove the top half of the filter housing and place into a waste bucket/container.
 - Move the reverser valve toward the red banded hose.

CAUTION: When purging, the fluid will be HOT with a high flow rate! Wear protective gloves, clothing and safety glasses and ensure top half of filter housing is held into waste container being used.

 - Turn the pump ON and purge approximately 1-2 quarts of fluid or until cleaner fluid is observed.
 - Turn motor/pump OFF.

Clean the screen filter if needed and reassemble the filter housing.



SETTING UP A FLUSH

With component or cooling system connected and initially flushed move the reverser valve toward the red banded hose connected to the component or cooler system outlet.

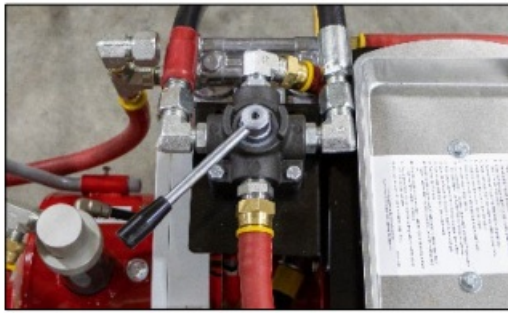
Select Air Agitation flush pattern by pressing the Air Agitate button.

- Red – Off, no air agitation
- Green – Low, single air pulse for low flow system
- Blue – High, two air pulses for high flow systems

NOTE: Air pulsing does not start until 1:30 minutes into flushing

- Prior to starting flush:
 - Secure fill cap
 - Secure filter screen
 - Check fluid level
 - Check all connections

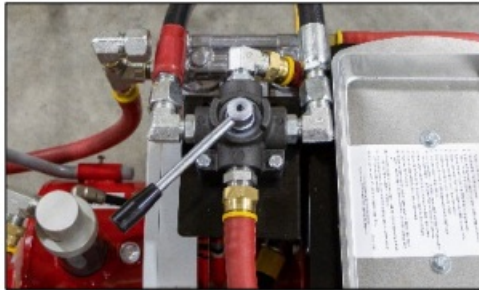
Turn motor/pump and heater ON to begin flushing. Suggested to flush initially for 15 minutes.



- When Initial 15 Minute Flush is Completed
- Turn the pump OFF.
- Press the manual air purge button to clear out the lines.
- NOTE: Prior to removing the top portion of the screen filter housing, always use the manual air purge button to clear out the component or cooler system and service hoses.
- Remove the top half of the filter housing, note any debris on the filter screen, clean the screen, and reassemble the filter housing.
- Continue flushing, switching the flow direction between each flush using the reverser valve until there is no debris on the filter screen after flushing.
- Depending on debris collected on filter screen after a flush it is suggested each flush be 30-60 minutes until cleanliness is achieved.



- After system cleanliness is achieved and to disconnect flusher from system cleaned perform the following:
- Use the manual air purge button to clean out the cooling system and service lines with the reverser valve in either flow direction, then place in bypass (middle) position.
- Remove the service hoses from the system being cleaned and install service line plugs.
- Clean the filter screen and reassemble for the next cleaning.
- Unplug the flusher and disconnect shop air.



ADDITIONAL FUNCTIONS

FILL THE TANK

- Remove the fill cap and add enough hydraulic fluid to bring the level to the middle of the sight glass.
- CAUTION: To prevent hydraulic fluid from overflowing during a flush cycle or when air purging, do not run with fluid higher than showing over halfway on the sight glass.
- Replace the fill cap when full level is reached.



DRAIN THE TANK USING THE MOTOR / PUMP

- CAUTION: To prevent burns, only drain the system when fluid is below 100 degrees.
- Ensure the heater is OFF.
- Connect the drain hose adapter to the red banded service hose and place into a suitable waste container.
- Move the reverser valve toward the red banded hose.
- CAUTION: Fluid will drain at a high flow rate.
- Turn the motor/pump ON and drain into waste container until the unit stops flowing.
- Turn the motor/pump OFF.
- NOTE: After draining, there is still approximately one gallon remaining in the tank. To completely drain, see “Completely Drain the Tank for Fluid Type Change” procedure below.




COMPLETELY DRAIN THE TANK FOR FLUID TYPE CHANGE

- Perform “Drain the Tank Using Motor/Pump” procedure above.
- Remove pump inlet hose pictured.
- Place hose in a suitable waste container to gravity drain remaining fluid in tank.
- Replace inlet hose after draining.



Documents / Resources



FLO DYNAMICS TTCF-9B Variable High Flow Heated Hydraulic Component Flusher [pdf] I
nstruction Manual
TTCF-9B Variable High Flow Heated Hydraulic Component Flusher, TTCF-9B, Variable High Fl
ow Heated Hydraulic Component Flusher, Heated Hydraulic Component Flusher, Component Fl
usher, Flusher, Hydraulic Flusher