

PRESSURE BOOSTER SYSTEM START UP CHECKLIST



SALES REP:		JOB NAME:		JOB LOCATION:	
SYSTEM MODEL #:				SALES ORDER #:	
STARTUP DATE:		STARTED BY:		PUMP QTY:	
TOTAL DISCHARGE PRESSURE _____ PSI		SUCTION PRESSURE _____ PSI		BOOST PRESSURE _____ PSI	TOTAL FLOW _____ GPM
HP _____	PHASE _____	Hz _____	VOLTS _____	AMPS _____	
PRE-STARTUP CHECKS					
	- 1 -	PIPING IS PROPERLY SUPPORTED AND SUCTION AND DISCHARGE CONNECTIONS ARE MADE			
	- 2 -	INSPECT COMPONENTS, PUMPS AND PIPING FOR VISIBLE DAMAGE			
	- 3 -	OPEN PANEL DOOR/DISCONNECT. CAUTION: POWER MAY BE PRESENT AT TOP OF DISCONNECT			
	- 4 -	NO VISIBLY LOOSE WIRES/COMPONENTS IN CONTROL PANEL. SOME WIRING CONNECTIONS MAY LOOSEN DURING SHIPMENT AND REQUIRE TIGHTENING WITH A SCREWDRIVER. MAKE SURE CONTROL PANEL POWER IS DISCONNECTED			
	- 5 -	VERIFY CONTROL POWER BREAKER ON ("UP")			
	- 6 -	SET THERMOSTAT TO HIGHER THAN AMBIENT, BUT NO HIGHER THAN 90F			
	- 7 -	VERIFY INCOMING VOLTAGE MATCHES VOLTAGE ON NAMEPLATE OF CONTROL PANEL. CLOSE DOOR.			
	- 8 -	VERIFY SENSOR, GAGE AND PUMP ISOLATION VALVES OPEN			
	- 9 -	IF PRESSURE TANK INSTALLED, VERIFY TANK IS CHARGED TO CORRECT PRESSURE (TYPICALLY 3-5 PSI BELOW CUT-IN PRESSURE)			
	- 10 -	VERIFY SUCTION PRESSURE MEETS OR EXCEEDS SPECIFICATION			
	- 11 -	BLEED AIR FROM PUMPS (PLUG AT TOP OF MOTOR, PLUG IS METRIC SIZED). DO NOT OVERTIGHTEN PLUG.			
	- 12 -	CHECK FOR LEAK			

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OPERATIONAL CHECKS

- 13 -	TURN ON PANEL. VERIFY DISPLAY TURNS ON. VERIFY ALL PUMPS ARE IN OFF.
- 14 -	VERIFY NO ALARMS ON TOUCH SCREEN
- 15 -	PRESS OPERATOR SETTINGS (PASSWORD 1111). SET DISCHARGE PRESSURE SETPOINT. RETURN TO MAIN SCREEN
- 16 -	PRESS ADVANCED SETTINGS (PASSWORD 2222). PRESS ALARM SETTINGS. SET MAX PRESSURE SETPOINT (15-20 PSI ABOVE DISCHARGE SETPOINT). SET MIN DISCHARGE SETPOINT (20 PSI BELOW DISCHARGE SETPOINT). SET LOW SUCTION SETPOINT (10 PSI)
- 17 -	CHECK ROTATION BY PLACING PUMP IN AUTO FOR A SECOND OR TWO, AND THEN TURNING PUMP OFF. *NOTE: HELIX V AND SCOT 320 SERIES PUMPS RUN CLOCKWISE ROTATION WHEN VIEWED FROM MOTOR END. *NOTE: MVI PUMPS RUN COUNTER-CLOCKWISE ROTATION WHEN VIEWED FROM MOTOR END. *NOTE: ECM-DRIVEN PUMPS WILL AUTOMATICALLY RUN IN THE CORRECT DIRECTION.
- 18 -	PRESS OPERATOR SETTINGS (PASSWORD 1111). HAND CONTROL. SET PUMP SPEED TO 40 HZ. TOUCH BUTTON THAT SAYS AUTOMATIC CONTROL TO PLACE IN HAND MODE. PRESS ON FOR ALL PUMPS.
- 19 -	RETURN TO MAIN SCREEN. PLACE PUMP 1 IN AUTO.
- 20 -	VERIFY SYSTEM INCREASES PRESSURE. IF PRESSURE RAISES ABOVE SET POINT, RETURN TO HAND MODE SCREEN AND LOWER SPEED.
- 21 -	CHECK PRESSURE INDICATED ON SCREEN AGAINST ANALOG GAUGES.
- 22 -	RUN PUMP FOR 5 MINUTES AND CHECK FOR LEAKS/ABNORMAL NOISE
- 23 -	WHILE PUMP IS RUNNING, GO TO SYSTEM INFORMATION PAGE. PRESS ADDITIONAL INFO. VERIFY AMPS ON SCREEN IS CONSISTENT WITH MOTOR NAMEPLATE AMPS. (NOTE: AMPS WILL BE LOWER THAN NAMEPLATE DUE TO RUNNING AT REDUCED SPEED)
- 24 -	TURN OFF PUMP 1. TURN ON PUMP 2 AND REPEAT 5 MINUTE RUN. REPEAT FOR ANY ADDITIONAL PUMPS.
- 25 -	TURN ALL PUMPS OFF. RETURN TO THE HAND CONTROL SCREEN AND RETURN CONTROL TO AUTOMATIC.
- 27 -	ON THE MAIN SCREEN, PLACE ALL PUMPS IN AUTO. VERIFY AT LEAST ONE PUMP TURNS ON AND MAINTAINS PRESSURE SETPOINT. MULTIPLE PUMPS MAY TURN ON TO MEET DEMAND.

STARTUP IS NOW COMPLETE