

Title of Training	Air Compressor Safety Training	
Equipment Info.	Make/Type/Size/Model	EMGLO (GAS/ELECTRIC Air Compressor
Material Needed	Operators Manual	
	Open area to set up Starting & Shutdown Process	

A 5.0 HORSE HONDA ENGINE POWERS THE EMGLO AIR COMPRESSOR. THE ENGINE USES UNLEADED GASOLINE, PRIOR TO STARTING ALWAYS CHECK THE ENGINE OIL LEVEL AND OPERATE IN A REASONABLY LEVEL POSITION FOR PROPER LUBRICATION.

## OPERATION

PILOT VALVES ARE USED ON A GAS ENGINE OR ELECTRIC MOTOR DRIVEN COMPRESSORS, WHERE THE COMPRESSOR IS TO MAINTAIN A CONSTANT PRESSURE RANGE WHILE RUNNING CONTINUOUSLY. THE PILOT VALVE MAYBE USED TO OPERATE A DISCHARGE LINE UNLOADER OR AN UNLOADING DEVICE IN THE COMPRESSOR HEAD. UNLOADING OCCURS WHEN THE RECEIVER REACHES A PRESET CUTOUT PRESSURE. THE PILOT VALVE OPENS, ACTUATING THE UNLOADING DEVICE AND ALLOW THE COMPRESSOR TO RUN IN AN UNLOADED MODE. WHEN THE RECEIVER PRESSURE DROPS TO THE PRESET CUT-IN PRESSURE, THE PILOT VALVE CLOSES ALLOWING THE UNLOADING DEVICE TO CLOSE AND THE COMPRESSOR ONCE AGAIN PUMPS TO THE RECEIVER.

MANUAL LOCK OR KNOB ALLOWS YOU TO MANUALLY UNLOAD THE COMPRESSOR (FOR STARTING OR WARM-UP) WITH AIR PRESSURE IN THE TANK. TO UNLOAD, TURN MANUAL KNOB CLOCKWISE OR FLIP LEVER TO IN-LINE POSITION. BE SURE TO RETURN LEVER TO “LOADED “POSITION AFTER STARTING ENGINE OR THE PUMP WILL NOT OPERATE AT PRESET PRESSURES.



EMGLO GAS ENGINE UNITS ARE MANUFACTURED WITH AN AUTOMATIC THROTTLE IDLE CONTROL DEVICE WHICH REDUCES ENGINE SPEED WHEN THE COMPRESSOR IS UNLOADED AND RETURNS THE ENGINE TO FULL SPEED WHEN PUMP IS LOADED. IF THE ENGINE STALLS WHEN THE LOAD COMES BACK ON, INCREASE IDLE SPEED.

KEEP BELT TENSION ADJUSTED. ENGINE UNITS CAUSE ABOVE AVERAGE BELT STRETCH. THE BELT SHOULD BE TIGHT, BUT NOT DRUM TIGHT.

GAS ENGINE STARTING PROCEDURE: MOST ENGINES CAN BE STARTED WITH AIR PRESSURE IN THE AIR RECEIVER, IF THE PILOT VALVE IS SET TO THE UNLOADED POSITION. AFTER STARTING, THE ENGINE SHOULD BE AT IDLE SPEED AND SHOULD BE RUN UNTIL WARM BEFORE PLACING THE PILOT VALVE IN THE OPERATING POSITION.

Trainee Name (print)		Signature of Trainee	
Instructor Name		Date of Training	
Scan To:	Safety/Training/Equipment/EMGLO Air Compressor/YYYY-MM-DD		
Revision # 002-15			Page 1 of 3

Title of Training	Air Compressor Safety Training		
Equipment Info.	Make/Type/Size/Model	EMGLO (GAS/ELECTRIC Air Compressor	
Material Needed	Operators Manual		
	Open area to set up Starting & Shutdown Process		

SOME ENGINES MAY NOT START WITH PRESSURE IN THE TANK. THEREFORE YOU MUST EXHAUST AIR FROM THE AIR RECEIVER, BY OPENING DRAIN VALVE, AND PLACE THE PILOT VALVE IN THE OPERATING "LOADED" POSITION. CLOSE DRAIN VALVE. AFTER STARTING, THE ENGINE WILL BE AT OPERATING SPEED AND THE COMPRESSOR WILL BEGIN FILLING THE AIR RECEIVER.

ELECTRIC MODELS: BE CAREFUL OF THE VOLTAGE SUPPLY. SHOULD YOU EXPERIENCE ANY TROUBLE IN STARTING, CHECK IF THERE IS ADEQUATE SUPPLY AVAILABLE AT THE MOTOR. A LONG EXTENSION CORD TO THE MOTOR CAN CAUSE SERIOUS VOLTAGE DROP. USE A LONGER AIR HOSE IF REQUIRED, IN PLACE OF AN EXTENSION CORD. THE ELECTRIC MODEL MOTOR HAS AUTOMATIC THERMAL OVERLOAD PROTECTION. MOTOR WILL STOP, THEN COME BACK ON WHEN COOLED OFF. LOOK FOR THE SOURCE OF TROUBLE, PARTICULARLY LOW VOLTAGE. REMEMBER WHEN YOU ARE FINISHED TO ALWAYS BLEED WATER OFF THE RECEIVER TANK BY OPENING THE DRAIN VALVE.

**Important Notice**

*This Safety Training Topic (STT) does not necessarily cover all possible hazards associated with this equipment and should be used in conjunction with equipment manual. It is designed as a guide to be used to compliment training in the field at Brieser Construction and as a reminder to users prior to equipment use.*

Trainee Name (print)		Signature of Trainee	
Instructor Name		Date of Training	
Scan To:	Safety/Training/Equipment/EMGLO Air Compressor/YYYY-MM-DD		
Revision # 002-15			Page 2 of 3

Title of Training	Air Compressor Safety Training		
Equipment Info.	Make/Type/Size/Model	EMGLO (GAS/ELECTRIC Air Compressor	
Material Needed	Operators Manual		
	Open area to set up Starting & Shutdown Process		

<b>EMPLOYEE NAME (Print or Type)</b>	<b>EMPLOYEE SIGNATURE</b>	<b>TRADE</b>	<b>JOB TITLE</b>
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			

Trainee Name (print)		Signature of Trainee	
Instructor Name		Date of Training	
Scan To:	Safety/Training/Equipment/EMGLO Air Compressor/YYYY-MM-DD		
Revision # 002-15			Page 3 of 3