

**SERVICE BULLETIN  
1202506**

**TITLE: CAFS Oil Separator Pressure Maintaining Adjustment**

**DATE: June 10th, 1998**

**AFFECTED PUMPS: Compressor equipped pump assemblies built prior to June 1998**

Darley Compressed Air Foam System (CAFS) units utilizing a Bauer rotary screw compressor include an Air/Oil separator unit. Incorporated within this assembly is a pressure maintaining valve.

The pressure-maintaining valve with built-in check valve is mounted on the bottom of the air/oil separator base. Its functions are:

1. Pressure maintaining valve

If there is no backpressure, the valve prevents a pressure drop below the minimum pressure of 64 psi (4.5 bar). This pressure is necessary to safeguard the oil supply of the compressor. At the same time, it is a precondition for good air/oil separation.

2. Check valve

This valve prevents the back flow of compressed air from the system or from the pressure tank into the screw compressor. Therefore, the separator tank can be totally discharged when the unit stops.

To assure proper compressor operation, the pressure maintaining valve calibration should be checked during your next scheduled maintenance period. Please refer to the following instructions for proper calibration procedure.

Attach a 0-300 psi gauge to the 1/8 BSPP tap on the separator head body.

1/8 BSPP thread. Remove plug.  
Attach 0-300 psi gauge for calibration.



Pressure maintaining  
valve adjustment screw.

4mm hex wrench and  
13mm open-end wrench  
required.

Loosen the adjustment screw locknut (13mm hex) on the bottom of the oil separator head. Engage CAFS and operate at idle. Be sure to circulate water through pump for compressor cooling. Open air discharge valves completely. While observing the calibration gauge, adjust the pressure maintaining screw (4mm hex key) until tank pressure reads 64 to 70 psi. Turn the adjusting screw clockwise to increase pressure or counterclockwise to reduce pressure. Retighten locknut firmly. Remove gauge and replace plug.

Please direct any questions regarding this bulletin to our Engineering office at 800-634-7812 or 715-726-2650.

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