Installation Instructions for Model A-7 Oil Pressure-Reducing Valve

The A-7 Oil Differential valve is a constant outlet pressure regulator used in high-pressure oil systems to reduce oil pressure to the oil level controls. On split-suction group systems, one (1) A-7 is needed for each group.

1. The A-7 is installed in the oil line between the oil separator and oil level control. Some sort of access will be needed between the A-7 and oil level control for adjusting the pressure.
2. In addition, an isolating valve should be installed for future filter replacement.
3. An A-7 is required for each compressor suction group if the system has a split suction header, thus maintaining two or more suction temperatures.
4. A satellite compressor may have a much lower suction pressure than the other multiplexed compressors and may need its own A-7 valve.
5. Multi-stage compressors may have a higher crankcase pressure than suction pressure.
6. It is important to be aware of the maximum crankcase pressure. Set the A-7 Pressure-Reducing Valve to 5-20 PSI above the maximum compressor crankcase pressures. Note: the greater the pressure, the higher the oil level will be in the compressor.
7. Be aware some system transitions may raise suction pressure above the normal running pressure, such as after defrost cycles.
8. To adjust pressure, turn the A-7 adjustment in (clockwise) to increase pressure. Turn out (counter-clockwise) to decrease pressure. Approximately 7 PSI per turn. Factory set at 40 PSI ± 2.

For translations of these instructions, go to our website: click here or scan the QR code.

Questions? Call 1-800-552-9300 or 630.293.5910 or email us at temprite@temprite.com