

Maintenance Assistance Kit for RIX Industries Model SA-6E

Compressor condition can be evaluated more quickly and accurately with the installation of a 2nd stage pressure gauge. Variation of the interstage pressure indicates a problem condition such as worn piston rings, sticky valves, or air leaks. The following items are recommended for the installation of a pressure gauge on the 2nd stage:

<u>RIX P/N</u>	<u>ITEM</u>	<u>MATERIAL</u>
54-1/4FFSS	Nipple	Stainless
54P-1/4MMOB	Tee	Brass
715-140	Hand Valve (Snubber)	Sherwood, soft seat
60-401-2	Gauge, 0-1000 psig	Brass with plastic case

Remove the 2nd stage relief valve and install the nipple and tee with the center leg of the tee pointing in a horizontal direction. Install the hand valve and gauge at the top of the tee. Use the hand valve to stop the pulsations from affecting the gauge needle. Install the relief valve onto the other (horizontal) port of the tee. **(NOTE: due to compressor vibration it is a good idea to keep the gauge off unit and install only when pressure check is required.)** Normal 2nd stage pressures are as follows:

FINAL PRESSURE	2nd STAGE @ SEA LEVEL	2ND STAGE @ 5000 FT. ELEVATION
2000 psig	425-475 psig	390-440 psig
2500 psig	450-500 psig	420-470 psig
3000 psig	475-525 psig	450-500 psig
3500 psig	500-550 psig	480-530 psig

Low pressure will be caused by one or more of the following:

- Worn 1st or 2nd stage rings
- Leaking 1st stage valves
- Leaks in piping, O-rings or 1st stage head gasket
- High 1st stage piston clearance
- Restricted inlet hose or filter

High pressure will be caused by one or more of the following:

- Leaking 3rd stage valves
- Worn 3rd stage rings

NOTE: Running compressor for long periods with a low interstage pressure may cause overheating of the 3rd stage, resulting in reduced ring life and possible O-ring failure

SEE ALSO TROUBLESHOOTING SECTION OF MANUAL

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