



PRESSURE REDUCING VALVES

INSTRUCTIONS FOR AIR LOADERS CLASSES A, AG AND TYPES P AND PL

INSTALLATION

Install air loader in a convenient location. Use 5/16" Corrosion Resistant tubing or 1/4" brass pipe from air Loader outlet to equipment being loaded. Use Corrosion Resistant or brass valves and fittings throughout. Protect air loader with 1/4" strainer.

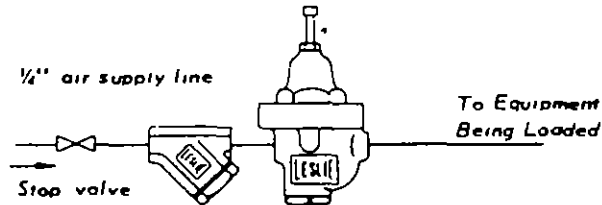


Fig 1 - Installation of Air Loader

OPERATION

Adjusting Loading Pressure

1. Open air supply line stop valve
2. Set loader to provide proper loading pressure as follows:
Turn adjusting screw into spring case to compress adjusting spring to start air flow. Increase compression on adjusting spring until correct loading pressure is obtained. To increase loading pressure turn adjusting screw into spring case, To lower loading pressure turn adjusting screw out of the spring case.
3. When correct loading pressure is obtained tighten locknut on adjusting screw.

MAINTENANCE

Class A or AG Loaders

1. Turn off air supply
2. Remove compression from adjusting spring by turning adjusting screw outward
3. Loosen spring case and unscrew from main body. Lift off top spring seat adjusting spring
4. Remove bottom cap, gasket and main valve spring
5. Take out diaphragm washer, nozzle diaphragm assembly and yoke-main valve assembly. To remove this assembly press main valve toward outlet side of main body

and upward. Assembly may then be lifted easily out of main body

Cleaning and Replacing Parts

6. Clean all parts with kerosene or other suitable solvent
7. To change valve disc remove main valve from yoke and replace disc. Reassemble. Tighten valve to yoke
8. Replace any worn or damaged part

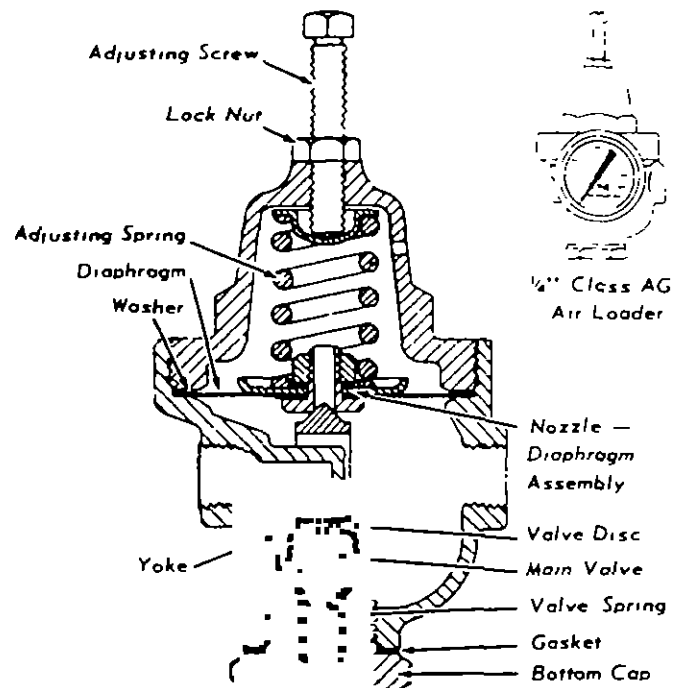


Fig. 2 - Class A Loader

Reassembling

9. Replace yoke-main valve assembly in main body. Position yoke so that it does not touch walls of supply nozzle. Assemble gasket and valve spring to bottom cap. Screw bottom cap into main body making sure valve stem enters bore
10. Position nozzle diaphragm assembly in main body with nozzle toward yoke. Insert diaphragm washer
11. Replace adjusting spring, top spring seat, spring case and adjusting screw. Tighten spring case and bottom cap
12. Reset for loading pressure as shown under "Operation"

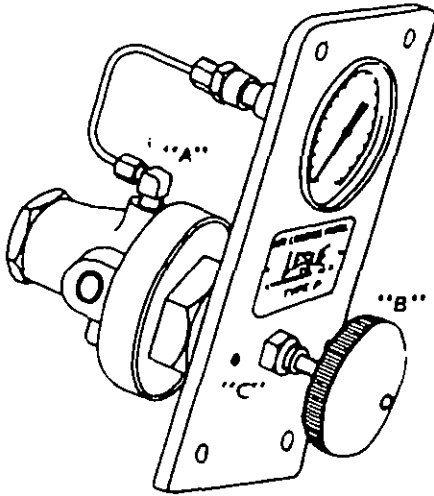
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instructions for

PRESSURE REDUCING VALVES



Maintenance P and PL Air Loaders. See Fig. 3.

Disconnect tubing at "A" Remove handwheel "B".
Take off locknut "C" and remove valve from panel. Follow maintenance — for A loader.

Fig 3 - Type P or PL Air Loader

OPERATION OF GP TYPE CONTROL VALVES IN CONJUNCTION WITH AIR LOADERS

IMPORTANT DO NOT APPLY AIR LOADING FORCE TO DIAPHRAGM OF CONTROL VALVE UNTIL INLET STOP VALVE IS FULLY OPENED WITH FULL PRESSURE TO INLET OF THE CONTROL VALVE

Starting Up:

- 1 Open inlet stop valve
- 2 Close outlet stop valve
- 3 Dispose of condensation, dirt, etc by opening strainer blow-off valve
- 4 Crack outlet stop valve to permit slight flow when adjusting the control valve
- 5 Slowly supply loading pressure to control valve diaphragm until valve begins to open. Gradually increase loading pressure until desired downstream controlled pressure is obtained
- 6 Slowly open outlet stop valve
- 7 To increase controlled pressure increase loading pressure
To decrease controlled pressure decrease loading pressure

Shutting Down

To turn steam off relieve loading pressure from diaphragm of control valve and close inlet and outlet stop valves

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