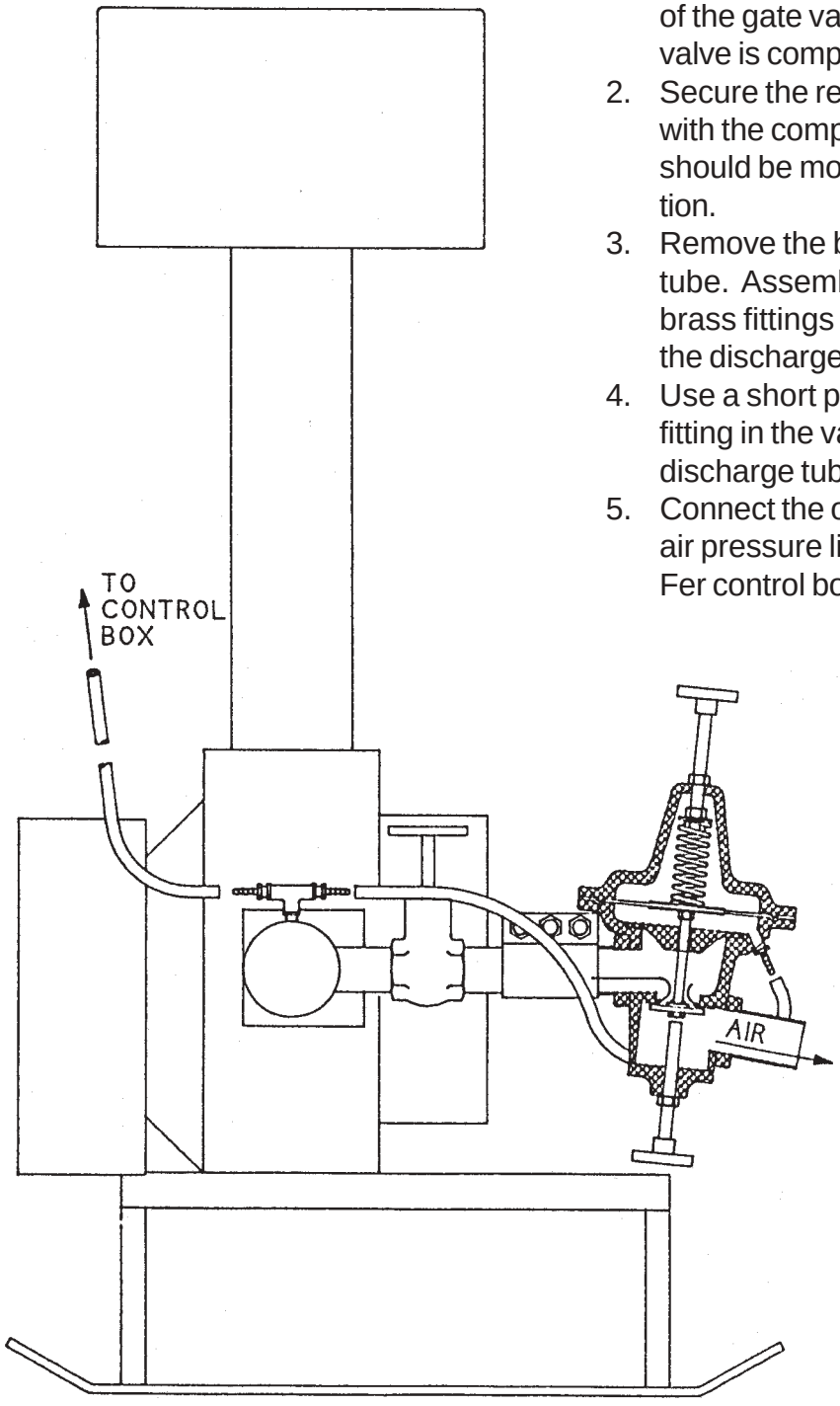
AIR TRANSFER REGULATOR VALVE INSTALLATION & OPERATION INSTRUCTIONS



INSTALLATION

1. Thread the 4” long pipe nipple into the outlet of the gate valve. Make sure that the gate valve is completely open.
2. Secure the regulator valve to the pipe nipple with the compression clamp. The valve should be mounted in a nearly vertical position.
3. Remove the brass fitting from the discharge tube. Assemble the pipe nipple and both brass fittings to the pipe tee and thread into the discharge tube.
4. Use a short piece of hose to connect the fitting in the valve with one of the fittings in the discharge tube.
5. Connect the other fitting in the valve with the air pressure limit switch located in the Trans-Fer control box.

PNEG-1185

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OPERATING INSTRUCTIONS

1. Loosen the locking nut on the top threaded rod and turn the handle counterclockwise (loosen it) until no spring pressure can be felt on the valve diaphragm.

2. Loosen the locking nut on the bottom threaded rod and turn the handle clockwise until it stops. The valve is now completely closed.

3. Loosen the bottom threaded rod 2 complete turns and lock in place with the locking nut. This sets the maximum amount that the valve can open.

4. Start the air system and manually set the feed rate at the expected medium rate of discharge from the dryer.

5. Turn the top adjusting rod clockwise (tighten) until air starts to be discharged from the valve.

6. Continue to slowly tighten the top rod and increase the volume of discharged air until the grain is being discharged at a low enough rate to prevent grain damage. Adjust the valve a small amount and then wait for the system to respond to that change before making further adjustments.

7. If the line pressure cycles between too high and too low, then the amount that the valve can open should be decreased. Loosen the locking nut on the bottom adjusting rod and tighten the rod in small increments until the oscillation stops.

8. Check the valve operation by setting the feed rate from the dryer to the lowest expected discharge rate.

9. As the line pressure decreases due to the lower feed rate, the valve will open and discharge more air to slow the velocity of the grain.

10. If surging occurs then more air is required. Turn the top adjusting rod counterclockwise (loosen) to decrease the amount of air being discharged.

11. If the grain velocity is too fast, then turn the top adjusting rod clockwise, (tighten) to increase the volume of discharged air and slow the grain velocity.

12. Secure the position of the top and bottom rods with the locking nuts after the valve has been adjusted.

13. Use the manual gate valve to clean a plugged system to avoid having to readjust the compensating valve.

801A199

801A199
AIR CONTROL REGULATOR VALVE (BOXED)
CONSISTS OF:

1.	80-023	AIR CONTROL REGULATOR VALVE WITH MANUAL (BREUNEMATIC)	1 REQ'D
2.	MS0740-0180	HOSE- AIR & WATER. BLACK 1/4" ID. 200 PSI (18" LONG)	1 REQ'D
3.	MS5317	COUPLER- COMPRESSION. 1.900 PIPE DIA. W/GASKET	1 REQ'D
4.	801N033	BAG- AIR CONTROL REG. VALVE	1 REQ'D
5.	NO #	14" X 18" CARDBOARD PACKING	2 REQ'D
6.	NO #	PACKING MATERIAL	? REQ'D
7.	602M011	BOX- SHIPPING 19" X 15" X 10-1/2"H	1 REQ'D
8.	MS0300	STRETCH WRAP. 12" (FOR OUTSIDE OF BOX)	6' REQ'D
9.	4FH0559	FIT- NIPPLE. PIPE 1-1/2 X 4. (STEEL)	1 REQ'D

G

801N033
AIR CONTROL REGULATOR VALVE BAG
CONSISTS OF:

1.	4FH0510	FIT- NIPPLE. PIPE 1/4 X CLOSE. (STEEL)	1 REQ'D
2.	4FH0581	FIT- TEE. PIPE 1/4 FPT. (BLACK)	1 REQ'D
3.	4FH0971	FIT- HOSE BARB 1/4 X 1/4 MPT. (BRASS)	1 REQ'D
4.	801A199-MANUA	MANUAL- AIR CONTROL REG. OPERATING INSTRUCTION SHEET	1 REQ'D
5.	105M0005	BAG- 5" X 7" X.004 PLASTIC	1 REQ'D

REF	EXPLANATION	ECO NO	BY	DATE
G	ADDED 4FH0559	801-1085	CDF	3-16-95

AIR CONTROL REGULATOR VALVE (BOXED)

AG. DIVISION OF
DMC
DAVID MFG CO
MASON CITY. IA

DR BY	DATE	
CDF	11-30-93	801A199