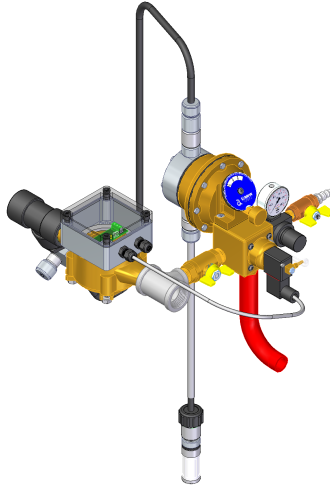


D Series Air and Water Kit

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Part# 02550



Unpacking

Please open and inspect your package upon receipt. Your package was packed with great care and all the necessary packing materials to arrive to you undamaged. If you do find an item that is broken or damaged, you must contact the delivering carrier to report the claim.

Getting Technical Assistance

H.E. Anderson Company is dedicated to assisting our customers with installation and use of our products. Our technical staff are available each weekday from 8:30am to 4:30pm central time. You may call us toll free at **1-800-331-9620** from anywhere in the U.S.A. and Canada. If no one is available, we will promptly return your call.

Before you call, we suggest that you review this manual. You may find the answer to your question here. But even if you do not, reviewing the manual will help us to help you.

If you need an additional owners manual for **any** H.E. Anderson Company product, please visit our website at <http://heanderson.com/manuals.php>

Safety Information

- Compressed air can be dangerous. Use caution when working with the system along with eye and ear protection and any other appropriate personal protection equipment.
- Do not exceed the pressure rating of any components in the system.
- Make sure never to open both valves on the air kit at the same time.
- Make sure the air and water pressure supplied to the pumper manifold does not exceed 125psi.
- Make sure the air pressure supplied to the air regulator does not exceed 300 psi.
- Release all pressure within the system before attempting to service any components.
- Check hoses for weak or worn condition before each use and make sure all connections are secure.
- Water, compressed air and environmental temperatures must stay within the range of 33°F to 140°F (1°C to 60°C).



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Specifications

Compressed Air Charts for D Series Units

Number of Pump Heads	Pump Head Size	CFM "Free Air" Required
DB100	P2-HC	2.5 CFM
DB1000	A3-VCP	2.0 CFM
DB1200	P1-BA	2.5 CFM
DD100	H4-HD	3.0 CFM
DD1000	A3-VCP	2.0 CFM
DD1200	P1-BA	2.5 CFM

Installation

1. Unpack contents and make sure all parts are present. Refer to the exploded view diagram.
2. Ensure the small 1/8" ports in the air regulator have been plugged. The gauge should ship installed in the air regulator. The kit should have 3 separate assemblies
 - a) 1/2" ball valve and 2 – 1/2" close nipples
 - b) 1/2" x 1/4" bushing, 1/4" close nipple, air regulator, gauge, 1/4" x 1-1/2" nipple, 1/4" ball valve and a compressed air fitting
 - c) 1/2" compressed air muffler
3. Remove the output cable from the manifold valve. The Phillips head screw holding the cable connector to the coil on the valve must be unscrewed.
4. Remove the pump head from the pilot valve by unscrewing the 2 phillips screws holding the head to the pilot valve.
5. Remove the 1/2" plug from pilot valve.
6. Remove the 1/2" x 3" brass nipple between the pilot valve and the galvanized tee.
7. Wrap Teflon tape or apply pipe sealant around the exposed end of the 1/2" x close pipe nipple on each side of the 1/2" ball valve.
8. Use this assembly to connect the pilot valve to the galvanized tee. The ball valve allows water pressure to be shut off from the pilot valve so compressed air can be used to power the pump.
9. Wrap Teflon tape or apply pipe sealant to the bushing on the assembly containing the air regulator.
10. Attach the assembly with the air regulator to the pilot valve by screwing the 1/2" x 1/4" bushing into the 1/2" NPT hole in the pilot valve.
11. Ensure both ball valves are in the "off" position, the handles should be perpendicular to the pipes in which they are installed.
12. If the pumpers will be run using air, remove the hosebarb from the "Out" port and install the supplied air muffler in the "Out" port on the valve. If the pumpers will be run using water, leave the hose barb and drain hose installed on the valve.



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Warning: The air muffler must be used when running the pumpers with compressed air. The drain hose must be used when running the pumpers with water. The appropriate fitting must be installed every time the pressure source is switched.

13. Make sure both valves on the air kit are closed and turn the knob on the air regulator counter clockwise to remove all the force on the regulating spring.
14. Reinstall the pump head onto the pilot valve.
15. Inspect the assembly for possible leaks before supplying compressed air to the injector.
16. Connect a compressed air line to the fitting and supply air to the injector. Be sure the pressure of the air supplied does not exceed 300psi.
17. Before using the manifold with air, open the "T" handle ball valve on the air side of the air kit. The gauge mounted on the manifold valve should read ~5psi if the regulator was adjusted as instructed. Adjust the regulator until the gauge on the manifold reads the same as the water pressure in the water line being injected into.

Note: When adjusting air pressure, always approach the desired air pressure from a lower pressure. When reducing the pressure from a higher to a lower setting, first reduce to some pressure less than that desired, then bring up to the desired pressure. The knob can be locked by pushing down on it and unlocked by pulling up.

18. When switching to water pressure, make sure the valve on the compressed air side of the kit is closed first before opening the valve on the water side of the air kit.

Troubleshooting

Possible causes and solutions.

Pumpers not injecting proper amount of chemical

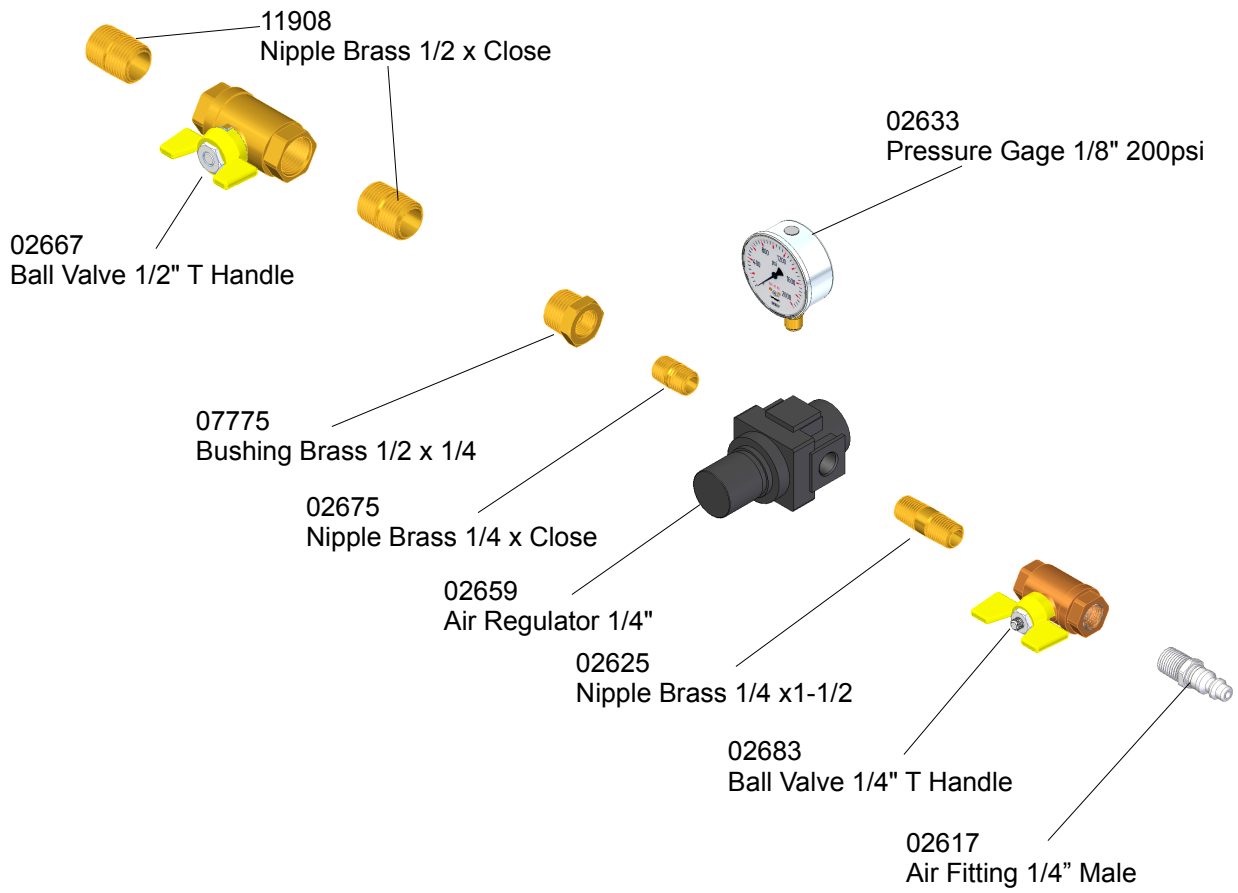
- Refer to pumphead and manifold manual.
- Check all valves and connections are working and in the proper position.
- Check for ice accumulating on muffler.
- Ensure air pressure or water pressure supplied to manifold is the same as the water pressure in the line being injected into. Be careful not to exceed 125psi as

Ice accumulating on the air muffler

- Compressed air system contains too much moisture. Consider installing a compressed air dryer.
- Upgrade to the heavy duty air muffler part# 02609.



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RATIO:FEEDER® LIMITED WARRANTY

WHAT IS COVERED

The H.E. Anderson Company of Muskogee, Oklahoma, will make any necessary repairs and/or replace any parts of any Ratio:Feeder® product made necessary because of defects in materials or workmanship for fifteen months from date of manufacture. Warranty repairs and/or replacements will be performed without charge to the owner by H.E. Anderson Company within a reasonable time after prepaid delivery of the defective product to the H.E. Anderson Company, 2100 Anderson Drive, Muskogee, Oklahoma 74403.

WHAT IS NOT COVERED

This warranty specifically excludes failure of any parts or materials caused by chemical attack or damage caused by operation above rated capacity or pressure. Further, this warranty does not cover wear or failure caused by sand or other foreign materials which may be found in water that is passed through our products, or damage caused by freezing or exposure to water temperatures above 60°C (140°F).

This warranty does not cover damage caused by failure to follow prescribed installation instructions and limitations issued by H.E. Anderson Company. In addition, this warranty does not cover service adjustments, repairs, or replacements caused by misuse, negligence, alteration, accident, or lack of specified maintenance. This warranty does not cover damage to electronics from water, voltage spikes, or lightning strikes.

This warranty does not cover components used by, but not manufactured by H.E. Anderson Company, in the manufacture of our products except to the extent of said component manufacturer's warranty.

This warranty specifically excludes liability for consequential damages or for charges for labor or expense in making repairs or adjustments, or losses of time or inconvenience.

This warranty gives you specific legal rights and you may also have other legal rights which may vary from state to state. H.E. Anderson Company does not authorize any person to create for it any other obligation or liability in connection with these products. ANY IMPLIED WARRANTY APPLICABLE TO THESE PRODUCTS IS LIMITED TO THE DURATION OF THIS WARRANTY. H.E. Anderson Company shall not be liable for consequential damages resulting from breach of this written warranty.

NOTE: Some states do not allow limitation on how long an implied warranty will last or the exclusion of limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

WHAT TO DO IF THERE IS A QUESTION REGARDING WARRANTY

- 1) Promptly notify the consumer adviser at H.E. Anderson Company by telephone at 800-331-9620 or 918-687-4426.
- 2) Confirm the report in writing (or via FAX at 918-682-3342) to the H.E. Anderson Company, stating the circumstances surrounding the problem.

PURCHASER'S OBLIGATION

- 3) Purchaser must give H.E. Anderson Company immediate written notice on discovery of defect.
- 4) Purchaser must pay for shipment of the defective product to the H.E. Anderson Company, 2100 Anderson Drive, Muskogee, Oklahoma 74403.

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