

HIGH VOLUME AIR OPERATED DIAPHRAGM PUMPS OPERATING INSTRUCTIONS



Outline

Powered by compressed air on 1:1 ratio standard application is for transferring large amount of fluids from one point to another or for pre-filling of large volume test vessels.

Typical output at 90psi air feed: 40 gallons approx per minute = 1" transfer pump
110 gallons approx per minute = 2" transfer pump
220 gallons approx per minute = 3" transfer pump

Operating Instructions

1. Ensure pump supplied is suitable for application required.
2. Connect **clean, dry** air supply to air inlet.
3. Connect suitable fluid hoses to inlets / outlets.
4. Metnor recommends use of hose restraints and R-clips where possible.
5. Switch air valve to the open position.
6. Turn air regulator slowly clockwise to introduce pressure to the pump.
7. Continue to turn regulator until desired pressure & flow rate is achieved.
8. Once transfer is complete close off air valve, turn anti-clockwise air regulator, disconnect fluid hoses and air supply.

Note: Where possible, Metnor recommends re-connecting fluid hoses to a clean water supply and flushing pump through for safety purposes when handling, shipping and on receipt back at Metnor base.

Troubleshooting

Pump will not start

- a) Check mains air supply.
- b) Check air valve is turned in "on" position.
- c) Check air pressure gauge is reading pressure.
- d) Check air inlet filter for debris.
- e) Check for obstruction in fluid line and remove.

Pump operates but little or no product flows

- a) Check fluid supply and remove obstruction.
- b) Check connections are fitted correct and no leaks
- c) Check fluid grade being transferred and slow pump speed down via the air regulator.

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Pump strokes but will not discharge

- a) Check fluid supply and remove obstruction.
- b) Check connections are fitted correct and no leaks.
- c) Shorten inlet suction line.

If above does not solve the problem or if fluid is being discharged from air exhaust this indicates diaphragm failure. **Do not dismantle pump** - please contact Metnor for further assistance

Telephone: 01493 441 480

E-mail: sales@metnorgreatyarmouth.co.uk