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GAST
A Unit of IDEX Corporation

MANUFACTURING INCORPORATED

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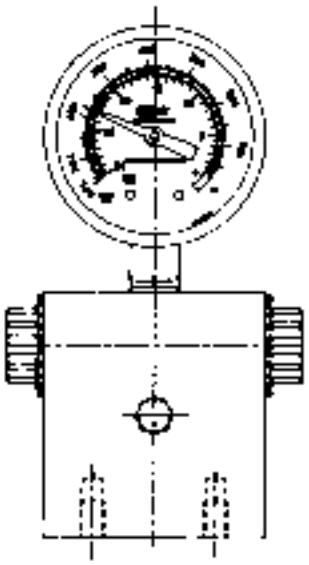
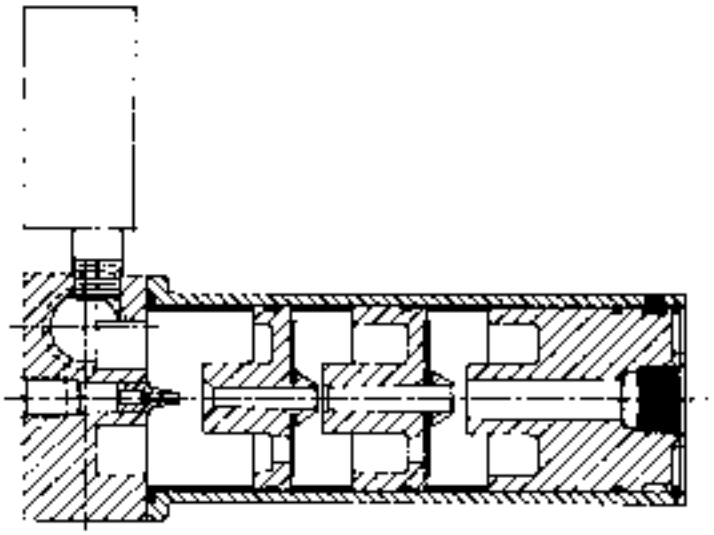
INSTALLATION and OPERATING INSTRUCTIONS for ALUMINUM MULTI-STAGED VACUUM GENERATORS





⚠ WARNING: Do not pump flammable or explosive gases or operate in an atmosphere containing them.

INSTALLATION and OPERATING INSTRUCTIONS for ALUMINUM MULTI-STAGED VACUUM GENERATORS

SAFETY

⚠This is the safety alert symbol. When you see this symbol, personal injury is possible. The following signal words show the degree of injury. Read the information carefully before proceeding.

⚠DANGER Severe personal injury or death will occur if hazard is ignored.

⚠WARNING Severe personal injury or death can occur if hazard is ignored.

⚠CAUTION Minor injury or property damage can occur if hazard is ignored.

GENERAL INFORMATION

Ambient temperature for normal operation should not exceed 300° F (149° C).

The low atmospheric pressure at high altitudes reduces performance of this unit.

Materials used in the construction of the vacuum generator include Anodized Aluminum and Viton. If the unit will see substances other than air, consult your local Gast representative for compatibility.

INSTALLATION

⚠CAUTION Supply pressure regulated air to inlet of vacuum generator. Excess pressure can cause parts to burst.

1. The Gast vacuum generator may be mounted in any position. Mounting holes are provided in the aluminum head. Shock mounting is not required.

2. Connect a supply of clean, dry, regulated air to the inlet port in the aluminum head. Regulator setting should be between 30 and 70 psig (2-5 bar). Best setting is 68 psig (4,6 bar). NO LUBRICATION should be used with the Gast vacuum generator.

3. The Gast vacuum generator has multiple inlet ports for connection to the system to be evacuated. Unused ports should be plugged. Connections to the system must be equal or larger than the port. Smaller piping will cause lower vacuum flows. Sealant should be used on all threads to prevent leakage. Be sure to keep excess sealant from being drawn into the vacuum generator. Dusty or dirty applications should have a filter installed to prevent material from being drawn into the generator. Gast filter AB665 is suggested.

⚠WARNING Restriction of the exhaust air can cause the vacuum port to become pressurized. Components not designed for full line pressure can burst causing injury or death.

4. The exhaust port is located in the round end opposite the inlet port. The muffler supplied should be attached to this port. DO NOT RESTRICT the outlet of this muffler. This would reduce both flow and maximum vacuum.

OPERATION

⚠WARNING Solid or liquid material exiting the muffler outlet can cause eye damage or skin cuts. Keep away from air stream.

To operate the vacuum generator, turn on the regulated air supply. Air flowing through the unit causes vacuum to develop at the intake ports. Material can enter the vacuum generator either in the compressed air stream or at the vacuum port, it will be ejected through the exhaust muffler.

Units with multiple stages contain valves which close as vacuum levels increase. This gives higher flows at low vacuums, reducing the amount of time required to evaluate a system.

Adjust the regulator to 68 psig (4, 5 bar) for best vacuum generation. Block off vacuum line to check for maximum vacuum. Lower than specified vacuum may be the result of system leaks. If this condition appears, check and seal leaks.

SERVICING

⚠CAUTION Shut off compressed air supply before servicing. Parts may burst if air is on when unit is disassembled.

Your Gast vacuum generator requires no scheduled maintenance. If performance drops, it may require cleaning. In most cases it is not necessary to remove the vacuum generator from the system.

1. Turn off or disconnect air supply.
2. Remove muffler. Remove (4) screws holding body to manifold.
3. Remove set screw and snap ring (optional) located on body near the exhaust port.
4. Slide venturi stages and spacers out of body. *Note the position of each spacer and venturi.*
5. Remove any solid material and wash all parts in MILD DETERGENT and WARM WATER to clean.
6. If new valves and o-rings are required, use Gast Repair Kit K550. Note not all parts included are required for each model.
7. Clean and lightly lubricate body interior to allow for easier installation of venturi stages.
8. Reassemble in reverse order. Replace snap ring and screws.

KEEP THIS INFORMATION WITH THE VACUUM GENERATOR. REFER TO IT FOR SAFE INSTALLATION, OPERATION OR SERVICE.

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