

HAR-508 Regulator

IMPORTANT: Read and follow all **Instructions** and **Safety Precautions** before installing, operating or maintaining this equipment. Keep this manual for future reference.



WARNING

**Risk of explosion or fire.
Improper use can cause personal injury**

- This product is designed and intended for use in industrial compressed air systems only. Do not use for liquids or gasses other than air.

- Do not use where pressure or temperature can exceed rated operating conditions (see specifications).

- Regulated outlet pressure must never be set higher than the maximum operating pressure of the downstream air tool or equipment. An outlet pressure gauge should always be used.

CAUTION

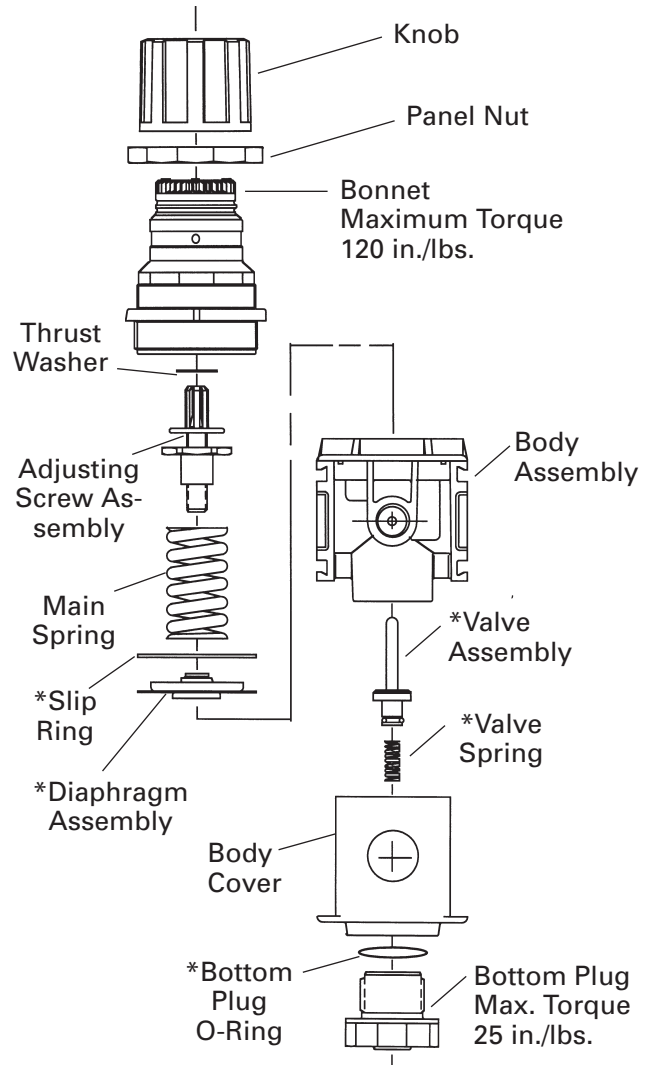
Certain compressor oils, cleaning agents and solvents may attack the plastic and rubber components used in the construction of this product. This product should not be used in conjunction with or in the vicinity of these materials. Read and follow material labels carefully. Please consult DeVilbiss if in doubt.

SPECIFICATIONS

Type	Diaphragm, Relieving
Inlet Size	1/2" NPT(F)
Outlet Size (unregulated)	1/2" NPT(F)
Regulated Ports (2)	1/4" NPT(F)
Maximum Inlet Pressure	300 PSIG
Maximum Temperature	175° F (79.4° C)

Flow Specifications Regulated Output

10 CFM @ 45 PSI with 100 PSI inlet
28 CFM @ 60 PSI with 100 PSI inlet



* KK-5045 Diaphragm Repair Kit

DESCRIPTION

This unit is designed to regulate and maintain a nearly constant outlet pressure through the front and rear 1/4" NPT ports while passing unregulated air through the 1/2" NPT ports. The front 1/4" port should be fitted with a gauge (such as a DeVilbiss GA-316, sold separately) to verify pressure at the rear 1/4" port.

INSTALLATION

1. Read all **Cautions** and **Warnings** before installing this unit.
2. Install as close to the point of use as possible. It is advisable to install a particulate filter on the inlet side of this product to extend the unit's service life and to minimize the frequency between necessary maintenance periods.
3. Units must be installed with the free flow in the direction of the flow arrow. The adjusting knob may be oriented in any position relative to the pipe.
4. Avoid using reducing bushings, couplings, etc., whenever possible when installing this product. These devices restrict air flow and can affect performance.

OPERATION

1. Before turning on system air pressure, turn adjustment knob full counterclockwise. This will close regulator to produce zero air pressure.
2. Turn on system air pressure.
3. To increase regulated pressure, pull adjusting knob up and turn clockwise. To reduce pressure, turn knob counterclockwise. To lock the knob, push the knob down.
4. To avoid minor readjustment after making a change in pressure setting, always approach the desired setting from a lower pressure. When reducing pressure, first reduce to some pressure less than that desired, then bring up to the desired point.

MAINTENANCE



Do not submerge regulator or components in solvent or use solvent to clean regulator parts. Damage may occur to regulator and components. Use a cloth dampened in warm, soapy water to clean exterior of regulator.

WARRANTY

This product is covered by DeVilbiss' 1 Year Limited Warranty.

DeVilbiss Sales and Service: www.devilbiss.com

DeVilbiss

DeVilbiss has authorized distributors throughout the world. For technical assistance or the distributor nearest you, see listing below.

U.S.A./Canada Customer Service Office:

195 Internationale Blvd., Glendale Heights, IL 60139
Toll-Free Telephone: 1-800-992-4657 (U.S.A. and Canada only)
Toll-Free Fax: 1-888-246-5732



Note

This unit may be serviced without removing the unit from the compressed air line.

1. Frequency of servicing depends largely on the condition of the compressed air system and the degree of contamination in the system.
2. Before attempting to service this product in-line, depressurize both the upstream and downstream sides of regulator.
3. Remove the bottom plug, valve spring and valve assembly. Inspect all seals and components for damage and replace as required. Clean seals and components with mild detergent and water. Use a clean, dry cloth to wipe any contamination from valve seal inside the body. Lubricate the valve stem and lower valve o-ring seal with a light coat of MAGNALUBE-G or similar lubricant. Reassemble. Bottom plug torque should not exceed 25 in./lbs (2.8 N-m).
4. To replace main spring or diaphragm, turn adjusting knob counterclockwise to remove all spring force, then remove bonnet. Remove the adjusting screw assembly, main spring, slip ring and diaphragm assembly. Inspect the diaphragm and the relief seat for damage and contamination. Replace diaphragm assembly if necessary. Clean the relief seat with a soft dry cloth. Reassemble in reverse order making sure the slip ring is properly positioned on top of the diaphragm. Bonnet torque should not exceed 120 in./lbs. (13.6 N-m).
5. Before returning unit to service, ensure that all seals have been properly reinstalled or replaced and components requiring torque values have been properly set.
6. If regulated pressure begins to creep (an uncontrolled rise in regulated pressure), it will most likely be caused by contamination on the valve seat.
7. If the unit leaks from the vent holes in the bonnet, it may be caused by contamination, deterioration or damage to the valve seat or diaphragm relief seat. Replace any damaged or worn components.

DeVilbiss Automotive Refinishing

DeVilbiss has authorized distributors throughout the world. For equipment, parts and service, check the Yellow Pages under "Automotive Body Shop Equipment and Supplies." For technical assistance, see listing below.

U.S.A./Canada Customer Service Office:

11360 S. Airfield Road, Swanton, OH 43558
Toll-Free Telephone: 1-800-445-3988 (U.S.A. and Canada only)
Toll-Free Fax: 1-800-445-6643