

## HARG-510 AIR REGULATOR AND GAUGE ASSEMBLY

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



**WARNING**

Improper use can cause bodily injury or equipment damage. Read the following:

- This air regulator and gauge assembly is intended only for use in general service air systems. Do not use for liquids or gases 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**

The accuracy of the indication of pressure gauges can change during shipment and normal use. If gauge accuracy is necessary for preventing risks of injury or property damage, the gauge should be checked before use and on a routine periodic basis. (See ANSI B40-1974 for gauge standards.)

### SPECIFICATIONS

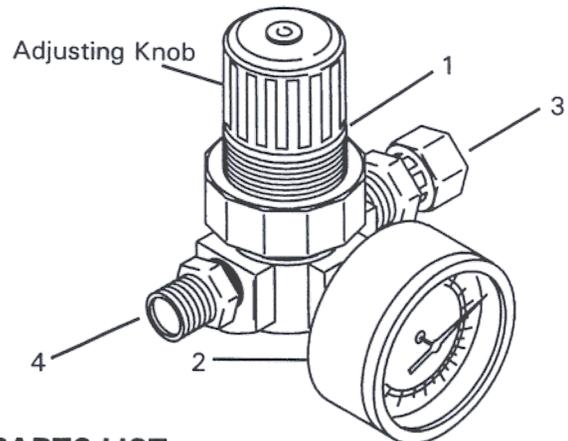
Type	Diaphragm, relieving
Inlet Size (Nipple)	1/4" NPS(M)
Outlet Size (Swivel Adapter)	1/4" NPS(F)
Gauge Port Size (two) in Regulator	1/8" NPT(F)
Gauge Range	0-160 PSIG
Rated Operating Conditions:	
Inlet Pressure	300 PSIG max.
Temperature	0° to 150° F with dewpoint less than air temp. below 35° F
*Outlet pressure adjustment range 5 to 100 PSIG.	

### \*Note

This range is not minimum or maximum outlet pressure limit for the regulator. The regulator can be adjusted to zero PSIG outlet pressure and to pressures higher than 100 PSIG. However, this regulator should not be used to control pressures outside this specified range.

### CONSTRUCTION MATERIALS

Bonnet and Valve Seat . . . . . Acetal  
 Diaphragm . . . . . Teflon/Buna-N/Teflon  
 Body . . . . . Zinc  
 Valve . . . . . Teflon



### PARTS LIST

Ref. No.	Replacement Part No.	Description	Individual Parts Required
• 1	—	Air Regulator	1
2	GA-338	Pressure Gauge	1
3	SSP-8217-ZN	Swivel Adapter 1/4" NPT(M) X 1/4" NPS(F)	1
4	H-2008	Nipple 1/4" NPT(M) X 1/4" NPS(M)	1

• KK-4887-2 Diaphragm Repair Kit. See Pg. 2 for breakdown.

### DESCRIPTION

This unit is used in a compressed air system to maintain a nearly constant outlet pressure despite change in inlet air pressure and changes in downstream flow requirements. It is also used for finer control of air at the spray device. The air setting can be locked in place by pushing the adjusting knob downward.

## INSTALLATION

1. Install regulator as close as possible to the device being serviced. Regulator can be installed at any angle.
2. In systems with a cyclic demand, install regulator upstream of cycling control valves.
3. Air line piping should be same size as regulator ports.
4. Air flow must be in same direction as arrow on bottom of regulator body.

## OPERATION

1. Before turning on system air pressure, turn adjusting knob full counterclockwise. This will close regulator to produce zero air pressure. The knob is locked in position when pushed downward towards the regulator body.
2. Turn on system air pressure.
3. Turn regulator adjusting knob clockwise until desired outlet pressure is reached.
4. To avoid minor readjustment after making a change in pressure setting, always approach the desired pressure from a lower pressure. When reducing from a higher to a lower setting, first reduce to some pressure less than that desired, then bring up to the desired point. Lock the pressure setting by pushing the knob downward.

## PREVENTATIVE MAINTENANCE



Risk of injury from pressurized components. Turn off inlet air pressure and bleed off remaining pressure before disassembly.

1. Turn regulator knob counterclockwise until it stops.
2. Unscrew the bonnet from the regulator body, remove adjusting screw and nut, then the regulating spring (4), slip ring (5) and diaphragm (6). Using a screwdriver, unscrew the valve seat (7) and gasket. Then remove valve (8) and valve spring (9).

## CLEANING



Do not submerge regulator in spray gun solvents or use solvents to clean regulator parts. Damage may occur to gauge or regulator components.

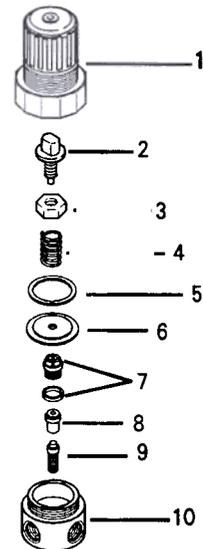
1. Clean parts using warm water and soap.
2. Inspect all parts and replace any damaged ones.

### Reassembly:

1. At reassembly, apply a small amount of lubricant SSL-10 gun lube to adjusting screw threads inside bonnet.
2. Torque valve seat (5) to 4-6 in./lbs. (do not over-tighten). Torque bonnet to 50-60 in./lbs.

Ref. No.	Description	Qty
1	Bonnet	
2	Adjusting Screw	
3	Nut	
4	Regulating Spring	
*5	Slip Ring	1
*6	Diaphragm, Teflon Protected	1
*7	Valve Seat & Gasket Assembly	1
*8	Valve, Teflon	
*9	Valve Spring	
10	Regulator Body	

Included in KK-4887-2 Diaphragm Repair Kit.



## SERVICE BULLETIN REVISIONS

Refer to the following chart for Part No./Literature changes.

Part No.			Literature Changes
Old Part No.	New Part No.	Interchangeability	
			Revised/updated regulator drawings

## WARRANTY

This product is covered by DeVilbiss' 1 Year Limited Warranty. See SB-1-000 which is available upon request.

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