LESLIE CONTROLS, INC.
A subsidiary of CIRCOR International, Inc.
12501 Telecom Drive • Tampa, FL 33637-0906

LESLIE AIRSET AS-1

SECTION I – General

The Leslie Controls, Inc. AIRSET AS-1 is a low-cost, high-precision, self-relieving filter-regulator. It is designed to provide clean, regulated air to instrument devices such as controllers, transducers, and valve positioners.

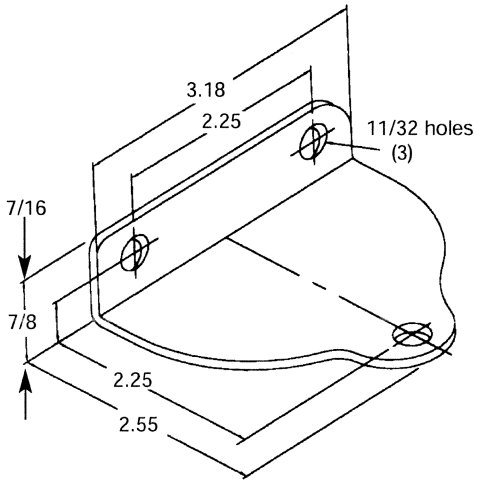
SECTION II – Installation

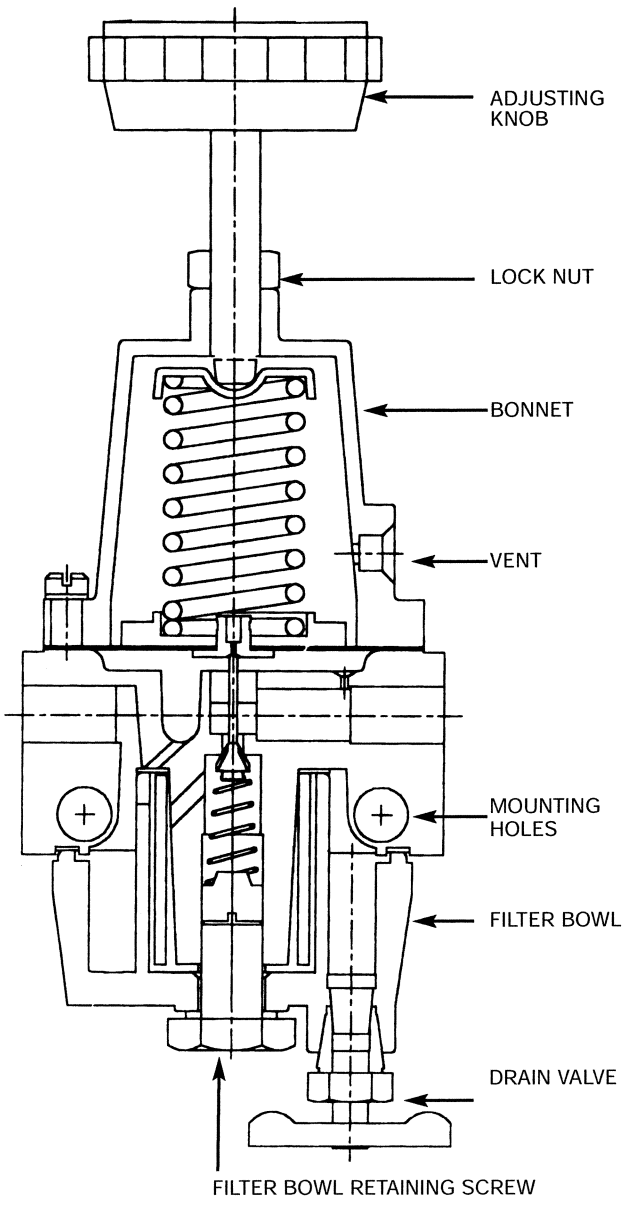
Any time the AIRSET is to be mounted other than vertically, it is important to locate the drain valve so that the filter bowl can be drained completely. Loosen the filter-bowl retaining screw, and rotate the drain valve to the bottom. It may be necessary to remove the filter bowl to reposition it correctly. Replace all gaskets and reinstall the filter bowl, if removed. Retighten the Filter Bowl retaining screw.

THERE ARE *FIVE* PRIMARY METHODS OF MOUNTING THE *AIRSET*.

A. Direct to the valve yoke/accessory mounting pad

There are two mounting holes cast into the body. Mount with two 5/16-18 x 3-1/2" Hex-Head capscrews. This is the most secure and rigid mounting and useful if the regulator will interfere with no other accessory. Most manufacturers' actuators have accessory mounting pad with the proper hole spacing and thread to mount the AIRSET.





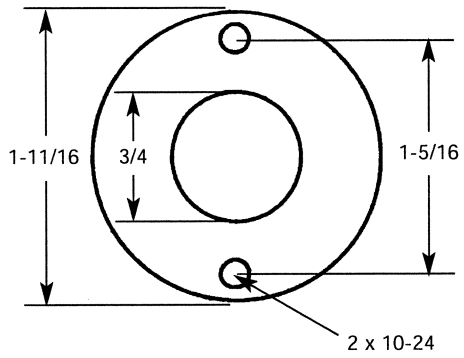
B. With the supplied bracket, to the actuator flange.

Attach the bracket to the AIRSET with two 5/16-18 x 3-1/2" hexhead capscrews and 2 5/16-18 nuts. Remove one actuator flange bolt, and reinstall it through the ear of the mounting bracket. This method is convenient when there are other accessories, and allows flexibility in locating the AIRSET for the most convenient tubing runs.

C. In-Line mount

The AIRSET can be mounted inline, supported only by the connections. It can be mounted directly to either its supply device, or more commonly to the device that it supplies, with a 1/4NPT nipple. The lightweight AIRSET does not overstress the nipple or the AIRSET's mounting hubs.

D. Panel Mount



The AIRSET is provided with panel-mount capability. Drill the panel with a 3/4" hole for the AIRSET bonnet. Drill (2) 7/32 holes in the panel on a 1 5/16" bolt circle on the vertical centerline. The AIRSET can be mounted in a panel up to 1/2" thick. Remove the adjusting screw, Place the AIRSET into position (with the vent port facing DOWN), and use 2 10-24 machine screws of appropriate length to secure the AIRSET to the panel. If the IN and OUT ports are not facing in a convenient direction, remove the AIRSET, disassemble the bonnet from the body, and reassemble the body to the bonnet in any of the four possible directions so the the ports are oriented for convenience. Reinstall the AIRSET in the panel.

E. Direct Instrument mount:

The AIRSET can be mounted directly against some instruments, such as certain Fisher® positioners. Remove the plug in the Gage connection and move it to the normal outlet port. Use (2) 5/16" capscrews to install the AIRSET so that the unit discharges directly to the instrument. It will be necessary to use a gasket supplied with the instrument.

III. Adjustment

The AIRSET is supplied with an adjusting knob for convenience. To adjust the device, loosen the locknut on the adjusting screw, turn the adjusting knob clockwise to increase pressure or counterclockwise to decrease pressure. Note, when decreasing the setpoint, the unit will vent the excess system pressure through the vent hole. Monitor the setpoint with a pressure gage in the unit's gage port, or with a gage on a downstream device. When the downstream pressure is correct, tighten the locknut to lock the adjustment screw.

IV. Maintenance

Leslie Controls, Inc. recommends that the unit be replaced if internal parts wear out. Normal service consists of cleaning the filter. Isolate the unit and blow down all internal pressure by opening the drain valve. The Drain valve opens by turning it counterclockwise. Remove the Filter-Bowl retaining screw and remove the filter bowl. Be careful to keep all the gaskets and filter element that come out with the bowl. Remove the filter and clean it with a solvent. The filter is sintered bronze and can be corroded by strong detergents or acids. Blow the filter dry with compressed air from the inside out, reassemble the AIRSET, and place it back into service. Check for leaks, and verify that the drain valve is closed.

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