

Monnier Secondary Regulator

Model 101-3002-1

Miniature airline regulator

0 or 5-60psi with adjusting locking ring

1/8" relieving type

Will mount through panel thickness to 5/16", Panel hole size: 1-7/32"

FUNCTION

With system pressure on, the regulator poppet valve assembly is in the closed position when the adjusting knob is turned fully counter clockwise (no spring load). By turning the adjusting knob clockwise, the diaphragm/ piston moves downward allowing flow to come in through the orifice created between the poppet assembly and seat. The control diaphragm/ piston offsetting the load spring senses pressure downstream. Increasing downstream pressure causes the poppet assembly to move upward until the load of the spring and diaphragm/piston are balanced. The outlet pressure has now been reduced. If a valve is opened downstream, the increased demand for pressure creates a reduced pressure under the control diaphragm/piston. The poppet assembly moves downward due to the load of the control spring opening the seat area and air is allowed to meet the downstream pressure demand. Thus, the area of the opening meters the downstream flow.

