



TYPE 700BP
Precision Back Pressure Regulator

INSTALLATION

The ControlAir Type 700BP is designed for air service only. The maximum supply pressure is 250 PSI. Clean all pipe lines thoroughly to remove dirt and scale before installation is made. Apply a small amount of pipe compound to the male threads only. Install regulator in air line; body is fitted with a 1/4" or 3/8" NPT for inlet and outlet connections. Regulator can be mounted in any position without affecting its operation. Avoid undersized fittings that will limit flow through the regulator and cause pressure drop downstream. The use of a filter to remove dirt and liquid in the air line ahead of the regulator is recommended for best performance. If an air lubricator is used, it should be located downstream beyond the regulator in order to avoid interference with the regulator performance.

SPECIFICATIONS

Flow Capacity	Up to 50 scfm (1,415 NI/min) depending on set point pressure and port size
Maximum System Pressure	250 psig (17 BAR)
Mounting	Pipe or panel
Ambient Temperature	0°F to 150°F (-18°C to 66°C)
Weight	1.5 lb (0.68 kg)
Materials of Construction	Body: diecast aluminum alloy, baked enamel finish. Trim: acetal, brass, and plated steel. Knob: phenolic plastic

OPERATION

The Type 700BP is a high capacity back pressure regulator that provides protection against over-pressurization on the upstream side of the pneumatic device(s) using regulated air. Before putting the regulator into service for the first time, relieve pressure on the range spring by turning the knob counter-clockwise. To operate, turn the pressure adjusting knob slowly in a clockwise direction until reaching a set pressure that is a suitable relief point for the pneumatic device(s).

MAINTENANCE

The regulator is easily disassembled for the occasional cleaning or removal of foreign matter. Before this is done, however, shut off valve upstream of the regulator to prevent escape of air when regulator is disassembled. There is no need to remove the regulator from the pipe line; remove the two No. 8-32 screws on the bottom of the unit and pull out the pintle assembly. Wash inner valve assembly with solvent exercising care to avoid damaging diaphragms and valve facings. (Avoid such solvents as acetone, carbon tet, trichlorethylene.) Replace assembly carefully.

LIMITED WARRANTY & DISCLAIMER

ControlAir, Inc. products are warranted to be free from defects in materials and workmanship for a period of eighteen months from the date of manufacture, provided said products are used according to ControlAir, Inc. recommended usages. ControlAir, Inc.'s liability is limited to repair of, refund of purchase price paid for, or replacement in kind of, at ControlAir, Inc.'s sole option, any products proved defective. ControlAir, Inc. reserves the right to discontinue manufacture of any product or change product materials, design or specifications without notice. Note: ControlAir does not assume responsibility for the selection, use, or maintenance of any product. Responsibility for the proper selection, use, and maintenance of any ControlAir product remains solely with the purchaser and end user.

WARNING: These products are intended for use in industrial compressed air systems only. Do not use these products where pressure and temperatures can exceed those listed under Specifications.
Before using these products with fluids other than air, for non-industrial applications, life-support systems, or other applications not within published specifications, consult ControlAir, Inc.