



# Absolute pressure regulator

## With integrated relief valve

### Features

- Inlet pressure range of 18 to 45 psi absolute
- Regulation pressure of 16 to 20 psi absolute
- Maximum relief pressure of 23 psi absolute
- Flow capacity of 0 to 20 SL/min
- Operating temperature of -51°C to +99°C
- Standard installed size of Ø75mm x 290mm including plenum

This pneumatic valve combines the functions of a low pressure regulator and pressure relief valve in one compact body.

Ultra has designed the valve to have a rugged yet lightweight construction for the demanding requirements of high-performance military aircraft.

The valve operates to an absolute pressure reference so that both the regulation and relief pressure remain constant in absolute terms regardless of ambient pressure (e.g. at altitude).

The standard valve incorporates an integral plenum volume to smooth cyclic flow demands; however customer specific interfaces can be designed upon request. Similarly, the valve can be designed to satisfy a range of particular pressure and flow requirements.

### Benefits

- Both regulation and relief control functions are provided by a single bellows capsule for maximum reliability
- Compact, lightweight design
- Qualified to demanding F-35 Joint Strike Fighter environment

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