

# AL: Air-lock 101 Device

The Air-Lock pressure static device is composed of a TP Pneumatic pressure switch combined with 2 x 3 way valves ND 1/4" in a single body. The Air-Lock pressure static device is mounted on pneumatic actuators when they need to be isolated from control devices (for example: positioners or electro-pneumatic distributors) in the event air pressure falls below the pre-determined operating safety point. The Air-Lock device consists mainly of a pneumatic pressure switch with an adjustable set point. This device synchronously drives the 2 x 3 way valves. The switching device operates immediately, even in the case of a gradual air-pressure decrease to the set value. The device will automatically reset after a failure when the line pressure is 1 bar greater than set pressure, to avoid instability around the device set point.



*Small and lightweight*

## Key features

- > Suitable for:
  - Standard, offshore, sandstorm and copper-free ambient conditions.
  - Single and double acting actuators.
  - Low and high ambient temperature.
- > Exclusive STI design for double 3 way valve in one body, to reduce assembly time, space and cost

## Benefits

- > Accurate pressure setting
- > Set screw lockable with nut
- > Insensitive to vibrations
- > Reset hysteresis with established safety
- > Synchronous drive for set pressure group + 2 x 3 way valve in one body
- > Small dimension and light weight



Aluminium (left) Stainless steel 316 (right)

## Technical specifications

### Materials

Anodized aluminium  
Stainless steel 316

### Operating temperature\*

-20°C to 70°C (-4°F to 158°F)  
-40°C to 70°C (-40°F to 158°F)  
-20°C to 85°C (-4°F to 185°F)

### Feeding connections

1/4" NPT

### Pilot signal connection

1/8" NPT

### CV max

Inlet = 1  
Outlet = 1

### Operating pressure

Design = 10 bar  
Operating = 7 bar  
Minimum operating = 2 bar

### Output connections

1/4" NPT

### Weight

Aluminium = 1kg  
Stainless steel 316 = 2.5kg

\* Lower or higher temperature available on request

## Dimensional drawing

