



AL | Air-lock 101 device



Product description

The Air-Lock pressure static device (model **AL**) is composed of a TP Pneumatic pressure switch (see page 10) combined with 2 x 3 way valves ND 1/4" in a single body (see page 12). The Air-Lock pressure static device is mounted on pneumatic actuators when they need to be isolated from control devices (positioners, electro-pneumatic distributors, etc.) 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.

Advantages

- **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**

Key features

Suitable for

- Standard, Offshore, Sandstorm, copper free ambient condition
- 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.

Technical specifications



ALUMINUM



STAINLESS
STEEL 316

Materials

- Anodized aluminum
- Stainless steel 316

Operating temperature*

- -20°C / +70°C
- -40°C / +70°C available on request
- -20°C / +85°C available on request

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

- Aluminum = 1 kg
- Stainless steel 316 = 2,5 kg

(*) Lower or higher temperature available on request.

Dimensional drawing

