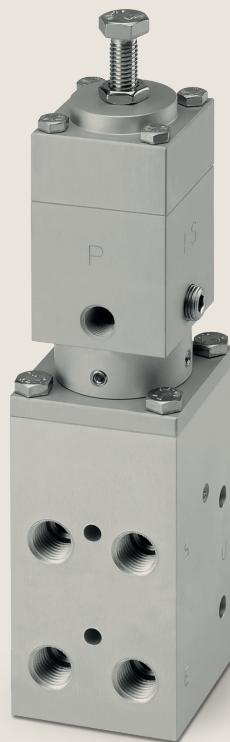


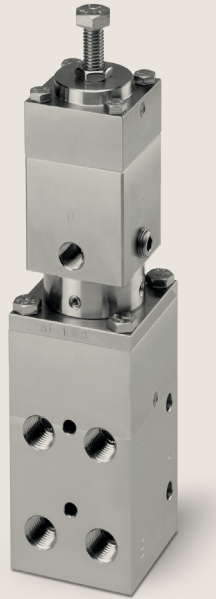
Process Automation

IMI STI

AL

Air-lock Device





AL

Air-lock 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.

Product 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.

Technical specifications

Materials
Anodized aluminium
Stainless steel 316

Operating temperature*
-20°C to 70°C
-40°C to 70°C
-20°C to 85°C

Feeding connections
1/4" NPT

Pilot signal connection
1/8" NPT

CV max
Inlet = 1
Outlet = 1

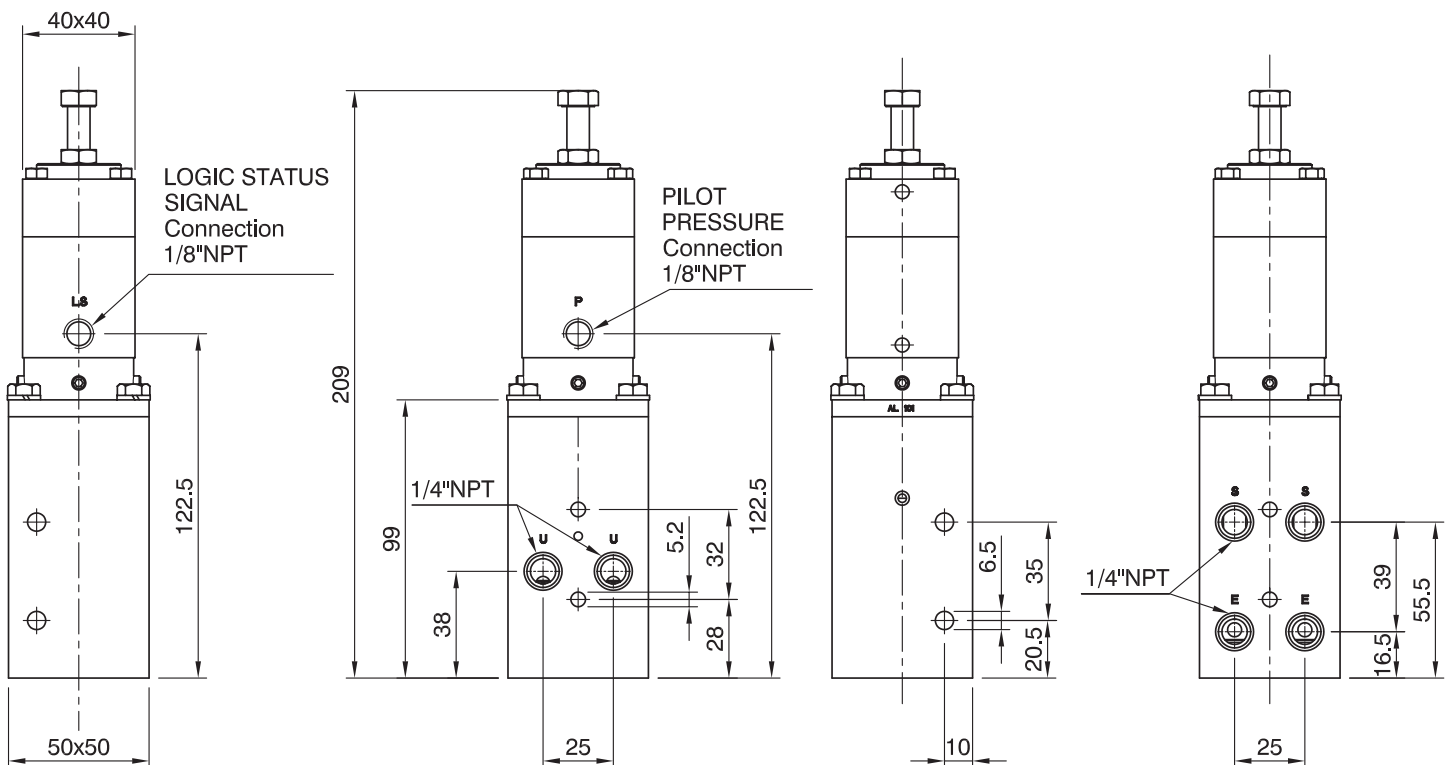
Operating pressure
Design = 10 bar
Operating = 7 bar
Minimum operating = 2 bar

Output connections
1/4" NPT

Weight
Aluminium = 1kg
Stainless steel 316 = 2.5kg

* Lower or higher temperature
available on request.

Dimensional drawing



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.

Process Automation

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