

# Compressed air requirements for Swedspjäll dampers equipped with pneumatic actuators

Instrumentation air shall be used, which means it is

- **Oil-free.** If oil lubrication is used, then the oil mist lubricator shall be set, in accordance with DIN51524HLP, to the lowest possible setting.
- **Clean, without pollution.** Maximum particle size: 40 µm.
- **Free of water.** The dew point of the air shall be -20° C for outdoors and 10° C indoors.

The following rough grouping can be done in terms of requirements:

1. Actuator	Can handle larger contaminants and moisture, but this will wear on the inner parts.
2. Solenoid valve	Depends on choice of valve. A valve with greater flow capacity is less sensitive.
3. Positioners	Has narrow, sensitive channels inside. Most positioners got a built-in filter, but it's only meant to be the last safety barrier to prevent failure.

## Compressed air requirements

The pneumatic actuators are calculated for an air pressure of **6 bar (g)**.

Both actuator and solenoid valve can manage up to 12 bar (g) without taking damage.

Our standard positioners has the following maximum allowed pressures:

**PMV D20** (for spring return actuators) maximum **6 bar (g)**

**PMV D3** (for double acting actuators) maximum **7 bar (g)**

## Supplementary equipment

If the above specified demands can't be met, an air pressure regulator with filter and water separator must be used.

We offer our **Series 150** regulator with 1/8" or 1/4" connection. (Price app. 75 EUR)



## Storage

We recommend that dampers equipped with positioners are stored indoors.

If this isn't possible, cover both positioner and actuator with a tarpaulin (or similar weatherproofing).

For more information regarding storage, see the *Operation and maintenance manual*, page 5.