

Product



No. 1 Position

The first pressure maintenance valve with manual air bleed

Product Features

The SDV-P-E is an option for the SDV-P pressure maintenance valve, and is used for manually ventilating the system.

Unique selling points:

- Integrated manual air bleed for the SDV-P unit
- No additional hosing required

Further product features:

- ✓ Small design
- ✓ One unit for all SDV-P sizes (04/07/10)
- ✓ Can be retrofitted into existing SDV-P's
- ✓ One SDV-P-E for each separate channel (A/B)
- ✓ Display of the channel, which is under pressure

Market and Competitors

Key Competitors

Advantages towards competitors:

- ✓ Possible to ventilate without having to remove the compressed air hose under pressure

Cost-effectiveness / Customer Benefits

- ✓ **Suitable**
For all SCHUNK pneumatic grippers, rotary and linear modules, as well as robot accessories
- ✓ **Variable applications**
For use on all pneumatic actuators of every manufacturer
- ✓ **Manual air bleed for pressure maintenance valve SDV-P**
Enables ventilating of the channels, such as service support

Questions about the product? Your contact person at Product Management, Gripping Systems, is Marcel Nagel (+49-7133-103-2561)

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Technical Data/Functions

Technical Data:

- ✓ Sizes: One-size-fits-all Ø18x24.5
- ✓ Connection: M5 to SDV-P

Complementary products:

- ✓ Like the SDV-P units
- ✓ Almost all grippers, e.g. PGN-plus
- ✓ Almost all rotary actuators, e.g. SRU-plus
- ✓ All commercially available pneumatic cylinders

Industries and Applications

SDV-P convinces in the following industries:

- ✓ Automotive industry
- ✓ Assembly and handling
- ✓ Metal cutting

Applications

- ✓ Handling of pump/nozzle elements
- ✓ Handling of motor housing

In case of a loss of pressure, the pressure maintenance valve prevents the air escaping from the pneumatic actuator. This prevents a loss of clamping force, e.g. with grippers and the workpieces remain securely clamped in the claw jaws. Particularly suitable for grippers that cannot be fitted with mechanical maintenance of gripping force via springs.

Additional information:

Through the use of our SDV-P valve, the pressure can remain in the piston chamber of our modules when there is a drop in pressure or emergency stop, so that our unit is fixed in a defined end position. This function has been used for many years and is gaining importance with the awareness of our customers regarding the EC Machinery Directive. Customers increasingly want to know how the mounted module can be enabled for the necessary set up of the system before restart after an emergency stop situation without disconnecting the hose.

A possible solution is the integration of an quick air bleed screw into the existing pressure maintenance valve SDV-P, which at the same time, is a unique selling point compared to the pressure maintenance valves of competitors.

The products will initially be offered as further product variants, but in the future will be compatible with existing products with regards connection dimensions and properties (e.g. flow rate, etc.).

Sectional diagram of function



1. Housing
2. Fastening holes
3. Air connection
4. Valve plunger
5. Packing set

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