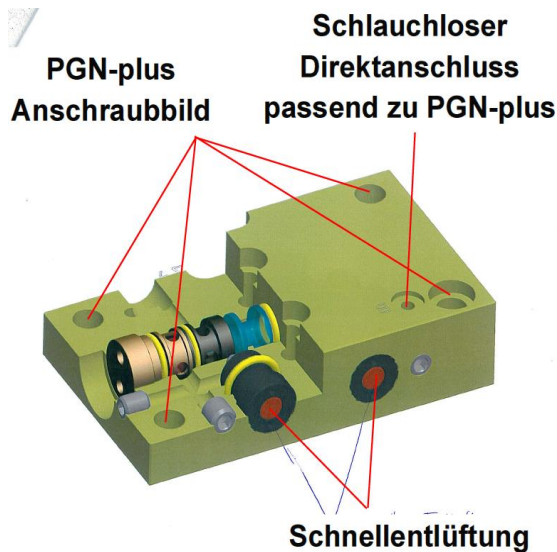


Product



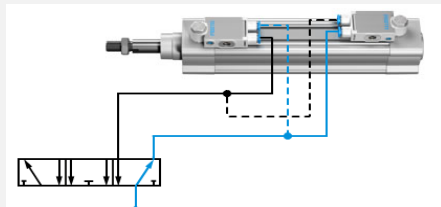
No. 1 Position

The first pressure maintenance valve with a direct screw connection diagram for the PGN-plus (and grippers on the same platform) and a manual quick air bleed screw

Market and Competitors

Key Competitors:

Festo:



- More tubing work required with Festo
- Additional interfering contour

Sommer:

DSV 1/8



Advantages over Sommer:

- ✓ More comprehensive ranges (BG 04, 07, and 10)
Possible to air bleed without having to remove the compressed air hose under pressure
- ✓ Can be directly screwed on to the gripper

Product Features

Unique Selling Points:

- Integrated manual air bleeding of the valve (without having to disconnect the hose)
- Identical screw connection diagram as used in PGN-plus (and grippers on the same platform)

Further Product Features:

- ✓ Everything is integrated compactly in one housing, meaning that additional hoses are not needed
- ✓ Screw connection diagram of PGN-plus 100
- ✓ Direct air connection to the PGN-plus 100
- ✓ Compatible with all grippers using the PGN-plus screw connection diagram, such as PGW-plus 100, DPG-plus 100, JGP 100, etc.
- ✓ Can be retrofitted on the PGN-plus 100 and all grippers on this platform

Cost-effectiveness / Customer Benefits

- ✓ **Direct connection for the gripper can be used on the base side**
No hoses between the valve and gripper, meaning greater process reliability as the hose cannot tear off
- ✓ **SDV-P is attached between PGN-plus and the adapter plate**
Little interfering contour, can be simply retrofitted into existing systems
- ✓ **Hose-free direct connections available on both sides**
This means complete set-up is possible without any hoses whatsoever. Greater process reliability particularly when setting up gripping-turning units, since then even with a pressure maintenance valve, hoses are no longer installed (these can get caught up and tear off when the turning unit is swiveled).

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: 04, 07, 10, 100
- ✓ Max. flow: 200 l/min, 300 l/min, 800 l/min, 200 l/min
- ✓ Air connection: G1/8, G1/4, G3/8, direct connection
- ✓ Max. operating pressure: 10 bar

Complementary Products:

- ✓ Like the SDV-P units
- ✓ Almost every gripper, e.g. PGN-plus
- ✓ Almost every rotary actuator, e.g. SRU-plus
- ✓ All commercially available pneumatic cylinders

Industries and Applications

SDV-P convinces in the following besonders:

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

Applications:

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

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 a 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

Illustration still missing

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

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