

For internal use only!

Product



Unique Selling Points

- ✓ **Direct mounting (actuator) guarantees high operating effectiveness**
- ✓ Modular and compact design
- ✓ Easy installation and direct attachment
- ✓ High flow rates
- ✓ Short actuator cycle times and large number of switching cycles
- ✓ Maintenance-free
- ✓ Valve cartridges can be integrated in a very constricted installation space

Technical Data / Functions

- ✓ Sizes: MV 15/25/30
- ✓ Nominal values: 1.5 mm .. 3.0 mm
- ✓ Nominal flow rate at 6 bar: 45 NI/min .. 175 NI/min
- ✓ Power consumption: 2.8 W .. 5.4 W
- ✓ On-time with compressed air at 25°C: 100% on-time
- ✓ -15°C – 95°C valve coil temperature
- ✓ -15°C – 80°C surface temperature

The MV integrated micro valves consist of variously combined components:

- ✓ Valve cartridge
- ✓ Valve base (fixed cap, screw cap)
- ✓ Accessories

Cost Effectiveness/ Customer Benefits

- ✓ Reduced interfering contour, which means direct attachment to actuator is possible.
- ✓ Direct assembly on actuator possible, which means air can be saved, because the supply air hoses are no longer ventilated as well.
- ✓ Extremely robust valves, which means reliable processes on a sustained basis.
- ✓ Modular design, which means exact configuration of the valve is possible (flexibility).
- ✓ Short cycle times, which means more cycles possible per unit of time.
- ✓ Maintenance-free, which means no objectionable downtimes.
- ✓ High flow rates for the relatively compact sizes.
- ✓ Long life span (millions of switching cycles without downtime).
- ✓ Valves can also be used within vacuumed areas.
- ✓ High flow rates with low current input is possible thanks to the use of the electronics.

Price from 29 euros (cartridge) to 72 euros (complete valve) (note: this does not apply to the add-on valve)

Questions about the product? Your contact person is Gregor Metzler (+49 - 7133 - 103 - 2752)



Market and competitors

Main competitors

- ✓ Staiger GmbH & Co.KG (Spider valve series)
- ✓ SMC
- ✓ ASCO/Joucomatic
- ✓ FAS
- ✓ Norgren

Line of Argument

What advantages are there in installing the SCHUNK micro valves directly on the actuators?

Less air consumption and therefore savings of energy resources. Direct attachment of the micro valves leads to a more optimized air supply for the actuator (gripper) and, in certain series, to considerably shorter cycle times or movement cycles. The easy installation takes place via a swivel fitting in which the modularity provides all options for combining valve cartridges, valve covers, and throttles.

The interference area due to the add-on valve on the gripper could be larger!

Depending on the direction of attachment the interference area is indeed larger, however the interfering hoses is reduced to one air supply. The development of a compact mounting box is in progress. The interference area will then be reduced even further.

The micro valves are relatively expensive both for the add-on valve and for the complete micro valves! (caps, valve cartridges, and swivel fitting)

The prices are in line with the market. The differing designs offer both a broad and individual area of application thanks to the combination options. In this way, the micro valves are versatile in their use.

Industries and Applications

Industries

- ✓ Dosing technology (air, not fluids)
- ✓ Food and luxury food industries
- ✓ Packaging industry
- ✓ Assembly and handling
- ✓ Electronics industry
- ✓ Special machines

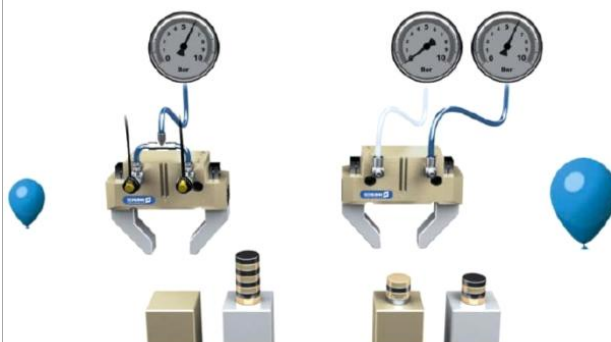
Applications

- ✓ Robotic milking system
- ✓ Rotary transfer machine
- ✓ Automatic insertion unit (Siemens automation system)
- ✓ Gas chromatography (medical/ surgical equipment)
- ✓ Vacuum suction cup (automation)
- ✓ Dosing technology (Rampf)
- ✓ Farming systems
- ✓ Printing industry (conveyor systems)
- ✓ Special purpose machines in feeding technology
- ✓ Automation - direct attachment of valves to the gripper

with add-on valve

- ✓ Less air consumption
- ✓ Shorter cycle times

with conventional pneumatic supply



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