



## Product Overview

# precision and competence

From development to  
production.



# Automatic Spray Valve

## KA-2



### SCHÜTZE Spray Valve KA-2



The compact design of the KA-2 series makes them particularly suitable for narrow installation spaces. They are preferably used for the application of release agents, oils and paints. They can be perfectly adapted to the desired requirements thanks to a wide variety of nozzles and air caps.

*Material pressure: max. 3 bar*

*Options:*

- pneumatic stroke adjustment
- needle sensing
- quick release adapter
- high pressure version (30 bar)

## KA-2 HD / IS



### SCHÜTZE Spray Valve KA-2 HD / IS



The spray valves of the KA-2 HD / IS series are a further development of the KA-2 series. Due to the integrated spray air control, only one solenoid valve is required for control. It also cleans the nozzle by delaying the closing of the spray air.

They can be perfectly adapted to the desired requirements thanks to a wide variety of nozzles and air caps.

*Material pressure: max. 30 bar*

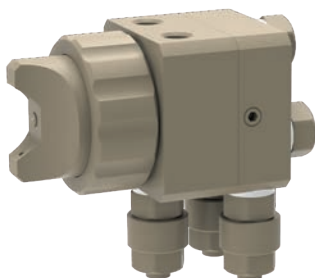
*Options:*

- pneumatic stroke adjustment
- needle sensing
- quick release adapter

## KA-2 / PEEK



### SCHÜTZE Spray Valve KA-2 / PEEK



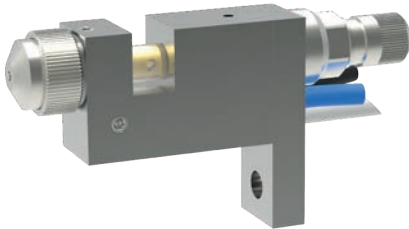
The KA-2 / PEEK spray valves are made of PEEK, the high-performance plastic that gives them their name. PEEK has a high thermal, mechanical and chemical resistance and is also highly biocompatible. The KA-2 / PEEK spray valves are therefore preferably used for applications in food and pharmaceutical industries. Due to their very low weight of well below 50 grams, these valves are also used for weight-relevant application.

*Material pressure: max. 3 bar*

*Options:*

- quick release adapter

MFS



## SCHÜTZE Spray Valve MFS

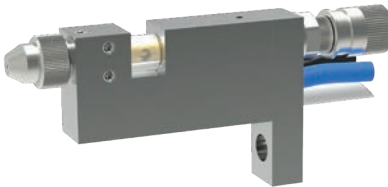
The MFS spray valves are maintenance-friendly and low-wear due to their simple design. They are preferably used for oiling and for the application of release agents. The KLS version is ideal for applying adhesives and glues. They can be perfectly adapted to the desired requirements thanks to a wide variety of nozzles and air caps.

*Material pressure: max. 6 bar*

*Options:*

*- pneumatic stroke adjustment*

MMFS



## SCHÜTZE MINI Spray Valve MMFS

The MMFS spray valves are particularly well suited to be connected in series due to their narrow design of 15 mm. They were specially developed for the application of marking inks. Thanks to a wide variety of nozzles, they can be perfectly adapted to the desired requirements.

*Material pressure: max. 6 bar*

ASV



## SCHÜTZE Spray Valve ASV

The ASV spray valves can be quickly and easily adapted to new spraying requirements thanks to the integrated round/flat spray pattern adjustment. The separate round/flat spray pattern air allows all spray angles to be generated without changing the air cap.

*Material pressure: max. 10 bar*

*Options:*

*- needle sensing*

*- quick change plate*

MSV



## SCHÜTZE MINI Spray Valve MSV



Due to their miniature design, the MSV spray valves can be installed in the smallest spaces. They are preferably used for the ultra-fine application of low-viscosity fluids such as release agents or oils. They can be perfectly adapted to the desired requirements thanks to a wide variety of nozzles and air caps.

*Material pressure: max. 3 bar*

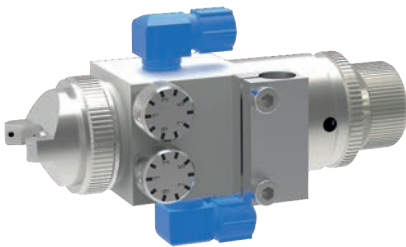
*Options:*

- quick release adapter
- needle sensing

GF / 3



## SCHÜTZE Spray Valve GF / 3



The GF / 3 spray valves have been developed for the large-area application of paints and varnishes. They can be perfectly adapted to the desired requirements thanks to the adjustable spray air valve, which regulates the run-on time, as well as the infinitely variable round or flat spray pattern adjustment.

*Material pressure: max. 10 bar*

GF / 5



## SCHÜTZE Spray Valve GF / 5



The GF / 5 spray valves have been developed for the large-area application of paints and varnishes. They are used when quick change or replacement of the spray valve is required for cleaning or maintenance. The valves can be perfectly adapted to the desired requirements thanks to the wide variety of nozzle and air caps.

*Material pressure: max. 15 bar*

## AHDM

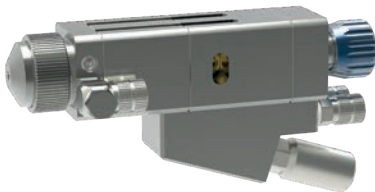


## SCHÜTZE Spray Valve AHDM

The AHDM spray valves are Airmix valves and combine the advantages of both airless- and air atomization. Due to their additional air support during airless spraying, a very fine and low mist application can be achieved.

*Material pressure: max. 50 bar*

## VDV-25-S



## SCHÜTZE Dispensing Valve VDV-25-S

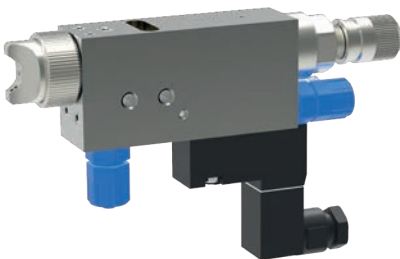
The VDV dispensing valves have been specially developed for the precise dispensing of lubricants. They are suitable for dispensing a pre-set volume of material, independent of material pressure and cycle time. Depending on requirements, they are available as spray valves with various nozzles and air caps or as extrusion valves, e.g. with an adapter for Luer-Lock dispensing needles. A problem-free, later conversion is also possible.

*Material pressure: max. 150 bar*

*Options:*

*- electrical function monitoring*

## MKD-IS R/F



## SCHÜTZE Spray Valve MKD-IS R/F

The MKD-IS R/F spray valves can be quickly adapted to new spray requirements due to their round/flat spray pattern adjustment.

Due to the integrated spray air control, only one solenoid valve is required. It also cleans the nozzle by delaying the closing of the spray air. The separate round/flat spray pattern air allows all spray angles to be generated without changing the air cap.

*Material pressure: max. 15 bar*

*Cycle frequency: max. 30 Hz*

*Options:*

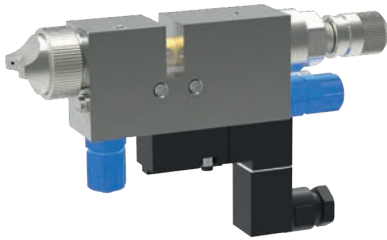
*- needle sensing*

*- pressure transmitter*

## MKDD-IS



### SCHÜTZE Spray Valve MKDD-IS



The spray valves of the MKDD-IS series are differential pressure valves and close with air support. They have been specially developed for the application of adhesives. The internal control of the run-on time can be set individually. The valves can be perfectly adapted to the desired requirements thanks to the wide variety of nozzles and air caps.

*Material pressure: max. 15 bar*

*Cycle frequency: max. 30 Hz*

*Options:*

*- pressure transmitter*

## ESV-IS



### SCHÜTZE Spray Valve ESV-IS



The ESV-IS spray valves are electrically controlled application valves which are operated by means of a coil. The ESV series is characterized in particular by its short switching time. Due to the internal spray air control, no additional solenoid valve is required and the atomization of the material to be applied is always guaranteed. The valves can be perfectly adapted to the desired requirements through a wide variety of nozzles and air caps.

*Material pressure: max. 3 bar*

*Cycle frequency: max. 250 Hz*

## MVV



### SCHÜTZE Extrusion Valve MVV



Due to their miniature design, the MVV extrusion valves can be installed in the smallest spaces. They have been specially developed for the distance dispensing of drops and are preferably used in the wetting of components that are difficult to access.

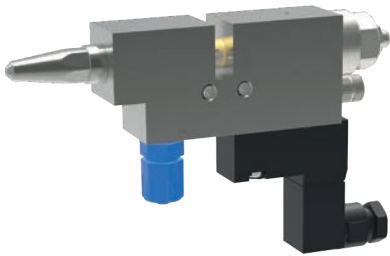
*Material pressure: max. 15 bar*

*Options:*

*- quick release adapter*

*- needle sensing*

## MKDD LV / KV



## SCHÜTZE Extrusion Valve MKDD LV / KV

The MKDD LV / KV extrusion valves are differential pressure valves and close with air support. They have been specially developed for the application of adhesives, sealants and oils.

*Material pressure: max. 15 bar*  
*Cycle frequency: max. 30 Hz*

*Options:*  
*- pressure transmitter*

## MMDV / MV



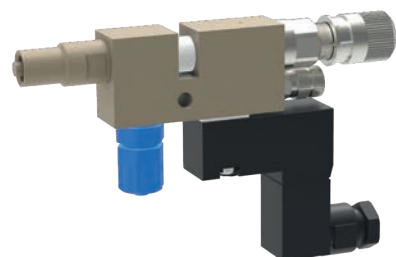
## SCHÜTZE Extrusion Valve MMDV / MV

The MMDV / MV extrusion valves are full jet valves and can be mounted particularly well on industrial robots due to their small design. They have been specially developed for the application of adhesives, sealants and oils.

*Material pressure: max. 30 bar*  
*Cycle frequency: max. 30 Hz*

*Options:*  
*- needle sensing*  
*- pressure transmitter*

## MMDD / PEEK



## SCHÜTZE Extrusion Valve MMDD / PEEK

The MMDD / PEEK are extrusion valves with material-contacting parts made of the highperformance plastic PEEK. PEEK has a high thermal, mechanical and chemical resistance and is also highly biocompatible. Due to their very low weight of well below 200 grams, these valves are also used for weight-relevant application. Another advantage of PEEK is that it does not react with anaerobic curing adhesives. The MMDD / PEEK series valves are therefore predominantly used for the application of adhesives.

*Material pressure: max. 10 bar*

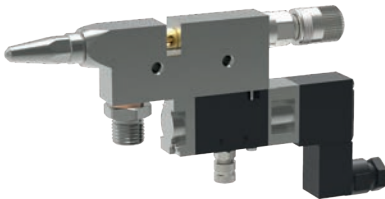
*Options:*  
*- Luer-Lock*  
*- needle sensing*



## MMKD-40



### SCHÜTZE Extrusion Valve MMKD-40



The MMKD-40 extrusion valves are fast-switching, full jet valves and can be mounted particularly well on industrial robots due to their small design. They have been specially developed for the application of adhesives and other high-viscosity materials.

*Material pressure: max. 100 bar*

*Cycle frequency: max. 20 Hz*

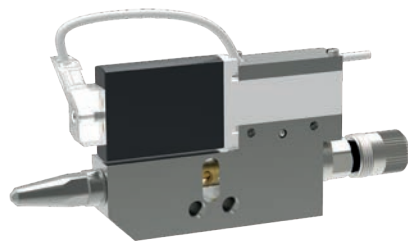
*Options:*

- needle sensing
- pressure transmitter
- circulation connection

## MMKD-50



### SCHÜTZE Extrusion Valve MMKD-50



The MMKD-50 extrusion valves are fast-switching full jet valves and can be mounted particularly well on industrial robots due to their small design. They have been specially developed for the application of adhesives and other high-viscosity materials.

*Material pressure: max. 100 bar*

*Cycle frequency: max. 200 Hz*

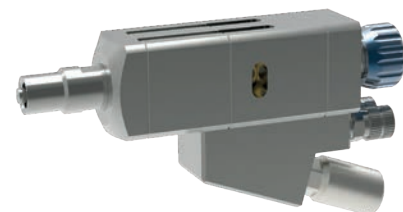
*Options:*

- needle sensing
- pressure transmitter
- circulation connection

## VDV-25-L



### SCHÜTZE Dispensing Valve VDV-25-L



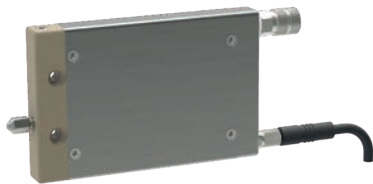
The VDV dispensing valves have been specially developed for the precise dispensing of lubricants. They are suitable for dispensing a pre-set volume of material, independent of material pressure and cycle time. Depending on requirements, they are available as spray valves with various nozzles and air caps or as extrusion valves, e.g. with an adapter for Luer-Lock dispensing needles. A problem-free, later conversion is also possible.

*Material pressure: max. 150 bar*

*Options:*

- electrical function monitoring

## EMVV



### SCHÜTZE Extrusion Valve EMVV

The EMVV full jet valves operate with a hinged armature solenoid valve which enables fast cycles and operation with aggressive fluids.

The EMVV series is also characterised by its low weight of less than 100 grams and its small width of only 10 millimetres.

*Material pressure: max. 7 bar*

*Cycle frequency: max. 80 Hz*

## EVV



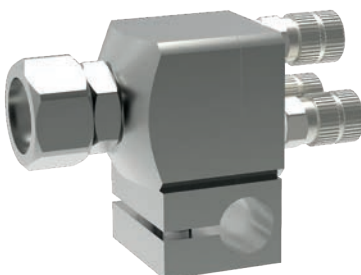
### SCHÜTZE Extrusion Valve EVV

The EVV extrusion valves are electrically controlled application valves which are operated by means of a coil. The EVV series is characterised in particular by its very short switching times. In this way, the application material can be dispensed very precisely and cycle times in the machine or system can be minimized.

*Material pressure: max. 25 bar*

*Cycle frequency: max. 350 Hz*

## KA-2 / Airless



### SCHÜTZE Spray Valve KA-2 / Airless

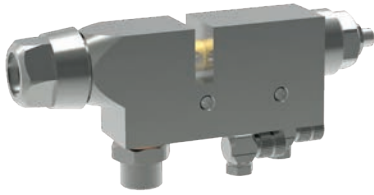
The KA-2 / Airless spray valves are mini airless valves for the airless atomizing application of fluids with up to 150 bar. The valve is used with commercially available AIRLESS nozzles.

*Material pressure: max. 150 bar*

S-830



## SCHÜTZE Airless Valve S-830

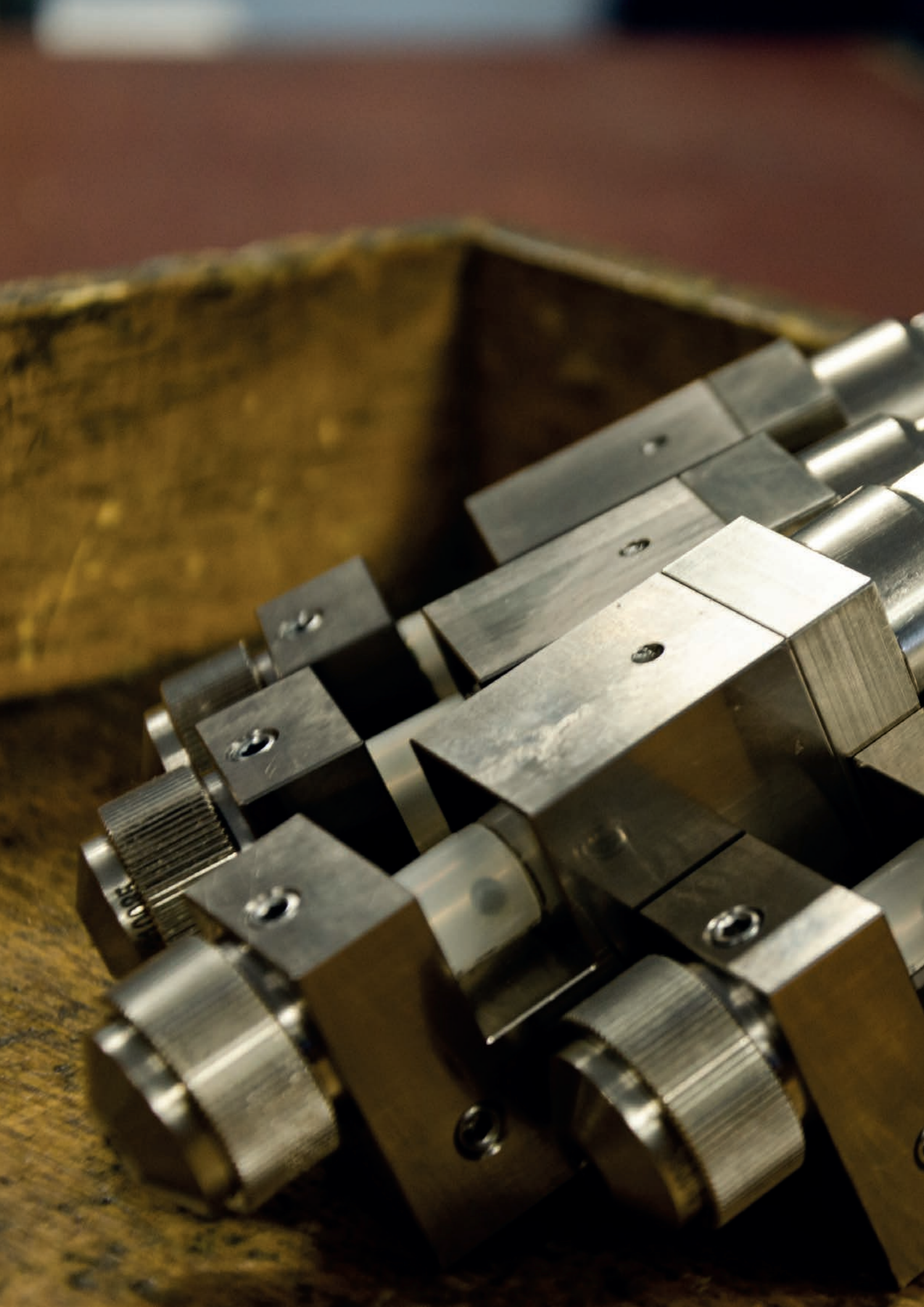


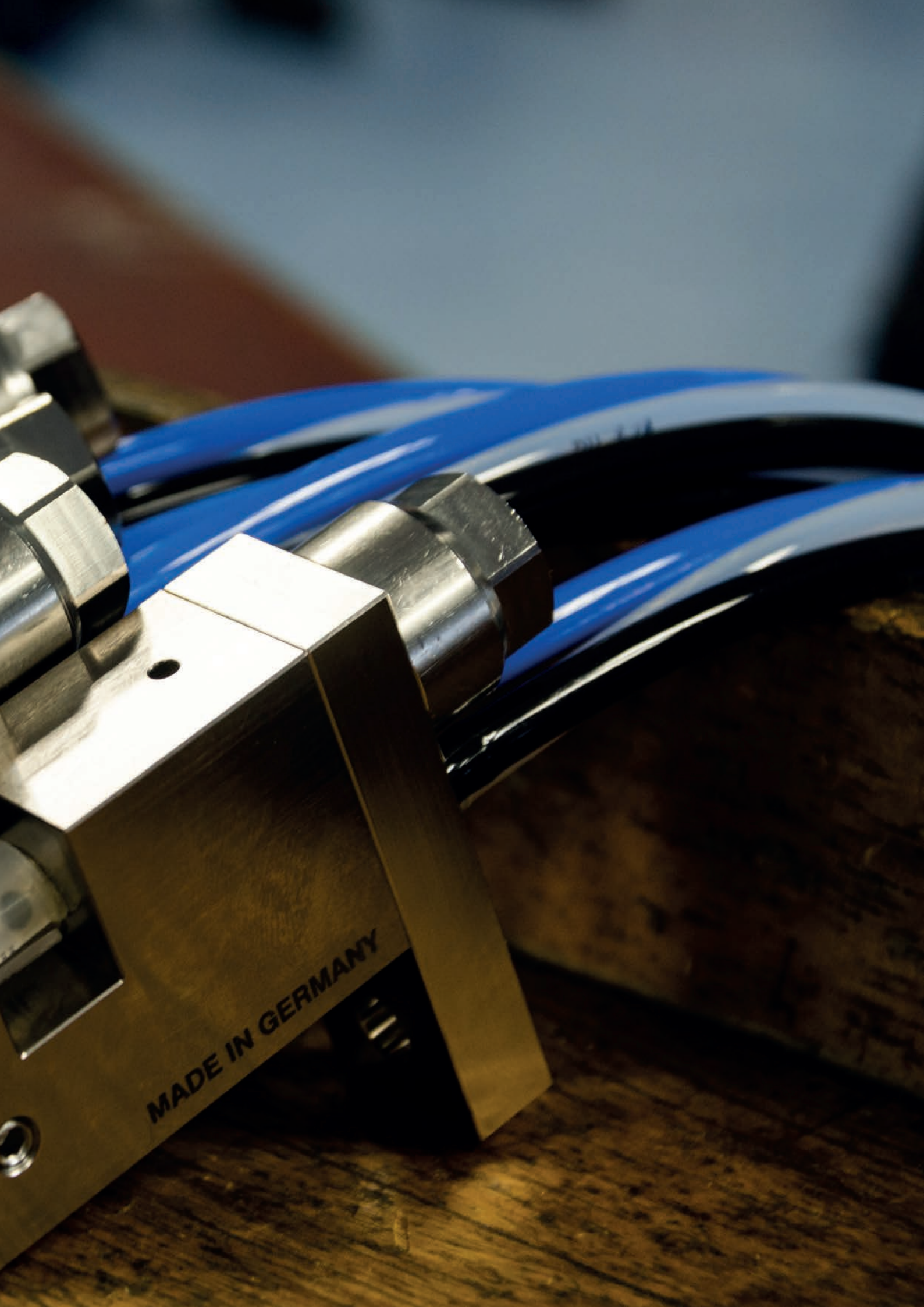
The S-830 airless valves operate on the principle of airless atomization. They are preferably used when no additional air may be introduced into the system during spraying (contamination) or when compressed air is not available in sufficient quantity. S-830 valves are characterised by their robustness and long service life. They can be equipped with commercially available airless nozzles.

*Material pressure: max. 250 bar*

*Options:*

*- quick release adapter*





MADE IN GERMANY

# Manual spray guns

W1 / W1 IK



## SCHÜTZE W1 / W1 IK

The W1 and W1 IK manual spray guns are standard paint spray guns with a 600 cc flow cup made from aluminium or plastic. The W1 manual spray guns are robust, conventional spray guns for manual and industrial use. Thanks to its round/flat spray pattern adjustment, it can be adapted to any requirement within seconds.

*Options:*

- 300 / 700 / 750 cc cup

S 941



## SCHÜTZE S941

The S941 manual spray guns are high-performance paint spray guns with a 600 ccm plastic flow cup. Thanks to its fine air adjustment and the round/flat spray pattern adjustment, its spray parameters can be precisely adapted to professional paint applications. The flow cup is equipped with a sieve. The drip stop in the cover prevents leakage in an inclined position.

W7 A / B / S / K



## SCHÜTZE W7 A / B / S / K

The W7 manual spray guns are high-performance combination spray guns which, due to their various version, have been designed for professional use. The W7 series is available in different version as pressure tank, flow cup, suction cup or carabiner pot version. Thanks to their round/flat spray pattern adjustment, their spraying parameter can be precisely adapted to professional paint application.

**S 947 A / B / S / K**

**SCHÜTZE S947 A / B / S / K**

The S947 manual spray guns are high-performance combination spray guns, which, due to their various version, have been designed for professional use. The S947 series is available in different version as pressure tank, flow cup, suction cup or carabiner pot version. Thanks to its fine air adjustment and the round/flat spray pattern adjustment, its spray parameter can be precisely adapted to professional paint application.

**W3 / FZ-Duo**

**SCHÜTZE W3 / FZ-Duo**

The W3 / FZ-Duo manual spray guns have been specially developed for the application of thin, liquid release agents. The W3 / FZ-Duo series is particularly characterised by its robustness, its simple installation and simple cleaning. A wide variety of nozzles and air caps allow the devices to be perfectly adapted to the desired requirements.

*Material pressure: max. 4 bar*

*Options:*

- hose kink protection
- high-pressure version
- hook

**W3 / FZ-Duo R / F**

**SCHÜTZE W3 / FZ-Duo R / F**

The W3 / FZ-Duo R/F series manual spray guns have been specially developed for the application of thin, liquid release agents. The W3 / FZ-Duo R/F series is particularly characterised by its robustness, its simple installation and simple cleaning. Thanks to its round/flat spray pattern adjustment, the spray angle can be adjusted exactly for the desired application without changing the air cap.

*Material pressure: max. 4 bar*

*Options:*

- hose kink protection
- hook

## W3 / FZ-Duo HD-Mix



## SCHÜTZE W3 / FZ-Duo HD-Mix

The W3 / FZ-Duo HD-Mix manual spray guns are Airmix spray guns. They combine the advantages of both airless- and air atomisation. Due to their additional air support during airless spraying, a very fine and low-mist application can be achieved.

The W3 / FZ-Duo HD-Mix series is particularly characterised by its robustness, its simple installation and simple cleaning. Commercially available Airmix nozzles can be used.

*Material pressure: max. 50 bar*

## W3 / W3 F



## SCHÜTZE W3 / W3F

The W3 / W3F manual spray guns are spray guns for small, challenging spraying jobs. Thanks to their easy manageability and precision nozzle system, they are often used for precise painting work. The W3 / W3F series is particularly characterised by its robustness, its simple assembly and simple cleaning.

## S2-K



## SCHÜTZE S2-K

The two-component spray guns of series S2-K are specially developed for spraying two component materials such as adhesives and paints. Each component is supplied to a spray head separately. The two components are mixed for the first time within spray jet. This prevents any reacting of the components beforehand. Due to the individual adjustment of material quantity for each component, mixing ratio and application quantity can be ideally adapted to meet individual requirements.

*Material pressure: max. 6 bar*



## KSV



### SCHÜTZE Manual Spray Valve KSV



Developed for manual spray application of adhesives, KSV manual valves present further possibilities in the field of manual application technology. The spray valves are made of the high-performance plastic PEEK. It has a high thermal, mechanical and chemical resistance and is also highly biocompatible. Other advantages of PEEK are its low weight and its resistance to anaerobic curing adhesives. The spray pattern can be adapted to almost all application thanks to a variety of nozzles and air caps.

*Material pressure: max. 15 bar*

*Options:*

- balancer

## HSV



### SCHÜTZE Manual Spray Valve HSV



The HSV manual spray valves are pneumatically operated spray guns. The spraying process is triggered by an electric push button which must be connected to an external controller or a solenoid valve. Depending on the version, the atomizing air is controlled either internally or externally. Various nozzles, air caps and nozzle extensions allow the units to be adapted to a wide variety of application.

*Material pressure: max. 15 bar*

*Options:*

- needle sensing

## SDV



### SCHÜTZE Pin Dispensing Valve SDV



The SDV valves are available as full jet dispensing valves and as spray valves. They are also available in different sizes depending on the required application. Depending on the version, triggering can be done manually or via pneumatic remote control.

*Material pressure: max. 15 bar*

*Options:*

(depending on design)

-needle sensing

W5 / P



## SCHÜTZE W5 / W5 P

The W5 blow guns are classic blow/cleaning guns. They are predominantly used for cleaning parts and blowing out drill holes. The W5 series is available in different version, for example with protective screens, with turbo- or noise-silencing nozzles as well as with different tube lengths.

S720 / KL



## SCHÜTZE S720 / KL

The S720 / KL manual spray guns are dispensing guns for the bead-shaped application of high-viscosity fluids such as sealants and adhesives.

*Material pressure: max. 50 bar*

HDV



## SCHÜTZE Manual Dispensing Valve HDV

The HDV manual dispensing valves are pneumatically operated spray guns. The dispensing process is triggered by means of an electric push button which must be connected to an external controller or a solenoid valve. The HDV series was developed for the application of higher-viscosity fluids such as sealants, adhesives or pastes. Various nozzles and nozzle extensions allow the units to be adapted to a wide variety of application.

*Material pressure: max. 100 bar*

*Options:*

*- needle sensing*



# Supply of materials

## Vol./-Series



## SCHÜTZE Material Pressure Tanks Vol./-Series

The material pressure tanks of series Vol./ are available in sizes 1 / 2 / 4 / 6 / 10 liter made from aluminum and in sizes 2 / 6 / 20 / 40 liter also made from stainless steel.

They are particularly suitable for the continuous and consistent supply of material to the spray guns or valves. In standard supply tanks are equipped with a control unit for material pressure and a control unit for atomizing air pressure, making the entire supply of a simple manual spraying system possible. Optionally tanks are available with only one control unit for material pressure.

*Material pressure: 2,5 bar + 6 bar*

*Options:*

- stainless steel
- filling level measurement
- agitators

## V-Series



## SCHÜTZE Material Pressure Tanks V-Series

The material pressure tanks of series V are robust stainless steel tanks which are available in the sizes 2 / 5 / 10 / 20 / 30 and 40 liter. They are particularly suitable for the continuous and consistent supply of material to the spray guns or valves. In standard supply tanks are equipped with a control unit for material pressure and a control unit for atomizing air pressure, making the entire supply of a simple manual spraying system possible. Optionally tanks are available with only one control unit for material pressure. The filler cap on the tank lid makes it easy to fill without having to remove the lid completely.

*Material pressure: max. 6 bar*

*Options:*

- stainless steel
- filling level measurement / pressure monitoring
- agitators

## VS-Series



## SCHÜTZE Material Pressure Tanks VS-Series

The material pressure tanks of series VS are stainless steel tanks available in the sizes 1 / 2 / 5 and 10 liter. They are particularly suitable for the continuous and consistent supply of material to the spray guns or valves. In standard supply tanks are equipped with a control unit for material pressure and a control unit for atomizing air pressure, making the entire supply of a simple manual spraying system possible. Optionally tanks are available with only one control unit for material pressure. Thanks to the quick-release toggle latches, these tanks can be opened quickly and easily for filling and cleaning.

*Material pressure: max. 2,5 bar*

*Options:*

- stainless steel
- filling level measurement
- agitators

## DG-Series



### SCHÜTZE Material Pressure Tanks DG Series

The material pressure tanks of series DG are low-cost stainless steel tanks available in sizes 6 / 9 and 18 liter. They are particularly suitable for the continuous and consistent supply of material to the spray guns or valves. In standard supply tanks are equipped with a control unit for material pressure and a control unit for atomizing air pressure, making the entire supply of a simple manual spraying system possible. Optionally tanks are available with only one control unit for material pressure. The quick-release cover makes it easy to fill and clean the tanks.

*Material pressure: max. 2,5 bar*

*Options:*

- stainless steel
- filling level measurement



## ZIP-52



### SCHÜTZE Double Diaphragm Pump ZIP-52

The Schütze double diaphragm pump ZIP-52 is made from plastic. It is equipped with all necessary fittings to supply air and material to a spray gun or valve. All media-contacting seals and diaphragms are made from PTFE. Sealing balls are made from stainless steel. Optionally ZIP-52 is also available in stainless steel version.

*Material pressure: max. 8 bar*

*Output: 52 l/min*



# Material Distribution / Filtration

## LMV



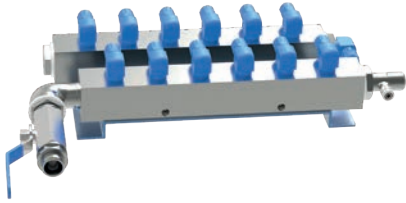
### SCHÜTZE Air Material Distributor LMV

The LMV air material distributors are made from stainless steel and can be designed for pressure ranges up to 8, up to 25 or up to 170 bar and as 4-way, 6-way or 8-way distributor.

The air material distributors can supply air and material for several devices in the application system via one main supply.

*Material pressure: 8 / 25 / 170 bar*

*Version: 4 / 6 / 8 -way*



## HD-Material Filter



### SCHÜTZE HD-Material Filter

The Schütze high-pressure material filter is made entirely from stainless steel and is therefore also suitable for use with aggressive fluids. The integrated backflow stop prevents the media from flowing back if the system pressure drops. The mesh size of the insert filter is 0.2 mm (200 µm).

*Material pressure: 100 bar*

*Options:*

- Filter with 100 µm
- Filter with 150 µm



## Inline-Filter



### SCHÜTZE Inline-Filter

The Schütze inline material filter are designed to fit all fluid lines up to a maximum pressure of 10 bar. They can be easily integrated within existing pipes. Therefore it is only necessary to cut the pipe and install the inline filter in between the two ends.

As required filter elements with different mesh are available (50, 100, 200 mesh). The filter housing is made from stainless steel.

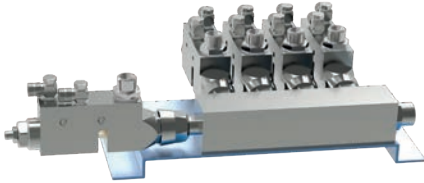


## Paint Changing Unit



### SCHÜTZE Paint Changing Unit

Specially developed for use in automated painting plants, the paint changing units enable the supply of one or more spray valves. They can be used to automatically switch between up to 6 different paints. In addition, there is a connection for a rinsing medium.



# Accessories

## MDR



### SCHÜTZE Material Pressure Regulator MDR

The MDR material pressure regulator are used for manual control of liquid pressure levels in pipe systems. The pressure regulator of MDR series are available in 3 different pressure ranges from 0-7 bar / 0-25 bar and 0-50 bar. The regulating ranges 0-7 bar and 0-25 bar can be operated with a maximum inlet pressure of 40 bar and the regulating range 0-50 bar with a maximum inlet pressure of 70 bar.

*Options:*

*- with or without manometer*

## HD-MDR



### SCHÜTZE Pressure Regulator HD-MDR

The material pressure regulators HD-MDR are used for manual control of liquid pressure levels in pipe systems. The HD-MDR pressure regulators can regulate a consistent outlet pressure between 20 and 150 bar at a maximum inlet pressure of 250 bar.

*Options:*

*- with or without manometer*

## PMDR 1:1



### SCHÜTZE PMDR 1:1

The 1:1 pneumatic material pressure regulators are used to regulate liquid pressure levels in pipe systems. With the PMDR 1:1 regulators, high inlet pressures of up to 40 bar can be reduced to the regulating range of 1 - 6 bar. Due to the possibility of pneumatic control via a proportional valve, the material pressures can also be regulated externally via a control system, for example PLC.

*Air inlet pressure: max. 6 bar*



## PMDR 5:1 / 10:1



## SCHÜTZE PMDR 5:1 / 10:1

The 5:1 and 10:1 pneumatic material pressure regulators are used to control liquid pressure levels in pipe systems. With the PMDR 5:1 and 10:1 regulators, high inlet pressures of up to 60 bar (5:1) or 70 bar (10:1) can be reduced to the control range in the respective transmission ratio. Due to the possibility of pneumatic control via a proportional valve, the material pressures can also be regulated externally via a control system, for example PLC.

*Air inlet pressure: max. 6 bar*

## Pressure Regulator



## SCHÜTZE Return Flow Pressure Regulator

Designed for use in circulation systems, back pressure regulators ensure that there is a constant pressure in the upstream pipe.

In this way, a constant material supply can be ensured even with several spray or extrusion valves connected in series.

*Adjustable pressure range: 0-7 bar*

## Control Valve



## SCHÜTZE Pre- / Post-Air Control Valve

To avoid a separate solenoid valve for the atomising air and to reduce additional control effort, the mechanical pre/post air control valves were developed.

The pre-air ensures that material emerging from the spray valve is immediately atomised. The post-air also has a purifying effect.

Depending on version, the pre/post air control valves can be used for up to 4 spray valves.

## Quick Release Adapter

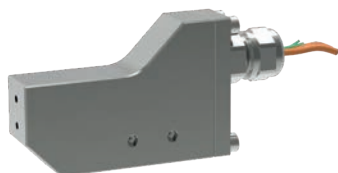


## SCHÜTZE Quick Release Adapter

For spray valves of series KA-2, KA-2/HD-IS, MSV, MVV, KA-2/PEEK and S-830 quick release adapter have been developed to minimize downtime.

If a spray valve has to be removed from machine or system f.i. for maintenance or repair, the use of a quick release adapter reduces the necessary time to a minimum by operating just a single lever. A handle releases the device from the holder and simultaneously blocks the material flow.

## Heating Housings



## SCHÜTZE Heating Housings

Suitable heating housings have been developed for all common SCHÜTZE valves such as KA-2, S-830, MMDD and the MKD, MKDD and MMKD series. These contain a heating cartridge and a temperature sensor and can easily be screwed onto the main body of the spray valve. An external temperature regulator is required to heat the device to the desired temperature and to influence the properties of the material to be applied. The heating elements are available in different performance classes and for different supply voltages.

# Nozzle extensions

## D4 / D6 / D8



### SCHÜTZE Nozzle Extensions D4 / D6 / D8

The compact nozzle extensions of series D4, D6 and D8 have been developed to ensure the usual good application with Schütze spray valves, even in very tight spaces.

These nozzle extensions are available for automatic devices (KA-2, MFS, ASV, MKD, MKDD,...) and for handheld devices (W3, W3-FZ-Duo,...). Different spray pattern (round spray pattern, flat spray pattern, circular spray pattern,...) as well as different lengths can be implemented.

In addition, single or multiple curved extensions or special profile nozzles are also part of the portfolio.



## D10



### SCHÜTZE Nozzle Extension D10

The standard D10 nozzle extensions have been developed for automatic devices (KA-2, MFS, ASV, MKD, MKDD,...) and the W3-FZ-Duo.

The different types:

- V-A (extension, angled spraying)
  - V-G (extension, straight spraying)
  - V-R (extension with circular spray pattern)
- can be used in a wide variety of application.

The D10 extensions are available in a wide range of different lengths.



## D13



### SCHÜTZE Nozzle Extension D13

D13 nozzle extensions are perfectly suited to the Schütze GF series spray valves, as well as the W1, W2, W7, S941 and S947 handheld units.

The different types:

- V-A (extension, angled spraying)
  - V-G (extension, straight spraying)
  - V-R (extension with circular spray pattern)
- can be used in a wide variety of application.

The D13 extensions are available in a wide range of different lengths.



D6



## SCHÜTZE Nozzle Extension D6 Full Jet

The D6 series full jet, needle-closing extensions present an addition to SCHÜTZE extrusion valves. They have been specially developed for application on hard-to-reach components. Due to their design, nozzle extensions of this series are also suitable for fast cycles and can be adapted to the desired requirements by means of nozzles with various diameter and application angle.

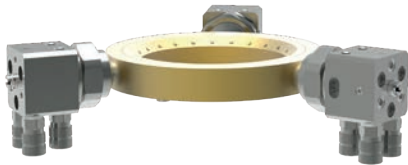


Inner Circular Spray



## SCHÜTZE Inner Circular Spraying Device

The inner circular spray pattern extensions are designed to spray (round) components from the outside without rotating the part to be sprayed or the spray valve itself. Various diameters and lengths are available and can be adapted as required.





# Customer-Specific Special Developments

## SPMA



### SCHÜTZE SPMA Spray Head

The SPMA spray head, consisting of a stainless steel supply body and 9 spray modules, was specially developed for the extensive application of UV coatings.

The individual modules can be easily replaced for maintenance while the supply body remains in the system.

The spray modules can be equipped with various nozzles and air caps to adapt the application pattern individually to customer-specific requirements.

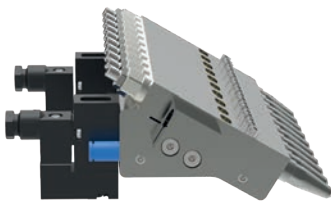


## CG-LV



### SCHÜTZE Bead Application Head CG-LV

Designed for the application of multiple parallel material beads, the CG series bead applicators consist of one or more supply bodies. Up to 10 MMKD/H extrusion valves can be used per supply body. The extrusion valves are controlled by solenoid valves, which are directly flanged to the supply body. The smallest possible nozzle centre distance between the extrusion valves is 15 mm.



## Marking Unit



### SCHÜTZE Marking Unit

Marking units consist of all necessary fittings and assemblies which are necessary for the material and/or air supply of Schütze marking valves (e.g. MMFS or KA-2 HD/IS). All components are mounted in a space-saving way on a profiled equipment carrier, which is designed to be hung on a wall. The unit's equipment is adapted to customer requirements (e.g. number of devices or degree of automation).



## Timer Unit



### SCHÜTZE Timer Unit

Developed to control spray valves without electronics, the pneumatic timer units combine all necessary components in a convenient housing.

The atomising air pressure can be regulated at the front of the unit.

Depending on the configuration, the application duration as well as the pre- and post air can be set. The spraying process is triggered with an air pulse by an external valve (e.g. foot pedal, hand valve,...).



