

# WALTHER PILOT



## Applying Adhesives and High-Viscosity Media



The Coatings Experts

## Building blocks for your success

- State-of-the-art production standards ensure unwavering precision and, as a result, maximum benefit to the customer.
- Our products conserve materials and protect the environment. If required, our technical laboratory will conduct the research necessary to identify the atomizing technology best suited to spraying a given adhesive.
- We guarantee that replacement parts will be available for ten years.
- We offer a wide range of models to meet the needs of as many applications as possible. Our many years of experience in all aspects of the industry will help you choose the best products for your needs.
- WALTHER PILOT will be happy to answer all your questions on application technology, material delivery, operating automatic spray guns, overspray filtration etc. Complete systems that can cope with the highest demands in regard to process reliability and long service life are available, built to your specifications.
- We can help you reduce your costs: please contact us to learn more.
- We are your reliable partner, developing long-term solutions and offering a strong after-sales service: please contact us to find out more.



The company headquarters and the spray gun production department are located in Wuppertal-Vohwinkel. Spray guns have been manufactured here since 1923.



WALTHER PILOT research laboratory



Tanks, overspray filtration systems and spray booths are just some of the products manufactured at the Neunkirchen-Struthütten factory. WALTHER PILOT is a market leader for material pressure tanks.

WALTHER PILOT is a member of the Wagner Group.

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# Solutions from a system supplier



Pressure tanks in several sizes and models



Diaphragm and piston pumps to transfer material from hobbicks, drums and containers



Wide range of spray guns and application tools



Complete systems for solvents and high-viscosity media



Energy-saving spray booths

WALTER PILOT provides perfect solutions for every aspect in adhesive spraying, including:

- Application technology
- Material delivery using pressure tanks or pumps
- Regulation using a pneumatic or electronic control unit
- Conveyor components
- Overspray filtration systems



- Cut costs
- Protect the environment
- Ensure quality

Application technologies that save materials and protect the environment are particularly important to us. Spray booths generally offer high potential for energy savings. Order our special brochure or contact us for further information.

# Spray guns for solvent-based adhesives

## Low-emission spraying for solvent-based adhesives

WALTHER PILOT offers spray guns that are matched exactly to the characteristics of the adhesive in order to offer the perfect application technique. That both boosts process reliability and reduces material consumption.

- Expert advice regarding spray gun type, nozzle size, atomizing pressure, delivery systems etc.
- Savings potentials by using adhesives with high solids content
- Special air cap technology: material deposits on the air cap are minimized
- Better compliance with VOC regulations



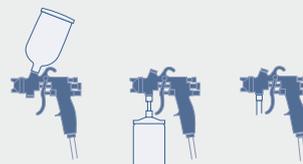
## PILOT III-K

The PILOT III-K universal spray gun is intended exclusively for use with solvent-based adhesives. It has proven its qualities in the upholstery industry and for lamination adhesives in the automotive industry. Special HS (high solid) or SHS (super high solid) air caps are available for use with high-solids adhesives. The gun body is PTFE-coated for easier cleaning.

**Rotary jet nozzle insert options:**  
1.0 / 1.5 / 1.8 / 2.0 mm diam.

Also available with wide-to-round jet nozzle insert

Connection options



## PILOT WA XV

Fully automatic spray gun for all common solvent-based adhesives. All wetted parts are made of stainless steel. Special HS (high solid) or SHS (super high solid) air caps are available for use with high-solids adhesives.

**Rotary jet nozzle insert options:**  
1.0 / 1.5 / 1.8 / 2.0 / 2.5 mm diam.

Also available with wide-to-round jet nozzle insert

Recirculation model: PILOT WA XV-U



Rotary jet nozzle inserts are the best option for atomizing solvent-based adhesives. A broad range of nozzles is available for every spray gun. Wide or round jet systems can be used, depending on the required jet width. Standard air cap: wide jet.



## PILOT XIII

Heavy-duty spray gun for all standard adhesive spray assignments. Weight 760 g.

**Wide-to-round jet nozzle insert options:**  
 0.5 / 0.8 / 1.0 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 / 3.5 mm diam.

If required, the guns can be equipped with a rotary jet nozzle insert.

Material recirculation model: PILOT XIII-U.

Models with a gravity-feed cup or pressurized gravity-feed cup are also available.



Further spray gun models for use with solvent-based adhesives:

**PILOT Maxi-K**  
**PILOT Mini-K**



## PILOT WA 703-K

Automatic spray gun series for all standard adhesive spray assignments. The guns are available with or without internal control, depending on production requirements. The front body and all the wetted parts are made of stainless steel.

**Wide-to-round jet nozzle insert options:**  
 0.5 / 0.8 / 1.0 / 1.2 / 1.5 / 1.8 / 2.0 / 2.2 / 2.5 mm diam.

More automatic spray gun models available on request



## PILOT WA 870-K

These automatic spray guns are equipped with special nozzle and air cap systems suitable for spraying adhesives. All the wetted parts are made of stainless steel. The gun can be used with all standard adhesives. Available with internal or external control. With quick-change adapter plate.

Also available as recirculation model: **PILOT WA 871-U-K**



## PILOT Signier

Automatic spray gun for the precise application of adhesives (e.g. edge gluing). With internal control. Further models available on request.

# HVLP spray guns for dispersion adhesives

## HVLP: ideal for dispersion adhesives

The PILOT low-pressure spray guns (HVLP) are particularly suitable for use with water-based materials. The atomization process produces a droplet spectrum that ensures excellent coverage. The wetted parts are made of stainless steel. Large-volume material channels ensure that only short flushing times are necessary.

The highly efficient application process guarantees that the material is used economically.

We recommend using PILOT spray booths when spraying dispersion adhesives. This protects you from the health risks posed by the airborne aerosols that can be produced when these materials are atomized. Because the material is shear-sensitive, it should not be subjected to pulsation.

Pressure tanks are a good solution. WALTHER PILOT offers special tanks for using material from the original containers.

WALTHER PILOT's HVLP spray guns are extremely efficient, letting you save on material and protect the environment.



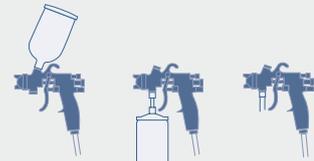
## PILOT Premium ND-K

Top-class HVLP spray guns for dispersion adhesives. All the wetted parts are made of stainless steel.

Ideal for the application of shear-sensitive media.

**Wide-to-round jet nozzle insert options:**  
0.5 / 0.8 / 1.0 / 1.2 / 1.5 / 1.8 / 2.0 / 2.2 / 2.5 mm diam.

Connection options



## PILOT XIII-ND

This HVLP spray gun is equipped with a stainless steel gun body. Very rugged model.

**Wide-to-round jet nozzle insert options:**  
0.5 / 0.8 / 1.0 / 1.2 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 mm diam.

Also available as recirculation version: PILOT XIII-ND-U

Models with a gravity-feed cup or a pressurized gravity-feed cup are also available.





## PILOT WA 923-ND-K

HVLP automatic spray gun series with quick-change adapter plate. The front section and all wetted parts are made of stainless steel. Two versions are available; one with internal control and one with external control.

**Wide-to-round jet nozzle insert options:**  
0.5 / 0.8 / 1.0 / 1.2 / 1.5 / 1.8 / 2.0 / 2.2 / 2.5 / 3.0 / 3.5 mm Ø



## PILOT WA 723 ND-K

HVLP automatic spray gun series for low-viscosity dispersion adhesives. The guns are available with or without internal control, depending on the production requirements. The front body and all the wetted parts are made of stainless steel.

**Wide-to-round jet nozzle insert options:**  
0.5 / 0.8 / 1.0 / 1.2 / 1.5 / 1.8 / 2.0 / 2.2 / 2.5 / 3.0 / 3.5 mm diam.

Further automatic spray gun models available on request

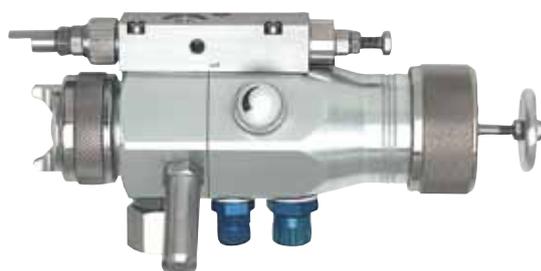
B component  
A component



## PILOT III 2K

Manual spray gun for two-component application. The components are mixed in the spray jet. PTFE-coated gun body for easy cleaning. All the wetted parts are made of stainless steel.

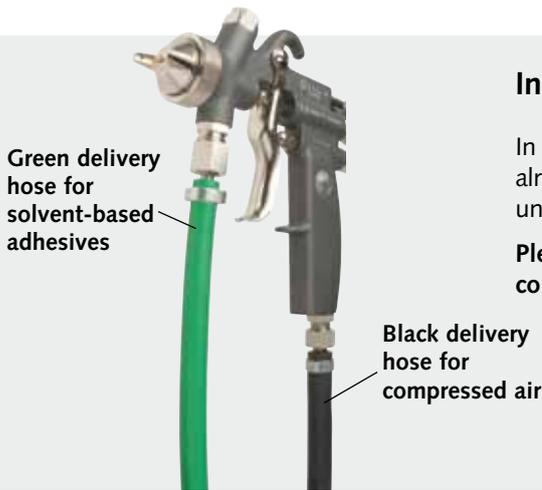
Easy to maintain. Lightweight: approx. 600g.



## PILOT WA 560 2K

Automatic spray gun for two-component application. The B component is fed through the flange-mounted spray gun. The components are mixed in the jet spray. All the wetted parts are made of stainless steel.

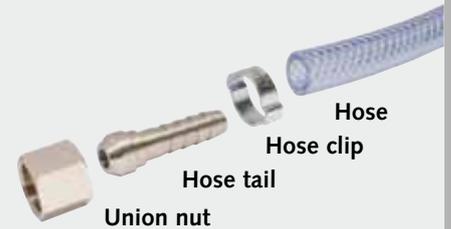
# Accessories for air-atomizing spray guns



## Information about hoses

In addition to the hose itself (please indicate the length, if not already given), you will need the hose clip, the hose tail and the union nut.

**Please note: only electrically conductive compressed air hoses may be used.**



## Hoses



### Air hoses

- Standard air hose (black) 8 mm I.D., 14 mm O.D.; hose tail 8 mm, brass; union nut 1/4" nickel-plated brass; hose clip 13/15

### Delivery hose for solvent-based adhesives

- Standard delivery hose (green), 8 mm I.D., 14 mm O.D.; hose tail 8 mm, stainless steel; union nut 3/8", nickel-plated brass; hose clip 15/17

### Synflex delivery hose (especially for automatic applications)

- 8 mm I.D., 10 mm O.D.; hose tail 8 mm, stainless steel; union nut 3/8", nickel-plated brass; hose clip 9/11

### Delivery hoses for dispersion adhesives

- PVC delivery hose, 13 mm I.D., 20 mm O.D., hose tail, stainless steel, with union nut 1/2", hose clip 17/20
- PVC delivery hose, 10 mm I.D., 15 mm O.D.; hose tail 11 mm, stainless steel; union nut 3/8", nickel-plated brass; hose clip 15/18

## Other accessories



### Double ball swivel coupling

- Exceptionally easy to use due to three-dimensional operation. Maximum freedom of movement in all directions.

### Ball swivel coupling nipple (not shown)

### Couplings for compressed air

- Models available to match different hose thicknesses – steel or brass. The couplings are swivel joints.

### Gravity-feed cups

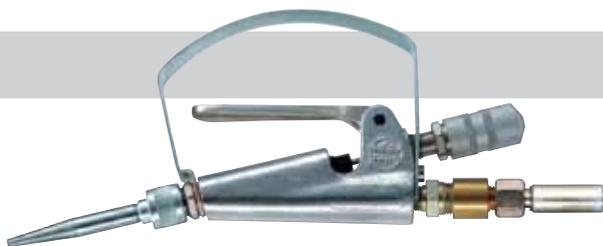
- Standard plastic gravity-feed cup (600 cc)

### Nozzle inserts and repair kits

- Available on request. 10-year guarantee for the availability of PILOT spray gun replacement parts.

### Spray gun lube, 5 g

# Extrusion guns



## PILOT extrusion gun

The PILOT extrusion gun is equipped with a tapered nozzle so that the application rate can be adjusted as required. For high-viscosity adhesives and sealants. Max. pressure: 350 bar.

**Available nozzle sizes:**  
1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 6.3 mm diam.



## PILOT WA 95 extrusion gun

Automatic applicator gun. Max. material pressure 50 bar.

**Available nozzle sizes:**  
1.0 / 2.0 mm diam.



## PILOT WA 96 extrusion gun

Automatic extrusion gun with diaphragm seal – particularly suitable for use with moisture-curing, polyurethane-based materials and other critical media.

- Max. material pressure 4 bar with 3/2-way valve
- Max. material pressure 20 bar with 5/2-way valve

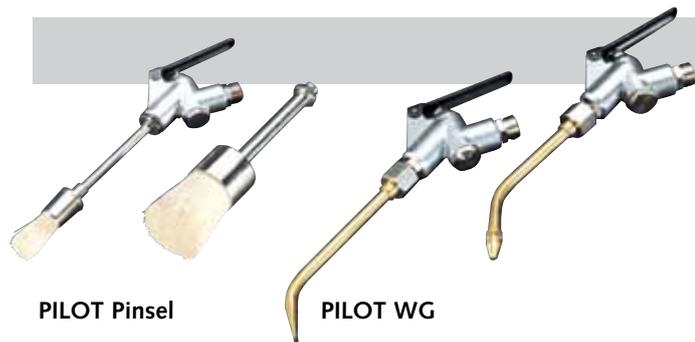


Also available with brush

## PILOT Premium extrusion gun

Particularly suitable for the application of PVA glue, putty and other paste-like media. All the wetted parts are made of stainless steel. Max. material pressure: 8 bar.

**Available nozzle sizes:**  
1.0 / 1.5 / 2.0 / 2.5 / 3.0 mm diam.



PILOT Pinsel

PILOT WG

## PILOT Pinsel / PILOT WG

PILOT Pinsel: available with hair brush

- 11 mm
- 15 mm
- 16 mm
- 20 mm
- 40 mm

PILOT WG:

- With nozzle pipe 150 mm and slotted nozzle
- With nozzle pipe 150 mm and round nozzle

# Material pressure tanks



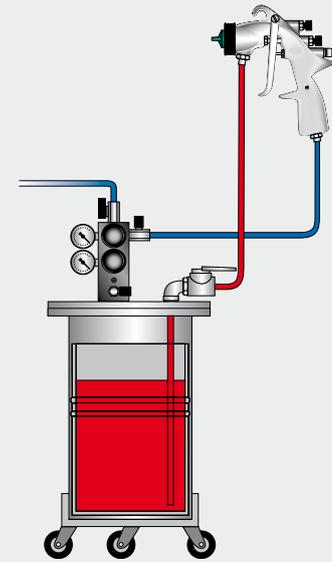
**Material pressure tanks offer decisive advantages when using spray guns to apply adhesives.**

- Safe and secure material storage
- Pulsation-free material delivery (particularly important for shear-sensitive materials)
- No hardening
- Easy working from the original containers (MDG 22 und 45)

## € A seal promising safety all round

The Pressure Equipment Directive 97/23/EC regulates the design, inspection, approval, and marketing of pressure tanks and other pressurized devices in all the member states of the European Union.

Our conformity assessment procedures in accordance with Directive 97/23/EC ensure that we can be highly flexible in accommodating even the most specific customer wishes.



**Material pressure tanks are ideally suited for a wealth of system configurations. They guarantee product solutions that match your needs exactly. See also p. 14 below.**

## MDG series material pressure tanks



**Small material pressure tanks MDG 1, 2 and 4 in stainless steel**

For supplying adhesives to spray guns. Standard and special tanks for all kinds of requirements. The tanks (except MDG 1, 2, 3) are available in galvanized or stainless steel models (all common stainless steel grades).



**MDG 22**

**MDG 45**

Tank model	Capacity	Max. pressure
MDG 1	1.1 liter	3 bar / 6 bar
MDG 2	1.8 liter	3 bar / 6 bar
MDG 3	2.5 liter	3 bar / 6 bar
MDG 4	3.1 liter	4 bar / 6 bar
MDG 8	6.4 liter	4 bar
MDG 12	11.8 liter	6 bar
MDG 22	19.5 liter	6 bar
MDG 24	23.5 liter	6 bar
MDG 45	42.5 liter	4 bar / 6 bar
MDG 60	58.5 liter	3 bar / 6 bar
MDG 90	90 liter	2 bar / 6 bar
MDG 120	120 liter	1.5 bar / 6 bar
MDG 250	248 liter	6 bar

### Convenient working from original containers

Tank models MDG 22 or MDG 45 are recommended for use with the standard 10 and 30 liter shipping containers. These containers are placed directly into the tank, thus eliminating the need for time-consuming transfer procedures and reducing the effort required for cleaning.

## LDG series



These lightweight, thin-walled pressure tanks are made completely of stainless steel and are designed for a maximum pressure of 6 bar. The tanks are fitted with hinged cross-grip locks for quick and easy opening.

The LDG 5 and LDG 10 pressure tanks, with the outlet at the top, are supplied with an integrated inliner.

Model	Capacity
LDG 5	3,5 liter
LDG 10	9 liter
LDG 20	15 liter

## Inliners for LDG 5 and 10



Inliners lie like a skin on the pressure tank's inside surface and effectively protect it from contamination. As soon as the inliner reaches the maximum degree of soiling it can be easily replaced with a new one. This eliminates any need for cleaning agents and for costly, labor-intensive tank cleaning work. Only the pipe to the material outlet, the agitator shaft and the impeller elements need to be cleaned.

The inliners are made of thin but very strong polypropylene and can be used with all common solvent-based products.

## Spraying system for small quantities



Complete spraying system for almost all media, including dispersion adhesives.

Consisting of:

- LDG 5 material pressure tank, stainless steel, without agitator
- Integrated inliner
- 5 m set of hoses
- HVLP spray gun

Additional pressure tank sizes: 10 and 20 liter capacity

## Accessories



Compressed air inlet fitting with a second pressure regulator for connection to a spray gun



Fluid level sensors (limited use with the LDG series)



Insert bucket (galvanized or stainless steel) for all material pressure tanks from MDG 8 upwards



Material distributor for connection to a second spray gun



Trolleys, available on request for MDG 12, 22, 24, 45, 60, 90, 120

# Dual diaphragm pumps

## PILOT MBP Series

The economical dual diaphragm pumps in the extensive PILOT MBP product family deliver the adhesive at constant pressure.

Low running speeds ensure gentle transport (important when using shear-sensitive materials).

Available as a pump only or with wall console, trolley or stand

## Housing versions

- Electrically conductive acetyl housing. Particularly suitable for use as a transfer pump. Can be used with a wide range of materials.
- Housing made of Ryton
- Stainless steel housing. Highly resistant to corrosion and abrasion. Particularly suitable for use with water-based materials.



## MPB 2812

- Delivery rate: max. 28 l/min
- Fluid connector: 1/2"
- Pressure ratio: 1:1
- Air inlet pressure: max. 8 bar
- Stainless steel ball and seating ring, PTFE diaphragm
- Housing versions: stainless steel, acetyl



## MPB 5212

- Delivery rate: max. 52 l/min
- Fluid connector: 1/2"
- Pressure ratio: 1:1
- Air inlet pressure: max. 8 bar
- Stainless steel ball and seating ring, PTFE diaphragm
- Housing versions: Ryton, stainless steel, acetyl



## MPB 8034

- Delivery rate: max. 80 l/min
- Fluid connector: 3/4"
- Pressure ratio: 1:1
- Air inlet pressure: max. 8 bar
- Stainless steel ball and seating ring, PTFE diaphragm
- Housing versions: Ryton, stainless steel, acetyl



## MPB 1821

- Delivery rate: max. 182 l/min
- Fluid connector: 1"
- Pressure ratio: 1:1
- Air inlet pressure: max. 8 bar
- Stainless steel ball and seating ring, PTFE diaphragm
- Housing versions: acetyl



## Wagner Unica diaphragm pump

- Delivery rate: max. 270 l/min
- Fluid connector: 3/4"
- Pressure ratio: 4.5:1
- Air inlet pressure: max. 6 bar
- Stainless steel ball and seating ring, PTFE diaphragm
- Housing design: stainless steel

# Piston pumps



## PILOT Vesir low-pressure piston pumps

- For use with low-viscosity materials  
Available with wall bracket or as a pump for use with 200 liter drums
- Versions:
  - Vesir N (all wetted parts: steel)
  - Vesir R (all wetted parts: stainless steel)
- Pressure ratios: 1:1 to 12:1
- Maximum displacement supplied per dual stroke up to 600 cc, depending on the model

## PILOT Vesir low-pressure drum pumps

Volume displaced per dual stroke: 200 cc	<b>Vesir 200.01 N</b>	Pressure ratio: 1 : 1	short/long version
	<b>Vesir 200.01 R</b>	Pressure ratio: 1 : 1	short/long version
Volume displaced per dual stroke: 100 cc	<b>Vesir 100.02 N</b>	Pressure ratio: 2 : 1	short/long version
	<b>Vesir 100.02 R</b>	Pressure ratio: 2 : 1	short/long version

## PILOT Vesir low-pressure pumps

Volume displaced per dual stroke: 150 cc	<b>Vesir 150.03,5 N</b>	Pressure ratio: 3.5 : 1	short/long version
	<b>Vesir 150.03,5 R</b>	Pressure ratio: 3.5 : 1	short/long version
	<b>Vesir 150.05,5 N</b>	Pressure ratio: 5.5 : 1	short/long version
	<b>Vesir 150.05,5 R</b>	Pressure ratio: 5.5 : 1	short/long version
	<b>Vesir 150.08 N</b>	Pressure ratio: 8 : 1	short/long version
	<b>Vesir 150.08 R</b>	Pressure ratio: 8 : 1	short/long version
Volume displaced per dual stroke: 375 cc	<b>Vesir 150.015,5 N</b>	Pressure ratio: 15 : 1	short/long version
	<b>Vesir 150.015,5 R</b>	Pressure ratio: 15 : 1	short/long version
	<b>Vesir 375,03 N</b>	Pressure ratio: 3 : 1	short version
	<b>Vesir 375,03 R</b>	Pressure ratio: 3 : 1	short version
	<b>Vesir 375,05 N</b>	Pressure ratio: 5 : 1	short version
	<b>Vesir 375,05 R</b>	Pressure ratio: 5 : 1	short version
Volume displaced per dual stroke: 600 cc	<b>Vesir 375.09,5 N</b>	Pressure ratio: 9.5 : 1	short version
	<b>Vesir 375.09,5 R</b>	Pressure ratio: 9.5 : 1	short version
	<b>Vesir 600.03 N</b>	Pressure ratio: 3 : 1	short version
	<b>Vesir 600.03 R</b>	Pressure ratio: 3 : 1	short version
	<b>Vesir 600.06 N</b>	Pressure ratio: 6 : 1	short version
	<b>Vesir 600.06 R</b>	Pressure ratio: 6 : 1	short version
	<b>Vesir 600.12 N</b>	Pressure ratio: 12 : 1	short version
	<b>Vesir 600.12 R</b>	Pressure ratio: 12 : 1	short version

## Other pump models

High-volume pumps for long delivery lines and viscous media, including models for some water-based laminating adhesives



# Spraying systems for solvent-based adhesives

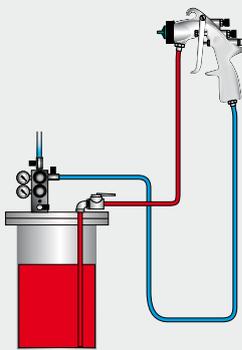


## PILOT Klebond L

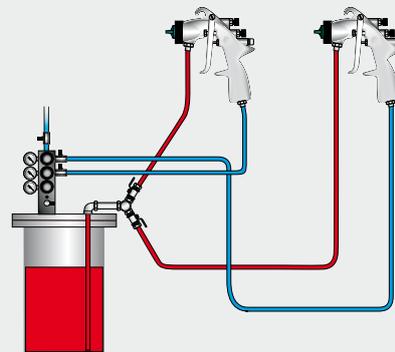
Consisting of:

- Material pressure tank MDG 22 or MDG 45, galvanized, without agitator
- PILOT III K spray gun
- Compressed air inlet fitting with additional pressure reducer for the spray gun
- 5 m hose set
- Available with trolley on request

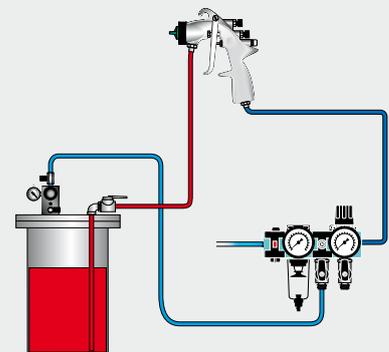
Both pressure tanks are suitable for use with the original shipping containers. These containers are placed directly into the tank, thus reducing the effort required for cleaning.



Standard model



Standard model with double outlet valve for connecting two spray guns



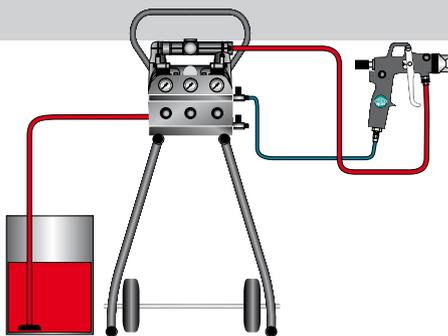
Model with separate filter/compressed air regulator

## Mobile adhesive supply systems

For use with solvent-based adhesives. With diaphragm pumps for use with small containers.

Consisting of:

- Spray gun as required
- MBP 5212 diaphragm pump, see p. 12 for housings
- Set of hoses
- Trolley



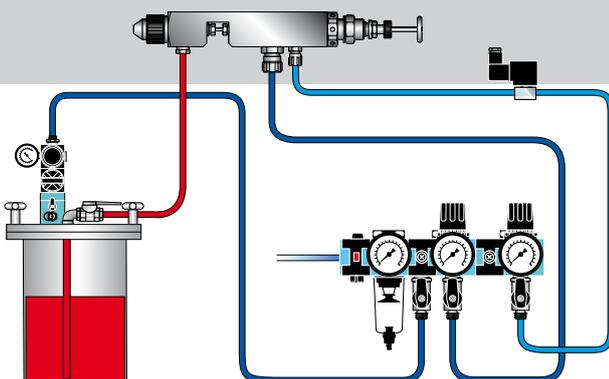
## Spraying system for high-precision adhesive spraying

Consisting of:

- PILOT Signier automatic spray gun
- Material pressure tanks MDG 1, 2 or 4
- Set of hoses

Options:

- Compressed air supply
- Solenoid valve

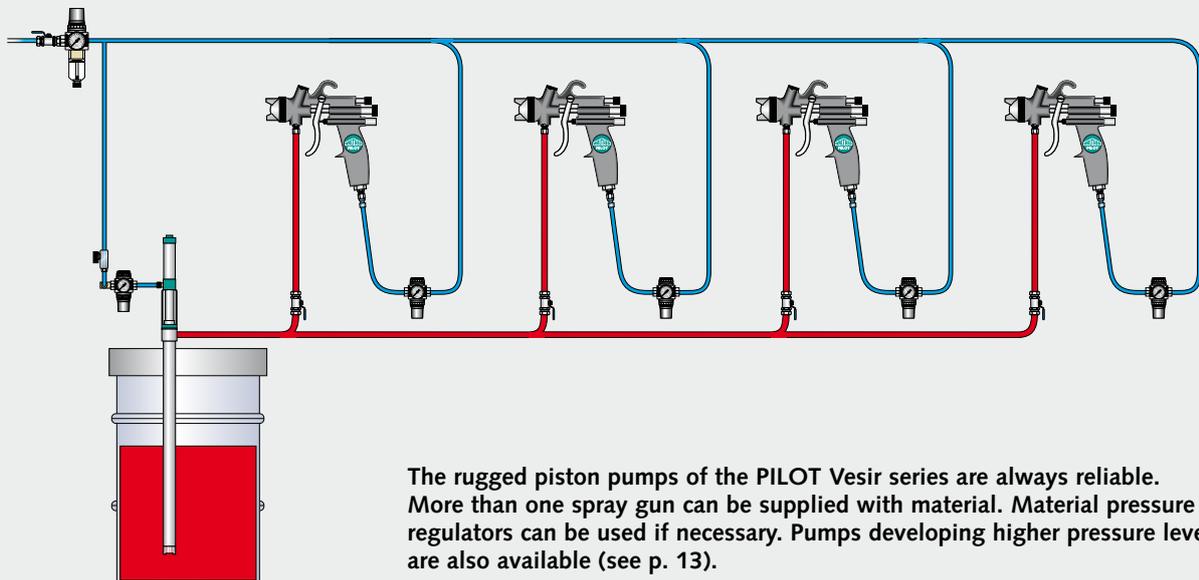
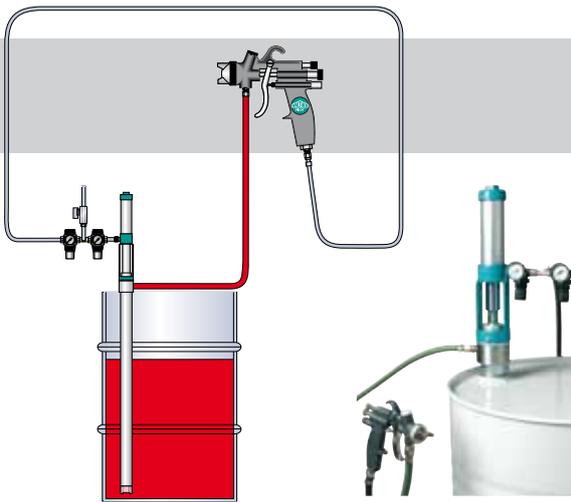


## Adhesive spraying systems with pump

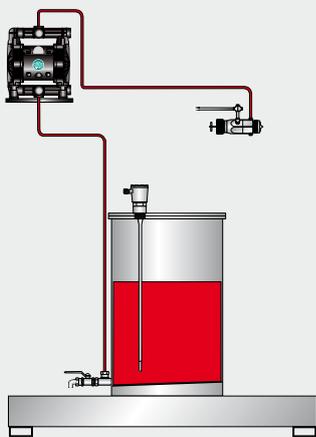
For 200 liter bunghole barrels

Consisting of:

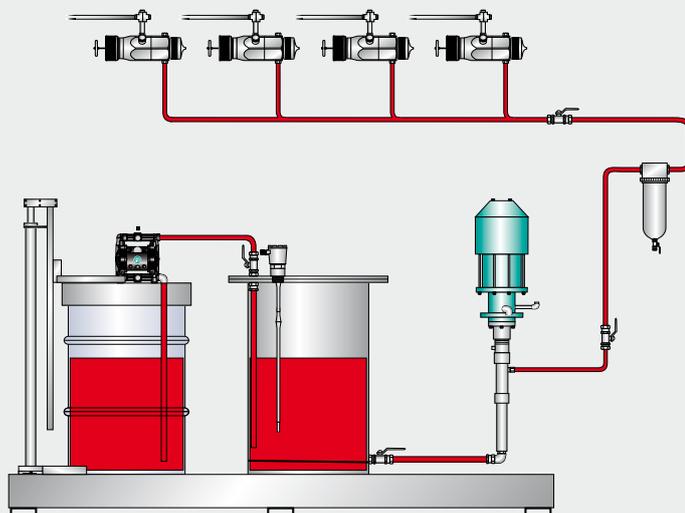
- Adhesive spray gun (e.g. PILOT III-K or the automatic model: PILOT WA XV)
- Vesir pump with attached pressure reducer
- Set of hoses for air and material, including all connectors



The rugged piston pumps of the PILOT Vesir series are always reliable. More than one spray gun can be supplied with material. Material pressure regulators can be used if necessary. Pumps developing higher pressure levels are also available (see p. 13).



**Automatic application:** When handling larger quantities of material one may use either the original shipping container or a separate process container.



Shipping containers and process containers for continuous material delivery. We also supply steel sumps with grid.

# Spraying systems for dispersion adhesives

## PILOT Klebond D



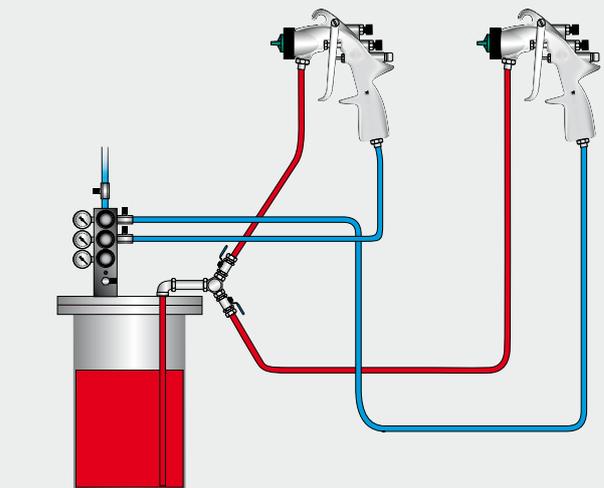
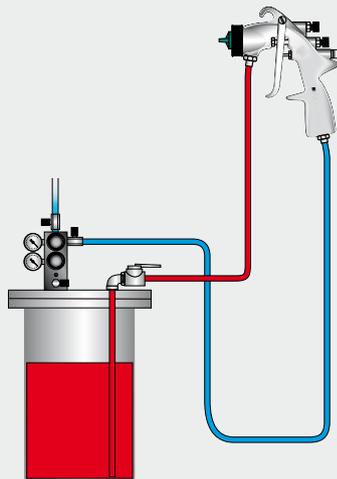
For shear-sensitive materials like these, the material should be delivered from a pressure tank.

Consisting of:

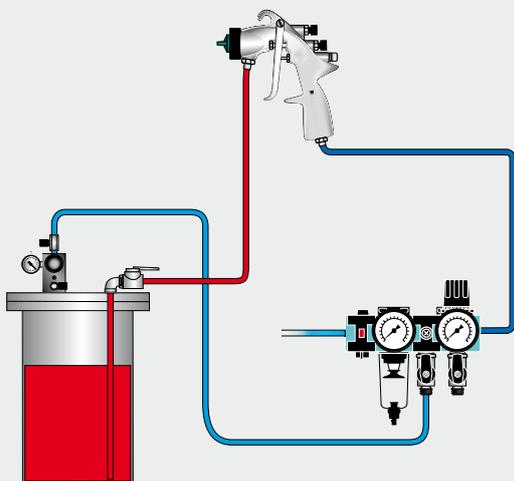
- MDG 22 or MDG 45 material pressure tank, stainless steel, no agitator
- PILOT Premium ND-K spray gun (PILOT Premium ND-K, PILOT XIII-ND)
- Compressed air inlet fitting with additional pressure reducer for the spray gun
- 5 m set of hoses
- Optional trolley
- Additional precision valve for fine adjustment of compressed air

Both pressure tanks are suitable for use with original shipping containers. Special system configurations are available on request.

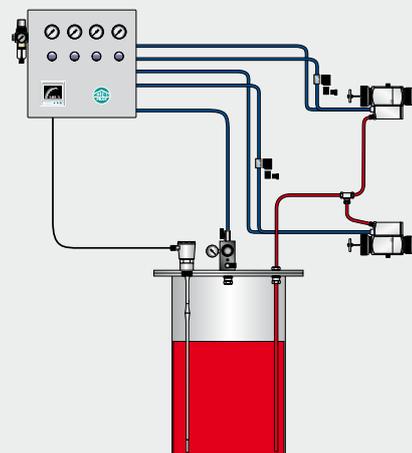
**Standard model:**  
A stainless steel container is recommended for use with water-based materials, unless you are working from the original shipping containers. In this case, it is important to ensure that the wetted parts (e.g. the pipe to material outlet) are made of stainless steel.



**Standard model with double outlet valve for connecting two spray guns**



**Model with separate filter and pressure regulator**

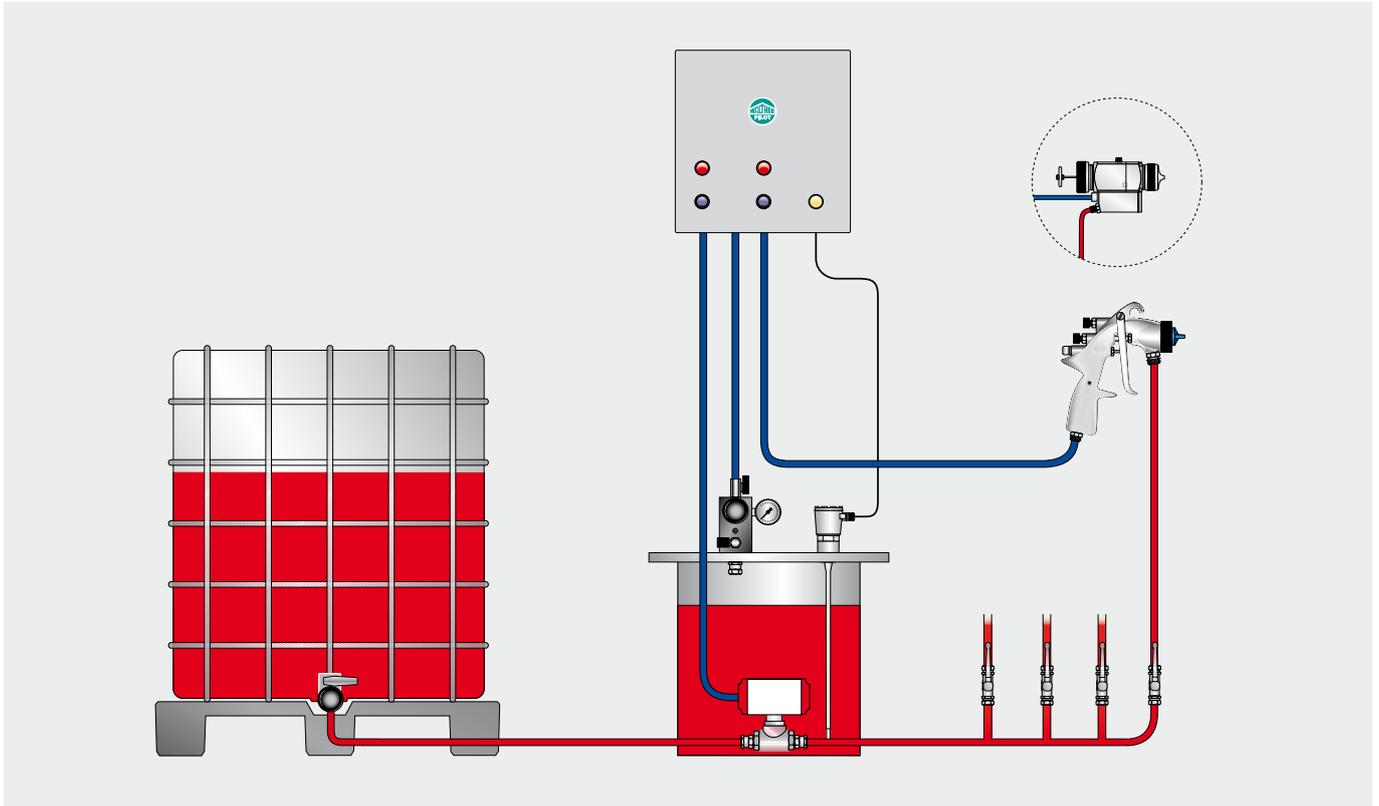


**Adhesive applications with two automatic spray guns connected to a quick-change adapter plate**

## Easy Flow delivery system

Even when using shear-sensitive adhesives, it is possible to supply the material from one central point. There is no need for pumps to empty the containers. Thanks to a specific WALTHER PILOT automatic filling device the material is moved to the workstations by simply using a pressure tank.

Interruptions to the production process are avoided and it is possible to simultaneously supply several workstations with material.



Easy Flow works entirely without pumps and is therefore particularly suitable for use with shear-sensitive adhesives. The pressure tank is refilled automatically when the fluid level is down to a minimum. A maximum of 10 workstations can be supplied with material. Supply lines may be as much as 25 m long.

The system not only conserves material and is VOC free. It is also particularly energy efficient since no pumps are needed.

Consisting of:

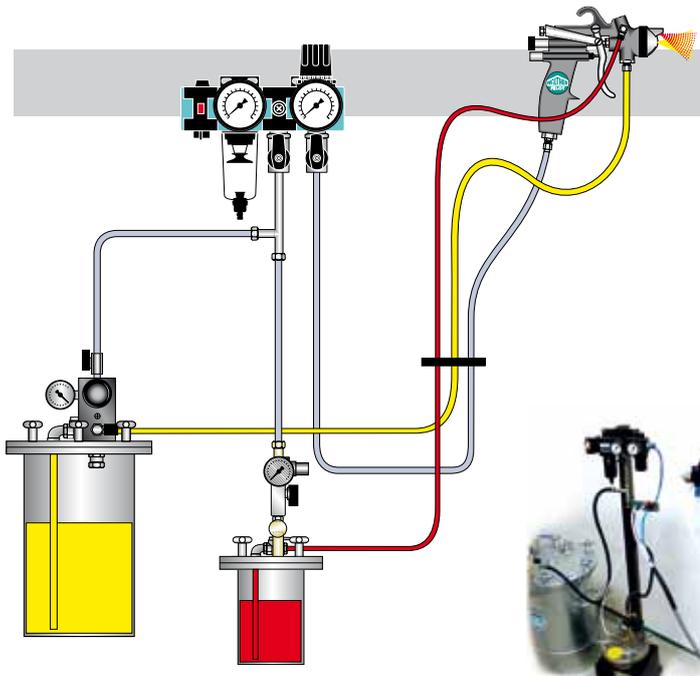
- Switchgear cabinet
- Pressure tank with fluid level sensor integrated into the lid
- Pneumatically controlled ball valve

Options:

- PILOT Premium ND-K spray gun (all the wetted parts are made of stainless steel)
- Hose set
- Compressed air supply



# Spraying systems for two-component dispersion adhesives

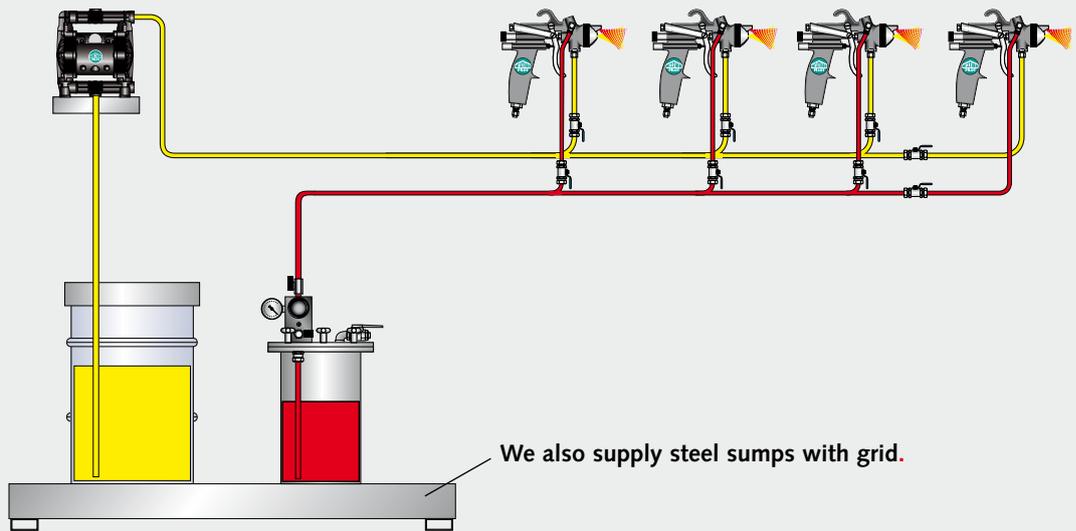


## PILOT Klebond 2K

Consisting of:

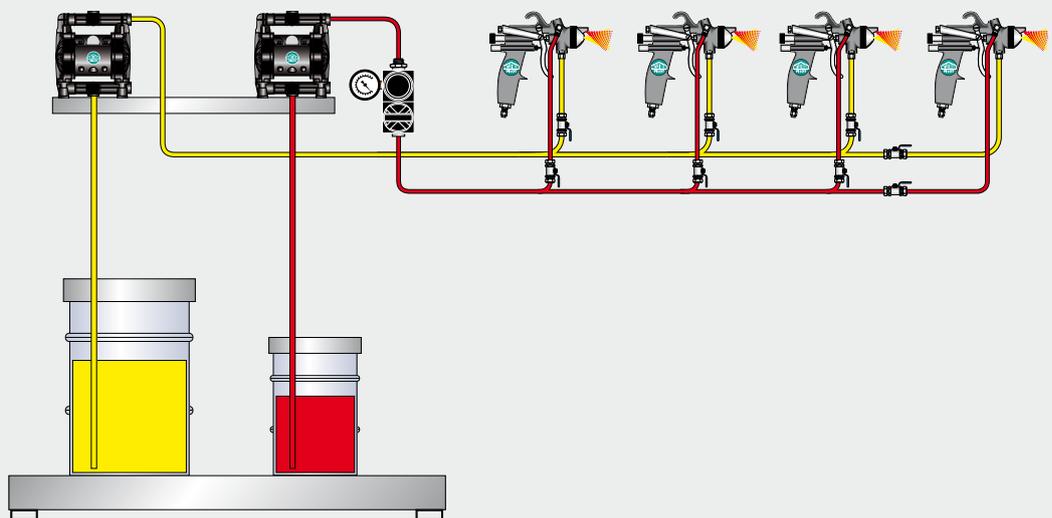
- MDG pressure tank for the A component
- MDG pressure tank for the B component
- PILOT III-2K spray gun
- Model H2 compressed air regulator with filter and T-piece for compressed air supply to both containers and the spray gun
- Assorted hoses
- Hose protector

We will be pleased to advise you about your individual system configuration. All parts are available from WALTHER PILOT.



System design with pumps for the A component and MDG pressure tank for the B component

We also supply steel sumps with grid.



System design with pumps for both components. A material pressure regulator is available for the B component.



## PILOT Klebond 2K

This spraying system is particularly suitable for use as a demonstration model or wherever small quantities of material need to be sprayed.

Consisting of:

- MDG 2 pressure tank, stainless steel, for component A
- MDG 1 pressure tank, stainless steel, for component B
- PILOT III 2K spray gun
- 3 m set of hoses
- Support frame

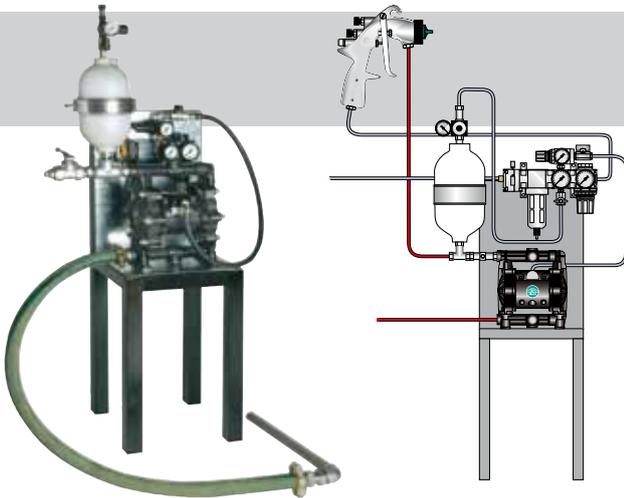


## PILOT RatioMaster

PILOT RatioMaster works so precisely because its basic principle is very simple: a hose pump supplies the adhesive and the activating agent. The mixing ratio is set by the hose diameters and the spray gun configuration (nozzle diameters for the A and B components). The pump supplies both components at equal volumes. The material throughput can be controlled by the user. Because the pump is controlled by the atomizing air for the spray gun, it shuts off automatically at the end of the spraying process.

The device must not be used with solvent-based adhesives.

## Other spraying systems



### Adhesive delivery system for lamination adhesives (polyurethanes)

With a diaphragm pump for use with drums of 30 liters and upwards and with tanks and containers. This system with its diaphragm pump and pulsation suppressor is specially suited for use with water-based lamination adhesives.

Wetted parts: stainless steel or plastic

Consisting of:

- Manual or automatic spray gun (HVLV models)
- Diaphragm pump MBP 8034, made of acetyl
- Pulsation suppressor
- Filter and pressure regulator type A
- Hose set



### Application system for PVA glue

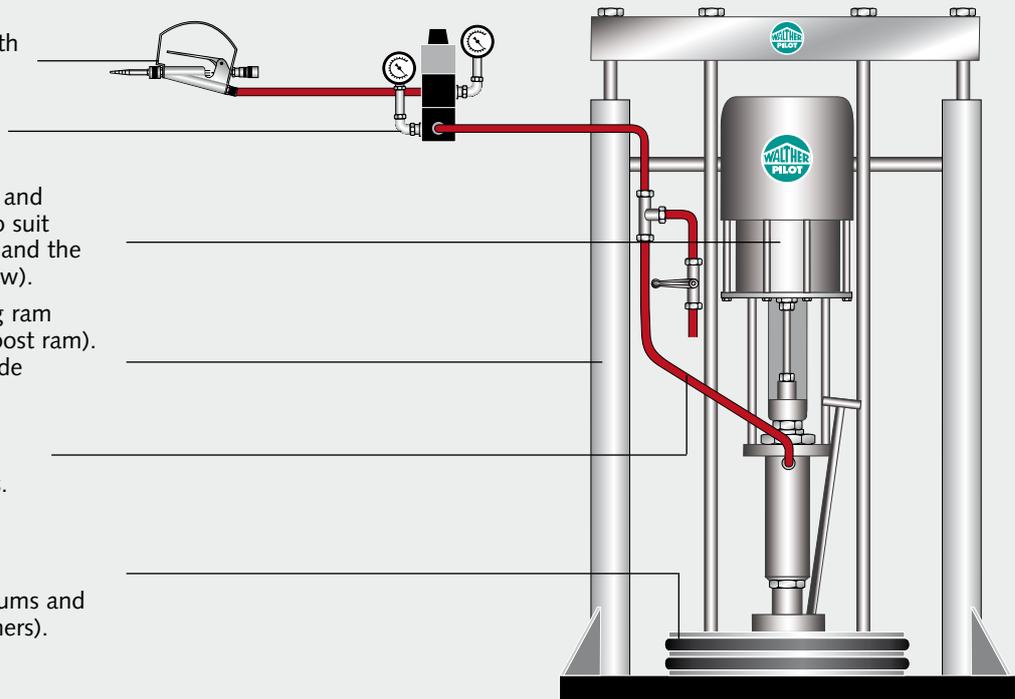
Consisting of:

- LDG 10 material pressure tank, stainless steel, without agitator
- 5 inliners
- Hose set with all connectors
- PILOT Premium extrusion gun

# Delivery systems for high-viscosity media

## System design with many advantages

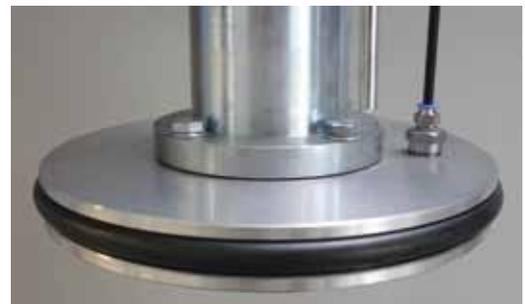
1. Extrusion valve for use with a large range of materials
2. Material pressure regulator for uniform delivery rate of material
3. Choose the pressure ratio and pump displacement rate to suit the nature of the material and the amount required (see below).
4. Choose the corresponding ram press unit (single or dual-post ram). We will be happy to provide consulting support.
5. We also offer material hoses suitable for high material pressures.
6. Follower plates for constant product flow are available for all drum sizes (200 liter drums and 20, 30 and 60 liter containers).



## PILOT extrusion pumps

(also available in stainless steel)

Model	Pressure ratio	Displacement	Max. operating pressure
49.16	16 : 1	49 cc	128 bar
49.25	25 : 1	49 cc	200 bar
49.45	45 : 1	49 cc	360 bar
78.16	16 : 1	78 cc	128 bar
78.25	25 : 1	78 cc	200 bar
78.45	45 : 1	78 cc	360 bar
78.94	94 : 1	78 cc	470 bar
134.15	15 : 1	134 cc	120 bar
134.27	27 : 1	134 cc	216 bar
134.54	54 : 1	134 cc	432 bar
134.73	73 : 1	134 cc	474 bar
269.13	13 : 1	269 cc	104 bar
269.27	27 : 1	269 cc	216 bar
269.36	36 : 1	269 cc	288 bar
269.62	62 : 1	269 cc	403 bar
521.14	14 : 1	521 cc	112 bar
521.19	19 : 1	521 cc	152 bar
521.32	32 : 1	521 cc	256 bar
521.40	40 : 1	521 cc	320 bar
680.14	14 : 1	680 cc	112 bar
680.24	24 : 1	680 cc	192 bar
680.30	30 : 1	680 cc	240 bar



### Follower plates and follower lids for single-column or two-column cylinder ram press units

The pump unit is fitted with a follower plate matching the drum size being used.

We also offer flat follower plates for to recover the last bit.

Options: reinforced double seal ring, double wiper ring, PTFE coating, heating for follower plates (various power levels available).

Lift trucks for ram press units are available on request.



## Standard systems

Applications:

- Delivering raw materials for the production of adhesives and sealing compounds
- Delivering adhesives, sealing compounds and other viscous media.

These series are equipped with large-volume pneumatic motors. The pumps are especially suitable for providing a uniform supply of high-viscosity materials, even via longer delivery lines.

The pumps are suitable for use with various materials, including:

- Silicone
- Mastics
- Urethane
- Butylene

Heated systems are also available.



Pump unit with single-post ram for 20 to 60 liter drums including hose and PILOT extrusion gun



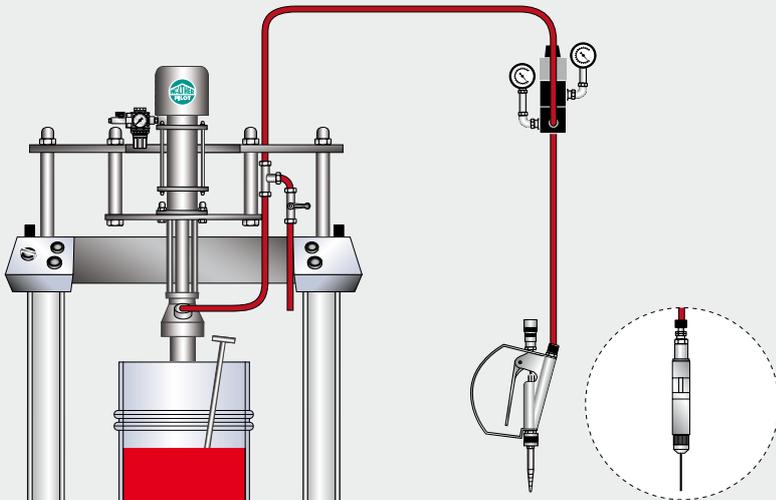
Pump unit with dual-post ram for 20 to 60 liter drums



Pump unit with dual-post ram for 200 liter drums. We also offer ram units with a particularly large cylinder diameter for use with very high-viscosity materials.

# Delivery systems for high-viscosity media

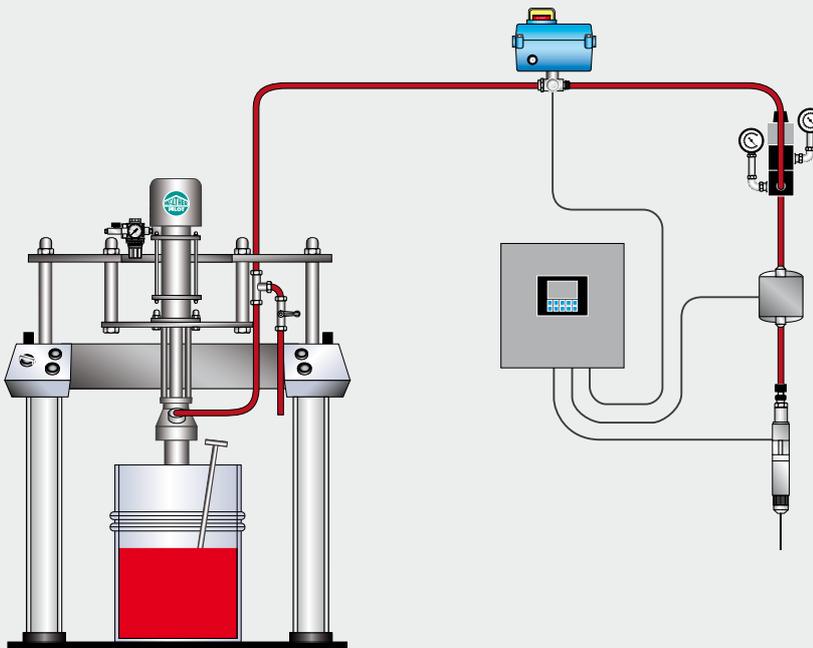
## Equipment for the most demanding assignments



Connection diagram for a supply and application system for viscous materials. Manual and automatic valves are available. Two-hand operation of the dual-post drum ram maximizes safety. Fluid level sensors can also be fitted.



All components are available from WALTHER PILOT. We will be happy to help you find the right solution for your production needs. A wide range of models with differing output capacities and pressure ranges is available for all your needs.



Connection diagram for a metering system with switchgear cabinet, electrically operated ball valve, material pressure regulator, volume meter and metering valve. Two-hand operation of the dual-post drum ram maximizes safety. Fluid level sensors can also be fitted.



## Built to customer specifications



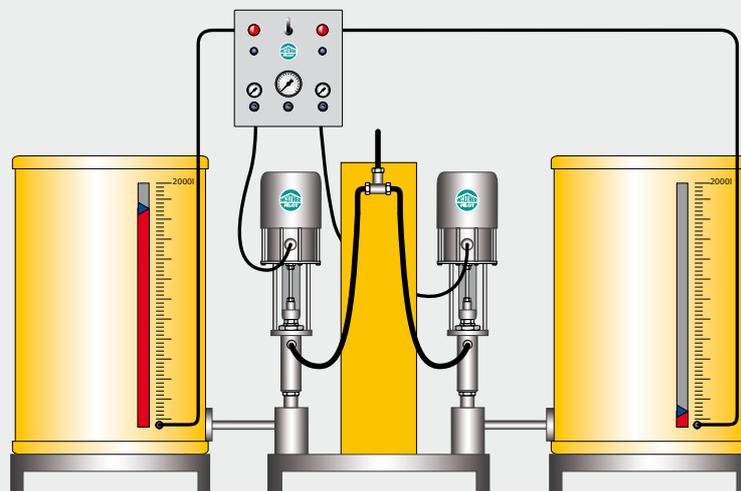
System for automatic, manual or jog mode operation. Two-handed operation for maximum safety. Fluid level sensors can be integrated. Follower plate heating available on request.



We build systems with your requirements and production needs in mind. Make an appointment with our technicians. They will be happy to spend as much time with you as you need. The result: rugged system solutions for reliable processes.



Pump unit on a stand with intake hose. This unit is intended for very high pressures and outputs and is used to empty special containers with follower plates.



# Overspray filtration systems

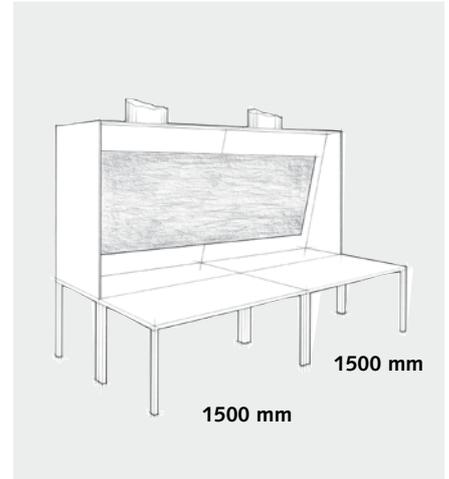
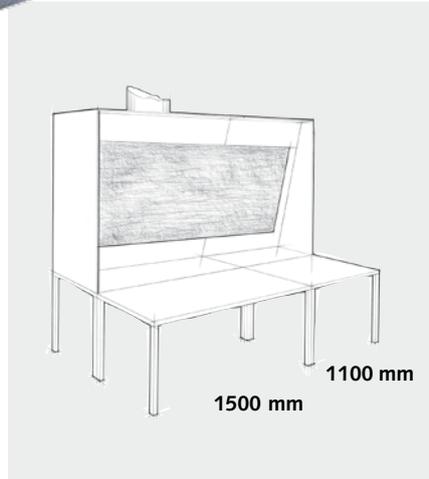
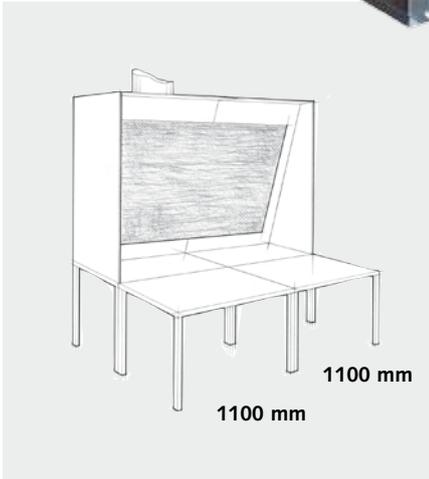


## Adhesive spraying table, Model 2000

The two basic elements of the 2000 series, 1100 and 1500 mm wide, can be combined as desired to produce any working width. Multi-layer arrestors are used as filters, guaranteeing long service lives and excellent filtration. Filter changes are quick, thanks to a hinged supporting framed. This frame also guarantees that the mat stays in place.

- Basic model: filtration system without base frame
- Optional: base frames or workbenches in the required sizes

The filter elements can be quickly changed.



The base frames and workbenches illustrated above are available as optional accessories.

### Dimensions and performance data, Model 2000

Model		2110	2115	2220	2225
Filter space width	mm	1000	1390	2000	2390
Working width	mm	1110	1500	2220	2610
Working height	mm	1200	1200	1200	1200
Total height with fan and optional workbench (800 mm tall)	mm	2710	2710	2780	2850
Depth	mm	750	750	750	750
Exhaust air volume	m <sup>3</sup> /h	2600	3900	5200	6500
Motor (400 V)	kW	0.75	0.75	1.35	2

Specifications are subject to change without notice.

### Optional:

- Rotating workpiece holder for positioning the object
- Motor circuit breaker or control unit
- Energy-saving device
- Lamps (explosion-proof or non-explosion-proof)
- Spray guns, material delivery
- Consumables: strippable coating, filter mats
- Exhaust air ducts
- Assembly

**Better for the environment,  
better for your health and safety**



## Adhesive spraying table, Model 25

WALTHER PILOT has developed special adhesive spraying tables for various adhesive spraying jobs. Labyrinth filters and fiberglass mats ensure double filtration, thus helping to protect the environment. Highly effective multi-layer paper filters may also be used.

The tables can be disassembled, thus keeping assembly costs low. All the parts will pass through normal doors.

WALTHER PILOT spraying tables for adhesive assignments are also available in stainless steel and in special sizes.

Working widths: 2500 mm (Size 1)  
 3300 mm (Size 2)  
 4500 mm (Size 3)  
 5500 mm (Size 4)



## Small spray booth, Model 700

Easy to use:

- Top-quality workmanship, attractive price
- The exhaust air duct may be connected on the left or right side.
- Hinged support frame for quick filter changes
- Rotating workpiece holder and lamps are sensible optional accessories.

Available working widths:

- 800 mm
- 1000 mm
- 1200 mm
- 1400 mm
- 2000 mm



### Energy-saving device

Hanging up the gun after spraying work causes a valve in the exhaust air duct to be closed. That reduces the exhaust air flow rate and in turn reduces the amount of energy needed to warm incoming air.

Dimensions and performance data, Model 700

Size		708	710	712	714	720
Working width	mm	800	1000	1200	1400	2000
Total width	mm	860	1060	1260	1460	2060
Total height without lamps	mm	1900	1900	1900	1900	1900
Work table height	mm	805	805	805	805	805
Working space height	mm	1065	1065	1065	1065	1065
Overall depth	mm	1000	1000	1000	1000	1000
Working depth	mm	675	675	675	675	675
Exhaust chamber depth	mm	541	541	541	541	541
Rack depth	mm	460	460	460	460	460
Motor (400 V)	kW	0.75	0.75	0.75	0.75	0.75
Exhaust air	m <sup>3</sup> /h	1850	2160	2580	3180	3460

Specifications are subject to change without notice.

### Optional:

- Rotating workpiece holder for positioning the object
- Motor circuit breaker or control unit
- Energy-saving device
- Lamps (explosion-proof or non-explosion-proof)
- Spray guns, material delivery systems
- Consumables: strippable coating, filter mats
- Exhaust air ducts
- Assembly

# Overspray filtration systems: examples

Adhesive spraying tasks during the production of TOPSTAR office furniture, where two-component dispersion adhesives are used. The system design, conceived in cooperation with the adhesive manufacturer, guarantees that the recirculating air is free of contaminants.



At TOPSTAR GmbH in Langenneufnach near Augsburg, Germany, four large and sixteen small adhesive spray booths have been installed to take care of specific operations. WALTHER PILOT also supplied special spray guns with double nozzles for use with two-component dispersion adhesives. The conversion to water-based media created a need for new, high-power filtration units with total capacities of 35,000 m<sup>3</sup>/h.

Recirculating the air contributes to major savings on heating costs. The air from all the spray booths is merged in three ducts, moved to the cellar using fans and then blown into the hall through an air distribution system.

This not only saves energy costs but also complies with the VOC regulations.

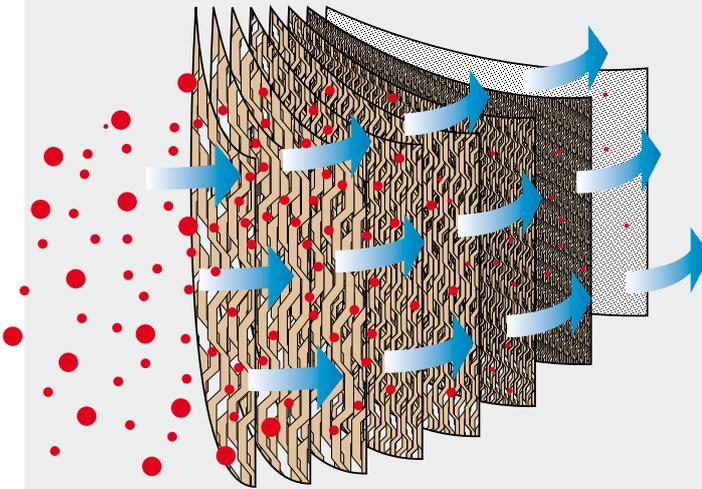


Space-saving booths for two workstations each



# Accessories: overspray filtration systems

## Multi-layer paper filters for overspray filtration



Multi-layer filter mats consist of superimposed layers of paper. The large number of openings lets air pass virtually unhindered.

- The arrangement of the layers of paper causes turbulence in the airflow, which promotes deposition of the solid particles.
- Long service lives thanks to "deep filtration". Build-up occurs evenly on all the sheets of paper.
- As opposed to fiberglass mats, no pre-filter sheets are required.



The mat can absorb a great deal of overspray before it needs to be changed.

## Strippable coatings / dust control



### White strippable coating

This water-based coating forms a white protective film that protects against deposits of adhesives and other media. Available in 10 or 20 liter jugs.

### Transparent strippable coating

Water-based coating, particularly suitable for protecting lamps and windows. Available in 5 or 10 liter jugs.

### Strippable floor coating

This white/beige strippable coating protects the workplace against dirt and overspray. Available in 20 liter jugs.

### Aluminum-faced cardboard

Available in rolls. Protects the workplace against dirt and overspray. Approx. 75 m<sup>2</sup> per roll, 1.20 to 1.50 m wide.

## Intake air filters



### Filter grade G3

- 592 x 592 x 200 mm
- 592 x 287 x 200 mm
- 287 x 592 x 200 mm
- 287 x 287 x 200 mm

### Filter grade F5

Rolls of 20 x 2 m or cut to size as required.

## Respiratory protection



### Disposable half mask with double filter

Ultra-lightweight full-face mask, that protects against gases, vapors and particles. Easy to use.

### PILOT 250 Respiratory protection half mask

Combination filter A1/P2 for half mask PILOT 250

# WALTHER PILOT

## Refilling cartridges saves money



The refill device is delivered together with the corresponding material transfer equipment. The system is easy to use and permits bubble-free cartridge filling. The cartridges can be emptied without leaving any residue behind. The system pays for itself within about a year and is by far the eco-friendly alternate when compared with application systems using disposable cartridges.



## WALTHER PILOT – The product range



### Spray coating technology

- Manual spray guns
- Automatic spray guns
- Airless equipment

### Compressed air supply

- Control units (pneumatic and electric)
- Filters and pressure regulators

### Material transfer technology

- Material pressure tanks
- Paint mixing tanks
- Drum emptying systems
- Agitator systems
- Fluid level sensors
- Pumping systems

### Two-component mixing technology

- Mechanical systems
- Electronically controlled systems

### Spray booths

- Complete coating systems
- Industrial spray booths with paint arrestors
- Water wash booths
- Drying systems
- Air make-up units

### Protective equipment

- Masks
- Protective clothing



The Coatings Experts



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