

WALTHER PILOT

AUTOMATIC SPRAY GUNS

PILOT WA 900 SERIES



■ Uniquely flexible



The Coatings Experts

Moving materials to the spray gun

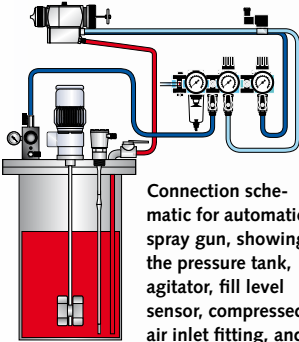
WALTHER PILOT offers you pressure tanks made of galvanized steel or stainless steel, in many different sizes. These vessels may be fitted, optionally, with agitators driven with compressed air or electricity.



Modern stainless steel tanks in the LDG series



Cover lifting unit for the MDG 45 pressure tank



Connection schematic for automatic spray gun, showing the pressure tank, agitator, fill level sensor, compressed air inlet fitting, and solenoid valve



Paint mixing container, fitted with diaphragm pump, agitator, fill level sensor



We can also build, as per your specifications, complete material supply units at modest scale and multi-material systems.

Lifting devices for container covers enable effortless and safe replacement of the tank when it has been emptied. The agitator automatically switches off when the cover is raised.

PILOT WA 900 – Whenever quality counts!



Why spray guns in the PILOT WA 900 series are always the right choice.

- This spray gun is designed for use with the quick-change adapter plates. You may choose between an aluminum plate and a low-profile plate made of stainless steel.

Regardless of which material configuration might be used (branch line or recirculating), the plate permits all connection variations.

- Selection from three nozzle and air cap systems: standard system, HVLP, and HVLP^{Plus}. The innovative HVLP^{Plus} nozzle and air cap system offers the finest atomization at high working speeds and excellent application efficiency.
- Material savings of up to 30%.
- Additional models are also available for working adhesives and ceramic substances.
- Nozzles are available in twelve sizes. We would be happy to offer consulting support, if desired.
- The complete forward section of the PILOT WA 900, along with the nozzle and the material needle, are fabricated from stainless steel. Water-based and aggressive or corrosive media can be handled without difficulty.
- Compact design, low weight
- Easy to clean: The body of the spray gun is finished with PTFE.
- **Our technical laboratory conducts testing to determine which is the right coating technique. As a rule, these studies are normally provided gratis by WALTHER PILOT.**

In the interest of avoiding non-productive periods caused by cleaning and maintenance work, it makes good sense to have an additional spray gun on hand.



Selecting the type of spray gun

Three steps are needed to select the model required to meet your production environment.

- A** First, choose the type of spray gun. Here you will decide on a model with internal control or one with remote setting of the spray parameters.
- B** Select the desired atomization technology and nozzle orifice. Please get in touch with us if you require additional information.
- C** Finally, select the adapter plate. Two basic models are available: one plate made of aluminum with electroless nickel-plating and a low-profile plate made of stainless steel.

A Select the type of spray gun

- 1. Model with internal control:** Use the knurled screws to make the adjustments for round or wide jet.



PILOT WA 900

- 2. Model for remote setting:** The air for the round or wide jet is fed under external control. This makes it easy to match the spray geometry to suit changes in surface dimensions.



PILOT WA 905

Suitable for virtually every medium

Regardless of which model you select, the spray gun can be used with almost any medium, since the forward section is made entirely of stainless steel. When using water-based coating materials, the stainless steel adapter plate (see at the right) is recommended. There is a special version of the PILOT WA 900 for working with ceramic substances and other abrasive media.

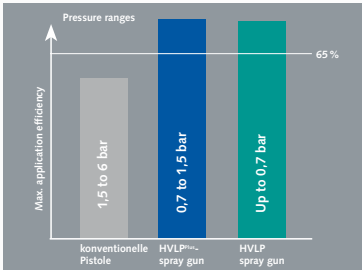
Atomizing technology

You can obtain the innovative HVLP^{Plus} nozzle technology only from WALTHER PILOT. HVLP^{Plus} combines the advantages of traditional HVLP atomization and those of conventional paint spray technology. The most precise painting results are achieved while, at the same time, material waste is minimized. This is unquestionably unique.



PILOT WA 900 HVLP^{Plus}

PILOT WA 905 HVLP^{Plus}



The innovative HVLP^{Plus} Nozzle Air Cap System ensures high material savings and an excellent surface finish. Measurements by the Fraunhofer Institute for Manufacturing, Engineering and Automation using the EN-Norm 13966-1 produced a transfer efficiency of up to 88%. The PILOT WA 900 HVLP^{Plus} pays for itself in a very short time.

B Select the atomizer technology





Standard air cap



HVLP^{Plus} air cap



HVLP air cap

1. Standard version: conventional spray technology (silver-colored air cap)
2. HVLP^{Plus} version (blue air cap) 
3. HVLP version (green air cap) 
4. Version for solvent-based adhesives
5. Version for water-based adhesives
6. Version to handle ceramics, vitreous enamel, slip

Select from the following nozzle sizes:

0.3, 0.5, 0.8, 1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.5, 3.0, 3.5 mm diam.

(standard nozzle size: 1.5 mm diam.)

Quick-change adapter plates

You can select either the standard plate (with material inlets at the rear) or the low-profile plate made of stainless steel (material ports at the sides). Regardless of which type of plate you prefer, it will always match both types of spray gun.

The spray gun can be detached from the plate in a jiffy. The two mounting bolts are quickly unscrewed using a conventional 4 mm Allen wrench.



Plate made of aluminum with electroless nickel-plating

Low-profile plate made of stainless steel (recirculating version), suitable for processing water-based paints and aggressive media etc.

C Select quick-change adapter plate

It couldn't be easier. You first decide on one of the plates detailed above. These are all-rounders and can be served both by branch lines and recirculating feed. You need only a few minutes to configure the plate. We can also do that for you. In this case, we require the following information:

Adapter plates, aluminum with electroless nickel plating

1. Adapter plate, aluminum, for PILOT WA 900
2. Adapter plate, aluminum, for PILOT WA 900, recirculating version
3. Adapter plate, aluminum, for PILOT WA 905
4. Adapter plate, aluminum, for PILOT WA 905, recirculating version

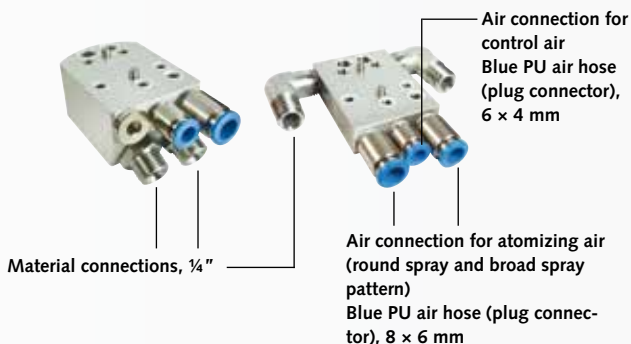
Adapter plates, stainless steel

5. Adapter plate, stainless steel, for PILOT WA 900, material intake at the left*
6. Adapter plate, stainless steel, for PILOT WA 900, material intake at right*
7. Adapter plate, stainless steel, for PILOT WA 900, recirculating version
8. Adapter plate, stainless steel, for PILOT WA 905, material intake at left*
9. Adapter plate, stainless steel, for PILOT WA 905, material intake at right*
10. Adapter plate, stainless steel, for PILOT WA 905, recirculating version

* Left or right, looking in the direction of the spray

Connector for the adapter plate

You require the following hose connectors for the quick-change adapter plates:



Technical specifications

Max. material pressure	0.8 MPa, 8 bar, 116 PSI
Max. atomizing pressure	0.8 MPa, 8 bar, 116 PSI
Max. operating temperature	80°C, 176°F
Weight, PILOT WA 900	500 g
Weight, PILOT WA 905	480 g
Weight, aluminum adapter plate	195 g
Weight, stainless steel adapter plate	310 g

Reconfiguring the adapter plate

Depending on the requirements of the production operations, the adapter plate can be modified retroactively.

If an additional connection (e.g. for a recirculation system) is required, then the stopper plug can easily be removed and the connector nipple installed. Conversely, existing connector nipples can be removed and the ports closed off. Please ask us for details.



The supplied closure pin is used when the spray gun is connected to a branch line.



For branch lines



For material recirculation

WALTHER PILOT

Additional models in automatic spray guns

WALTHER PILOT can supply with the spray gun that meets your requirements exactly. We would be happy to forward information material. Or you can visit our Website: <http://www.walther-pilot.de>



PILOT WA 700 – incorporating the HVLV^{Plus} material-saving concept



PILOT WA XV – the most rugged and economical spray gun for all kinds of routine work



PILOT Signier – the model for painting with sharp edges and for markings

This is what you can expect from us:

- Painting (metal, wood, plastic, etc.)
- Adhesive application (upholstery, furniture etc.)
- Sealant processing
- Mould separating agent processing
- Foodstuff processing
- Applying technical oils
- Applying cooling lubricants
- Processing ceramics, enamel, slip
- Applying black wash
- Colour marking for quality inspection
- Colour marking with letters



Our Strengths

- Spray coating technology
- Compressed air supply
- Material transfer technology
- Two-components mixing installations
- Spray booths
- Protective equipment



The Coatings Experts

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