

Special Spray Gun PN 5

Operating Manual

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Printed in Germany

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1 Intended Use

The intended use for the **ABAC** special spray gun PN 5 is to spray plastic wall coverings. The spray gun should only be used for paints and lacquers which the manufacturers have approved for High Volume Low Pressure (HVLP) air-spraying technique application. These are for instance:

- Liquid woodchip wallpaper, multicolour effect lacquers, sprayed plaster.

Any other use of the spray gun other than as described in this manual is not permitted.

Identification number of the special spray gun PN 5 - BJ 301 160 0571.

The processing and safety instructions of the respective paint manufacturer must always be observed, as well the requirements of these operating instructions.

In any case, only paints and solvents with a flash point above 21°C = 70°F may be used for spraying!

Important! The **ABAC** special spray gun PN 5 must only be operated with low-pressure blowers (from 0,2 to 0,45 bar)! It is preferable to operate the spray gun in assembly with the original **ABAC** low pressure paint-spraying units. As a part of original **ABAC** units, the **ABAC** special spray gun PN 5 can be operated in combination with all **ABAC** motor blowers: SG 90, SG 2000, SG 2500 and **ABAC** SG 3001.

When using high-pressure blowers or compressors, the spray gun must only be operated in conjunction with a pressure transducer. With the help of a pressure transducer, which is a special accessory and can be ordered in addition to the basic equipment (see section 12 of this manual), the spray gun can be connected to a pressure system or to a compressed air network with an air flow rate of at least 250 l/min and a pressure of 2.5 to 4 bar.

Ambient temperature range for equipment operation is from 0°C to +45°C, relative humidity must not exceed 80%. Conditions of transportation and storage see section 5.

2 Brief Description

The **ABAC** special spray gun PN 5 consists of the spray gun itself and the screw-mounted paint container (see figure 1). The air is supplied to the spray gun by means of the connected air hose, which from the one side is inserted into the gun handle and from the other side is screwed into the connection pipe of the **ABAC** low-pressure blower. After the air enters the gun body, it flows through the pressure hose into the paint container where the pressure results in a uniform flow of paint. The trigger releases the paint contained in the paint container for spraying by the nozzle. The flow of air atomizes the paint at the air head.

The amount of paint sprayed is adjustable with the paint quantity regulator, which is pos. 116 - knurled setting screw (see figure 3).

Note: Keep your operating manual and attached CE declaration of conformity in a safe place.

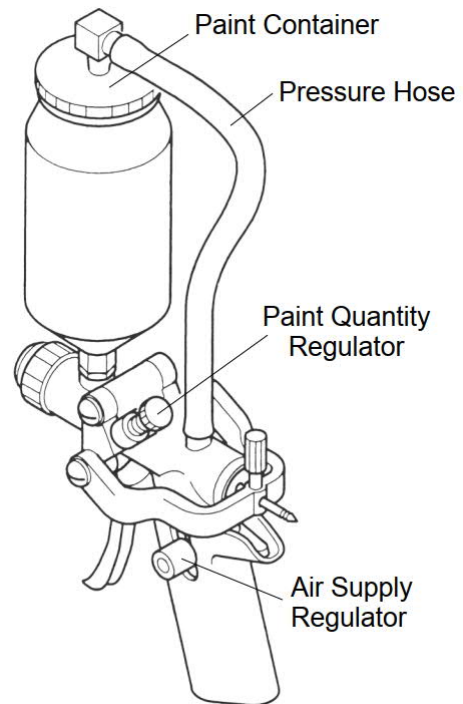


Figure 1

3 Technical Data

- Mean sound level, DIN 45635, when connected to SG 90 E blower 80 dB (A)
- Only for paints and solvents with a flash point above 21 °C
- Maximum permissible operating pressure 0,45 bar

- Length approx. 180 mm
- Width approx. 125 mm
- Height approx. 400 mm
- Weight 1.02 kg

4 Safety Notes

Besides this Operating Manual, and the requisite statutory safety regulations applicable in the country and place of use, operators must also abide by the recognized codes of practice for safe and workmanlike operation.

4.1 Principles; Correct Use

- The **ABAC** Special Spray Gun PN 5 is designed according to the very latest technical findings and complies with recognized safety regulations. However, if used improperly, there is a risk for life and limb for the user or other persons, and both the spray gun and property can be damaged!
- The **ABAC** Special Spray Gun PN 5 should only be used for its intended purpose and when it is in a perfect working order. The user must be safety conscious, fully aware of the risks, and follow the operating instructions! Faults that could impair the operating safety of the spray gun must be immediately remedied by an authorized person!
- The **ABAC** special spray gun PN 5 must only be operated with low-pressure blowers (from 0,2 to 0,45 bar)! It is preferable to operate the spray gun in assembly with the original **ABAC** low pressure paint-spraying units: SG 90, SG 2000, SG 2500 and ABAC SG 3001.

Do not connect the spray gun to high-pressure blowers (from above 0,45 bar).

When using high-pressure blowers or compressors, the spray gun must only be operated in conjunction with a pressure transducer. With the help of a pressure transducer, which is a special accessory and can be ordered in addition to the basic equipment (see section 12 of this manual), the spray gun can be connected to a pressure system or to a compressed air network with an air flow rate of at least 250 l/min and a pressure of 2.5 to 4 bar.

- The equipment should never be used for any other purpose. The manufacturer or supplier is not responsible and will not be liable for damage or injury resulting from improper use, which shall be entirely at the user's risk.
- Warranty obligations are valid only if the user observes the instructions and recommendations described in this operating manual. Unauthorized changes and repair, use for maintenance of spare parts other than original parts supplied with the product and approved by the manufacturer or included in the spare parts list, as well operation of the equipment under conditions other than those permitted in this manual, will void the manufacturer's guarantee for the **ABAC** special spray gun PN 5.

4.2 Safe Operation

- Comply with the requirements of accident prevention regulation “Processing of Coating Materials” (e.g. in Germany VBG 23).
- All persons using the **ABAC** special spray gun PN 5 must have read and understood this Operating Manual, particularly the section entitled “Safety Notes”.
- Use only paints and solvents with a flash point of 21°C / 70°F or higher without additional heating (see details on paint container).
- When working in confined spaces, these must be properly ventilated using effective technical ventilation systems.
- The **ABAC** special spray gun PN 5 is not splash-proof. It must not be used out of doors, when it is raining or splashed or washed with water or immersed in liquid.
- The **ABAC** special spray gun PN 5 must not be used in works locations subject to the provisions of explosion prevention regulations, or on premises and in areas where there is a risk of fire.
- Take care to ensure that there are no ignition sources in the vicinity, such as naked flames, sparks, glowing wires, hot surfaces, lighted cigarettes etc. The distance between spray jet exit and a possible source of ignition (even the device itself) must be at least 5 m (fire and explosion hazard from ignitable spray mist).
- The sprayed paint emerges from the nozzle at high pressure. Never direct the spray jet at people or animals. If the skin is injured by paint, lacquer or solvent there is a risk of infection. Seek medical treatment immediately and inform the doctor which paint, lacquer or solvent was used.
- Poisonous fumes may be given off during spraying (see details on the paint container). Use a breathing mask as directed by paint manufacturer’s instructions. Keep children and other people away from the working area.
- Keep the **ABAC** special spray gun PN 5 in a safe place that is inaccessible to children and unauthorized personnel. Make sure that no unauthorized personnel (particularly children) can put the **ABAC** special spray gun PN 5 into operation.
- Store your **ABAC** special spray gun PN 5 in a dry ventilated room.

- For Safety reasons you should only use **ABAC** original accessories and **ABAC** original spare parts.
- Always turn off the compressed air supplied by the blower before the paint container of the **ABAC** special spray gun PN 5 is refilled with paint.
- **Repairs and maintenance works must only be carried out by authorized specialists or by us (ABAC). Addresses of authorized firms can be obtained from us or from your dealer upon request.**
- **Take care not to spray in the direction of the blower.**
- Dispose of cleaning and spraying material wastes according to the instructions given by the relevant lacquer, paint and solvent manufacturers.

5 Transportation and Storage

The **ABAC** special spray gun PN 5 is supplied in a cardboard box. To avoid damage during transportation and storage, we recommend to use this original packaging. Store your equipment in a dry ventilated room. Ambient temperature range for equipment storage is from 0°C to +45°C, relative humidity must not exceed 80%.

6 Start-Up and Operation

6.1 Connecting the Spray Gun

- Insert the air hose of the **ABAC** low-pressure blower into the insulated handle of the spray gun (see Fig.2).

6.2 Paint Preparation

- To ensure trouble-free spraying and to produce a perfect sprayed surface it is essential to pay special attention to the preparation of the coating material that is to be sprayed.
- The coating material supplied by the manufacturer must be thinned to the required spraying consistency to achieve the desired spraying effect. Sprayed coatings prepared from smooth spraying pastes should be strained before they are poured into the paint container.

The spraying effects are determined by the following factors:

- a) Properties and consistency of the spraying material.
- b) Choice of nozzle size and corresponding air head.
- c) Position of the air supply regulator: knob (figure 3, pos. 123).

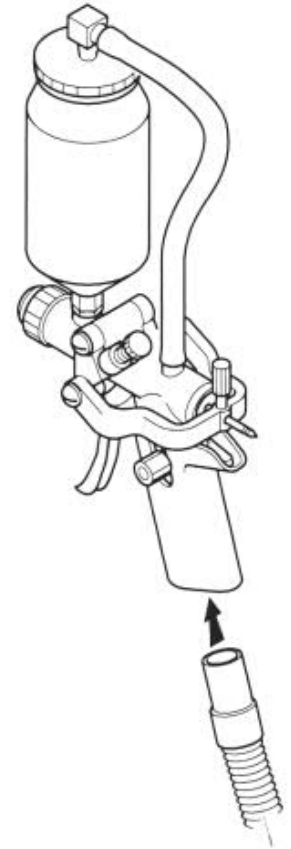


Figure 2

- Before dry sand grit or coloured granules are sprayed onto a wet primary coating it is first necessary to remove the dust contained in the dry sand mixture, or to wash and dry it thoroughly, to ensure that the basic shade is not contaminated.

6.3 Adjusting the Spray Gun to Different Jobs

The correct nozzle, nozzle needle and air head must be selected in keeping with the coating material that is to be sprayed.

Before spraying paints and other coating materials, the correct nozzle, the nozzle needle and the air head must be selected according to the material to be sprayed and the object to be painted (see section 13 “Annex”).

The following exchangeable accessories should be used to achieve the required textured coating effects:

- 2.5 mm and 3.5 mm nozzle in conjunction with the pointed nozzle needle.
- 6.0 mm and 8.0 mm nozzle in conjunction with the head nozzle needle.
- 12, 15 or 16.5 mm air heads.

A 9.5 mm nozzle with a short nozzle needle is available as a special accessory unit to spray dry grit.

6.4 Setting the Spraying Rate

The spraying rate is adjusted with the knurled screw (figure 3, pos.116). Turn the knurled screw inwards to limit the path of the trigger and thereby the path of the nozzle needle. The trigger is then only pulled back to the newly adjusted pressure point.

6.5 Filling the Paint Container

The paint container should only be filled to a level 2 cm below the brim. Close the lid securely. The spray gun will not work properly if the lid has not been tightly closed.



Warning! Do not lay down the filled spray gun, but rather place it on a stand so that the paint cannot flow into the pressure hose through the small opening in the lid of the paint container. We recommend the use of our spray gun stand for this purpose.

7 After Paint Spraying has Finished

First turn off the **ABAC** low-pressure compressor or disconnect the air supply from the **ABAC** pressure transducer. Then disconnect the air hose from the insulating handle of the **ABAC** special spray gun PN 5. Clean the gun as described in section 8.1.

8 Care, Maintenance and Repair

Always disconnect the air hose of the **ABAC** low-pressure compressor from the spray gun prior to all care, maintenance and repair work.



Repairs must only be performed by authorized specialist firms or by our company. A list of authorized firms can be obtained from us or your dealer.

A special after-sales service for the **ABAC** special spray gun PN 5 is not necessary. However, the packing seal and the lid seal must be replaced when they are worn out (see Trouble Shooting, section 9).

8.1 Cleaning the Spray Gun

The spray gun must be cleaned immediately after the spraying work has been completed.

Proceed in the following manner for this purpose:

- 1) Pour out any remaining paint.
- 2) Rinse out the paint container thoroughly with a suitable solvent. During rinsing, operate the trigger several times to clean the paint channels and nozzle.
- 3) Clean the brim of the container and the lid with seal carefully with a soft cloth or brush using a suitable thinner.

On no account use sharp-edged tools as these may damage the seal and the surface of the container.

Dried paint residues on the air-head pos. 109 (also pos. 135, 136) on figure 3 should not be scratched off with a hard object. Immerse the air-head into a thinner for few minutes and then remove the residual with a brush.

Attention! After working with water-soluble paints such as acrylic paints, dispersions or binder emulsions, the nozzle, nozzle-needle, trigger and the thread of the spring bushing (figure 3, pos. 111) should be lightly oiled after cleaning.

If corrosive cleaning products are used, the spray gun components must be rinsed with clean water immediately after cleaning and thoroughly dried to prevent corrosion.

Attention! Never immerse the complete spray gun or the lid with seal in corrosive cleaning products, thinner or solvent. Also store no corrosive cleaning products, thinner or solvent in the paint container. After cleaning of the spray gun do not tighten the lid so that the seal not lose the elasticity.

After cleaning the spray gun, always apply a drop of oil to the packing seal and the nozzle needle.

If there is a leak in the cover seal of the paint container, or if it is defective, replace the seal.

8.2 Exchanging the Nozzle, Nozzle Needle and Air Head

Unscrew the nozzle coupling nut (figure 3, pos. 110) and then remove the air head (pos. 109). The nozzle is exchanged with the supplied nozzle spanner (pos. 130). Grease the thread of the new nozzle before it is screwed in. The nozzle should only be lightly tightened.

To exchange the nozzle needle unscrew the nozzle coupling nut (pos. 110), remove the air head (pos. 109), and unscrew the nozzle (pos. 108). Releasing the locking screw (pos. 121), pull back the trigger (pos. 117), and fold up the trigger bracket (pos. 119). Pull the nozzle needle (pos. 107) out to the front. When inserting another needle ensure that the locking screw engages properly in the groove of the nozzle needle.

The nozzle needle is sealed with an O-ring (pos. 102). The slotted screw (pos. 103) in the thread of the crosspiece (pos. 101) presses the O-ring against the nozzle needle. Tighten the slotted screw if paint oozes out of the O-ring. Renew the packing if paint leakage continues.

8.3 Exchanging the O-ring

To exchange the stuffing box (figure3, pos. 102) fulfill the following steps:

- 1) Dismantle the nozzle needle in the described manner.
- 2) Adjust the air slide (figure 3, pos. 122) downwards.
- 3) Use a screwdriver to unscrew the slotted screw (pos. 103).
- 4) Replace the old O-ring with a new one (lightly grease).
- 5) Screw in the slotted screw.
- 6) Insert the nozzle needle.
- 7) Check the spray gun for tightness.

8.4 Exchanging the Crosspiece

To exchange the crosspiece fulfill the following steps:

- 1) Unscrew the nozzle coupling nut (figure 3, pos. 110); remove the air head (pos. 109); unscrew the nozzle (pos. 108); release the locking screw (pos. 121); pull back the trigger bracket (pos. 119) and fold upwards; unscrew the terminating screw (pos. 111).
- 2) Pull the nozzle needle (pos. 107) out to the front.
- 3) Unscrew the paint container (pos. 125) and the transition adapter (pos. 106).
- 4) When the crosspiece (pos. 101) is loosed, push the slide (pos. 122) downwards.
- 5) Push out the crosspiece (pos. 101) to the front.
- 6) Unscrew the slotted screw (pos. 103) out of the crosspiece.
- 7) Insert a new crosspiece with a new O-ring (pos. 102) and slotted screw (pos. 103).
- 8) Reverse the procedure to return the dismantled parts.

9 Faults, Possible Causes and Remedies



Do not use any sharp-edged tools for cleaning!!!

Fault	Possible Cause	Remedy
Paint flows into the spray gun housing	<ul style="list-style-type: none"> • O-ring either leaking or defective 	<ul style="list-style-type: none"> • Clean spray gun, tighten or exchange O-ring
	<ul style="list-style-type: none"> • Paint has passed from the cup through the pressure hose into the housing 	<ul style="list-style-type: none"> • Clean the spray gun and pressure hose. Always hold the spray gun vertical. If necessary, use special accessories, such as a spray gun stand, angular connector to change the spraying angle
	<ul style="list-style-type: none"> • Duckbill valve either improperly installed or defective 	<ul style="list-style-type: none"> • Clean the spray gun and pressure hose, check position and state of the duckbill valve. Adjust valve position, if necessary, replace the valve
Individual drops appear in the spray pattern	<ul style="list-style-type: none"> • Nozzle is clogged 	<ul style="list-style-type: none"> • Clean nozzle
	<ul style="list-style-type: none"> • Nozzle is damaged or worn out 	<ul style="list-style-type: none"> • Replace nozzle
	<ul style="list-style-type: none"> • Nozzle needle is damaged 	<ul style="list-style-type: none"> • Replace nozzle needle
	<ul style="list-style-type: none"> • Paint has incorrect spraying consistency 	<ul style="list-style-type: none"> • Check spraying consistency of paint, use viscosity dipper

Fault	Possible Cause	Remedy
Paint still emerges from the nozzle after releasing the trigger	<ul style="list-style-type: none"> • Nozzle and / or nozzle needle are / is damaged 	<ul style="list-style-type: none"> • Replace nozzle and / or nozzle needle
	<ul style="list-style-type: none"> • Setting nut on nozzle needle has gone out of adjustment 	<ul style="list-style-type: none"> • Unscrew the setting nut on the nozzle needle until there is an adequate clearance
Spray gun delivers no paint or works unevenly	<ul style="list-style-type: none"> • Lid is not properly closed 	<ul style="list-style-type: none"> • Carefully clean the lid, lid seal and rim of cup and, if necessary, replace lid seal.
	<ul style="list-style-type: none"> • Angle-piece and / or pressure hose are / is blocked 	<ul style="list-style-type: none"> • Clean angle-piece and pressure hose
	<ul style="list-style-type: none"> • Nozzle is blocked 	<ul style="list-style-type: none"> • Clean / change nozzle
Paint jet sprays to one side	<ul style="list-style-type: none"> • Paint has accumulated on the outside of the nozzle 	<ul style="list-style-type: none"> • Clean the nozzle
	<ul style="list-style-type: none"> • Nozzle is not tightly seated 	<ul style="list-style-type: none"> • Tighten the nozzle

10 Operating Instructions

Depending on actual use and location of the equipment, users must issue an operating instruction, based on this manual and in the language of their employees, to define further details for the safe operation of the **ABAC** special spray gun PN 5. This operating instruction is to be displayed in a suitable public place at the workplace and to be read and observed by all employees.

11 Spare Parts



For safety reasons you should only use **ABAC** original accessories and **ABAC** original spare parts.

Spare parts are available from your **ABAC** specialist dealer or direct from us.

For speedy and efficient ordering of spare parts we require the following details:

- Identification number and designation of the spare part
- Quantity of spare parts required
- Address.

Spare Parts List for **ABAC** special spray gun PN 5 (Identification number BJ 301 160 0571)

(see figure 3)

Table 1

Pos. No.	Quantity	Designation	Ident. Number
101	1	Crosspiece	B0 301 161 0902
102	1	O-ring 4x3 FPM 70	HE 301 161 4001
103	1	Slotted screw	HE 301 161 4000
104	1	Housing	B0 301 008 5300
105	1	O-ring A 16 x 22 DIN 7603 Cu	H5 108 200 3640
106	1	Transition adapter	B0 301 161 5200
107	1	Head nozzle needle	B0 301 160 2600
108	1	6 mm. dia. nozzle	HE 301 161 2040
109	1	12 mm dia. air head	HE 301 161 3910
110	1	Coupling nut	B0 300 161 1906
111	1	Terminating screw	HE 301 161 4202
112	1	Pressure spring	H5 970 640 0101
113	1	Bushing	HE 301 161 4100
114	1	Hexagonal nut	HE 301 161 4400
115	1	Pressure spring	H5 970 630 0101
116	1	Knurled screw	HE 301 161 6300
117	1	Trigger	B0 301 161 4601
118	1	Duckbill valve, pack with 5 pieces	AB36836
119	1	Trigger bracket	B0 301 161 4701
120	4	Machine screw	HE 301 161 4801
121	1	Locking screw	HE 301 161 1400
122	1	Slide	HE 301 161 3402
123	1	Knob	HE 301 161 6503
124	1	O-ring A 18 x 22 DIN 7603 Cu	H5 108 220 3640
125	1	Paint container 1.5 l.	B0 301 160 3740
126	1	Thiokol disk	HE 300 161 7600
127	1	Lid with Thiokol disk	B0 300 160 2401
128	1	Angle-piece	HE 300 161 7702
129	1	Pressure hose, corrosion resistant, 8 mm inside dia. x 360 mm long	BJ 000 991 9507
130	1	Socket spanner	H5 940 520 0100

Table 1 – continuation

Pos. No.	Quantity	Designation	Ident. Number
131	1	Pointed nozzle needle	HE 301 161 1110
132	1	2.5 mm dia. nozzle	HE 301 161 2011
133	1	3.5 mm dia. nozzle	HE 301 161 2021
134	1	8.0 mm dia. nozzle	HE 301 161 2030
135	1	15 mm dia. air head	HE 301 161 3920
136	1	16,5 mm dia. air head	HE 301 161 3930
137	1	Insulating handle	HE 301 008 5410

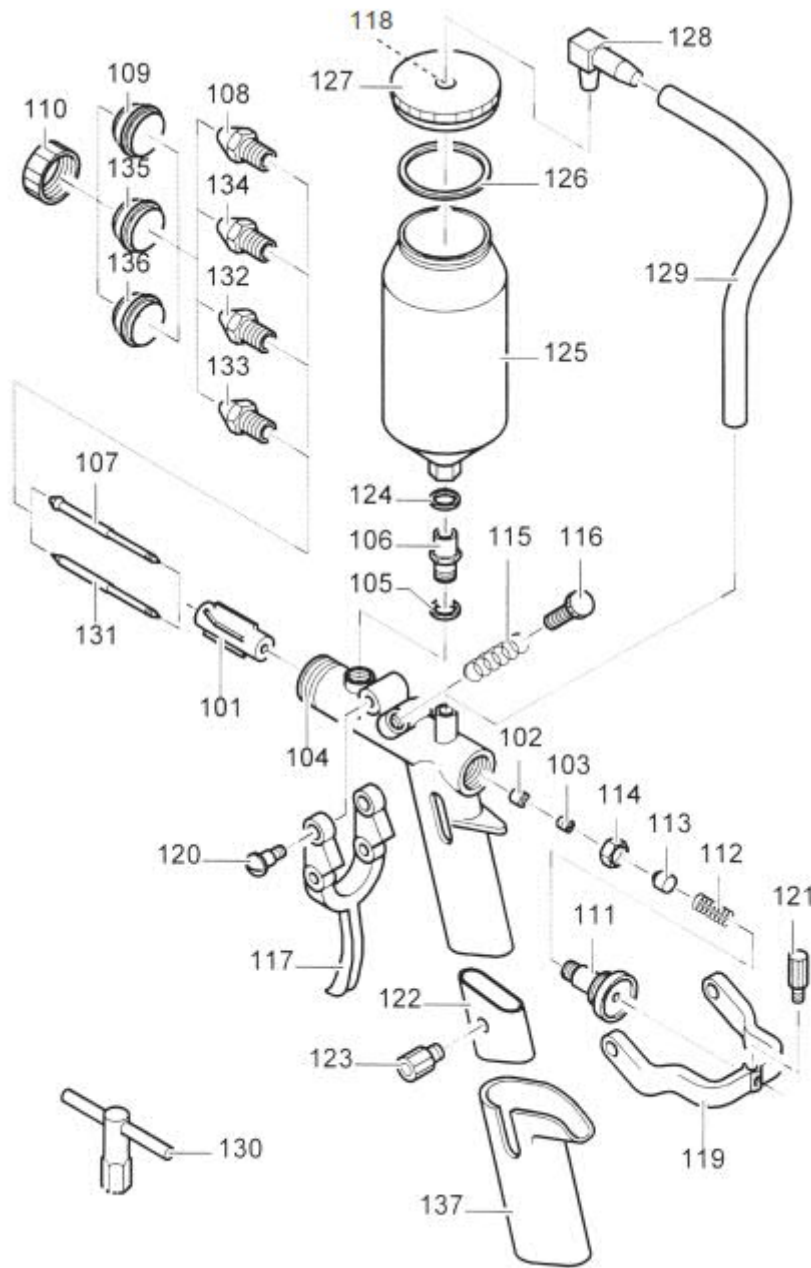


Figure 3

12 Special Accessories

Table 2

Pos. No.	Quantity	Designation	Ident. Number
		Special Accessories (figure 4)	
138	1	9.5 mm dia. nozzle	HE 307 161 20 00
139	1	Short nozzle needle	B0 301 161 11 20
		Angle piece, comp. (figure 5)	HE 301 161 77 10
201	1	Angle piece	HE 301 161 77 11
203	1	Hexagonal nut	HE 301 161 33 00
204	2	O-ring A 18 x 22-Cu DIN 7603	H5 108 220 36 40
205	1	Pressure hose, corrosion resistant, 8 mm inside dia. x 470 mm long	BJ 000 991 95 09
		Pressure transducer (figure 6)	
301	1	Pressure transducer, complete	BJ 310 160 30 31
		Paint container, 2.5 l., complete (figure 7)	BJ 000 971 0812
501	1	Paint container, 2.5 l.	B0 301 160 37 50
502	1	Lid with Thiokol disk	B0 300 160 24 01
503	1	Pressure hose 8 x 470 m	BJ 000 991 95 09

- **Nozzle, 9.5 mm dia. (figure 4)**
- **Short nozzle needle (figure 4)**

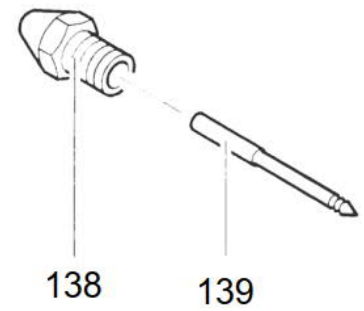


Figure 4

- **Angle-piece for upward spraying (figure 5) (e.g. to spray ceilings)**

After unscrewing the paint container (figure 3, pos. 125) and removing the O-ring (pos. 124), the nut (figure 5, pos. 203), the O-ring (pos. 204) and the angle piece (pos. 201) are screwed onto the transition adapter, adjusted in the correct position in relation to the spray gun, and secured by tightening the nut (pos. 203). The top O-ring (pos. 204) is returned and the paint container is screwed back on. The pressure hose (figure 3, pos. 129) is replaced by a 47 cm long pressure hose (figure 5, pos. 205).

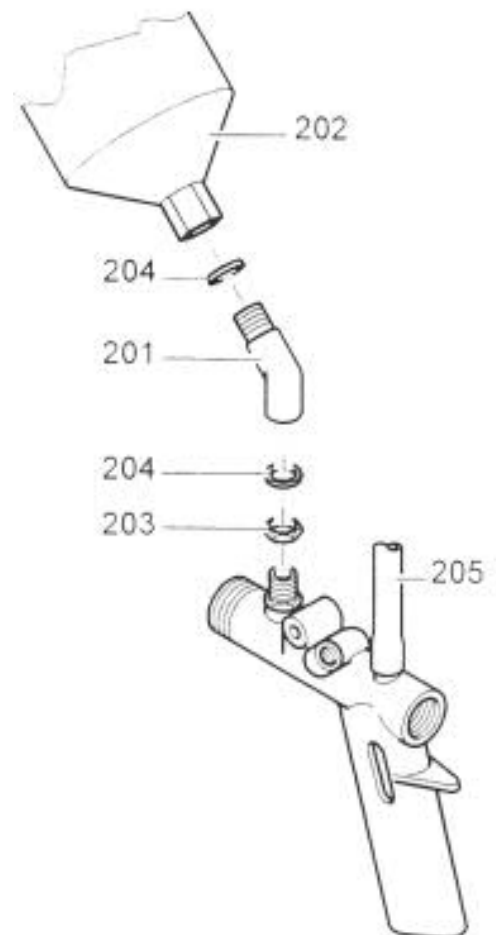


Figure 5

- **Pressure transducer**

Pressure transducer is used to connect the spray gun to compressed air systems with a capacity of at least 250 l/min and working under the operating pressure from 2.5 to 4 bar (see figure 6).

Pressure transducer installation procedure:

Insert the pressure transducer into the gun handle, connect the pressure hose to the opposite side of the pressure transducer.

The flow of air can be adjusted according to the type of paint being sprayed by adjusting the pressure-reducing valve of the compressed-air system accordingly.

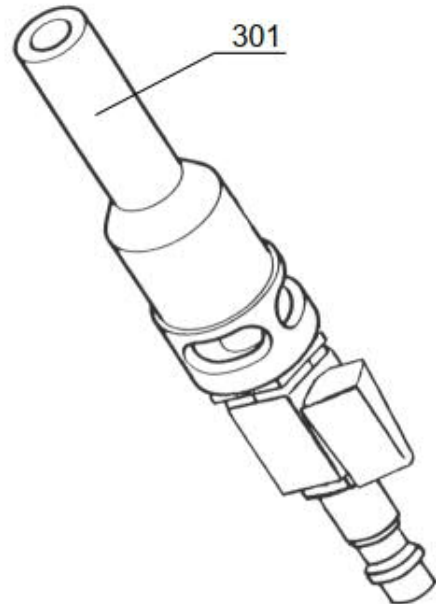


Figure 6

- **Paint container, 2.5 l. capacity (figure 7)**

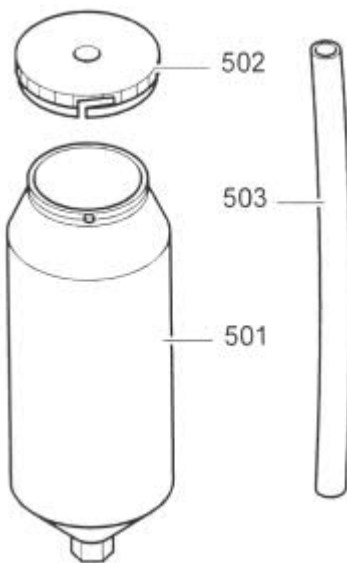


Figure 7

13 Annex

Processing instructions and requirements for applying materials with plastic, textile, wooden and other particles, including wallpaper based on these materials, as well the requirements for setting up **ABAC** special spray gun PN 5 for the correct application of such coatings are represented in Table 3.

The following symbols are used in the table:

- a) = Base coat (determining the colour).
- b) = Sprinkle effect or spraying dry sand.
- c) = Glass beads – glitter.

Table 3

		Application technique with round jet	
Spraying material / Coating effect	Nozzle, mm	Airhead, mm	Air slide position
Plain dispersions, wall paints, etc.	2,5-3,5	12 - 15	bottom - middle
Sprinkle hard plastic	a) 2,5-3,5	12	bottom
Drop texture	b) 2,5-3,5	15 – 16,5	top
Burl texture	a) 2,5-6	12 - 15	bottom - middle
Fine-medium--coarse	b) 2,5-6-8	15 – 16,5	middle - top
Stipple effect	a) 2,5-3,5	12	bottom
Grained effect	b) 2,5-3,5	12 – 16,5	middle - top
Thread texture	a) 2,5-3,5	12	bottom
	b) 2,5-3,5	15 – 16,5	top
Liquid woodchip wallpaper	6 - 8	12 - 15	bottom - middle
Fine-medium-coarse			
Coloured fibre paint	a) 3,5	12	bottom - middle
	b) 6	12-15	bottom - middle
Plastic sprinkling	a) 2,5-3,5	12	bottom - middle
	b) 6	15 – 16,5	bottom
Sprayed plaster	6-8	12-15	bottom - middle
Fine-medium-coarse			
Sprayed mosaic	a) 3,5-8	12 - 15	bottom - middle
Dry sand spraying	b) 8 - 9,5	15 – 16,5	bottom - middle
	Short nozzle needle		(2nd dry gun)
Hard plastic	a) 3,5-6	12 - 15	bottom - middle
	b) 2,5 - 3,5	15 – 16,5	top
Stripping plastic	a) 3,5-6	12 - 15	bottom - middle
	b) 3,5-8	15 – 16,5	top

Table 3 continuation

		Application technique with round jet	
Spraying material / Coating effect	Nozzle, mm	Airhead, mm	Air slide position
Fire-proof paint	3,5-6	12 - 15	bottom - middle
Sprinkling and stripped with celluloid filler with reflection glass beads sprayed onto the wet plastic (2nd dry gun)	c) 3,5	15 – 16,5	bottom
Coloured effect paint	2,5-3,5	12 - 15	bottom
Sound-deadening paint based on rubber, synthetic resin or emulsion	3,5 - 6	12 - 15	bottom – middle – bottom