

## Installation:

1. Mount gun on a support:  
Use 12 mm (15/32") Ø hole in gun body
2. Connect compressed air to quick connection No. 71. (Use clean lubricated air)
3. Install 3-way control valve (Minimum flow Ø, 1/4") as close as possible to the gun. When using a 3-way solenoid valve, valve is „normally closed“ when deenergized. Actuation of valve can be through an automatic timer or manually.
4. Connect material feed (compound hose) to connection No. 56. A dirt trap (strainer) in feed line is recommended. Strainer mesh size: 30

## Start-up

1. Open material shut-off valve No. 55.
2. Open bleed valve nut No. 93 slightly until material emerges.
3. Actuate control valve to vent gun and then close bleed valve nut No. 93. Adjust compression spring No. 82 by means of compression screw No. 79 so needle valve No. 84 opens upon actuation of control valve.
4. Adjust quantity of spray by means of knurled knob No. 69.

## Care and maintenance

To avoid damaging seals, never immerse spray gun in hot water or aggressive cleaning fluids. Clean exterior with a damp brush or rag. Clean dismantled nozzle with compressed air. Keep all moving parts clean and oil lightly when servicing.

### Removal of needle valve No. 84

Unscrew compression screw No. 79. Unscrew bushing No. 80 from gun body No. 88 and pull out needle valve. When replacing needle valve make sure to check valve seat No. 90 (both sides can be used) or if both sides are worn, also replace valve seat No. 90.

### Removal of plunger No. 61

Unscrew retaining nut No. 68 (at air connection end) and remove complete cylinder cover No. 67. Pull out complete piston assembly No. 75 including plunger No. 61.

Unscrew countersunk screw No. 65 and push out plunger No. 61 from piston assembly No. 75. When reassembling, tighten screw firmly and secure threads with a locking fluid.

### Changing of nozzle

Unscrew retaining nut No. 92 and remove nozzle and valve seat No. 90.

## Tips for trouble shooting

### No compound emerges from nozzle

Insufficient air pressure:  
increase to 75-90 p.s.i.

### Gun not properly vented:

Open bleed valve assembly No. 93 to vent. Pull back needle valve by hand to let air escape; this also serves as a check if compound pressure is available.

### Nozzle blocked:

Remove nozzle and clean.

### Check valve No. 52 binds or leaks:

Clean or replace.

### Strainer in dirt trap blocked:

Remove and clean.

### Material hardened in feed line:

Clean line and stop cock No. 55.

### Plunger No. 61 binds, does not retract:

Replace compression spring No. 63 or piston assembly No. 75 and/or cup seal No. 57.

### Gun dribbles

Compression screw No. 79 loose: tighten.

Needle valve No. 84 or valve seat No. 90 worn: replace parts including compression spring No. 82.

### When using buffing compound

To obtain trouble free operation and minimum rate of wear, use airless compositions suitable for high pressure applications.

**We reserve the right to make changes for the purpose of improvements and technical progress.**

## SECURITY ADVISE:

Never point guns at yourself or at other persons.

Before any repair work may be carried out, the guns must be disconnected from the compressed air network and pressure must be released. Further on the stop cock no. 10.182.6 for the spraying compound has to be closed.

Defect components have to be repaired or replaced, use original Widoberg spare parts only.

Before starting to use the gun, particularly after repairs, ensure that screws and nuts are correctly tightened and check that tubes or hoses are not leak and properly fixed to the gun.

## Parts list

Item no.	Description	Part no.	Item no.	Description	Part no.
51	Banjo connection	10.181.8	73	● O-ring	10.170.2
52	● Check valve assembly	10.124.9	74	O-ring	10.161.3
53	Connecting piece	10.135.4	75	● Piston assembly	11.147.3
54	Sealing ring	10.185.0	76	Cap	10.163.0
55	Stop cock	10.182.6	77	Hexagon nut	10.165.6
56	Hose connection	11.172.4	78	Knurled nut	10.109.5
57	● Cup seal	10.166.4	79	Compression screw	10.104.4
58	● Usit sealing ring	10.167.2	80	Threaded bushing	10.103.6
59	Cylinder flange	10.312.8	81	Spring plate	10.105.2
60	Cylinder	11.148.1	82	● Compression spring	10.106.0
61	● Plunger	10.115.0	83	Collar	10.107.9
62	Strip ring	10.313.6	84	● Needle valve	10.108.7
63	● Compression spring	11.145.7	85	Guide bushing	10.102.8
64	● Sealing ring for piston assembly	10.164.8	86	● Cup Seal	10.162.1
65	Countersunk screw	10.169.9	87	Grub screw	10.160.5
66	Spindle	11.151.1	88	Gun body	10.101.0
67	Cylinder cover	11.150.3	89	Insert assembly	10.110.9
68	Retaining nut	11.155.4	90	● Valve seat	10.129.0
69	Knurled knob	11.153.8	91	Nozzle	
70	Flat head screw	11.154.6	92	Retaining nut	10.111.7
71	Quick connection	11.156.2	93	Bleed valve assembly	10.134.6
72	Sealing ring 1/8"	11.157.0			

● These parts subject to wear and should be kept in stock.

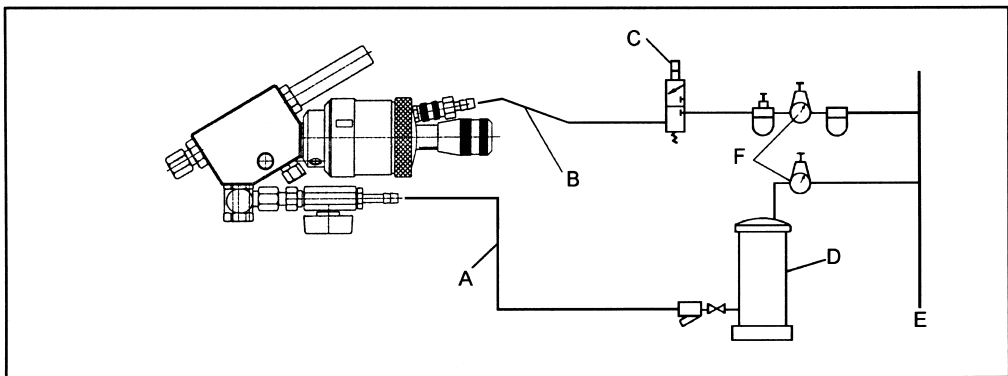
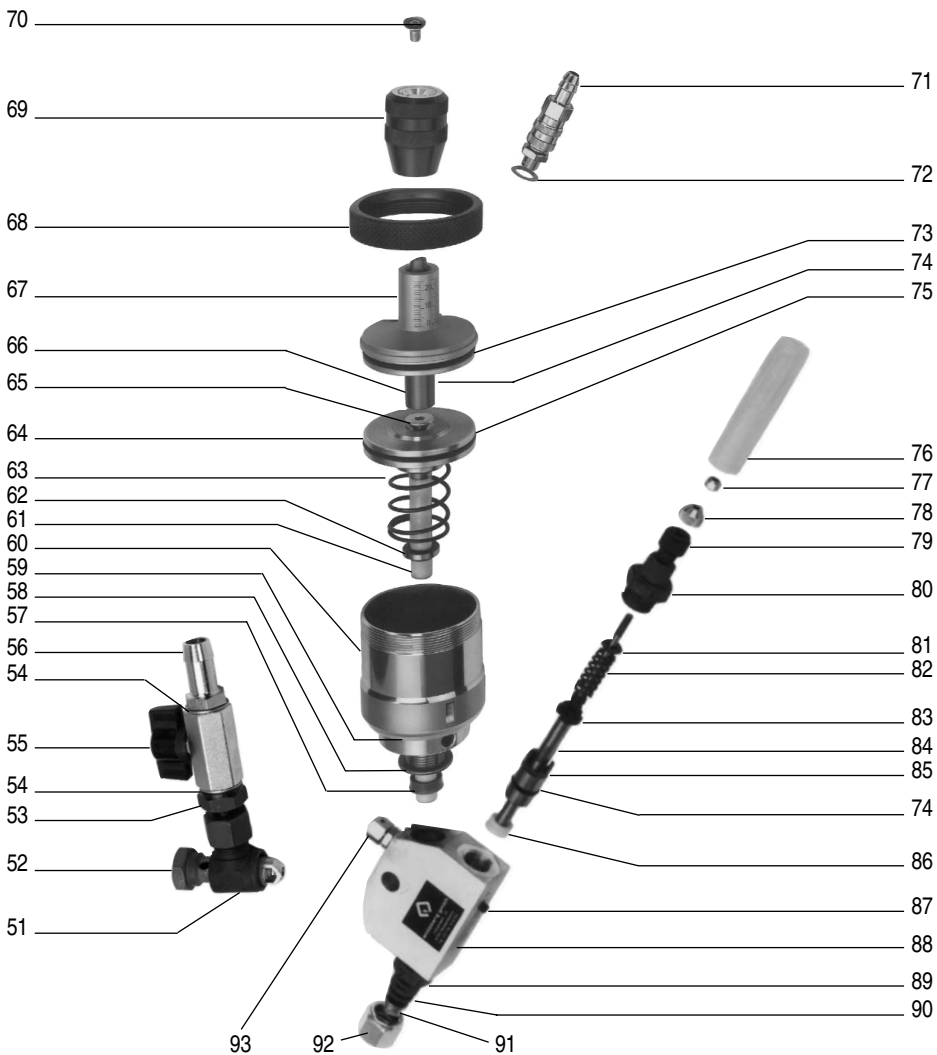
## Technical Data

Air pressure/spray gun	75–90 p.s.i.
Material (compound) pressure	50–90 p.s.i.
Hose ID; air	3/8"
Hose ID; material (compound)	1/2"
3-way valve - normally closed – port size	3/8" NPT
Minimum flow $\varnothing$	1/4"
Spray amount per shot (adjustable)	0.2–3 cm <sup>3</sup>
Air consumption/spray gun	approx. 0.75 m <sup>3</sup> /h

## Installation diagram

(See page 24)

- A Compo connection
- B Air connection
- C Solenoid valve
- D Pressure vessel or pump
- E Main line (air)
- F Pressure control



## Empfohlener Abstand der Spritzdüse zum Werkzeug:<sup>1)</sup>

Düse <sup>2)</sup> Spritzwinkel <sup>3)</sup>	Stahlbreite mm (= Scheibenbreite) <sup>4)</sup>													
	600	500	400	300	200	180	160	140	120	100	80	50	20	●
●														75
20°												230	140	60
40°							220	190	165	135	110	70		
65°				235	155	140	125	110	95	78				
90°	300	250	200	150	100	90	80							
120°	173	144	115	87										

**(B)** **(F)** **(L)**

<sup>1)</sup>Distance recommandée entre la buse et l'outil.; <sup>2)</sup>Buse, <sup>3)</sup>angle de pulvérisation,

<sup>4)</sup>Largeur du jet (= largeur du disque)

**(DK)** <sup>1)</sup>Anbefalet afstand sprøjtedyse / emne.; <sup>2)</sup>Dyse, <sup>3)</sup>Sprøjtevinkel, <sup>4)</sup>Strålebredde mm (= skivebredde)

**(E)** <sup>1)</sup>Distancia recomendada entre la tobera pulverizadora y la herramienta.; <sup>2)</sup> Tobera,  
<sup>3)</sup> ángulo de pulverización, <sup>4)</sup> Ancho de la boca en mm (= Ancho de disco)

**(FIN)** <sup>1)</sup>Suosittu ruiskusuuttimen etäisyys työkaluun.; <sup>2)</sup> Suutin, <sup>3)</sup> Ruiskukulma,  
<sup>4)</sup> Suihkuleveys mm (liuskan leveys)

**(GB)** **(IRL)**

<sup>1)</sup>Approx. Distance between nozzle and buff.; <sup>2)</sup>Nozzle, <sup>3)</sup>Spray angle,

<sup>4)</sup>width of jet (= width of mop)

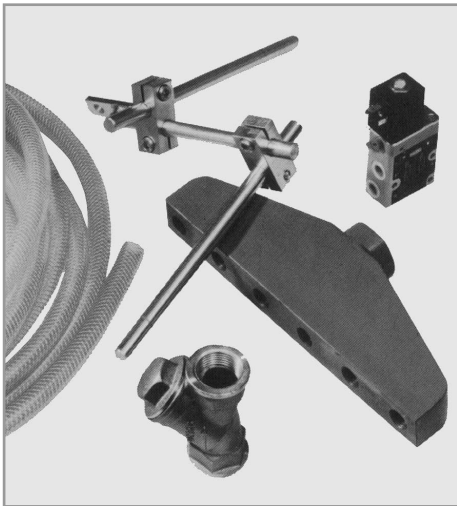
**(GR)** <sup>1)</sup>ΑΠΟΣΤΑΣΗ ΜΕΤΑΞΥ ΠΡΟΦΥΣΙΟΥ ΚΑΙ ΒΟΥΡΤΣΑΣ, <sup>2)</sup>ΠΡΟΦΥΣΙΟΥ, <sup>3)</sup>ΓΩΝΙΑ,  
<sup>4)</sup>ΠΛΑΤΟΣ ΔΕΣΜΗΣ (ΠΛΑΤΟΣ ΒΟΥΡΤΣΑΣ)

**(I)** <sup>1)</sup>Distanza approssimativa in mm. dall'ugello di spruzzatura alla ruota, <sup>2)</sup> ugello, <sup>3)</sup> angolo spruzzatura,  
<sup>4)</sup> larghezza spruzzo (larghezza ruota)

**(NL)** <sup>1)</sup>Aanbevolen afstand van de straalpijp tot het werktuig.; <sup>2)</sup> straalpijp, <sup>3)</sup> spuithoek,  
<sup>4)</sup> straalbreedte mm (=schijfbreedte)

**(P)** <sup>1)</sup>Distância recomendada entre o bocal pulverizador e a ferramenta.; <sup>2)</sup> Bocal,  
<sup>3)</sup> Ângulo de pulverização, <sup>4)</sup> Largura do jacto mm (= largura do vidro)

**(S)** <sup>1)</sup>Rekommenderat avstånd mellan munstycke och skiva: <sup>2)</sup>Munstyckets, <sup>3)</sup>sprutvinkel,  
<sup>4)</sup>Polermedelstrålens bredd i mm (= skivans bredd)



Widoberg **barrel-nozzles** consisting of a special alloy and a barrel shaped compression chamber developed through many experiments guarantee long life and a constant spray angle even when spraying very abrasive materials.

Spray angle:  
40°, 65°, 90°, 120°



Widoberg **standard nozzles** of a high grade tungsten carbide are suited for less abrasive materials.

Spray angle:  
0°, 20°, 40°, 65°, 90°, 120°

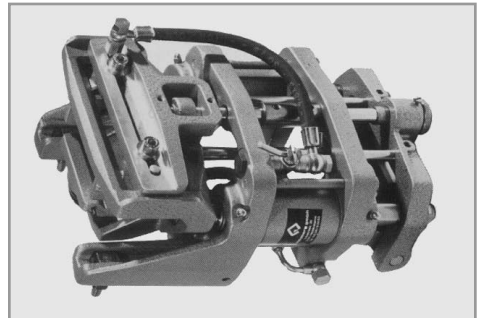
### Accessories

We supply all accessories such as electronic controls solenoid valves, gun mounting devices, compound feed pumps, pressure tanks, air and compound hoses, etc. Furthermore, we also install and maintain our guns.

Widoberg applicators for bar compound.

Model WPZ 80 for maximum bar dimensions of 500 x 80 x 40 (h) mm (19 5/8" x 3 1/8" x 1 9/16" high).

WPZ 150 for maximum bar dimensions of 500 x 150 x 40 (h) mm (19 5/8" x 5 7/8" x 1 9/16" high).



**widoberg  
gmbh**

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