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## Spare Parts Lists

### Ordering Spare Parts

When ordering spare parts for powder coating equipment, please indicate the following specifications:

1. Type, and serial number of your powder coating equipment
2. Order number, quantity, and description of each spare part

Example:

1. Type MPS 1-F, Serial no : xxxx xxxx
2. Order no : 201 073, 5 pieces, fine wire fuse

When ordering cable or hose material the length required must also be given. The spare part numbers of yard/metre ware always begins with 1.. ... and are always marked with an \* in the spare parts list.

Wear parts are always marked with a #.

All dimensions of plastic powder hoses are given as external diameter (o/d), and internal diameter (i/d) :

e.g. ø 8 / 6 mm, 8 mm outside diameter (o/d) / 6 mm inside diameter (i/d)

## PG 1 Powder gun

### Notes:

1. Only those parts have been included in the spare parts list that can be replaced by the user without difficulty.
2. If a part of the shaft (**3**) be broken or the High-Voltage cascade in the shaft is defective, then the complete shaft must be returned to a Gema-Volstatic service centre to be inspected and/or repaired. The High-Voltage cascade is fitted according to a special process and therefore should not be dismantled by the user.
3. If the gun cable (**12**) is defective, the complete gun cable assembly should be returned for repair.

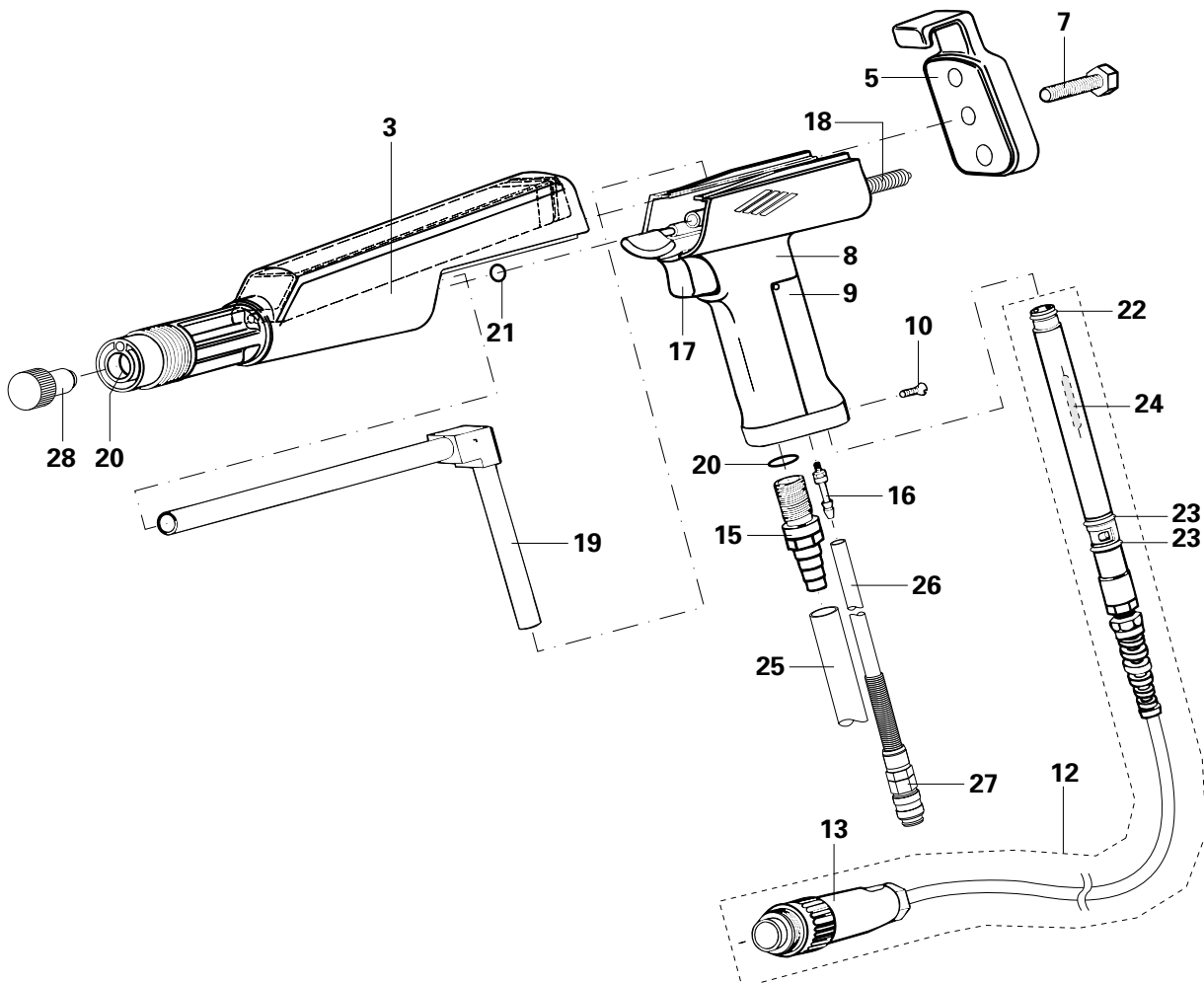


Figure 1

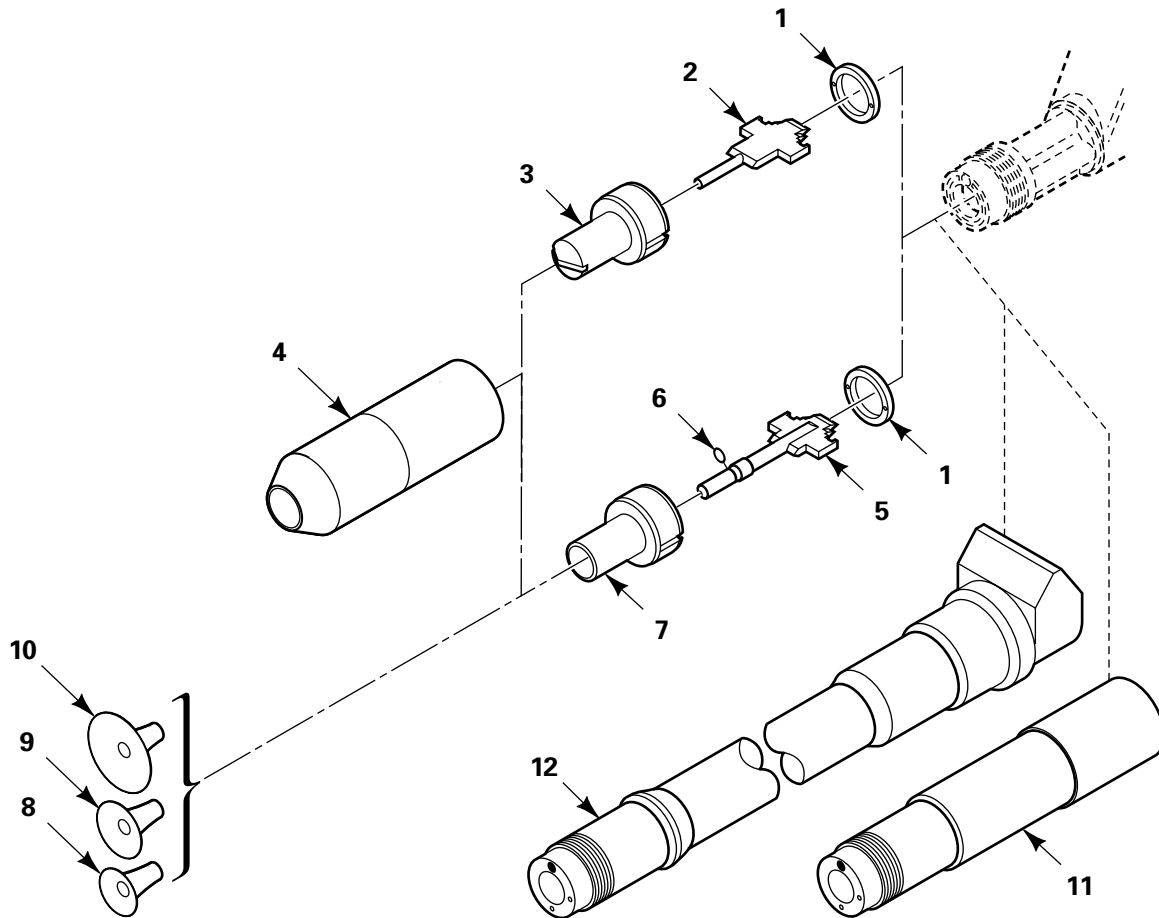
## PG 1 Powder gun

	<b>PG 1</b> Manual powder gun, complete, including : Gun cable - 6 m, Rinsing air and powder hose - 6 m, 40 mm Flat jet nozzle, and small parts set	337 722
	<b>PG 1</b> Manual Powder gun	332 348
3	Shaft assembly, complete with shaft, cascade, O-rings - items 20 / 21 - Negative polarity - Positive polarity	338 249 338 257
5	Cover with hook	330 043
7	Plastic bolt M 8x35	328 847
8	Hand grip	330 035
9	Grounding plate	328 863
10	Lock screw - M 4x10	232 637
12	Gun cable, complete with 6 m cable Gun cable, complete with 11 m cable	328 740 336 025
12.1	Extension cable - 5 m (for gun cable - item12)	334 464
12.2	Cable - only (for item 12)	102 911*
13	7- pin plug	200 085
15	Powder hose connector with O-ring (item 20)	333 727
16	Rinsing air connector	328 820
17	Trigger with switching magnet	333 662
18	Spring	331 651
19	Powder tube	333 700#
20	O-ring - $\varnothing$ 13.1x1.6 mm	232 670
21	O-ring - $\varnothing$ 6.1x1.6 mm	233 099
22	O-ring - $\varnothing$ 7.65x1.78 mm	232 564
23	O-ring - $\varnothing$ 10.82x1.78 mm	232 556
24	Reed contact	328 910
25	Powder hose - $\varnothing$ 16 / 11 mm	103 128*#
26	Rinsing air hose - $\varnothing$ 6 / 4 mm	100 854*
27	Quick-release connection - $\varnothing$ 6 / 4 mm	200 840
28	Special extractor tool (for item 19) Spiral brush (for item 19)	340 839 333 514

\* Indicate length required

# Wear parts

## Nozzle combination for PG 1



	Flat Jet Nozzle Set (items 1, 2, 3)	319 350
	Round Jet Nozzle Set (items 1, 5, 6, 7)	351 717
1	Contact ring	318 760
2	Electrode holder - complete (Flat Jet Nozzle - Tefzel - <i>Standard</i> )	318 779#
2.1	Electrode holder - complete (Flat Jet Nozzle - Teflon)	358 126#
3	Flat Jet Nozzle	318 744#
4	Threaded sleeve	328 774
5	Electrode holder, incl. item 6 (Round Jet Nozzle - <i>Standard</i> )	351 709#
5.1	Electrode holder, incl. item 6 (Round Jet Nozzle - Double electrode)	347 329#
6	O-Ring - $\varnothing$ 5x1 mm	231 606#
7	Round Jet Nozzle	331 287#
8	Deflector - $\varnothing$ 16 mm	331 341#
9	Deflector - $\varnothing$ 24 mm	331 333#
10	Deflector - $\varnothing$ 32 mm	331 325#
11	Extention tube - 150 mm	347 310#
12	Extention tube - 300 mm	353 310#
12.1	Extention tube - 500 mm	352 500#

**Other lengths on request!**

Figure 2

# Wear parts

## PI 3-V Injector

	Injector complete ( <b>without</b> items 10, 11, 12, 13, 14)	345 318
1	Check valve - conveying air (complete-incl. items 5, 6)	239 135
2	Check valve (with notch) - suppl. air (complete-incl. items 5, 6)	239 143
3	Injector body	344 311
4	Elbow connection - 1/8"-1/8"	237 604
5	Ball	240 168
6	Spring	240 176
7	Hose fitting - Tefzel	344 338#
7.1	Hose fitting - Teflon	354 201#
8	Injector nozzle (with notch) - $\varnothing$ 1,6 mm	365 912#
8.1	Injector nozzle (without notch) - $\varnothing$ 1,8 mm	343 552#
9	O-ring - $\varnothing$ 16x2 mm	231 517
10	Quick-release connector - $\varnothing$ 8 / 6 mm	203 181
11	Conveying air hose - $\varnothing$ 8 / 6 mm (red)	103 500*
12	Supplementary air hose - $\varnothing$ 8 / 6 mm (black)	103 756*
13	Screw coupling for hose $\varnothing$ 8 / 6 mm	201 316
14	Powder hose - $\varnothing$ 16 / 11 mm for PG 1 Manual gun	103 128*#

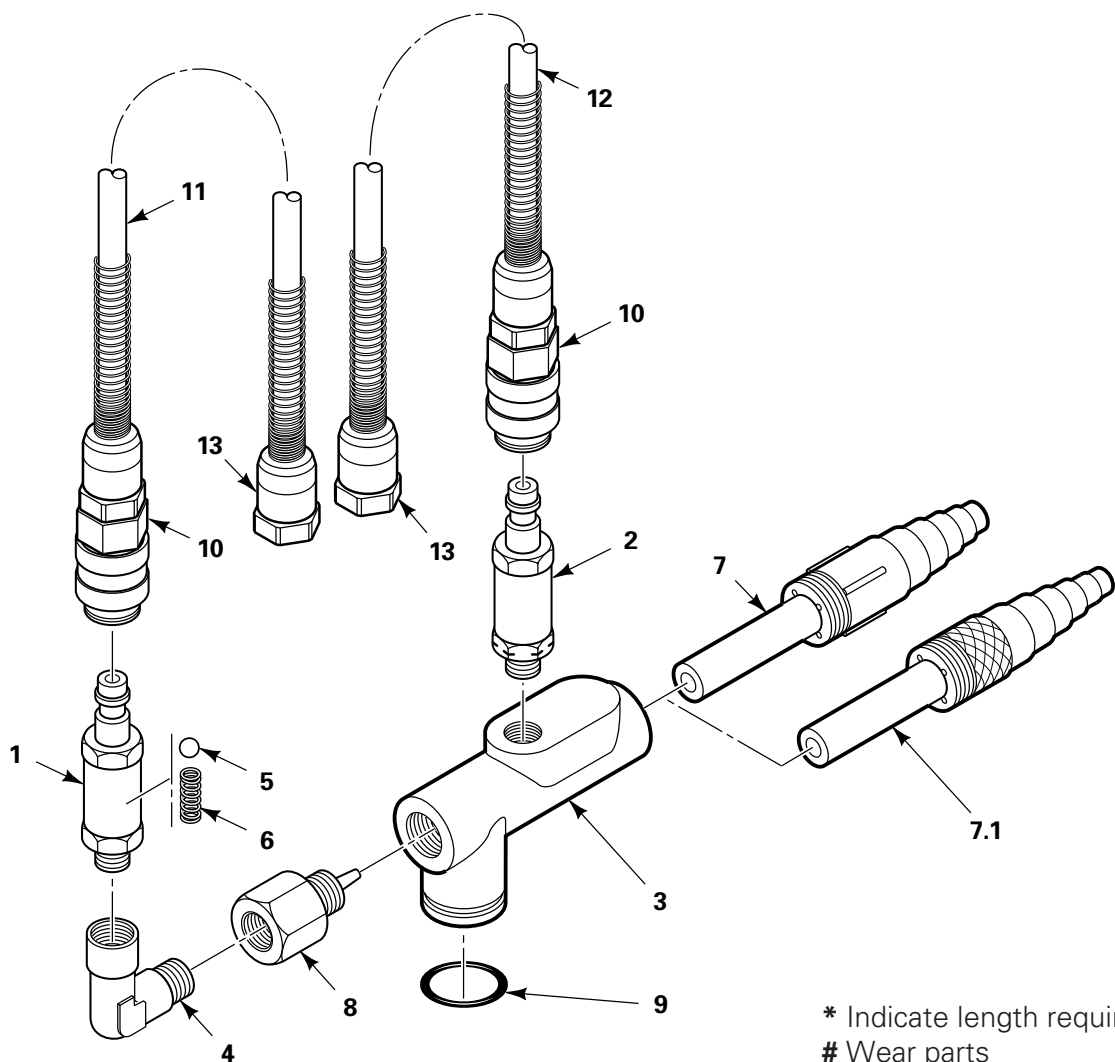


Figure 3

\* Indicate length required  
# Wear parts

## PGC 1 Control module

### Electrical Parts

	PGC 1 Control module (complete)	340 057
1	Fixed plug, with gasket (for Mains connection)	200 409
2	Knurled grounding nut - M 6	200 433
3	Socket - 4 pin	205 249
4	Socket - 7 pin	200 093
5	Plug - 12 pin B1 - B12	338 770
6	Plug - 12 pin A1 - A12	338 761
7	Printed circuit board - CB1	327 190
8	Potentiometer - complete	349 585
8.1	Potentiometer	235 792
8.2	Clamp nut - M 10x0.75	235 881
8.3	Stop ring	349 518
8.4	Potentiometer holder	342 327
8.5	O-Ring - $\varnothing$ 6x1 mm	217 115
9	Washer	200 271
10	Clamp nut - M 12x1	200 700
11	Regulating knob	200 069
12	Transformer	235 555
13	Fuse holder - F1	200 131
	Fine wire fuse (slow blow) 0.5A T for 200-240V	201 073#
	Fine wire fuse (slow blow) 1.0A T for 100-120V	210 242#
13.1	Fuse holder - F2 (without neutral conductor)	200 131
14	Lamp unit	235 946
15	Contact unit	235 938
16	Adapter fixture	235 920
17	Bulb - 24V /2W	235 954#
18	Switch	235 911
19	Mains cable connection (single plug)	303 607
20	Mains cable connection (two plugs)	343 366
23	Clamp nut - PG 7	230 537
24	Lead-through - PG 7	235 989
25	Cover plate	340 022
26	Quick-release screw	210 625
27	Sealing strip - 9x6 mm	100 269*
28	Socket cap	206 474
29	Gasket	336 300

\* Indicate length required

# Wear parts

### Electrical parts

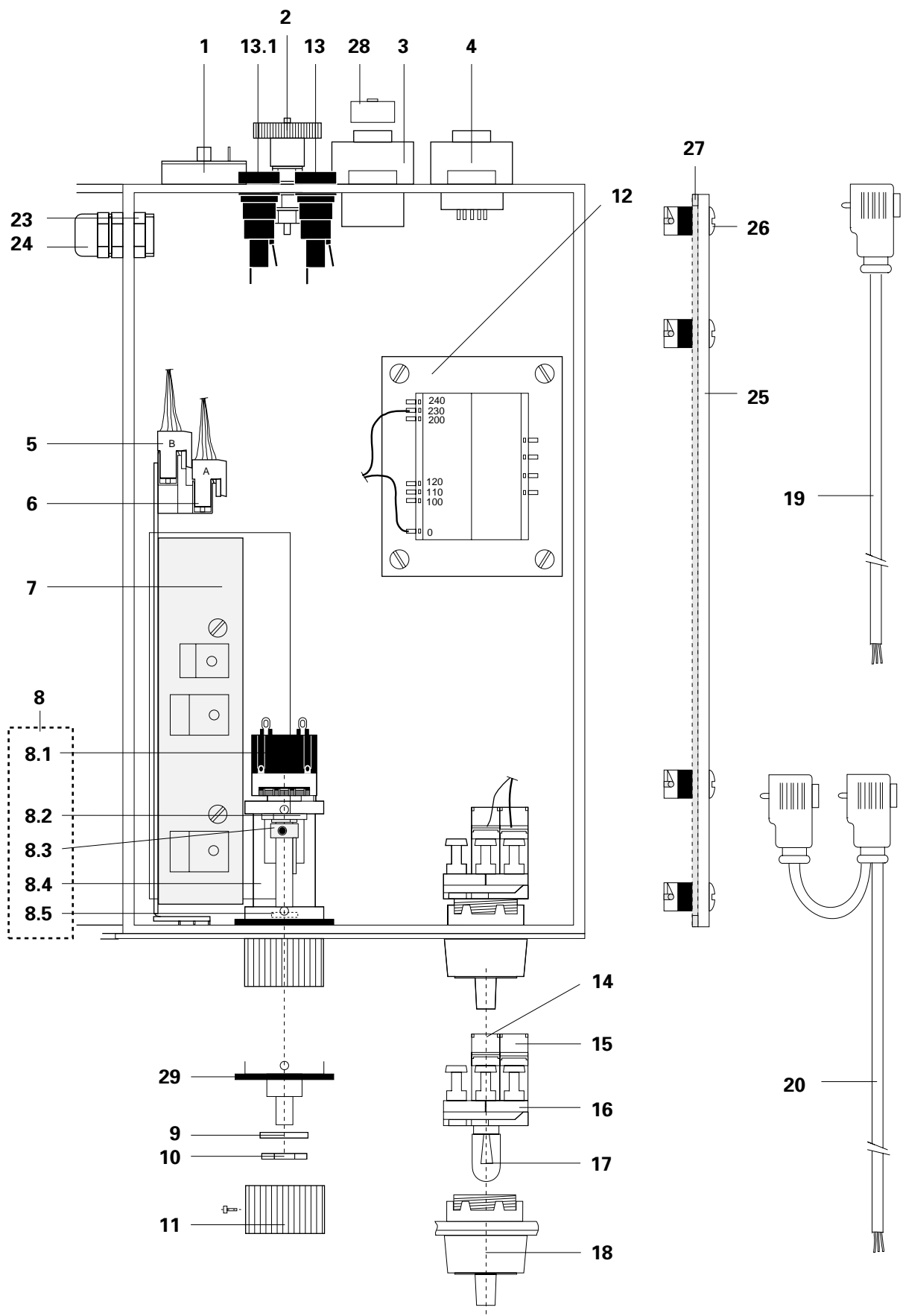


Figure 4

## PGC 1 Control module

### Pneumatic parts

A.	Air input unit complete	336 610
1	Quick-release coupling - $\varnothing$ 8 / 6 mm	203 181
3	Screw coupling for $\varnothing$ 8 / 6 mm hose	201 316
4	Screw connector for $\varnothing$ 6 / 4 mm hose	241 792
5	Quick-release coupling for $\varnothing$ 6 / 4 mm hose	200 840
6	Quick-release connector	241 784
7	Pressure reducing valve	235 830
8	Solenoid valve (24 VAC - 3/8" B.S.P. thread)	235 865
8.1	Solenoid valve spool	243 930
9	Pressure reducing valve	235 822
10	Control knob	200 069
11	Clamp nut - M 14x1	302 163
12	Pressure gauge ( 0-4 bar)	235 814
13	Throttle valve	238 244
14	Supplementary air flowmeter (2-8 m <sup>3</sup> /h)	347 280
15	Rinsing air flowmeter (0.5-3.5 m <sup>3</sup> /h)	347 299
16	Hose (black) - $\varnothing$ 8 / 6 mm	103 756*
17	Hose (red) - $\varnothing$ 8 / 6 mm	103 500*
18	Hose (black) - $\varnothing$ 8 / 6 mm	103 756*
19	Hose (transparent) - $\varnothing$ 6 / 4 mm (Manual)	100 854*
20	Quick-release fitting - $\varnothing$ 8 mm	242 373
21	Adaptor (1/4"-3/8")	223 239
22	Elbow connector (3/8"-3/8")	223 158
23	Y connector (3/8"- $\varnothing$ 8 mm)	235 873
24	Hose (black) - $\varnothing$ 6 / 4 mm	103 144*
25	T-connector - $\varnothing$ 6 mm	237 310
26	Quick-release connector (1/8"- $\varnothing$ 6 mm)	233 412
27	Quick-release connector (1/8"- $\varnothing$ 6 mm)	240 087
28	Quick-release connector (1/8"- $\varnothing$ 8 mm)	240 095
29	Solenoid cable	336 602

\* Indicate length required



Pneumatic parts

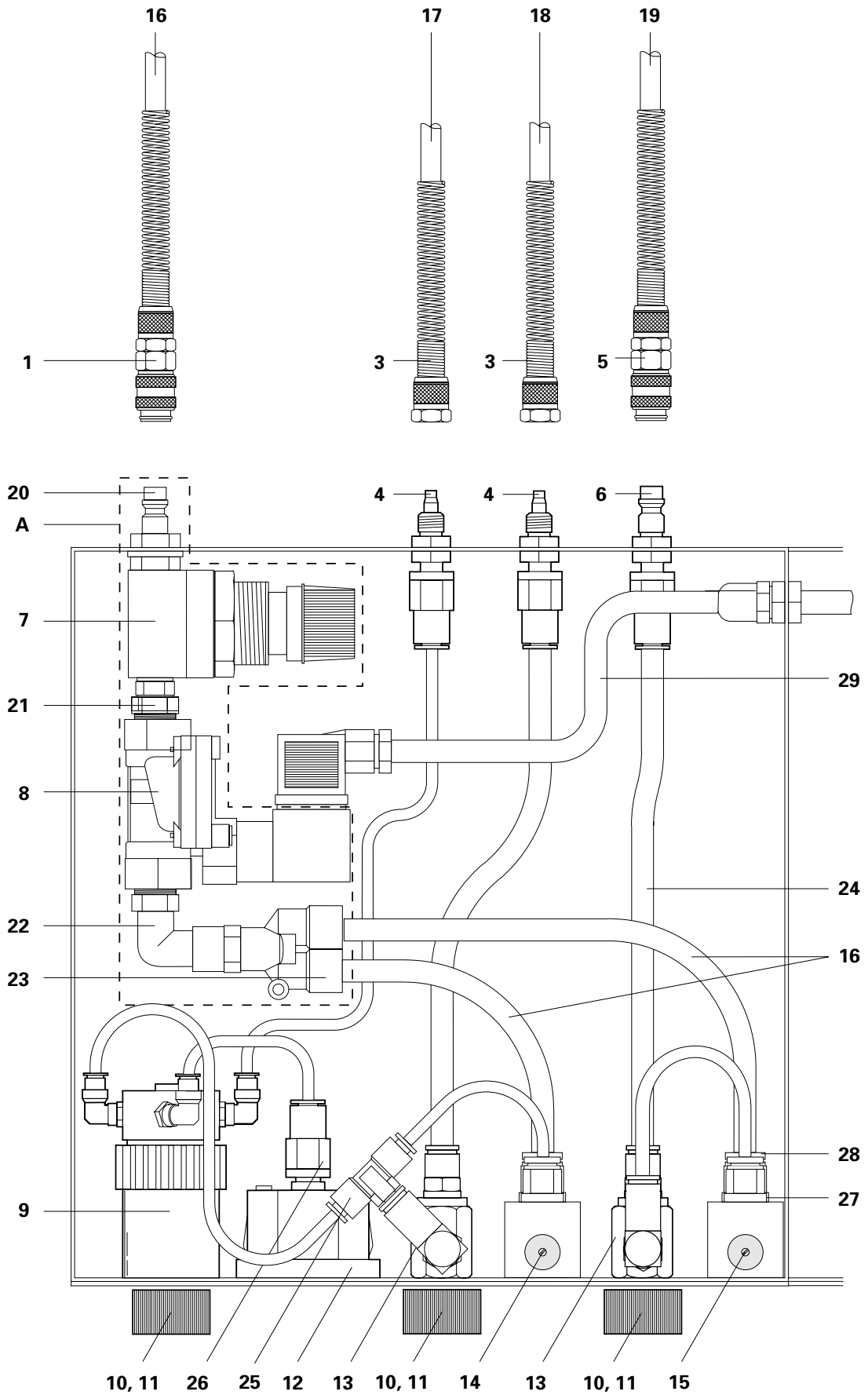


Figure 5

## Powder hopper PH 50-D for MPS 1-F / MPS 2-F

	Hopper complete (without cover)	367 095
1	Venting hose (without Airmover - ø 40 mm x 3 m.)	100 048#
3	Hopper cover	367 001
3.1	Inspection cover complete	366 870
4	Rubber seal (1.24 m)	103 837*
5	Powder hopper body	367 087
6	Fluidizing plate	362 387#
6.1	Rubber seal	348 694
7	Clamp band	341 924
8	Fluidizing air chamber	340 898
9	Elbow joint	200 875
11	Quick-release hose connector	200 859
12	Quick-release connection for fluidizing air hose	203 181
13	Fluidizing air hose	103 756*
14	Suction tube - complete (incl. Items <b>14.1</b> and <b>15</b> )	339 130
14.1	Suction tube	336 491
15	Injector support	336 483
16	Lock nut	234 869
17	Plug cap - Injector opening	223 220
20	Plug cap - Powder recovery opening (ø 100 mm)	244 147
22	Inspection cover seal (0.65 m)	103 837*
29	Venting hose adapter complete	361 410
32	Hopper cover (No holes)	367 010#

\* Indicate length required

# Wear parts

## Powder hopper PH 50-D for MPS 1-F / MPS 2-F

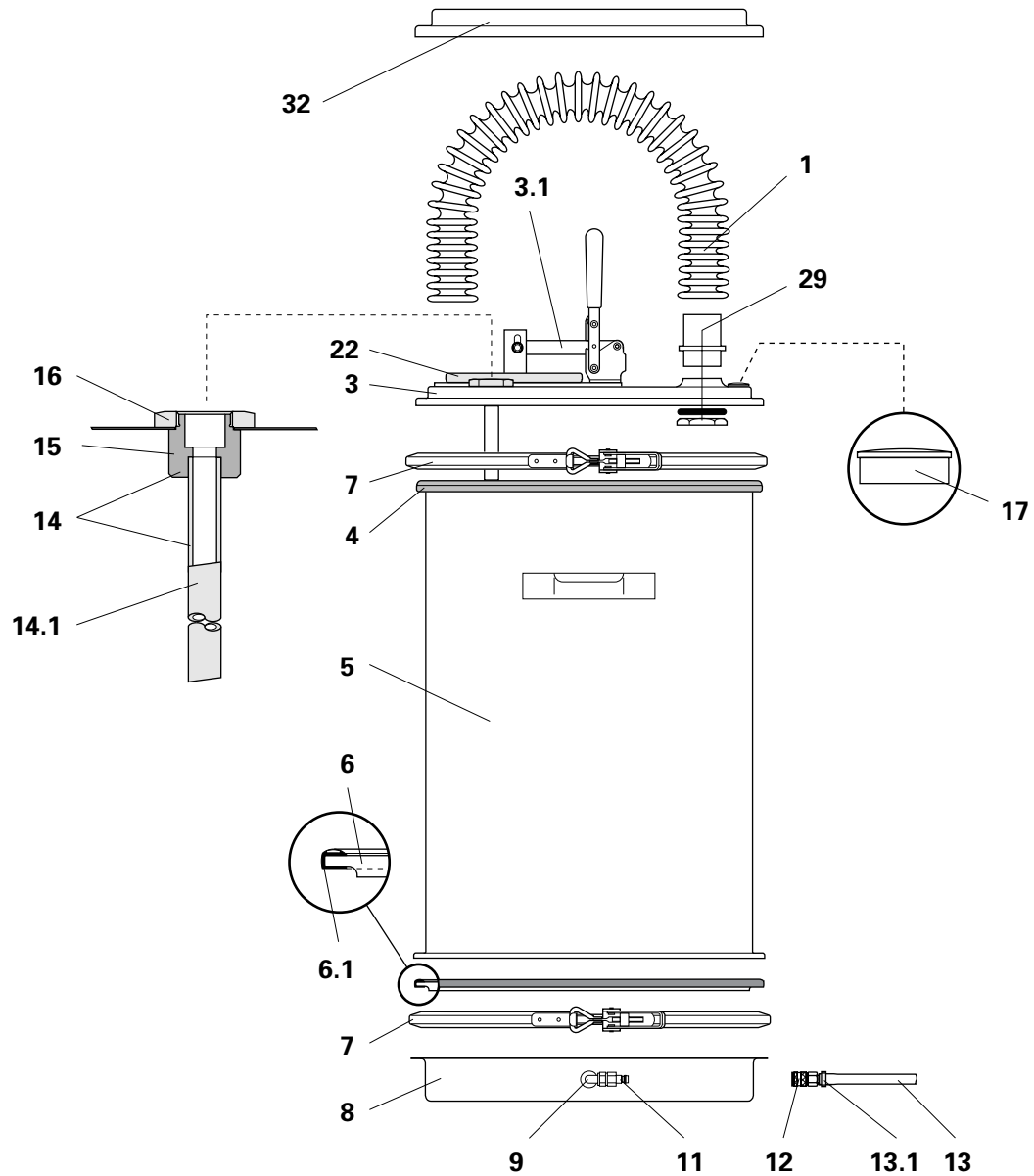
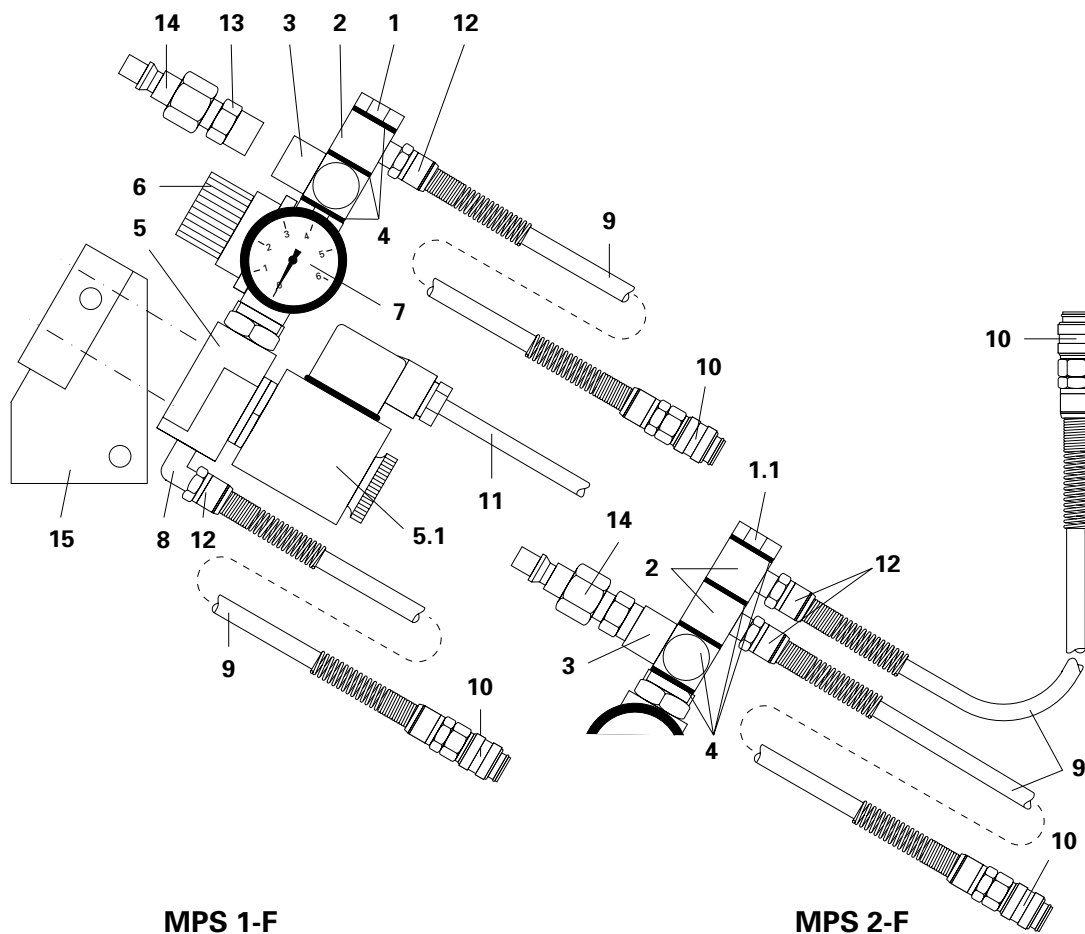


Figure 6

## Fluidizing unit

For MPS 1-F complete	346 098
<b>(without</b> items 9, 10, 11, 12, 13, 14, 15)	
For MPS 2-F complete	346 101
<b>(without</b> items 9, 10, 11, 12, 13, 14, 15)	
1 Air connection adapter for MPS 1-F	227 838
1.1 Air connection adapter for MPS 2-F	236 055
2 Air connection ring - $\varnothing$ 8 mm-1/4"	231 886
3 Main air connection - 1/4" (female) B.S.P. thread	236 063
4 Gasket - $\varnothing$ 13.4x18.0x1.8 mm	225 487
5 Solenoid valve (compl.)	242 217
5.1 Solenoid valve coil	251 046
6 Pressure reducing valve	242 225
6.1 Adapter	242 209
7 Pressure gauge	237 060
8 Elbow connector - $\varnothing$ 8 mm-1/8"	242 853
9 Hose for fluidizing air $\varnothing$ 8 / 6 mm (black)	103 756*
10 Quick-release connector - $\varnothing$ 8 / 6 mm	203 181
11 Solenoid valve cable for MPS 1-F	336 629
11.1 Solenoid valve cable for MPS 2-F	342 254
12 Screw connector	201 316
13 Adapter	202 479
14 Quick-release connector - 1/4"	203 106
15 Fluidizing unit bracket	346 110



**MPS 1-F**

**MPS 2-F**

\* Indicate length required

Figure 7

## MPS 1-F - MPS 2-F

1	Control unit housing	336 548
2	Gun holder	301 086
3	Milled nut - M4	201 090
4	Control unit support	336 270
5	Base plate	336 297
6	Trolley wheels	202 215

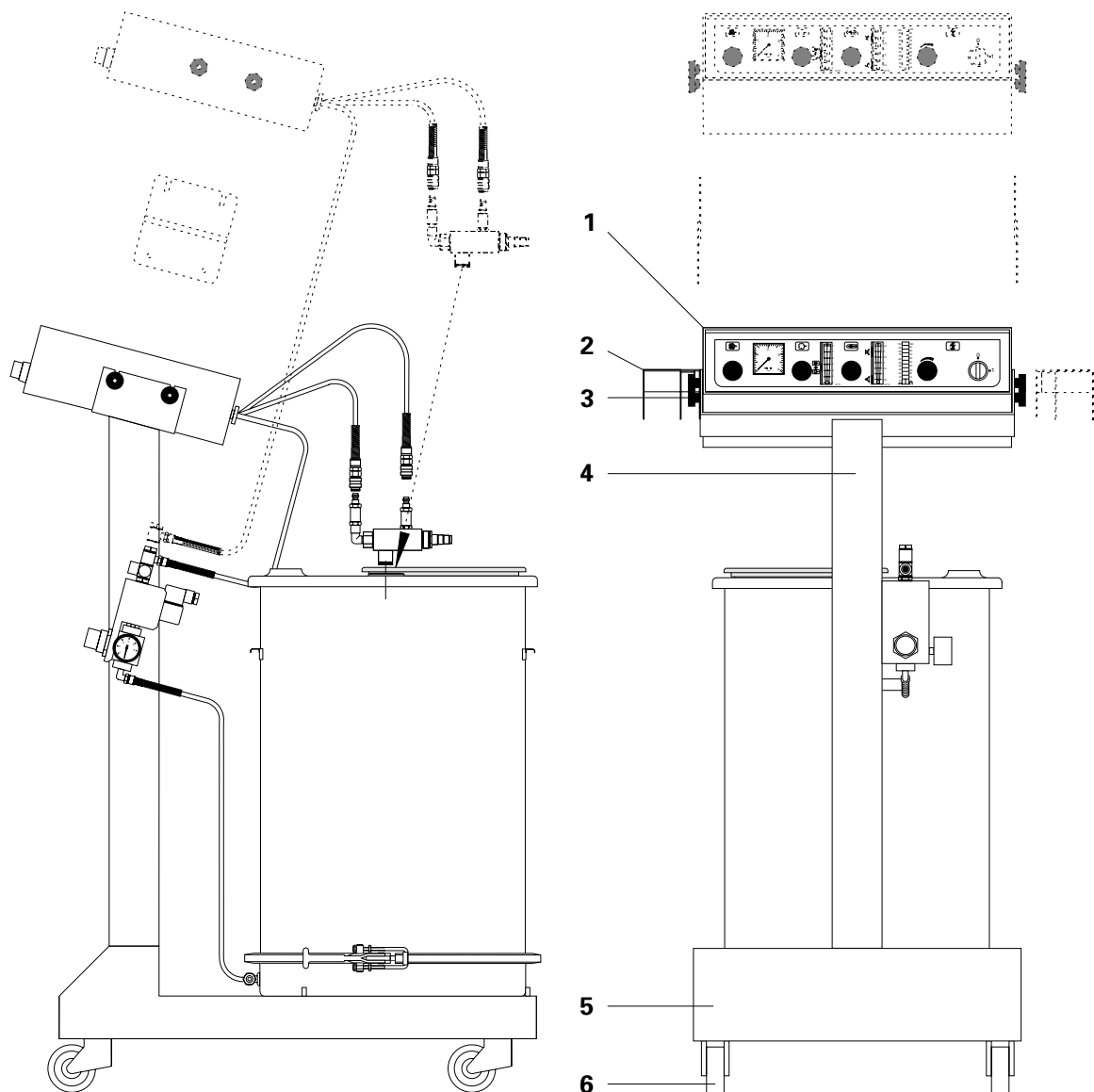


Figure 8

Documentation MPS 1-F / MPS 2-F / PG 1

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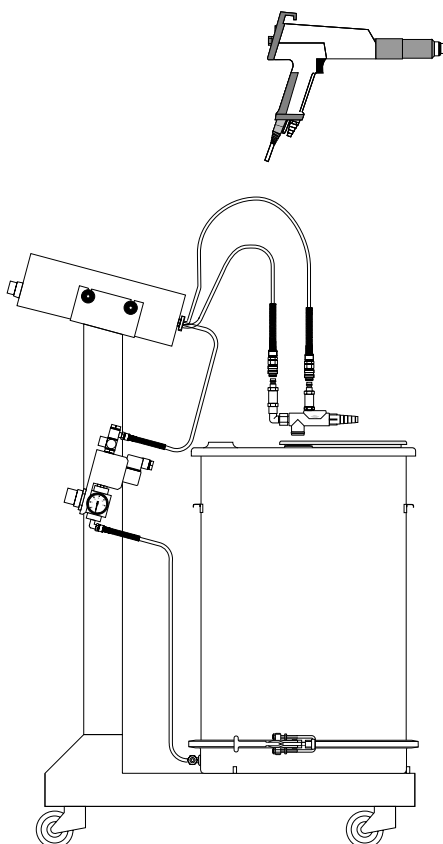
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Operating Instructions and Spare Parts List

# MPS 1-F / MPS 2-F Manual Powder System with the PG 1 Powder Gun







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## Table of Contents

Ordering Spare Parts .....	1
PG 1 Powder gun .....	2
Nozzle combination for PG 1 .....	4
PI 3-V Injector .....	5
PGC 1 Control module .....	6
Electrical Parts .....	6
Pneumatic parts .....	8
Powder hopper PH 50-D for MPS 1-F / MPS 2-F .....	10
Fluidizing unit .....	12
MPS 1-F - MPS 2-F .....	13