



Airspray spraying & equipment



Catalog **v5.3**

"Manufacturer since 1925, bringing you the very best of the finishing applications"

Apply your Skills

SAMES KREMLIN reserves the right to modify the equipment introduced in this catalogue as well as their specifications without notice.
Any representation or reproduction, even partial, carried out by any means whatsoever, and without **SAMES KREMLIN**' prior knowledge and agreement, is illegal, and constitutes counterfeiting and infringement as sanctioned by the articles L.335-2 and following of the Intellectual Property code.
Document, products and pictures shown are not contractual - Cyril B. Graphic designer - Contact: marketing@sames-kremlin.com
Printed in France - Feb. 2021 - Ref: **573 725 002**



Editor's note



To help you increase your competitiveness, **SAMES KREMLIN** dedicates itself daily to excellence in terms of innovation and reliability.

We are constantly improving our performances as well as quality to meet your specific needs.

We also help you define the equipment allowing your installation to comply with V.O.C. directives and industry standards.

We enable you to benefit from reliable technologies while ensuring you a swift return on investment.

In this catalog, you will find the equipment that will enable you to reach the paint application results you are targeting and the finish quality you desire.

Our mission is to provide you with the best equipment to meet your needs and requirements.

The entire team at **SAMES KREMLIN** is at your disposal to answer your questions.

Enjoy your reading.

Table of contents

PRODUCTS RANGE

MANUAL SPRAY GUNS

FPro P
FPro P WBE
FPro LOCK P
Packs range FPro P
FPro S
FPro G
FPro GSP
Smart Cups
FStart P
FStart S
FStart G
S3 G
S3 A
S3 P

AUTOMATIC SPRAY GUN

A35 LP (HTI)
A 35 HPA
A25F HPA Flowmax® gun
A 29 HTi
A 29 HPA
A28 HPA
A3 HPA

PRESSURE TANKS

Airspray Tanks
Funnel for pressure pot

DIAPHRAGM PUMPS

PMP 150 pump
PMP 150 Pratik pump
PMP 150 E Pump
PMP 150 transfer pump
01D140 / 01D140E
04D140

CUP PISTON PUMPS

02C85 Airspray paint pump
04C240 Airspray paint pump
08C240 Airspray paint pump

FLOWMAX® PISTON PUMPS

PCS 03R440 FLOWMAX® paint pump
04F240 FLOWMAX® paint pump
PCS 04F440 FLOWMAX® paint pump
PCS 06R440 FLOWMAX® paint pump
08F240 FLOWMAX® paint pump
PCS 08F440 FLOWMAX® paint pump

14	MECHANICAL & ELECTRONIC DOSING	78
14	PU 2125 F pump	78
16	PU 3000 2l	79
17	CYCLOMIX™ Micro and Micro+ PH	80
20	CYCLOMIX™ Multi and Multi PH	81
24	CYCLOMIX™ Expert	82

28	FLUID REGULATORS AND FILTERS	84
30	Fluid regulators	84
32	Manual control	85
34	Manual drive and integrated pilot	85
36	Piloted control	86
39	Back pressure regulator	87
40	Regulators, filters and lubricators	89

41	AGITATORS	90
46	Cyclix™ drum cover agitators	90

48	TROLLEY	92
50	Compatibility of trolleys	92

52	HEATER	93
54	Magma 500	93

57	FLUID LINE	94
58	Circulation accessories	94
58	CTM Color Change Valves	95
60	Rod's	96
62	Fluid hoses	98
62	Air Hoses	102
64	Non conductive hoses	104

65	MISCELLANEOUS	105
66	Lubricants & greases	105
67	RC 756 respirators	106

68	PROTECTION	106
69	Protective overalls	107

70	GENERAL INFORMATIONS	108
71	Paint	108
72	Surfaces preparation	109
72	Components of paint	110
73	Paint consistency	111
74	Drying of paints	113
74	Practicals pages	114
75	Practical information	118

77		
-----------	--	--

CUSTOMER SATISFACTION

SAMES KREMLIN HAS WORKED OUT A COMPLETE OFFER OF SERVICES, ADAPTED TO ALL YOUR NEEDS:

Advice, repair, servicing, adjustment or intervention by a qualified technician. Whatever your request may be, **SAMES KREMLIN** Customer satisfaction department, is at your disposal to answer your needs within the shortest time.



> HOTLINE



SAMES KREMLIN has a quality hotline which takes care of our customer satisfaction. please fill free to contact us. our customer service team would like to provide an answer under 48 hours.

+33 (0)1 49 40 25 28

MONDAY TO FRIDAY: 8:30 - 12:00 AM & 13:00 - 17:30 PM

> AUDIT



In order to make the most from your installation, paint or powder, advice and expertise of specialists are essential. Made of practical, experienced members, **SAMES KREMLIN** customer support team will carry out a diagnostic of your installation and will provide you with a worthy technical assistance for the improvement or retrofit of your paint line.

> REPAIR



A regular, and carried out professionally, maintenance or a retrofit of your equipment, is the best way to guaranty the correct running of your equipment. To this end, do not hesitate to contact one of our technicians:

- to get technical advice or technical assistance by phone
- to get one of your product repaired or controlled
- to carry out a retrofit

> SPARE PARTS



Original spare parts guaranty the correct running of your equipment. We are here to deal with all your orders of spare parts throughout the world. Thus, our aim is to rapidly supply you and at the best price, with the wished part in order to guaranty an optimum and prolonged running of your paint or powder application equipment.

> TRAINING



SAMES KREMLIN is registered as a training centre by the French Ministry of Employment. Training sessions that allow you learning the requisite knowledge to the use and the maintenance of your equipment are organised throughout the year. A catalogue can be obtained upon request. You will be then able to choose among the proposed selection of training courses, the type of training that meets your needs or production aims. These training sessions can be organised within your premises or in our training centre located in our headquarters in Meylan - FRANCE.



QUALITY INSURANCE

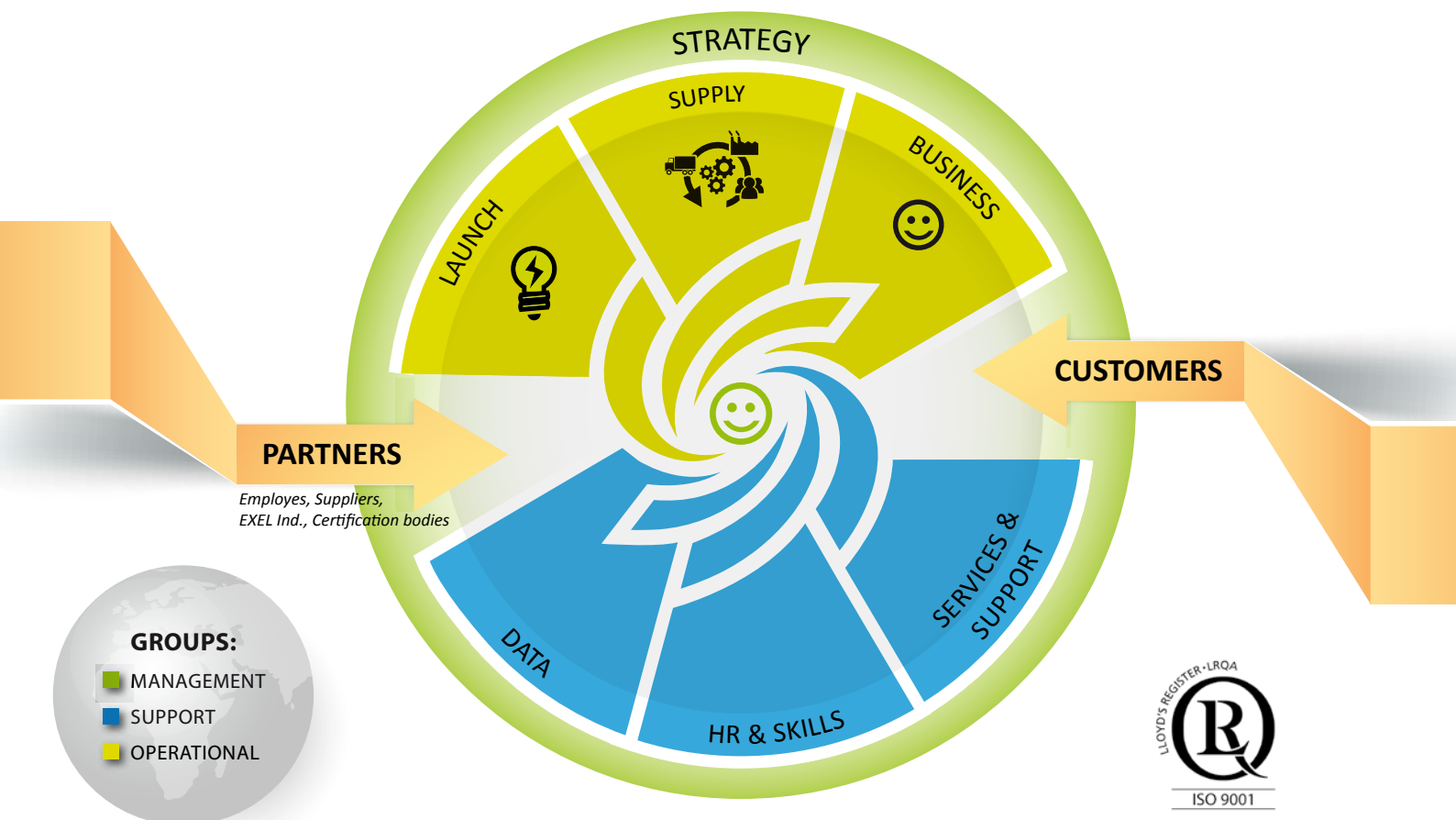
In conformity with the ISO9001 standard - issue 2015, the requisite procedures and registrations are mastered. The seriousness with which **SAMES KREMLIN**'s quality policy is dealt ensures you an optimum quality at each stage of the production and of the assembly of the components.

Our products are in the scope of the following European directives:

- 2014/34/UE Explosive Atmospheres
- 2006/42/CE Machinery
- 2014/35/UE Low Voltage
- 2014/30/UE Electromagnetic Compatibility
- 2011/65/UE RoHS Restriction of Hazardous Substances in electrical and electronic equipment
- 2012/19/UE WEEE Waste of Electrical and Electronic Equipment
- 1907/2006/CE REACH Registration, Evaluation, Authorization and Restriction of Chemicals.

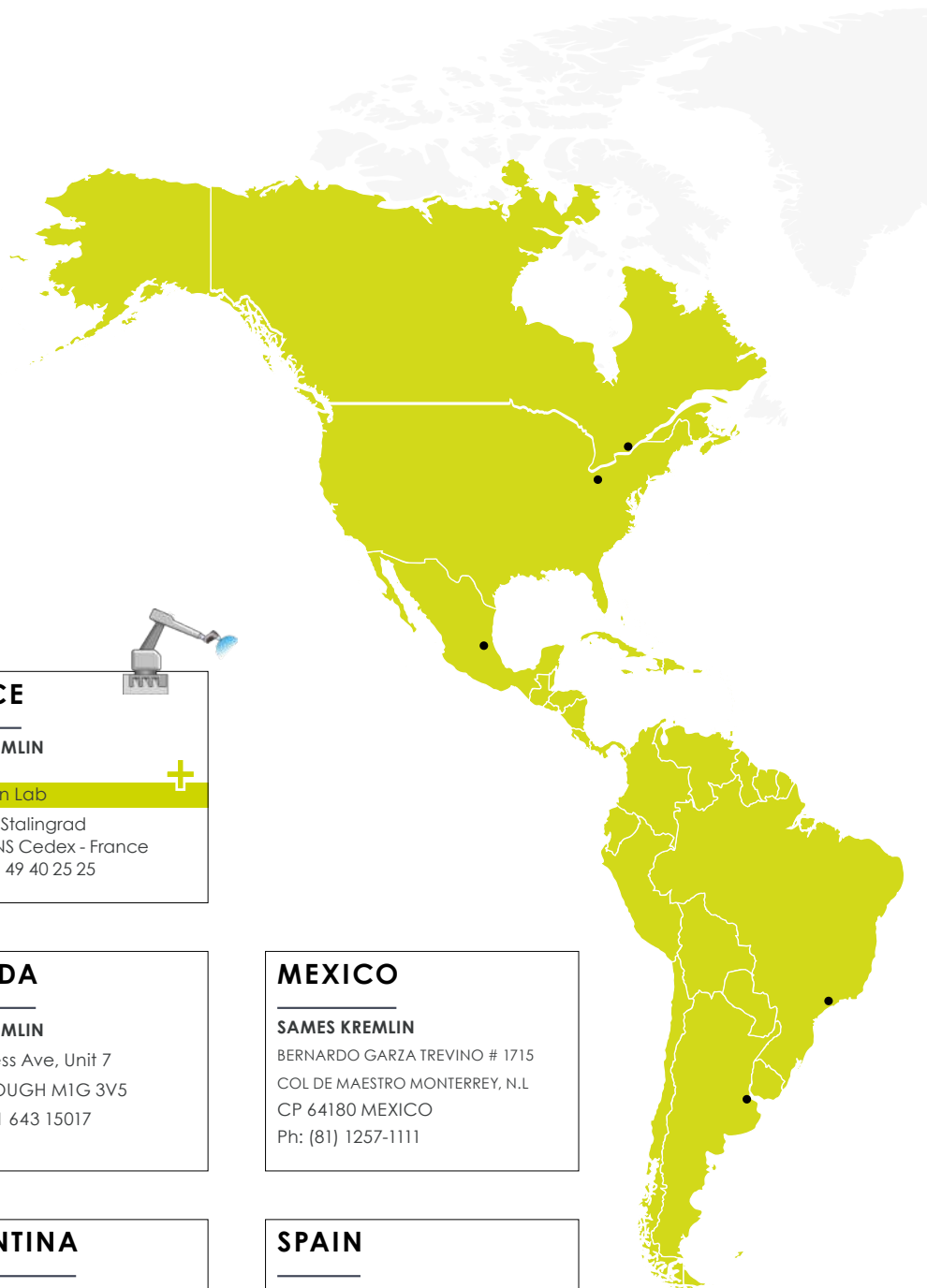
A process mapping allows organizing all the stages while being very attentive to the various environments (customers, competition...), to the audits (inner and outer) and to the indicators linked to the defined aims.

PROCESSES MAPPING



GLOBAL PRESENCE

17 Locations Worldwide



FRANCE

SAMES KREMLIN
Headquarter

Application Lab

13 chemin de Malacher
38243 MEYLAN Cedex - France
Ph: +33 (0)4 76 41 60 60

FRANCE

SAMES KREMLIN

Application Lab

150, av. de Stalingrad
93245 STAINS Cedex - France
Ph: +33 (0)1 49 40 25 25

USA

SAMES KREMLIN

Application Lab

45001 5 Mile Rd,
PLYMOUTH, MI, 48170
Ph: 734-979-0100

CANADA

SAMES KREMLIN

931, Progress Ave, Unit 7
SCARBOROUGH M1G 3V5
Ph: (00) 141 643 15017

MEXICO

SAMES KREMLIN

BERNARDO GARZA TREVINO # 1715
COL DE MAESTRO MONTERREY, N.L
CP 64180 MEXICO
Ph: (81) 1257-1111

BRAZIL

SAMES KREMLIN

Rua Alfredo Mario Pizotti, N.41
Vila Guilherme
SAO PAULO SP
Ph: (+ 5511) 2903 1200

ARGENTINA

SAMES KREMLIN

Avenida Juan Justo, 6021
C1416DLB CIUDAD DE BUENOS AIRES
Ph: +54 11 45 82 89 80

SPAIN

SAMES KREMLIN

C/Botánica, 49
08908 L'HOSPITALET DE LLOBREGAT
BARCELONA
Ph: +34.932641540

GERMANY

SAMES KREMLIN

Moselstrasse 19
D-41464 NEUSS
Ph: +49 213 13 69 22 00

GERMANY

INTEC SAMES-KREMLIN GmbH

High viscosity application Lab

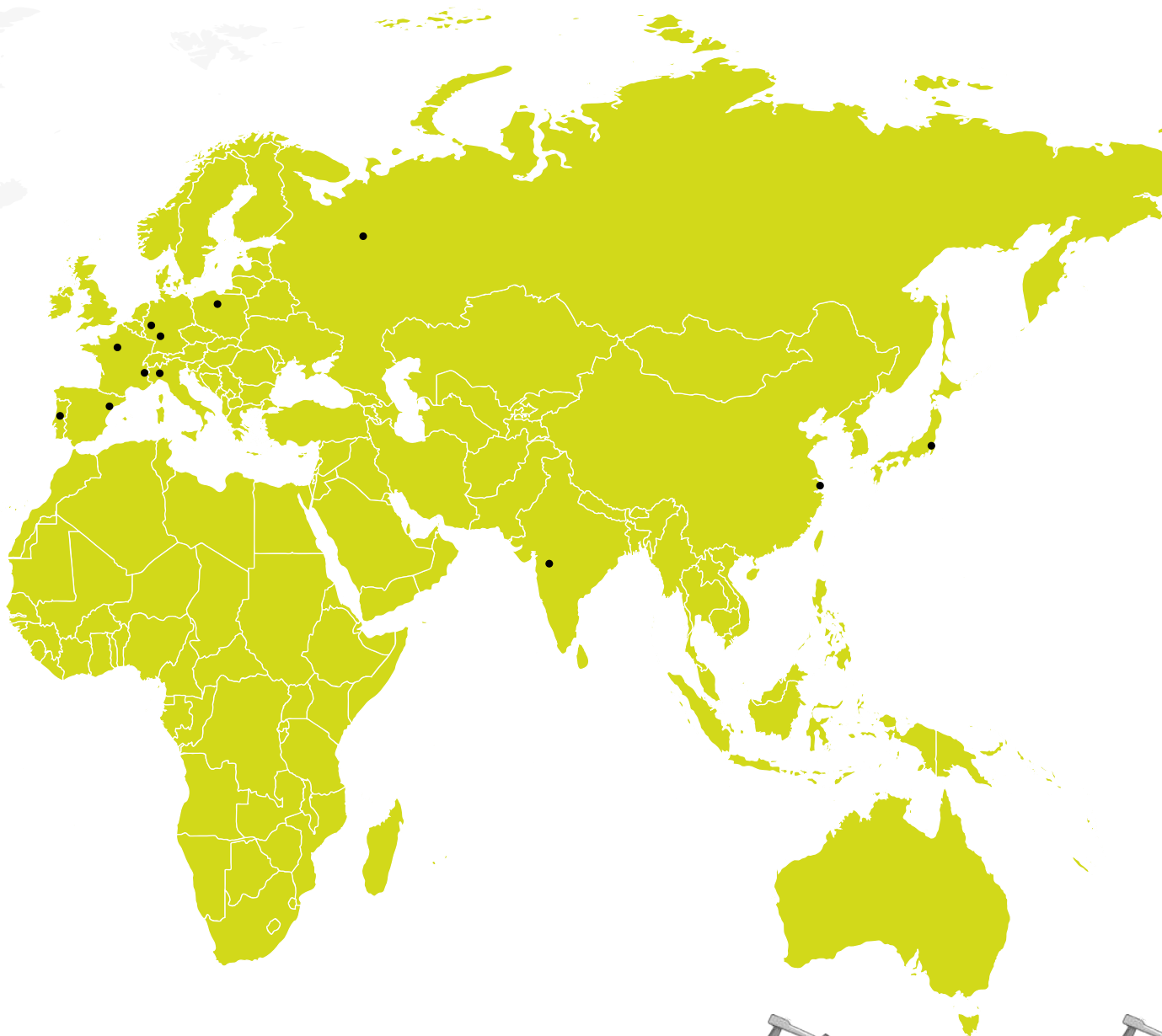
Otto - Hahn - Allee 9
50374 Erftstadt - Germany
Ph: +49 (0)2235 46558 - 0

ITALIA

SAMES KREMLIN

Linate Business Park
Strada Provinciale Rivoltana 35
20096 Pioltello (MI)
Ph: (+39) 02 - 48952815

GLOBAL PRESENCE

**POLAND****SAMES KREMLIN**

Modlinska 221B
International Business Park #05-109E
03120-WARSZAWA
Ph: +48 225 103850

RUSSIA**SAMES KREMLIN**

Application Lab since the
beginning of 2020
Rodionova str. 134.
603093, N. Novgorod - Russia
Ph: 007 831 467 8981

CHINA**SAMES KREMLIN**

Application Lab
Building No.9, No.3802 Shengang Road
Songjiang District
SHANGHAI 201613
Ph: 021-5438 6060

PORTUGAL**SAMES KREMLIN**

Rua da Silveira, 554 - Touria
2410-269 POUSOS LRA
Ph: +351 244 848 220

INDIA**SAMES KREMLIN**

GATno - 634, PUNE NAGAR Road, Wagholi
PUNE - 412 207
Ph: +91 20 30472700/01

JAPAN**SAMES KREMLIN**

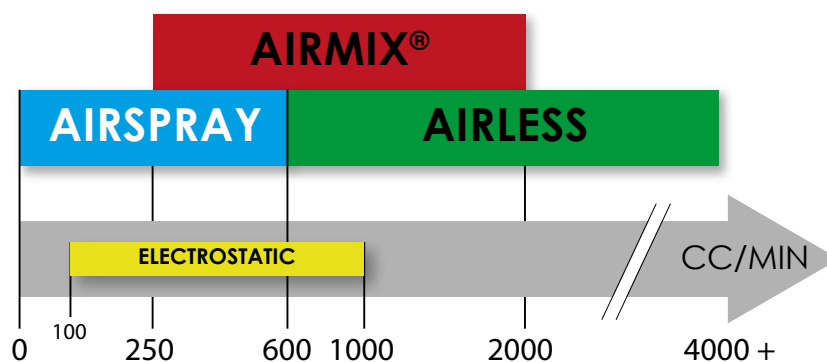
Takashima 2-19-12 - Sky Blig 20F
220-0003 YOKOHAMA - Nishi kanagawa
Ph: 045 412 5800
Mobile: 080 4203 3030

AIRSPRAY TECHNOLOGY

In 1924, **KREMLIN** introduces the first Airspray gun in Europe to the finishing industry. The popularity of this gun spread so quickly that all types of spray guns become known as "Kremlins".



➤ The place of the Airspray technology inside coatings technologies:



Recommended range of use

AIRSPRAY TECHNOLOGY

Airspray is commonly known as the low pressure spraying technology and operates up to 24 bar. It guarantees a high finishing quality with limited flow rate (generally under 600 cc/min).

For higher atomizing paint pressures, painters can go to the Airmix® technology with medium pressure giving a high finishing quality for high productivity requirements or the Airless technology with very high flow for very intensive production which does not request such high a quality of finishing.



> The equipment



THE AIRSPRAY range is designed for manual, automatic or robotic application. In addition to airspray, we have developed a complete range of electrostatic guns (please refer to the relevant catalogue)

The Airspray technology is largely known for its gravity feed spray gun. This is the simplest way to apply paint when small paint volumes are required (less than 5 l a day).

For larger paint volumes, a pressure feed Airspray gun is used, associated with air & fluid hoses and a feeding system (pump or pressure pot). Depending on the pump pressure ratio, a paint pressure regulator may be needed.



AIRSPRAY TECHNOLOGY

3 Technologies in Airspray

AIRSPRAY is divided into 3 technologies, each having their own benefits.

- **CONVENTIONAL** (previously HPA) :

This is traditional Airspray technology, able to spray viscous material (>40 s CA4) and offering the highest finishing quality.

- **HVLP** – High Volume Low Pressure (previously HTI - HVLP) :

Following a Californian rule from 1972, it was stated that the maximum air pressure at the aircap should be 0.7 bar/10 psi giving lower paint motion and a minimum of 65 % transfer efficiency.

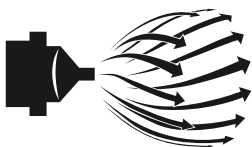
- **LVLP** – Low Volume Low Pressure (previously HTI) :

It is a hybrid technology between the HVLP and Conventional. It combines high spraying quality while insuring high transfer efficiency. It is recommended for medium viscosity (between 20 to 40 s CA4).

Criteria	HVLP	LVLP	Conventional
Viscosity < 20 s	****	***	*
Viscosity 20 s – 40 s	**	****	***
Viscosity > 40s		*	****
Spray Quality	Medium	Good	High
Air Consumption	High	Medium	Low
Transfer Efficiency	High	Good	Low
Speed of application	Low	Good	High
Type of material	Mat paint		Glossy paint

AIRSPRAY TECHNOLOGY

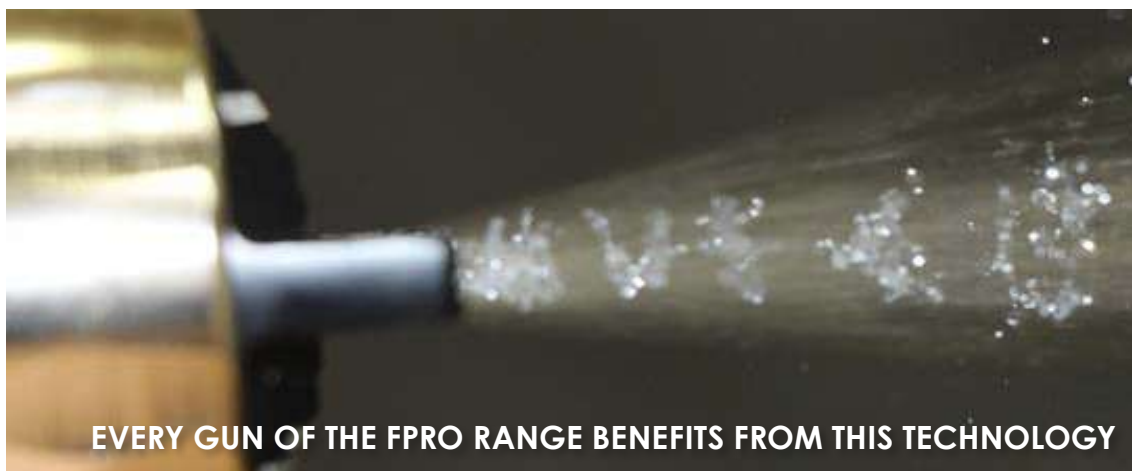
> Sames Kremlin's innovations



Vortex

The Vortex produces a swirling effect to the paint which allows the paint to leave the nozzle under an helical pattern shape which improves the homogeneity of the film build.

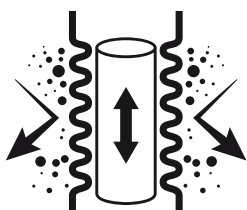
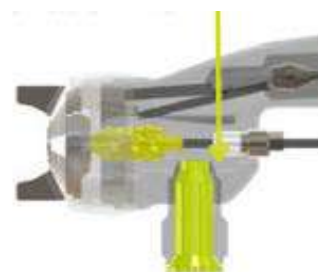
- No blotchy effect
- Better Transfer efficiency on complex parts.
- Reduced paint booth maintenance



Restrictor

The restrictor calibrates the flowrate and create a controlled pressure loss in the gun upstream.

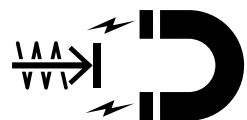
- Finer spray quality
- Reduced nozzle and needle wear
- Steady flowrate for optimal atomization



Flowmax® Patented

Flowmax® technology guarantees total sealing for leak-free pumps.

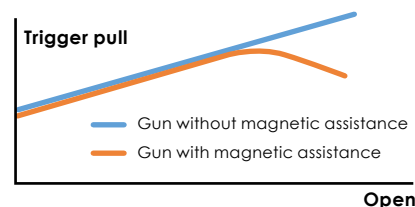
- Maintenance free pumps
- Fast ROI
- High durability



Magnetic assistance

The magnetic assistance is a gun innovation to reduce the trigger stress. A magnet at the end of the stroke attracts the needle when the trigger is pulled to reduce the trigger pull up to 20%.

- Lighter trigger pull
- No repetitive strain injuries



AIRSPRAY TECHNOLOGY

➤ How to select a nozzle ?

The selection of the nozzle is essential to correctly set up an Airspray gun. The below table gives the paint speed (in m/s) at the nozzle according to the flowrate (left column) and the nozzle used (top row).

The optimal paint speed corresponds to the green area. Out of this area, the speed is too high, leading to more overspray and lower transfer efficiency.

In some cases, the Restrictor technology is recommended (right column).

Speed in m/s	Nozzle size in mm											Restrictor advise
Flowrate in cc/min	0,5	0,7	0,9	1	1,1	1,2	1,3	1,4	1,5	1,6	1,8	
35	3	1,5	1	0,7	0,6	0,5	0,4	0,4	0,3	0,3	0,2	-
59	5	2,6	1,7	1,3	1	0,9	0,7	0,6	0,6	0,5	0,4	-
74	6,3	3,2	2,2	1,6	1,3	1,1	0,9	0,8	0,7	0,6	0,5	-
89	7,6	3,9	2,6	1,9	1,6	1,3	1,1	1	0,8	0,7	0,6	0,8
103	8,7	4,5	3	2,2	1,8	1,5	1,3	1,1	1	0,9	0,7	0,8
118	10	5,1	3,5	2,5	2,1	1,7	1,5	1,3	1,1	1	0,8	0,8 or 0,9
148	12,6	6,4	4,3	3,1	2,6	2,2	1,9	1,6	1,4	1,2	1	0,9
177	15	7,7	5,2	3,8	3,1	2,6	2,2	1,9	1,7	1,5	1,2	0,9
207	17,6	9	6,1	4,4	3,6	3,1	2,6	2,2	2	1,7	1,4	0,9 or 1
237	20,1	10,3	7	5	4,2	3,5	3	2,6	2,2	2	1,6	1
266	22,6	11,5	7,8	5,6	4,7	3,9	3,3	2,9	2,5	2,2	1,7	1 or 1,2
296	25,1	12,8	8,7	6,3	5,2	4,4	3,7	3,2	2,8	2,5	1,9	1,2
325	27,6	14,1	9,6	6,9	5,7	4,8	4,1	3,5	3,1	2,7	2,1	1,2
355	30,1	15,4	10,4	7,5	6,2	5,2	4,5	3,8	3,3	2,9	2,3	1,2
384	32,6	16,6	11,3	8,2	6,7	5,7	4,8	4,2	3,6	3,2	2,5	1,2 or 1,4
414	35,2	17,9	12,2	8,8	7,3	6,1	5,2	4,5	3,9	3,4	2,7	1,4
444	37,7	19,2	13	9,4	7,8	6,5	5,6	4,8	4,2	3,7	2,9	1,4

optimum paint speed

good paint speed

bad paint speed

Paint

Decoration and protection are often two associated functions. To achieve these aims, and to re-finish products, we have at our disposal a tremendous number of surface treatments, (for example nickel or chrome plating, and so on).

Paint is also perfect for both of these functions. In addition, paint is universally used, and can be applied on any surface, such as wood, metal, stone, leather, plastic and elastomers. Paint does not come as a finished product, and hence the quality of application will depend on all its stages of preparation, which we will call the "Painting System".

In general, the stages are as follows:

- » Surface preparation
- » Application of the coating (paints, stains, varnishes, etc...)
- » Drying

DISCOVER IN THE GENERAL CATALOGUE AND FOR EACH equipment, Recommended paint families, water-based or solvent-based.



WATER-BASED MATERIALS



SOLVENT-BASED MATERIALS



1. PRIMERS



2. STAINS



3. DIRECT GLOSS/METALLIC



4. TOP COATS/HIGH GLOSS



5. UV PRODUCTS



6. MOISTURE-SENSITIVE MATERIALS



7. ANTI-CORROSION - ABRASIVES

FPro P



PROFESSIONAL FINISHING FOR ALL PAINTERS!

Perfectly balanced, the FPro spray gun provides a superior finish for all painters. **SAMES KREMLIN** offers the largest range of spray guns and accessories for all FPro applications in the high finishing markets.

- **New Standard in Airspray**
- **Performance at your fingertip**
- **Effortlessly Perfect Spraying**

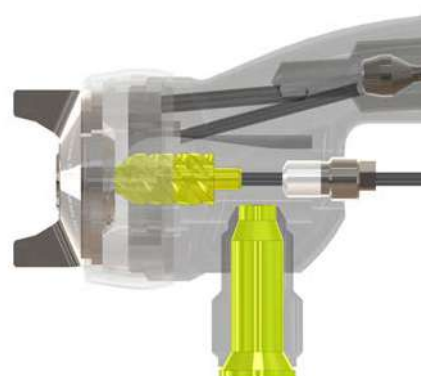


EMBEDED INNOVATIONS :

VORTEX



RESTRICTOR



SPECIFICATIONS

Sprayed materials	Varnishes, lacquers, stains, polyurethans, two-component
Body of the gun	Anodized Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	1.5-2.5 (HVLP/LVLP) - 2.5-3.5 (CONV)
Air consumption (m³/h)	16.1 - 23.5 (HVLP at 1.5-2.5 Bar) - 21.8-28.2 (CONV at 2.5-3.5 Bar)
Weight (g)	480
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	78 (HVLP) - 72 (LVLP) - 66 (CONV)
Nozzle	Stainless steel
Needle	Treated Stainless steel
Wetted parts	Stainless steel
ATEX	II2G Ex h IIB T6 Gb X

FITTINGS

Air inlet	M 1/4" NPS (+ M 1/4" BSP)
Fluid inlet	M 3/8" NPS

AVAILABLE GUN CONFIGURATIONS

Spray Technology	Gun Name	Restrictor size (mm)	Nozzle size (mm)	Fluid output (cc/min)	Air Consumption (m3/h)	Fan width at 20cm	Part number
HVLP / LVLP	Gun FPro P LP Solo	-	-	-	-	-	135.770.000
HVLP	Gun FPro P HVLP-09-XLvb	0,8	0,9	250	26	XL: > 40cm	135.777.509
	Gun FPro P HVLP-12-XLvb	1	1,2	300	28	XL: > 40cm	135.777.512
	Gun FPro P HVLP-15-XLvb	1,2	1,5	350	27	XL: > 40cm	135.777.515
	Gun FPro P HVLP-18-XLvb	1,4	1,8	400	33	XL: > 40cm	135.777.518
LVLP	Gun FPro P LVLP-09-XLvb	0,8	0,9	250	22,5	XL: > 40cm	135.770.509
	Gun FPro P LVLP-12-XLvb	1	1,2	300	24	XL: > 40cm	135.770.512
	Gun FPro P LVLP-15-XLvb	1,2	1,5	350	27	XL: > 40cm	135.770.515
	Gun FPro P LVLP-18-XLvb	1,4	1,8	400	29	XL: > 40cm	135.770.518
CONV	Gun FPro P CONV Solo	-	-	-	-	-	135.774.000
	Gun FPro P CONV-07-Lvb	-	0,7	200	28	L: 30cm - 40 cm	135.774.407
	Gun FPro P CONV-09-Lvb	0,8	0,9	250	30	L: 30cm - 40cm	135.774.409
	Gun FPro P CONV-12-Lvb	1	1,2	300	32,5	L: 30cm - 40cm	135.774.412
	Gun FPro P CONV-15-Lvb	1,2	1,5	350	34	L: 30cm - 40cm	135.774.415
	Gun FPro P CONV-18-Lvb	1,4	1,8	400	36,1	L: 30cm - 40cm	135.774.418
	Gun FPro P CONV-23-Lvb	-	2,3	400	17,5	L: 30cm - 40cm	135.774.423
	Gun FPro P CONV-27-Lvb	-	2,7	500	17,9	L: 30cm - 40cm	135.774.427

All FPro P guns (except the "Solo" versions) come with a Vortex



AVAILABLE PROJECTORS

Spray Technology	Nozzle size (mm)	Fluid output (cc/min)	Air Consumption (m3/h)	Fan width at 20 cm (cm)	Projector type	Part Number			
						Projector	Aircap PN	Nozzle PN	Needle PN
HVLP	0,7	200	23	XL: > 40cm	FPro P HVLP-07-XLvb	131.777.507	132.777.500	134.130.100	033.140.100
	0,9	250	26	XL: > 40cm	FPro P HVLP-09-XLvb	131.777.509		134.130.200	
	1,2	300	28	XL: > 40cm	FPro P HVLP-12-XLvb	131.777.512		134.130.300	
	1,5	350	27	XL: > 40cm	FPro P HVLP-15-XLvb	131.777.515		134.130.600	033.140.200
	1,8	400	33	XL: > 40cm	FPro P HVLP-18-XLvb	131.777.518		134.130.700	
LVLP	0,7	200	20,2	XL: > 40cm	FPro P LVLP-07-XLvb	131.770.507	132.770.500	134.130.100	033.140.100
	0,9	250	22,5	XL: > 40cm	FPro P LVLP-09-XLvb	131.770.509		134.130.200	
	1,2	300	24	XL: > 40cm	FPro P LVLP-12-XLvb	131.770.512		134.130.300	
	1,5	350	27	XL: > 40cm	FPro P LVLP-15-XLvb	131.770.515		134.130.600	033.140.200
	1,8	400	29	XL: > 40cm	FPro P LVLP-18-XLvb	131.770.518		134.130.700	
CONV	0,7	200	28	L: 30cm - 40cm	FPro P CONV-07-Lvb	131.774.407	132.774.400	134.130.100	033.140.100
	0,9	250	30	L: 30cm - 40cm	FPro P CONV-09-Lvb	131.774.409		134.130.200	
	1,2	300	32,5	L: 30cm - 40cm	FPro P CONV-12-Lvb	131.774.412		134.130.300	
	1,5	350	34	L: 30cm - 40cm	FPro P CONV-15-Lvb	131.774.415		134.130.600	033.140.200
	1,8	400	36,1	L: 30cm - 40cm	FPro P CONV-18-Lvb	131.774.418		134.130.700	
	2,3	400	17,5	L: 30cm - 40cm	FPro P CONV-23-Lvb	131.774.423	132.774.450	134.131.100	033.140.300
	2,7	500	17,9	L: 30cm - 40cm	FPro P CONV-27-Lvb	131.774.427		134.131.200	
	3,3	300	22	L: 30cm - 40cm	FPro P CONV-33-Lvb	131.774.433	132.774.460	134.131.300	033.140.400
	4	470	22	L: 30cm - 40cm	FPro P CONV-40-Lvb	131.774.440		134.131.400	
	2,3	400	20,6	M: 20cm - 30cm	FPro P CONV-23-Mvb	131.774.323	132.774.350	134.131.100	033.140.300
	2,7	550	20,9	M: 20cm - 30cm	FPro P CONV-27-Mvb	131.774.327		134.131.200	
	2,3	360	13,6	S: 10cm - 20cm	FPro P CONV-23-Srb	131.774.223	132.774.250	134.131.100	033.140.300
	2,7	400	13,9	S: 10cm - 20cm	FPro P CONV-27-Srb	131.774.227		134.131.200	
	3,3	700	22	S: 10cm - 20cm	FPro P CONV-33-Srb	131.774.233	132.774.260	134.131.300	033.140.400
	4	750	22	S: 10cm - 20cm	FPro P CONV-40-Srb	131.774.240		134.131.400	
	1,5	350	19,9	L: 30cm - 40cm	FPro P CONV-15-Mgb	131.774.315	132.774.370	134.131.500	033.140.200
	1,8	400	20,1	L: 30cm - 40cm	FPro P CONV-18-Mgb	131.774.318		134.131.600	

FPro P WBE



EMBEDDED INNOVATIONS : VORTEX RESTRICTOR



The FPro P WBE has been made to spray very abrasive products, keeping the high spray performances of the original FPro versions. It is particularly recommended to enamels applicators, as it gives a premium finishing to the glossy paint, and it benefits from reinforced internal components (nozzle and needle) dedicated to the abrasiveness of the enamels

- **New Standard in Airspray for water-based enamels (porcelain)**
- **Performance at your fingertips**
- **Effortlessly Perfect Spraying**



SPECIFICATIONS

Sprayed materials	Varnishes, lacquers, stains, polyurethans, two-component
Body of the gun	Anodized Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	1.5-2.5 (HVLP/LVLP) - 2.5-3.5 (CONV)
Air consumption (m³/h)	16.1 - 23.5 (HVLP at 1.5-2.5 Bar) - 21.8-28.2 (CONV at 2.5-3.5 Bar)
Weight (g)	480
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	78 (HVLP) - 72 (LVLP) - 66 (CONV)
Nozzle	Stainless steel
Needle	Treated Stainless steel
Wetted parts	Stainless steel
ATEX	II2G Ex h IIB T6 Gb X

FITTINGS

Air inlet	M 1/4" NPS (+ M 1/4" BSP)
Fluid inlet	M 3/8" NPS

MAIN SPARE PARTS

Description	Part number
Needle-end (pack of 10)	129.417.005
Restrictor 0.8 mm (0.031 inches)	129.140.023
Restrictor 0.9 mm (0.035 inches)	129.140.024
Restrictor 1.0 mm (0.039 inches)	129.140.025
Restrictor 1.2 mm (0.047 inches)	129.140.026
Restrictor 1.4 mm (0.055 inches)	129.140.027
Set of 5 Restrictors	129.140.022
Curved trigger	129.760.907
Flat trigger	129.130.907
Handle gauge (fittings 1/4 NPS male 1/4 NPS female)	150.070.560
FPro P seals set	129.130.901
FPro P maintenance set	129.770.901

AVAILABLE GUN CONFIGURATIONS

Spray Technology	Gun Name	Restrictor size (mm)	Nozzle size (mm)	Fluid output (cc/min)	Air Consumption (m³/h)	Fan width at 20cm	Part Number
CONV	Gun FPro P CONV-Solo	-	-	-	-	-	135.774.000
	Gun FPro P CONV-09-Lwb	0,8	0,9	250	30	L: 30 cm - 40 cm	135.779.909
	Gun FPro P CONV-12-Lwb	1	1,2	300	32,5	L: 30 cm - 40 cm	135.779.912
	Gun FPro P CONV-15-Lwb	1,2	1,5	350	34	L: 30 cm - 40 cm	135.779.915
	Gun FPro P CONV-18-Lwb	1,4	1,8	400	36,1	L: 30 cm - 40 cm	135.779.918
	Gun FPro P CONV-23-Lwb	1,4	2,3	400	17,5	L: 30 cm - 40 cm	135.779.923

AVAILABLE PROJECTORS

Spray Technology	Nozzle size (mm)	Fluid output (cc/min)	Air Consumption (m³/h)	Fan width at 20cm (cm)	Projector type	Part Number			
						Projector	Aircap PN	Nozzle PN	Needle PN
CONV	0,7	200	28	L: 30 cm - 40 cm	FPro P CONV-07-Lwb	131.774.907	132.774.400	134.135.100	033.148.100
	0,9	250	30	L: 30 cm - 40 cm	FPro P CONV-09-Lwb	131.774.909		134.135.200	
	1,2	300	32,5	L: 30 cm - 40 cm	FPro P CONV-12-Lwb	131.774.912		134.135.300	
	1,5	350	34	L: 30 cm - 40 cm	FPro P CONV-15-Lwb	131.774.915		134.135.600	
	1,8	400	36,1	L: 30 cm - 40 cm	FPro P CONV-18-Lwb	131.774.918		134.135.700	
	2,3	400	17,5	L: 30 cm - 40 cm	FPro P CONV-23-Lwb	131.774.923	132.774.450	134.136.100	

All Spare FPro P WBE Projectors come with no Vortex nor Restrictor

FPro LOCK P

FPro LOCK P spray gun gives you the brand new FPro finishing technology and consistent production whatever the operator's skills. SAMES KREMLIN brings you the perfect solution for high level use in demanding environments. The lock version offer no more knob adjustment for production repeatability over shifts.

- **New Standard in Airspray**
- **The lightest spray gun for high productivity**
- **Constant high performance for all production lines**



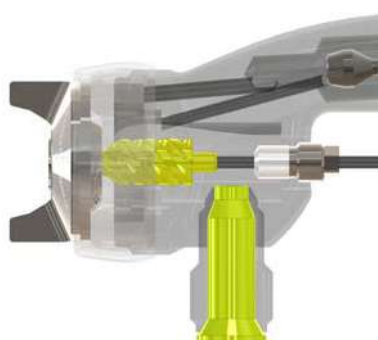
PROFESSIONAL FINISHING FOR ALL PAINTERS!

EMBEDED INNOVATIONS :

VORTEX



RESTRICTOR



WWW

SPECIFICATIONS

Sprayed materials	Varnishes, lacquers, stains, polyurethans, two-component
Body of the gun	Anodized Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	1.5-2.5 (HVLP/LVLP) - 2.5-3.5 (CONV)
Air consumption (m³/h)	16.1 - 23.5 (HVLP at 1.5-2.5 Bar) - 21.8-28.2 (CONV at 2.5-3.5 Bar)
Weight (g)	366
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	78 (HVLP) - 72 (LVLP) - 66 (CONV)
Nozzle	Stainless steel
Needle	Treated Stainless steel
Wetted parts	Stainless steel
ATEX	II2G Ex h IIB T6 Gb X

FITTINGS

Air inlet	M 1/4" NPS (+ M 1/4" BSP)
Fluid inlet	M 3/8" NPS

FPro LOCK P

AVAILABLE GUN CONFIGURATIONS

Spray Technology	Gun Name	Restrictor size (mm)	Nozzle size (mm)	Fluid output (cc/min)	Fan width at 20cm	Part number
HVLP / LVLP	FPro LOCK P LP Solo	-	-	-	-	135.760.000
HVLP	FPro LOCK P HVLP-09-Lva	0,8	0,9	250	L: 30cm - 40cm	135.767.409
	FPro LOCK P HVLP-12-Lva	1	1,2	300	L: 30cm - 40cm	135.767.412
	FPro LOCK P HVLP-09-XLva	0,8	0,9	250	XL: > 40cm	135.767.509
	FPro LOCK P HVLP-12-XLva	1	1,2	300	XL: > 40cm	135.767.512
LVLP	FPro LOCK P LVLP-09-Lva	0,8	0,9	250	L: 30cm - 40cm	135.760.409
	FPro LOCK P LVLP-12-Lva	1	1,2	300	L: 30cm - 40cm	135.760.412
	FPro LOCK P LVLP-09-XLva	0,8	0,9	250	XL: > 40cm	135.760.509
	FPro LOCK P LVLP-12-XLva	1	1,2	300	XL: > 40cm	135.760.512
CONV	FPro LOCK P CONV Solo	-	-	-	-	135.764.000
	FPro LOCK P CONV-15-Lva	0,8	1,5	350	L: 30cm - 40cm	135.764.415
	FPro LOCK P CONV-18-Lva	1	1,8	400	L: 30cm - 40cm	135.764.418
	FPro LOCK P CONV-15-XLva	0,8	1,5	350	XL: > 40cm	135.764.515
	FPro LOCK P CONV-18-XLva	1	1,8	400	XL: > 40cm	135.764.518

All FPro LOCK P guns (except the "Solo" versions) come with a Vortex



AVAILABLE PROJECTOR

Spray Technology	Nozzle size (mm)	Fluid output (cc/min)	Fan width at 20cm	Projector type	Part Number			
					Projector	Aircap PN	Nozzle PN	Needle PN
HVLP	0,7	200	L: 30cm - 40cm	FPro LOCK P HVLP-07-Lva	131.767.407	132.767.400	134.130.100	033.140.100
	0,9	250	L: 30cm - 40cm	FPro LOCK P HVLP-09-Lva	131.767.409		134.130.200	
	1,2	300	L: 30cm - 40cm	FPro LOCK P HVLP-12-Lva	131.767.412		134.130.300	
	1,5	350	L: 30cm - 40cm	FPro LOCK P HVLP-15-Lva	131.767.415		134.130.600	
	1,8	400	L: 30cm - 40cm	FPro LOCK P HVLP-18-Lva	131.767.418		134.130.700	
	0,7	200	XL: > 40cm	FPro LOCK P HVLP-07-XLva	131.767.507	132.767.500	134.130.100	033.140.100
	0,9	250	XL: > 40cm	FPro LOCK P HVLP-09-XLva	131.767.509		134.130.200	
	1,2	300	XL: > 40cm	FPro LOCK P HVLP-12-XLva	131.767.512		134.130.300	
	1,5	350	XL: > 40cm	FPro LOCK P HVLP-15-XLva	131.767.515		134.130.600	
	1,8	400	XL: > 40cm	FPro LOCK P HVLP-18-XLva	131.767.518		134.130.700	
LVLP	0,7	200	L: 30cm - 40cm	FPro LOCK P LVLP-07-Lva	131.760.407	132.760.400	134.130.100	033.140.100
	0,9	250	L: 30cm - 40cm	FPro LOCK P LVLP-09-Lva	131.760.409		134.130.200	
	1,2	300	L: 30cm - 40cm	FPro LOCK P LVLP-12-Lva	131.760.412		134.130.300	
	1,5	350	L: 30cm - 40cm	FPro LOCK P LVLP-15-Lva	131.760.415		134.130.600	
	1,8	400	L: 30cm - 40cm	FPro LOCK P LVLP-18-Lva	131.760.418		134.130.700	
	0,7	200	XL: > 40cm	FPro LOCK P LVLP-07-XLva	131.760.507	132.760.500	134.130.100	033.140.100
	0,9	250	XL: > 40cm	FPro LOCK P LVLP-09-XLva	131.760.509		134.130.200	
	1,2	300	XL: > 40cm	FPro LOCK P LVLP-12-XLva	131.760.512		134.130.300	
	1,5	350	XL: > 40cm	FPro LOCK P LVLP-15-XLva	131.760.515		134.130.600	
	1,8	400	XL: > 40cm	FPro LOCK P LVLP-18-XLva	131.760.518		134.130.700	
CONV	0,7	200	L: 30cm - 40cm	FPro LOCK P CONV-07-Lva	131.764.407	132.764.400	134.130.100	033.140.100
	0,9	250	L: 30cm - 40cm	FPro LOCK P CONV-09-Lva	131.764.409		134.130.200	
	1,2	300	L: 30cm - 40cm	FPro LOCK P CONV-12-Lva	131.764.412		134.130.300	
	1,5	350	L: 30cm - 40cm	FPro LOCK P CONV-15-Lva	131.764.415		134.130.600	
	1,8	400	L: 30cm - 40cm	FPro LOCK P CONV-18-Lva	131.764.418		134.130.700	
	0,7	200	XL: > 40cm	FPro LOCK P CONV-07-XLva	131.764.507	132.764.500	134.130.100	033.140.100
	0,9	250	XL: > 40cm	FPro LOCK P CONV-09-XLva	131.764.509		134.130.200	
	1,2	300	XL: > 40cm	FPro LOCK P CONV-12-XLva	131.764.512		134.130.300	
	1,5	350	XL: > 40cm	FPro LOCK P CONV-15-XLva	131.764.515		134.130.600	
	1,8	400	XL: > 40cm	FPro LOCK P CONV-18-XLva	131.764.518		134.130.700	

All Spare FPro LOCK P Projectors come with no Vortex nor Restrictor

FPro LOCK P

MAIN SPARE PARTS

Description	Part number
Lockable fan width set valve	129.130.040
Vortex	129.140.031
Restrictor 0.8 mm (0.031 inches)	129.140.023
Restrictor 0.9 mm (0.035 inches)	129.140.024
Restrictor 1.0 mm (0.039 inches)	129.140.025
Restrictor 1.2 mm (0.047 inches)	129.140.026
Restrictor 1.4 mm (0.055 inches)	129.140.027
Set of 5 Restrictors	129.140.022
Curved trigger	129.760.907
Flat trigger	129.130.907
Handle gauge (fittings 1/4 NPS male 1/4 NPS female)	150.070.560
FPro P seals set	129.130.901
FPro LOCK P maintenance set	129.760.901

Packs range FPro P

PACK DUO



Technology	Description	Nozzle size	Hoses		Feeding system	Hose sleeve	Part Number
			Air	Fluid			
HVLP	Pack Duo "FPro P HVLP + Hoses"	0,9	ID 8 mm Length 7.5 m	ID 6.5 mm Length 7.5 m	-	Yes	151.280.160
	Pack Duo "FPro LOCK P HVLP + Hoses"						151.280.060
LVLP	Pack Duo "FPro P LVLP + Hoses"	1,2					151.280.130
	Pack Duo "FPro LOCK P LVLP + Hoses"						151.280.030
CONV	Pack Duo "FPro P CONV + Hoses"	1,5					151.280.100
	Pack Duo "FPro LOCK P CONV + Hoses"						151.280.000

PACK GLUE



			Hoses					
Technology	Description	Projector used	Air	Fluid	Feeding system	Hose sleeve	Part Number	
CONV	Pack Glue "FPro P CONV + 4L Airspray Tank"	1.8, aircap "Mgb" for glue application	ID 8 mm Length 5.0 m	Special Polyamide Length 5.0 m	Airspray Tank Stainless Steel 4L Bottom Output no agitator	Yes	152.600.130	
		1.8, aircap "Lvb" for standard application					152.600.140	
	Pack Glue II "FPro P CONV + hoses"	1.8, aircap "Mgb" for glue application			-		151.280.300	
		1.8, aircap "Lvb" for standard application					151.280.310	

Packs range FPro P

PACK EASY 02



Technology	Description	Nozzle size	Hoses		Feeding system	Hose sleeve	Part Number
			Air	Fluid			
HVLP	Pack Easy 02 "FPro P HVLP + Airspray Tank"	0,9	ID 8 mm Length 1.6 m	ID 3.2 mm Length 1.6 m	Airspray Tank 2L Aluminum Top output no agitator	-	152.600.216
	Pack Easy 02 "FPro LOCK P HVLP + Airspray Tank"						152.600.213
LVLP	Pack Easy 02 "FPro P LVLP + Airspray Tank"						152.600.217
	Pack Easy 02 "FPro LOCK P LVLP + Airspray Tank"						152.600.214
CONV	Pack Easy 02 "FPro P CONV + Airspray Tank"						152.600.218
	Pack Easy 02 "FPro LOCK P CONV + Airspray Tank"						152.600.215

PACK EASY 10



			Hoses								
Technology	Description	Nozzle size	Air	Fluid	Feeding system	Hose sleeve	Part Number				
HVLP	Pack Easy 10 "FPro P HVLP + Airspray Tank"	1,2	ID 8 mm Length 7.5 m	ID 6.5 mm Length 7.5 m	Airspray Tank Stainless Steel 10L Top Output no agitator	Yes	152.600.207				
	Pack Easy 10 "FPro LOCKP HVLP + Airspray Tank"						152.600.201				
LVLP	Pack Easy 10 "FPro P LVLP + Airspray Tank"						152.600.209				
	Pack Easy 10 "FPro LOCKP LVLP + Airspray Tank"						152.600.203				
CONV	Pack Easy 10 "FPro P CONV + Airspray Tank"	1,5									152.600.211
	Pack Easy 10 "FPro LOCK P CONV + Airspray Tank"										152.600.205

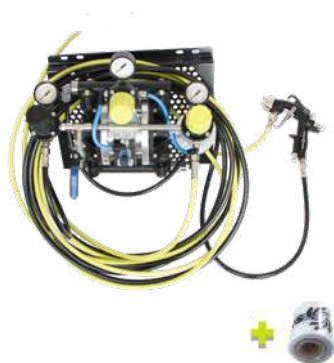
PACK EASY 20



			Hoses								
Technology	Description	Nozzle size	Air	Fluid	Feeding system	Hose sleeve	Part Number				
HVLP	Pack Easy 20 "FPro P HVLP + Airspray Tank"	1,2	ID 8 mm Length 7.5 m	ID 6.5 mm Length 7.5 m	Airspray Tank Stainless Steel 20L Top Output no agitator	Yes	152.600.208				
	Pack Easy 20 "FPro LOCK P HVLP + Airspray Tank"						152.600.202				
LVLP	Pack Easy 20 "FPro P LVLP + Airspray Tank"						152.600.210				
	Pack Easy 20 "FPro LOCK P LVLP + Airspray Tank"						152.600.204				
CONV	Pack Easy 20 "FPro P CONV + Airspray Tank"	1,5									152.600.212
	Pack Easy 20 "FPro LOCK P CONV + Airspray Tank"						152.600.206				

Packs range FPro P

PACK PRODUCTIVITY



Technology	Description	Nozzle size	Hoses		Feeding system	Hose sleeve	Part Number
			Air	Fluid			
HVLP	Pack Productivity "FPro P HVLP + Wall PMP150"	0,9	ID 8 mm Length 7.5 m	ID 6.5 mm Length 7.5 m	Wall mounted PMP 150 + 3 regulators* + suction rod	Yes	151.280.170
	Pack Productivity "FPro LOCK P HVLP + Wall PMP150"						151.280.070
LVLP	Pack Productivity "FPro P LVLP + Wall PMP150"	1,2					151.280.140
	Pack Productivity "FPro LOCK P LVLP + Wall PMP150"						151.280.040
CONV	Pack Productivity "FPro P CONV + Wall PMP150"	1,5					151.280.110
	Pack Productivity "FPro LOCK P CONV + Wall PMP150"						151.280.010

* 3 regulators : Air pump motor + Atomizing air + fluid pressure

* the black metallic frame is not included

PACK IMPACT



Technology	Description	Nozzle size	Hoses		Feeding system	Hose sleeve	Part Number
			Air	Fluid			
HVLP	Pack Impact "FPro P HVLP + Tripod PMP150"	0,9	ID 8 mm Length 1.6 m	ID 3.2 mm Length 1.6 m	PMP 150 on Tripod + 2 regulators* + suction rod	Yes	151.280.200
	Pack Impact "FPro LOCK P HVLP + Tripod PMP150"						151.280.215
LVLP	Pack Impact "FPro P LVLP + Tripod PMP150"	1,2					151.280.205
	Pack Impact "FPro LOCK P LVLP + Tripod PMP150"						151.280.220
CONV	Pack Impact "FPro P CONV + Tripod PMP150"	1,5					151.280.210
	Pack Impact "FPro LOCK P CONV + Tripod PMP150"						151.280.225

* 2 regulators : Air pump motor + Atomizing air

PACK CONVENIENCE



Technology	Description	Nozzle size	Hoses		Feeding system	Hose sleeve	Part Number
			Air	Fluid			
HVLP	Pack Convenience "FPro P HVLP + Tripod PMP150"	0,9	ID 8 mm Length 7.5 m	ID 6.5 mm Length 7.5 m	PMP 150 on Tripod + 3 regulators* + suction rod	Yes	151.280.180
	Pack Convenience "FPro LOCK P HVLP + Tripod PMP150"						151.280.080
LVLP	Pack Convenience "FPro P LVLP + Tripod PMP150"	1,2					151.280.150
	Pack Convenience "FPro LOCK P LVLP + Tripod PMP150"						151.280.050
CONV	Pack Convenience "FPro P CONV + Tripod PMP150"	1,5					151.280.120
	Pack Convenience "FPro LOCK P CONV + Tripod PMP150"						151.280.020

* 3 regulators : Air pump motor + Atomizing air + fluid pressure

PACK ABRASIVE

Technology	Description	Nozzle size	Hoses		Feeding system	Hose sleeve	Part Number
			Air	Fluid			
CONV	Pack Abrasive "FPRO P CONV -15-Lwb + PMP150 E"	1,5	ID 8 mm Length 7.5 m	ID 6.5 mm Length 7.5 m	Wall mounted PMP 150E	Yes	151.280.125

Notes

Spray guns

Pumps

Machines & Controllers

Accessories

General informations

FPro S



PROFESSIONAL FINISHING FOR ALL PAINTERS!

FOCUS VORTEX



The **SAMES KREMLIN** paint Vortex produces a swirling effect to the paint which allows the paint to leave the nozzle under an helical pattern shape which improves the homogeneity of the film build.

The FPro S guns are a combination of the successful features of the FPro P, such as the lightweight gun body, ergonomics valves and Vortex, and some brand new features. This suction feed gun is designed for hard to atomize coatings up to 45-55 seconds CA4.

- Breakthrough in Airspray technology
- Enhanced suction power
- Brand new suction cup options



SPECIFICATIONS

Sprayed materials	Virtually all coatings
Body of the gun	Anodised Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	2.5-3.5
Air consumption (m³/h)	26-27
Weight (with cup) (g)	832
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	66
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel/aluminum
Vortex	Pom C
ATEX	II2G Ex h IIB T6 X Gb

FITTINGS

Air inlet	M 1/4" NPS
Fluid inlet	M 3/8" NPS

MAIN SPARE PARTS

Description	Part number
Complete Aluminum suction cup	138.400.000
Pack of filters (200µm) (x4)	138.310.300
Adaptor for 3M disposable suction cups	921.260.401
Kit Suction booster valve	129.780.025
Seal kit	129.130.901
Repair set for FPro S	129.780.901
Pack of cover and cup seals for suction cup (x10)	138.310.320

FPro S

AVAILABLE GUN CONFIGURATIONS

Spray technology	Gun Name	Nozzle size (mm)	Fluid Output (cc/min)	Air consumption (m3/h)	Fan width at 20 cm	Part number
CONV	Gun FPro S CONV Solo	-	-	-	-	135.780.000
	Gun FPro S CONV-12-Mvb + alu cup	1.2	120	26	M : 20-30 cm	135.780.312
	Gun FPro S CONV-15-Mvb + alu cup	1.5	210	26	M : 20-30 cm	135.780.315
	Gun FPro S CONV-18-Mvb + alu cup	1.8	280	26	M : 20-30 cm	135.780.318
	Gun FPro S CONV-23-Lvb + alu cup	2.3	340	27	L : 30-40 cm	135.780.423
	Gun FPro S CONV-27-Lvb + alu cup	2.7	400	27	L : 30-40 cm	135.780.427



AVAILABLE PROJECTOR

						Part Number			
Spray technology	Nozzle size (mm)	Fluid Output (cc/min)	Air consumption (m3/h)	Fan width at 20 cm (cm)	Projector type	Projector	Aircap	Nozzle	Needle
Projector Name	1.2	120	26	M : 20-30 cm	FPro S CONV-12-Mvb	131.780.312	132.780.300	134.130.300	033.140.100
	1.5	210	26	M : 20-30 cm	FPro S CONV-15-Mvb	131.780.315	132.780.300	134.130.600	033.140.200
	1.8	280	26	M : 20-30 cm	FPro S CONV-18-Mvb	131.780.318	132.780.300	134.130.700	033.140.200
	2.3	340	27	L : 30-40 cm	FPro S CONV-23-Lvb	131.780.423	132.780.400	134.131.100	033.140.300
	2.7	400	27	L : 30-40 cm	FPro S CONV-27-Lvb	131.780.427	132.780.400	134.131.200	033.140.300

FPro G



Perfectly balanced, the FPro G, gravity paint spray gun, provides a superior finish for all professional painters in the industrial markets.

- **New standard in Airspray for premium application needs**
- **Ergonomic design for improved working conditions**
- **Perfect for frequent color changes**



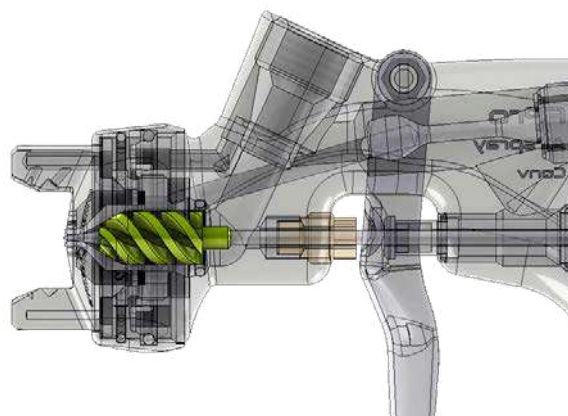
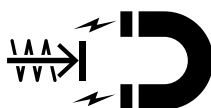
PROFESSIONAL FINISHING FOR ALL PAINTERS!

EMBEDED INNOVATIONS :

VORTEX



MAG-TRIGGER



SPECIFICATIONS

Sprayed materials	Varnishes, lacquers, stains, polyurethanes, two-components
Body of the gun	Anodized Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	1.5-2.5 (HVLP) – 2.5-3.5 (CONV)
Air consumption (m³/h)	23.8 (CONV at 3 Bar) – 14.9 (LVLP at 2.5 Bar) – 21.3 (HVLP at 2.5 Bar)
Weight (with cup) (g)	620
Maximum Fluid Temperature (°C)	50
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel
Vortex	Pom C
ATEX	II2G Ex h IIB T6 Gb X

MAIN SPARE PARTS

Description	Part number
Vortex	129.140.031
Gravity cup FPro G 0.6 l	139.790.100
Pack of 5 anti drip diaphragms	139.790.105
Trigger FPro G	129.790.907
Seal kit	129.790.901
Repair set for FPro G	129.790.905

FITTINGS

Air inlet	M 1/4" NPS
Fluid inlet	-

AVAILABLE GUN CONFIGURATIONS

Spray technology	Gun Name	Nozzle size (mm)	Fluid Output (cc/min)	Air consumption (m3/h)	Fan width at 20 cm	Part number with cup	Part number without cup
HVLP/LVLP	Gun FPro G LP Solo with cup	-	-	-	-	136.790.000	-
HVLP	Gun FPro G HVLP-12-Lvb	1.2	105		L : 30 cm – 40 cm	136.797.412	135.797.412
	Gun FPro G HVLP-13-Lvb	1.3	126		L : 30 cm – 40 cm	136.797.413	135.797.413
	Gun FPro G HVLP-14-Lvb	1.4	150		L : 30 cm – 40 cm	136.797.414	135.797.414
	Gun FPro G HVLP-15-Lvb	1.5	170		L : 30 cm – 40 cm	136.797.415	135.797.415
	Gun FPro G HVLP-18-Lvb	1.8	197		L : 30 cm – 40 cm	136.797.418	135.797.418
	Gun FPro G HVLP-22-Lvb	2.2	280		L : 30 cm – 40 cm	136.797.422	135.797.422
LVLP	Gun FPro G LVLP-12-Mvb	1.2	105		M: 20cm – 30 cm	136.790.312	135.790.312
	Gun FPro G LVLP-13-Mvb	1.3	126		M: 20cm – 30 cm	136.790.313	135.790.313
	Gun FPro G LVLP-14-Mvb	1.4	150		M: 20cm – 30 cm	136.790.314	135.790.314
	Gun FPro G LVLP-15-Mvb	1.5	170		M: 20cm – 30 cm	136.790.315	135.790.315
	Gun FPro G LVLP-18-Mvb	1.8	197		M: 20cm – 30 cm	136.790.318	135.790.318
	Gun FPro G LVLP-22-Mvb	2.2	280		M: 20cm – 30 cm	136.790.322	135.790.322
CONV	Gun FPro G Conv Solo with cup	-	-	-	-	136.794.000	-
	Gun FPro G CONV-12-Mvb	1.2	105		M: 20cm – 30 cm	136.794.312	135.794.312
	Gun FPro G CONV-13-Mvb	1.3	126		M: 20cm – 30 cm	136.794.313	135.794.313
	Gun FPro G CONV-14-Mvb	1.4	150		M: 20cm – 30 cm	136.794.314	135.794.314
	Gun FPro G CONV-15-Mvb	1.5	170		M: 20cm – 30 cm	136.794.315	135.794.315
	Gun FPro G CONV-18-Mvb	1.8	197		M: 20cm – 30 cm	136.794.318	135.794.318
	Gun FPro G CONV-22-Mvb	2.2	280		M: 20cm – 30 cm	136.794.322	135.794.322

All FPro G guns (except the « Solo » version) come with the Vortex.

AVAILABLE AIRCAPS

Spray technology	Aircaps	Fan width at 20 cm	Part Number
HVLP	Aircap FPro G HVLP-1222-Lvb	L : 30-40 cm	132.790.100
LVLP	Aircap FPro G LVLP-1222-Mvb	M : 20-30 cm	132.790.200
CONV	Aircap FPro G CONV-1222-Mvb	M : 20-30 cm	132.794.100

AVAILABLE TIP+ NEEDLE KITS

Designation	Nozzle size (mm)	Fluid Output (cc/min)	Part number	
			Kit Tip + Needle	Needle with magnetic support
TIP + NEEDLE 12 - FPro G	1.2	105	131.799.912	133.790.100
TIP + NEEDLE 13 - FPro G	1.3	126	131.799.913	133.790.100
TIP + NEEDLE 14 - FPro G	1.4	150	131.799.914	133.790.200
TIP + NEEDLE 15 - FPro G	1.5	170	131.799.915	133.790.200
TIP + NEEDLE 18 - FPro G	1.8	197	131.799.918	133.790.200
TIP + NEEDLE 22 - FPro G	2.2	280	131.799.922	133.790.300

MAIN SPARE PARTS

Designation	Part number
NEEDLE TIP 22-27 & NEEDLE MAGNETIC SUPPORT 07-40 FPRO	133.790.300
NEEDLE TIP 07-13 & NEEDLE MAGNETIC SUPPORT 07-40 FPRO	133.790.400
NEEDLE TIP 14-18 & NEEDLE MAGNETIC SUPPORT 07-40 FPRO	133.790.500

FPro GSP

The FPro GSP, combining gravity and pressure technologies, is the best choice to ally high finishing quality and comfort of use even for thick materials. This gun is available assemble or in kit form for all the frequencies of use.

- High spraying quality even with viscous materials
- Modular gun for large range of applications
- Ergonomic and robust design



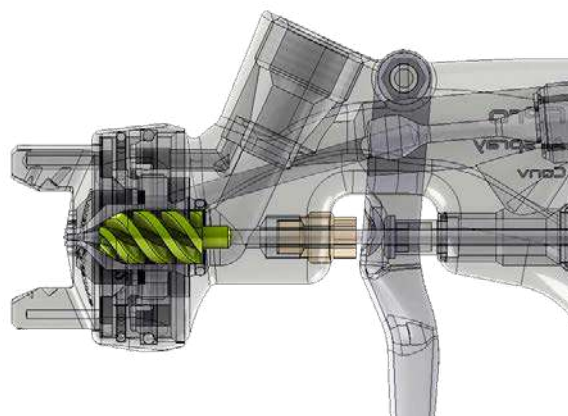
PROFESSIONAL FINISHING FOR ALL PAINTERS!

EMBEDED INNOVATIONS :

VORTEX



MAG-TRIGGER



SPECIFICATIONS

Sprayed material	Varnishes, lacquers, stains, polyurethanes, two-components, UV paints
Body of the gun	Anodized forged aluminium
Maximum air inlet pressure (bar)	6
Maximum product inlet pressure (bar)	1
Recommended atomization air pressure at the handle (bar)	4,5
Air consumption (m3/h)	23,8 at 3 bar
Weight (with cup) (g)	718,8
Maximum fluid temperature (°C)	50
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel
Vortex	POM C
Atex	II2G Ex h IIB T6 Gb X

FPro GSP

MAIN SPARE PARTS

Description	Part number
Complete GSP Kit	129.798.020
GSP KIT Without cup	129.798.100
Godet GSP solo	139.790.200
Vortex	129.140.031
TRIGGER FPRO G	129.790.907
Seal kit FPro GSP	129.798.901
PACK OF 5 ANTI DRIP DIAPHRAGMS	139.790.105

FITTINGS

Air inlet	M 1/4" NPS
Fluid inlet	-



AVAILABLE GUN CONFIGURATIONS

Spray technology	Gun Name	Nozzle size (mm)	Fluid Output (cc/min)	Fan width at 20 cm	Part number
Conv	Gun FPRO GSP CONV-15-Mvb	1,5	170	M: 20cm-30cm	136.798.315
	Gun FPRO GSP CONV-18-Mvb	1,8	197	M: 20cm-30cm	136.798.318
	Gun FPRO GSP CONV-22-Mvb	2,2	280	M: 20cm-30cm	136.798.322

AVAILABLE AIRCAP

Spray technology	Aircaps	Fan width at 20 cm	Part Number
CONV	Aircap FPRO G CONV-1222-Mvb	M: 20cm-30cm	132.794.100

AVAILABLE TIP+ NEEDLE

Designation	Nozzle size (mm)	Fluid Output (cc/min)	Part number	
			Tip + Needle	Needle with magnetic support
Tip + Needle 15 - FPro G	1,5	170	131.799.915	133.790.200
Tip + Needle 18 - FPro G	1,8	197	131.799.918	133.790.200
Tip + Needle 22 - FPro G	2,2	280	131.799.922	133.790.300

Smart Cups



DISPOSABLE SOLUTIONS FOR EFFICIENT USE

Looking for faster, cleaner and more efficient solutions for all your applications, the smart cups range is the solution to all your needs. SAMES KREMLIN offers you disposable cups to make your life easier for mixing, spraying and cleaning.

- Perfect for frequent color changes
- Improved spraying experience
- Easier daily life



Compatible with FPro G, M22G, FStart, S3



1. Curved cup : 250ml & 750ml
2. Choice of filter : 125µm & 190µm
3. Membrane to avoid leak
4. Adaptor to all guns

FPro GSP



Cup dispenser



Lid and ring dispenser



Hard cup

Disposable cup



Lid



Cap



Ring

AVAILABLE BOXES

Designation	Capacity (L)	Filter size (µm)	Part Number
Pack of 48 Smart Cups Mini - 250mL - filter 125µm	0,25	125	138.790.111
Pack of 48 Smart Cups - 750mL - filter 125µm	0,75	125	138.790.112
Pack of 48 Smart Cups - 750mL - filter 190µm	0,75	190	138.790.113

AVAILABLE STARTER KITS

Designation	Capacity (L)	Filter size (µm)	Part Number
Starter Kit Smart Cups - 12 units - 750 mL - filter 125 µm	0,75	125	138.790.114
Starter Kit Smart Cups - 12 units - 750 mL - filter 190 µm	0,75	190	138.790.115

ACCESSORIES

Designation	Part Number
Adaptor Smart Cups - FPro G, M22 G, S3 G	138.790.001
Adaptor Smart Cups - DEVILBISS FLG, GTI, PRI, TEKNA	138.790.002
Adaptor Smart Cups - Fstart G, Iwata W400, LPH 400	138.790.003
Adaptor Smart Cups - IWATA SUPERNOVA WS400, LS399	138.790.004
Adaptor Smart Cups - SATA SATAJET 3000, SATAJET 3999	138.790.005
Adaptor Smart Cups - AIRGUNSA (AZ3, AZ5, AZ30 HTE)	138.790.006
Pack of 2 hard Smart Cups mini for dosing - 250ml	138.790.121
Pack of 2 hard Smart Cups for dosing - 750ml	138.790.122
Pack of 50 mixing sticks	138.790.150
Dispenser Smart Cups mini - 250 ml	138.790.057
Dispenser Smart Cups - 750 ml	138.790.058
Dispenser lids and rings Smart Cups	138.790.059



FStart P



The Fstart P is the right solution to spray low to medium viscosity material at a reduced price, still ensuring a good spray quality.

- **Good value for money**
- **Comfortable spray gun**
- **Easy to repair**



SPECIFICATIONS

Sprayed materials	Primer, stain, clearcoat, base coat, topcoat, polyester
Body of the gun	Aluminum casted body
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	1.5-2.5 (HVLP) – 2.5-3.5 (CONV)
Air consumption (m ³ /h)	19.4m ³ /h (HVLP at 2.2 bar) - 22.1m ³ /h (CONV at 3 bar)
Weight ((g)	410
Maximum Fluid Temperature (°C)	50
Nozzle	Stainless steel / aluminum
Needle	Stainless steel
Wetted parts	Stainless steel/aluminum
ATEX	II2G Ex h IIB T6 X Gb

FITTINGS

Air inlet	M 1/4" NPS
Fluid inlet	M 3/8" NPS

MAIN SPARE PARTS

Description	Part number
Maintenance kit for FStart P/S	129.756.902

AVAILABLE GUN CONFIGURATIONS

Spray technology	Gun Name	Nozzle size (mm)	Air consumption (m ³ /h)	Fan width at 20 cm	Part number
HVLP	Gun FStart P HVLP-12-XLva	1.2	18,6	XL : > 40 cm	135.756.312
	Gun FStart P HVLP-15-XLva	1.5	20,1	XL : > 40 cm	135.756.315
	Gun FStart P HVLP-18-XLva	1.8	18,8	XL : > 40 cm	135.756.318
CONV	Gun FStart P CONV-12-XLva	1.2	18,8	XL : > 40 cm	135.756.412
	Gun FStart P CONV-15-XLva	1.5	19,6	XL : > 40 cm	135.756.415
	Gun FStart P CONV-18-XLva	1.8	19,3	XL : > 40 cm	135.756.418

FStart P

AVAILABLE AIRCAPS

Spray technology	Aircaps	Nozzle size compatibility (mm)	Fan width at 20 cm	Part Number
HVLP	Aircap FStart P HVLP-1218-XLva	1.2 – 1.5 - 1.8	XL : > 40 cm	132.756.310
CONV	Aircap FStart P CONV-12-XLva	1.2	XL : > 40 cm	132.756.410
	Aircap FStart P CONV-1518-XLva	1.5 – 1.8	XL : > 40 cm	132.756.420

AVAILABLE NOZZLE + NEEDLE KITS

Spray technology	Nozzle + Needle Kits	Nozzle size (mm)	Fluid Output (cc/min)	Part Number
HVLP	Nozzle + Needle FStart HVLP-12	1.2	400	131.756.112
	Nozzle + Needle FStart HVLP-15	1.5	580	131.756.115
	Nozzle + Needle FStart HVLP-18	1.8	700	131.756.118
CONV	Nozzle + Needle FStart CONV-12	1.2	400	131.756.212
	Nozzle + Needle FStart CONV-15	1.5	590	131.756.215
	Nozzle + Needle FStart CONV-18	1.8	700	131.756.218

PACK LUCKY FSTART

Designation	Nozzle size of the gun	Hoses dimensions	Reference
Pack Airspray Lucky 2 "FStart P HVLP + Tank 2L"	1.2	1.6m Air - ID 8 mm 1.6m Fluid - ID 3.2 mm	152.756.420
Pack Airspray Lucky 2 "FStart P CONV + Tank 2L"	1.5	1.6m Air - ID 6.5 mm 1.6m Fluid - ID 3.2 mm	152.756.550
Pack Airspray Lucky 10 "FStart P HVLP + Tank 10L CST"	1.2	7.5m Air - ID 8 mm 7.5m Fluid - ID 6.5 mm	152.756.425
Pack Airspray Lucky 10 "FStart P CONV + Tank 10L CST"	1.5	7.5m Air - ID 6.5 mm 7.5m Fluid - ID 6.5 mm	152.756.555

Lucky 2



Lucky 10



FStart S



The FStart S is the right suction-fed conventional solution for hard to atomize coatings at a reduced price.

- Accessible for beginners and professional painters
- Comfort for all hands
- Easy cleaning



SPECIFICATIONS

Sprayed materials	Primer, stain, clearcoat, base coat, topcoat, polyester
Body of the gun	Aluminum casted body
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	2.5-3.5 (CONV)
Air consumption (m3/h)	21,3m3/h at 3 bar
Weight (g)	402 without cup - 739 with cup
Maximum Fluid Temperature (°C)	50
Cup capacity	1 l
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel / aluminum
ATEX	II2G Ex h IIB T6 X Gb

FITTINGS

Air inlet	M 1/4" NPS
Fluid inlet	M 3/8" NPS

MAIN SPARE PARTS

Description	Part number
Aluminum suction cup	138.400.000
Maintenance kit for FStart P/S	129.756.902

AVAILABLE GUN CONFIGURATIONS

Spray technology	Gun Name	Nozzle size (mm)	Air consumption (m3/h)	Fan width at 20 cm	Part number
CONV	Gun FStart S CONV-15-Mva	1.5	23	M : 20 cm – 30 cm	135.756.515
	Gun FStart S CONV-18-Mva	1.8	22.7	M : 20 cm – 30 cm	135.756.518

AVAILABLE AIRCAPS

Spray technology	Aircaps	Nozzle size compatibility (mm)	Fan width at 20 cm	Part Number
CONV	Aircap FStart S CONV-1518-Mva	1.5 – 1.8	M : 20 cm – 30 cm	132.756.510

FStart S

AVAILABLE NOZZLE + NEEDLE KITS

Spray technology	Nozzle + Needle Kits	Nozzle size (mm)	Fluid Output (cc/min)	Part Number
CONV	Nozzle + Needle FStart CONV-15	1.5	220	131.756.215
	Nozzle + Needle FStart CONV-18	1.8	200	131.756.218

FStart G

Multi-purpose economy gun, the FStart G is easy to use and guarantees a high spraying quality.

- Accessible for beginners and professional painters
- Comfort for all hands
- Easy cleaning



SPECIFICATIONS

Sprayed materials	Primer, stain, clearcoat, base coat, topcoat, polyester
Body of the gun	Aluminum casted body
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	1.5-2.5 (HVLP) – 2.5-3.5 (CONV)
Air consumption (m3/h)	20,4 m3/h (HVLP at 2.2 bar) – 23,3m3/h (CONV at 3 bar)
Weight (g)	410 g without cup - 548 with cup
Maximum Fluid Temperature (°C)	50
Cup capacity	0.6 L
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel / aluminum
ATEX	II2G Ex h IIB T6 X Gb

FITTINGS

Air inlet	M 1/4" NPS
Fluid inlet	-

MAIN SPARE PARTS

Description	Part number
Gravity Plastic cup for FStart	129.756.928
Maintenance kit for FStart G	129.756.901

AVAILABLE GUN CONFIGURATIONS

Spray technology	Gun Name	Nozzle size (mm)	Air consumption (m3/h)	Fan width at 20 cm	Part number
HVLP	Gun FStart G HVLP-15-Mva	1.5	18,8	M : 20-30 cm	135.756.115
	Gun FStart G HVLP-18-Mva	1.8	18,9	M : 20-30 cm	135.756.118
	Gun FStart G HVLP-22-Mva	2.2	18,8	M : 20-30 cm	135.756.122
CONV	Gun FStart G CONV-15-Lva	1.5	23	L : 30-40 cm	135.756.215
	Gun FStart G CONV-18-Lva	1.8	22,7	L : 30-40 cm	135.756.218
	Gun FStart G CONV-22-Lva	2.2		L : 30-40 cm	135.756.222

FStart G

AVAILABLE AIRCAPS

Spray technology	Aircaps	Nozzle size compatibility (mm)	Fan width at 20 cm	Part Number
HVLP	Aircap FStart G HVLP-1522-Mva	1.5 – 1.8 – 2.2	M : 20-30 cm	132.756.110
CONV	Aircap FStart G CONV-1518-Lva	1.5 – 1.8	L : 30-40 cm	132.756.210
	Aircap FStart G CONV-22-Lva	2.2	L : 30-40 cm	132.756.220

AVAILABLE NOZZLE + NEEDLE KITS

Spray technology	Nozzle + Needle Kits	Nozzle size (mm)	Fluid Output (cc/min)	Part Number
HVLP	Nozzle + Needle FStart HVLP-15	1.5	132	131.756.115
	Nozzle + Needle FStart HVLP-18	1.8	140	131.756.118
	Nozzle + Needle FStart HVLP-22	2.2	160	131.756.122
CONV	Nozzle + Needle FStart CONV-15	1.5	220	131.756.215
	Nozzle + Needle FStart CONV-18	1.8	200	131.756.218
	Nozzle + Needle FStart CONV-22	2.2		131.756.222

PACK LUCKY FSTART

Designation	Nozzle size of the gun	Hoses dimensions	Part Number
Pack Airspray Lucky "FStart G HVLP + air hose"	1.8	7.5m Air - ID8mm	152.756.280
Pack Airspray Lucky "FStart G CONV + air hose"	1.8	7.5m Air – ID6.5mm	152.756.380

FStart G

AIRCAPS FOR FPRO & FSTART GUNS

AIRCAPS FOR FPRO P, FPRO S AND FPRO G GUNS

Guns	Technology	Equivalent M22 range	Fan size	Fan shape or usage	Nozzle size	Part number
FPRO P	HVLP	E3 K HVLP	XL : > 40 cm	Flat	07/22	132.777.500
	LVLP	EP3	XL : > 40 cm		07/22	132.770.500
	CONV	EN3	L : 30 cm - 40 cm		07/22	132.774.400
		ER3	L : 30 cm - 40 cm		23/27	132.774.450
		ES3	L : 30 cm - 40 cm		33/40	132.774.460
		ER4	M : 20 cm - 30 cm		23/27	132.774.350
		ER9	S : 10 cm - 20 cm	Round	23/27	132.774.250
		ES9	S : 10 cm - 20 cm		33/40	132.774.260
		EG1	L : 30 cm - 40 cm	Glue	15/18	132.774.370
FPRO S	CONV	EN2	M : 20 cm - 30 cm	Flat	07/22	132.780.300
		ER1	L : 30 cm - 40 cm		23/27	132.780.400
FPRO G	HVLP	E5 K HVLP	L : 30 cm - 40 cm	Flat	12/22	132.797.100
	LVLP	EP 5	M : 20 cm - 30 cm		12/22	132.790.100
	CONV	EN5	M : 20 cm - 30 cm		12/22	132.794.100

AIRCAPS FOR FSTART GUNS

Guns	Technology	Fan size	Fan shape or usage	Atomization quality	Nozzle size	Part number
FStart G	HVLP	M : 20cm - 30 cm	Flat	Good	15/22	132.756.110
	CONV	L : 30cm - 40 cm			15/18	132.756.210
		L : 30cm - 40 cm			22	132.756.220
FStart P	HVLP	XL : > 40 cm			12/18	132.756.310
	CONV	XL : > 40 cm			12	132.756.410
		XL : > 40 cm			15/18	132.756.420
FStart S	CONV	M : 20cm - 30 cm			15/18	132.756.510

S3 G



The S3 G is our most compact and light gun, designed for tight area applications and where touch-ups are required. It is also an ideal solution for small hands.

- **Small to medium viscosity material**
- **Specific aircap for line fan: very precise touch-up work**
- **Improved ergonomics: light & compact body and small cup (0.25L)**



SPECIFICATIONS

Sprayed materials	Shades, varnishes, lacquers, stains, polyurethans, 2 component
Body of the gun	Polished Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	1.5-2.5 (HTI) – 2.5 – 3.5 (HPA)
Air consumption (m³/h)	7.5 (HTI) – 8-10 (HPA)
Weight (with cup) (g)	515
Maximum Fluid Temperature (°C)	50
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

FITTINGS

Air inlet	M 1/4" NPS
Fluid inlet	-

SEAL KITS

Description	Part number
Seal kit	129.150.901
Repair kit (includes the seal kit)	129.150.902

AVAILABLE GUN CONFIGURATIONS

Spray technology	Gun Name	Nozzle size (mm)	Max fluid viscosity in CA4	Fluid Output (cc/min)	Air consumption (m³/h)	Fan width at 20 cm (cm)	Cup	Part Number
-	S3 G Without Projector with cup	-	-	-	-	-		136.155.100
HVLP (HTI)	S3 G - 08 ESG KHVLP with cup	0.8	14 – 20 s	68	7.5	14	PeHD 0.25L (grey)	136.155.112
	S3 G - 10 ESG KHVLP with cup	1.0	14 – 20 s	100	7.5	21		136.155.113
	S3 G - 12 ESG KHVLP with cup	1.2	20 – 30 s	130	7.5	24		136.155.114
	S3 G - 10 PGL with cup	1.0	20 - 30 s	148	4	13		136.155.107
CONV (HPA)	S3 G - 08AM with cup	0.8	14 – 20 s	86	12.9	15	PeHD 0.25L (grey)	136.155.108
	S3 G - 10AM with cup	1.0	20 – 30 s	142	12.9	22		136.155.109
	S3 G- 12AM with cup	1.2	30 – 40 s	180	12.9	24.5		136.155.110
	S3 G - 08AM with cup	0.8	14 – 20 s	86	12.9	15	Polyacetal 0.25L (white)	136.156.108



AVAILABLE PROJECTORS

							Part Number			
Spray technology	Nozzle size (mm)	Max fluid viscosity in CA4	Fluid Output (cc/min)	Air consumption (m³/h)	Fan width at 20 cm (cm)	Projector Type	Projector	Aircap	Nozzle	Needle
HVLP (HTI)	0.8	14 – 20 s	68	7.5	14	08 ESG KHVLP	031.150.012	132.150.200	134.630.400	033.150.100
	1.0	14 – 20 s	100	7.5	21	10 ESG KHVLP	031.150.013	132.150.200	134.630.100	033.150.500
	1.2	20 – 30 s	130	7.5	24	12 ESG KHVLP	031.150.014	132.150.200	134.630.200	033.150.200
CONV (HPA)	1.0	20 - 30 s	148	4	13	10 PGL	031.150.007	132.640.100	134.630.100	033.150.300
	0.8	14 – 20 s	86	12.9	15	08 AM	031.150.008	132.630.400	134.630.400	033.150.100
	1.0	20 – 30 s	142	12.9	22	10 AM	031.150.009	132.630.400	134.630.100	033.150.500
	1.2	30 – 40 s	180	12.9	24.5	12 AM	031.150.010	132.630.400	134.630.200	033.150.200

S3 A



The S3 A is our most compact suction fed gun with outstanding ergonomics for small hands and tight areas where touch up or shading is required.

- Outstanding atomization quality
- Improved ergonomics, light & compact
- Special cup design: the gun holds by itself anywhere between two spray operations



SPECIFICATIONS

Sprayed materials	Shades, varnishes, lacquers, stains, polyurethans, 2 component
Body of the gun	Polished Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	2.5 - 3.5
Air consumption (m3/h)	8-11
Weight (with cup) (g)	595
Cup capacity (l)	0,25
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

FITTINGS

Air inlet	M 1/4" NPS
Fluid inlet	M 1/4" NPS

SEAL KITS

Description	Part number
Seal kit	129.150.901
Repair kit (includes the seal kit)	129.150.902

AVAILABLE GUN CONFIGURATIONS

Spray technology	Gun Name	Nozzles Size (mm)	Max Fluid viscosity in CA 4	Fluid output (cc/ mn)	Air consumption (m³/h)	Fan width at 20 cm (cm)	Cup	Part number
CONV (HPA)	S3 A without projector with cup	-	-	-	-	-	PeHD 0.25l (grey)	136.150.200
	S3 A 08 AM with cup	0.8	14-20 s	86	12.9	15		136.150.208
	S3 A 10 AM with cup	1.0	20-30 s	132	12.9	17		136.150.209
	S3 A 12 AM with cup	1.2	30-40 s	159	12.9	19		136.150.210
	S3 A 15 AY with cup	1.5		180	14.1	20		136.150.211



AVAILABLE PROJECTORS

Part Number										
Spray technology	Nozzles Size (mm)	Max Fluid viscosity in CA 4	Fluid output (cc/mn)	Air consumption (m³/h)	Fan width at 20 cm (cm)	Projector type	Projector	Aircap	Nozzle	Needle
CONV (HPA)	0.8	<20 s	86	12.9	15	08 AM	031.150.008	132.630.400	134.630.400	033.150.100
	1.0		132	12.9	17	10 AM	031.150.009	132.630.400	134.630.100	033.150.500
	1.2		159	12.9	19	12 AM	031.150.010	132.630.400	134.630.200	033.150.200
	1.5	20-40 s	180	14.1	20	15 AY	031.150.011	132.630.200	134.630.300	033.150.400

S3 P



The S3 P is our most compact pressure fed gun with outstanding ergonomics for small hands and tight areas where touch up or shading is required.

- Very high transfer efficiency
- Outstanding atomization quality
- Improved ergonomics: smallest and lightest gun



SPECIFICATIONS

Sprayed materials	Shades, varnishes, lacquers, stains, polyurethans, 2 component
Body of the gun	Polished Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	1.5-2.5 (HTI) – 3 (HPA)
Air consumption (m3/h)	12 (HTI) – 10 (HPA)
Weight (g)	388
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

FITTINGS

Air inlet	M 1/4" NPS
Fluid inlet	M 1/4" NPS

SEAL KITS

Description	Part number
Seal kit	129.150.901
Repair kit (includes the seal kit)	129.150.902

AVAILABLE GUN CONFIGURATIONS

Spray technology	Gun Name	Nozzle size (mm)	Max fluid viscosity in CA4	Fluid Output (cc/min)	Air consumption (m3/h)	Fan width at 20 cm (cm)	Part Number
-	S3 P Without Projector	-	-	-	-	-	135.150.200
HVLP (HTI)	S3 P - 08 EPX KHVLP	0.8	14 – 20 s	300	25	25	135.150.204
	S3 P – 10 EPX KHVLP	1.0	20 – 30 s	461	26	26	135.150.205
	S3 P - 12 EPX KHVLP	1.2	30 – 40 s	745	26	26	135.150.206
	S3 P - 08 PX	0.8	14 – 20 s	307	10	23	135.150.201
CONV (HPA)	S3 P – 10 PX	1.0	20 – 30 s	506	10	23.5	135.150.202
	S3 P - 12 PX	1.2	30 – 40 s	731	10	25	135.150.203
	S3 P – 10 PGL	1.0	20 – 30 s	148	4	13	135.150.207



AVAILABLE PROJECTORS

Part Number										
Spray technology	Max fluid viscosity in CA4	Nozzle size (mm)	Fluid Output (cc/min)	Air consumption (m3/h)	Fan width at 20 cm (cm)	Projector type	Projector	Aircap	Nozzle	Needle
HVLP (HTI)	14 – 20 s	0.8	300	25	25	08 EPX KHVLP	031.150.004	132.150.100	134.630.400	033.150.100
	20 – 30 s	1.0	461	26	26	10 EPX KHVLP	031.150.005	132.150.100	134.630.100	033.150.500
	30 – 40 s	1.2	745	26	26	12 EPX KHVLP	031.150.006	132.150.100	134.630.200	033.150.200
	14 – 20 s	0.8	307	10	23	08 PX	031.150.001	132.631.100	134.630.400	033.150.100
CONV (HPA)	20 – 30 s	1.0	506	10	23.5	10 PX	031.150.002	132.631.100	134.630.100	033.150.500
	30 – 40 s	1.2	731	10	25	12 PX	031.150.003	132.631.100	134.630.200	033.150.200
	20 – 30 s	1.0	148	4	13	10 PGL	031.150.007	132.640.100	134.630.100	033.150.300

Aircaps for S3 airspray guns



AIRCAPS FOR HTI AIRSPRAY GUNS

	ESG K HVLP	EPX K HVLP
Guns	S3 G HTi	S3 P HTi
Technology	HVLP (HTi)	HVLP (HTi)
Part number	132.150.200	132.150.100
Air consumption @ 2 bar	7.5 m³/h	12 m³/h
Fan shape	Flat	Flat
Atomization Quality	Excellent	Excellent
Nozzle size	08/12	08/12



AIRCAPS FOR HPA AIRSPRAY GUNS

	AM	AM	AY	PX
Guns	S3 G HPA	S3 A HPA	S3 A HPA	S3 P HPA
Technology	CONV (HPA)	CONV (HPA)	CONV (HPA)	CONV (HPA)
Part number	132.630.400	132.630.400	132.630.200	132.631.100
Air consumption @ 2 bar	10 m³/h	13 m³/h	14 m³/h	10 m³/h
Fan shape	Flat	Flat	Flat	Flat
Atomization quality	Very good	Very good	Very good	Very good
Transfer efficiency	72%	52%	54%	76%
Nozzle size	08/12	08 /15	15	08/12



AIRCAPS FOR HPA AIRSPRAY GUNS - AIRCAPS FOR SPRAYING LINES

	PGL	PGL
Guns	S3 G HPA	S3 P HPA
Technology	CONV (HPA)	CONV (HPA)
Part number	132.640.100	132.640.100
Fan shape	Line	Line
Atomization quality	Very good	Very good
Nozzle size	10	10

Accessories for airspray guns

EXTENSIONS FOR FPRO P AND FPRO LOCK P SPRAY GUNS

Designed for painting the inside of tubes (360° circular fan) or the inside of cavities (lateral fan)

EXTENSIONS FOR PRESSURE-FED FPRO P AND FPRO LOCK P SPRAY GUNS

Fan type	Internal diameter (mm)	Length in mm	Nozzle type	Part number
Round	8	150	12	075.900.213
Round	8	150	18	075.900.224
Lateral	8	250	12	075.900.111
Lateral	8	250	18	075.900.122
Lateral	8	400	12	075.900.311
Lateral	8	400	18	075.900.322

GRAVITY CUPS

Guns	Description	Material	Usage	Capacity (L)	Fitting	Part number
M22 G/ FPro G	White cup	Polyacetal	Solvent and water based paints	0.25	M 1/4" BSP	139.280.200
	Phosphor cup	PeHD	Solvent and water based paints PU, pre-catalyzed paint, UV paint	0.6	M 1/4" BSP	139.790.100
S3 G	White Cup	Polyacetal	Solvent and water-based paints	0.25	M 1/4" BSP	139.280.200
	Grey Cup	PeHD	PU- and pre-catalyzed paints	0.25	M 1/4" BSP	139.280.250

SUCTION CUP - WITH NON-DRIP SYSTEM

1/4 turn quick opening SM6 aluminum twist cup (for M22 and M21 ranges)
1/4 turn quick opening PeHD cup (for S3A)

CUP PART NUMBERS FOR FPRO S AND M22A

Description	Material	Fitting	Capacity (L)	Part number
Complete suction cup for FPRO S	Aluminum	F 3/8" NPS	1	138.400.000
Complete SM6 standard suction cup	Aluminum	F 3/8" NPS	1	138.360.000
Fitted cover (with tube)	Aluminum	F 3/8" NPS	-	138.360.200
Cup only	Aluminum	-	1	138.350.100

CUP PART NUMBER FOR S3 A

Description	Fitting	Material	Capacity (L)	Part number
Suction cup (grey)	F 1/4" NPS	PeHD	0.25	138.390.000

SEAL PACKS FOR SM6

Description	Quantity	Part number
Pack of cup seals	10	138.010.900
Pack of filters (200 µm)	4	138.310.300
Pack of non-drip plugs	5	138.350.901
Pack of filters for SM5 (old model) (132 µm)	4	138.010.800

SEAL PACKS FOR S3 A CUP

Description	Quantity	Part number
Pack of 5 non-drip plugs for 0.25 L and 0.6 L cups	5	139.270.210
Pack of filters (200 µm)	4	138.310.300

Accessories for airspray guns

GRAVITY PRESSURE CUP

Guns	Description	Material	Capacity (L)	Fitting	Part number
M22 GSP	Grey gravity pressure pot	PeHD	0.6	M 1/4" BSP	139.270.260
M22 G / FPro G	GSP kit	PeHD	0.6	M 1/4" BSP	

CUP PAPER FILTER

Disposable filter paper, used to strain the paint before pouring it into the cups.

FILTER

Description	Quantity	Part number
Pack of paper filter (260 µm)	10	151.399.903

FUNNELS WITH REMOVABLE SPARE SCREEN FOR CUPS

FUNNELS

Description	Funnel size	Internal diameter (mm)	Screen size (µm)	Use	Part number
Funnel with 2 screens Ø = 50 mm - 210 and 510 µm	Small	105	210 and 510	For cups	057.080.000

SPARE SCREEN

Description	Internal diameter (mm)	Size (µ)	Use	Part number
Spare screen	50	210	For small funnel	057.070.200
	50	510	For small funnel	057.070.100

ACCESSORIES AND FILTERS FOR AIRSPRAY GUNS

FLUID INLET FILTER

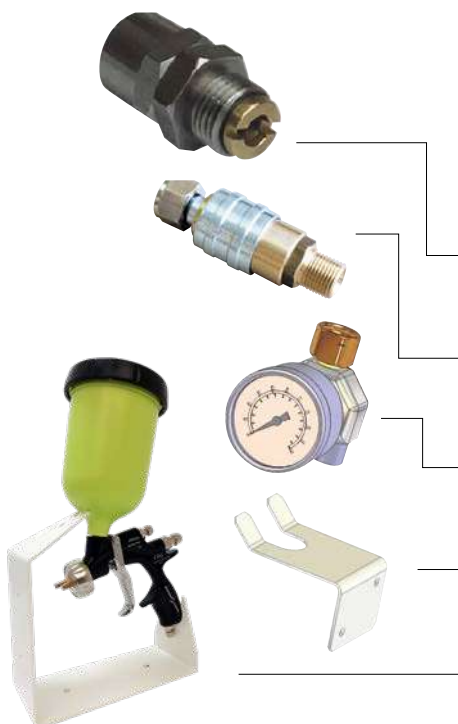
Description	Fittings on gun	Hoses thread	Part number
Fluid Inlet filter with N°6 screen for M22/FPro spray guns (132 µm)	F 3/8" NPS	M 3/8" NPS	129.140.030

SEAL PACKS FOR FLUID INLET FILTER

Description	Quantity	Part number
Pack of n°6 screens (132 µm)	10	151.399.902
Pack of seals	10	129.489.902

VARIOUS ACCESSORIES

Description	Inlet	Outlet	Part number
Air inlet swivel fitting	M1/4" G	F 1/4" G	129.020.070
Air inlet quick-disconnect fitting	Ø5.5	F 1/4" NPS or M 1/4" NPS	905.030.105
Gun inlet pressure gauge for HVLV compliance testing	M 1/4" NPS	F 1/4" NPS	150.070.560
Table stand for gravity-fed spray gun	-	-	049.221.800
Wall support for gravity-fed spray gun	-	-	049.221.900



Notes

Spray guns

Pumps

Machines & Controllers

Accessories

General informations

Automatic spray gun

A35 LP (HTI)



Modular design for Low Volume Production with an outstanding finish quality. Available in two technologies : HVLP and LVLV

- High transfer efficiency (up to 72%)
- Good finish quality
- Modular design & high reliability



SPECIFICATIONS

Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Trigger air pressure (bar mini)	3
Recommended atomization air pressure (bar)	2 - 2.5
Weight (g) (gun only)	497
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	74 (E3 K HVLP) - 72 (EP3)
Air consumption (m³/h)	20 - 30
Wetted parts	Stainless steel - treated stainless steel
ATEX	II2G Ex h IIB T6 Gb X

BASE FOR A35 HTI GUNS

Type	Side outputs	Rear outputs
Fluid circulation	Circulation in the base (⊥)	Circulation in the base (⊥)
Material (base plate)	Aluminum with stainless steel insert	Aluminum with stainless steel insert
Weight (g)	240	480

FITTINGS

Power supply	Gun base	Fittings supplied, non fitted
Fluid	F 1/4" NPS	Quick fittings - Ø 6 x 8 hose
Atomization air	F 1/4" NPS	M 1/4 NPS - air hose int Ø 8 mini
Pilot air	F 1/8" NPS	Quick fittings -air hose Ø 4x6

AVAILABLE GUN CONFIGURATIONS

Spray Technology	Gun name	Aircap type	Nozzles size (mm)	Fluid output (cc/mn)	Base type	Part number with base	Part number without base
LP	A35 HTI w/o projector, w/o base	-	-	-	-	-	129.300.000
HVLP (HTI)	A35 HTI GUN 06 E3 KHVLP	E3 K HVLP	0.6	150	Side outputs	135.300.112	135.300.012
					Rear outputs	135.300.212	
	A35 HTI GUN 07 E3 KHVLP		0.7	200	Side outputs	135.300.101	135.300.001
					Rear outputs	135.300.201	
	A35 HTI GUN 09 E3 KHVLP		0.9	250	Side outputs	135.300.102	135.300.002
					Rear outputs	135.300.202	
	A35 HTI GUN 12 E3 KHVLP		1.2	300	Side outputs	135.300.103	135.300.003
					Rear outputs	135.300.203	
	A35 HTI GUN 15 E3 KHVLP		1.5	350	Side outputs	135.300.104	135.300.004
					Rear outputs	135.300.204	
	A35 HTI GUN 18 E3 KHVLP		1.8	400	Side outputs	135.300.105	135.300.005
					Rear outputs	135.300.205	
LVLV (HTI)	A35 HTI GUN 06 EP3	EP3	0.6	150	Side outputs	135.300.111	135.300.011
					Rear outputs	135.300.211	
	A35 HTI GUN 07 EP3		0.7	200	Side outputs	135.300.106	135.300.006
					Rear outputs	135.300.206	
	A35 HTI GUN 09 EP3		0.9	250	Side outputs	135.300.107	135.300.007
					Rear outputs	135.300.207	
	A35 HTI GUN 12 EP3		1.2	300	Side outputs	135.300.108	135.300.008
					Rear outputs	135.300.208	
	A35 HTI GUN 15 EP3		1.5	350	Side outputs	135.300.109	135.300.009
					Rear outputs	135.300.209	
	A35 HTI GUN 18 EP3		1.8	400	Side outputs	135.300.110	135.300.010
					Rear outputs	135.300.210	

Automatic spray gun

A35 HTi



AVAILABLE PROJECTORS

Part Number											
Spray technology	Product viscosity in CA4	Nozzles size (mm)	Fluid output (cc/mn)	Air consumption (m3/h)	Fan width at 20 cm (cm)		Projector type	Projector	Aircap	Nozzle	Needle
					Minimum	Maximum					
HVLP (HTI)	<20 s	0.6	150	20-30	25	10	E3 K HVLP	031.300.012	132.300.100	134.130.050	033.300.100
		0.7	200	20-30	29	10		031.300.001	033.300.100	134.130.100	033.300.100
		0.9	250	20-30	35	10		031.300.002	033.300.100	134.130.200	033.300.100
		1.2	300	20-30	38	10		031.300.003	033.300.100	134.130.300	033.300.100
	20-40s	1.5	350	20-30	41	10		031.300.004	033.300.200	134.130.600	033.300.200
		1.8	400	20-30	43	10		031.300.005	033.300.200	134.130.700	033.300.200
LVLP (HTI)	<20 s	0.6	150	21-29	24	10	EP3	031.300.011	132.300.300	134.130.050	033.300.100
		0.7	200	21-29	25	10		031.300.006	132.300.300	134.130.100	033.300.100
		0.9	250	21-29	31	10		031.300.007	132.300.300	134.130.200	033.300.100
		1.2	300	21-29	32	10		031.300.008	132.300.300	134.130.300	033.300.100
	20-40s	1.5	350	21-29	34	10		031.300.009	132.300.300	134.130.600	033.300.200
		1.8	400	21-29	38	10		031.300.010	132.300.300	134.130.700	033.300.200

AVAILABLE BASES

Description	Base type	Weight (g)	Wetted parts	Part number
A35 base (circulation in the base (⊥))	side outlet	240	stainless steel	129.300.050
A35 base (circulation in the base (⊥))	rear outlet	480		129.300.060

SUPPORTS AND ACCESSORIES

Description	Part number
Mounting support Ø 16	049.351.000
Mounting support Ø 12	049.351.700
Adjustable mounting support for Ø12 support	049.351.705
Protective cap (x10)	106.380.818

KITS

Description	Part number
Remote adjusting fan width kit	029.253.002

Spray guns

Pumps

Machines & Controllers

Accessories

General informations

A 35 HPA



Modular design for high volume production with an excellent finish quality. Wide fan pattern available.

- Answers to high production **Airspray** rates
- Designed for high viscosity material
- Modular design & high reliability



SPECIFICATION

Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Trigger air pressure (bar mini)	3
Recommended atomization air pressure (bar)	3 - 5
Weight (g) (gun only)	497
Maximum Fluid Temperature (°C)	50
Air consumption (m³/h)	33
Wetted parts	Stainless steel - treated stainless steel
ATEX	II2G Ex h IIB T6 Gb X

BASE FOR A35 HPA GUNS

Type	Side outputs	Rear outputs
Fluid circulation	Circulation in the base (⊥)	Circulation in the base (⊥)
Material (base plate)	Aluminum with stainless steel insert	Aluminum with stainless steel insert
Weight (g)	240	480

FITTINGS

Power supply	Gun base	Fittings supplied, non fitted
Fluid	F 1/4" NPS	Quick fitting - Ø 6 x 8 hose
Atomization air	F 1/4" NPS	M 1/4" NPS - air hose Ø 7mm int
Pilot air	F 1/8" NPS	Quick fittings - air hose Ø 4x6

AVAILABLE GUN CONFIGURATIONS

Spray Technology	Gun name	Aircap	Nozzles size (mm)	Base type	Part number with base	Part number without base
CONV (HPA)	A35 HPA w/o projector, w/o base	-	-	-	-	129.305.000
	A35 HPA GUN 06 EN3L	EN 3L	0.6	Side outputs	135.305.106	135.305.006
				Rear utputs	135.305.206	
	A35 HPA GUN 07 EN3L		0.7	Side outputs	135.305.101	135.305.001
				Rear utputs	135.305.201	
	A35 HPA GUN 09 EN3L		0.9	Side outputs	135.305.102	135.305.002
				Rear utputs	135.305.202	
	A35 HPA GUN 12 EN3L		1.2	Side outputs	135.305.103	135.305.003
				Rear utputs	135.305.203	
	A35 HPA GUN 15 EN3L		1.5	Side outputs	135.305.104	135.305.004
				Rear utputs	135.305.204	
	A35 HPA GUN 18 EN3L		1.8	Side outputs	135.305.105	135.305.005
				Rear utputs	135.305.205	

Automatic spray gun

A 35 HPA



AVAILABLE PROJECTORS

AVAILABLE PROJECTORS								Part Number				
Spray technology	Nozzles	Product viscosity in CA4 (s) or centipoises (cps)	Fluid output (cc/mn)	Air consumption (m³/h)	Fan width at 20 cm (cm)		Projector type	Projector	Aircap	Nozzle	Needle	
	Size (mm)				Minimum	Maximum						
CONV (HPA)	0.6	< 20 s	150	24 - 44	10	30	06 EN 3L	031.305.006	132.305.200	134.130.050	033.300.100	
	0.7		200	24 - 44	10	31	07 EN 3L	031.305.001	132.305.200	134.130.100	033.300.100	
	0.9		250	24 - 44	10	34	09 EN 3L	031.305.002	132.305.200	134.130.200	033.300.100	
	1.2	20 - 40 s	300	24 - 44	10	38	12 EN 3L	031.305.003	132.305.200	134.130.300	033.300.100	
	1.5		350	24 - 44	10	39	15 EN 3L	031.305.004	132.305.200	134.130.600	033.300.200	
	1.8		400	24 - 44	10	41	18 EN 3L	031.305.005	132.305.200	134.130.700	033.300.200	

AVAILABLE BASE

Description	Base type	Weight (g)	Wetted parts	Part number
A35 base (circulation in the base (⊥))	side outlet	240	stainless steel	129.300.050
A35 base (circulation in the base (⊥))	rear outlet	480		129.300.060

SUPPORTS AND ACCESSORIES

Description	Part number
Mounting support Ø 16	049.351.000
Mounting support Ø 12	049.351.700
Adjustable mounting support for Ø12 support	049.351.705
Protective cap (x10)	106.380.818

KITS

Description	Part number
Remote adjusting fan width kit	029.253.002

Spray guns

Pumps

Machines & Controllers

Accessories

General informations

A25F HPA Flowmax® gun



Gun shown fitted on base

Flowmax® technology: unsurpassed reliability and multi-products use. The A25F Flowmax® gun is designed for an intensive use. The sealing of the gun is made with a bellow guaranteeing a high level of reliability. It is recommended for spraying paints, glues, water-based materials and UV products.

- **High transfer efficiency**
- **Outstanding finish quality**
- **Modular design & high reliability**



SPECIFICATIONS

Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Trigger air pressure (bar mini)	4
Weight (g) (gun only)	985
Weight (g) (gun with base plate)	1280
Maximum Fluid Temperature (°C)	50
Air consumption (m³/h)	24 (2.5 bar)
Body of the gun	Stainless steel
Wetted parts	Stainless steel - PTFE
ATEX	II2G Ex h IIB T6 Gb X

FITTINGS

Power supply	Gun base	Non fitted supplied fitting
Fluid	F 1/4" NPS	Elbow M 1/4" BSP - Ø 6x8 hose
Control Air	F 1/8" NPS	M 1/8" BSP - Ø 4x6 hose
Spraying air	F 1/4" NPS	Straight M 1/4" BSP - M 1/4" NPS for conductive hose Ø8 int min

AVAILABLE GUN CONFIGURATION

Spray technology	Gun name	Aircap	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm) Minimum	Fan width at 20 cm (cm) Maximum	Part number with base	Part number without base
CONV (HPA)	A25F Flowmax®07 N3C	N3C	0.7	200	10	24	151.260.809	135.420.001
	A25F Flowmax®09 N3C		0.9	250	10	26	151.260.810	135.420.002
	A25F Flowmax®12 N3C		1.2	300	10	34	151.260.811	135.420.003

AVAILABLE PROJECTORS

Spray technology	Nozzle Size (mm)	Product viscosity in CA4 (s) or centipoises (cps)	Fluid output (cc/mn)	Air consumption (m³/h)	Fan width at 20 cm (cm)		Projector type	Aircap	Nozzle	Needle for A25F
					Minimum	Maximum				
CONV (HPA)	0.7	< 20 s	180	22	6	35	07 N 3C	132.021.750	134.021.100	033.420.100
	0.9		250	22	6	35	09 N 3C	132.021.750	134.020.100	033.420.100
	1.2		350	22	6	35	12 N 3C	132.021.750	134.020.200	033.420.100
	0.7		180	22	6	35	07 N 23C	132.021.700	134.021.100	033.420.100
	0.9		250	22	6	35	09 N 23C	132.021.700	134.020.100	033.420.100
	1.2		350	24	6	35	12 N 23C	132.021.700	134.020.200	033.420.100
	0.7		180	22	6	35	07 LP 23	132.060.100	134.021.100	033.420.100
	0.9		250	22	6	35	209 LP 23	132.060.100	134.020.100	033.420.100
	1.2		350	22	6	35	212 LP 23	132.060.100	134.020.200	033.420.100



Part Number

A25F HPA Flowmax® gun

AVAILABLE BASE

Description	Base type	Weight (g)	Wetted parts	Part number
A25 F (circulation in the base (⊥))	side outlet	300	stainless steel	129.420.050

AVAILABLE EXTENSION

Fan type	Internal diameter (mm)	Length (mm)	Nozzle	Part number
Lateral	8	250	12	075.650.111
Lateral	8	400	12	075.650.311
Circular	20	400	8	075.750.111

SUPPORTS AND ACCESSORIES

Description	Part number
Mounting support Ø 16	049.351.000
Mounting support Ø 12	049.351.700
Adjustable mounting support for Ø12 support	049.351.705
Protective caps (x10)	106.380.818

KITS

Description	Part number
Seal kit	129.420.901
Remote adjusting fan width kit	029.253.002

A 29 HTi



High finish quality thanks to low pressure technology. Available in two configurations : HVLP and LVLP.

- High transfer efficiency (up to 72%)
- Good finish quality
- Perfect compromise between HPA and HVLP technologies



SPECIFICATIONS

Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Trigger air pressure (bar mini)	3
Weight (g) (gun only)	585
Maximum Fluid Temperature (°C)	50
Air consumption (m³/h)	20 - 30
Fluid circulation	yes
Wetted parts	Stainless steel - Treated stainless steel
ATEX	II2G Ex h IIB T6 Gb X

FITTINGS

Power supply	Gun	Hoses
Fluid	M 3/8 NPS	Ø 7 mn Int hose
Atomization air	Quick fittings	Ø 8 x 10 polyamide hose
Pilot air	Quick fittings	Ø 4 x 6 polyamide hose

AVAILABLE GUN CONFIGURATION

Spray Technology	Gun name	Aircap	Nozzles size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)		Part number
					Minimum	Maximum	
LP	A29 HTi w/o projector, w/o base	-	-	-	-	-	129.310.000
HVLP (HTi)	A29 HTi GUN 06 E3 KHVLP	E3 K HVLP	0.6	150	10	25	135.310.012
	A29 HTi GUN 07 E3 KHVLP		0.7	200	10	29	135.310.001
	A29 HTi GUN 09 E3 KHVLP		0.9	250	10	35	135.310.002
	A29 HTi GUN 12 E3 KHVLP		1.2	300	10	38	135.310.003
	A29 HTi GUN 15 E3 KHVLP		1.5	350	10	41	135.310.004
	A29 HTi GUN 18 E3 KHVLP		1.8	400	10	43	135.310.005
LVLP (HTi)	A29 HTi GUN 06 EP3	EP3	0.6	150	10	24	135.310.011
	A29 HTi GUN 07 EP3		0.7	200	10	25	135.310.006
	A29 HTi GUN 09 EP3		0.9	250	10	31	135.310.007
	A29 HTi GUN 12 EP3		1.2	300	10	32	135.310.008
	A29 HTi GUN 15 EP3		1.5	350	10	34	135.310.009
	A29 HTi GUN 18 EP3		1.8	400	10	38	135.310.010

Automatic spray gun

A 29 HTi



AVAILABLE PROJECTORS

Available Projectors							Part Number				
Spray technology	Nozzles size (mm)	Product viscosity in CA4	Fluid output (cc/mn)	Air consumption (m3/h)	Fan width at 20 cm (cm)		Projector type	Projector	Aircap	Nozzle	Needle
					Minimum	Maximum					
HVLP (HTI)	0.6	<20 s	150	20-30	10	25	06 E3 K HVLP	031.300.012	132.300.100	134.130.050	033.300.100
	0.7		200	20-30	10	29	07 E3 K HVLP	031.300.001	132.300.100	134.130.100	033.300.100
	0.9		250	20-30	10	35	09 E3 K HVLP	031.300.002	132.300.100	134.130.200	033.300.100
	1.2	20-40s	300	20-30	10	38	12 E3 K HVLP	031.300.003	132.300.100	134.130.300	033.300.100
	1.5		350	20-30	10	41	15 E3 K HVLP	031.300.004	132.300.100	134.130.600	033.300.200
	1.8		400	20-30	10	43	18 E3 K HVLP	031.300.005	132.300.100	134.130.700	033.300.200
LVLP (HTI)	0.6	<20 s	150	21-29	10	24	06 EP3	031.300.011	132.300.300	134.130.050	033.300.100
	0.7		200	21-29	10	25	07 EP3	031.300.006	132.300.300	134.130.100	033.300.100
	0.9		250	21-29	10	31	09 EP3	031.300.007	132.300.300	134.130.200	033.300.100
	1.2	20-40s	300	21-29	10	32	12 EP3	031.300.008	132.300.300	134.130.300	033.300.100
	1.5		350	21-29	10	34	15 EP3	031.300.009	132.300.300	134.130.600	033.300.200
	1.8		400	21-29	10	38	18 EP3	031.300.010	132.300.300	134.130.700	033.300.200

SUPPORTS AND ACCESSORIES

Description	Part number
Mounting support Ø 16	049.351.000
Adjustable mounting support for Ø12 support	049.351.705
Remote fan width adjusting kit	029.697.003
Protective caps (x10)	106.380.818

A 29 HPA

High finish quality thanks to CONV technology.



SPECIFICATIONS

Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Trigger air pressure (bar mini)	3
Weight (g) (gun only)	585
Maximum Fluid Temperature (°C)	50
Air consumption (m³/h)	24 - 44
Wetted parts	Aluminum - Stainless steel
ATEX	II2G Ex h IIB T6 Gb X

- Answers to high production **Airspray** rates
- Ideal for high precision & small output applications
- Designed for high viscosity materials



FITTINGS

Power supply	Gun	Hoses
Fluid	M 3/8 NPS	Ø 7 mm int hose
Atomization air	Quick fittings	Ø 8 x 10 polyamide hose
Pilot air	Quick fittings	Ø 4 x 6 polyamide hose

AVAILABLE GUN CONFIGURATION

Spray Technology	Gun name	Aircap	Nozzles size (mm)	Fluid output (cc/mn)	Part number
CONV (HPA)	A29 HPA w/o projector	-	-	-	129.315.000
	A29 HPA GUN 06 EN 3L	EN 3L	0.6	150	135.315.006
	A29 HPA GUN 07 EN 3L		0.7	200	135.315.001
	A29 HPA GUN 09 EN 3L		0.9	250	135.315.002
	A29 HPA GUN 12 EN 3L		1.2	300	135.315.003
	A29 HPA GUN 15 EN 3L		1.5	350	135.315.004
	A29 HPA GUN 18 EN 3L		1.8	400	135.315.005

AVAILABLE PROJECTORS

Spray technology	Nozzles Size (mm)	Product viscosity in CA4 (s) or centipoises (cps)	Fluid output (cc/mn)	Air consumption (m³/h)	Fan width at 20 cm (cm)		Projector type	Part number			
					Minimum	Maximum		Projector	Aircap	Nozzle	Needle
CONV (HPA)	0.6	< 20 s	150	24 - 44	10	30	06 EN 3L	031.305.006	132.305.200	134.130.050	033.300.100
	0.7		200	24 - 44	10	31	07 EN 3L	031.305.001	132.305.200	134.130.100	033.300.100
	0.9		250	24 - 44	10	34	09 EN 3L	031.305.002	132.305.200	134.130.200	033.300.100
	1.2	20 - 40 s	300	24 - 44	10	38	12 EN 3L	031.305.003	132.305.200	134.130.300	033.300.100
	1.5		350	24 - 44	10	39	15 EN 3L	031.305.004	132.305.200	134.130.600	033.300.200
	1.8		400	24 - 44	10	41	18 EN 3L	031.305.005	132.305.200	134.130.700	033.300.200



SUPPORTS AND ACCESSORIES

Description	Part number
Mounting support Ø 16	049.351.000
Adjustable mounting support for Ø12 support	049.351.705
Protective cap for automatic guns (6)	106.380.856
Remote fan width adjusting kit	029.697.003

A28 HPA

Automatic gun with Superlife technology (Kremlin patent) for enamels, high solids and solvent-free materials.

- High transfer efficiency
- Outstanding finish quality
- Designed for high solids & solvent-free materials



SPECIFICATIONS

Maximum air inlet pressure (bar)	6
Trigger air pressure (bar mini)	5,5
Maximum fluid pressure (bar)	3
Recommended atomization air pressure (bar)	6
Weight (g)	1050
Maximum Fluid Temperature (°C)	50
Air consumption (m³/h)	24 @ 4 bar
Body of the gun	Stainless steel
Wetted parts	Stainless steel, treated stainless steel, PTFE, elastomer polyurethan
ATEX	II2G Ex h IIB T6 Gb X

FITTINGS

Power supply	Gun	Recommended hoses
Fluid	F 3/8" NPS	Ø 10 mm internal
Trigger air	F 1/8" NPS	Ø 6 or 8 mm upon frequency of use
Spraying air	F 1/4" NPS	Ø 10 mm internal

AVAILABLE GUN CONFIGURATION

Spray technology	Gun name	Aircap	Nozzle size (mm)	Fluid output (cc/mn)	Fan width (cm)	Part number
CONV (HPA)	A 28 HPA w/o projector	-	-	-	-	129.417.000
	A 28 HPA 207 Z 23A	Z 23A	0.7	100	20-30	135.417.001
	A 28 HPA 209 Z 23A		0.9	200	20-30	135.417.002
	A 28 HPA 212 Z 23A		1.2	400	20-30	135.417.003
	A 28 HPA 212 N 23C	N 23C	1.2	400	20-30	135.417.004
	A 28 HPA 215 N 23C		1.5	500	25-35	135.417.005
	A 28 HPA 218 N 23C		1.8	600	25-35	135.417.006

AVAILABLE AIRCAPS

Description	Part number
Z 23 A	132.020.550
N 23 C	132.021.750
R 23 with retaining ring	132.021.300
R 24	132.021.800
R 29	132.021.400
S 23	132.021.900
S 29	132.021.500



A28 HPA



AVAILABLE TREATED NOZZLES

Description	Part number
207T	134.025.050
209T	134.025.100
212T	134.025.200
215T	134.025.300
218T	134.025.400
222T	134.025.600
227T	134.025.700
233T	134.025.800
240T	134.025.900

SPARE PARTS

Description	Part number
Diaphragm assembly	129.417.910
Needle-end for nozzle type 7 to 27 (x10)	129.417.005
Needle-end for nozzle type 33 and 40 (x10)	129.417.014
PeHD Needle-end for nozzle type 15 and 18	129.417.020

SEAL KITS

Description	Part number
Seal kit	129.417.900
Repair kit	129.417.901

KITS

Description	Part number
Remote adjusting fan width kit for A26 - A28	029.417.019
Fixing bracket	029.417.011
M5 x 16 Screw	933.011.194
G 054x14 Pin	906.120.089
Air connector for adjusting fan width – A26 and A28 gun	029.417.019

A3 HPA

The A3 compact automatic low pressure spray gun is recommended for touch-up & delicate work or when volume is an issue.

- High transfer efficiency
- Outstanding finish quality
- High reliability



SPECIFICATIONS

Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Trigger air pressure (bar mini)	3
Recommended atomization air pressure (bar)	3 - 5
Weight (g)	320
Maximum Fluid Temperature (°C)	50
Air consumption (m³/h)	10
Body of the gun	Aluminum
Wetted parts	Aluminum, stainless steel, treated stainless steel
ATEX	II2G Ex h IIB T6 Gb X

FITTINGS

Power supply	Gun	Fitting
Fluid	F 1/8" NPS	Not supplied
Control air	F 1/8" NPS	Straight M 1/8" BSP - Hose Ø 4 x 6
Pulverization air	F 1/8" NPS	Not supplied

AVAILABLE GUN CONFIGURATION

Spray technology	Gun name	Aircap	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)		Part number
					Minimum	Maximum	
CONV (HPA)	A3 HPA 08 PX	PX	0.8	200	3	10	135.713.014
	A3 HPA 10 PX		1	300	4	15	135.713.011
	A3 HPA 06 PGL		0.6	180	0.4	2.5	135.713.017
	A3 HPA 10 PGL	PGL	1	300	0.4	3	135.713.015
	A3 HPA 12 PX		1.2	450	5	15	135.713.012



AVAILABLE PROJECTORS

Spray technology	Nozzles Size (mm)	Product viscosity in CA4 (s)	Fluid output (cc/mn)	Air consumption (m³/h)	Fan width at 20 cm (cm)		Projector type	Projector	Aircap	Nozzle	Needle
					Minimum	Maximum					
CONV (HPA)	0.8	< 20 s	100	10	3	10	08 PX	031.713.014	132.631.100	134.630.400	033.713.400
	1		120		4	15	10 PX	031.713.011	132.631.100	134.630.100	033.713.000
	1.2	< 30 s	150		5	15	12 PX	031.713.012	132.631.100	134.630.200	033.713.100
	0.6	< 20 s	80		0.4	2.5	06 PGL	031.713.017	132.640.100	134.640.300	033.713.500
	1		120		0.4	3	10 PGL	031.713.015	132.640.100	134.640.100	033.713.300

SUPPORT

Description	Part number
Mounting support (Ø16 - length 3.9 inch)	049.351.200

KITS

Description du kit	Kit part number
A3 indexed needle adjustment kit (precise output adjustment with indexed positioning)	129.713.050

Airspray Tanks

To feed, under pressure, all Airspray automatic and manual pressure guns. Our Airspray Tanks are CE, ATEX and ASME certified. Our agitators are lube-free agitator. They are directly assembled on some tanks, but can also be easily added afterwards to any 10L, 20L or 50L tank.

- **Easy to work with:** Easy to use, easy maintenance
- **New Premium Agitator:** Lube-free and very high performances
- **Smart Lid:** User friendly and adaptable



SPECIFICATIONS

Air Inlet	1/4" NPS
Air Outlet (to the gun)	1/4" NPS
Maximum Pressure	From 3,5 to 7 Bar
Capacity	from 2L to 50L
Air Regulator	1 per tank
Max Fluid Temperature	45°C (113°F)



CONFIGURATION OF THE AIRSPRAY TANKS

Name	Capacity	Tank Material	Agitator	Weight	Max Fluid Pressure	Product Outlet	Product Output	Reference
Airspray Tank 2L ALU TOP no agi	2L 0.5 Gal US	Aluminum	No	1.3kg 2.9Lbs	3.5 Bar 50 psi	Male 3/8" NPS	Top	152.302.000
Airspray Tank 4L SST BOT no agi	4L 1 Gal US	Stainless Steel	No	6.0kg 13.2Lbs	4.1 Bar 60 psi	Male 3/8" NPS	Bottom	152.304.210
Airspray Tank 10L CST TOP no agi (2)	10L 3 Gal US	Carbon Steel	No	11.4kg 25.1Lbs	4.1 Bar 60 psi	Male 3/8" NPS	Top	152.310.100
Airspray Tank 10L SST TOP no agi	10L 3 Gal US	Stainless Steel	No	11.4kg 25.1Lbs	4.1 Bar 60 psi	Male 3/8" NPS	Top	152.310.200
Airspray Tank 10L SST TOP w/agi	10L 3 Gal US	Stainless Steel	Yes	13.7kg 30.2Lbs	4.1 Bar 60 psi	Male 3/8" NPS	Top	152.310.201
Airspray Tank 20L SST TOP no agi	20L 5 Gal US	Stainless Steel	No	19.4kg 42.8Lbs	4.1 Bar 60 psi	Male 3/8" NPS	Top	152.320.200
Airspray Tank 20L SST TOP w/agi	20L 5 Gal US	Stainless Steel	Yes	22.8kg 50.3Lbs	4.1 Bar 60 psi	Male 3/8" NPS	Top	152.320.201
HP Airspray Tank 20L SST TOP no agi	20L 5 Gal US	Stainless Steel	No	20.2kg 44.5Lbs	7 Bar 100 psi	Male 3/8" NPS	Top	152.320.500
Airspray Tank 20L SST BOT no agi	20L 5 Gal US	Stainless Steel	No	20.4kg 45.0Lbs	4.1 Bar 60 psi	Female 3/4" PT	Bottom	152.320.210
Airspray Tank 20L SST BOT w/agi	20L 5 Gal US	Stainless Steel	Yes	24.0kg 52.9Lbs	4.1 Bar 60 psi	Female 3/4" PT	Bottom	152.320.211
HP Airspray Tank 20L SST BOT no agi	20L 5 Gal US	Stainless Steel	No	21.2kg 46.7Lbs	7 Bar 100 psi	Female 3/4" PT	Bottom	152.320.510
HP Airspray Tank 20L SST BOT&TOP no agi	20L 5 Gal US	Stainless Steel	No	24.0kg 52.9Lbs	7 Bar 100 psi	Male 3/8" NPS + Female 3/4" PT	Top & Bottom	152.320.520
Airspray Tank 50L SST TOP no agi	50L 13 Gal US	Stainless Steel	No	29.5kg 65.0Lbs	4.1 Bar 60 psi	Male 3/8" NPS	Top	152.350.200
Airspray Tank 50L SST TOP w/agi	50L 13 Gal US	Stainless Steel	Yes	29.5kg 65.0Lbs	4.1 Bar 60 psi	Male 3/8" NPS	Top	152.350.201
Airspray Tank 50L SST BOT no agi	50L 13 Gal US	Stainless Steel	No	29.5kg 65.0Lbs	4.1 Bar 60 psi	Female 3/4" PT	Bottom	152.350.210
Airspray Tank 50L SST BOT w/agi	50L 13 Gal US	Stainless Steel	Yes	28.0kg 61.7Lbs	4.1 Bar 60 psi	Female 3/4" PT	Bottom	152.350.211
Airspray Tank 50L SST BOT&TOP no agi	50L 13 Gal US	Stainless Steel	No	29.5kg 65.0Lbs	4.1 Bar 60 psi	Male 3/8" NPS + Female 3/4" PT	Top & Bottom	152.350.220

(1) Except 152.310.100

(2) Benefits from a removable Stainless Steel bucket

ACCESSORIES

Name	Benefit	Part number
Air Supply Assembly for 1 gun	Set the Atomization Air from the Spray gun directly on your tank	152.300.080
Trolley	Easily move the tanks (not compatible with 152.350.210, 152.350.211, 152.350.220)	151.242.000
Nylon NP-02A blade for agitator	Use a Nylon blade (3 blades shape) on the agitator	152.300.065
Complete Agitator 10L	Add an agitator on any 10L tank (Except 152.310.100)	152.300.070
Complete Agitator 20L	Add an agitator on any 20L tank	152.300.071
Complete Agitator 50L	Add an agitator on any 50L tank	152.300.072
SST fitting M $\frac{3}{4}$ " BSP – M3/8" NPS	Adapt the bottom output of the 20L and 50L tanks to Sames Kremlin standard hoses	050.102.654
10 L. Stainless steel bucket		152.300.083



Funnel for pressure pot



FUNNELS WITH REMOVABLE SPARE SCREEN FOR PRESSURE POTS

FUNNELS

Description	Funnel size	Internal diameter (mm)	Screen size (μ)	Use	Part number
Large funnels with 2 screens (510 and 210 μ)	Large	400	210 and 510	10 L - 30 L	057.110.000
Small funnels with 2 screens (510 and 210 μ)	Standard	180	210 and 510	5 L	057.090.000

SPARE SCREEN

Description	Internal diameter (mm)	Size (μ)	Use	Part number
Spare screen	200	210	For large funnel	057.110.200
		510	For large funnel	057.110.100
	75	210	For standard funnel	057.090.200
		510	For standard funnel	057.090.100

ACCESSORIES AND PARTS

ACCESSORIES

Description	Capacity (L)	Ø/Dimensions	Part number
Stainless steel spare bucket	10	Ø240 x 265	053.330.200
	30	Ø300 x 420	053.410.200
	50	Ø380 x 420	052.220.015
Nitrile cover seal	5	Ø 175	052.440.001
	10	Ø 250	052.010.002
	30	Ø 320	052.050.008
	50	Ø 400	052.130.006
EPDM cover seal ⁽¹⁾ - in option for galvanized pressure pots	5	Ø 175	052.440.002
	10	Ø 250	052.010.022
	30	Ø 320	052.050.013
	50	Ø 400	052.130.009
EPDM cover seal ⁽¹⁾ - in option for stainless steel pressure pots	15-30-52	Ø 290	92009

⁽¹⁾ Recommended with acetone products

REGULATORS

Description	Part number
Air regulator 1/4" - 3.5B Phosphor knob front	116.240.500
2 regulators with gauge 1/4", 1 inlet valve, 1 outlet valve M 1/4" NPS	019.400.000
2 regulators with gauge (1/4" + 1/2"), 1 inlet valve, 2 outlet valves M 1/4" NPS	019.390.000

MOTORIZED AGITATOR

Description	Capacity (L)	Part number
Motorized agitator	10L pressure pots	052.220.055
	30L pressure pots	052.126.010
	50L pressure pots	052.220.050

[illegible]

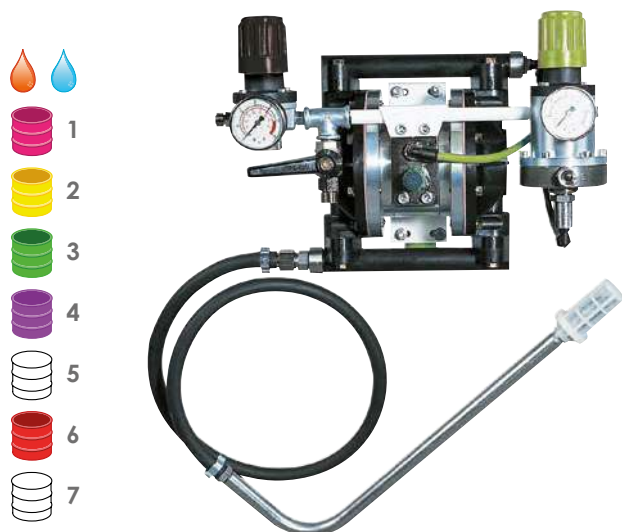
General informations

Diaphragm pumps

PMP 150 pump

The PMP-150 diaphragm pump is designed for applications requiring a 1:1 pressure ratio and can be used on some adhesive applications and harsh or high viscosity coatings.

- **Simple design: easy operation and maintenance**
- **Compact diaphragm technology: constant and pulse-free delivery for superior finish**
- **Designed for water-based and solvent-based materials**



SPECIFICATIONS

Pressure ratio	1/1
Fluid volume per cycle (cm ³)	100
Number of cycles per litre of products	10
Air consumption (m ³ /h) at 30 cycles/mn at 4 bar	1.1
Fluid Output at 30 cycles/mn (l/mn)	3
Free flow rate (L/mn)	19
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Maximum Fluid Temperature (°C)	50
Sound level (dBA)	<70
Weight (kg) - bare pump	5
Wetted parts	PTFE, Polypropylene, Stainless steel
Height (cm) - wall-mounted	24
Width (cm) - wall-mounted pump	36
Depth (cm) - wall-mounted pump	26

FITTINGS

Air inlet (valve)	F 3/8" BSP
Air outlet (atomization air)	M 1/4" NPS
Fluid Inlet	M 18 x 125
Fluid Outlet	M 3/8" NPS

AVAILABLE PUMP CONFIGURATION

Set-up	Air motor power regulator	Atomization air regulator	Air regulator Fluid pressure	Suction rod	Drain rod	Pump output filter	Part number
Bare pump	-	-	-	-	-	-	144.931.000
Wall mounted	•	•	•	-	-	-	151.759.900
Wall mounted	•	•	•	•	-	-	151.753.000
Wall mounted	•	•	•	•	-	•	151.759.100
Cart mounted	•	•	•	•	-	-	151.754.000
Wall-mounted with stainless steel circulation	-	•	•	•	-	-	151.757.000
Wall-mounted	-	•	•	•	-	-	151.751.000

OPTIONS

Description	Can be fitted on	Part number
Stainless steel circulation kit (to be included: wall bracket ref: 056.100.199)	Wall-mounted and mobile pumps	151.757.010
Motor air supply kit	Bare pump	151.753.050

PMP 150 pump

SEAL KITS

Description	Part number
PMP motor seal kit	144.931.091
Fluid section seal kit (PTFE)	144.931.092
Fluid section seal kit (EPDM)	144.931.095
Fluid section seal kit (FPM)	144.931.096

FITTING FOR ELECTROSTATIC INSTALLATION

Description	Part number
Adaptator F 38"NPS/M 1/2" JIC	050.123.306

ACCESSORIES

Description	Part number
2 liters gravity cup kit with bracket	151.758.100
Tripod for PMP 150	051.755.010
2 liters gravity cup kit without bracket	151.662.355
Single Post Cart	051.730.110
Complete wall mounting bracket	051.751.030
suction rod – ID15 – Drum 60L – F18x125 + Strainer	049.596.010

PMP 150 Pratik pump

The PMP-150 Pratik diaphragm pump is a floor mounted version and is designed for applications requiring a 1:1 pressure ratio and can be used on some adhesive applications and harsh or high viscosity coatings.

- Easy operation and maintenance
- Compatible with most water-based materials
- Easy to carry



SPECIFICATIONS

Pressure ratio	1/1
Fluid volume per cycle (cm ³)	100
Number of cycles per litre of products	10
Air consumption (m ³ /h) at 30 cycles/mn at 4 bar	1.1
Fluid Output at 30 cycles/mn (l/mn)	3
Free flow rate (L/mn)	19
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Maximum Fluid Temperature (°C)	50
Sound level (dBA)	<70
Weight (kg) - bare pump	5
Wetted parts	PTFE, Polypropylene, Stainless steel
Height (cm)	87
Width (cm)	39
Depth (cm)	40

FITTINGS

Air inlet (valve)	F 3/8" BSP
Air outlet (atomization air)	M 1/4" NPS
Fluid Inlet	M 18 x 125
Fluid Outlet	M 3/8" NPS

AVAILABLE PUMP CONFIGURATION

Set-up	Suction rod	Drain rod Ø 6x8	Air motor power regulator	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
Without cup	•	•	-	•	•	-	151.758.000
Without cup	•	•	•	•	•	-	151.758.300

SEAL KITS

Description	Part number
PMP motor seal kit	144.931.091
Fluid section seal kit (PTFE)	144.931.092
Fluid section seal kit (EPDM)	144.931.095
Fluid section seal kit (FPM)	144.931.096

FITTING FOR ELECTROSTATIC INSTALLATION

Description	Part number
Adaptator F 38"NPS/M 1/2" JIC	050.123.306

ACCESSORIES

Description	Part number
Tripod for PMP 150	051.755.010
2 liters gravity cup kit with bracket	151.758.100
2 liters gravity cup kit without bracket	151.662.355
suction rod – ID15 – Drum 60L – F18x125 + Strainer	049.596.010

PMP 150 E Pump

The PMP 150E diaphragm pump is a packing free pump designed with special balls and seats to pump abrasive water-based coatings such as porcelain enamel.

- **Simple design: easy operation and maintenance**
- **Compact diaphragm technology: constant and pulse-free delivery for superior finish**
- **Designed for enamels and water-based materials**



SPECIFICATIONS

Pressure ratio	1/1
Fluid volume per cycle (cm ³)	100
Number of cycles per litre of products	10
Air consumption (m ³ /h) at 30 cycles/mn at 4 bar	1.1
Fluid Output at 30 cycles/mn (l/mn)	3
Free flow rate (L/mn)	19
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Maximum Fluid Temperature (°C)	50
Sound level (dBA)	<70
Weight (kg) - bare pump	5
Diaphragm material	Polyurethane
Wetted parts	Polypropylene, PTFE, polyurethane
Height (cm)	22
Width (cm)	20
Depth (cm)	15

FITTINGS

Air Inlet	F 3/8" BSP
Fluid Inlet	F 3/8" BSP
Fluid Outlet	F 3/8" BSP

AVAILABLE PUMP CONFIGURATION

Set-up	Suction rod	Drain rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
PMP150 E Pump bare	-	-	-	-	-	144.932.000

OPTIONS

Description	Part number
Motor air supply kit	151.753.050

SEAL KITS

Description	Part number
PMP motor seal kit	144.931.091
Fluid section seal kit (PTFE)	144.931.092

ACCESSORIES

Description	Part number
Tripod for PMP 150	051.755.010
2 liters gravity cup kit with bracket	151.758.100
2 liters gravity cup kit without bracket	151.662.355
Single Post Cart	051.730.110
Complete wall mounting bracket	051.751.030

PMP 150 transfer pump

The PMP-150 diaphragm pump is designed for fluid transfer applications.



- **Simple design: easy operation and maintenance**
- **Compact diaphragm technology: constant and pulse-free delivery for superior finish**
- **Dedicated to fluid transfer operations: no extra component, no extra cost**



SPECIFICATIONS

Pressure ratio	1/1
Fluid volume per cycle (cm ³)	100
Number of cycles per litre of products	10
Air consumption (m ³ /h) at 30 cycles/mn at 4 bar	1.1
Fluid Output at 30 cycles/mn (l/mn)	3
Free flow rate (L/mn)	19
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Maximum Fluid Temperature (°C)	50
Sound level (dBA)	<70
Weight (kg) - bare pump	7.4
Wetted parts	PTFE, Polypropylene, Stainless steel
Height (cm)	22
Width (cm)	20
Depth (cm)	15

FITTINGS

Air inlet (valve)	F 3/8" BSP
Fluid Inlet	F 3/4" NPS
Fluid Outlet	F 3/8" BSP

AVAILABLE PUMP CONFIGURATIONS

Set-up	Air motor power regulator	Air regulator Fluid pressure	Fluid pressure regulator	Suction rod	Drain rod	Pump output filter	Part number
PMP 150 Transfer pump bare	•	-	-	-	-	-	151.752.500

OPTION

Description	Part number
Motor air supply kit	151.753.050

SEAL KITS

Description	Part number
PMP motor seal kit	144.931.091
Fluid section seal kit (PTFE)	144.931.092

01D140 / 01D140E



ULTIMATE HIGH PERFORMANCE AND COMPACT DESIGN DIAPHRAGM PUMP!

The 01D140 double diaphragm pump is designed for fluid transfer and small circulating systems with 1:1 ratio. This pump will deliver high performance and long-term reliability. For waterborne abrasive product applications such as porcelain and ceramic, the 01D140E is designed with specific EPDM diaphragms.

- Perfect for frequent color changes
- Reliable and durable
- Low cost of ownership



SPECIFICATIONS

Pressure ratio	1:1
Fluid volume per cycle (cm ³)	140
Number of cycles per liter of product	7
Air consumption (m ³ /h) at 20 cycles/min at 6 bar	0.7
Free flow rate (L/mn)	60
Maximum air inlet pressure (bar)	8
Maximum fluid temperature (°C)	+65 °C
Maximum fluid viscosity (cps)	15000
Sound level (dBA)	< 68
Weight (kg) – bare pump	6.2
Wetted parts	Stainless steel, PTFE diaphragm (standard application), EPDM diaphragm (abrasive application)
Height (cm)	17.4
Width (cm)	23.2
Depth (cm)	13
ATEX	II 2 G Ex h IIB T6-T4 Gb X

FITTINGS

Air inlet	Plug connector ø8 mm
Fluid inlet/Outlet	F 3/4" G

AVAILABLE PUMP CONFIGURATION

Set-up	Part Number
01D140 Bare	144.907.010
01D140E Bare	144.907.015

SPARE PARTS KITS

Description	Part Number
Diaphragm kit 01D140	144.907.011
Diaphragm kit 01D140E	144.907.016
Seals and Springs kit 01D140	144.907.013
Pneumatic seals kit 01D140	144.907.018

ACCESSORIES

Description	Part Number
Suction Rod - ID 23 - Drum 60l - F26x125	149.596.150
Fitting M3/4 M26x125 SST	050.102.445
Bracket for D140 pumps	144.907.060

04D140



The 04D140 double diaphragm pump is designed for low-pressure circulating systems with a ratio of 3.5:1. This is the perfect solution for recirculating systems up to 50 meters.

- Perfect for frequent color changes
- Reliable and durable
- Low cost of ownership



SPECIFICATIONS

Pressure ratio	3.5:1
Fluid volume per cycle (cm ³)	140
Number of cycles per liter of product	7
Air consumption (m ³ /h) at 20 cycles/min at 6 bar	1.9
Free flow rate (L/mn)	50
Maximum air inlet pressure (bar)	6
Maximum fluid temperature (°C)	+65 °C
Maximum fluid viscosity (cps)	15000
Sound level (dBA)	< 70
Weight (kg) – bare pump	15
Wetted parts	PTFE, Stainless steel
Height (cm)	25.1
Width (cm)	23.2
Depth (cm)	26.1
ATEX	II 2 D Ex h IIC 85-150°C Db X

FITTINGS

Air inlet	F 1/2" G
Fluid inlet/Outlet	F 3/4" BSP



AVAILABLE PUMP CONFIGURATION

Set-up	Part Number
04D140 Bare	144.907.020

SPARE PARTS KITS

Description	Part Number
Diaphragm kit 04D140	144.907.021
Seals and Springs kit 04D140	144.907.023
Pneumatic seals kit 04D140	144.907.028

ACCESSORIES

Description	Part Number
Suction Rod - ID 23 - Drum 60l - F26x125	149.596.150
Suction Rod - ID 25 - Drum 200l - F26x125	049.596.160
Fitting M3/4 M26x125 SST	050.102.445
Bracket for D140 pumps	144.907.060

02C85 Airspray paint pump



The airspray 02C85 piston pump is designed for use with a single or multiple gun system spraying medium viscosity coatings. It can also be used on a heated circulation system.

- **Compact Design:** easy to integrate
- **Simplified Maintenance and servicing**
- **Reinforced reliability:** GT seals



FITTINGS

Air inlet (valve)	F 3/8" BSP
Air outlet (atomization air)	M 1/4" NPS
Fluid Inlet	M 18x125
Fluid Outlet	M 3/8" NPS

SPECIFICATIONS

Pressure ratio	1.8/1
Fluid volume per cycle (cm ³)	85
Number of cycles per litre of products	12
Air consumption (m ³ /h) at 30 cycles/mn at 4 bar	2.1
Fluid Output at 30 cycles/mn (l/mn)	2.6
Free flow rate (L/mn)	5.1
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	10
Maximum Fluid Temperature (°C)	60
Sound level (dBA)	81
Sealing Packings	Upper sealing
	GT cartridge with polyethylene packing
	Lower sealing
	Acetal resin seal
Weight (kg) - bare pump	5
Wetted parts	Aluminum, stainless steel
Height (cm)	41
Width (cm) - 2 regulators	28
Depth (cm)	17

AVAILABLE PUMP CONFIGURATIONS

Set-up	Additional regulator	Atomization air regulator	Air regulator Fluid pressure	Suction rod	Drain rod	Pump output filter	Part number
Bare pump, standard	-	-	-	-	-	-	144.941.000
Wall-mounted, standard,	-	•	•	•	-	-	151.760.200
Bare, stainless steel	-	-	-	-	-	-	144.940.000
Wall-mounted, stainless steel	-	•	•	•	-	-	151.761.200
Wall-mounted, stainless steel with 2 air regulators and 1 fluid regulator	•	•	•	•	-	-	151.761.400

KITS

Description	Part number
Seal kit for C85 fluid section	144.941.490
Repair kit for C85 fluid section	144.941.495
Repair kit for 340-2 air motor	144.850.150

FITTING FOR ELECTROSTATIC INSTALLATION

Description	Part number
Adaptator F 38"NPS/M 1/2" JIC	050.123.306

ACCESSORIES

Description	Part number
Single Post Cart	051.730.110
suction rod – ID15 – Drum 60L – F18x125 + Strainer	049.596.010

04C240 Airspray paint pump



For medium viscosity products with 1 or several guns. For circulating and automatic machines.

- **Stainless steel construction**
- **Designed for medium viscosity materials**
- **Extended lifetime**



SPECIFICATIONS

Pressure ratio	4/1
Fluid volume per cycle (cm ³)	240
Number of cycles per litre of products	4
Fluid Output at 30 cycles/mn (l/mn)	7.2
Air Consumption @ 30 CPM at 5 bar (m3/h)	10.3
Free flow rate (L/mn)	14.4
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	24
Maximum Fluid Temperature (°C)	60
Sound level (dBA)	80
Sealing Packings	Upper sealing: PTFE G + Polyfluid Lower sealing: PeHD
Weight (kg) - wall-mounted	27
Wetted parts	Stainless steel
Height (cm)	83
Width (cm)	40
Depth (cm)	21

FITTINGS

Air Inlet	F 3/4" BSP
Fluid Inlet	M 26x125
Fluid Outlet	M 1/2" JIC

AVAILABLE PUMP CONFIGURATIONS

Set-up	Suction rod	Drain rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
04C240 Bare	-	-	-	-	-	151.792.000
Wall-mounted	-	-	-	•	-	151.792.100
Wall-mounted	•	•	-	•	•	151.792.200
Cart-mounted	•	•	-	•	•	151.792.400

KITS

Description	Part number
Seal kit for C240 fluid section	144.970.090
Repair kit for C240 fluid section	144.970.095
Seal kit for 500-4 air motor	146.260.990
Repair kit for 500-4 air motor	146.260.995

ACCESSORIES

Description	Part number
trolley two arms	051.221.000
Mounting Plate - Bracket with straps	056.100.199
Suction rod - ID 25 - Drum 60l - F26x125	149.596.150
Suction rod - ID 25 - Drum 200l - F26x125	149.596.160
Flushing rod - ID 16 - Drum 60l - F18x125	049.596.000

08C240 Airspray paint pump

For large production.

The Turbo air motor is recommended for continued use.

- Stainless steel construction
- Designed for medium viscosity materials
- Extended lifetime



FITTINGS

Air inlet (valve air equipment)	F 3/4 BSP
Fluid Inlet	M 26 x 125
Fluid output (filter)	M 1/2 JIC

SPECIFICATIONS

Pressure ratio	8/1
Fluid volume per cycle (cm ³)	240
Number of cycles per litre of products	4
Fluid Output at 30 cycles/mn (l/mn)	7.20
Free flow rate (L/mn)	14.4
Air consumption @ 30 CPM at 5 bar (m3/h)	20.4
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	48
Maximum Fluid Temperature (°C)	60
Balanced acoustic pressure (dBA)	76
Sealing Packings Upper sealing	PTFE G + Polyfluid
Lower sealing	PEHD
Weight (kg) - wall-mounted	27
Wetted parts	Stainless steel
Height (cm)	86.4
Width (cm)	35.6
Depth (cm)	25.4

AVAILABLE PUMP CONFIGURATIONS

Set-up	Suction rod (Ø 25)	Drain rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
08C240 Bare	-	-	-	-	-	151.791.000
Wall mounted	-	-	•	•	-	151.791.100
Wall mounted	•	•	•	•	•	151.791.200
Cart mounted	•	•	•	•	•	151.791.400
08C240 Turbo wall-mounted	-	-	•	•	-	151.798.100

KITS

Description	Part number
Seal kit for C240 fluid section	144.970.090
Repair kit for C240 fluid section	144.970.095
Seal kit for 1000-4 air motor	146.270.991
Repair kit for 1000-4 air motor	146.270.995

ACCESSORIES

Description	Part number
Trolley two arms	051.221.000
Mounting Plate - bracket with straps	056.100.199
Suction rod - ID 25 - Drum 60l - F26x125	149.596.150
Suction rod - ID 25 - Drum 200l - F26x125	149.596.160
Flushing rod - ID 16 - Drum 60l - F18x125	049.596.000
Equipped filter 3/8 o'ring seal with screen 6	155.580.300

PCS 03R440 FLOWMAX® paint pump



The 03R440 solves common issues of 24/7 paint pumps. This pump features a bellows technology and a state of the art lubricant circulating system.

They are available in wall-mounted versions fitted with GT seals (waterborne materials) or PU seals (solvent-based materials).

- **Extended lifetime**
- **Quick and simple maintenance**
- **Clean paint kitchen**



SPECIFICATIONS

Pressure ratio	3/1
Fluid volume per cycle. (cm³)	440
Number of cycles per litre of products	2.3
Fluid Output at 20 Cycles/mn (l/mn)	8.8
Free flow rate (L/mn)	26.4
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	18
Maximum Fluid Temperature (°C)	50
Sound level (dBA)	68.4
Sealing packing	Upper Lower
	GT or PU PEHD
Wetted parts	Hard chrome stainless steel, stainless steel, carbide
Weight (kg)	52.8
Height (cm)	133.3
Width (cm)	25.5
Depth (cm)	30.3

FITTINGS

Air inlet	F 3/4" BSP
Fluid inlet	F 1" NPS
Fluid outlet	M 3/4" NPS

AVAILABLE PUMP CONFIGURATIONS

Set-up	Type of seal	Drain or suction rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
Wall-mounted	GT	-	-	●	-	151.866.100
Wall-mounted	PU	-	-	●	-	151.866.300

KITS

Description	Part number
GT seal kit for F440 fluid section	144.990.090
PU seal kit for F440 fluid section	144.990.130
Maintenance kit (GT seals)	144.990.595
Maintenance kit (PU seals)	144.990.695
0.6l cup for lubrication R440 fluid section	144.990.530

LUBRICANTS

Description	Part number
Kit 3 cans (2L) kit – Lubricant T	151.260.820

04F240 FLOWMAX® paint pump

Bellow pump - Flowmax® technology - without packings for automatic machines and circulating

- **Zero maintenance: FLOWMAX® technology**
- **Designed for moisture-sensitive & abrasive materials**
- **Extended lifetime**



SPECIFICATIONS

Pressure ratio	4/1
Fluid volume per cycle (cm³)	240
Number of cycles per litre of products	4
Fluid Output at 30 Cycles/mn (l/mn)	7.2
Free flow rate (L/mn)	14.4
Air Consumption @ 30 CPM at 5 bar (m³/h)	10.3
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	24
Maximum Fluid Temperature (°C)	50
Sound level (dBA)	< 82
Sealing packing	Bellows Upper and lower
	Polyethylene GT polyethylene
Wetted parts	Stainless steel
Weight (kg)	27
Height (cm)	104
Width (cm)	40
Depth (cm)	21

FITTINGS

Air Inlet	F 3/4" BSP
Fluid Inlet	M 26 x 125
Fluid Outlet	M 3/8" NPS

AVAILABLE PUMP CONFIGURATION

Set-up	Drain rod	Suction rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
04F240 Bare	-	-	-	-	-	151.795.000
Wall-mounted	-	-	-	•	-	151.795.100
Wall-mounted	•	•	-	•	•	151.795.200
Cart-mounted	•	•	-	•	•	151.795.400

ACCESSORIES

Description	Part number
Trolley two arms	051.221.000
Mounting plate - Bracket with straps	056.100.199
Suction rod - ID 25 - Drum 60l - F26x125	149.596.150
Suction rod - ID 25 - Drum 200l - F26x125	149.596.160
Flushing rod - ID 16 - Drum 60l - F18x125	049.596.000

PCS 04F440 FLOWMAX® paint pump



High output, cartridge free bellow pump for circulating and automatic machines.
The Turbo air motor is recommended for continued use.

- **Zero maintenance: FLOWMAX® technology**
- **Designed for moisture-sensitive & abrasive materials**
- **Extended lifetime**



SPECIFICATIONS

Pressure ratio	4/1
Fluid volume per cycle (cm ³)	440
Number of cycles per litre of products	2.3
Fluid Output at 20 Cycles/mn (l/mn)	8.8
Free flow rate (L/mn)	26.4
Air Consumption @ 20 CPM at 5 bar (m ³ /h)	12.7
Maximum fluid pressure (bar)	24
Maximum Fluid Temperature (°C)	50
Maximum air inlet pressure (bar)	6
Sound level (dBA)	78
Sealing packing	Bellows: Polyethylene Upper and lower: GT Polyethylene
Wetted parts	Hard chrome stainless steel, stainless steel and carbide
Weight (kg)	52
Height (cm)	110
Width (cm)	38
Depth (cm)	27.5

FITTINGS

Air Inlet	F 3/4" BSP
Fluid Inlet	F 3/4" BSP
Fluid Outlet	F 3/4" BSP

AVAILABLE PUMP CONFIGURATIONS

Set-up	Suction rod	Drain rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
Wall-mounted	-	-	-	•	-	151.862.200
04F440 Turbo wall-mounted	-	-	-	•	-	151.863.200

ACCESSORIES

Description	Part number
Trolley two reinforced arms	051.231.000
Suction rod – ID 23 – Drum 60l – F38x125	049.597.100
Equipped filter 3/4 360b o'ring seal with screen 12	155.581.400
Flushing rod – ID 16 – Drum 60l – F18x125	049.596.000

PCS 06R440 FLOWMAX® paint pump



The 06R440 solves common issues of 24/7 paint pumps. This pump features a bellow technology and a state of the art lubricant circulating system. They are available in wall-mounted versions fitted with GT seals (waterborne materials) or PU seals (solvent-based materials).

- Extended lifetime
- Quick and simple maintenance
- Clean paint kitchen



SPECIFICATIONS

Pressure ratio	6/1
Fluid volume per cycle (cm ³)	440
Number of cycles per litre of products	2.3
Fluid Output at 20 Cycles/mn (l/mn)	8.8
Free flow rate (L/mn)	26.4
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	36
Maximum fluid temperature (°C)	50
Sound level (dBA)	78
Sealing packings	upper lower
	Joint GT ou joint PU PEHD
wetted parts	Hard chrome stainless steel, stainless steel, carbide
Weight (kg)	55
Height (cm)	133.3
Width (cm)	26.5
Depth (cm)	32.6

FITTINGS

Air inlet	F 3/4" BSP
Fluid inlet	F 1" BSP
Fluid outlet	M 3/4" NPS

ACCESSORIES

Set-up	Type of seal	Drain or suction rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
Wall-mounted	GT	-	-	•	-	151.864.100
Wall-mounted	PU	-	-	•	-	151.864.300

KITS

Description	Part number
GT seal kit for F440 fluid section	144.990.090
PU seal kit for F440 fluid section	144.990.130
Maintenance kit (GT seals)	144.990.595
Maintenance kit (PU seals)	144.990.695
0.6l cup for lubrication R440 fluid section	144.990.530

LUBRICANTS

Description	Part number
Kit 3 cans (2L) kit – Lubricant T	151.260.820

08F240 FLOWMAX® paint pump



For large production.

The Turbo air motor is recommended for continued use.

- **Zero maintenance:** Flowmax® technology
- **Designed for moisture-sensitive & abrasive materials**
- **Extended lifetime**



SPECIFICATIONS

Pressure ratio	08/1
Fluid volume per cycle (cm ³)	240
Number of cycles per litre of products	4
Fluid Output at 30 cycles/mn (l/mn)	7.2
Free flow rate (L/mn)	14.4
Air Consumption @ 20 CPM at 5 bar (m3/h)	20.4
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	48
Maximum Fluid Temperature (°C)	50
Sound level (dBA)	76
Sealing packing	Bel lows
Upper and lower	GT Polyethylene
Weight (kg) - wall-mounted	32
Wetted parts	Stainless steel
Height (cm)	105
Width (cm)	40
Depth (cm)	27

FITTINGS

Air inlet (valve air equipment)	F 3/4 BSP
Fluid Inlet	M 26 x 125
Fluid output (filter)	M 1/2 JIC

AVAILABLE PUMP CONFIGURATIONS

Set-up	Suction rod (Ø 25)	Drain rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
08F240 Bare	-	-	-	-	-	151.794.000
Wall mounted	-	-	•	•	-	151.794.100
Wall mounted	•	•	•	•	•	151.794.200
Cart mounted	•	•	•	•	•	151.794.400
08F240 Turbo wall-mounted	-	-	•	•	-	151.799.100
08F240 Turbo wall-mounted	•	•	•	•	•	151.799.200

KITS

Description	Part number
Seal kit for F240 fluid section	144.970.490
Repair kit for F240 fluid section	144.970.495
Seal kit for 1000-4 air motor	146.270.991
Repair kit for 1000-4 air motor	146.270.995

ACCESSORIES

Description	Part number
Trolley two arms	051.221.000
Mounting plate - Bracket with straps	056.100.199
Suction rod - ID 25 - Drum 60l - F26x125	149.596.150
Suction rod - ID 25 - Drum 200l - F26x125	149.596.160
Flushing rod - ID 16 - Drum 60l - F18x125	049.596.000
Equipped filter 3/8 o'ring seal w.Screen 6	155.580.300

PCS 08F440 FLOWMAX® paint pump



High output, cartridge free bellows pump for circulating and automatic machines.

- **Zero maintenance: FLOWMAX® technology**
- **Designed for moisture-sensitive & abrasive materials**
- **Extended lifetime**



FITTINGS

Air Inlet	F 3/4" BSP
Fluid Inlet	F 3/4" BSP
Fluid Outlet	F 3/4" BSP

SPECIFICATIONS

Pressure ratio	8/1
Fluid volume per cycle (cm³)	440
Number of cycles per litre of products	2.3
Fluid Output at 20 Cycles/mn (l/mn)	8.8
Free flow rate (L/mn)	26.4
Air Consumption @ 20 CPM at 5 bar (m3/h)	25.3
Maximum fluid pressure (bar)	48
Maximum Fluid Temperature (°C)	50
Maximum air inlet pressure (bar)	6
Sound level (dBA)	76
Sealing packing	Bellows
	Upper and lower
	Polyethylene
	GT polyethylene
Wetted parts	Stainless steel, hard-chrome
	stainless steel, carbide
Weight (kg)	54
Height (cm)	110
Width (cm)	40
Depth (cm)	27

AVAILABLE PUMP CONFIGURATIONS

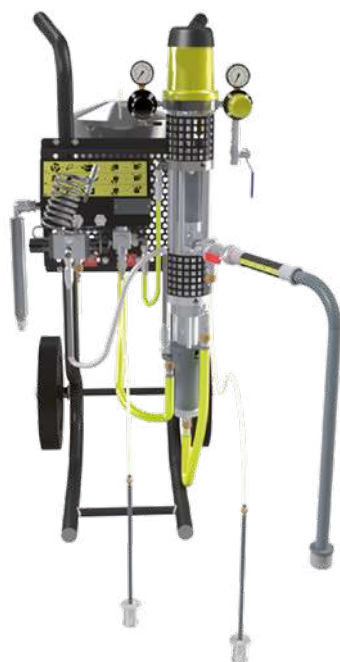
Set-up	Suction rod	Drain rod	Air regulator Fluid pressure	Pump output filter	Part number
08F440 Turbo wall mounted	-	-	•	-	151.861.200

ACCESSORIES

Description	Part number
Trolley two reinforced arms	051.231.000
Pump bracket	051.341.206
Suction rod – ID 23 – Drum 60l – F38x125	049.597.100
Equipped filter 3/4 360b o'ring seal with screen 12	155.581.400
Flushing rod – ID 16 – Drum 60l – F18x125	049.596.000

Mechanical & electronic dosing

PU 2125 F pump



The Flowmax® technology, a Sames Kremlin patented SuperLife™ bellow design, ensures a perfect mixing accuracy thanks to the total sealing without packings.

Fixed ratio : the economical and easy solution while benefitting from the HVLP, LVLP and CONV spraying.

PU 2125 F are tested and comes complete ready for use.

- **User friendly**
- **Material mixing quality**
- **Security of application**



www



FEATURES

BENEFITS

Sealing done by a FLOWMAX® bellow on the catalyst side

High reliability
No more lubricant cups
Leak free
Total sealing between pump and its environment, ideal to work with moisture-sensitive catalysts
Ideal for UV and pre-catalyzed materials

Comes with mixer, mix manifold, air feeding assembly, suction rod for base and flushing solvent, 6L catalyst gravity tank

Ready to use pump

Semi-automatic manifold with synoptic

Safe operation
User-friendly

Catalyst re-circulation

Quick color change and flushing without catalyst loss

Stainless steel fluid sections (base and catalyst) - in standard

Chemical compatibility w/o any risk of corrosion with water-based materials

Cart-mounted pump

Easy positioning in the working area (various working areas)

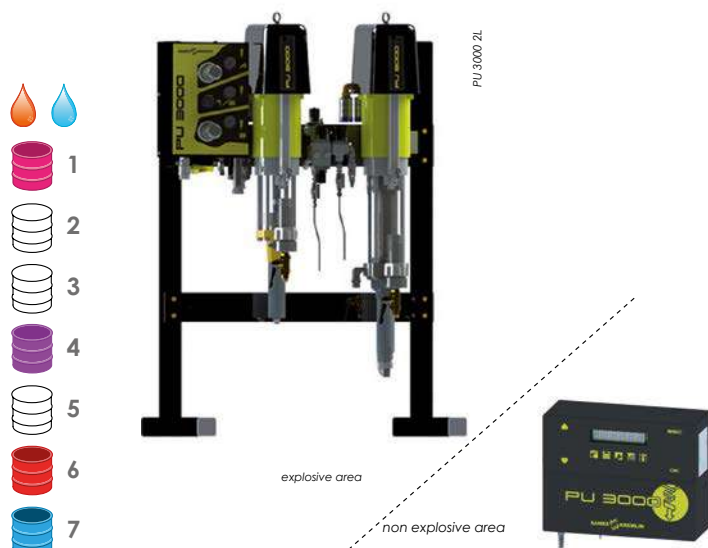
SPECIFICATIONS

Mixing ratio (upon version)	1/1 - 2/1 - 3/1 - 4/1 - 5/1
Pressure ratio	0.9 to 1.6/1
Max Fluid viscosity in CA 4 (s)	180 s
Maximum air inlet pressure (bar)	6
Balanced acoustic pressure (dBA)	80
Weight (kg)	50
Wetted parts	Stainless steel, polyethylene, treated steel Catalyst fluid section : 304 stainless steel Bellow : PTFE

DOSING RATIO

Description	Volumic dosing ratio	Fluid Output at 20 Cycles/mn (l/mn)	Pressure ratio	Fluid pressure (upon air motor pressure)		Part Number
				4 bar	6 bar	
PU 2125 F pump cart-mounted 1/1	1/1	3.5	0.9/1	3.6	5.4	151.586.100
PU 2125 F pump cart-mounted 2/1	2/1	2.6	1.2/1	4.8	7.2	151.586.110
PU 2125 F pump cart-mounted 3/1	3/1	2.4	1.4/1	5.6	8.4	151.586.120
PU 2125 F pump cart-mounted 4/1	4/1	2.2	1.5/1	6	9	151.586.130
PU 2125 F pump cart-mounted 5/1	5/1	2.1	1.6/1	6.4	9.6	151.586.140

PU 3000 2L



READY TO USE INNOVATIVE AND SIMPLE MIXING AND DOSING SOLUTION

The PU3000 Airspray combines electronic control and mechanical dosing & mixing and includes pumping, metering & electronic functions. The user-friendly control box allows the operator to intuitively learn how to operate the machine.

- User friendly
- Material mixing quality
- Security of application



FEATURES

BENEFITS

Plug & Spray	Quick start-up
Sames Kremlin patent: Free Pulse Electronic Control (FPE)	Constant fluid flowrate
Innovative control system of pump change-over	Unsurpassed +/- 1 % mixing accuracy and +/- 1 % repeatability
Direct injection in the high performance static mixer	Perfect mixing
Recording of fluid consumptions and VOC	Fluid and solvent consumptions stored in memory
Possibility to print records	
Automatic component management : base, catalyst and solvent	User friendly
Automatic flushing and material generation	User-friendly and easy programming for the operator
User-friendly control panel	
Preventive maintenance alarm	Safe operation
Continuous ratio checking and alarm	
Low level drum alarm	
Ratio check kit in standard with 2 liters test tube	Visual control of mixing accuracy
Filter and drain assembly in standard	No product loss
Sealing done by a FLOWMAX® bellow on the catalyst side	High reliability
	Total sealing between pump and its environment, ideal to work with moisture-sensitive catalysts
Wide range of ratio from 5 to 160%	Suitable for use on a wide range of markets
Suitable for HVLP / LVLP / CONV spraying technologies	
Very low flow rate from 10cc	

SPECIFICATIONS

Electrical Power	115/230V - 75W
Maximum air inlet pressure (bar)	6
Fluid viscosity (cps)	30 - 8000 cps
Mixing accuracy (%)	+/- 1 %
Mixed fluid output (cc/min)	Up to 2000
Mixing ratio	1/1 - 20/1 (100% - 5%)
Wetted parts	Stainless Steel and PEHD

FITTINGS

Air Inlet	F 3/4" BSP
Fluid Outlet	F 3/4" JIC

AVAILABLE CONFIGURATIONS

Description	Pressure ratio	Air motor type	Maximum fluid pressure (bar)	Number of base	number of catalyst	Part number
PU 3000 2L - Airspray versions	1/1	1500	0/6 or 0/40	1	1	155.680.140

OPTION

Description	Part number
Spray booth glass mounting kit	155.660.340

FLUSHING PUMP

Description	Suction rod	Purge rod	Air regulator fluid pressure	Filter	Part number
02-C85 flushing pump - PU 3000	● (Ø 16)	-	-	-	155.680.170

CYCLOMIX™ Micro and Micro+ PH



Cyclomix Micro allows the user to dose, mix and continuously deliver two-component paints and adhesives. The programming is user-friendly and quick, with data in-putting magnetic signal. Flushing and maintenance are very simple.

- Fresh material on demand
- Elimination of manual mixing errors
- Significant material saving



FEATURES	BENEFITS
Automatic component management : base, catalyst and solvent	Dosing +/- 1 % and repeatability +/- 0.5 %
Automatic flushing and material generation	Quick start-up. Minimal material and solvent wastage.
Adjustable flushing volume Several flushing sequence available : only Base side; Base side then Catalyst ; Catalyst side then Base side	Solvent savings and environmental protection
Continuous ratio checking and alarm	The paint applied on parts always conforms to specifications
User-friendly control panel	User-friendly and easy programming for the operator
Stainless steel design	To handle a wide range of materials
Recording of fluid consumptions and VOC with the possibility to print records (with RS 232 option)	Fluid and solvent consumptions stored in memory
Possibility to monitor the Cyclomix™ Micro from the spray booth (with the glass kit option)	Ergonomy of the working station
Design of the mixing plate	Easy maintenance and spare parts standardization
PH version (stainless steel 316L)	Compatible with acid catalyst

SPECIFICATIONS

Electrical Power	115 / 230V - 75W
Trigger air pressure (bar mini)	4
Product pressure (bar)	2 - 175
Weight (kg)	25
Wetted parts	Stainless steel and PEHD 316L stainless steel on PH version catalyst side
Mixing ratio	0,6/1 to 20/1 (160% to 5%)
Mixing accuracy (%)	1%
Maximum number of gun to be fitted	1
Mixed fluid output (cc/min)	100 - 2000
Fluid viscosity (cps)	30 - 5000
height (cm)	17.3 (command cabinet) - 40 (dosing unit)
Width (cm)	36.6 (command cabinet) - 40.7 (dosing unit)
Depth (cm)	11.1 (command cabinet) - 30 (dosing unit)

FITTINGS

Electrical supply: bornier and stuffing box	
Air supply	F 1/4" BSP
Air outlet	F 1/4" BSP
Fluid supply	M 1/2" JIC
Fluid outlet	M 1/2" JIC

AVAILABLE CONFIGURATIONS

Description	Catalyst fluid passage flushing	Number of bases	Number of catalysts	Part number
CYCLOMIX™ Micro	-	1	1	155.660.900
CYCLOMIX™ Micro	-	3	1	155.660.930
CYCLOMIX™ Micro+	•	1	1	155.660.911
CYCLOMIX™ Micro+	•	3	1	155.660.933
CYCLOMIX™ Micro+ PH (without mixer - see options)	•	1	1	155.660.951
CYCLOMIX™ Micro+ PH	•	3	1	155.660.953

OPTIONS

Description	Part number
Mixing assembly for Cyclomix® Micro+ PH	155.660.955
RS 232 connection kit for printer	155.660.935
Spray booth glass mounting kit	155.660.340
5m extension cable between control cabinet and mixing panel	901.250.216

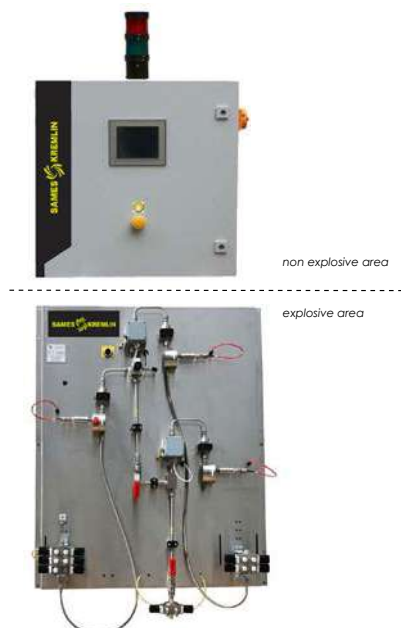
CYCLOMIX™ Multi and Multi PH

Cyclomix multi allows the user to dose, mix and continuously deliver two-component paints and adhesives. Cyclomix Multi can handle up to seven different bases and three catalysts.

- Elimination of manual mixing errors
- Material savings guaranteed
- Always fresh material on demand



Supplied without pumps or guns to be ordered separately
Designed to supply one gun only



FEATURES	BENEFITS
Automatic component management: base, catalyst and solvent	Dosing +/- 1% and repeatability +/- 0.5%
Automatic mix material fill	Quick start-up. Minimal material and solvent wastage.
Adaptable programming for each color	Ideal application for each color
Several flushing modes: production cycle, extended production stops, solvent-based materials	Perfect compatibility with production conditions evolutions
Fast mixing ratio accuracy	Visual control of mixing accuracy
batch mode	To easily get small quantities of mixed materials for touch-up works
Autowash system	Off-production gun automatic monitoring
Multilingual display and integrated instruction manual	User-friendly and easy programming for the operator
Stainless steel design	Compatible with water-based materials
Numerical interface	Quick link with an on-line automate
Integrated spraying air management	Comfort and safety during color and solvent fill
Pneumatic emergency flushing	Perfect flushing in case of power supply cut-off
Design of the mixing plate	Easy maintenance and spare parts standardization
Robotic interface	Connection with an on-line automate
PH version	Compatible with acid catalyst

SPECIFICATION

Electrical Power	115 / 230 V - 75 W
Trigger air pressure (bar mini)	4
Product pressure (bar)	2 - 200 bar
Weight (kg)	70
Wetted parts	Stainless steel and PeHD
Mixing ratio	0.6/1 to 20/1 (160% to 5%)
Mixing accuracy (%)	+/- 1
Maximum number of gun to be fitted	1
Mixed fluid output (cc/min)	100 - 2000
Fluid viscosity (cps)	30 - 5000
height (cm)	60 (control cabinet) - 77 (mixing unit)
Width (cm)	60 (control cabinet) - 60 (mixing unit)
Depth (cm)	40 (control cabinet) - 77 (mixing unit)

FITTINGS

Air supply	F 1/4" BSP
Air outlet	F 1/4" BSP
Fluid supply	M 1/2" JIC
Fluid outlet	F 1/4" BSP

AVAILABLE CONFIGURATIONS

Description	Number of bases	Number of catalysts	Part number
CYCLOMIX™ Multi	3	1	155.660.813
CYCLOMIX™ Multi	5	1	155.660.815
CYCLOMIX™ Multi	7	1	155.660.817
CYCLOMIX™ Multi	3	2	155.660.823
CYCLOMIX™ Multi	5	2	155.660.825
CYCLOMIX™ Multi	3	3	155.660.833
CYCLOMIX™ Multi PH	3	1	155.660.513
CYCLOMIX™ Multi PH	5	1	155.660.515
CYCLOMIX™ Multi PH	7	1	155.660.517

OPTION

Description	Part number
Autowash	155.660.300

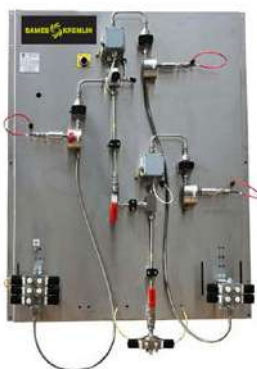
CYCLOMIX™ Expert

Cyclomix Expert is an innovative, industrial solution that is configured to meet the needs of the customer. The innovative dosing process – ultra fast injection valve – offers unequalled mixing quality and dosing accuracy.

- Capable of metering 1 component as well as mixing 2 and 3 component materials
- Flexible modular design - up to 24 programmable components
- PH version available for acid-catalyzed coatings
- Handles up to 50 recipes
- Constant flow technology



non explosive area



explosive area

FEATURES	BENEFITS
Automatic component management up to 24 components in 1, 2, 3 components and solvent	Innumerable possibilities Flexibility when changing materials
Real time display of instant real ratio and flowrate	Continuous process control
No pre-mixing chamber: optimized fluid passages w/o retention zones	Perfect flushing Prevent fluid waste
Stainless steel design	Compatible with water-based materials
Frequency configuration before flushing at the end of potlife	Mixed material and solvent savings Safe operation
Emergency pneumatic manual flushing	Perfect flushing in case of power supply cut-off
Batch mode	To easily get small quantities of mixed materials for touch-up works
Adaptable programming for each color	Ideal application for each color
3 data access level upon each operator	Safety use
Assisted data and tolerance product manufacturer specification entry	Quick and easy data entry eliminating any errors
Color man/machine interface	User friendly
Standard monitoring of 2 guns (2 priming - 2 flushing)	Possibility to manage 2 workstations simultaneously (1 or 2 guns or both)
Ratio check	Safe operation Full operator safety
6 different flushing sequences (air-solvent es standard) Volume or time flushing Multiples solvent choice for each recipe	Solvent consumption optimization upon recipe Optimized flushing
Magnetic injection volume adjustment - electro magnetic valves	Mixing optimization upon ratios Increase of injection frequency
USB data storage Batch number management	Production Follow-up optimization
Various Product mesurement technology: mass or gear	Handles a large range of materials

SPECIFICATIONS

Voltage (V)	115 - 230
Number of fluid inlets	24
Trigger air pressure (bar mini)	4
Operating pressure (bar)	5 - 200
Mixing ratio	0.6/1 to 30/1
Mixing accuracy (%)	+/- 1 %
Mixed fluid output (cc/min)	50 - 6000
Fluid viscosity (cps)	30 - 5000
Wetted parts	Stainless steel and PeHD (option 316L)
Width (cm)	100 (3K) - 89 (2K)
Height (cm)	119 (3K) - 91 (2K)
Weight (kg)	48 (2K) - 68 (3K)

CONTROL BOX CHARACTERISTICS

Width (cm)	60 (control cabinet) – 89 (mixing unit 2K)
Height (cm)	60 (control cabinet) – 91 (mixing unit 2K)
Depth (cm)	40 (control cabinet) – 68 (mixing unit 2K)
Weight (kg)	25 (control cabinet) – 48 (mixing unit 2K)

CYCLOMIX™ EXPERT PART NUMBER

Description	Part number
CYCLOMIX™ Expert	Please consult us

Spray guns

Pumps

Machines & Controllers

Accessories

General informations

Fluid regulators

Regulation technology

The driven regulator technology consists in flow controlled by an air pressure regulator. The air pressure is applied on all the regulator diaphragms where a manual spring pushes on a limited surface. The high performance diaphragm delivers very high precision even at low pressures. It also brings fast response time to robotic applications.

REMOTE control

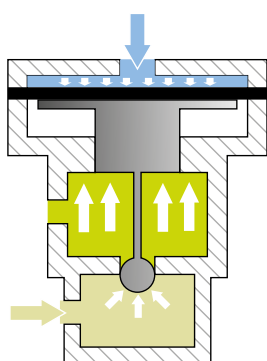
FAST response

HIGH precision

Fluid pressure regulators are used to reduce and balance the fluid pressure delivered from a pump. Regulators are designed to deliver constant fluid pressure based upon the inputs or setting of the regulator. Fluid regulators should be placed as close as possible to the point of application.

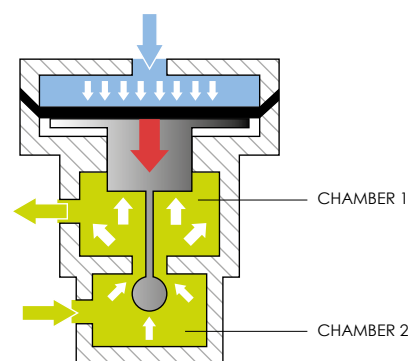
The fluid regulator closes and stops fluid flow when the downstream pressure in the hose of the regulator is greater than the set regulator pressure.

The input fluid pressure should be approximately 40% higher than the regulated pressure. For good control in a pneumatic regulated system, a stable air supply is required. Fluid supply pulsation should be minimized to help ensure ideal regulator function.



FLUID FLOW

Force equilibrium unbalanced: the air piston doesn't move; the piston ball check "Inlet Material" is closed by the fluid pressure.



PRESSURE DROP

As soon as a pressure drop occurs in the system the regulator piston moves with air pressure by opening the ball check and allowing material to flow in chamber 2.

Manual control



LOW PRESSURE REGULATOR - MANUAL CONTROL

Made entirely out of stainless steel, easy to flush.

SPECIFICATIONS

Pressure range (bar)	Inlet	40 max.
	Outlet (upon version)	0.5 - 4
Weight (kg)		1.3
Width (cm)		8.5
Height (cm)	Large passages	17
	Small passage	16.5
Wetted parts		Stainless steel, PTFE, carbide

FITTINGS

Passage size	Small	Large
Fluid inlet	F 1/4" NPS	M 1/4" BSP (w/o adaptor)
Fluid outlet	F 1/4" BSP (x2)	F 1/4" BSP (x2)

AVAILABLE REGULATOR CONFIGURATION

Description	Stainless steel ball	Manometer	Part number
Bare pressure regulator PP (small passage)	Ø 5	-	155.610.200
Pressure regulator PP (small passage)	Ø 5	●	155.610.209
Bare pressure regulator GP (large passage) - charged materials	Ø 9	-	155.610.250
Pressure regulator GP (large passage) - charged materials	Ø 9	●	155.610.259
Regulator bracket			155.610.576

Manual drive and integrated pilot



Piloted regulator manual drive and integrated pilot

LOW PRESSURE REGULATOR - MANUAL DRIVE AND INTEGRATED PILOT

The regulator with manual drive and integrated pilot is designed for an easy flushing.

SPECIFICATIONS

Pressure (bar)	Inlet	10 max
	Outlet	4 max
Width (cm)		20
Height (cm)		8.5
Wetted parts		Stainless steel, PTFE, carbide

FITTINGS

Fluid Inlet	M 1/4" BSP + (M18x125, M3/8" NPS, M3/8" BSP)
Fluid Outlet	F 1/4" BSP

AVAILABLE REGULATOR CONFIGURATION

Description	Weight (kg)	Stainless steel ball	Material	Part number
Low pressure regulator with integrated pilot	1.6	Ø 9	Stainless steel	155.610.060
Regulator bracket				016.200.010

Piloted control

LOW PRESSURE REGULATOR - PILOTED CONTROL

Available in stainless steel or non-stick treated versions, excellent flushing.
Manual control version available for a very fine regulation and even flow.



Piloted regulator

SPECIFICATIONS

Pressure range (bar)	Inlet	Small passage	40 max
		Large passage	6 max
	Outlet	0.5 -4 bar	
	Command air	6 max	
Width (cm)	8.5		
Height (cm)	7.3		
Wetted parts	Stainless steel, PTFE, carbide		

SMALL PASSAGE REGULATOR - FITTINGS

Passage size	Small	Large
Fluid inlet	F 1/4" NPS	M 1/4" BSP + (M 18x125, M 3/8" NPS, M 3/8" BSP)
Fluid inlet (Abrasive materials)	F 3/8" NPS	-
Fluid outlet	F 1/4" NPS	F 1/4" BSP
Fluid outlet (Abrasive materials)	F 3/8" NPS	-
Air inlet - Command	F 1/8" NPS	F 1/8" BSP
Air inlet - Command (Abrasive materials)	F 1/4" NPS	-

AVAILABLE REGULATOR CONFIGURATION

Description	Weight (kg)	Ball	Material	Part number
Piloted stainless steel pressure regulator	1	Ø 5 (stainless steel)	Stainless steel small passages	155.610.230
Piloted stainless steel pressure regulator for abrasive materials	2,6	Ø 5 (carbide)	Stainless steel small passages	155.610.520
Piloted stainless steel pressure regulator	1	Ø 9 (stainless steel)	Stainless steel large passages	155.610.050
Regulator bracket				155.610.576
Piloted non-stick coating pressure regulator		Ø 11	Stainless steel large passages	055.370.100
Bracket				016.200.010



Piloted regulator non-stick coating



AVAILABLE STRAINERS CONFIGURATION

Pump	Height (mm)	External diameter (mm)	Material	Filtration size		Part number
				Micron	Mesh	
PMP150 / 02.75	60	40	Polyamide	300	50	051.531.600
PDM 01.75 / 04.120 / 04.120F	40	48	Inox	1000	15	149.596.152
04.220 F	112	66	Polyamide	1000	15	149.591.400

AVAILABLE SCREENS FOR FLUID FILTER CONFIGURATIONS

Filter number	Filtration size		Nozzle size	Part number
	Micron	Mesh		
1	40	325	3	000.161.101
2	74	200	4	000.161.102
3	90	170	4	000.161.103
4	100	140	4	000.161.104
6	168	85	6	000.161.106
8	210	70	09 & 14	000.161.108
12	280	55	20	000.161.112
15	360	45	30 & 45	000.161.115
20	510	30	< 68	000.161.020
30	750	20	< 68	000.161.030

Back pressure regulator

BACK LOW PRESSURE REGULATOR

Available in stainless steel manual control version.



SPECIFICATIONS

Pressure (bar) - regulated materials	4 max
Weight (kg)	1.3
Width (cm)	8.5
Height (cm)	16.8
Wetted parts	Stainless steel, PTFE, carbide

FITTINGS

Fitting	Fluid Inlet	F 1/4" BSP
	Fluid Outlet	M 1/4" BSP + (M18x125, M3/8"NPS, M 3/8"BSP)

AVAILABLE REGULATOR CONFIGURATIONS

Description	Part number
Stainless steel Back pressure regulator	155.610.100
Options:	-
- Wall bracket	016.200.010
- Pressure gauge: stainless MF 1/4 elbow	050.470.101

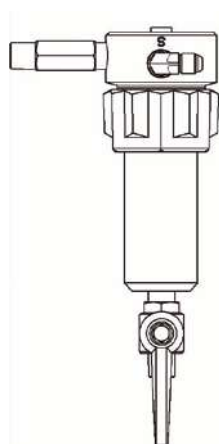
ACCESSORIES

Description	Part number
Stainless steel 1/4 nipple LG 150	050.081.701
Stainless steel 1/4 sleeve	050.470.301
Pressure gauge lateral inlet	910.011.402

FILTER

AVAILABLE INLINE FILTER CONFIGURATIONS

Description	Part number
Low pressure filter compatible with M22 and PMP150	129.020.060
Screen number 6 (x10)	151.399.902
PTFE seals (x10)	149.949.901



ACCESSORIES

Description	Part number
Stainless steel filter fitting lenght 70 mm (MM 3/8" NPT)	055.580.301
Wall-mounted bracket and screws for 3/8", 3/4" and 1" filter with 9 digits part numbers	155.190.105

AVAILABLE FILTER CONFIGURATIONS

Description	Maximum fluid pressure (bar)	Screen	Inlet	Thread Outlet	Purge	Part number
3/8" stainless steel filter-medium pressure	60	-	F 3/8" NPT (x1)	F 3/8" NPT (x2)	F 3/8" G cuve (x1)	155.580.500
Stainless steel Filter 3/8"-Low pressure		6	M 1/4" NPT	M 1/2" JIC ⁽¹⁾	M 18x125	155.580.510

(1) See adaptation fitting F1/2 JIC/M3/8 NPS reference 050.123.533

Pressure regulators

Air regulators



1/4" (with phosphor or black knob), 1/2" and 3/4" (with phosphor knob) regulators are used on the compressed air lines.

AVAILABLE PRESSURE REGULATOR CONFIGURATIONS

Description	Inlet pressure (bar)	Max output (m3/h)	Inlet	Outlet	Part number		
Phosphor knob regulator	3,5	25	F1/4"	F1/4"	116.240.500 (2)		
Black knob regulator					116.380.700 (1)		
Phosphor knob regulator	016.380.500 (2)						
Black knob regulator	116.370.700 (1)						
Equipped regulator with isolating valve and pressure gauge - Inlet F 3/8" - Outlet M 1/4"	016.370.500 (2)						
Phosphor knob regulator	5,5		F3/8"	M1/4"	116.390.500 (2)		
Black knob regulator		F1/4"	F1/4"	019.720.000			
Equipped regulator with isolating valve and pressure gauge - Inlet F 3/8" - Outlet M 1/4"	9			F1/4"	F1/4"	116.365.500 (2)	
Phosphor knob regulator		116.360.500 (2)					
Black knob regulator	4	210	F1/2"	F1/2"	016.200.000		
Bare regulator					016.280.000		
Bare regulator	9				F1/2"	F1/2"	019.780.100
Equipped regulator with pressure gauge and wall bracket							016.470.000
Red ring regulator	10		360	F3/4"	F3/4"	016.480.000	
Red ring regulator						-	-
Wall bracket	-	-	-	-	-		

DE37 Purifier-regulator

Usually fitted in the paint spray booths. Its twin-body construction ensures completely water and oil free.



Technical characteristics:

- Maximum operating air output: 37 m3/h
- Maximum operating air pressure: 10 bar
- Height: 290 mm
- Air inlet opening: F1/4"G

Standard equipment:

- One regulated pressure gauge
- One F1/4"G
- One tap valve F1/4"G
- Two air outlet taps: M 1/4" NPS

Specifications

Air output (m³/h)		37
Maximum fluid pressure (bar)		10
Height (cm)		29
Fitting	Air Inlet	F8 x 13G
Set-up		1 regulated pressure gauge 1 valve F 1/4" G 1 ball valve F 1/4" G 2 air outlet taps M 1/4" NPS

AVAILABLE DE37 CONFIGURATIONS

Description	Part number
Purifier with DE 37 regulator	015.240.000
Blue cartridge filter for water	015.230.500
Red cartridge filter for oil	015.230.200

Regulators, filters and lubricators



Regulators with pressure gauges, filters and lubricators with polycarbon reservoirs are all modular, allowing you to put together the best air treatment equipment for your needs.

- Filter with trunion deflector, transparent polycarbon reservoirs (heat resistant up to 50°C), manual bleed and a bronze filter capable of holding all particles larger than 5 microns.
- Regulator with pressure gauge: self-regulating and vibration free, pressure gauges from 0 to 12 bar/180 psi, equipped with automatic decompression system
- Lubricator with transparent polycarbon lid (heat resistant up to 50°C), flush adjustment screw; it lubricates by fine vaporisation
- Maximum operating pressure: 12 bar/180 psi

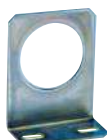
REGULATORS, FILTERS, LUBRICATORS CONFIGURATION (PART 1)

Type	Inlet diameter	Outlet diameter	Output at 9 bar (l/mn)	Part number
Regulator with gauge				
M 150/2	1/4"		1000	004.601.100
M 250/3	1/2"		5250	004.601.300
Filter with polycarbonate tank				
M 100/2	1/4"		1760	004.603.100
M 200/2	3/8"		7000	004.603.200
Lubricator with polycarbonate tank				
M 110/2	1/4"		2500	004.604.100
M 210/3	1/2"		5250	004.604.300

REGULATORS, FILTERS, LUBRICATORS CONFIGURATION (PART 2)

Type	Inlet diameter	Outlet diameter	Part number
Bare 3/4" regulator	3/4" G	3/4" G	91.530
Bare 3/4" regulator + filter			91.532
3/4" regulator with manometer Ø 62 mm			91.531
3/4" regulator with manometer Ø 62 mm + filter			91.533
Filter 3/4" regulator			91.534
3/4" regulator, filter, lubricator, adjusting valve on wall base	1/2" G	1/2" G	91.398
Bare 1/4" regulator	1/4" G	1/4" G	91.551
Bare 1/4" regulator + filter			91.555
1/4" regulator with manometer Ø 62 mm			91.552
1/4" regulator with manometer Ø 62 mm + filter			91.558
Bare 1/4" filter			91.553
Ø 62 mm manometer side output - 0 to 10 bar	1/8" G	-	151.080.094
Ø 62 mm manometer rear output - 0 to 10 bar		-	151.080.091
Wall bracket for 3/4" regulators	-	-	210.006
Retaining ring for regulator (mounting on control panel)	-	-	91.540
Locking mechanism for regulators	-	-	91.545
Adjusting valve with lock	-	-	91.544
Lubrication oil (2 liters)	-	-	149.990.017

Allow the easy assembly and fitting of regulators, lubricators and filters to provide the ideal system.



Description	Part number
Regulator support bracket F 171/1 for 1/8" and 1/4"	004.601.002
Regulator support bracket F 176/1 for 3/8" and 1/2"	004.601.201

PRESSURE GAUGES

Built to last in metal with glass lenses, they are completely impact and solvent resistant.



Description	Internal diameter (mm)	Pressure range (bar)	Part number
Pressure gauge - central inlet	40	0 - 6	910.011.205
		0 - 2,5	910.011.208
Pressure gauge - central inlet	50	0 - 6	910.011.403
Pressure gauge - side inlet		0 - 10	910.011.402
		0 - 4	910.011.404

Cyclix™ drum cover agitators



This elevator-agitator for 20-40 to 200 L drums features a double-effect jack for a fast lift of a stainless steel cover fitted for a quick material drum change. The cover is equipped with a motorized agitator fitted with blades for low viscosity materials and a full stainless steel rod.

The elevator is coming on a large fixing plate which makes it very stable and easy to install in paint kitchens, existing installations or an essential component of new installations.

- **Constant quality of mixed materials**
- **Stainless steel wetted parts**
- **High ROI - no product loss**



WWW



FEATURES	BENEFITS
Stainless steel (agitator cover, suction and drain rods)	Compatibility with all materials
Adjustable suction rod height	No product loss
Suction and return tubes	Suitable for recirculating
Double effect jack with 3 positions command lever: up, stop, down	Important flexibility
The agitator cannot work during elevator movements	Security

SPECIFICATIONS

AGITATOR NAME	CYCLIX™ 20-40	CYCLIX™ 200
Capacity (L)	20 - 40	200
Motor type	Pneumatic	Pneumatic
Reductor type	-	Gear train
Rotation speed (rpm)	60 - 300	5 - 90
Motor torque (Nm)	2.2	34

CONFIGURATION OF CYCLIX™ FOR 20 - 40 L DRUMS

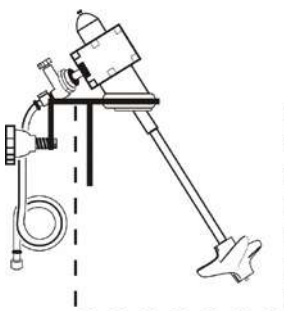
Description	Elevator height (mm)	Agitator rod length (mm)	Paddle diameter (mm)	Cover diameter (mm)	Part number
Elevator for 20 -40 l drums	1024 (min) - 1500 (max)	-	-	-	151.081.000
Agitator for 20 -40 l drums	-	400	134	-	154.261.700
Cover for 20 -40 l drums	-	-	-	400	154.261.600
Suction/exhaust kit	-	-	-	-	154.261.800

CONFIGURATION OF CYCLIX™ FOR 200 L DRUMS

Description	Elevator height (mm)	Agitator rod length (mm)	Paddle diameter (mm)	Cover diameter (mm)	Part number
Elevator for 200 l drums	1510 (mini) - 2410 (maxi)	-	-	-	151.091.000
Agitator for 200 l drums	-	800	370	-	154.261.300
Cover for 200 l drums	-	-	-	635	154.261.200
Suction/exhaust kit	-	-	-	-	154.261.400

RECOMMENDED ACCESSORIES

Description	Part number
1/4" air lubricator + support	154.261.997
Exhaust assembly with oil recovery (length 1 m)	154.261.996
Air feeding kit	154.261.930
Drum roller unit for 200 litres drum	151.098.100
Slotted paddle for thick materials	154.261.952
HP 150 2 liters lubricant can	149.990.017



AGITATORS FOR EDGE PAIL MOUNTING

Agitator for barrel edge mounting.
Minimum barrel height of 300 mm.

Description	Part number
Bare agitator	051.332.610
Agitator with 25 cm hose	051.332.600
Agitator with 5 m hose	049.220.710
System for barrel mounting	049.220.720



AGITATORS ON STAINLESS STEEL COVER

Agitator:
For drums diameter between 295 and 325 mm.
Minimum drum height of 390 mm.

Description	Part number
Agitator for Ø325 cover	903.290.101

STRAINER FOR CYCLIX™ SUCTION RODS

Description	Part number
Strainer for cyclix™ suction rods	154.261.940

Trolley

Compatibility of trolleys



	Single post trolley	Double post trolley	Reinforced double post trolley
PART NUMBER	051.730.110	051.221.000	051.231.000
Compatible with			
PMP150	•		
PDM 01.175	•		
02C85	•		
04C240		•	
08C240		•	
04F240		•	
04F440			•
08F240		•	
08F440			•

Description	Part number
(1) Drum table alone	151.240.009



Description	Part number
Perforated rack with brackets	056.100.199



Magma 500



Material fluid heater is an auxiliary device used for material preparation and air heating. Higher layer thicknesses can be achieved by heating the material, as well as shorter drying times and higher finishing quality.

- High pressure for heavy duty applications
- Excellent performances even without Fluid recirculation
- Stainless steel design and Explosion proof, compatible with most coatings



WARM UP PRODUCTIVITY

FEATURES	BENEFITS
Standard Stainless steel design	Compatible with water-based materials
Thermometer integrated into the command box	Direct information on the desire temperature
Flexible positioning of the heat exchanger connections	Easy implementation
The highest fluid passage volume of the market	Insure outstanding performances even when using as one pass (without recirculation)
Possibility of heating atomizing air	Increase finishing quality and regrease drying times
ATEX Compliant	Can be used in hazardous atmosphere
Weather resistant	Always efficient even in high humidity environments

SPECIFICATIONS

HEATER NAME	MAGMA 500 ID9			MAGMA 500 ID14			
Maximum fluid pressure	500 bar (7 250 psi)						
Fluid passage volume	0.225 L (0.0594 gal)			0.390 L (0.130 gal)			
Internal diameter	9 mm (0.35")			14 mm (0.55")			
Fluid passage length	354 cm (140")			253 cm (100")			
Voltage range (V)	115	230	400	115	230	400	480
Maximum fluid temperature	85 °C (185 °F)						
Temperature classification	T4						
Wetted parts	Stainless Steel						
Weight	17,6 kg (38.8 lbs)						
Explosion Proof	II 2G Ex db IIB T4 Gb						
Dimensions (H x L x l)	405 x 220 x 180 mm (16 x 8.7 x 7.1 in)						

CONFIGURATION OF THE MAGMA 500 MATERIAL FLUID HEATER

Description	Fitting IN/OUT	Internal Fluid diameter (mm)	Volt max (V)	Power (W)	Material	Pmax pressure (bar)	Delta T°C	Part number
ID14 HV 230V 3500W M3/4 JIC	M 3/4 JIC	1,4	230	3500	SST	500	15-90	156.160.010
ID14 HV 115V 1800W M3/4 JIC	M 3/4 JIC	1,4	115	1800	SST	500	15-90	156.160.020
ID 14 HV 400V 3800W M3/4 JIC	M 3/4 JIC	1,4	400	3800	SST	500	15-90	156.160.030
ID9 230V 3500W M1/2 JIC	M 1/2 JIC	0,9	230	3500	SST	500	15-90	156.160.040
ID9 115V 1800W M1/2 JIC	M 1/2 JIC	0,9	115	1800	SST	500	15-90	156.160.050
ID9 400V 3800W M1/2 JIC	M 1/2 JIC	0,9	400	3800	SST	500	15-90	156.160.060
ID14 HV 44 0V 3500W M3/4 JIC	M 3/4 JIC	1,4	440	3500	SST	500	15-90	156.160.070

ACCESSORIES

Description	Fits to ID	Part number
TEMPERATURE INDICATOR FOR MAGMA 500 ID9	9 mm (0.35")	156.160.110
TEMPERATURE INDICATOR FOR MAGMA 500 ID14 HV	14 mm (0.55")	156.160.111
KIT FOR HEATING ATOMIZING AIR MAGMA 500	9 mm (0.35") & 14 mm (0.55")	156.160.114

Circulation accessories

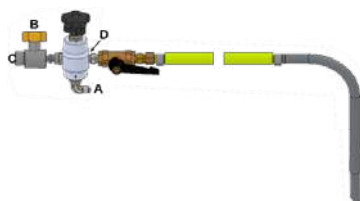


Y- FITTING - STAINLESS STEEL

Allowing paint circulation on the gun while maintaining ease of use. Remote set-up possible using an additional hose.

Y-FITTING PART NUMBERS

Description	Fittings on gun	Hoses thread	Part number
Stainless steel Y-fitting - for air spray guns	F 3/8" NPS	M 1/4" NPS	129.029.915



FLUID LINE - CIRCULATION VALVE

A circulation valve allows paint recirculation at the pump bottom (piston pump) and permits to set the perfect output for material circulation.

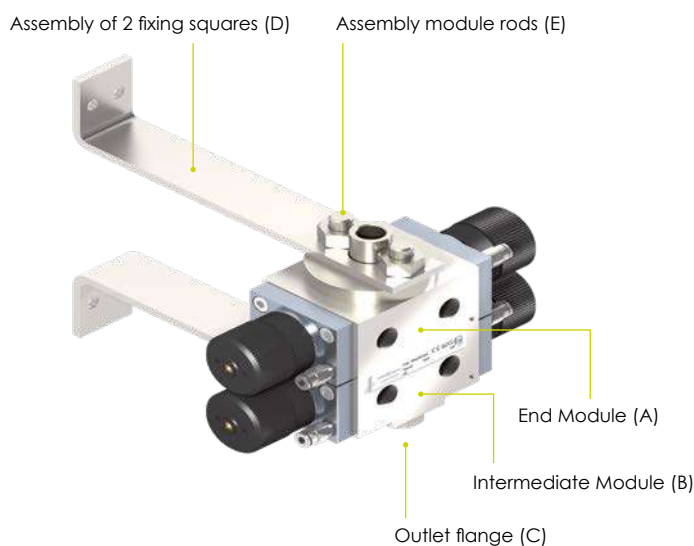
Max. fluid pressure = 240 bar

CONFIGURATION OF CIRCULATION VALVE

Version	Material	A. Inlet fitting	Outlet fitting		D. Purge	Flushing valve	Flushing rod M 18x125	Part Number
			B. Pump intake	C. Suction rod				
Bare	SST	F 1/4 NPS	F 1/4 BSP	-	F 1/8 BSP	-	-	149.220.420
Circulation kits	Carbon steel	M 1/2 JIC	F 26x125	M 26x125	-	•	•	051.314.010
		M 3/4 JIC	M 1" G	M 38x150				051.341.100
	SST	M 1/2 JIC	F 26x125	M 26x125				051.314.050
		M 3/4 JIC	M 1" G	M 38x150				051.341.100

Description	Part number
Maintenance kit for recirculation valve	049.220.450

CTM Color Change Valves



CTM are designed for a rapid color change.

- No dead zone inside CTM reducing flushing time and solvent consumption
- PTFE seals
- Design allows modular expansion
- Monostable valve normally closed
- Visual Opening detector
- Two valves per module (the solvent valve should be facing the fluid outlet)

How to build your complete assembly upon the number of colors:

NB OF MATERIAL UP TO	NUMBER OF ELEMENT TO ORDER				(E) ROD ASSEMBLY SIZE
	(A) END MODULE	(B) INTERMEDIATE MODULES	(C) OUTLET FLANGE	(D) FIXING SQUARE KITS	
2		-			FOR 1 MODULE
4		1			FOR 2 MODULES
6	1	2	1	1	FOR 3 MODULES
8		3			FOR 4 MODULES
10		4			FOR 5 MODULES

CTM VALVE SPECIFICATIONS

Description	CTM
Max pressure (bar)	8
Ø of passage (mm)	8
Trigger air	for hose 2.7 x 4
Fluid inlet	F 1/4 NPS
Fluid outlet	F 1/4 NPS

CONFIGURATION OF CTM VALVES

Description		Max. pressure (bar)	Part number
Modules	End module (inlet)	8	155.535.100
	Intermediate module		155.535.200
	Outlet flange		155.535.300
	Fixing square kit		155.535.700
Description		Nb. of materials	Part number
Rod assembly size	For 1 module (1 end + 1 flange)	2	155.535.610
	For 2 modules (1 end + 1 intermediate + 1 flange)	4	155.535.620
	For 3 modules (1 end + 2 intermediate + 1 flange)	6	155.535.630
	For 4 modules (1 end + 3 intermediate + 1 flange)	8	155.535.640
	For 5 modules (1 end + 4 intermediate + 1 flange)	10	155.535.650

Rod's



A suction rod will transfer the paint from the drum to the pump inlet
Please refer to your pump information to know which suction rod will fit
NOTA : A suction rod will include a strainer and a flushing rod not

SUCTION AND FLUSHING ROD

Hose				Tube			Strainer		Part number
Internal diameter (mm/")	Length (mm/")	Material	Thread	External diameter (mm/")	Internal diameter (mm/")	Height (mm/")	Material	Material	
6,35(1/4)	800 (31.5)	PEBD (phospho)	F 18 x 125	8 (0.31)	6 (0.24)	280 (11)	SST	SST	051.665.620
6,35(1/4)	800 (31.5)	PEBD (phospho)	F 26 x125	8 (0.31)	6 (0.24)	280 (11)	SST	SST	151.665.640
10 (3/8)	1000 (39)	PEBD (black)	F 26 x125	18 (0.7)	15 (0.6)	440 (17)	SST	SST	149.596.080
10 (3/8)	1000 (39)	PEBD (phospho)	F 18 x 125	18 (0.7)	15 (0.6)	560 (22)	SST	-	049.596.000
10 (3/8)	1000 (39)	PEBD (phospho)	F 26 x125	18 (0.7)	15 (0.6)	560 (22)	SST	SST	149.596.050
19 (3/4)	1000 (39)	PEBD (black)	F 26 x125	25 (1)	23 (0.9)	600 (23.6)	SST	SST	149.596.150
19 (3/4)	1500 (59)	PEBD (black)	F 26 x125	25 (1)	23 (0.9)	1000 (39)	SST	SST	149.596.160
19 (3/4)	1000 (39)	PEBD (black)	F 26 x125	25 (1)	23 (0.9)	560 (22)	SST	SST	149.596.150
25 (1)	1500 (59)	PEBD (black)	F 38 x 150	25 (1)	23 (0.9)	600 (23.6)	SST	SST	049.597.100
28 (1"1/10)	1000 (39)	PEBD (black)	F 1"	32 (1.26)	28 (1.1)	560 (22)	SST	SST	921.270.101
28 (1"1/10)	1000 (39)	PEBD (black)	F 1"1/4 - (1)	32 (1.26)	28 (1.1)	600 (23.6)	SST	SST	049.597.200
28 (1"1/10)	1500 (59)	PEBD (black)	F 1"1/4 - (1)	32 (1.26)	28 (1.1)	1000 (39)	SST	SST	149.597.250
-	290 (11.4)	SST	F 26x125	18 (0.7)	15 (0.6)	300 (11.8)	SST	SST	149.596.040
10 (3/8)	1000 (39)	PEBD (black)	F 18 x 125	18 (0.7)	15 (0.6)	560 (22)	SST	Polyamide	049.596.210 (1)
10 (3/8)	1000 (39)	PEBD (black)	F 18 x 125	18 (0.7)	15 (0.6)	560 (22)	SST	-	049.596.200 (1)
10 (3/8)	1000 (39)	PEBD (black)	F 18 x 125	18 (0.7)	15 (0.6)	560 (22)	SST	Polyamide	049.596.020

(1): Elbow fitting

STRAINER FOR SUCTION RODS



Pump	Height (mm)	External diameter (mm)	Material	filtration size		Part number
				Micron	MESH	
10C18	60	40	Polyamide	300	50	051.531.600
10C18	34	28	Stainless steel	1000	15	151.665.645
15C25 & 30C25 (ø16)	32,5	28	Stainless steel	1000	15	149.596.052
30C25, 15C50, 10C50, 17F60, 20C50, 20F50, 34F60, 40C50, 40F50, 08C240, 08F240, 16C240, 16F240 (ø25)	40	48	Stainless steel	1000	15	149.596.152
40C260, 40F260, 65C260, 65F260, 20.25 (OLD GENERATION)	112	66	Polyamide	1000	15	149.591.400

PRODUCT HOSES FOR SUCTION RODS

Polyethylene hose sleeve	Part number		
	ø9.5 mm	ø19 mm	ø25 mm
5 m cut	-	050.366.051	050.367.001
15 m cut	-	050.366.052	-
25 m cut	050.361.001	050.366.053	050.367.003
Grooved conical fittings	050.140.517	050.140.545	050.140.543
Nickel nut fitting	050.271.303 (1)	050.271.502 (2)	049.595.306 (3)
1 wing collar	906.311.234	906.311.207	906.311.204

(1): F18x125, (2): F26x125, (3): F38x150

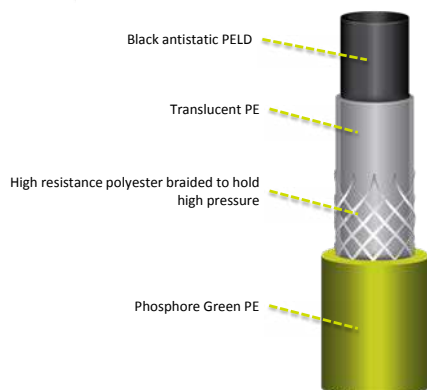
Spray guns

Pumps

Machines & Controllers

Accessories

General informations



FLUID HOSES CONFIGURATION

	Small (ID 3.2)	Medium (ID 6.5)	Large (ID 9.5)
Technical information			
Material	PE		
Color	Green		
ATEX Certification	Yes		
Internal Diameter (mm)	3,2	6,5	9,5
External Diameter (mm)	7,3	10	14,8
Weight without fitting (grams/meter)	31	44	92
Thickness (mm)	2	1,8	2,65
Flexibility Bending radius (mm)	15	25	35
Maximum operating pressure (bar)	18		
Resistivity	< 106 Ω/m : antistatic		
Operating temperature (°C)	-20 to +50		

FITTING	HOSE LENGHT (METERS)	PART NUMBERS		
1/4" NPS	0,6	050.360.105	050.362.103	-
	1,6	050.360.106	050.362.105	-
	2,5	050.360.101	050.362.106	-
	5	050.360.102	050.362.101	-
	7,5	050.360.103	050.362.104	-
	10	050.360.104	050.362.102	-
3/8" NPS	0,6	050.360.205	050.362.604	050.361.103
	1,6	050.360.206	050.362.605	-
	2,5	050.360.201	050.362.606	050.361.110
	5	050.360.202	050.362.603	050.361.105
	7,5	050.360.203	050.362.601	050.361.102
	10	050.360.204	050.362.602	050.361.106
	15	-	050.362.607	050.361.111
	20	-	050.362.608	050.361.112
NO FITTING	25	050.360.001	050.362.001	050.361.001
	152,5	050.360.002	050.362.002	050.361.006
NO FITTING + HOSE ON DRUM	175	-	-	050.361.008
	250	-	050.362.005	-
	450	050.360.003	-	-

Fluid hoses

SAMES KREMLIN's fluid hoses bring unique advantages to the end user as they are exceptionally lightweight and flexible.

- Exceptionally flexible
- The lightest hoses on the market
- Premium quality for guaranteed safety



WWW



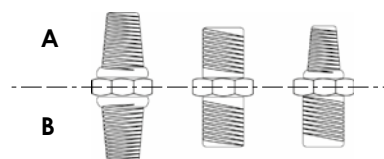
Fluid hoses are available with fittings up to 20 meters and without fittings above, so you can cut at the exact length needed and crimp by your own using spare fittings below
 SAMES KREMLIN Equipments using a 1/4" NPS fitting: S3, A35, A25
 SAMES KREMLIN Equipments using a 3/8" NPS fitting: FPro, A29, PMP150, Airspray Tanks, 02C85

SPARE FITTINGS TO CRIMP & ACCESSORIES

Designation	small (id 3.2)	medium (id 6.5)	large (id 9.5)
Complete fitting (a+b+c) to crimp 1/4" nps	050.231.710	050.231.705	-
Complete fitting (a+b+c) to crimp 3/8" nps	050.231.711	050.231.714	050.231.715
Pack of 10 spare crimp rings (c)	906.311.239	906.311.237	906.311.241
Manual crimper		906.311.202	
M Clip (pack of 5)		129.725.080	
Protective sleeve (diameter: 40mm, length: 10m)		129.270.087	



Fittings

**MALE TO MALE CONNECTION P_{MAX.} = 20 BAR**

FITTINGS AND ADAPTATOR METRIC / NPT / BSP (GAS)

		Male (B)					
Male (A)	M 14 x 125	M 18 x 125	M 26 x 125	G1/4" (8x13)	G3/8" (12x17)	G1/2" (15x21)	G3/4" (20x27)
M 14 x 125		050.102.133 050.102.142(2)					
M 18 x 125	050.102.133 050.102.142(2)	050.102.102					
G1/8" (5x10)	050.102.412						
G1/4" (8x13)	050.102.405 050.102.441(2)	050.102.408 050.102.444(2)			904.523.003		
G3/8" (12x17)	050.102.410	050.102.411 050.102.436(2)		904.523.003		904.523.006	
G1/2" (15x21)	050.102.513	050.102.406 050.102.418(2)	050.102.402 050.102.437(2)		904.523.006		904.523.012
G3/4" (20x27)		050.102.429	050.102.407 050.102.445			904.523.012	211017 (2)(1)
1/2" NPT			050.102.507				

(1): Length 850 mm, (2): Stainless steel

MALE TO MALE CONNECTION P_{MAX.} = 60 BAR

FITTINGS AND ADAPTATOR BSP (GAS) / NPS / NPT

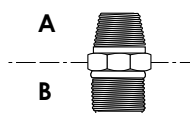
		Male (B)							
Male (A)	G1/8" (5x10)	G1/4" (8x13)	G3/8" (12x17)	G1/2" (15x21)	G3/4" (20x27)	1/4" NPT	3/8" NPT	1/4" NPS	3/8" NPS
G1/8" (5x10)		906.314.207 (2)							
G1/4" (8x13)	906.314.207(2)	050.102.213 906.314.203 (2)	906.314.204 (2)	050.102.211 050.102.647(2)				050.102.624 050.102.644 (2)	050.102.646 (2)
G3/8" (12x17)		906.314.204 (2)	050.102.214 906.314.202 (2)	906.314.205 (2)				050.102.627 050.102.647 (2)	050.102.628 050.102.648 (2)
G1/2" (15x21)		050.102.211 050.102.647 (2)	906.314.205 (2)	050.102.212				050.102.633	050.102.629 050.102.649 (2)
G3/4" (20x27)					050.102.215				050.102.654 (2)
1/4" NPT							905.083.201		
3/8" NPT						905.083.201			
1/4" NPS		050.102.624 050.102.644 (2)	050.102.627 050.102.647 (2)	050.102.633				050.102.630	050.102.632
3/8" NPS		050.102.646 (2)	050.102.628 050.102.648 (2)	050.102.629 050.102.649 (2)	050.102.654 (2)			050.102.632	050.102.631 050.102.652 (2)

(2): Stainless steel

MALE TO MALE FITTINGS AND ADAPTATORS (STAINLESS STEEL) P_{MAX.} = 250 BAR

		Male (B)	
Male (A)	1/2" JIC	3/4" JIC	
1/2" JIC	905.210.709 (3)	906.314.217	
3/4" JIC	906.314.217		
1/8" NPT	905.210.501		
1/4" NPT	905.210.502	905.210.512	
3/8" NPT	905.210.503	905.210.513	
1/2" NPT	905.210.504	905.210.514	
3/4" NPT		905.210.515	

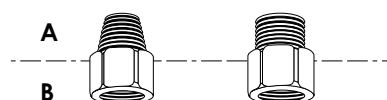
(3): up to 400 Bar; (4): Nickel Coated

**MALE TO MALE FITTINGS AND ADAPTATORS (PROTECTIVE COATED STEEL) P_{MAX.} = 360 BAR**

		Male (B)	
Male (A)	7/16" JIC	1/2" JIC	3/4" JIC
1/2" JIC		050.102.301	905.160.201
3/4" JIC		905.160.201	905.160.202 550.545 (3)
7/8" JIC	-	550.914 (3)	550.915 (3)
1/4" NPT		000.972.025	905.160.212
3/8" NPT		000.972.028 050.470.202 (4)	905.160.206 905.160.103 (4)
1/2" NPT			905.160.204
3/4" NPT			905.160.203
G1/8" co	550.920 (3)	550.548 (3)	
G1/4" co		550.542 (3)	
G3/8" co		550.549 (3)	550.679 (3)
G1/2" co			550.544 (3)
G3/4" co		550.905 (3)	

MALE TO FEMALE CONNECTION P_{MAX.} = 20 BAR

FITTINGS AND ADAPTATOR METRIC / NPS / JIC / BSP (GAS)



Fittings

		Male (B)							
Male (A)	1/2" JIC	1/4" NPS	3/8" NPS	M 14 x 125	M 18 x 125	M 26 x 125	G1/4" (8x13)	G3/8" (12x17)	G3/4" (20x27)
1/2" JIC		150.123.305 (1)	050.103.537 (1)	050.230.619	050.230.620				
1/4" NPS	050.123.304		050.103.534 (1)	050.123.535	050.123.526				
3/8" NPS	050.123.533				050.123.610				
M 14 x 125			050.103.523 (1)		050.123.109				
M 18 x 125	050.123.521			050.123.101		050.123.110			
M 26 x 125					050.123.106				
G1/4" (8x13)								904.533.003	
G3/8" (12x17)							904.513.003		
G1/2" (15x21)							904.513.005		904.533.009
G3/4" (20x27)							904.513.011	904.513.012	
G1" (26x34)									904.513.012

MALE TO FEMALE CONNECTION P_{MAX.} = 60 BAR

FITTINGS AND ADAPTATOR BSP (GAS) / NPS / JIC

1/4" NPS	050.123.304								
G1/4" (8x13)							050.123.205		

(1): Stainless steel

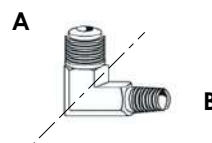
FEMALE TO FEMALE CONNECTION P_{MAX.} = 60 BAR

FITTINGS AND ADAPTATOR METRIC / BSP (GAS)

		Female (B)		
Female (A)	G1/4" (8x13)	G3/8" (12x17)	M 14 x 125	
G1/4" (8x13)	904.593.002 552.486 050.470.301 (1)	904.503.003	050.221.401	


MALE TO MALE ELBOW FITTINGS AND ADAPTATORS (PROTECTIVE COATED STEEL) P_{MAX.} = 400 BAR

		Male (B)	
Male (A)	1/2" JIC	3/4" JIC	
1/8" NPT	905.160.105 (2)		
1/4" NPT		905.160.102 (2)	
3/8" NPT		905.160.103 (2)	
1/2" NPT		905.160.104 (3)	
G1/4" co	550,596	550,923	
G3/8" co	551,819		

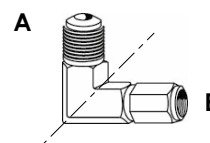

(STAINLESS STEEL) P_{MAX.} = 250 BAR

1/4" NPT	905.210.602	905.210.612
3/8" NPT	905.210.603	
1/2" NPT	905.210.604	
3/4" NPT		905.210.615

(2): up to 360 Bar; (3): up to 250 Bar

MALE TO FEMALE ELBOW FITTINGS (STAINLESS STEEL) P_{MAX.} = 360 BAR

		Female (B)
Male (A)	1/2" JIC	
3/4" JIC		905.210.602


FEMALE TO FEMALE ELBOW FITTINGS (PROTECTIVE COATED STEEL) P_{MAX.} = 400 BAR

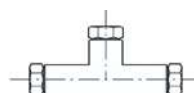
		Female (B)	
Female (A)	G 3/4"	G1"	
G 3/4"	551011		
G1"		551012	

Fittings

T FEMALE CONNECTION P_{MAX.} = 25 BAR

Description	Part number
G 1/4" (8x13)	904.303.002 550.038 (1)
G 3/8" (12x17)	904.303.003
G 1/2" (15x21)	904.303.004
G 3/4" (20x27)	904.303.006
1/4" NPT	905.083.301 (2)

(1): Stainless steel 80 Bar; (2): 250 Bar



Y STAINLESS STEEL FITTING HIGH PRESSURE

	Male (B)
Female (A)	2 x 1/2" JIC
1/2" JIC	029.520.500

PLUGS MALE P_{MAX.} = 20 BAR

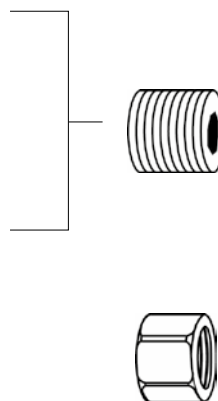
Description	Part number
G 1/8" (5 x 10)	906.333.106
G 1/4" (8 x 13)	906.333.102
G 3/8" (12 x 17)	906.333.104
G 1/2" (15 x 21)	906.333.103
G 3/4" (20 x 27)	906.333.105

PLUGS MALE P_{MAX.} = 360 BAR

Description	Part number
1/8" NPT	905.083.301
1/4" NPT	905.210.303
G 1"	551.247

PLUGS FEMALE P_{MAX.} = 360 BAR

Description	Part number
1/2" JIC	906.333.301



CHECK VALVE

Description	80 BAR	200 BAR	400 BAR	500 BAR
FF 1/4" NPT			903.160.512 (3)	
FF G 3/4"				601.278 (L86 mm)
FF G 1"			625.119 (L141 mm) 625.759 (4) (L141 mm)	
MF G 3/8"		900.011.229		
MF G 1/2"	104.403 (3)			

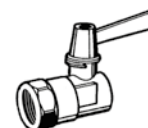
(3): Stainless steel; (4): with plug

SWIVEL FITTINGS

Description	Max pressure	Inlet	Outlet	Part number
TWIST SWIVEL FITTING	500	M 1/2" JIC	F 1/2" JIC	129.670.425
		M 1/4" NPSM	F 1/2" JIC	129.670.435

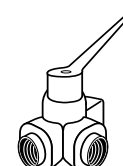
HIGH PRESSURE FLUID VALVES

Description	Input	Output	Maximum fluid pressure (bar)	Part number
Female/Female	G 3/8" (12 x 17)	G 3/8" (12 x 17)	250 bar	000.750.040



3 WAYS VALVE - 350 BAR - PART NUMBERS

Description	Part number
3 x 1/4" BSP (female) (stainless steel)	903.091.006



Spray guns

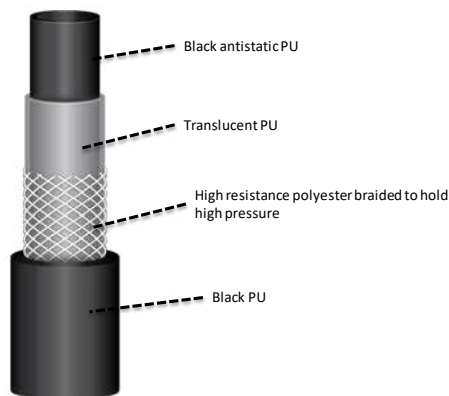
Pumps

Machines & Controllers

Accessories

General informations

Air Hoses



AIR HOSES CONFIGURATION

	Small (ID 6.5)	Medium (ID 8)	Large (ID 9.5)
Technical information			
Material	PU		
Color	Black		
ATEX Certification	Yes		
Internal Diameter (mm)	6,5	8	9,5
External Diameter (mm)	10,5	12	14
Weight without fitting (grams/meter)	61	72	100
Thickness (mm)	2,00		2,25
Flexibility Bending radius (mm)	30	35	40
Maximum operating pressure (bar)	14		
Resistivity	< 106 Ω/m : antistatic		
Operating temperature (°C)	-20 to +60		

FITTING	HOSE LENGHT (METERS)	PART NUMBERS		
1/4" NPS	0,6	050.382.105	050.389.109	-
	1,6	050.382.102	050.389.107	-
	2,5	050.382.111	050.389.110	-
	5	050.382.109	050.389.101	050.381.101
	7,5	050.382.114	050.389.103	050.381.110
	10	050.382.110	050.389.102	050.381.102
	12,5	050.382.106	-	-
	15	050.382.116	050.389.105	050.381.105
	20	050.382.113	050.389.108	050.381.112
	30	-	050.389.106	050.381.111
NO FITTING	25	050.382.001	050.389.001	050.381.001
	152,5	050.382.006	050.389.005	050.381.007
NO FITTING + HOSE ON DRUM	175	-	-	050.381.008
	200	-	050.389.006	
	250	050.382.007	-	

SAMES KREMLIN's fluid hoses bring unique advantages to the end user as they are exceptionally lightweight and flexible.

- The lightest hoses on the market
- Exceptionally flexible
- Premium quality for guaranteed safety



Air hoses are available with fittings up to 30 meters.
Air hoses are available with no fittings on long distance, so you can cut at the exact length needed and crimp by your own using spare fittings below

SPARE FITTINGS TO CRIMP & ACCESSORIES

Designation	small (id 6.5)	medium (id 8)	large (id 9.5)
Complete fitting (A+B+C) to crimp 1/4" NPS	050.231.705	050.231.707	050.231.712
Pack of 10 spare Crimp rings (C)	906.311.237	906.311.238	906.311.240
Manual crimper	906.311.202		
M Clip (pack of 5)	129.725.080		
Protective sleeve (Diameter: 40mm, length: 10m)	129.270.087		



FAST FITTINGS FOR SMALL DIAMETER SPECIAL AIR HOSES

A	B	Straight	Right angle 90°	T- piece
G1/8" (5x10)	4	905.120.907	905.120.926	
	6	905.124.901	552262	
	8		905.120.934	
G1/4" (8x13)	4		905.120.927	
	6	905.120.965	905.120.905	
	8	905.120.904	905.120.912	905.120.920
	10	905.190.406	552280	
G3/8" (12x17)	10		905.190.415	

FAST FITTING T

Description	Part number
For hose 2,7 x 4	905.120.957
For hose 4 x 6	905.120.903
For hose 6 x 8	905.120.915
Reduction 2,7 x 4 / 4 x 6	905.120.928

FAST FITTING REDUCTION AND UNION

Description	to	Part number
Ø2,7 x 4	Ø4 x 6	905.120.945 (C)
Ø4 x 6		552.322 (D)
Ø6 x 8		905.120.923 (C)

Y AIR FITTING

Description	to	Part number
F 1/4" NPS	2x M 1/4" NPS	129.029.920

ISO 6150 QUICK-FIT FITTINGS (MAXIMUM PRESSURE: 10 BAR)

Type	Complete assembly E and F	Part E	Female fitting	Male fitting	Part F	
					Cuanneled	
					Ø 7	Ø 10
Ø5 (14x125)	905.030.405	905.030.102	905.030.406	-	905.030.203	905.030.204
Ø5 (1/4" BSP)	-	-	-	905.030.804	-	-
Ø5 (1/4" BSP)	-	-	905.030.803	-	-	-
Ø5 (1/4" NPS)	905.030.105	905.030.104	905.030.106	-	-	-
Holding collar	-	-	-	-	906.311.224	906.311.226

COMPLETE QUICK DISCONNECT 1/4" NPS FOR AIR HOSE

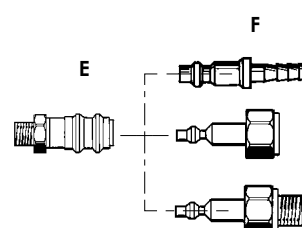
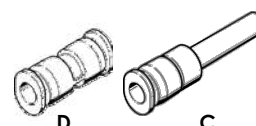
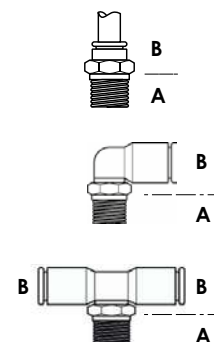
Description	Part number
Air inlet quick-disconnect fitting	905.030.105

QUICK FITTINGS FOR Ø 8 HOSE

Type	Part A with on/off press button for hose Ø 8	Part C for hose Ø 8
Ø 5	905.030.801	905.030.802

CRIMP FITTINGS FOR LOW PRESSURE AIR HOSES

Description	Thread size	Hoses Inter. Diameter (mm)	Part G	Part H
Straight fittings				
Nickel plated brass	1/4" NPS	7	050.231.705	906.311.224
Nickel plated brass	1/4" NPS	8	050.231.707	906.311.224
Nickel plated brass	1/4" NPS	10	050.231.702	906.311.226
Nickel plated brass	3/8" NPS	7	050.231.716	906.311.224
Nickel plated brass	3/8" NPS	10	050.231.706	906.311.226
Nickel plated brass	3/8" NPS	16	050.231.701	906.311.232
Stainless steel	M 14 x 125	5	050.230.610	906.311.208
Nickel plated brass	M 14 x 125	10	050.230.602	906.311.226
Nickel plated brass	M 18 x 125	7	050.230.616	906.311.224
Stainless steel	M 18 x 125	10	050.230.614	906.311.226
Nickel plated brass	M 18 x 125	10	050.230.606	906.311.226
Nickel plated brass	M 18 x 125	16	050.230.601	906.311.232
Nickel plated brass	M 26 x 125	16	050.230.603	906.311.232
Elbow fittings - I				
Nickel plated brass	M 18 x 125	10	050.250.202	906.311.226
Junction fittings without thread - J				
Nickel plated brass	-	7	050.190.403	906.311.224
Nickel plated brass	-	10	050.190.401	906.311.226



Spray guns

Pumps

Machines & Controllers

Accessories

General informations

Non conductive hoses

Full range of non-conductive fluid and air hoses



- Polyamide fluid hoses for very thick materials like glue

POLYAMIDE FLUID HOSE

Polyamide fluid hoses are available with or without fittings.

POLYAMIDE FLUID HOSE CONFIGURATIONS

		Small (ID 6.35)	Medium (ID 9.52)
Technical information			
Conductive			
Color			
Maximum operating pressure (bar)			
Operating temperature (°C)			
Fittings assembled on the hose	Hose Length (meters)	Small Diameter (ID6.5)	Medium Diameter (ID9.5)
1/4" NPS	5	050.370.301	-
	10	050.370.302	-
3/8" NPS	2	-	050.370.504
	5	050.370.201	050.370.502
	10	050.370.202	050.370.503
No Fitting	5	050.370.805	050.370.905
	15	050.370.804	050.370.904
	25	050.370.801	050.370.901
	100	050.370.803	050.370.903

SPARE FITTING TO CRIMP & ACCESSORIES

The reusable fitting can be assembled by hand on the hose, no need for a crimper

Designation	Small Diameter (ID 8)	Medium Diameter (ID9.5)
Complete Reusable Fitting 1/4" NPS	050.231.450	-
Complete Reusable Fitting 3/8" NPS	050.231.350	905.140.103

POLYAMIDE OR POLYURETHANE FLUID HOSE

Non-conductive Air hoses to clip on automatic guns or any device.

Conductive	No							
Max operating pressure	10 Bar							
Temperature	Up to 60°C							
Length	25m							
Material	Polyamide				Polyurethane			
Color	Translucent			Black		Blue		Black
Diameter (internal/external) in mm	2.7 x 4	4x6	6x8	6x8	8x10	4x6	6x8	8x12
Part number	050.372.102	050.372.103	050.372.104	050.372.124	050.372.125	050.372.213	050.372.214	050.372.226

Lubricants & greases



Description	Volume	Material	Part number
Lubricants for pump fittings			
T lubricant can	125ml	For solvent-based paints	149.990.020
T lubricant kit	3x 2L = 6L		151.260.820
P lubricant can	2L	For Polyurethane paint	149.990.022
P lubricant kit	3x 2L = 6L		151.260.823
Grease			
Vaseline	1kg		560.440.002
Box of PTFE grease	450g		560.440.001
Box of grease special air motor seals (Isoflex)	1kg		560.440.005
Box of grease (Isoflex)	1kg		560.440.003
Grease tube special air motor seals	20g		560.440.105
Teflon® grease tube (Technilub)	10ml		560.440.101
Box of white grease	450g		560.420.005
Glue			
Low strength anareobic adhesive tube	50 cc		554.180.010
Retaining Compound - high strength. General purpose. Fast curing.	50 cc		554.180.014
Sealing glue tube	250ml		554.180.015

MISCELLANEOUS

Description	Part number
M22 / Fpro /Xcite™ gun wrench	049.030.042
Large size brush	906.300.101
Small size brush	906.300.102
Wrench for product filters	049.030.018
Large blow gun	129.371.000
Viscosity cup n° 4 CA4	049.221.400
Thickness gauge from 25 to 2000µ	000.790.020
Adhesive-roller with Sames Kremlin logo (75mm x 100m)	571.141.003
Teflon roll 13.5M.X12.7mm	554.600.301

TACK WIPE PADS

Silicon-free, antistatic, soft, non toxic, non-drying dust absorbers.

PART NUMBERS

Description	Quantity	Part number
Box of 10 (white-coloured, for finish)	24	149.990.023
Box of 10 (unbleached for primer)	24	149.990.024



RC 756 respirators

Lightweight, comfortable respirators efficient for each type of paint and compliant with the latest european norms (Respirator: EN 140, Filters: EN 14393).



FEATURES	BENEFITS
Equipped with large inlet and outlet valves	Easy breathing
Double fixing straps	Comfortable
Double filters	Performance (large diameter), visibility and high level of safety
Three high performance filters type available (solvented, water-based or multi with isocyanate materials)	For an optimal protection whatever the type of paint used

CONFIGURATION OF THE RC756 RESPIRATOR

Description	Part number
RC 756 respirator	143.380.100
RC 756 respirator for SOLVENT-BASED PAINTS - A1 filters	143.380.200
RC 756 respirator for WATER-BASED PAINTS - A1B1P3 filters	143.380.300
RC 756 respirator for PLURAL COMPONENT PAINTS - ISOCYANATES - A1B1E1K1P3 filters	143.380.400

FILTERS AND PRE-FILTERS

Description	Type	Quantity	Part number
Filters for solvented paints	A1	10	143.380.210
Filters for water-based paints	A1B1P3	5	143.380.310
Filters for plural-components-isocyanates	A1B1E1K1P3	5	143.380.410
Pre-filters for A1 filters	-	25	143.380.110

ACCESSORIES

Description	Quantity	Part number
Attach strap	1	143.380.120
Spare inlet/outlet valves	3	143.380.130

Protective overalls

Protects the operator. Comfortable to wear, giving protection for dust or plush.

- Conforms to European Standards
- Made in non-woven fabric, they come with elasticated wrists and wide trouser legs to protect footwear

PART NUMBERS

Description	Size	Quantity	Part number
Overalls Size S for 5 sets	S	5	564.504.001
Overalls Size M for 5 sets	M	5	564.504.002
Overalls Size L for 5 sets	L	5	564.504.003
Overalls Size XL for 5 sets	XL	5	564.504.004
Overalls Size XXL for 5 sets	XXL	5	564.504.005

PROTECTIVE HOOD

Protects the head and hair

- Non-woven, light and lets the skin breathe
- Conforms to European Standards

PART NUMBERS

Description	Quantity	Part number
Protective hood	5	043.250.001



General informations

Paint

Decoration and protection are often two associated functions. To achieve these aims, and to re-finish products, we have at our disposal a tremendous number of surface treatments, (for example nickel or chrome plating etc).

Paint is also perfect for both of these functions. In addition, paint is universally used, and can be applied on any surface, such as wood, metal, stone, leather, plastic and elastomers. Paint does not come as a finished product, and hence the quality of application will depend on all its stages of preparation, which we will call the "Painting System".

In general, the stages are as follows :

- » Surface preparation
- » Application of the coating (paints, stains, varnishes, etc)
- » Drying



Paint

Surfaces preparation

There is a wide range of physical and chemical treatments to which the surface to be coated can be subjected, before receiving the first coat. Good surface preparation is the essential base for long-lasting protection and a good visual finish on any material.

The surface preparation is often the longest, and therefore the most important task involved in coating a part.

Material	Physical preparation	Chemical preparation
Steel:	stripping, shotblasting, brushing	acid
Aluminum:	Brushing	Vapor blast
Wood:	Sanding	
Plastic:	heating	plasma torch, acid

Once treated, the surfaces should be free from :

- » particulate or non-adherent substances
- » oil, grease and moisture

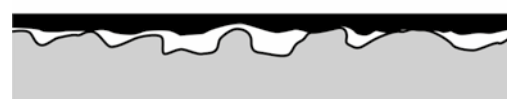
To obtain the best protection against corrosion (mainly for metal), we coat with either :

- » a wash primer or
- » an anti-corrosion paint

A **wash primer** is a liquid product of around 16s CA_4 , which should be sprayed in a thin coat, to get into all the imperfections in the surface of the metal. The phosphoric acid which it contains attacks the surface of the metal and forms an isolating and impenetrable layer of phosphate. The wash primer is highly valued for its adhesion to the metal. Importantly, it should then be coated with a layer of paint, which plays the role of a protective shield.

An **anti-corrosion** paint is a product which should be sprayed in a thicker layer than the wash primers. Containing anti-corrosive elements, it has the advantage of protecting the metal both physically and chemically at the same time. Also, it saves time, as a single coat applies both the anti-corrosive chemicals and the protective shield to the metal.

These paints are used very frequently on metal framework, as the coating can be left as it is, or covered subsequently with the desired paint finish.

16s CA_4 40s CA_4

Paint

Looking at a painted object will tell us that paint is hard. However, the paint which we spray is a liquid.

This transformation is due in the main part to several components of paint whose functions are described below.

Components of paint

Paint contains one or more substances which are generally dissolved in a solvent (or in water) and which regain their solid consistency after drying on the surface.

Amongst these substances, we find :

- » Binders
- » Pigments
- » Fillers

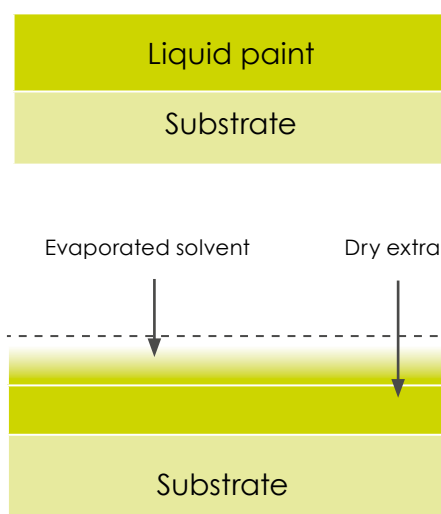
The binder is generally a more or less transparent body which resembles a resin. Dissolved on its own in a solvent it produces a lacquer:

Binder + Solvent = Lacquer

Paint often bears the name of the type of solvent on which it is based (cellulose paint is based on a cellulose solvent). To darken the finish, we add highly colored and very fine powders, which we call pigments:

Binder + Solvent + Pigments = Paint

Dry and wet layer



GLOSSARY

» **Sticky film :**
we say that a film is sticky when we put a finger on it and it feels like adhesive tape

» **Dust-free film :**
we say that the film is dust-free, when any dust which lands on it can be removed by blowing

» **Film that is dry to the touch :** we say that the film is dry to the touch when a finger does not leave a mark on the surface.

» **Finger-nail hard :** we say that the film is finger-nail hard when we cannot mark it. In this state, it can be polished or sanded.

Paint

Finally, to give the finish specific characteristics, we use a whole range of fillers and additives. Solvents make it possible to dissolve the other components of the paint, and can be classed into the following three groups:

» **Fast solvents** : they evaporate extremely quickly, to such an extent that the paint can dry too quickly, not allowing it enough time to adhere correctly to the surface. These solvents are never used on their own.

» **Slow solvents** : they evaporate very slowly, allowing the paint to adhere properly. They leave a soft and smooth finish. Slow solvents are not very widely used because they significantly increase the drying time.

» **Medium solvents** : they evaporate in a few seconds ; this is enough to ensure good adhesion, while giving a satisfactory drying time.

In order to make the correct paint, the manufacturer first of all makes a list of the solvents capable of dissolving all the binders he wishes to include, and then chooses those with a volatility suitable for the planned method of drying (whether at room-temperature or in an oven). Before application, paint is often reduced to give a consistency which is ideal for the task.

Paint consistency

Viscosity

The consistency of the paint should be adapted for the type of application. It is identified by the extent of its viscosity, which is expressed in centipoises or by measuring the time in seconds that it takes for a certain amount of paint to run through a calibrated viscosity cup. There are different viscosity cups used for measuring the viscosity of paints. The table below shows the relationship between cup size and viscosities in Centipoises.

AFNOR 4 (CA4)	ISO 4	mPas.s	Centipoises	Ford 4 (CF4)	DIN 4 (D°)	CH (Fr)	ZAHN (n°2)
12	-	20	20	10	11	6	18
14	17	25	25	12	12	7	19
16	23	30	30	14	14	-	20
20	34	40	40	18	16	8	22
25	51	50	50	22	20	9	24
29	60	60	60	25	23	10	27
32	68	70	70	28	25	-	30
34	74	80	80	30	26	11	34
37	82	90	90	33	28	12	37
40	93	100	100	35	30	13	41
45	-	120	120	40	34	14	49
50	-	140	140	44	38	15	58
56	-	160	160	50	42	16	66
61	-	180	180	54	45	17	74
66	-	200	200	58	49	18	82
70	-	220	220	62	52	19	-

Nota: 1 poise = 100 centipoises and 1 mPas.s = 1 centipoise (If the density of the paint is equal to 1 and if it is a fluid Newtonien, that is to say no thixotrope).

The effect of temperature on viscosity

Viscosity of paint changes with variations in temperature; basically, the resins are far more fluid when they are hot.

The table below shows the changes in viscosity of a glycerophthalic paint as the temperature varies. It is worth noting that a paint which has a viscosity of 22s at 68°F will have a viscosity of 28s at 54°F and of 17s at 90°F.

	Temperatures (°C)																			
	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
viscosity in seconds CF #4	27	26	24	23	22	21	21	20	19	18	18	17	17	16	15	15	14	14	14	14
	33	31	29	27	26	25	23	22	21	20	19	18	18	17	16	16	15	15	14	14
	39	36	34	32	30	28	26	24	23	22	21	20	19	18	17	17	16	15	15	14
	46	42	39	36	34	31	29	27	26	24	23	22	21	19	18	17	17	16	15	15
	54	49	45	41	38	35	32	30	28	26	24	23	21	20	19	18	17	17	16	15
	56	51	47	43	40	36	33	31	29	27	25	23	21	20	20	19	18	17	16	16
	61	55	50	46	42	38	35	32	30	28	26	24	22	21	20	19	18	17	16	16
	69	63	56	52	46	42	39	35	32	30	28	25	24	23	21	20	19	18	17	16
	77	69	62	55	50	46	41	38	35	32	29	27	25	24	22	21	19	18	17	16
	84	74	67	61	54	50	44	40	36	34	30	28	26	25	23	22	20	18	17	16
	95	84	75	66	60	54	48	44	40	36	33	30	28	26	24	22	20	19	18	17
	104	92	81	73	65	58	52	46	42	38	35	31	29	27	24	23	21	20	19	18
	112	100	88	76	69	62	54	49	44	40	36	32	30	27	25	23	21	20	19	18
	122	108	90	85	75	66	59	53	47	42	38	35	31	28	26	24	22	21	19	18
	132	120	102	90	80	70	63	55	50	44	40	36	33	30	27	25	23	22	20	18
	142	124	108	95	84	74	65	58	52	46	41	37	34	31	27	25	23	22	20	18
152	132	119	101	90	80	69	61	54	48	43	38	35	31	28	26	24	23	21	18	
164	140	123	106	94	83	73	64	56	50	45	40	36	32	29	27	24	23	21	18	

Example : at a temperature de 20°C for an announced viscosity of 22s, you should be ready for the following results:

- at 12°C, a viscosity of 28s,
- at 32°C, a viscosity of 17s.

Paint

Quality problems tend to arise when the temperature of the paint changes during the course of the day. For example : During the course of this day, the viscosity of the paint has moved from 23 to 17 seconds, which leads to a 22 % increase in the output of the spray guns, leading to over-coloring and excessive product consumption.

	Temperatures (°C)	Viscosity - CA4 (seconds)	Spray gun output (cm3/mm)
morning, cool workshops	15	23	460
Later - workshop heats up	20	20	520
An oven switched on	25	17	560

Worse still, paint prepared in a hot workshop at 20 seconds can be at 28 seconds the following morning, before the workshop has got up to full working temperature: this would lead to a less fine spray and a much greater drying time.

Drying of paints

he component of paint can be classed in two groups :

» Dry extracts

» VOC (Volatile organic compounds), or water in case of water-based paints

Drying paint is all about allowing the volatile products to evaporate and the film to harden. We must distinguish between hardening and drying.

Drying gives us the dry film purely by the evaporation of the volatile products. This happens at two stages: during spraying and within the film. Depending on the temperature, the density of the spray, the type of spray gun and the distance of the spray, the paint can arrive on the surface more or less dry. That means that the majority of the solvent has evaporated before the paint reaches the surface. The drying of the wet film is accelerated when the surface is in a well-ventilated area which has dry air and is dust-free.

Practicals pages

Choosing a pump

To optimize

- For the best pump capacity, first work out the output you are going to require. This will include the sprayguns themselves, and any circulation you plan to have within this system. Once you have this figure, multiply by 1.2, and then choose the pump of which output at 30 cycles per minute is the nearest.
- The compression ratio you will need is defined by the pressure losses due to the length and diameter of the hosing of your system. To calculate these pressure losses, see page 99.

Example

let say you want to feed 3 conventional guns with an output of 500 cc/mn each, plus a circulation of 0,5 l/mn.

The total output will thus be 2 l/mn. The optimal pump capacity would be: $(2\ 000 \times 1,2) \div 30 = 80$ cc/cycle.

The best-suited pumps will be :

- » the PMP 150 (output of 100 cc/cycle and pressure ratio of 1:1) for low viscosity materials and a small circulating (pressure loss < 3 bar).
- » the 02.75 (output of 85 cc/cycle and pressure ratio of 2:1) for thicker materials and a normal circulating (pressure loss < 6 bar).
- » the 04.120 (output of 240 cc/cycle and pressure ratio 4:1) for large pressure loss in circulating (up to 15 bar).

Pump Material Feeding

To guarantee the right delivery of product, we offer the following range of equipment for various product viscosity :

- » 0 - 300 cps
 - suction rod.
- » 300 to 8 000 cps
 - top outlet pressure pots,
 - pumps (gravity or suction rod),
 - pump with base intake valve.
- » 8 000 to 15 000 cps
 - bottom outlet pressure pots,
 - pumps with suction rods,
 - compressor.
- » 15 000 to 30 000 cps
 - no more pressure pot,
 - no more suction rod,
 - submerged hydraulic pump,
 - compressor,
 - pump with single action elevator.
- » 30 000 à 1 000 000 cps and +
 - pumps with peak feeder and double action elevator.

Filtration equivalence

Mesh (number of holes in 25,4 mm)	Micron	N° filtre (mesh opening in µm)
10	1480	–
16	975	–
20	750	30
25	630	25
30	500	20
40	375	–
45	360	15
50	300	12
60	238	–
70	210	8
80	175	6
100	149	–
140	100	4
170	90	3
200	74	–
250	60	–
270	50	2
325	40	1
400	35	–

Pressure loss in fluid hoses

Pressure drop is the resistance that prevents material from moving forward in the pipe. Two pipe variables influence this resistance : the (inside/internal) diameter and the pipe length. The pump will generate a pressure, strong enough to move the fluid material through the pipe (or hose) to the material pipe outlet. This pressure must be enough to overcome the original pressure drop. While it is hard to reduce the pipe length, it is relatively easy to select an appropriate internal pipe diameter.

PRESSURE DROP CALCULATION

$$\text{Pressure loss (bar/m)} = \frac{6.9 \times \text{Flow (l/min)} \times \text{Viscosity (cps)}}{D^4 \text{ (int dia in mm)}}$$

$$\text{Pressure loss (psi/Ft)} = \frac{2.73 \times \text{Flow (gpm)} \times \text{Viscosity (cps)}}{D^4 \text{ (int dia in inches)}}$$

FLOW RATE CALCULATION

$$\text{Flow (l/min)} = \frac{\text{Pressure loss (bar/m)} \times D^4 \text{ (int dia in mm)}}{6.9 \times \text{Viscosity (cps)}}$$

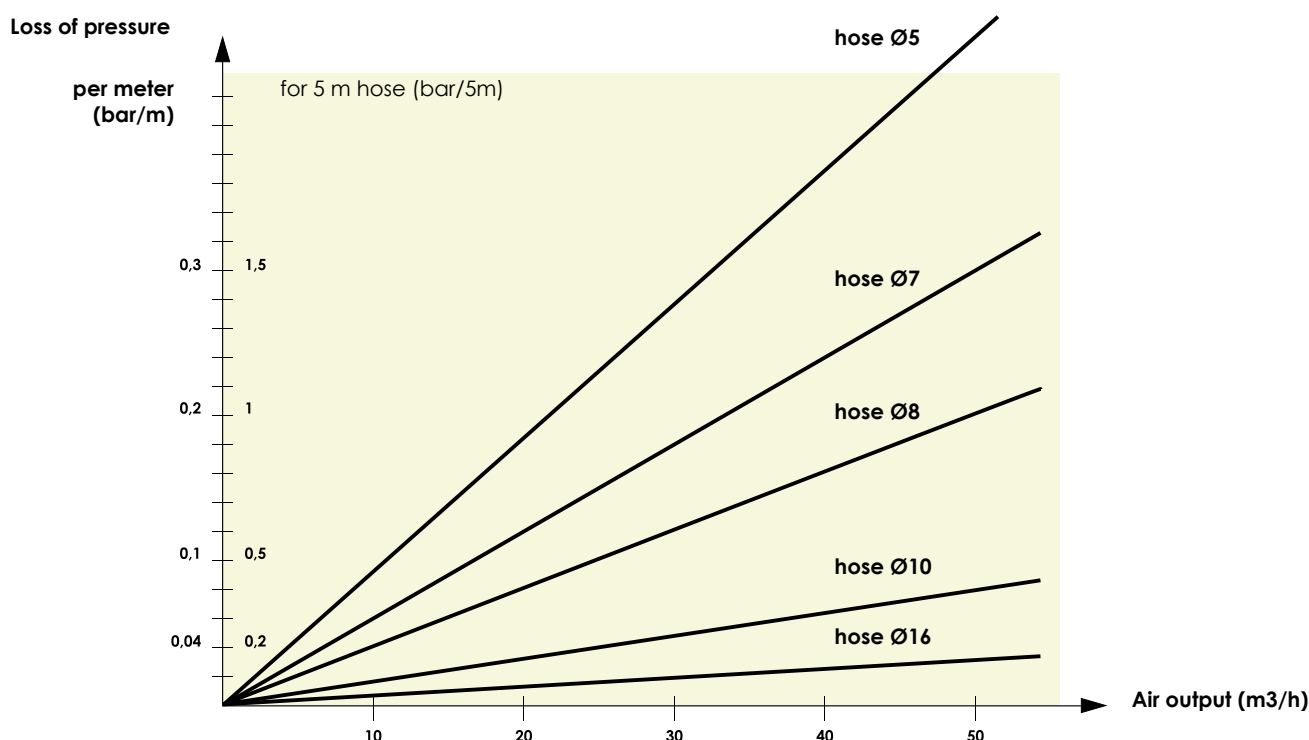
$$\text{Flow (gpm)} = \frac{\text{Pressure loss (psi/Ft)} \times D^4 \text{ (int dia in inches)}}{2.73 \times \text{Viscosity (cps)}}$$

PIPE DIAMETER CALCULATION

$$\text{Interior Dia (mm)} = \sqrt[4]{\frac{6.9 \times \text{Flow (l/min)} \times \text{Viscosity (cps)}}{\text{Pressure Loss (bar/m)}}}$$

$$\text{Interior Dia (in)} = \sqrt[4]{\frac{2.73 \times \text{Flow (gpm)} \times \text{Viscosity (cps)}}{\text{Pressure loss (psi/Ft)}}}$$

Pressure loss in air hoses



Electrostatic spraying : suitability of the equipment depending on the resistivity of the paints

- The wrap-around affect is optimized with paints of resistivity range of 5 - 50 MΩ.cm.
- Specific hoses allows for wrap-around effects for resistivity range higher than 2MΩcm.
- For water-based materials (0 MΩ.cm), a special Isocube enclosure allows to benefit from all the advantages of electrostatic spraying in complete safety.

List showing the compressed air consumption of normal air tools

We generally multiply the instant consumption by a coefficient of 0,5 to 0,9 to allow for the time the tool is not in use.

The average air volume delivered by a compressor of 1 CV is of 8 m³/h.

Tool	Consumption	
	l/mn	m³/h
Projection equipment	800 at 1 800	48 at 108
Riveter	450 at 1 500	27 at 90
Pneumatic drill	600 at 1 200	36 at 72
Linisher Ø 230	1 200 at 4 000	72 at 240
Drill 13 mm	600	36
Rotating sander	200 at 400	12 at 24

Tool	Consumption	
	l/mn	m³/h
Conventional gun	160 at 500	10 at 30
AIRMIX® gun	67 at 134	4 at 8
Pumps	160 at 1 350	10 at 80
Blower	200 at 400	12 at 24
Screwdriver	200 at 400	12 at 24

Calculate exactly the maximum air consumption of pump in l/mn : Q

The formula is :

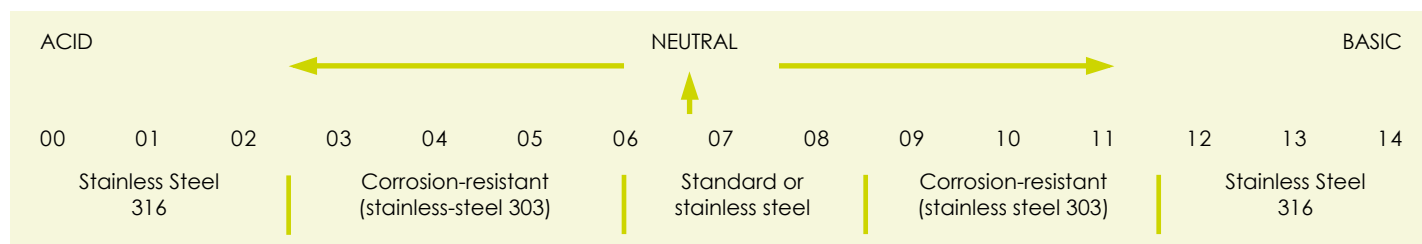
$Q = 1.2 \times \text{fluid output} \times \text{pressure ratio} \times (\text{air motor feeding pressure in bar} + 1 \text{ bar for atmosphere})$

Example for a pump 16.120 : $Q = 1.2 \times 4,8 \times 16 \times (6 + 1) = 645.12 \text{ l/mn}$ or $(645.12 \times 60) : 1000 = 38.7 \text{ m}^3/\text{h}$

Practicals pages

Value of « PH »

The pH value of a liquid or a solution quantifies its concentration of hydrogen ions and tells us the extent to which it is acidic or alkaline. The PH value dictates the best materials to be used in construction of major paint handling and spraying equipment.



Practical information:

Metric - english conversion

CONVERT FROM	TO	MULTIPLY BY
Centimeters	feet	0.03280
Centimeters	inches	0.3937
Centimeters/min.	feet/min.	1.9684
Centimeters/sec.	feet/sec.	0.03281
Cubic centimeters.	cubic feet	3.5314×10^{-5}

CONVERT FROM	TO	MULTIPLY BY
Cubic centimeters	ounces	0.033
Cubic centimeters	liquid gallons	0.0002642
Cubic feet	liquid gallons	7.4805
Cubic feet	cubic inches	1.728
Cubic feet/min.	gallons/min.	7.4805

CONVERT FROM	TO	MULTIPLY BY
Cubic inches	gallons	0.004329
Cubic inches	cubic centimeters	16.387
Cubic inches	cubic feet	0.0005787
Cubic meters	liquid U.S. gallons	264.17
Cubic meters	cubic centimeters	1×10^6

CONVERT FROM	TO	MULTIPLY BY
Cubic meters	cubic feet	35.31
Cubic meters	cubic inches	61,023.38
Feet	centimeters	30.48006
Feet	meters	0.3048006
Feet of water	atmosphère	0.02949

CONVERT FROM	TO	MULTIPLY BY
Feet of water	psi	0.443
Feet/hour	miles/hour	0.00018933
Feet/min.	meters/min.	0.3048
Feet/min.	miles/hour	0.01136
Feet/sec.	miles/hour	0.681818

CONVERT FROM	TO	MULTIPLY BY
Gallons	cubic cm	3 785.43
Gallons	cubic inches	231
Gallons	imperial gallons	0.83268
Gallons	cubic feet	0.13368
Gallons/min.	cubic feet/min.	0.13368

CONVERT FROM	TO	MULTIPLY BY
Inches	feet	0.083333
Inches	meters	0.254
Inches	millimeters	25,40005
Inches	mils	1 000
Kilograms	pounds	2,2046

CONVERT FROM	TO	MULTIPLY BY
Kilogrammes/cm²	psi	14,2233
Kilogrammes/mm²	psi	1 422,33
Liters	gallons	0,264178
Meters	feet	3,2808
Meters	inches	39,37

CONVERT FROM	TO	MULTIPLY BY
Poise	centipoise	100,0
Pints of water	gallons	0,11985
PSI	atmosphère (bar)	0,06804
Inches²	cm²	6,4516
Inches²	feet²	0,006944
Inches²	mm²	645,163
Millimètres²	inches²	0,0015499
daN	Kilograms	1.0

- » For the diameter of a circle, multiply the circumference by 0.31831.
- » For the circumference of a circle, multiply the diameter by 3.1416.
- » For the surface of a circle, multiply the diameter² by 0.7854.
- » For the surface of a sphere, multiply the diameter² by 3.1416.
- » To find the side of a square that has the same surface area of a circle, multiply the diameter by 0.8862.
- » To find the number of cubic inches in a sphere, multiply the diameter by 0.5236.
- » To find the number of gallons inside a pipe or cylinder, divide the volume in liters by 231.
- » To find the cubic volume of a cylinder or pipe, multiply the section area by the length.

Practical information

Chemical compatibility charts

MATERIAL IN CONTACT (Wetted Parts)

	Carbon steel	Aluminium	Brass	Stainless steel	Nylon	Nitrile	Viton	Leather	P.U.
Butyl acetate	•••	•••	•••	•••	•••	N	N		N
Ethyl acetate	••	••	••	••	•••	N			
Acetaldehyde	•••	•••	•••	•••	•••	N	N	••	N
Ammonium acetate				•••					
Acetic acid	•••			•••	•••	N	N	N	N
Boric acid	•••	•••		•••	•••		•••	•••	•••
Hydrobromic acid					•••	N	•••		
Chloridic acid	N	N		N	•••	N	•••		
Chromic acid	N	N	N	•	•••	N			
Citric acid				•••	•••		•••		
Fluorohydric acid						N	•••		
Fluosilicic acid			•••		•••	N	N		
Formic acid	N	••	N	•	•••	N	•		
Nitric acid	N	N	N	•••	•••	N	•••		
Oxylic acid	N	N	N	N	•••		•••	•••	•••
Phosphoric acid	N	N		•••	•••	N	•••		
Ethylalcohol						•••	N		
Methylalcohol	•••						N	•••	N
Acetic aldehyde	•••	•••		•••	•••	N	N		N
Formic aldehyde	N	••	N	N	•••	N	•••		N
Sodium alginate					•••		N		
Starch						•••	•••		
Amines					•••	N	N	N	
Acetone	•••	•••		••	•••	N	N		N
Liquid ammonia	•••	•••		•••	••	••	N	N	
Benzene	•••	•••	•••	•••	•••	N	•••	••	•
Sodium bicarbonate		N	N	•••	•••	•••	•••		
Chlorine dioxide						N	•••		
Sodium bisulphate	N	N		N	•••	N	•••		
Brominate						N			
Calcium carbonate	•••			•••	•••	•••	•••	•••	
Sodium carbonate					•••		•••		
Chlorinate, gas						•••	•••		
Sodium chlorite							•••		•••
Aluminum chlorosulfate					•••	•••	•••	•••	
Calcium chloride	•••			•••	•••		•••		•••
Magnesium chloride	••	N		N	•••	•••	•••	•••	•••
Potassium chloride	N	N		••	•••	•••	•••	•••	•••
Sodium chloride					•••	•••	•••		•••
Zinc chloride	N	N		N	•••	•••	•••		•••
Ferrous chloride	N	N	N	N	•••		•••		
Ferric chloride	N	N	N	N	•••		•••		•••
Cyclohexane	•••	•••	•••	•••	•••	•••	•••		
Chlorobenzene	•••			•••	•	N	•••		N
Ethylene chloride		••			••	N	••		N
Methylene chloride	••	N	••	••	N	N	••		N
Diatoms						•••	•••		
Dichloroethylene					•••				
Diethylene glycol	•••	••		•••	•••	•••	•••		N
Bleach	N	••		•••	•••				•
Distilled water	N	•••	•••	•••	•••		•••	•••	•••
Oxygenated water	N		N	••	N		••		•••
EDTA						•••	N		
Fertilizer						•••	N		

Practical information

Chemical compatibility charts

MATERIAL IN CONTACT (Wetted Parts)

	Carbon steel	Aluminium	Brass	Stainless steel	Nylon	Nitrile	Viton	Leather	P.U.
Ethanol					•••	•••	N		
Ethyl ether	••	••		••	•••	N	N		•
Ethylene glycol	••	••	•••	••	•••	•••	•••		N
Ethyl-mercaptan						N	•••		
Fuel						N	•••		
Fluosilicate			•••		•••	•••	•••		
Formaldehyde	N	••		N	••	•••	•••		N
Glycol	••	••		••	•••	•••	•••		N
Gelatine	N	••		•••	•••	N	N		N
Sodium hydroxide					•••	N	N		N
Ammonium hydroxide				•••	•••	N	N	••	N
Potassium hydroxide	•	N		••	•••	N	N		N
Calcium hypochlorite				•	•••	N	•••	N	
Sodium hypochlorite					•••	N	•••		N
Sodium hyposulfite					•••	N	•••		
Fruit juice						•••	•••		
Methanol	N	•••		•••			N		•
Morpholine	•••	•••				N	N		
Methylethylcetone	•••	••		•••	•••	N	N		N
Sodium nitrite					N	N	•••		
Perchlorethylene (tetrachloret.)	•••	••		•••	N	••	•••		N
Potassium permanganate	••	••		••	•••	N	•••		
Hydrogen peroxide	N	•••	N	••		N	••		
Chlorohated Peroxyde						N	•••		
Phenol	N	N			•••	N	•••		
Ammonium phosphate			•••	•••	•••	•••	•••		
Trisodium phosphate	•••	N		•••	•••	•••	•••		
Aluminium polychlorite						•••	•••		
Polyelectrolytes						•••	•••		
Caustic potash		N		•••		N	•••		
Sodium silicate					•••	•••	•••		
Soda						N	N		
Aluminium sulfate					•••	•••	•••	•••	N
Ammonium sulfate					•••				•••
Calcium sulfate	•••	•••		•••	•••		•••		
Copper sulfate				•••	•••	•••	•••		•••
Ferrous sulfate		N		••	•••	•••	•••		
Ferric sulfate	N	N		N	•••	•••	•••		•••
Sodium sulfate	N				•••	•••	•••		
Hydrogen sulfur	•••				•••	•••	N		
Carbon tetrachloride	••		•••	•••	•••	N	•••		
Toluene	•••	•••		•••	N	N	•••		N
Trichlorethane	••	N		••	N	N	•••		N
Trichlorethylene	••	•••		••	N	N			N
Triethyleneglycol				••	•••		•••		
Urea	••	••		••	•••		•••		
Xylenes	••	••		••	•••	N	•••		N

••• = High Compatibility
 •• = Good Compatibility

• = Low Compatibility
 N = Not Compatible

Bond | Protect | Beautify

With our manual guns, automatic and robotic applicators, supplied by our wide range of pumps & machines for fluid handling, dosing, mixing & dispensing.

SAMES KREMLIN provides industrial solutions for production increase, quality improvement, material & cost savings.

We are designers and manufacturers of process equipment that is divided into **6 ranges**:

Airspray: Since 1925, we have been an Airspray manufacturer bringing you the very best in finishing.

Airmix®: Creator of Airmix® Technology since 1975, we provide the perfect mix between quality and productivity.

Airless®: We provide premium Airless Products for finishers with demanding applications.

High Viscosity: Pumping beyond possible, dispensing precisely.

Electrostatic: expertise for high finishing quality & efficiency.

Powder: Powder coating solutions for the highest Productivity since 1960.

FIND YOUR
LOCAL CONTACT
BY FLASHCODE:



www.sames-kremlin.com



13 chemin de Malacher - CS 70086

38243 MEYLAN Cedex - FRANCE

Phone: +33 (0)4 76 41 60 60 - Fax: +33 (0)4 76 41 60 90