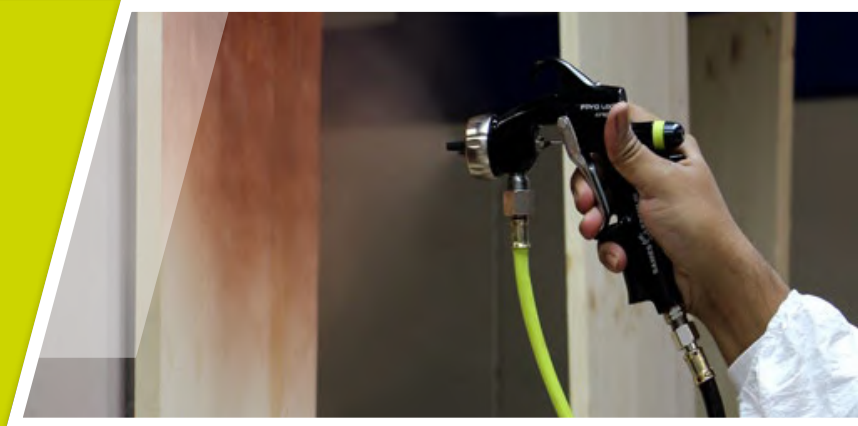


# SAMES KREMLIN



## Airspray spraying & equipment



## Catalog **v5.2**

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

## Apply your Skills

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## 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.

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# 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 CALL 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

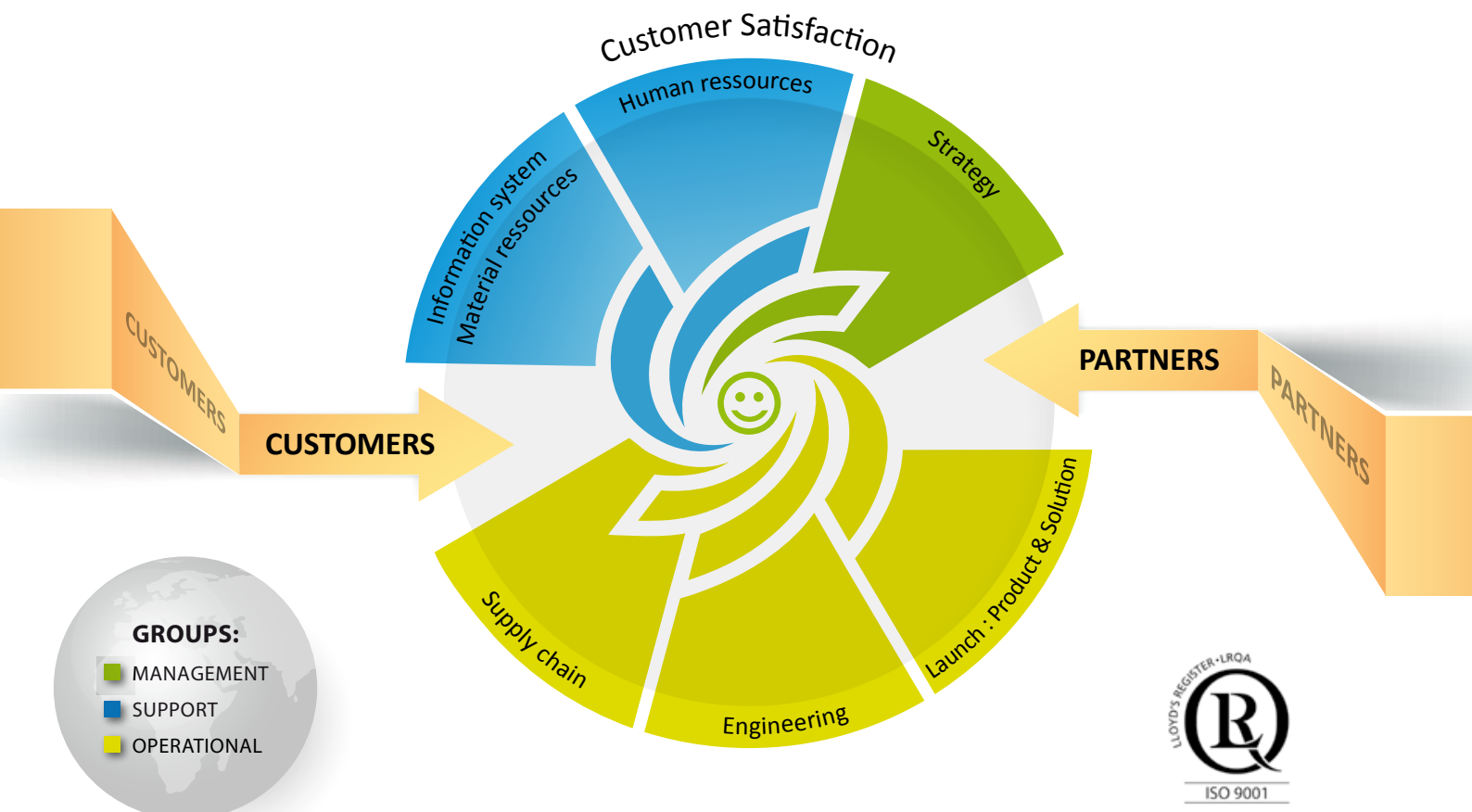
In conformity with the ISO9001 standard - issue 2008, the requisite procedures and registrations are mastered. The seriousness with which **SAMES KREMLIN**'s quality policy is dealt ensures you an optimum quality at each stage of the production and of the assembly of the components.

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

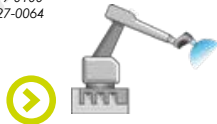
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Office



Application Center

# 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

**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**



## 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 16 s Zahn#2, 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<sub>4</sub>40s CA<sub>4</sub>

# 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

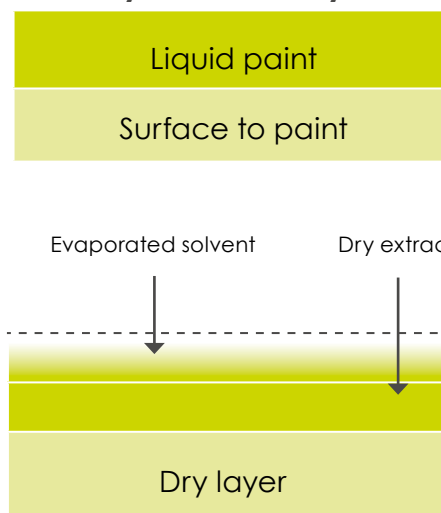
The binder is generally a more or less transparent body which resembles a resin. Dissolved on its own in a solvent it produces a lacquer:

**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 as 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	
V i s c o s i t y		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	
	C F # 4		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 22 s, you should be ready for the following results:

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

## 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 (cm <sup>3</sup> /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.

# NOTES

Area containing multiple horizontal dotted lines for taking notes.

# AIRSPRAY SPRAYING

Airspray spraying

Plural component pumps and machines

Fittings and air treatment

# M22 G HTi



The M22 G HTi is a gravity fed gun that delivers high finish quality and transfer efficiency with outstanding operator comfort. Available with one of 2 aircaps ; EP5 for hard to atomize coatings such as high solids and waterbornes or the E5 K HVLP for optimizing efficiency and HVLP compliant airspray.

### FEATURES

- New ergonomics and body design  
Reduced trigger effort
- Product fluid passages in stainless steel  
Unique aircap design
- High transfer efficiency
- Fine thread stuffing box
- E-Z adjust aircap
- Reduced number of components
- Choice of two 0.6 l cups available

### BENEFITS

- The gun is part of the operator's arm who can focus on the application and the spraying movement for an improved quality
- Compatible with water-based materials  
Unsurpassed finish quality with perfectly balanced fan
- Important product savings and environmental protection
- Fine control of the needle tightening torque for an improved sealing
- Allows adjustment without loosening the retaining ring
- Easy maintenance
- Polyacetal white cup for water and solvent-based materials  
PeHD grey cup for pre-catalysed or PU materials

### 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)	EP5: 2 - 3 E5 K HVLP : 1.5 - 2.5
Air consumption (m³/h)	EP5: 20.2 à 2.5 bar E5 K HVLP : 27.2 à 2 bar
Weight (with cup) (g)	680
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	EP5: 74% E5 K HVLP : 76%
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

### FITTINGS

Fitting	Air Inlet	M 1/4" NPS (+ M 1/4" BSP)
	Fluid inlet (gravity cup)	-

### AIRCAP E5 K HVLP

#### CONFIGURATION OF THE M22 G HTI WITH E5 K HVLP AIRCAP

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Cup	Part number
-	-	-	-	-	Polyacetal 0.6L (White)	136.130.100
-	-	-	-	-	PeHD 0.6L (Grey)	136.131.100
< 20 s	12 E5 K HVLP	1.2	128	22	Polyacetal 0.6L (White)	136.130.101
					PeHD 0.6L (Grey)	136.131.101
	13 E5 K HVLP	1.3	170	25	Polyacetal 0.6L (White)	136.130.102
					PeHD 0.6L (Grey)	136.131.102
20 - 40 s	14 E5 K HVLP	1.4	216	25	-	135.130.103
					Polyacetal 0.6L (White)	136.130.103
	15 E5 K HVLP	1.5	245	35	PeHD 0.6L (Grey)	136.131.103
					-	135.130.104
18 E5 K HVLP	1.8	260	36.5	Polyacetal 0.6L (White)	136.130.104	
				PeHD 0.6L (Grey)	136.131.104	
> 40 s	22 E5 K HVLP	2.2	280	38	-	135.130.105
					Polyacetal 0.6L (White)	136.130.105
	18 E5 K HVLP	1.8	260	36.5	PeHD 0.6L (Grey)	136.131.105
					Polyacetal 0.6L (White)	136.130.106
22 E5 K HVLP	2.2	280	38	PeHD 0.6L (Grey)	136.131.106	
				Polyacetal 0.6L (White)	136.130.106	



# M22 G HTi



## PROJECTORS FOR GRAVITY M22 G HTi E5 K HVLP

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m <sup>3</sup> /h)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Projector Type	Projector Part number	Nozzle	Aircap	Needle
< 20 s	1.2	27.2	128	22	12 E5 K HVLP	031.130.001	134.130.300	132.130.100	033.130.100
	1.3		170	25	13 E5 K HVLP	031.130.002	134.130.400	132.130.100	033.130.100
	1.4		216	31	14 E5 K HVLP	031.130.003	134.130.500	132.130.100	033.130.200
20 - 40 s	1.5		245	35	15 E5 K HVLP	031.130.004	134.130.600	132.130.100	033.130.200
	1.8		260	36.5	18 E5 K HVLP	031.130.005	134.130.700	132.130.100	033.130.200
> 40 s	2.2		280	38	22 E5 K HVLP	031.130.006	134.130.800	132.130.100	033.130.300 <sup>(1)</sup>

(1) polyacetal end needle

## AIRCAP EP5

### CONFIGURATION OF THE M22 G HTi WITH EP 5 AIRCAP

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Cup	Part number
-	-	-	-	-	Polyacetal 0.6L (White)	136.130.100
-	-	-	-	-	PeHD 0.6L (Grey)	136.131.100
< 20 s	12 EP 5	1.2	141	21	Polyacetal 0.6L (White)	136.130.111
		-	-	-	PeHD 0.6L (Grey)	136.131.111
	13 EP 5	1.3	176	22	Polyacetal 0.6L (White)	136.130.112
		-	-	-	PeHD 0.6L (Grey)	136.131.112
	14 EP 5	1.4	225	28	Polyacetal 0.6L (White)	136.130.113
		-	-	-	PeHD 0.6L (Grey)	136.131.113
20 - 40 s	15 EP 5	1.5	255	29	Polyacetal 0.6L (White)	136.130.114
		-	-	-	PeHD 0.6L (Grey)	136.131.114
	18 EP 5	1.8	278	30.5	Polyacetal 0.6L (White)	136.130.115
		-	-	-	PeHD 0.6L (Grey)	136.131.115
> 40 s	22 EP 5	2.2	280	32	Polyacetal 0.6L (White)	136.130.116
		-	-	-	PeHD 0.6L (Grey)	136.131.116



## PROJECTORS FOR GRAVITY M22 G HTi EP5

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m <sup>3</sup> /h)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Projector Type	Projector Part number	Nozzle	Aircap	Needle
< 20 s	1.2	20.2	141	21	12 EP 5	031.130.011	134.130.300	132.130.300	033.130.100
	1.3		176	22	13 EP 5	031.130.012	134.130.400	132.130.300	033.130.100
	1.4		225	28	14 EP 5	031.130.013	134.130.500	132.130.300	033.130.200
20 - 40 s	1.5		255	29	15 EP 5	031.130.014	134.130.600	132.130.300	033.130.200
	1.8		278	30.5	18 EP 5	031.130.015	134.130.700	132.130.300	033.130.200
> 40 s	2.2		280	32	22 EP 5	031.130.016	134.130.800	132.130.300	033.130.300 <sup>(1)</sup>

(1) polyacetal end needle

## MAINTENANCE KITS

Description	Part number
Seal kit	129.130.901
Repair kit (includes the seal kit)	129.130.902

# M22 G HPA



The M22 G HPA is a gravity fed gun that delivers outstanding finish quality with unsurpassed operator comfort. Recommended for hard to atomize coatings.

## FEATURES

New ergonomics and body design  
Reduced trigger effort

Product fluid passages in stainless steel  
Unique aircap design

Fine thread stuffing box

E-Z adjust aircap

Reduced number of components  
Choice of two 0.6 l cups available

## BENEFITS

The gun is part of the operator's arm who can focus on the application and the spraying movement for an improved quality

Compatible with water-based materials

Unsurpassed finish quality with perfectly balanced fan

Fine control of the needle tightening torque for an improved sealing

Allows adjustment without loosening the retaining ring

Easy maintenance

Polyacetal white cup for water and solvent-based materials  
PeHD grey cup for pre-catalysed or PU materials

## 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)	2 - 4
Air consumption (m <sup>3</sup> /h)	26.5
Weight (with cup) (g)	680
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	65%
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

## FITTINGS

Fitting	Air Inlet	M 1/4" NPS (+ M 1/4" BSP)
	Fluid inlet (gravity cup)	-

# M22 G HPA

## AIRCAP EN 5

### CONFIGURATION OF THE M22 G HPA GRAVITY

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Cup	Part number	
-	-	-	-	-	Polyacetal 0.6L (White)	136.135.100	
-	-	-	-	-	PeHD 0.6L (Grey)	136.136.100	
< 20 s	12 EN 5	1.2	137	21.5	Polyacetal 0.6L (White)	136.135.101	
					PeHD 0.6L (Grey)	136.136.101	
	13 EN 5	1.3	173	23.5	Polyacetal 0.6L (White)	136.135.102	
					PeHD 0.6L (Grey)	136.136.102	
	20 - 40 s	14 EN 5	1.4	234	27.5	-	135.135.103
						Polyacetal 0.6L (White)	136.135.103
15 EN 5		1.5	256	30	PeHD 0.6L (Grey)	136.136.103	
					-	135.135.104	
> 40 s	18 EN 5	1.8	282	31	Polyacetal 0.6L (White)	136.135.104	
					PeHD 0.6L (Grey)	136.136.104	
	22 EN 5	2.2	300	32	-	135.135.105	
					Polyacetal 0.6L (White)	136.135.105	
					PeHD 0.6L (Grey)	136.136.105	
					Polyacetal 0.6L (White)	136.135.106	
					PeHD 0.6L (Grey)	136.136.106	



### PROJECTORS FOR M22 G HPA SPRAY GUNS

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m³/h)	Fluid output M22 G (cc/mn)	Fan width at 20 cm (cm)	Projector		Nozzle	Aircap	Needle
					Type	Part number			
< 20 s	1.2	26.5	137	21.5	12 EN 5	031.135.001	134.130.300	132.130.200	033.130.100
< 20 s	1.3		173	23.5	13 EN 5	031.135.002	134.130.400	132.130.200	033.130.100
< 20 s	1.4		234	27.5	14 EN 5	031.135.003	134.130.500	132.130.200	033.130.200
20 - 40 s	1.5		256	30	15 EN 5	031.135.004	134.130.600	132.130.200	033.130.200
20 - 40 s	1.8		282	31	18 EN 5	031.135.005	134.130.700	132.130.200	033.130.200
> 40 s	2.2		300	32	22 EN 5	031.135.006	134.130.800	132.130.200	033.130.300 <sup>(1)</sup>

(1) polyacetal end needle

### SEAL KITS

Description	Part number
Seal kit	129.130.901
Repair kit (includes the seal kit)	129.130.902
22-27 needle end kit (x10)	129.140.090

### NEEDLE WITH POLYACETAL END FOR M22G NEEDLE WITH POLYACETAL END FOR M22 G HTI AND HPA



Description	Nozzles Size (mm)	Part number
Needle with polyacetal end	0.7 - 0.9 - 1.2 - 1.3	033.130.400
Needle with polyacetal end	1.4 - 1.5 - 1.8	033.130.500

# M22 G HPA GSP



The M22 HPA GSP has our outstanding ergonomic gun body design with a unique combination pressure/gravity cup for hard to atomize coatings such as high solids and waterbornes.

## FEATURES

- New ergonomics and body design  
Reduced trigger effort
- Pressure cup fitted with a safety valve set at 0,5 bar
- Specific design: the cup is only under pressure during application
- Product fluid passages in stainless steel
- Unique aircap design
- Fine thread stuffing box
- E-Z adjust aircap
- Reduced number of components

## BENEFITS

- The gun is part of the operator's arm who can focus on the application and the spraying movement for an improved quality
- Full security during application : cup pressure will never exceed 0.5 bar
- Full operator safety
- Compatible with water-based materials
- Unsurpassed finish quality with perfectly balanced fan
- Fine control of the needle tightening torque for an improved sealing
- Allows adjustment without loosening the retaining ring
- Easy maintenance

## 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)	2 - 4
Maximum cup air pressure (bar)	0.5
Air consumption (m <sup>3</sup> /h)	26.5
Weight (with cup) (g)	710
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	65%
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

## FITTINGS

Fitting	Air Inlet	M 1/4" NPS (+ M 1/4" BSP)
	Fluid inlet (gravity cup - under pressure)	-

## AIRCAPS EN5



## CONFIGURATION OF THE M22 G HPA GSP

Fluid viscosity	Projector type	Nozzles Size (mm)	Fan width at 20 cm (cm)	Cup	Part number
< 3000 cps	15 EN5	1.5	30	PeHD 0.6L (grey)	136.138.104
	18 EN5	1.8	31	PeHD 0.6L (grey)	136.138.105
	22 EN5	2.2	32	PeHD 0.6L (grey)	136.138.106

## PROJECTORS FOR M22 G HPA GSP SPRAY GUNS

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m <sup>3</sup> /h)	Fan width at 20 cm (cm)	Projector Type	Projector Part number	Nozzle	Aircap	Needle
20 - 40 s	1,5	26,5	30	15 EN 5	031.135.004	134.130.600	132.130.200	033.130.200
20 - 40 s	1,8	26,5	31	18 EN 5	031.135.005	134.130.700	132.130.200	033.130.200
> 40 s	2,2	26,5	32	22 EN 5	031.135.006	134.130.800	132.130.200	033.130.300 <sup>(1)</sup>

(1) polyacetal end needle

## SEAL KITS

Description	Part number
Seal kit	129.130.901
Repair kit (includes the seal kit)	129.130.902
22-27 needle end kit (x10)	129.140.090

# FPro P



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.

### FEATURES

Restrictor technology  
**(SAMES KREMLIN patent)**

Vortex technology  
**(SAMES KREMLIN patent)**

New compact handle and soft trigger

### BENEFITS

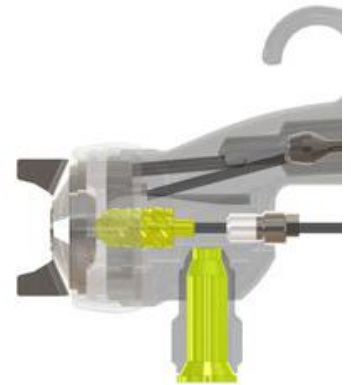
The paint is pre-atomized and slowed down, so the user can reach an unrivalled finishing Quality and increase Transfer Efficiency

Gives a swirl effect to the fan, which highly increases the paint homogeneity on the part

FPro P gun fits all the morphologies, trigger stress is the lowest on the Market, and allows to reduce the tiredness at the end of the day

## VORTEX TECHNOLOGY

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.



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 (m <sup>3</sup> /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

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

**AVAILABLE GUN CONFIGURATIONS**

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

**AVAILABLE PROJECTORS CONFIGURATIONS**

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

# FPro P WBE



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

FEATURES	BENEFITS
Product fluid passages in stainless steel	Compatible with waterbased materials
Treated reinforced metallic nozzle	Longer nozzle lifetime
Polyurethane needle tip and treated metal nozzle	Soft contact between nozzle and needle, reduce the wear caused by the product abrasiveness
Restrictor Technology (Sames Kremlin patent)	The paint is pre-atomized and slowed down, so the user can reach an unrivalled finishing Quality and increase Transfer Efficiency

SPECIFICATIONS	
Sprayed materials	Enamels, Waterbase abrasive coatings
Body of the gun	Anodized Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	2.5 - 3.5
Air consumption (m <sup>3</sup> /h)	17.5 - 36.1
Weight (g)	480
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	66
Nozzle	Reinforced Treated Stainless Steel
Needle	Polyurethane
Wetted parts	Stainless Steel / Polyurethane

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

### AVAILABLE GUN CONFIGURATIONS

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

### AVAILABLE PROJECTORS CONFIGURATIONS

Spray Technology	Projector Name	Projector Part Number	Nozzle size (mm)	Fluid output (cc/min)	Air Consumption (m <sup>3</sup> /h)	Fan width at 20cm	Aircap PN	Nozzle PN	Needle PN
CONV	Projecteur FPro P CONV-07-Lwb	131.774.407	0,7	200	28	L: 30cm - 40cm		134.135.100	
	Projecteur FPro P CONV-09-Lwb	131.774.409	0,9	250	30	L: 30cm - 40cm		134.135.200	
	Projecteur FPro P CONV-12-Lwb	131.774.412	1,2	300	32,5	L: 30cm - 40cm	132.774.400	134.135.300	033.148.100
	Projecteur FPro P CONV-15-Lwb	131.774.415	1,5	350	34	L: 30cm - 40cm		134.135.600	
	Projecteur FPro P CONV-18-Lwb	131.774.418	1,8	400	36,1	L: 30cm - 40cm		134.135.700	
	Projecteur FPro P CONV-23-Lwb	131.774.423	2,3	400	17,5	L: 30cm - 40cm	132.774.450	134.136.100	

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

### MAIN SPARE PARTS

Description	Part number
Needle-end (pack of 10)	129.417.005
Restrictor 0.8mm (0.031 inches)	129.140.023
Restrictor 0.9mm (0.035 inches)	129.140.024
Restrictor 1.0mm (0.039 inches)	129.140.025
Restrictor 1.2mm (0.047 inches)	129.140.026
Restrictor 1.4mm (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 Lock P seals set	129.130.901
FPro Lock P maintenance set	129.760.901

# 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.

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## FEATURES

- Restrictor technology (**SAMES KREMLIN** patent)
- Vortex technology (**SAMES KREMLIN** patent)
- Locked Settings

## BENEFITS

- The paint is pre-atomized and slowed down, so the user can reach an unrivalled finishing Quality and increase Transfer Efficiency
- Gives a swirl effect to the fan, which highly increases the paint homogeneity on the part
- Ensure a steady finishing result on the assembly line and highly reduce the gun weight to prevent from RSI

## VORTEX TECHNOLOGY

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.



## 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

## FITTINGS

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

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

## AVAILABLE PROJECTORS CONFIGURATIONS

Spray Technology	Projector Name	Projector Part Number	Nozzle size (mm)	Fluid output (cc/min)	Fan width at 20cm	Aircap PN	Nozzle PN	Needle PN
HVLP	FPro Lock P HVLP-07-Lva	131.767.407	0,7	200	L: 30cm - 40cm	132.767.400	134.130.100	033.140.100
	FPro Lock P HVLP-09-Lva	131.767.409	0,9	250	L: 30cm - 40cm		134.130.200	
	FPro Lock P HVLP-12-Lva	131.767.412	1,2	300	L: 30cm - 40cm		134.130.300	
	FPro Lock P HVLP-15-Lva	131.767.415	1,5	350	L: 30cm - 40cm		134.130.600	
	FPro Lock P HVLP-18-Lva	131.767.418	1,8	400	L: 30cm - 40cm		134.130.700	
	FPro Lock P HVLP-07-XLva	131.767.507	0,7	200	XL: > 40cm	132.767.500	134.130.100	033.140.100
	FPro Lock P HVLP-09-XLva	131.767.509	0,9	250	XL: > 40cm		134.130.200	
	FPro Lock P HVLP-12-XLva	131.767.512	1,2	300	XL: > 40cm		134.130.300	
	FPro Lock P HVLP-15-XLva	131.767.515	1,5	350	XL: > 40cm		134.130.600	
	FPro Lock P HVLP-18-XLva	131.767.518	1,8	400	XL: > 40cm		134.130.700	
LVLP	FPro Lock P LVLP-07-Lva	131.760.407	0,7	200	L: 30cm - 40cm	132.760.400	134.130.100	033.140.100
	FPro Lock P LVLP-09-Lva	131.760.409	0,9	250	L: 30cm - 40cm		134.130.200	
	FPro Lock P LVLP-12-Lva	131.760.412	1,2	300	L: 30cm - 40cm		134.130.300	
	FPro Lock P LVLP-15-Lva	131.760.415	1,5	350	L: 30cm - 40cm		134.130.600	
	FPro Lock P LVLP-18-Lva	131.760.418	1,8	400	L: 30cm - 40cm		134.130.700	
	FPro Lock P LVLP-07-XLva	131.760.507	0,7	200	XL: > 40cm	132.760.500	134.130.100	033.140.100
	FPro Lock P LVLP-09-XLva	131.760.509	0,9	250	XL: > 40cm		134.130.200	
	FPro Lock P LVLP-12-XLva	131.760.512	1,2	300	XL: > 40cm		134.130.300	
	FPro Lock P LVLP-15-XLva	131.760.515	1,5	350	XL: > 40cm		134.130.600	
	FPro Lock P LVLP-18-XLva	131.760.518	1,8	400	XL: > 40cm		134.130.700	
CONV	FPro Lock P CONV-07-Lva	131.764.407	0,7	200	L: 30cm - 40cm	132.764.400	134.130.100	033.140.100
	FPro Lock P CONV-09-Lva	131.764.409	0,9	250	L: 30cm - 40cm		134.130.200	
	FPro Lock P CONV-12-Lva	131.764.412	1,2	300	L: 30cm - 40cm		134.130.300	
	FPro Lock P CONV-15-Lva	131.764.415	1,5	350	L: 30cm - 40cm		134.130.600	
	FPro Lock P CONV-18-Lva	131.764.418	1,8	400	L: 30cm - 40cm		134.130.700	
	FPro Lock P CONV-07-XLva	131.764.507	0,7	200	XL: > 40cm	132.764.500	134.130.100	033.140.100
	FPro Lock P CONV-09-XLva	131.764.509	0,9	250	XL: > 40cm		134.130.200	
	FPro Lock P CONV-12-XLva	131.764.512	1,2	300	XL: > 40cm		134.130.300	
	FPro Lock P CONV-15-XLva	131.764.515	1,5	350	XL: > 40cm		134.130.600	
	FPro Lock P CONV-18-XLva	131.764.518	1,8	400	XL: > 40cm		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 0.8mm (0.031 inches)	129.140.023
Restrictor 0.9mm (0.035 inches)	129.140.024
Restrictor 1.0mm (0.039 inches)	129.140.025
Restrictor 1.2mm (0.047 inches)	129.140.026
Restrictor 1.4mm (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 Lock P seals set	129.130.901
FPro Lock P maintenance set	129.760.901

## PACK FPro P & FPro LOCK P



FPro P and FPro Lock P Packs are available in 3 spray technologies:

- HVLP (High Volume Low Pressure), previously "HTI K HVLP"
- LVLP (Low Volume Low Pressure), previously "HTI"
- CONV (Conventional), previously "HPA"

For each technology, there are 7 Packs available :

- Pack Duo: a FPro P gun and its hoses (no paint feeding device), allies the lightness of SAMES KREMLIN new gun and new hoses
  - Pack Easy 02: ideal to have a complete solution ready to spray and very light for a reduced investment, includes a FPro P gun and its hoses plus a small Airspray tank
  - Pack Easy 10: the easiest solution to use and to maintain, includes a FPro P gun and its hoses plus a 10L top output Airspray tank (no agitator) with an air regulator for the gun
  - Pack Easy 20: the easiest solution to use and to maintain, includes a FPro P gun and its hoses plus a 20L top output Airspray tank (no agitator) with an air regulator for the gun
  - Pack Productivity: the best solution for intense production application, includes a FPro P gun and its hoses plus a diaphragm pump wall-mounted with its 3 regulators
  - Pack Convenience: the best solution for flexibility with a sustained productivity, includes a FPro P gun and its hoses plus a diaphragm pump on a tripod with its 3 regulators
  - Pack Impact: a modified "Pack Convenience" without the regulator, includes a FPro P gun and its hoses plus a diaphragm pump on a tripod with 2 regulators at a very competitive price
- There are also 2 packs dedicated to Glue spraying:
- Pack Glue: complete solution with all components dedicated to Glue spraying, includes a FPro P Conventional gun with a special projector created to spray Glue, Air hose, Polyamide Fluid hose that resists to Waterbase white glues and a 4L bottom output Airspray tank, the best solution to feed glue
  - Pack Glue II (new): a semi-solution, like "Pack Glue" but without the Airspray Tank, includes a FPro P Conventional gun with a special projector created to spray Glue, Air hose and polyamide Fluid hose, so it can be plugged on any feeding device

# PACK FPro P

Spray Technology	Kit Part Number	Pack Name	Gun and Projector included	Paint Feed	Hoses	Hose Sleeve	Regulators
	151.280.160	Pack Duo «FPro P HVLP + Hoses»	FPro P HVLP-09-XLvb	-	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	-
	152.600.216	Pack Easy 02 «FPro P HVLP + Airspray Tank 2L»	FPro P HVLP-09-XLvb	Airspray Tank 2L Aluminum	1.6m Air - ID8mm 1.6m Fluid - ID3.2mm	NO	1 (Ref 152.300.080)
	152.600.207	Pack Easy 10 «FPro P HVLP + Airspray Tank 10L «	FPro P HVLP-12-XLvb	Airspray Tank SST 10L Top Output no agitator	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	1 (Ref 152.300.080)
HVLP	152.600.208	Pack Easy 20 «FPro P HVLP + Airspray Tank 20L «	FPro P HVLP-12-XLvb	Airspray Tank SST 20L Top Output no agitator	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	1 (Ref 152.300.080)
	151.280.170	Pack Productivity «FPro P HVLP + Wall PMP150»	FPro P HVLP-09-XLvb	PMP150 Wall mounted with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)
	151.280.200	Pack Convenience 2R «FPro P HVLP + Tripod PMP150»	FPro P HVLP-09-XLvb	PMP150 Pratik with 2 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	2 (on the pump)
	151.280.180	Pack Convenience «FPro P HVLP + Tripod PMP150»	FPro P HVLP-09-XLvb	PMP150 Pratik with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)
	151.280.130	Pack Duo «FPro P LVLP + Hoses»	FPro P LVLP-12-XLvb	-	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	-
	152.600.217	Pack Easy 02 «FPro P LVLP + Airspray Tank 2L»	FPro P LVLP-09-XLvb	Airspray Tank 2L Aluminum	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	NO	1 (Ref 152.300.080)
	152.600.209	Pack Easy 10 «FPro P LVLP + Airspray Tank 10L «	FPro P LVLP-12-XLvb	Airspray Tank SST 10L Top Output no agitator	1.6m Air - ID8mm 1.6m Fluid - ID3.2mm	Yes	1 (Ref 152.300.080)
LVLP	152.600.210	Pack Easy 20 «FPro P LVLP + Airspray Tank 20L «	FPro P LVLP-12-XLvb	Airspray Tank SST 20L Top Output no agitator	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	1 (Ref 152.300.080)
	151.280.140	Pack Productivity «FPro P LVLP + Wall PMP150»	FPro P LVLP-12-XLvb	PMP150 Wall mounted with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)
	151.280.205	Pack Convenience 2R «FPro P LVLP + Tripod PMP150»	FPro P LVLP-12-XLvb	PMP150 Pratik with 2 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	2 (on the pump)
	151.280.150	Pack Convenience «FPro P LVLP + Tripod PMP150»	FPro P LVLP-12-XLvb	PMP150 Pratik with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)
	151.280.100	Pack Duo «FPro P CONV + Hoses»	FPro P CONV-15-Lvb	-	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	-
	152.600.218	Pack Easy 02 «FPro P CONV + Airspray Tank 2L»	FPro P CONV-09-Lvb	Airspray Tank 2L Aluminum	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	NO	1 (Ref 152.300.080)
	152.600.211	Pack Easy 10 «FPro P CONV + Airspray Tank 10L «	FPro P CONV-15-Lvb	Airspray Tank SST 10L Top Output no agitator	1.6m Air - ID8mm 1.6m Fluid - ID3.2mm	Yes	1 (Ref 152.300.080)
	152.600.212	Pack Easy 20 «FPro P CONV + Airspray Tank 20L «	FPro P CONV-15-Lvb	Airspray Tank SST 20L Top Output no agitator	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	1 (Ref 152.300.080)
CONV	151.280.110	Pack Productivity «FPro P CONV + Wall PMP150»	FPro P CONV-15-Lvb	PMP150 Pratik with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)
	151.280.210	Pack Convenience 2R «FPro P CONV + Tripod PMP150»	FPro P CONV-15-Lvb	PMP150 Pratik with 2 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	2 (on the pump)
	151.280.120	Pack Convenience «FPro P CONV + Tripod PMP150»	FPro P CONV-15-Lvb	PMP150 Pratik with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)
	152.600.130	Pack Glue «FPro P CONV + 4L Airspray Tank»	FPro P CONV-18-Mgb	Airspray Tank SST 4L Bottom Output no agitator	5m Air - ID8mm 5m Polyamid Fluid	Yes	1 (Ref 152.300.080)
	151.280.300	Pack Glue «FPro P CONV + 4L Airspray Tank»	FPro P CONV-18-Mgb	-	5m Air - ID8mm 5m Polyamid Fluid	Yes	-
	151.280.125	Pack Abrasive «FPro P CONV + PMP150 E»	FPro P CONV-15-Lvb	PMP150 E Wall mounted	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	1 for the gun 0 for the pump

# PACK FPro LOCK P

Spray Technology	Kit Part Number	Pack Name	Gun and Projector included	Paint Feed	Hoses	Hose Sleeve	Regulators	Purpose
HVLP	151.280.060	Pack Duo «FPro Lock P HVLP + Hoses»	FPro Lock P HVLP-12-XLva	-	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	-	Gun with hoses only, Light & Flexible
	152.600.213	Pack Easy 02 «FPro Lock P HVLP + Airspray Tank 2L»	FPro Lock P HVLP-09-Lva	Airspray Tank 2L Aluminum	1.6m Air - ID8mm 1.6m Fluid - ID3.2mm	No	1 (Ref 152.300.080)	Alternative offer to Gravity guns
	152.600.201	Pack Easy 10 «FPro Lock P HVLP + Airspray Tank 10L»	FPro Lock P HVLP-12-Lva	Airspray Tank SST 10L Top Output no agitator	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	1 (Ref 152.300.080)	Easy Small Production
	152.600.202	Pack Easy 20 «FPro Lock P HVLP + Airspray Tank 20L»	FPro Lock P HVLP-12-Lva	Airspray Tank SST 20L Top Output no agitator	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	1 (Ref 152.300.080)	Easy Medium Production
	151.280.070	Pack Productivity «FPro Lock P HVLP + Wall PMP150»	FPro Lock P HVLP-12-XLva	PMP150 Wall mounted with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)	Solution for Productivity
	151.280.215	Pack Convenience 2R «FPro Lock P HVLP + Tripod PMP150»	FPro Lock P HVLP-12-XLva	PMP150 Pratik with 2 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	2 (on the pump)	Basic solution for Convenience
	151.280.080	Pack Convenience «FPro Lock P HVLP + Tripod PMP150»	FPro Lock P HVLP-12-XLva	PMP150 Pratik with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)	Premium solution for Convenience
LVLP	151.280.030	Pack Duo «FPro Lock P LVLP + Hoses»	FPro Lock P HVLP-12-XLva	-	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	-	Gun with hoses only, Light & Flexible
	152.600.214	Pack Easy 02 «FPro Lock P LVLP + Airspray Tank 2L»	FPro Lock P LVLP-09-Lva	Airspray Tank 2L Aluminum	1.6m Air - ID8mm 1.6m Fluid - ID3.2mm	No	1 (Ref 152.300.080)	Alternative offer to Gravity guns
	152.600.203	Pack Easy 10 «FPro Lock P LVLP + Airspray Tank 10L»	FPro Lock P LVLP-12-Lva	Airspray Tank SST 10L Top Output no agitator	1.6m Air - ID8mm 1.6m Fluid - ID3.2mm	Yes	1 (Ref 152.300.080)	Easy Small Production
	152.600.204	Pack Easy 20 «FPro Lock P LVLP + Airspray Tank 20L»	FPro Lock P LVLP-12-Lva	Airspray Tank SST 20L Top Output no agitator	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	1 (Ref 152.300.080)	Easy Medium Production
	151.280.040	Pack Productivity «FPro Lock P LVLP + Wall PMP150»	FPro Lock P LVLP-12-XLva	PMP150 Wall mounted with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)	Solution for Productivity
	151.280.220	Pack Convenience 2R «FPro Lock P LVLP + Tripod PMP150»	FPro Lock P LVLP-12-XLva	PMP150 Pratik with 2 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	2 (on the pump)	Basic solution for Convenience
	151.280.050	Pack Convenience «FPro Lock P LVLP + Tripod PMP150»	FPro Lock P LVLP-12-XLva	PMP150 Pratik with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)	Premium solution for Convenience
CONV	151.280.000	Pack Duo «FPro Lock P CONV + Hoses»	FPro Lock P CONV-15-XLva	-	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	-	Gun with hoses only, Light & Flexible
	152.600.215	Pack Easy 02 «FPro Lock P CONV + Airspray Tank 2L»	FPro Lock P CONV-15-Lva	Airspray Tank 2L Aluminum	1.6m Air - ID8mm 1.6m Fluid - ID3.2mm	No	1 (Ref 152.300.080)	Alternative offer to Gravity guns
	152.600.205	Pack Easy 10 «FPro Lock P CONV + Airspray Tank 10L»	FPro Lock P CONV-15-XLva	Airspray Tank SST 10L Top Output no agitator	1.6m Air - ID8mm 1.6m Fluid - ID3.2mm	Yes	1 (Ref 152.300.080)	Easy Small Production
	152.600.206	Pack Easy 20 «FPro Lock P CONV + Airspray Tank 20L»	FPro Lock P CONV-15-XLva	Airspray Tank SST 20L Top Output no agitator	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	1 (Ref 152.300.080)	Easy Medium Production
	151.280.010	Pack Productivity «FPro Lock P CONV + Wall PMP150»	FPro Lock P CONV-15-XLva	PMP150 Pratik with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)	Solution for Productivity
	151.280.225	Pack Convenience 2R «FPro Lock P CONV + Tripod PMP150»	FPro Lock P CONV-15-XLva	PMP150 Pratik with 2 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	2 (on the pump)	Basic solution for Convenience
	151.280.020	Pack Convenience «FPro Lock P CONV + Tripod PMP150»	FPro Lock P CONV-15-XLva	PMP150 Pratik with 3 regulators and suction rod	7.5m Air - ID8mm 7.5m Fluid - ID6.5mm	Yes	3 (on the pump)	Premium solution for Convenience

# M22 A HPA



The M22 A HPA is a suction fed gun with unsurpassed ergonomics designed for hard to atomize coatings. Fine air output adjustment at the handle.

### FEATURES

- New ergonomics and body design
- Reduced trigger effort
- Unique aircap design
- Fine thread stuffing box
- E-Z adjust aircap
- Reduced number of components

### BENEFITS

- The gun is part of the operator's arm who can focus on the application and the spraying movement for an improved quality
- Unsurpassed finish quality with perfectly balanced fan
- Fine control of the needle tightening torque for an improved sealing
- Allows adjustment without loosening the retaining ring
- Easy maintenance

### 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 - 3
Air consumption (m <sup>3</sup> /h)	23 - 29.7
Weight (with cup) (g)	980
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	62%
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel/aluminum

### FITTINGS

Fitting	Air Inlet	M 1/4" NPS (+ M 1/4" BSP)
	Fluid inlet (SM6 suction cup 1l)	M 3/8" NPS

### AIRCAP EN 2

#### CONFIGURATION OF THE M22 A HPA

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Cup	Part number
< 20 s	12 EN 2	1.2	100	16	SM6 (1 L) (Aluminum)	136.145.200
20 - 40 s	15 EN 2	1.5	223	26.5		136.145.211
	18 EN 2	1.8	270	27		136.145.212
						136.145.213



### PROJECTORS FOR SUCTION-FED M22 A HPA GUNS

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m <sup>3</sup> /h)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Type	Projector Part number	Nozzle	Aircap	Treated needle
< 20 s	1.2	23	100	16	12 EN 2	031.145.011	134.130.300	132.145.100	033.140.100
20 - 40 s	1.5	27	223	26.5	15 EN 2	031.145.012	134.130.600	132.145.100	033.140.200
	1.8	29.7	270	27	18 EN 2	031.145.013	134.130.700	132.145.100	033.140.200
> 40 s	2.3	19	320	30	23 ER 1	031.145.030	134.131.100	132.145.800	033.140.300
	2.7	20	340	32	27 ER 1	031.145.031	134.131.200	132.145.800	033.140.300

### SEAL KITS

Description	Part number
Seal kit	129.130.901
Repair kit (includes the seal kit)	129.140.902

# M22 A BasiK HPA

The M22 A BasiK HPA is our economy gun with unsurpassed ergonomics. It is designed for conventional suction fed spraying.



### FEATURES

- Polished aluminum body
- E-Z adjust aircap
- New design of the BA aircap

### BENEFITS

- Easy and quick maintenance
- Allows adjustment without loosening the retaining ring
- Spraying quality guaranteed

### SPECIFICATIONS

Sprayed materials	Virtually all coatings
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 (m <sup>3</sup> /h)	24
Weight (with cup) (g)	1000
Transfer efficiency in % (EN 13966-1)	62
Maximum Fluid Temperature (°C)	50
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel, aluminum

### FITTINGS

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

## AIRCAP BA2

### CONFIGURATION OF THE M22 A BASIK HPA

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Cup	Part number
-	-	-	-	-	SM6 (1L)	136.147.200
20 - 40 s	15 BA2	1.5	220	24.5	SM6 (1L)	136.147.201
	18 BA2	1.8	300	25	SM6 (1L)	136.147.202



### PROJECTORS FOR M22 A BASIK HPA

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m <sup>3</sup> /h)	Fluid output M22 G (cc/mn)	Fan width at 20 cm (cm)	Projector			Nozzle	Aircap	Needle
					Type	Part number	Part number			
20-40	1.5	24	220	24.5	15 BA 2	031.147.001	134.130.600	132.147.100	033.140.200	
20-40	1.8	24	300	25	18 BA 2	031.147.002	134.130.700	132.147.100	033.140.200	

### SEAL KITS

Description	Part number
Seal kit	129.130.901
Repair kit (includes the seal kit)	129.140.902

# M22 G Basik HPA

Multi-purpose economy gun with good spraying



## FEATURES

Polished aluminum body
Product fluid passages in stainless steel
New design of the BA aircap
E-Z adjust aircap
0.6 l polyacetal cup

## BENEFITS

Easy and quick maintenance
Compatible with most material
Spraying quality guaranteed
Allows adjustment without loosening the retaining ring
Can be quickly cleaned

## SPECIFICATIONS

Sprayed materials	Varnishes, lacquers, stains, polyurethans, two-component
Body of the gun	Polished Forged Aluminum
Maximum air inlet pressure (bar)	6
Recommended atomization air pressure at the handle (bar)	2
Air consumption (m <sup>3</sup> /h)	28
Weight (with cup) (g)	690
Maximum Fluid Temperature (°C)	50
Transfer efficiency in % (EN 13966-1)	65
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel/Aluminum

## FITTINGS

Fitting	Air Inlet	M 1/4" NPS (+ M 1/4" BSP)
	Fluid inlet (gravity cup)	-

## AIRCAP BA5

### CONFIGURATION OF THE M22 G BASIK HPA

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Cup	Part number
-	-	-	-	-	Polyacetal 0.6L (white)	136.137.100
20 - 40 s	18 BA5	1.8	280	31	Polyacetal 0.6L (white)	136.137.110



## PROJECTORS FOR M22 G BASIK HPA

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m <sup>3</sup> /h)	Fluid output M22 G (cc/mn)	Fan width at 20 cm (cm)	Projector Type	Projector Part number	Nozzle	Aircap	Needle
20-40	1,8	28	280	31	18 BA 5	031.137.010	134.130.700	132.137.300	033.130.200

## SEAL KITS

Description	Part number
Seal kit	129.130.901
Repair kit (includes the seal kit)	129.130.902



**AIRCAPS FOR M22 AIRSPRAY GUNS**

**AIRCAPS FOR HTI AND HTV AIRSPRAY GUNS**



	<b>E3 K HVLP</b>	<b>E5 K HVLP</b>	<b>EP 3</b>	<b>EP 5</b>	<b>EV 3 K HVLP</b>
Guns	M22 P HTi	M22 G HTi	M22 P HTI	M22 G HTi	M22 P HTV
Fan shape	Flat	Flat	Flat	Flat	Flat swirling fan
Atomization Type	HTi	HTi	HTi	HTi	HTi
Atomization quality	Excellent	Excellent	Excellent	Excellent	Excellent
Transfer efficiency	76%	76%	74%	74%	65%
Air consumption @ 2 bar	23 - 33 m <sup>3</sup> /h	27.2 m <sup>3</sup> /h	20.2 - 29 m <sup>3</sup> /h	20.2 m <sup>3</sup> /h	24 m <sup>3</sup> /h
Nozzle size	07/18	12/22	07/18	12/22	04/06

**AIRCAPS FOR HPA AIRSPRAY GUNS**



	<b>EN 5</b>	<b>EN 2</b>	<b>EN 3</b>
Guns	M22 G HPA	M22 A HPA	M22 P HPA
Fan shape	Flat	Flat	Flat
Atomization Type	HPA	HPA	HPA
Atomization quality	Very Good	Very Good	Very Good
Transfer efficiency	65%	62%	63%
Air consumption @ 2 bar	26.5 m <sup>3</sup> /h	23 - 29.7 m <sup>3</sup> /h	28 - 36.1 m <sup>3</sup> /h
Nozzle size	12/22	12/18	07/18

**AIRCAPS FOR HPA BASIK AIRSPRAY GUNS**



	<b>BA 5</b>	<b>BA 2</b>	<b>BA 3</b>
Guns	M22 G Basik HPA	M22 A Basik HPA	M22 P Basik HPA
Fan shape	Flat	Flat	Flat
Atomization Type	HPA	HPA	HPA
Atomization quality	Good	Good	Good
Transfer efficiency	65%	62%	63%
Air consumption @ 2 bar	28 m <sup>3</sup> /h	24 m <sup>3</sup> /h	32 m <sup>3</sup> /h
Nozzle size	18	15/18	09/12/15/18

**AIRCAPS FOR HPA AIRSPRAY GUNS**



	<b>ER1</b>	<b>ER3</b>	<b>ER4</b>	<b>ER9</b>	<b>ES3</b>	<b>ES9</b>	<b>EG1</b>
Gun designation	M22 A HPA	M22 P HPA	M22 P HPA	M22 P HPA	M22 P HPA	M22 P HPA	M22 P HPA
Fan shape	Flat	Flat	Flat	Round	Flat	Round	Flat
Atomization Type	HPA	HPA	HPA	HPA	HPA	HPA	HPA
Atomization quality	Very good	Very good	Very good	Excellent	Good	Very good	Excellent
Nozzle size	23/27	23/27	23/27	23/27	33/40	33/40	15/18

Airspray spraying

Plural component pumps and machines

Fittings and air treatment

# S3 G HTi



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

## FEATURES

- New ergonomics and body design
- Unique aircap design
- In-line air valve assembly
- 1 finger trigger
- E-Z adjust aircap
- PeHD cup

## BENEFITS

- The gun is part of the operator's arm who can focus on the application and the spraying movement for an improved quality
- Unsurpassed finish quality with perfectly balanced fan
- Fine adjustment and long lasting components
- For an improved application accuracy
- Allows adjustment without loosening the retaining ring
- Compatible with water-based materials

## 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
Air consumption (m <sup>3</sup> /h)	7.5 <sup>(1)</sup>
Weight (with cup) (g)	515
Maximum Fluid Temperature (°C)	50
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

(1) (0,7 bar at the aircap - 2 bar at the handle)

## FITTINGS

Fitting	Air Inlet	M 1/4" NPS
	Fluid inlet (gravity cup)	-

## AIRCAP ESG K HVLP

### CONFIGURATION OF THE S3 G HTI SPRAY GUN

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Cup	Projector Part number
-	-	-	-	-	-	136.155.100
14 - 20s	08 ESG K HVLP	0.8	68	14	PeHD 0.25L (grey)	136.155.112
14 - 20s	10 ESG K HVLP	1.0	100	21		136.155.113
20 - 30s	12 ESG K HVLP	1.2	130	24		136.155.114



## PROJECTORS FOR S3 G HTI SPRAY GUNS

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m <sup>3</sup> /h)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Projector Type	Projector Part number	Nozzle	Aircap	Needle
<20 s	0.8	7.5	68	14	08 ESG K HVLP	031.150.012	134.630.400	132.150.200	033.150.100
14 - 20s	1.0	7.5	100	21	10 ESG K HVLP	031.150.013	134.630.100	132.150.200	033.150.500
20 - 40s	1.2	7.5	130	24	12 ESG K HVLP	031.150.014	134.630.200	132.150.200	033.150.200

## SEAL KITS

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

# S3 G HPA

The S3 G HPA is our most compact gun designed for small hands and tight areas where touch up or shading is required.



### FEATURES

New ergonomics and body design
Reduced air consumption
In-line air valve assembly
2 different projectors : AM and PGL
1 finger trigger
E-Z adjust aircap
PeHD cup

### BENEFITS

The gun is part of the operator's arm who can focus on the application and the spraying movement for an improved quality
Energy savings
Fine adjustment and long lasting components
2 types of application possible: AM (flat fan) and PGL (special line round fan)
For an improved application accuracy
Allows adjustment without loosening the retaining ring
Compatible with water-based materials

### 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)	8-10
Weight (with cup) (g)	515
Maximum Fluid Temperature (°C)	50
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

### FITTINGS

Fitting	Air Inlet	M 1/4" NPS
	Fluid inlet (gravity cup)	-

### AIRCAP AM PGL

#### CONFIGURATION OF THE S3 G HPA SPRAY GUN

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Cup	Part number
-	-	-	-	-	PeHD 0,25L (grey)	136.155.100
14-20 s	08 AM	0.8	86	15	PeHD 0,25L (grey)	136.155.108
14-20 s	08 AM	0.8	86	15	Polyacetal 0,25 l (white)	136.156.108
20-30 s	10 AM	1.0	142	22	PeHD 0,25l (grey)	136.155.109
30-40 s	12 AM	1.2	180	24.5	PeHD 0,25l (grey)	136.155.110
20-30 s	10 PGL	1.0	148	13	PeHD 0,25l (grey)	136.155.107



### PROJECTORS FOR S3G HPA SPRAY GUNS

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m³/h)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Projector Type	Projector Part number	Nozzle	Aircap	Needle
<20 s	0.8	12.9	86	15	08 AM	031.150.008	134.630.400	132.630.400	033.150.100
	1.0	12.9	142	17	10 AM	031.150.009	134.630.100	132.630.400	033.150.500
	1.2	12.9	180	19	12 AM	031.150.010	134.630.200	132.630.400	033.150.200
20-30 s	1.0	4	148	13	10 PGL	031.150.007	134.640.100	132.640.100	033.150.300

### SEAL KITS

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

# S3 A HPA



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

### FEATURES

- New ergonomics and body design
- Reduced air consumption
- In-line air valve assembly
- 2-finger trigger
- E-Z adjust aircap
- PeHD cup

### BENEFITS

- The gun is part of the operator's arm who can focus on the application and the spraying movement for an improved quality
- Energy savings
- Fine adjustment and long lasting components
- Improved comfort for more productivity
- Allows adjustment without loosening the retaining ring
- Compatible with water-based materials

### 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 (m <sup>3</sup> /h)	8-11
Weight (with cup) (g)	595
Maximum Fluid Temperature (°C)	50
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

### FITTINGS

Fitting	Air Inlet	M 1/4" NPS
	Fluid inlet (0.25l PeHD suction cup)	M 1/4" NPS

### AIRCAP AM AY

#### CONFIGURATION OF THE S3 A HPA SPRAY GUN

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Air consumption (m <sup>3</sup> /h)	Fan width at 20 cm (cm)	Cup	Part number
14-20 s	08 AM	0.8	86	12.9	15	PeHD 0.25l (grey)	136.150.200
20-30 s	10 AM	1.0	132	12.9	17		136.150.208
30-40 s	12 AM	1.2	159	12.9	19		136.150.209
	15 AY	1.5	180	14.1	20		136.150.210
							136.150.211



#### PROJECTORS FOR S3 A HPA AIRSPRAY GUNS

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Air consumption (m <sup>3</sup> /h)	Projector Type	Projector Part number	Nozzle	Aircap	Needle
<20 s	0.8	86	15	12.9	08 AM	031.150.008	134.630.400	132.630.400	033.150.100
	1.0	132	17	12.9	10 AM	031.150.009	134.630.100	132.630.400	033.150.500
	1.2	159	19	12.9	12 AM	031.150.010	134.630.200	132.630.400	033.150.200
20-40 s	1.5	180	20	14.1	15 AY	031.150.011	134.630.300	132.630.200	033.150.400

### SEAL KITS

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

# S3 P HTi



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

### FEATURES

- New ergonomics and body design
- Unique aircap design
- E-Z adjust aircap
- In-line air valve assembly
- 2-finger trigger

### BENEFITS

- The gun is part of the operator's arm who can focus on the application and the spraying movement for an improved quality
- Unsurpassed finish quality with perfectly balanced fan
- Allows adjustment without loosening the retaining ring
- Fine adjustment and long lasting components
- Improved comfort for more productivity

### 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
Air consumption (m <sup>3</sup> /h)	12
Weight (g)	388
Maximum fluid pressure (bar)	6
Maximum Fluid Temperature (°C)	50
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

### FITTINGS

Fitting	Air Inlet	M 1/4" NPS
	Fluid Inlet	M 1/4" NPS

### AIRCAP EPX K HVLP

#### CONFIGURATION OF THE S3 P HTI SPRAY GUN

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Part number
-	-	-	-	-	135.150.200
14-20 s	08 EPX K HVLP	0.8	300	25	135.150.204
20-30 s	10 EPX K HVLP	1.0	461	26	135.150.205
30-40 s	12 EPX K HVLP	1.2	745	26	135.150.206



### PROJECTORS FOR S3 P HTI SPRAY GUNS

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m <sup>3</sup> /h)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Projector		Nozzle	Aircap	Needle
					Type	Part number			
14-20 s	0.8	12	80	25	08 EPX K HVLP	031.150.004	134.630.400	132.150.100	033.150.100
20-40 s	1.0	12	92	26	10 EPX K HVLP	031.150.005	134.630.100	132.150.100	033.150.500
20-40 s	1.2	12	131	26	12 EPX K HVLP	031.150.006	134.630.200	132.150.100	033.150.200

### SEAL KITS

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

# S3 P HPA



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

### FEATURES

- New ergonomics and body design
- Unique aircap design
- E-Z adjust aircap
- Reduced air consumption
- In-line air valve assembly
- 2-finger trigger

### BENEFITS

- The gun is part of the operator's arm who can focus on the application and the spraying movement for an improved quality
- Unsurpassed finish quality with perfectly balanced fan
- Allows adjustment without loosening the retaining ring
- Energy savings
- Fine adjustment and long lasting components
- Improved comfort for more productivity

### 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)	3
Air consumption (m <sup>3</sup> /h)	10
Weight (g)	387
Maximum fluid pressure (bar)	6
Maximum Fluid Temperature (°C)	50
Nozzle	Stainless steel
Needle	Stainless steel
Wetted parts	Stainless steel

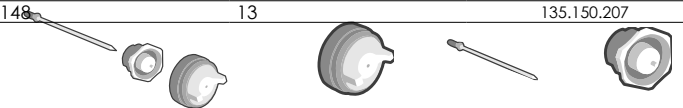
### FITTINGS

Fitting	Air Inlet	M 1/4" NPS
	Fluid Inlet	M 1/4" NPS

### AIRCAP PX PGL

#### CONFIGURATION OF THE S3 P HPA SPRAY GUN

Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Part number
-	-	-	-	-	135.150.200
14-20 s	08 PX	0.8	307	23	135.150.201
20-30 s	10 PX	1.0	506	23.5	135.150.202
30-40 s	12 PX	1.2	731	25	135.150.203
20-30 s	10 PGL	1.0	148	13	135.150.207



#### PROJECTORS FOR M22 P HPA SPRAY GUNS

Max Fluid viscosity in CA 4	Nozzles Size (mm)	Air consumption (m <sup>3</sup> /h)	Fluid output (cc/mn)	Fan width at 20 cm (cm)	Projector Type	Part number	Aircap	Needle	Nozzle
14-20	0.8	10	307	23	08 PX	031.150.001	132.631.100	033.150.100	134.630.400
20-30	1.0	10	506	23.5	10 PX	031.150.002	132.631.100	033.150.500	134.630.100
30-40	1.2	10	731	25	12 PX	031.150.003	132.631.100	033.150.200	134.630.200
20-30 s	1.0	4	148	13	10 PGL	031.150.007	132.640.100	033.150.300	134.640.100

### SEAL KITS

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

**AIRCAPS FOR S3 AIRSPRAY GUNS**



**AIRCAPS FOR HTI AIRSPRAY GUNS**

	ESG K HVLP	EPX K HVLP
Guns	S3 G HTi	S3 P HTi
Fan shape	Flat	Flat
Atomization Type	HTi	HTi
Atomization Quality	Excellent	Excellent
Air consumption @ 2 bar	7.5 m <sup>3</sup> /h	12 m <sup>3</sup> /h
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
Fan shape	Flat	Flat	Flat	Flat
Atomization Type	HPA	HPA	HPA	HPA
Atomization quality	Very good	Very good	Very good	Very good
Transfer efficiency	72%	52%	54%	76%
Air consumption @ 2 bar	10 m <sup>3</sup> /h	13 m <sup>3</sup> /h	14 m <sup>3</sup> /h	10 m <sup>3</sup> /h
Nozzle size	08/12	08 /15	15	08/12



**AIRCAPS FOR HPA AIRSPRAY GUNS - AIRCAPS FOR THE LINE**

	PGL	PGL
Guns	S3 G HPA	S3 P HPA
Fan shape	Line	Line
Atomization type	HPA	HPA
Atomization quality	Very good	Very good
Nozzle size	10	10

**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
Cone	8	150	12	075.900.213
Cone	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**

The white cup is for water or solvent based paints ; the grey cup is for polyurethanes and pre-catalyzed paints



**PART NUMBERS GRAVITY CUPS FOR M22G**

Description	Material	Capacity (L)	Fitting	Part number
White cup (solvent and water-based paints)	Polycetal	0.25	M 1/4" BSP	139.280.200
White Cup (solvent or water-based paints)	Polycetal	0.6	M 1/4" BSP	139.270.200
Grey cup (PU and pre-catalyzed paints)	PeHD	0.6	M 1/4" BSP	139.270.250

**PART NUMBER GRAVITY CUP FOR S3 G**

Description	Material	Capacity (L)	Fitting	Part number
White cup (solvent and water-based paints)	Polycetal	0.25	M 1/4" BSP	139.280.200
Grey cup (PU- and pre-catalysed paints)	PeHD	0.25	M 1/4" BSP	139.280.250

**SEAL PACKS AND SCREENS**

Designation	Quantity	Part number
Pack of non-drip plugs for 0.25 liter and 0.6 liter cups	5	139.270.210
Pack of screens for 0.25 liter and 0.6 liter cups (200 µm)	5	139.270.220

**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 M22A**

Description	Material	Fitting	Capacity (L)	Part number
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







### GRAVITY PRESSURE CUP FOR M22 GSP

#### PART NUMBER

Description	Material	Capacity (L)	Fitting	Part number
Pressure cup	PeHD (grey)	0.6	M 1/4" BSP	139.270.260

### CUP PAPER FILTER

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

#### POCHETTE

Description	Quantity	Part number
Pack of paper filter (226 µm)	10	151.399.903

### FUNNELS WITH REMOVABLE STRAINERS FOR CUPS

#### FUNNELS

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

#### STRAINERS

Description	Internal diameter (mm)	Size (µ)	Part number
Spare strainer	50	210	057.070.200
Spare element Ø = 50 mm - 510 µm	50	510	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 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

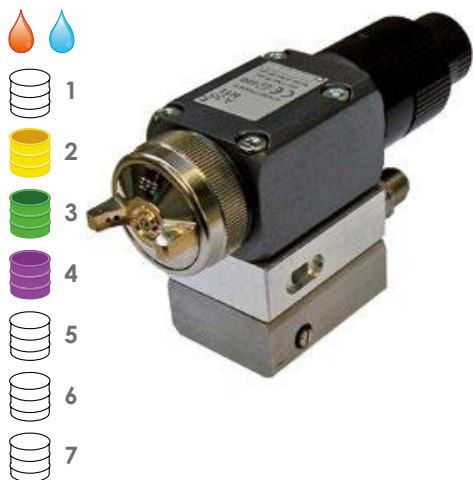
### ACCESSORIES AND FILTERS FOR AIRSPRAY GUNS (CONTINUED)

#### VARIOUS ACCESSORIES

Image	Description	Fittings on gun	Hoses thread	Part number
	Air inlet swivel fitting	M1/4" G - F 1/4" G		129.020070
	Air inlet quick-disconnect fitting	F 1/4" NPS / M 1/4" NPS		905.030.105
	Gun inlet pressure gauge for HVLP compliance testing	MF 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

Modular automatic guns

# A35 HTi



Modular design for High Volume Production with an outstanding finish quality - HTi technology.

**FEATURES**

- Excellent atomization quality with outstanding transfer efficiency
- Modular design
- Built-in valve
- Indexed aircap 0 - 90°
- Fluid output adjustment by indexed button
- Stainless steel design

**BENEFITS**

- Excellent finish quality, reduced paint costs, cleaner working environment, lower booth maintenance
- Quick service : only 4 bolts to unscrew, no need to remove hoses
- Non air-bleeding gun
- Perfect readjustment of fan pattern
- High precision fluid regulation
- Compatible with water-based materials

**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
Fluid output (cc/mn)	Upon nozzle (see table)
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

**BASE FOR A35 HTI GUNS**

Type	Side outputs	Rear outputs
Fluid circulation	Circulation in the base	Circulation in the base (l)
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

**CONFIGURATION OF THE A35 HTI GUN WITHOUT BASE**

Description	Aircap	Nozzle	Part number
A35 HTi without projector, w/o base	-	-	129.300.000

**BASE FOR A35 GUN**

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

**AIRCAP  
E3 K HVLP**

**CONFIGURATION OF THE A35 HTI GUN FITTED WITH BASE - E3 K HVLP AIRCAP**

Description	Projector type	Base type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)		Part number
					Minimum	Maximum	
A35 HTi	06 E3 K HVLP	Side outputs	0.6	150	10	25	135.300.112
A35 HTi		Rear outputs					135.300.212
A35 HTi	07 E3 K HVLP	Side outputs	0.7	200	10	29	135.300.101
A35 HTi		Rear outputs					135.300.201
A35 HTi	09 E3 K HVLP	Side outputs	0.9	250	10	35	135.300.102
A35 HTi		Rear outputs					135.300.202
A35 HTi	12 E3 K HVLP	Side outputs	1.2	300	10	38	135.300.103
A35 HTi		Rear outputs					135.300.203
A35 HTi	15 E3 K HVLP	Side outputs	1.5	350	10	41	135.300.104
A35 HTi		Rear outputs					135.300.204
A35 HTi	18 E3 K HVLP	Side outputs	1.8	400	10	43	135.300.105
A35 HTi		Rear outputs					135.300.205

# A35 HTi



## PROJECTORS E3 K HVLP FOR A35 HTI GUNS

Product viscosity in CA4 (s) or centipoises (cps)	Nozzles Size (mm)	Air consumption (m³/h)	Fluid flow rate (cc/mn)	Fan width at 20 cm (cm)		Projector		Nozzle part number	Aircap Part number	Needle part number
				Maximum	Minimum	Type	Part number			
< 20 s	0.6	20 - 30	150	25	10	06 E3 K HVLP	031.300.012	134.130.050	132.300.100	033.300.100
	0.7	20 - 30	200	29	10	07 E3 K HVLP	031.300.001	134.130.100	132.300.100	033.300.100
	0.9	20 - 30	250	35	10	09 E3 K HVLP	031.300.002	134.130.200	132.300.100	033.300.100
	1.2	20 - 30	300	38	10	12 E3 K HVLP	031.300.003	134.130.300	132.300.100	033.300.100
20 - 40 s	1.5	20 - 30	350	41	10	15 E3 K HVLP	031.300.004	134.130.600	132.300.100	033.300.200
	1.8	20 - 30	400	43	10	18 E3 K HVLP	031.300.005	134.130.700	132.300.100	033.300.200

## AIRCAP EP3

### CONFIGURATION OF THE A35 HTI GUN FITTED WITH BASE - EP3 AIRCAP

Description	Projector type	Base type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)		Part number
					Minimum	Maximum	
A35 HTi	06 EP3	Side outputs	0.6	150	10	24	135.300.111
A35 HTi		Rear outputs					135.300.211
A35 HTi	07 EP3	Side outputs	0.7	200	10	25	135.300.106
A35 HTi		Rear outputs					135.300.206
A35 HTi	09 EP3	Side outputs	0.9	250	10	31	135.300.107
A35 HTi		Rear outputs					135.300.207
A35 HTi	12 EP3	Side outputs	1.2	300	10	32	135.300.108
A35 HTi		Rear outputs					135.300.208
A35 HTi	15 EP3	Side outputs	1.5	350	10	34	135.300.109
A 35 HTi		Rear outputs					135.300.209
A35 HTi	18 EP3	Side outputs	1.8	400	10	38	135.300.110
A 35 HTi		Rear outputs					135.300.210



## PROJECTORS EP3 FOR A35 HTI GUNS

Product viscosity in CA4 (s) or centipoises (cps)	Nozzles Size (mm)	Air consumption (m³/h)	Fluid flow rate (cc/mn)	Fan width at 20 cm (cm)		Projector		Nozzle part number	Aircap Part number	Needle part number
				Maximum	Minimum	Type	Part number			
< 20 s	0.6	21 - 29	150	24	10	06 EP3	031.300.011	134.130.050	132.300.300	033.300.100
	0.7	21 - 29	200	25	10	07 EP3	031.300.006	134.130.100	132.300.300	033.300.100
	0.9	21 - 29	250	31	10	09 EP3	031.300.007	134.130.200	132.300.300	033.300.100
	1.2	21 - 29	300	32	10	12 EP3	031.300.008	134.130.300	132.300.300	033.300.100
20 - 40 s	1.5	21 - 29	350	34	10	15 EP3	031.300.009	134.130.600	132.300.300	033.300.200
	1.8	21 - 29	400	38	10	18 EP3	031.300.010	134.130.700	132.300.300	033.300.200

## SUPPORTS

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

## KIT

Description	Part number
Remote adjusting fan width kit	029.253.002

Airspray spraying

Plural component pumps and machines

Fittings and air treatment

# A 35 HPA



Modular design for High Volume Production with an excellent finish quality - HPA technology. Wide fan pattern available.

### FEATURES

Excellent atomization quality with outstanding transfer efficiency
New EN 3L aircap
Modular design
Built-in valve
Indexed aircap 0 - 90°
Fluid output adjustment by indexed button
Stainless steel design

### BENEFITS

Excellent finish quality, reduced paint costs, cleaner working environment, lower booth maintenance
Unsurpassed wide fan pattern
Quick service : only 4 bolts to unscrew, no need to remove hoses
Non air-bleeding gun
Perfect readjustment of fan pattern
High precision fluid regulation
Compatible with water-based materials

### 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
Fluid output (cc/mn)	Upon nozzle (see table)
Weight (g) (gun only)	497
Maximum Fluid Temperature (°C)	50
Air consumption (m³/h)	33
Wetted parts	Stainless steel - treated stainless steel

### 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

### CONFIGURATION OF THE A35 HPA GUN WITHOUT BASE

Description	Aircap	Nozzle	Part number
A35 HPA without projector, w/o base	-	-	129.305.000

### BASE FOR A35 GUN

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

## A 35 HPA

AIRCAP  
EN 3L

## CONFIGURATION OF THE A35 HPA GUN FITTED WITH BASE

Description	Projector type	Base type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)		Part number
					Minimum	Maximum	
A35 HPA	06 EN 3L	Side outputs	0.6	150	10	30	135.305.106
A35 HPA		Rear outputs					135.305.206
A35 HPA	07 EN 3L	Side outputs	0.7	200	10	31	135.305.101
A35 HPA		Rear outputs					135.305.201
A35 HPA	09 EN 3L	Side outputs	0.9	250	10	34	135.305.102
A35 HPA		Rear outputs					135.305.202
A35 HPA	12 EN 3L	Side outputs	1.2	300	10	38	135.305.103
A35 HPA		Rear outputs					135.305.203
A35 HPA	15 EN 3L	Side outputs	1.5	350	10	39	135.305.104
A35 HPA		Rear outputs					135.305.204
A35 HPA	18 EN 3L	Side outputs	1.8	400	10	41	135.305.105
A35 HPA		Rear outputs					135.305.205



## PROJECTORS EN 3L FOR A35 HPA GUNS

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

## SUPPORTS

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

# 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.

## FEATURES

Excellent atomization quality with outstanding transfer efficiency

Unique custom-made design of fluid passages at the bellow level

Adoption of a bellow seal

Compatible with solvent or water-based materials

Flushing volume optimized by the bellow technology

Modular design

## BENEFITS

Excellent finish quality, reduced paint costs, cleaner working environment, lower booth maintenance

Optimized flushing and fluid circulation

Increased reliability

Universal use meeting most requirements and unique on the market !

Easy flushing and product savings

The body of the gun can be easily removed from the base : only 4 bolts needed to release, no need to remove hoses and it maintains optimal position even after servicing. Dismounting and set-up without hose removal

## SPECIFICATIONS

Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Trigger air pressure (bar mini)	4
Fluid output (cc/mn)	upon nozzle
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

## 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

## CONFIGURATION OF THE A25F HPA GUN WITHOUT BASE

Description	Aircap	Nozzle	Part number
A25F HPA without projector, w/o base	-	-	129.420.000

## BASE FOR A25 FLOWMAX® GUN

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

## A25F HPA Flowmax® gun

AIRCAP  
N3C

## A 25F FLOWMAX® GUN KIT WITH BASE

Description	Projector type	Max Fluid viscosity in CA 4	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)		Part number with base
					Minimum	Maximum	
A25F Flowmax®	07 N3C	20 - 30s	0.7	200	10	24	151.260.809
A25F Flowmax®	09 N3C	20 - 30s	0.9	250	10	26	151.260.810
A25F Flowmax®	12 N3C	20 - 30s	1.2	300	10	34	151.260.811



## PART NUMBERS

Product viscosity in CA4 (s) or centipoises (cps)	Description	Tip Size (mm)	Air consumption (m³/h)	Fluid flow rate (cc/mn)	Fan width at 20 cm (cm)		Nozzle part number	Aircap		Needle Part number for A25F
					Minimum	Maximum		Type	part number	
< 20 s	07 N 3C	0.7	22	180	6	35	134.021.100	N 3C	132.021.750	033.420.100
	09 N 3C	0.9	22	250	6	35	134.020.100	N3C	132.021.750	033.420.100
	12 N 3C	1.2	22	350	6	35	134.020.200	N3C	132.021.750	033.420.100
	07 N 23C	0.7	22	180	6	35	134.021.100	N 23C	132.021.700	033.420.100
	09 N 23C	0.9	22	250	6	35	134.020.100	N 23C	132.021.700	033.420.100
	12 N 23C	1.2	24	350	6	35	134.020.200	N 23C	132.021.700	033.420.100
	07 LP 23	0.7	22	180	6	35	134.021.100	LP 23	132.060.100	033.420.100
	209 LP 23	0.9	22	250	6	35	134.020.100	LP23	132.060.100	033.420.100
	212 LP 23	1.2	22	350	6	35	134.020.200	LP 23	132.060.100	033.420.100

## EXTENSIONS FOR A25 FLOWMAX® GUN

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

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



Universal gun suitable for a wide range of applications  
 - Recommended for filled materials and small output applications requiring high precision.  
 High finish quality thanks to HTi technology.

### FEATURES

- High opening/closing frequency
- Needle sealing done by a self-adjusting cartridge
- Independent fan and atomization control
- Indexed aircap 0 - 90°
- Fluid output adjustment by indexed button
- Optimized inlet and outlet fluid ports

### BENEFITS

- Intensive production
- Outstanding reliability
- Optimized finish quality and pattern size
- Perfect readjustment of fan pattern
- High precision fluid regulation
- Optimum spraying of high viscosity materials (circulation recommended to keep product homogeneity)

### SPECIFICATIONS

Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Trigger air pressure (bar mini)	3
Fluid output (cc/mn)	upon tip
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

### 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

### CONFIGURATION OF THE A29 HTI GUN WITHOUT BASE

Description	Aircap	Nozzle	Part number
A29 HTi without projector, w/o base	-	-	129.310.000



# A 29 HTi

## AIRCAP E3 K HVLP

### CONFIGURATION OF THE A 29 HTI SPRAY GUN FITTED WITH K HVLP AIRCAP

Description	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)		Part number
				Minimum	Maximum	
A 29 HTi	06 E3 K HVLP	0.6	150	10	25	135.310.012
A 29 HTi	07 E3 K HVLP	0.7	200	10	29	135.310.001
A 29 HTi	09 E3 K HVLP	0.9	250	10	35	135.310.002
A 29 HTi	12 E3 K HVLP	1.2	300	10	38	135.310.003
A 29 HTi	15 E3 K HVLP	1.5	350	10	41	135.310.004
A 29 HTi	18 E3 K HVLP	1.8	400	10	43	135.310.005



### PROJECTORS EP3 K HVLP FOR A29 HTI GUNS

Product viscosity in CA4 (s) or centipoises (cps)	Nozzles Size (mm)	Air consumption (m3/h)	Fluid flow rate (cc/mn)	Fan width at 20 cm (cm)		Projector		Nozzle part number	Aircap Part number	Needle part number
				Maximum	Minimum	Type	Part number			
< 20 s	0.6	20 - 30	150	25	10	06 E3 K HVLP	031.300.012	134.130.050	132.300.100	033.300.100
	0.7	20 - 30	200	29	10	07 E3 K HVLP	031.300.001	134.130.100	132.300.100	033.300.100
	0.9	20 - 30	250	35	10	09 E3 K HVLP	031.300.002	134.130.200	132.300.100	033.300.100
	1.2	20 - 30	300	38	10	12 E3 K HVLP	031.300.003	134.130.300	132.300.100	033.300.100
20 - 40 s	1.5	20 - 30	350	41	10	15 E3 K HVLP	031.300.004	134.130.600	132.300.100	033.300.200
	1.8	20 - 30	400	43	10	18 E3 K HVLP	031.300.005	134.130.700	132.300.100	033.300.200

## AIRCAP EP3

### CONFIGURATION OF THE A 29 HTI SPRAY GUN FITTED WITH EP3 AIRCAP

Description	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)		Part number
				Minimum	Maximum	
A 29 HTi	06 EP3	0.6	150	10	24	135.310.011
A 29 HTi	07 EP3	0.7	200	10	25	135.310.006
A 29 HTi	09 EP3	0.9	250	10	31	135.310.007
A 29 HTi	12 EP3	1.2	300	10	32	135.310.008
A 29 HTi	15 EP3	1.5	350	10	34	135.310.009
A 29 HTi	18 EP3	1.8	400	10	38	135.310.010

### PROJECTORS EP3 FOR A29 HTI GUNS

Product viscosity in CA4 (s) or centipoises (cps)	Nozzles Size (mm)	Air consumption (m3/h)	Fluid flow rate (cc/mn)	Fan width at 20 cm (cm)		Projector		Nozzle part number	Aircap Part number	Needle part number
				Maximum	Minimum	Type	Part number			
< 20 s	0.6	21 - 29	150	24	10	06 EP3	031.300.011	134.130.050	132.300.300	033.300.100
	0.7	21 - 29	200	25	10	07 EP3	031.300.006	134.130.100	132.300.300	033.300.100
	0.9	21 - 29	250	31	10	09 EP3	031.300.007	134.130.200	132.300.300	033.300.100
	1.2	21 - 29	300	32	10	12 EP3	031.300.008	134.130.300	132.300.300	033.300.100
20 - 40 s	1.5	21 - 29	350	34	10	15 EP3	031.300.009	134.130.600	132.300.300	033.300.200
	1.8	21 - 29	400	38	10	18 EP3	031.300.010	134.130.700	132.300.300	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

## Non-modular automatic guns

# A 29 HPA



Universal gun suitable for a wide range of applications  
 - Recommended for filled materials and small output applications requiring high precision.  
 High finish quality thanks to HPA technology.

### FEATURES

High opening/closing frequency  
 Needle sealing done by a self-adjusting cartridge  
 New EN 3L aircap  
 Independant fan and atomization control  
 Indexed aircap 0 - 90°  
 Fluid output adjustment by indexed button  
 Optimized inlet and outlet fluid ports

### BENEFITS

Intensive production  
 Outstanding reliability  
 Unsurpassed wide fan pattern  
 Optimized finish quality and pattern size  
 Perfect readjustment of fan pattern  
 High precision fluid regulation  
 Optimum spraying of high viscosity materials (circulation recommended to keep product homogeneity)

### SPECIFICATIONS

Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Trigger air pressure (bar mini)	3
Fluid output (cc/mn)	upon tip
Weight (g) (gun only)	585
Maximum Fluid Temperature (°C)	50
Air consumption (m³/h)	24 - 44
Wetted parts	Aluminum - Stainless steel

### 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

## A 29 HPA

AIRCAP  
EN 3L

## CONFIGURATION OF THE A 29 HPA SPRAY GUN

Description	Projector type	Nozzles Size (mm)	Fluid output (cc/mn)	Fan width at 20 cm (cm)		Part number
				Minimum	Maximum	
A 29 HPA	06 EN 3L	0.6	150	10	30	135.315.006
A 29 HPA	07 EN 3L	0.7	200	10	31	135.315.001
A 29 HPA	09 EN 3L	0.9	250	10	34	135.315.002
A 29 HPA	12 EN 3L	1.2	300	10	38	135.315.003
A 29 HPA	15 EN 3L	1.5	350	10	39	135.315.004
A 29 HPA	18 EN 3L	1.8	400	10	41	135.315.005



## PROJECTORS EN 3L K FOR A29 HPA GUNS

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



### FEATURES

### BENEFITS

Patented Superlife™ diaphragm packing (without cartridges)	Delivers more than 4-5 times a standard package operational life
Hardened S/S nozzle with removable polyurethan end needle	Extends the nozzle lifetime - reduced and quick on site maintenance
Separate fan width and atomization air adjustment	Allows for optimum spray pattern and finish quality
Optimized inlet and outlet fluid ports	Optimum spraying of high viscosity materials (circulation recommended to keep product homogeneity)

### 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
Fluid output (cc/mn)	Upon tip
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

### 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

### AIRCAP

Z 23A

N 23C

### CONFIGURATION OF THE A28 GUN

Designation	Projector type	Use	Nozzle Diameter	Fan width (cm)	Fluid output (cc/mn)	Part number
A 28 HPA	-	Gun w/o projector	-	-	-	129.417.000
A 28 HPA	207 Z 23A	flat pattern	0.7	20-30	100	135.417.001
A 28 HPA	209 Z 23A	flat pattern	0.9	20-30	200	135.417.002
A 28 HPA	212 Z 23A	flat pattern	1.2	20-30	400	135.417.003
A 28 HPA	212 N 23C	flat pattern low pressure	1.2	20-30	400	135.417.004
A 28 HPA	215 N 23C	flat pattern	1.5	25-35	500	135.417.005
A 28 HPA	218 N 23C	flat pattern	1.8	25-35	600	135.417.006

## A28 HPA

## SEAL KITS

Description	Part number
Seal kit	129.417.900
Repair kit	129.417.901

## SUPPORT ET ACCESSOIRES

Description	Part number
Fixing bracket	029.417.011
M5 x 16 Screw	933.011.194
Pin	906.120.089

## AIRCAPS FOR A28



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

## TREATED NOZZLES FOR A28



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

## SPECIFIC NEEDLE FOR A28

Description	Specific needle for A28 (without needle-end)
Dedicated needle (diaphragm assembly)	129.417.910

## NEEDLE TIP KIT FOR DEDICATED A28 NEEDLE

Description	Part number
Needle tip kit for nozzles sized 7 to 23 (x10)	129.417.005
Needle tip kit for nozzles sized 33 and 40 (x10)	129.417.014
PeHD needle tip kit for nozzles 15 and 18 (x5)	129.417.020

## KITS

Description	Part number
Remote adjusting fan width kit for A26 - A28	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.

### FEATURES

- GL specific projectors mounting
- Optimized inlet and outlet fluid ports

### BENEFITS

- For lines
- Quick color changes and flushing (recommended circulation to maintain fluid homogeneity)

### 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
Fluid flow rate (cc/mn)	Upon nozzle selected
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

### 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

### AIRCAP

PX  
GL

### CONFIGURATION

Description	Max Fluid viscosity in CA 4	Projector type	Nozzles Size (mm)	Fan width at 20 cm (cm)		Fluid output (cc/mn)	Part number w/o base plate
				Minimum	Maximum		
A3 HPA	20 s	08 PX	0.8	3	10	200	135.713.014
A3 HPA	20 s	10 PX	1	4	15	300	135.713.011
A3 HPA	20 s	06 PGL	0.6	0.4	2.5	180	135.713.017
A3 HPA	20 s	10 PGL	1	0.4	3	300	135.713.015
A3 HPA	30 s	12 PX	1.2	5	15	450	135.713.012

# A3 HPA



## PROJECTORS FOR A3 HPA GUNS

Product viscosity in CA4 (s) or centipoises (cps)	Nozzles Size (mm)	Fan width at 20 cm (cm)		Fluid flow rate (cc/mn)	Air consumption (m³/h)	Description	Projector	Nozzle	Aircap	Needle
		Minimum	Maximum				Part number	Part number	Part number	Part number
< 20 s	0.8	3	10	100	10	08 PX	031.713.014	134.630.400	132.631.100	033.713.400
	1	4	15	120	10	10 PX	031.713.011	134.630.100	132.631.100	033.713.000
	1.2	5	15	150	10	12 PX	031.713.012	134.630.200	132.631.100	033.713.100
	0.6	0.4	2.5	80	10	06 PGL	031.713.017	134.640.300	132.640.100	033.713.500
	1	0.4	3	120	10	10 PGL	031.713.015	134.640.100	132.640.100	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 lub-free agitator. They are directly assembled on some tanks, but can also be easily added afterwards to any 10L, 20L or 50L tank (1).

- **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 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	Top 3/8" NPS	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	Bottom 3/8" NPS	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	Top 3/8" NPS	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	Top 3/8" NPS	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	Top 3/8" NPS	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	Top 3/8" NPS	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	Top 3/8" NPS	152.320.201
HP Airspray Tank 20L SST TOP no agi	20L 5 Gal US	Stainless Steel	Yes	20.2kg 44.5Lbs	7 Bar 100 psi	Top 3/8" NPS	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	Bottom 3/4" GAS	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	Bottom 3/4" GAS	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	Bottom 3/4" GAS	152.320.510
HP Airspray Tank 20L SST BOT&TOP no agi	20L 5 Gal US	Stainless Steel	No	24.0kg 52.9Lbs	4.1 Bar 60 psi	Top 3/8" NPS & Bottom 3/4" GAS	152.320.520
Airspray Tank 50L SST TOP no agi	50L 13 Gal US	Stainless Steel	No	29.5kg 65.0Lbs	3.8 Bar 60 psi	Top 3/8" NPS	152.350.200
Airspray Tank 50L SST TOP w/agi	50L 13 Gal US	Stainless Steel	Yes	29.5kg 65.0Lbs	3.8 Bar 60 psi	Top 3/8" NPS	152.350.201
Airspray Tank 50L SST BOT no agi	50L 13 Gal US	Stainless Steel	No	29.5kg 65.0Lbs	3.8 Bar 60 psi	Bottom 3/4" GAS	152.350.210
Airspray Tank 50L SST BOT w/agi	50L 13 Gal US	Stainless Steel	Yes	28.0kg 61.7Lbs	3.8 Bar 60 psi	Bottom 3/4" GAS	152.350.211
Airspray Tank 50L SST BOT&TOP no agi	50L 13 Gal US	Stainless Steel	No	29.5kg 65.0Lbs	3.8 Bar 60 psi	Top 3/8" NPS & Bottom 3/4" GAS	152.350.220

(1) Except 152.310.100

(2) Benefits from a removable Stainless Steel bucket



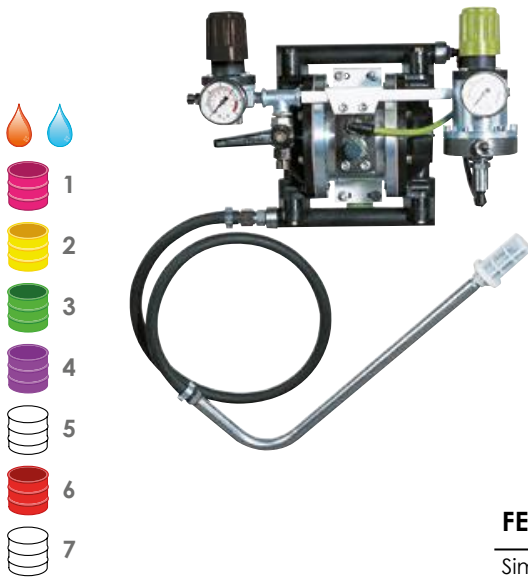
## ACCESSORIES

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 Helix	Use a Nylon Helix (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



# 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.



### FEATURES

- Simple design
- Double material diaphragm out of PTFE and nitrile
- Compact design

### BENEFITS

- Easy operation and maintenance
- Compatible with most of solvent or water-based products.
- Quick motor inversion
- Easy to carry

### SPECIFICATIONS

Pressure ratio	1/1
Fluid volume per cycle (cm <sup>3</sup> )	100
Number of cycles per litre of products	10
Air consumption (m <sup>3</sup> /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

Fitting	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

### CONFIGURATION OF THE PMP 150 PUMP

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

## PMP 150 pump

## 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

## 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

## CARTS, CUPS AND SUCTION RODS

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 18 x 125 fitting - plunger tube length 600mm	049.596.010

## KITS FOR PMP 150 PUMPS

Kit designation	Gun type	Hoses Length (m)	Kit part number
PMP 150 standard wall-mounted	M22 15 EN 3	7.5	151.249.040
PMP 150 standard wall-mounted with stainless steel circulation	M22 15 EN 3	7.5	151.249.050
PMP 150 standard wall mounted	M2209 E 3 K HVLP	7.5	151.249.080
PMP 150 standard wall-mounted with stainless steel circulation	M2209 E 3 K HVLP	7.5	151.249.090

# 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.

## FEATURES

- Simple design
- Double material diaphragm out of PTFE and nitrile
- Rugged design

## BENEFITS

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

## SPECIFICATIONS

Pressure ratio	1/1
Fluid volume per cycle (cm <sup>3</sup> )	100
Number of cycles per litre of products	10
Air consumption (m <sup>3</sup> /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

Fitting	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

## CONFIGURATION OF THE PMP 150 PRATIK PAINT PUMP

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 PACKS

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

## TRIPOD, CUPS AND SUCTION RODS

Description	Part number
Stand 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 18 x 125 fitting - plunger tube length 600mm	049.596.010

## PMP 150 PRATIK PUMP KITS

Kit designation	Gun type	Hoses Length (m)	Cup	Kit part number
PMP 150 Pratik	M22 09 E3 K HVLP	7.5	•	151.249.100
PMP 150 Pratik	M22 15 EN 3	7.5	•	151.249.060

# 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.



### FEATURES

- Simple and rugged design
- Compact design
- Charged polypropylene diaphragm and polyurethane balls

### BENEFITS

- Compatible with a wide range of materials
- Easy to carry
- Compatible with water-based and enamels

### SPECIFICATIONS

Pressure ratio	1/1
Fluid volume per cycle (cm <sup>3</sup> )	100
Number of cycles per litre of products	10
Air consumption (m <sup>3</sup> /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

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

### CONFIGURATION OF THE PMP 150E PAINT PUMP

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

### OPTIONS

Description	Part number
Motor air supply kit	151.753.050

### SEAL PACKS

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

### CARTS, CUPS AND SUCTION RODS

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.



## FEATURES

Large suction fluid passage
Double material diaphragm out of PTFE and nitrile
Simple design
Compact design

## BENEFITS

Possibility of large outputs
Compatible with most of solvent or water-based products.
Quick motor inversion
Easy operation and maintenance
Easy set-up in the workshop

## SPECIFICATIONS

Pressure ratio	1/1
Fluid volume per cycle (cm <sup>3</sup> )	100
Number of cycles per litre of products	10
Air consumption (m <sup>3</sup> /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

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

## CONFIGURATION OF THE PMP 150 TRANSFER PAINT PUMP

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

# PDM175

Diaphragm pump specifically designed for circulating and feeding automatic machines.



### FEATURES

- Simple design
- Diaphragm made of PTFE
- Compact design

### BENEFITS

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

### SPECIFICATIONS

Pressure ratio	1/1
Fluid volume per cycle (cm <sup>3</sup> )	350
Number of cycles per litre of products	3
Fluid Output at 30 cycles/mn (l/mn)	10.5
Free flow rate (L/mn)	38
Maximum air inlet pressure (bar)	6
Maximum fluid pressure (bar)	6
Maximum Fluid Temperature (°C)	50
Sound level (dBA)	<70
Weight (kg) - wall-mounted	13
Wetted parts	PTFE, Stainless steel, Aluminum
Height (cm)	29
Width (cm)	24.5
Depth (cm)	31.5

### FITTINGS

Fitting	Air Inlet	F 3/8" BSP
	Fluid Inlet	M 26 x 125
	Fluid Outlet	F 1/2" NPS

### CONFIGURATION OF THE PDM 01.175 PAINT PUMP

Set-up	Suction rod	Drain rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
Bare pump	-	-	-	-	-	144.905.000
Wall mounted pump	●	-	-	●	-	151.656.000

### SUCTION RODS

Description	Part number
Easyflow suction rod Ø25 plunging tube length 600 mm	149.596.150
Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums)	149.596.160

### SEAL PACKAGES

Description	Part number
Air motor seal kit + air distributor seals	144.931.091
Fluid section seal package	144.900.903
Air distributor seals	144.931.094

# 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.

### FEATURES

- Compact design
- Rugged - High sealing capacity with singlelip seal
- Available in stainless steel version

### BENEFITS

- Easily integrated into a finish workshop
- Compatible with a wide range of materials
- Compatible with water-based materials

### SPECIFICATIONS

Pressure ratio	1.8/1
Fluid volume per cycle (cm <sup>3</sup> )	85
Number of cycles per litre of products	12
Air consumption (m <sup>3</sup> /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

### FITTINGS

Fitting	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

### CONFIGURATION OF THE AIRSPRAY 02C85 PAINT PUMP

Set-up	Additional regulator	Atomization air regulator	Air regulator Fluid pressure	Suction rod	Drain rod	Pump output filter	Part number
Standard, bare	-	-	-	-	-	-	144.941.000
Standard, wall-mounted	-	•	•	•	-	-	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

### SEAL KITS

Description	Part number
Seal kit for C85 fluid section	144.941.490
Repair kit for C85 fluid section	144.941.495
Seal 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

### CARTS AND SUCTION RODS

Description	Part number
Single Post Cart	051.730.110
Suction rod 18 x 125 fitting - plunger tube length 600mm	049.596.010



# 04C240Airspray paint pump

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



## FEATURES

Compact design  
Rugged - High sealing capacity with singlelip seal  
Hot or cold spraying

## BENEFITS

Easy to carry  
Compatible with a wide range of materials  
To spray a large range of products with the best conditions

## SPECIFICATIONS

Pressure ratio	4/1
Fluid volume per cycle (cm <sup>3</sup> )	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	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

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

## CONFIGURATION OF THE AIRSPRAY 04C240 PAINT PUMP

Set-up	Suction rod	Drain rod	Atomization air regulator	Air regulator Fluid pressure	Pump output filter	Part number
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	144.970.090
Repair kit	144.970.095
Seal kit for 500-4 air motor	146.260.990
Repair kit for 500-4 air motor	146.260.995

## CARTS AND RODS (SUCTION AND FLUSHING)

Description	Part number
Two Post Cart w/o plate	051.221.000
Two Post Pump Mounting Plate	056.100.199
Easyflow suction rod Ø25 plunging tube length 600 mm	149.596.150
Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums)	149.596.160
Stainless steel flushing rod F18 x 125	049.596.000

# 08C240 Airspray paint pump

For large production.  
The Turbo air motor is recommended for continued use.



## FEATURES

Large diameter suction rod and high compression ratio  
Stainless steel design

## BENEFITS

Can be used with a wide range of materials  
Compatible with water-based materials

Simple design , reduced number of spare parts

Easy maintenance

## FEATURES

Pressure ratio	8/1
Fluid volume per cycle (cm <sup>3</sup> )	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	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 Lower sealing
	PTFE G + Polyfluid PEHD
Weight (kg) - wall-mounted	27
Wetted parts	Stainless steel
Height (cm)	86.4
Width (cm)	35.6
Depth (cm)	25.4

## FITTINGS

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

## CONFIGURATION OF THE AIRSPRAY 08C240 PAINT PUMP - STAINLESS STEEL

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

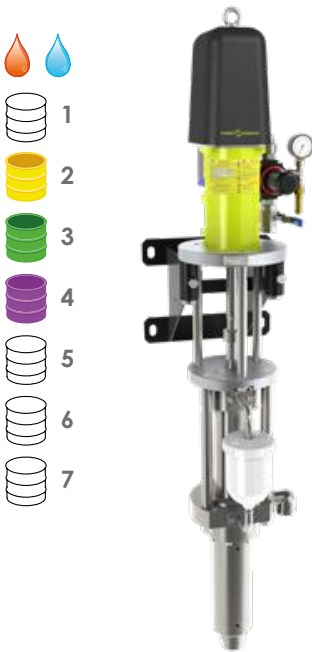
## KITS

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

## CARTS AND RODS (SUCTION AND FLUSHING)

Description	Part number
Two Post Cart w/o plate	051.221.000
Two Post Pump Mounting Plate	056.100.199
Easyflow suction rod Ø25 plunging tube length 600 mm	149.596.150
Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums)	149.596.160
Stainless steel flushing rod F18 x 125	049.596.000
Fluid filter	155.580.300

# PCS 03R440 FLOWMAX® Airspray paint circulating system pump



The 03R440 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).

### FEATURES

Performance :

- Differential air motor technology
- 2 air motor sizes
- Large fluid section

Productivity :

- Wall-mounted air motor design
- Divorced fluid section
- Visual checking of any lubricant color changes

Sustainability :

- Use of a **SAMES KREMLIN** bellow instead of a lubricant cup
- Stainless steel and carbide design

### BENEFITS

Performance:

- Virtually no maintenance
- Optimal pressure for each application
- Ideal for circulating or to handle several guns

Productivity :

- Fast in situ hydraulic disassembly
- Easy and fast maintenance
- Possibility of programing maintenance operations

Sustainability :

- Extended lifetime up to 10.000.000 cycles and clean paint kitchen environment
- Optimized wear resistance

### 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

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

### CONFIGURATION OF THE PCS 03R440 PAINT PUMP

Mounting	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

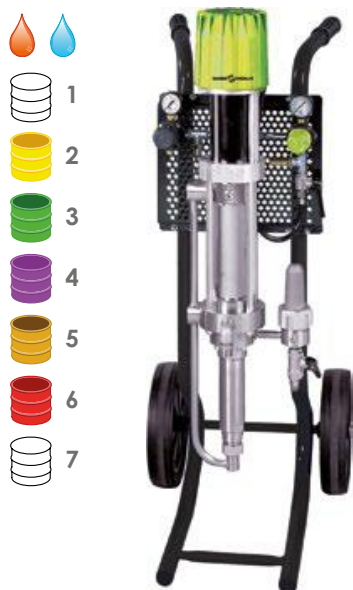
### KITS

Description	Part number
GT seal kit	144.990.090
PU seal kit	144.990.130
Maintenance kit (GT seals)	144.990.595
Maintenance kit (PU seals)	144.990.695
Cup kit (including circulation)	144.990.530

### LUBRICANTS

Description	Part number
Lubricant T can (2 liters)	149.990.001
Kit of 3 lubricant T can (2 liters)	151.260.820

# 04F240 FLOWMAX® Airspray paint pump



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

## FEATURES

- Sealing done by one large stroke bellow
- Ergonomic design of fluid passages
- Stainless steel design
- Balanced fluid section
- Mobile piston seal

## BENEFITS

- 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
- Fluid discharge without retention of a wide range of coating materials
- Compatible with water-based materials
- Constant fluid output pressure
- Excellent suction capacity

## SPECIFICATIONS

Pressure ratio	4/1	
Fluid volume per cycle (cm <sup>3</sup> )	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	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	Polyethylene
	Upper and lower	GT polyethylene
Wetted parts	Stainless steel	
Weight (kg)	27	
Height (cm)	104	
Width (cm)	40	
Depth (cm)	21	

## FITTINGS

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

## CONFIGURATION OF THE AIRSPRAY 04F240 FLOWMAX® PAINT PUMP

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

## CARTS AND RODS (SUCTION AND FLUSHING)

Description	Part number
Two Post Cart w/o plate	051.221.000
Two Post Pump Mounting Plate	056.100.199
Easyflow suction rod Ø25 plunging tube length 600 mm	149.596.150
Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums)	149.596.160
Stainless steel flushing rod F18 x 125	049.596.000

# PCS 04F440 FLOWMAX® Airspray paint pump



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

## FEATURES

- Sealing done by one large stroke bellow
- Ergonomic design of fluid passages
- Stainless steel design
- Balanced fluid section
- Mobile piston seal

## BENEFITS

- 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
- Fluid discharge without retention of a wide range of coating materials
- Compatible with water-based materials
- Constant fluid output pressure
- Excellent suction capacity

## SPECIFICATIONS

Pressure ratio	4/1	
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	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

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

## CONFIGURATION OF THE PCS 04F440 FLOWMAX® PAINT PUMP

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

## CARTS, FILTER AND RODS (SUCTION AND FLUSHING)

Description	Part number
Two Reinforced Arms w/o mounting plate	051.231.000
Suction rod Ø25 plunging tube length 600 mm	049.597.100
Stainless steel Accumulator equipped filter 3/4"	155.581.400
Stainless steel flushing rod F18 x 125	049.596.000

# PCS 06R440 FLOWMAX® Airspray paint circulating system pump



The 03R440 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).

## FEATURES

### Performance :

- Différential air motor technology
- 2 air motor sizes
- Large fluid section

### Productivity :

- Wall-mounted air motor design
- Divorced fluid section
- Visual checking of any lubricant color changes

### Sustainability :

- Use of a **SAMES KREMLIN** bellow instead of a lubricant cup
- Stainless steel and carbide design

## BENEFITS

### Performance :

- Virtually no maintenance
- Optimal pressure for each application
- Ideal for circulating or to handle several guns

### Productivity :

- Fast in situ hydraulic disassembly
- Easy and fast maintenance
- Possibility of programing maintenance operations

### Sustainability :

- Extended lifetime up to 10.000.000 cycles and clean paint kitchen environment
- Optimized wear resistance

## CARACTÉRISTIQUES

Rapport pression	6/1
Volume produit par cycle (cm³)	440
Nombre de cycles par litre produit	2.3
Débit produit à 20 Cycles / mn (l/mn)	8.8
Débit libre (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 Joint GT ou joint PU lower 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

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

## CONFIGURATION OF THE PCS 06R440 PAINT PUMP

Mounting	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

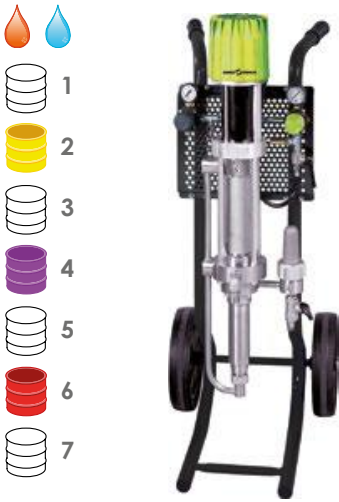
## KITS

Description	Part number
GT seal kit	144.990.090
PU seal kit	144.990.130
Maintenance kit (GT seals)	144.990.595
Maintenance kit (PU seals)	144.990.695
Cup kit (including circulation)	144.990.530

Description	Part number
Lubricant T can (2 liters)	149.990.001
Kit of 3 lubricant T can (2 liters)	151.260.820

# 08F240 FLOWMAX® Airspray paint pump

For large production.  
The Turbo air motor is recommended for continued use.



## FEATURES

Sealing done by one large stroke bellow

## BENEFITS

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

Ergonomic design of fluid passages

Fluid discharge without retention of a wide range of coating materials

Stainless steel design

Compatible with water-based materials

Balanced fluid section

Constant fluid output pressure

Mobile piston seal

Excellent suction capacity

## FEATURES

Pressure ratio	08/1	
Fluid volume per cycle (cm <sup>3</sup> )	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	20.4	
Maximum air inlet pressure (bar)	6	
Maximum fluid pressure (bar)	48	
Maximum Fluid Temperature (°C)	50	
Sound level (dBA)	76	
Sealing packing	Bellows	Polyethylene
	Upper and lower	GT Polyethylene
Weight (kg) - wall-mounted	32	
Wetted parts	Stainless steel	
Height (cm)	105	
Width (cm)	40	
Depth (cm)	27	

## FITTINGS

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

## CONFIGURATION OF THE AIRSPRAY 08F240 FLOWMAX® PAINT PUMP - STAINLESS STEEL

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

## KITS

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

## CARTS AND RODS (SUCTION AND FLUSHING)

Description	Part number
Two Post Cart w/o plate	051.221.000
Two Post Pump Mounting Plate	056.100.199
Easyflow suction rod Ø25 plunging tube length 600 mm	149.596.150
Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums)	149.596.160
Stainless steel flushing rod F18 x 125	049.596.000
Fluid filter	155.580.300

# PCS 08F440 FLOWMAX® Airspray paint pump



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

## FEATURES

Sealing done by one large stroke bellows

Ergonomic design of fluid passages

Stainless steel design

Balanced fluid section

Mobile piston seal

## BENEFITS

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

Fluid discharge without retention of a wide range of coating materials

Compatible with water-based materials

Constant fluid output pressure

Excellent suction capacity

## SPECIFICATIONS

Pressure ratio	8/1
Fluid volume per cycle (cm <sup>3</sup> )	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	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

## FITTINGS

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

## CONFIGURATION OF THE PCS 08F440 FLOWMAX® PAINT PUMP - STAINLESS STEEL

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

## CART, FILTER AND ROD (SUCTION AND FLUSHING)

Description	Part number
Two Reinforced Arms w/o mounting plate	051.231.000
Pump bracket	051.341.206
Suction rod Ø25 plunging tube length 600 mm	049.597.100
Stainless steel Accumulator equipped filter 3/4"	155.581.400
Stainless steel flushing rod F18 x 125	049.596.000





## FUNNELS WITH REMOVABLE STRAINERS FOR PRESSURE POTS

### FUNNELS

Description	Diameter (mm)	Use	Part number
Large funnels with 2 strainers (510 and 210 $\mu$ )	400	10 L - 30 L	057.110.000
Small funnels with 2 strainers (510 and 210 $\mu$ )	180	5 L	057.090.000

### STRAINERS

Description	Diameter (mm)	Size ( $\mu$ )	Part number
Spare element for large funnel	200	210	057.110.200
	200	510	057.110.100
Spare strainer for small funnel	75	210	057.090.200
	75	510	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 <sup>(1)</sup> - in option for galvanized pressure pots	5	Ø 175	052.440.002
	10	Ø 250	052.010.022
	30	Ø 320	052.050.013
EPDM cover seal <sup>(1)</sup> - in option for stainless steel pressure pots	50	Ø 400	052.130.009
	15-30-52	Ø 290	92009

(1) Recommended with acetone products

### REGULATORS

Description	Part number
Red knob regulator	016.240.000
2 regulators 1/4" with isolating valves 2 manometers, 1 inlet valve - 1 outlet valve M 1/4" NPS	019.400.000
2 regulators (1/4" + 1/2") with isolating valves 2 manometers, 1 inlet valve - 2 outlet valves M 1/4" NPS	019.390.000

### MOTORIZED AGITATOR FOR GALVANIZED PRESSURE POTS

Description	Capacity (L)	Part number
10 L	10	052.220.055
30 L	30	052.126.010
52 L	50	052.220.050

# 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 (XXX in³)			0.390 L (XXX in³)			
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 480V 3500W M3/4 JIC	M 3/4 JIC	1,4	440	3500	SST	500	15-90	156.160.070

Accessories for hot circulation



**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 airspray guns	F 3/8" NPS	M 1/4" NPS	129.029.915



**CIRCULATION VALVE- BARE - STAINLESS STEEL BODY**

Allowing paint circulation at the pump bottom (piston pump)

**STAINLESS STEEL BODY CIRCULATION VALVE PART NUMBERS**

Description	Inlet fitting	Outlet fitting	Purge	Part number
Stainless steel circulation valve	F 1/4" NPS	F 1/4" BSP	F 1/8" BSP	149.220.420

**STAINLESS STEEL BODY CIRCULATION VALVE - MAINTENANCE KIT PART NUMBERS**

Description	Part number
Maintenance kit	049.220.450



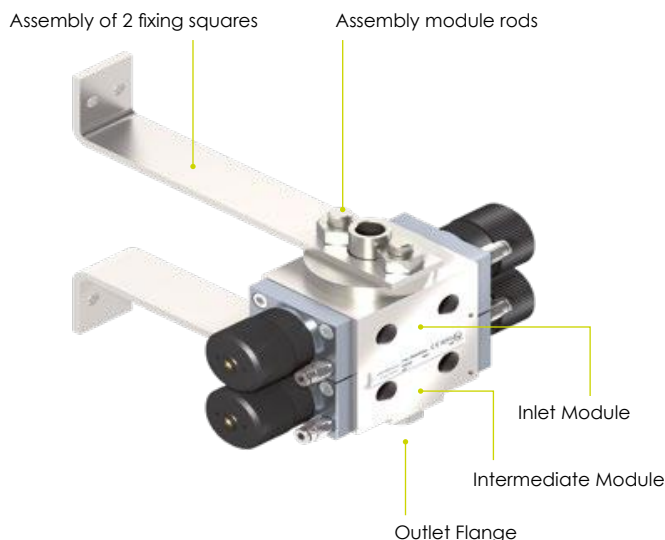
**CIRCULATION VALVE - STAINLESS STEEL**

Allows you to set the perfect output for circulation.  
Max. fluid pressure : 240 bar.

**STAINLESS STEEL CIRCULATION VALVES PART NUMBERS**

Pump intake	Thread		Back fitting	Flushing valve	Flushing rod M 18 x 125	Part number
	Rod					
F 26 x 125	M 26 x 125	M 1/2 JIC	•	•	051.314.050	
M 1"G	M 38 x 150	M 3/4 JIC	•	•	051.341.150	

# CTM Color Change Valves



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

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

NB OF COLORS UP TO	NUMBER OF ELEMENT TO ORDER								
	END MODULE (INLET)	INTER-MEDIATE MODULES	OULTET FLANGE	FIXING SQUARE KITS	ROD ASSEMBLY FOR				
					1 MODULE	2 MO-DULES	3 MO-DULES	4 MO-DULES	5 MO-DULES
2	1	-	1	1	1	-	-	-	-
4	1	1	1	1	-	1	-	-	-
6	1	2	1	1	-	-	1	-	-
8	1	3	1	1	-	-	-	1	-
10	1	4	1	1	-	-	-	-	1

## CTM VALVE SPECIFICATIONS

Description	CTM AIRMIX®
Max pressure (bar)	120-200
Ø of passage (mm)	6
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	Part number
Modules Airmix®	End module (inlet) - 120 bar	155.535.300
	Intermediate module - 120 bar	155.535.400
	End module (inlet) - 200 bar	155.535.350
	Intermediate module - 200 bar	155.535.450
	Outlet flange	155.535.500
	End module (inlet) - stainless steel (316 L) - 200 bar	155.536.200
	Intermediate module - stainless steel (316 L) - 200 bar	155.536.320
	Outlet flange - stainless steel (316 L)	155.535.410

Assembly module rods comes with outlet module:

	Rod assembly 1 module (1 end + 1 flange)	155.535.610
	Rod assembly 2 modules (1 end + 1 intermediate + 1 flange)	155.535.620
	Rod assembly 3 modules (1 end + 2 intermediate + 1 flange)	155.535.630
	Rod assembly 4 modules (1 end + 3 intermediate + 1 flange)	155.535.640
	Rod assembly 5 modules (1 end + 4 intermediate + 1 flange)	155.535.650
	Assembly of 2 fixing squares	155.535.700



**PRESSURE REGULATOR - LOW PRESSURE MANUAL CONTROL**

Made entirely out of stainless steel, easy to flush.

CHARACTERISTICS		
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

SMALL PASSAGE REGULATOR - FITTINGS		
Fitting	Fluid Inlet	F 1/4 NPS
	Fluid Outlet	F 1/4 BSP (x2)

LARGE PASSAGE REGULATOR - FITTINGS		
Fitting	Fluid inlet (w/o adaptator)	M 1/4 BSP
	Fluid Outlet	F 1/4 BSP (x2)

**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
Bracket			155.610.576



Piloted regulator manual drive and integrated pilot

**LOW PRESSURE REGULATOR WITH MANUAL DRIVE AND INTEGRATED PILOT**

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

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

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

**CONFIGURATION**

Description	Weight (kg)	Stainless steel ball	Material	Part number
Low pressure regulator with pressure gauge	1.6	Ø 9	Stainless steel	155.610.060
Bracket				016.200.010

Airspray spraying

Plural component pumps and machines

Fittings and air treatment

**PRESSURE REGULATOR - PILOTED LOW PRESSURE**

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

CHARACTERISTICS			
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		
Fitting	Fluid Inlet	F 1/4" NPS
	Fluid Inlet (abrasive materials)	F 3/8" NPS
	Fluid Outlet	F 1/4" NPS
	Fluid Outlet (abrasive materials)	F 3/8" NPS
	Air inlet (command)	F 1/8" NPS
	Air inlet (command)(abrasive materials)	1/4"

LARGE PASSAGE REGULATOR - FITTINGS		
Fitting	Fluid Inlet	M 1/4" BSP + (M18x125, M3/8" NPS, M3/8" BSP)
	Fluid Outlet	F 1/4" BSP
	Air inlet (command)	F 1/8" BSP

**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
Bracket				016.610.576



Piloted regulator non-stick coating

**CONFIGURATION NON STICK COATING**

Description	Stainless steel ball	Material	Part number
Piloted non-stick coating pressure regulator	Ø 11	Stainless steel large passages	055.370.100
Bracket			016.200.010

**PRESSURE REGULATOR - BACK LOW PRESSURE**

Available in stainless steel manual control version.



**CHARACTERISTICS**

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)

**CONFIGURATION**

Description	Part number
Back pressure regulator	155.610.100
Options:	-
- Wall bracket	016.200.010
- Pressure gauge: stainless MF 1/4 elbow	050.470.101
Stainless steel tube	050.081.701
Stainless steel shroud	050.470.301
Gauge	910.011.402

**INLINE FILTER**

**CONFIGURATION**

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

**FILTER 60 BAR**

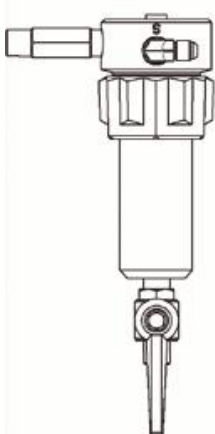
**CONFIGURATION**

Description	Part number
Stainless steel filter fitting length 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

**EQUIPPED FILTER**

Description	Maximum fluid pressure (bar)	Stainless steel screen for filter	Thread			Part number
			Inlet	Outlet	Drain	
3/8" stainless steel filter-medium pressure	60	6	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	60	6	M 1/4" NPT	M 1/2" JIC <sup>(1)</sup>	M 18x125	155.580.510

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





## STRAINERS FOR SUCTION RODS

### 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

## SCREEN AND CARTRIDGES FOR FLUID FILTER

### SCREEN CONFIGURATION (FILTRATION SURFACE 65 CM<sup>2</sup>)

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



## 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

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**

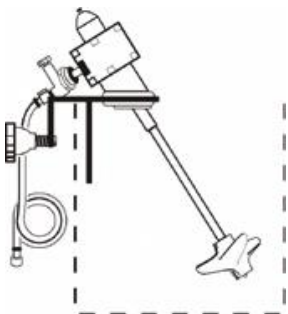
Description	Elevator height (mm)	Agitator rod length (mm)	Paddle diameter (mm)	Cover diameter (mm)	Part number
Elevator for 20 -40 l drums	1024 (min) - 1500 (max)	-	-	-	151.081.000
Agitator for 20 -40 l drums	-	400	134	-	154.261.700
Cover for 20 -40 l drums	-	-	-	400	154.261.600
Suction/exhaust kit	-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

# NOTES

Area with horizontal dotted lines for taking notes.

Airspray spraying

Plural component pumps and machines

Fittings and air treatment

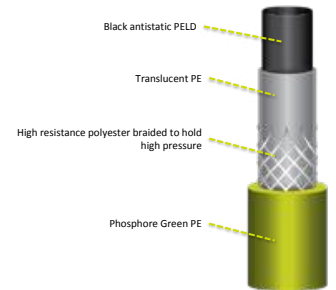
# Fluid hoses

**SAMES KREMLIN** standard fluid hoses (phosphore green) are:

- The Lightest and most Flexible on the Market : they make any gun easy to handle
- 100% Antistatic : ATEX certified
- made of several layers, internal and external are in Polyurethane: resist to the majority of solvents

**HOSES CONFIGURATION**

	Small Diameter	Medium Diameter	Large Diameter
Resistivity	< 10 <sup>6</sup> Ω/m : Antistatic		
ATEX certification	Yes		
Maximum working fluid pressure (Bar)	18		
Working temperature (°C)	-20 to +50		
Weight without fitting (grams / meter)	31	44	92
Flexibility: Bending Radius (mm)	15	25	35
Internal Diameter (mm)	3,2	6,4	9,5
External Diameter (mm)	7,3	10	14,8
Thickness (mm)	2	1,8	2,65



**FLUID HOSE AVAILABLE CONFIGURATIONS**

Fittings assembled on the hose	Hose Length (meters)	Small Diameter (ID3.2)	Medium Diameter (ID6.5)	Large Diameter (ID9.5)
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	250	-	050.362.005	-
	450	050.360.003	-	-

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 AVAILABLE OFFER**

Designation	Small Diameter (ID6.5)	Medium Diameter (ID8.0)	Large Diameter (ID9.5)
Complete fitting (A+B+C) to crimp 1/4NPS	050.231.710	050.231.705	-
Complete fitting (A+B+C) to crimp 3/8NPS	050.231.711	050.231.714	050.231.713
Pack of 10 spare Crimp rings ( C )	906.311.239	906.311.237	906.311.241
Manual Crimper	906.311.202		



**MAIN ACCESSORIES**

Designation	Part number
M Clip (pack of 5)	129.725.080
Protective sleeve (Diameter: 40mm, length: 10m)	129.270.087



# Air hoses

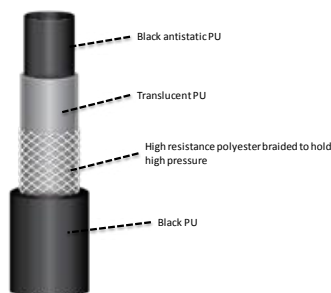
**SAMES KREMLIN** standard air hoses (black) are:

- The Lightest and most Flexible on the Market: they make any gun easy to handle
- 100% Antistatic: ATEX certified
- made of several layers, internal and external are in Polyethylene

We recommend an ID8mm (Medium Diameter) hose for HVLP and LVLP Airspray applications

### HOSES CONFIGURATION

	Small Diameter	Medium Diameter	Large Diameter
Color of the external layer	Black		
Resistivity	< 10 <sup>6</sup> Ω/m : Antistatic		
ATEX certification	Yes		
Maximum working fluid pressure (Bar)	14		
Working temperature (°C)	-20 to +60		
Weight without fitting (grams / meter)	61	72	100
Flexibility: Bending Radius (mm)	30	35	40
Internal Diameter (mm)	6,5	8,5	9,5
External Diameter (mm)	10,5	12	14
Thickness (mm)	2	2	2,25



### AIR HOSE AVAILABLE CONFIGURATIONS

Fittings assembled on the hose	Hose Length (meters)	Small Diameter (ID6.5)	Medium Diameter (ID8.0)	Large Diameter (ID9.5)
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
	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
152,5		050.382.005	050.389.005	050.381.007
No Fitting + Hose on Drum	200	050.382.006	050.389.006	-
	250	-	-	-

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 AVAILABLE OFFER

Designation	Small Diameter (ID6.5)	Medium Diameter (ID8.0)	Large Diameter (ID9.5)
Complete fitting (A+B+C) to crimp 1/4NPS	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		

A complete fitting to crimp always includes: a nut, a nipple and a crimp ring



### MAIN ACCESSORIES

Designation	Part number
M Clip (pack of 5)	129.725.080
Protective sleeve (Diameter: 40mm, length: 10m)	129.270.087

# Non conductive hoses

## POLYAMIDE FLUID HOSE

Polyamide fluid hoses are available with or without fittings.

**SAMES KREMLIN** offers for these hoses a range of reusable fittings, very simple to assemble on your own because they need no crimper

**SAMES KREMLIN** Polyamide fluid hoses (transparent white) are dedicated to very thick materials like Glue, as it reduced the pressure loss

Color of the external layer	Transparent White
Conductive	No
Maximum working fluid pressure (Bar)	10
Working temperature	Up to 60°C

## POLYAMIDE FLUID HOSE AVAILABLE CONFIGURATIONS

Fittings assembled on the hose	Hose Length (meters)	Small Diameter (ID6.5)	Medium Diameter (ID8.0)
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 REUSABLE FITTINGS AVAILABLE OFFER

Designation	Small Diameter (ID6.5)	Medium Diameter (ID8.0)
Complete Reusable Fitting 1/4" NPS	050.231.450	-
Complete Reusable Fitting 3/8" NPS	050.231.350	905.140.103

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

## AIR HOSES TO CLIP

Non-conductive Air hoses to clip on automatic guns or any device with a quick connect fitting

Air hoses to clip are really simple, as they need no fitting to be used

Air hoses to clip are available in coils of 25m, made to be cut at the exact length you need

Air hoses to clip are made in Polyurethane or Polyamide

Color of the external layer	Various (see part number)
Conductive	No
Maximum working fluid pressure (Bar)	10
Working temperature	Up to 60°C

Diameter (Internal x External) in mm	Length	Colour	Material	Part Number
2.7 x 4	25m	Transparent	Polyamide	050.370.102
4 x 6		Transparent	Polyamide	050.370.103
4 x 6		Blue	Polyurethane	050.372.213
6 x 8		Transparent	Polyamide	050.370.104
6 x 8		Blue	Polyurethane	050.372.214
8 x 10		Black	Polyamide	050.372.125
8 x 12		Black	Polyurethane	050.372.226



**PRODUCT HOSES FOR SUCTION ROD**  
**HOSE FOR SUCTION ROD**

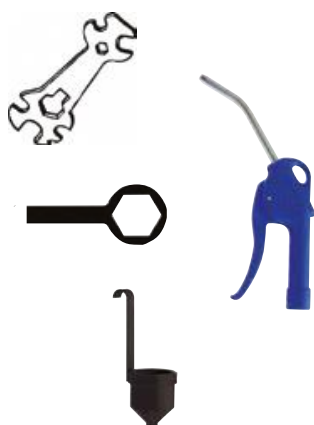
Designation	Part number		
	Ø 9.5 mm	Ø 19 mm	Ø 25 mm
Polyethylene hose sleeve			
5 m cut	050.361.005	050.366.051	050.367.001
15 m cut	050.361.004	050.366.052	-
25 m cut	050.361.001	050.366.053	050.367.003
Grooved conical fitting	050.140.517	050.140.545	050.140.543
Nickeled nut fitting	050.271.303	050.271.502	049.595.306
SK collar	906.311.234	906.311.207	906.311.204

**LUBRICANTS AND GREASES FOR PUMPS**

**LUBRICANT FOR PUMP PACKINGS**



Description	Part number
<b>Lubricants for pump fittings</b>	
T lubricant (125 ml) can for solvent-based paints	149.990.020
Kit of 3 T lubricant cans (2L each)	151.260.820
P lubricant can (2L each) (PU products)	149.990.022
Kit of 3 P lubricant cans (2L each) (PU products)	151.260.823
<b>Grease</b>	
Vaseline 1 kg	560.440.002
Box of 450 g PTFE grease	560.440.001
Box of 1kg grease special air motor seals	560.440.001
Tube 20g grease special air motor seals	560.440.005
Teflon® grease tube 10 ml	560.440.105
Box of grease (450g)	560.420.005
<b>Glue</b>	
Sealing glue tube	554.180.015
Low strength anaerobic adhesive tube	554.180.010



**MISCELLANEOUS**

**PART NUMBERS**

Description	Part number
M22/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 <b>SAMES KREMLIN</b> logo (75mm x 100m)	571.141.003



**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 (Respiratorws : EN 140, Filters : EN 14393)



## FEATURES

Respirator body made of silicone  
Equipped with large inlet and outlet valves  
Double fixing straps  
Double filters  
Three high performance filters type available (solvented, water-based or multi with isocyanate materials)

## BENEFITS

Hypoallergenic and high comfort  
Easy breathing  
Comfortable  
Performance (large diameter), visibility and high level of safety  
For an optimal protection whatever the type of paint used

## CONFIGURATION OF THE RC 756 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 & 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

# NOTES

A series of horizontal dotted lines for taking notes.

Airspray spraying

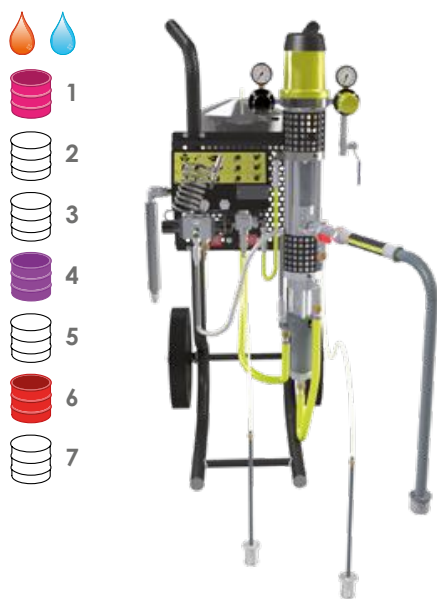
Plural component pumps and machines

Fittings and air treatment



# PLURAL COMPONENT PUMPS AND MACHINES

# PU 2125 F pump



The Flowmax<sup>®</sup> 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 HTi, HPA and HTV spraying.

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

PU 2125 F are available in 5 mixing ratio versions : 1/1, 2/1, 3/1, 4/1 or 5/1.

### FEATURES

Sealing done by a FLOWMAX<sup>®</sup> bellow on the catalyst side

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

Semi-automatic manifold with synoptic

Catalyst re-circulation

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

Cart-mounted pump

### BENEFITS

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

Ready to use pump

Safe operation  
User-friendly

Quick color change and flushing without catalyst loss

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

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 à 1.6/1
Max Fluid viscosity in CA 4	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)	
				4 bar	6 bar
PU 2125 F 1/1	1/1	3.5	0.9/1	3.6	5.4
PU 2125 F 2/1	2/1	2.6	1.2/1	4.8	7.2
PU 2125 F 3/1	3/1	2.4	1.4/1	5.6	8.4
PU 2125 F 4/1	4/1	2.2	1.5/1	6	9
PU 2125 F 5/1	5/1	2.1	1.6/1	6.4	9.6

## PU 2125 F pump

**FITTINGS**

Fitting	Air inlet (valve)	F 3/8" BSP
	Air outlet (atomization air)	M 1/4" NPS
	Fluid Outlet	M 1/2" JIC

**PU 2125F PART NUMBERS**

Description	Part number
PU 2125F pump cart-mounted - Dosing ratio 1/1	151.586.100
PU 2125F pump cart-mounted - Dosing ratio 2/1	151.586.110
PU 2125F pump cart-mounted - Dosing ratio 3/1	151.586.120
PU 2125F pump cart-mounted - Dosing ratio 4/1	151.586.130
PU 2125F pump cart-mounted - Dosing ratio 5/1	151.586.140

# PU 3000 2I



The PU 3000, innovative economical and patented solution, combines electronic control and mechanical metering, ready to use.

The user-friendly control box allows the operator to intuitively learn how to operate the machine.

**PATENTED :** The innovative pump change-over - FREE PULSE ELECTRONIC technology (FPE) - features a perfectly constant output and a +/- 1% metering accuracy for an outstanding finish and operator peace of mind. Electronic dosing constantly monitors the actual material consumption of products and calculates the VOC.

The machine can be installed in an ATEX 1 or 2 zone to be in close proximity to the operator. The control box must be installed in safe zone (ATEX Directive). PU 3000 2I is available in HTi / HPA / HTV versions.

## 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 Possibility to print records	Fluid and solvent consumptions stored in memory
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 HTi / HPA / HTV spraying technologies	
Very low flow rate from 10cc	

## SPECIFICATIONS

Electrical Power	115/230V - 75W
Maximum air inlet pressure (bar)	6
Fluid viscosity	30 - 8000 cps
Mixing accuracy	+/- 1%
Mixed fluid output	PU 3000 2I: 10cc at 2000 cc / min
Mixing ratio	1/1 - 20/1 (100% - 5%)
Wetted parts	Stainless Steel and PEHD



## PU 3000 2l

## TECHNICAL CHARACTERISTICS

Description	Pressure ratio	Air motor type	Maximum fluid pressure (bar)
PU 3000 - Airspray versions	1/1 . 7/1	1500	0/6 - 0/40

## PU 3000 DIMENSIONS

Description	Height (cm)	Depth (cm)	Width (cm)
AIRSPRAY versions	PU 3000 2l: 130	70	86
Control Box	28.6	14.3	36.7

## FITTING

Fitting	Air inlet (valve)	F 3/4" BSP
	Air Outlet	F 1/4" BSP
	Fluid Outlet	F 3/4 JIC

## PU 3000 2L PART NUMBERS

Description	Part number
PU 3000 - HTi, HPA and HTV versions - 100cc - 2l	155.680.140

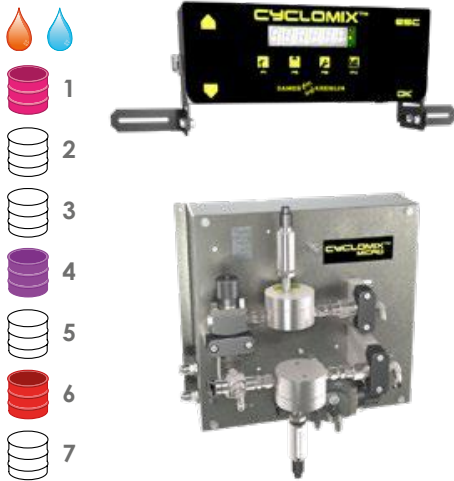
## PU 3000 OPTION PART NUMBERS

Description	Part number
Spray booth glass mounting kit	155.660.340

## PU 3000 FLUSHING PUMPS PART NUMBERS

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



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

User-friendly precise and control mixing of 2 components materials. With CYCLOMIX™ Micro, the mixing process is mastered and guaranteed. All technical fluid and application characteristics are fully configurable. Once programmed, CYCLOMIX™ Micro will automatically handle all parameters. The programming is user-friendly and quick, with data in-putting by magnetic signal. Flushing and maintenance are very simple. In addition, the system can be controlled from inside the booth.

CYCLOMIX™ Micro+ allows the flushing of the catalyst fluid passages especially for water-based materials.

For acid catalyst it exists specific references for a CYCLOMIX™ Micro+ PH. Safe zone installation where applicable (Directive ATEX).

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	Solvent savings and environmental protection
Several flushing sequence available : only Base side; Base side then Catalyst ; Catalyst side then Base side	
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

## 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	single component and 0,6/1 to 20/1
Mixing accuracy	1%
Maximum number of gun to be fitted	1
Mixed fluid output	100 - 2000 cm³/mn
Fluid viscosity	30 - 5000 cps
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

Description	Fitting
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

## CYCLOMIX™ MICRO, MICRO+ AND MICRO+ PH PART NUMBERS

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 CYCLOMIX™ MICRO, MICRO+ AND MICRO+ PH PART NUMBERS

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



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

CYCLOMIX™ electronic dosing to handle several colors: CYCLOMIX™ Multi can handle up to 7 different bases and 3 catalysts.

Modular design CYCLOMIX™ Multi can be positioned in zone 1 or 2 (Directive ATEX). The control cabinet must be installed in safe zone (ATEX Directive).

Programming and use are user-friendly by means of a large touch screen.

For acid catalyst it exists specific references for a CYCLOMIX™ Multi PH.

## 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 by beakers batch mode	Visual control of mixing accuracy 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

## SPECIFICATIONS

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 (1.60% to 5%)
Mixing accuracy	+/- 1%
Maximum number of gun to be fitted	1
Solvent flowrate (m³/h)	100 - 2000 cm³/mn
Mixed fluid output	100 - 2000 cm³/mn
Fluid viscosity	30 - 5000 cps
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

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

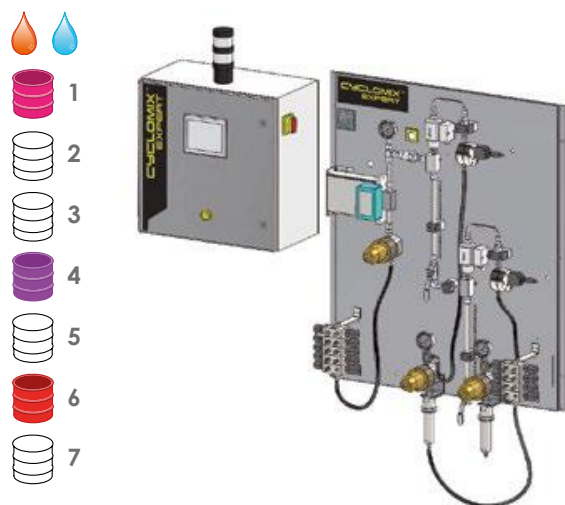
## CYCLOMIX™ MULTI PART NUMBERS

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 PART NUMBER CYCLOMIX™ MULTI

Description	Part number
Autowash	155.660.300

# CYCLOMIX™ Expert



Supplied without pumps or guns to be ordered separately

CYCLOMIX™ Expert, industrial and evolutive solution, innovative, guarantees total quality of production.

CYCLOMIX™ Expert can manage a total up to 24 components (bases, catalysts, flushing solvents. It can handle mono, bi or tri-component materials

The innovative dosing process - ultra fast injection valve - offers unequalled mixing quality and dosing accuracy. The machine can handle 2 working stations at the same time. The machine programming by means of a color screen with ratio/tolerance data assist management - up to 15 languages - has been designed to bring comfort and easiness in the case of product or parameters modifications. The electronic technology brings total monitoring and follow-up of real material consumptions, VOC with recording possibility to ensure tracability.

CYCLOMIX™ Expert can be fitted with different flowmeters technologies (ex : mass flowmeter for difficult paint to handle or water-based materials). The possibility to use Flowmax® technology - developed by **SAMES KREMLIN** - bellows instead of traditional packings on the catalyst side brings total reliability for moisture-sensitive isocyanates catalysts.

CYCLOMIX™ Expert is available in Airspray versions to meet all market needs, in manual or automatic spraying.

The fluid manifold can be set-up in the spraying area in order to reduce the paint hoses length. Safe zone location (ATEX Directive) for the control cabinet.

Options are available to upgrade the machine depending on each customer configuration.

- Remote color screen control cabinet  
Accessible directly from the working station (spray booth), it allows the operator to manage production, color changes, flushing...

- Automatic Flush box  
Located in the spraying area closed to the painter, it enables the painter to be hands free while system is flushing.

## CYCLOMIX™ Expert

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 (in standard)	0.6/1 at 30/1
Mixing accuracy	+/- 1%
Mixed fluid output	50 - 6000 cm <sup>3</sup> /mn
Fluid viscosity	30 - 5000 cps
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
Height (cm)	60
Depth (cm)	40
Weight (kg)	25

## CYCLOMIX™ EXPERT PART NUMBER

Description	Part number
CYCLOMIX™ Expert	Please consult us



# NOTES

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# FITTINGS AND AIR TREATMENT

**MALE TO MALE CONNECTION PMAX: 20 BAR**

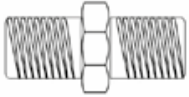
Max Pressure (20 bar)

**METRICAL FITTINGS - 20 BAR**

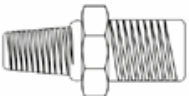


Male/Male	M 14 x 125	M 18 x 125
M 14 x 125		050.102.133 050.102.142 <sup>(1)</sup>
M 18 x 125	050.102.133 050.102.142 <sup>(1)</sup>	050.102.102

**METRICAL ADAPTORS TOWARDS BSP - 20 BAR**



Male/Male	M 14 x 125	M 18 x 125	M 26 x 125
G 1/8" (BSP) (5 x 10)	050.102.412		
G 1/4" (BSP) (8 x 13)	050.102.405 050.102.441 <sup>(1)</sup>	050.102.408 050.102.444 <sup>(1)</sup>	
G 3/8" (BSP) (12 x 17)	050.102.410	050.102.411 050.102.436 <sup>(1)</sup>	
G 1/2" (BSP) (15 x 21)	050.102.513	050.102.406 050.102.418 <sup>(1)</sup>	050.102.402 050.102.437 <sup>(1)</sup>
G 3/4" (BSP) (20 x 27)		050.102.429	050.102.407



**METRICAL ADAPTORS TOWARDS NPT - 20 BAR**

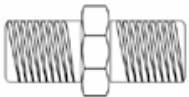
Male/Male	M 26 x 125
1/2" NPT	050.102.507

**MALE TO MALE CONNECTION PMAX: 60 BAR**

**FITTINGS BSP (GAZ) - 60 BAR**

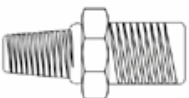


Male/Male	G 1/8" (5 x 10)	G 1/4" (8 x 13)	G 3/8" (12 x 17)	G 1/2" (15 x 21)	G 3/4" (20 x 27)
G 1/8" (5 x 10)		906.314.207 <sup>(1)</sup>			
G 1/4" (8 x 13)	906.314.207 <sup>(1)</sup>	050.102.213 906.314.203 <sup>(1)</sup>	904.523.003 906.314.204 <sup>(1)</sup>	050.102.211	
G 3/8" (12 x 17)		904.523.003 906.314.204 <sup>(1)</sup>	050.102.214 906.314.202 <sup>(1)</sup>	904.523.006 906.314.205 <sup>(1)</sup>	
G 1/2" (15 x 21)		050.102.211 050.102.647 <sup>(1)</sup>	904.523.006 906.314.205 <sup>(1)</sup>	050.102.212	904.523.012
G 3/4" (20 x 27)				904.523.012	050.102.215



**FITTINGS NPT - 60 BAR**

Male/Male	1/4" NPT	3/8" NPT
1/4" NPT		905.083.201
3/8" NPT	905.083.201	



**FITTINGS NPS - 60 BAR**

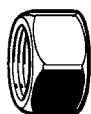
Male/Male	1/4" NPS	3/8" NPS
1/4" NPS	050.102.630	050.102.632
3/8" NPS	050.102.632	050.102.631 050.102.652 <sup>(1)</sup>

**ADAPTOR NPS TOWARDS BSP (GAZ) - 60 BAR**

Male/Male	1/4" NPS	3/8" NPS
G 1/4" BSP	050.102.624 050.102.644 <sup>(1)</sup>	050.102.646 <sup>(1)</sup>
G 3/8" BSP	050.102.627 050.102.647 <sup>(1)</sup>	050.102.628 050.102.648 <sup>(1)</sup>
G 1/2" BSP	050.102.633	050.102.629 050.102.649 <sup>(1)</sup>
G 3/4" BSP		050.102.654 <sup>(1)</sup>

(1) Stainless steel fittings





**FEMALE TO FEMALE CONNECTION**

**P<sub>MAX</sub>: 60 BAR**

**FITTINGS BSP (GAZ) - 60 BAR**

Female/Female	G 1/4" (BSP)
G 1/4" (BSP) (8 x 13)	904.593.002
G 3/8" (BSP) (12 x 17)	904.503.003

**ADAPTOR BSP (GAZ) TOWARDS METRIC - 20 BAR**

Female/Female	G 1/4" (BSP)
M 14 x 125	050.221.401

**T FEMALE BSP (GAZ) - 60 BAR**

Description	Part number
Fittings 3 x G 1/4" (BSP) (8 x 13)	904.303.002
Fittings 3 x G 3/8" (BSP) (12 x 17)	904.303.003
Fittings 3 x G 1/2" (BSP) (15 x 21)	904.303.004
Fittings 3 x G 3/4" (BSP) (20 x 27)	904.303.006

**T FEMALE NPT - 60 BAR**

Description	Part number
Fittings 3 x 1/4" NPT	905.083.301

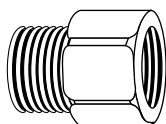
**MALE TO FEMALE CONNECTION**

**P<sub>MAX</sub>: 20 - 60 BAR**

**ADAPTOR NPS TOWARDS JIC, NPS AND METRIC - 20 BAR**

Male/Female	1/4" NPS	3/8" NPS
1/2" JIC	150.123.305 <sup>(1)</sup>	050.103.537 <sup>(1)</sup>
1/4" NPS	-	050.103.534 <sup>(1)</sup>
M 14 x 125	-	050.103.523 <sup>(1)</sup>

<sup>(1)</sup> Stainless steel fittings

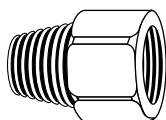


**FITTINGS BSP (GAZ) - 60 BAR**

Male/Female	G 1/4" (8 x 13)	G 3/8" (12 x 17)	G 3/4" (20 x 27)
G 1/4" (8 x 13)	050.123.205	904.533.003	-
G 3/8" (12 x 17)	904.513.003	-	-
G 1/2" (15 x 21)	904.513.005	-	904.533.009
G 3/4" (20 x 27)	904.513.011	904.513.012	-
G 1" (26 x 34)	-	-	904.513.012

**FITTINGS METRIC - 20 BAR**

Male/Female	M 14 x 125	M 18 x 125	M 26 x 125
M 14 x 125	-	050.123.109	-
M 18 x 125	050.123.101	-	050.123.110
M 26 x 125	-	050.123.106	-



**ADAPTOR METRIC TOWARDS NPS - 20 BAR**

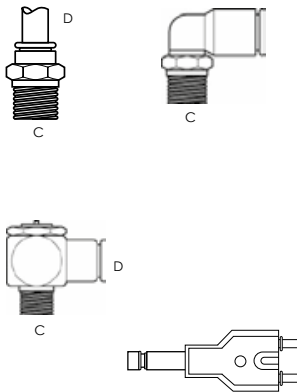
Male/Female	M 14 x 125	M 18 x 125
1/4" NPS	050.123.535	050.123.526
3/8" NPS	-	050.123.610

**ADAPTOR JIC TOWARDS METRIC - 20 BAR**

Male/Female	M 14 x 125	M 18 x 125
1/2" JIC	050.230.619	050.230.620

**ADAPTOR JIC TOWARDS NPS AND METRIC - 20 BAR**

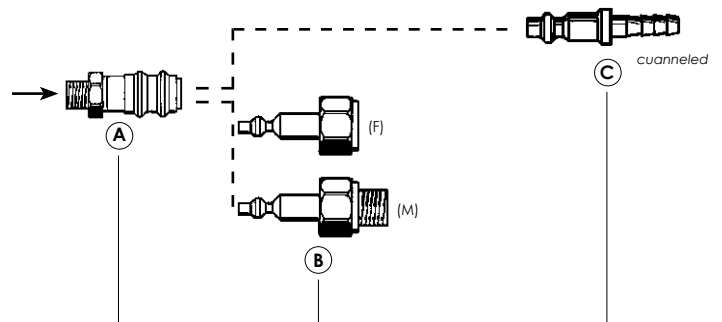
Male/Female	1/2" JIC
1/4" NPS	050.123.304
3/8" NPS	050.123.533
M 18 x 125	050.123.521



**QUICK FITTINGS FOR SMALL DIAMETER SPECIAL AIR HOSES  
CONFIGURATION FITTINGS**

C	D	Straight	Right angle 90°	T- piece
G 1/8" (5 x 10) BSP	4	905.120.907	905.120.926	-
G 1/8" (5 x 10) BSP	8	-	905.120.934	-
G 1/4" (8 x 13) BSP	4	-	905.120.927	-
G 1/4" (8 x 13) BSP	6	905.120.965	905.120.905	-
G 1/4" (8 x 13) BSP	8	905.120.904	905.120.912	905.120.920
6 x 8 hose T	T for hose 4 x 6	2,7 x 4 Hose T- piece		4 x 6/2,7 x 4 Reduction T- piece
905.120.915	905.120.903	905.120.957		905.120.928

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



**QUICK FITTINGS**

Type	Complete assembly A and B	Part A with built-in chutter valve	Part B	Part C for rubber hose Ø 7	Part C for rubber hose Ø 10
Ø5 (14x125)	905.030.405	905.030.102	905.030.406 (F)	905.030.203	905.030.204
Ø5 (1/4" BSP)	-	-	905.030.804 (M)	-	-
Ø5 (1/4" BSP)	-	-	905.030.803 (F)	-	-
Ø5 (1/4" NPS)	905.030.105	905.030.104	905.030.106 (F)	-	-
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**

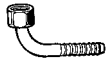
Type	Part A with on/off press button for hose Ø 8	Part C for hose Ø 8
Ø 5	905.030.801	905.030.802

**FITTINGS FOR LOW PRESSURE POLYAMIDE HOSES**

**FITTINGS CONFIGURATION**

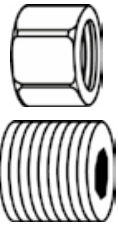
Thread size	Material	Hoses Inter. Diameter (mm)	Part number
M 3/8" NPS	Nickel plated brass	6.35 - 1/4	050.231.350
M 1/4" NPS	Nickel plated brass	6.35 - 1/4	050.231.450
M 3/8" NPS	Nickel plated brass	9.52 - 3/8	905.140.103

**CRIMP FITTINGS FOR LOW PRESSURE AIR HOSES**  
**FITTINGS CONFIGURATION**



Material	Thread size	Hoses Inter. Diameter (mm)	Part number	Collar
<b>Straight fittings</b>				
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
<b>Elbow fittings</b>				
Nickel plated brass	M 18 x 125	10	050.250.202	906.311.226
<b>Junction fittings without thread</b>				
Nickel plated brass	-	7	050.190.403	906.311.224
Nickel plated brass	-	10	050.190.401	906.311.226

**PLUGS PMAX: 20 - 60 BAR**  
**PLUGS CONFIGURATION**



Description	Part number
Male	Male
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

**MALE TO MALE FITTINGS (PROTECTIVE COATED STEEL) PMAX: 400 BAR**  
**FITTINGS CONFIGURATION**



Male/Male	1/2" JIC	3/4" JIC	7/8" JIC
1/2" JIC	050.102.301	905.160.201	550.914
3/4" JIC	905.160.201	905.160.202 - - 550.545	550.915
7/8" JIC	550.914	550.915	-

**MALE TO FEMALE FITTINGS (STAINLESS STEEL) PMAX: 360 BAR**  
**FITTINGS CONFIGURATION**



Male/Female	1/2" JIC
3/4" JIC	050.123.301

Airspray spraying

Plural component pumps and machines

Fittings and air treatment

**MALE TO MALE ADAPTERS: PMAX: 360 BAR  
PROTECTED STEEL FITTINGS CONFIGURATION**



Male/Male	1/2" JIC	3/4" JIC
1/4" NPT	000.972.025	905.160.212
3/8" NPT	000.972.028	905.160.206
1/2" NPT	-	905.160.204
3/4" NPT	-	905.160.203

**STAINLESS STEEL FITTINGS CONFIGURATION**

Male/Male	1/2" JIC	3/4" JIC
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

**PROTECTED STEEL FITTING CONFIGURATION**

Male/Male	1/2" JIC	3/4" JIC	7/16" JIC	7/8" JIC	1 1/16" JIC	1 5/16" JIC
1/8" G co	550.548	-	550.920	-	-	-
1/4" G co	550.542	-	-	-	-	-
3/8" G co	550.549	550.679	-	550.609	-	-
1/2" G co	-	550.544	-	550.540	550.903	-
3/4" G co	550.905	-	-	550.823	550.864	550.932
1" G co	-	-	-	-	550.900	550.901

**NICKEL-COATED FITTINGS CONFIGURATION**

Male/Male	1/2" JIC	3/4" JIC
3/8" NPT	050.470.202	905.160.103

**MALE TO FEMALE ELBOW FITTINGS  
PMAX: 360 BAR  
FITTINGS CONFIGURATION**



Male/Female (free nut)	1/2" JIC
1/2" JIC	905.160.101

**MALE TO MALE ELBOW FITTINGS (STAINLESS STEEL)  
PMAX: 360 BAR  
FITTINGS CONFIGURATION**



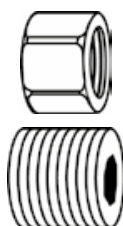
Male/Male	1/2" JIC	3/4" JIC
1/4" NPT	905.210.602	905.210.612
3/8" NPT	905.210.603	-
1/2" NPT	905.210.604	-
3/4" NPT	-	905.210.615

**MALE TO MALE ELBOW FITTINGS (PROTECTIVE COATED STEEL)  
PMAX: 360 BAR  
NPT FITTINGS CONFIGURATION**

Male/Male	1/2" JIC	3/4" JIC
1/8" NPT	905.160.105	-
1/4" NPT	-	905.160.102

**G CO FITTING CONFIGURATION**

Male/Male	1/2" JIC	3/4" JIC
1/4" G co	550.596	550.923
3/8" G co	551.819	-



**PLUGS PMAX: 360 BAR**

**PLUGS CONFIGURATION**

Description	Part number
Female 1/2" JIC	906.333.301
Male 1/8" NPT	906.333.108

**LOW PRESSURE VALVES**

**3 WAYS VALVE PART NUMBERS**

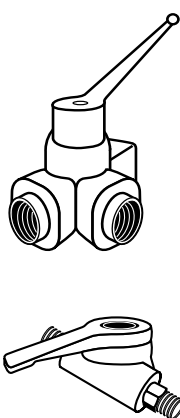
Description	Part number
3 x 1/4" BSP (female)	903.090.804
3 x 1/4" BSP (female) (stainless steel)	903.090.805

**2 WAYS MALE/MALE VALVE PART NUMBERS**

Description	Input	Output	Part number
Ball valve	(M) G 1/4" (8 x 13)	(M) M 14 x 125	050.070.205
Inlet (male) G 3/8" (12 x 17) outlet (male) M 14 x 125	(M) G 3/8" (12 x 17)	(M) M 1/4" NPS	050.070.211
Inlet (male) G 1/2" (15 x 21) outlet (male) M 18 x 125	(M) G 1/2" (15 x 21)	(M) M 18 x 125	050.070.204
Inlet (male) G 1/2" (15 x 21) outlet (male) de0101G 1/2 (15 x 21)	(M) G 1/2" (15 x 21)	(M) M 18 x 125	050.070.201
Inlet (male) G 3/8" (12 x 17) outlet (male) M 18 x 125	(M) G 3/8" (12 x 17)	(M) M 18 x 125	050.070.212

**2 WAYS FEMALE/FEMALE VALVE PART NUMBERS**

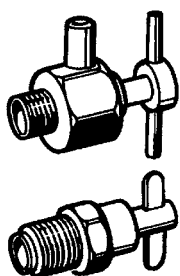
Description	Input	Output	Part number
Valve	(F) 1/4" BSP (8 x 13)	(F) 1/4" BSP (8 x 13)	903.090.806
Valve	(F) 3/8" BSP (12 x 17)	(F) 3/8" BSP (12 x 17)	903.090.206



**AIR BLEEDING VALVES**

**AIR BLEEDING VALVE PART NUMBER**

Description	Part number
Inlet thread (male) G 1/4" (8 x 13)	903.093.302



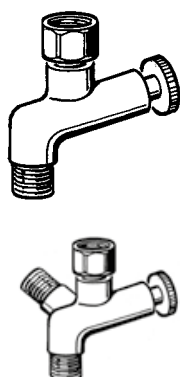
**NEEDLE VALVES**

**2 WAYS VALVE PART NUMBERS**

Description	Input	Output	Part number
Female/Male	M 14 x 125	M 14 x 125	050.070.179
Male/Male	G 1/4" (8 x 13)	M 14 x 125	050.070.101

**3 WAYS VALVE PART NUMBERS**

Description	Part number
Female/male/male M 14 x 125	050.070.401

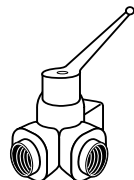




**HIGH PRESSURE FLUID VALVES**

**PART NUMBER**

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**

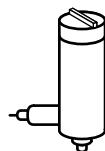
Description	Part number
3 x 1/4" BSP (female) (stainless steel)	903.091.006

**AIR LINE OUTPUT CONTROL VALVES**

**VALVE PART NUMBERS**



Description	Input	Output	Part number
Female/Male	G 1/4" (8 x 13)	G 1/8" (8 x 13)	050.070.190
Female/Male	M 14 x 125	M 14 x 125	050.070.179



**BLEEDING VALVES**

**BLEEDING VALVES PART NUMBERS**

Description	Input	Output	Maximum fluid pressure (bar)	Part number
Male/Male	G 1/4" (8 x 13)	M 18 x 125	400	000.760.000

**FITTINGS - GENERAL INFORMATION**

**DETAILS**

Denomination	Fitting characteristics	Geographical area	Max. operating pressure (bar)
M	cylindrical metric	France	20
G = BSP	conical gas (or cylindrical)	Europe - Asia	60
NPT	conical	USA - Asia	60
NPS	cylindrical	USA - Asia	60
JIC	cylindrical angle 74°	Universal	360



### AIR REGULATORS

**SAMES KREMLIN** offers 1/4", 1/2" and 3/4" Air regulators to fit every compressed air line

#### TECHNICAL CHARACTERISTICS

Outlet	1/4"	1/2"	3/4"
Max. inlet pressure (bar)	9	20	21
Max. output (m³/h)	25	210	360

#### BARE AIR REGULATOR

Max Pressure	3.5 Bar	5.5 Bar	9.0 Bar	10.0 Bar
Output	1/4"	1/4"	1/2"	1/4"
Phosphore knob	116.240.500	116.370.700	-	113.365.500
Black knob	116.380.700	116.390.500	016.200.000	116.360.500

#### AIR REGULATOR ASSEMBLY WITH GAUGE

Regulator	Max Pressure	Input / Output	Wall Bracket	Part Number
Black knob	5.5 Bar	1/4"	-	019.720.000
	10 Bar	1/2"	Yes	019.780.100

#### MAIN ACCESSORIES

Name	Details	Part Number
Wall bracket	Fix the regulator	016.180.010
Plug 1/4" GAS	Plug input/output of 1/4" reg	906.333.102

### DE 37 PURIFIER-REGULATOR WITH FILTER CARTRIDGES

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
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

#### PART NUMBERS

Description	Part number
Purifier with DE 37 regulator	015.240.000
Blue cartridge for water	015.230.500
Red cartridge 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.



Part 1

- Filter with trunnion 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
<b>Regulator with gauge</b>				
M 150/2	1/4"	1/4"	1000	004.601.100
M 250/3	1/2"	1/2"	5250	004.601.300
<b>Filter with polycarbonate tank</b>				
M 100/2	1/4"	1/4"	1760	004.603.100
M 200/2	3/8"	3/8"	7000	004.603.200
<b>Lubricator with polycarbonate tank</b>				
M 110/2	1/4"	1/4"	2500	004.604.100
M 210/3	1/2"	1/2"	5250	004.604.300

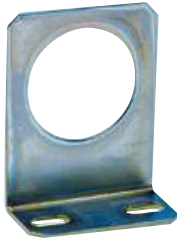
**REGULATORS, FILTERS, LUBRICATORS CONFIGURATION (PART 2)**

Type	Inlet diameter	Outlet diameter	Part number
Bare 3/4" regulator	3/4" G	3/4" G	91.530
Bare 3/4" regulator + filter	3/4" G	3/4" G	91.532
3/4" regulator with manometer Ø 62 mm	3/4" G	3/4" G	91.531
3/4" regulator with manometer Ø 62 mm + filter	3/4" G	3/4" G	91.533
Filter 3/4" regulator	3/4" G	3/4" G	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	1/4" G	1/4" G	91.555
1/4" regulator with manometer Ø 62 mm	1/4" G	1/4" G	91.552
1/4" regulator with manometer Ø 62 mm + filter	1/4" G	1/4" G	91.558
Bare 1/4" filter	1/4" G	1/4" G	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	1/8" G	-	151.080.091
Wall bracket for 3/4" regulators	-	-	210.006
Reattining 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



Part 2





### ACCESSORIES

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

#### PART NUMBERS

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.

#### CONFIGURATION

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

# PRACTICAL 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.

## PRACTICAL PAGES

## 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

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

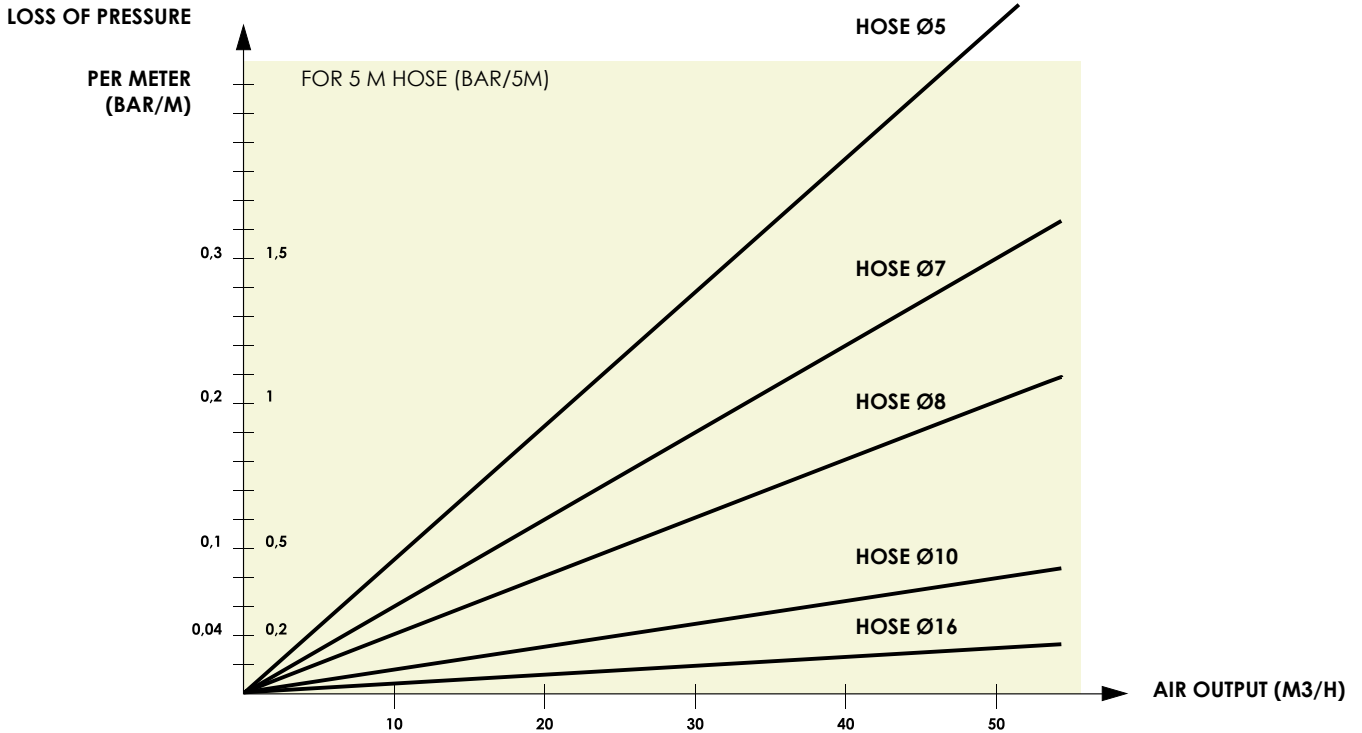
$$\text{Flow (gpm)} = \frac{\text{Pressure loss (psi/Ft)} \times D^4 \text{ (int dia in inches)}}{2.73 \times \text{Viscosity (cps)}}$$

## 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 ISObubble 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 m<sup>3</sup>/h.

Tool	Consumption	
	l/mn	m <sup>3</sup> /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	m <sup>3</sup> /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 :

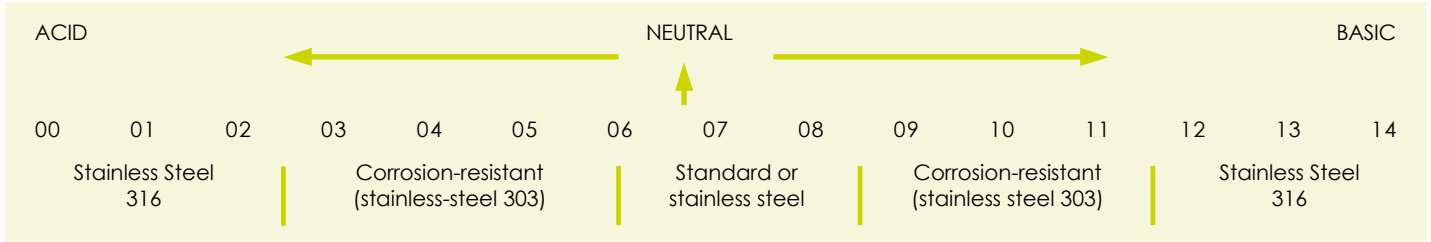
$$Q = 1.2 \times \text{fluid output} \times \text{pressure ratio} \times (\text{air motor feeding pressure in bar} + 1 \text{ bar for atmosphere})$$

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

# PRACTICAL PAGES

## Value of « PH »

The pH value of a liquid or a solution quantifies its concentration of hydrogen ions and tells us the extend 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 x 10 <sup>-5</sup>

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 x 10 <sup>6</sup>

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/cm <sup>2</sup>	psi	14,2233
Kilogrammes/mm <sup>2</sup>	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
Inches <sup>2</sup>	cm <sup>2</sup>	6,4516
Inches <sup>2</sup>	feet <sup>2</sup>	0,006944
Inches <sup>2</sup>	mm <sup>2</sup>	645,163
Millimètres <sup>2</sup>	inches <sup>2</sup>	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 diameter<sup>2</sup> by 0.7854.
- » For the surface of a sphere, multiply the diameter<sup>2</sup> 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	Vitton	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	Vitton	Leather	P.U.
Ethanol					●●●	●●●	N		
Ethyl ether	●●	●●		●●	●●●	N	N		●
Ethylene glycol	●●	●●	●●●	●●	●●●	●●●	●●●		N
Ethyl-mercapan						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
Permanganate de potassium	●●	●●		●●	●●●	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

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