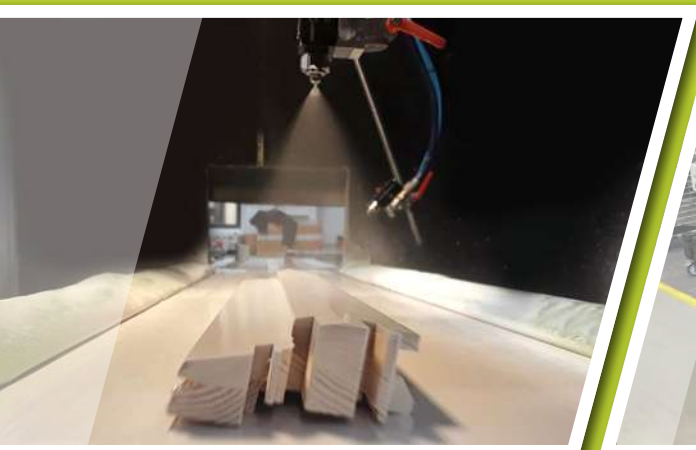


SAMES KREMLIN



AIRLESS® spraying
& equipment



Catalog **v5.2**

"We provide premium Airless Products for finishers with demanding applications"

Apply your Skills

SAMES KREMLIN reserves the right to modify the equipment introduced in this catalogue as well as their specifications without notice.
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≈ 236 Employees / 15 000 m²



SAMES KREMLIN - 150, avenue de Stalingrad - 93240 **STAINS**
≈ 220 Employees / 20 000 m²

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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Flash this QRcode to request a private access to download every user manual.



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 feel 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

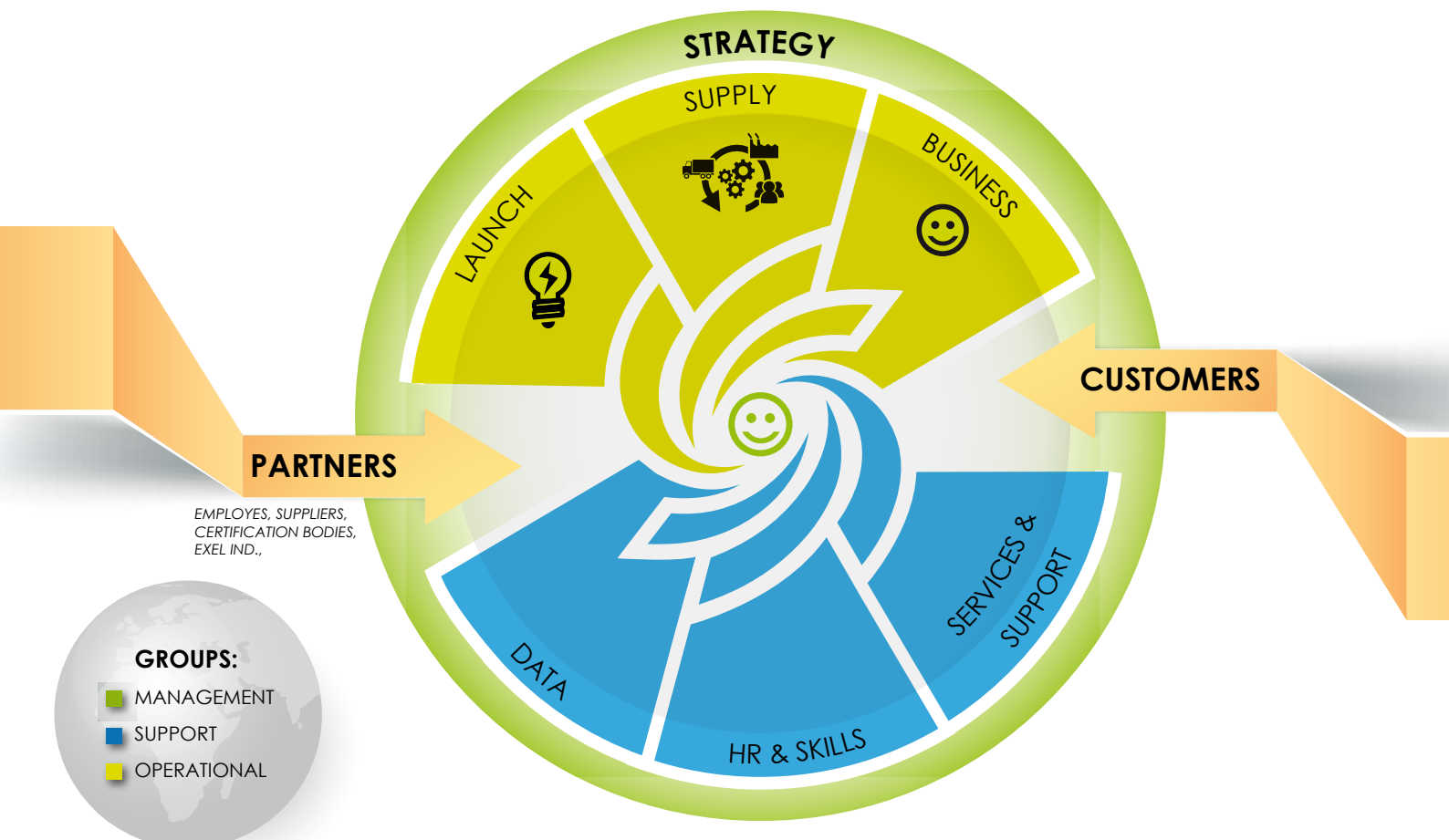
In conformity with the ISO9001 standard - issue 2008, the requisite procedures and registrations are mastered. The seriousness with which **SAMES KREMLIN**'s quality policy is dealt ensures you an optimum quality at each stage of the production and of the assembly of the components.

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



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16 Locations



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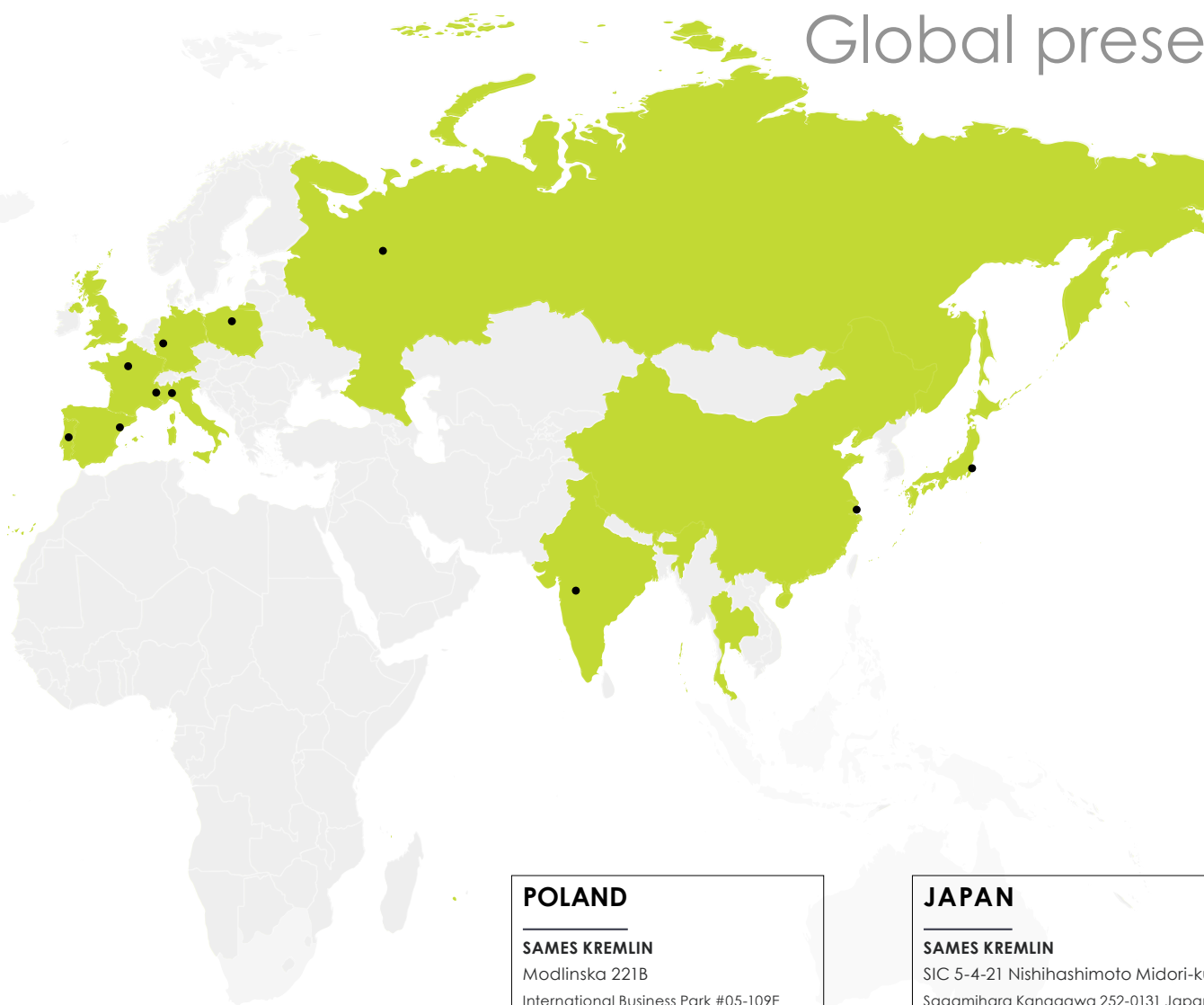
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Application Lab since the
beginning of 2020

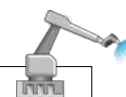
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AIRLESS® technology

➤ What is specific to AIRLESS® Liquid spraying technology?

The name «AIRLESS®» comes from the fact that the spraying is obtained without using compressed air. The product is pressurized by a pump and forced to flow through an extremely fine nozzle orifice called a tip.

The shape of the hole on the tip determines the spraying shape. If the hole is circular, the spray will be round. If the hole is elliptical, the spray will be flat. The flow rate of a tip depends on the hole diameter. There are 3 types of tips - FLAT, REVERSIBLE TIP TOP and SKILL™ for each painter job, depending on the business.



The AIRLESS® sprayer does not integrate any adjustment, resulting in very easy usage : therefore, to adjust the flowrate or the fan width, the proper tip should be selected depending on the atomizing pressure (our chart on **Page 22 to 24** will help you to select the best tip for your job).

➤ The equipment

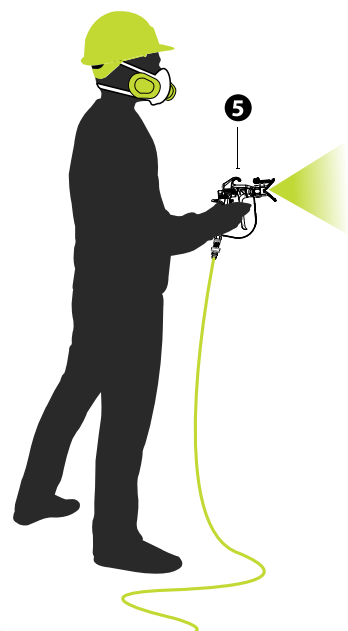
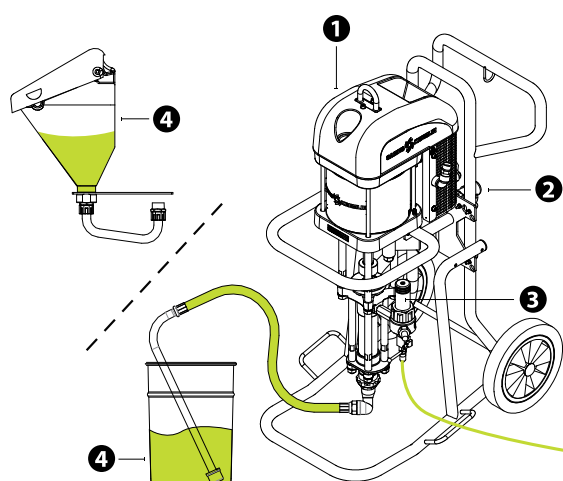
Our AIRLESS® range is designed for manual or automatic spraying.

The minimum equipment needed for AIRLESS® spraying comprise a pump, one fluid hose and a spraygun.

- The pump **(1)** is equipped with a suction rod, suitable for any container **(4)**, or a gravity hopper **(4)**.
- The gun **(5)** is connected up to the pump with only 1 fluid hose **(6)**.

The operator will regulate the fluid pressure by manipulating the air regulator **(2)**. It is possible to plug a outlet filter **(3)** on the circuit to avoid tip lockage while spraying.

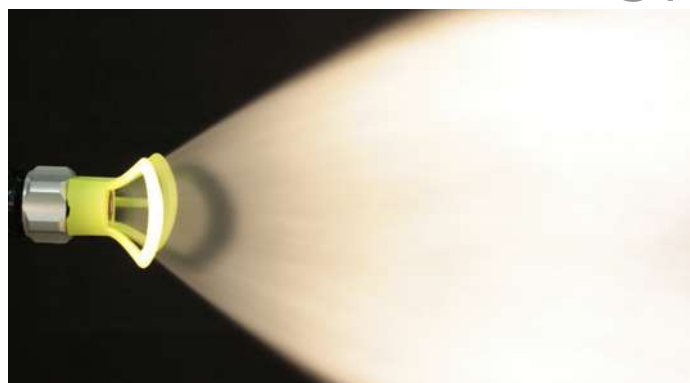
The choice of fluid hoses must be done according to the material viscosity, chemistry and the maximum pressure than the pump can deliver.



AIRLESS® technology

> The performances



AIRLESS® sprayers are designed for big, relatively flat surfaces, such as walls, oil tanks and allows much higher productivity than any other existing spraying technology in the market (such as HVLP, conventional or AIRMIX® spraying) and the resulting layers are much more filling, but on the other hand the quality of the resulting droplets is most of the time lower and it is difficult to avoid orange peel.



> AIRLESS® key points at SAMES KREMLIN

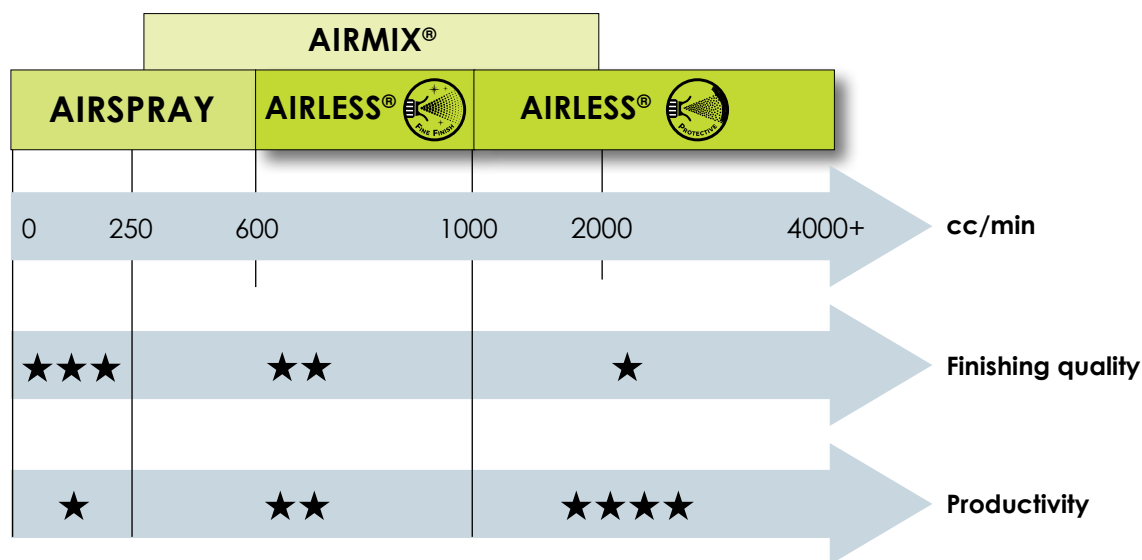
That's the reason why Sames Kremlin has decided to split the offer into 2 ranges:

AIRLESS® Fine Finish and AIRLESS® Protective. On this catalog, every equipment will be tag with the relevant picto depending on the specific usage.

| | <div> <div>  </div> <div>  </div> </div> | |
|--|--|--|
| | AIRLESS® Fine Finish | AIRLESS® Protective |
| Benefits | <ul style="list-style-type: none"> • Fast unblocking thanks to reversible tip system • Easy to set up : One tip will give one flowrate and one fan width | |
| | <ul style="list-style-type: none"> • Low overspray • High finish quality • No bubbling effect with UV paint | <ul style="list-style-type: none"> • Thick coats applied in one passage • High productivity • Material dilution required = reduction of VOC emission (decreasing the release of solvent into the environment) |
| Optimal fluid pressure | Between 40B for Skill™ tip usage up to 240B | From 200B and above |
| Pump pressure ratio recommended | Below 40/1 | Equal or above 40/1 |
| Market recommendation | Wood coating Flatline on UV coating Metal finishing Agriculture Trailers Railway | Metal framework, GPL tank, Fire protection, Mega-yachting, Big shot blasting and painting workshop, Marine Oil & gas |
| Type of coatings chemistry recommended | Waterbased or solventbase Primer Polyester Acrylic Vinyllic Cellulosic Single or Plural Component | |
| | UV Paint PU top coat Stains Epoxy primer | Up to 100% Solids Coatings Elastomeric Coatings (Silicone membranes) Epoxy or epoxy vinyllic Coatings Epoxy Intumescent Fireproofing Materials High Solids Coatings (typically 65% + Volume solids, VOC Compliant) Zinc rich organic and inorganic + glass flake charge material Antifouling – based with silicon or others Stripper Glue, Adhesives Sealant |

AIRLESS® technology

- The place of both AIRLESS® FineFinish and Protective coating inside the spraying technologies.



Recommended range of use

➤ Spraying principle

AIRLESS® spraying happens when the material under high pressure flows through a small hole called a tip. The shape of the hole determines the spraying pattern. If the hole is circular, the spray will be round. If the hole is elliptical, the spray will be flat.

Different tip sizes are available to achieve desired atomization and spray pattern size.

Our tips are built with 4 digit **XX-YY**:

- **XX** The size of the orifice, expressed by his diameter, determines the tip and associated flowrates of the application - the higher the value, the higher the flowrate

- **YY** give a theoretical fan width, spraying at 25 cm from the substrate - on our chart, we generally give an equivalent spray angle

There are 3 types of tips - Flat, reversible **Tip Top** and **Skill™** for each painter job, depending on the business.

No fan adjustments are possible with one tip.

What are the benefits of AIRLESS® spraying

- The coating penetrates better into pits and crevices.
- A uniform thick coating is produced, reducing the number of coats required.
- A very «wet» coating is applied, ensuring good adhesion and flow-out
- Low dilution, high viscosity materials can be sprayed.

The equipment

The AIRLESS® range is designed for manual, automatic and hot spraying.

Our range of sprayer are able to work up to 470 bar (depending on models).

A standard AIRLESS® equipment consists of a pump, a hose and a gun.

- The pump must have an high pressure ratio, and is equipped with a suction rod, that is suitable for any container, or a gravity hopper for lower consumption. Ideally, the pump can held a filter on his output.

- The gun is connected up to the pump by a hose. in some cases, the hose can be splitted into 2 parts:

- one longer section with high internal diameter to avoid pressure losses,

- one whip end hose of 1 to 1.6m length with smaller internal diameter to insure operator maneuverability.

The choice of fluid hoses must been done according to the material sprayed and the maximum pressure than the pump can deliver

With AIRLESS® technology, you will be able to apply many kind of material:

- Waterbased
- Solvent based
- Epoxy primer,
- High rich zinc primer
- PU Top coat
- Acrylic
- Vinyllic
- Antifouling
- Stripper
- Polyester
- 2K material with or without acid or moisture sensitive catalyst
- High Solid Content
- Glue, Adhesives
- Sealants

Spray Pack

In this chapter, you will find our AIRLESS® solution that includes:

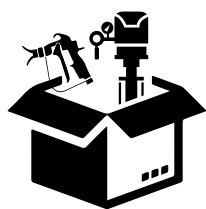
- A PUMP** equipped with 1 manometer :
- to control the pressure at the pump

1 OR 2 FLUID HOSES::

- 1st with high internal diameter available in 7.5, 10 or 14m length
- 2nd, whip end hose with smaller internal diameter with 1.6m length

ONE MANUAL SPRAY GUN

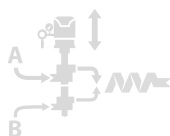
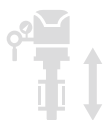
Some pack may offer additional accessories such as trolley, suction rod or gravity hopper, filters or spraying tip. Please refer to the below table to select your spray pack.



= ON THE FOLLOWING PUMP PAGES,
THIS PICTO MEANS THE PUMP IS ALSO
AVAILABLE ON SPRAYPACK VERSION



| Pump type | Maximum output pressure bar (psi) | Set-up | Sealing | Filter | Suction rod | Hoses length m (ft) | Gun type (Fingers) | Swivel fitting | Tip guard | Tip | P/N | Specific usage | |
|--------------|-----------------------------------|--------------|--------------------|-------------|------------------|---------------------|--------------------|------------------|--------------------|---------------------|---------------|----------------------|---------------|
| 10C18 | 60 (870) | Wall Mounted | GT | - | Without F ½" BSP | - | SFlow™ 275 (2F) | - | For Flat tip | - | 151.665.800 | AIRLESS® Fine Finish | |
| 30C25 | 180 (2610) | Wall Mounted | | ✓ | Without M26x125 | 1.6 + 7.5 (5+25) | | ✓ | For Flat tip | - | 151.265.001 | | |
| | | Cart | | - | ø 22 mm - 7/8" | | | 151.265.002 | | | | | |
| | | Wall Mounted | | ✓ | 6L Hopper | | | 151.265.004 | | | | | |
| | | Cart | | - | Without M26x125 | | | 151.265.003 | | | | | |
| | | Wall Mounted | | ✓ | ø 22 mm - 7/8" | | | 151.265.011 | | | | | |
| | | Cart | | - | 6L Hopper | | | 151.265.012 | | | | | |
| 35C50 | 210 (3 045) | Wall Mounted | | MBA | - | Without M26x125 | | 1.6 + 7.5 (5+25) | ✓ | For Flat tip | - | | 151.265.014 |
| 40C50 | 240 (3480) | Cart | ✓ | | ø 22 mm - 7/8" | 151.265.013 | | | | | | | |
| | | Wall Mounted | - | | 6L Hopper | 151.148.550 | | | | | | | |
| | | Cart | ✓ | | ø 25 mm | 151.265.102 | | | | | | | |
| | | Wall Mounted | ✓ | | ø 22 mm - 7/8" | 151.265.103 | | | | | | | |
| | | Cart | Prime kit | | | 151.265.105 | | | | | | | |
| | | Wall Mounted | ✓ | | | 151.265.202 | | | | | | | |
| 40C100WB | 240 (3480) | Cart | Prime kit | | | 151.265.203 | | | | | | | |
| | | Wall Mounted | ✓ | 151.265.205 | | | | | | | | | |
| | | Cart | Prime kit | 151.265.302 | | | | | | | | | |
| Azur™ 52C225 | 312 (4 525) | Cart | PTFE G + Polyfluid | ✓ | ø 25 mm - 1" | 1.6 + 10 (5+33) | SFlow™ 275 (4F) | ✓ | For reversible tip | Tip Top 12-13 (515) | 151.265.303 | AIRLESS® Protective | |
| | | Cart | | ✓ | | | | | | | 151.265.305 | | |
| | | Cart | | - | | | | | | | 1" 1/4 | | 3522253171525 |
| | | Cart | | ✓ | | | | | | | 20L Hopper | | 3522253111525 |
| | | Cart | | - | | | | | | | 1" 1/4 | | 3522253431525 |
| | | Cart | | ✓ | | | | | | | 20L Hopper | | 3721603171525 |
| Azur™ 72C160 | 432 (6 265) | Cart | PTFE / UHMWPE | ✓ | 1" 1/4 | 15+1.6 | SFlow™ 470 (4F) | | | Tip Top 14-13 (517) | 3721603111525 | | |
| | | Cart | | - | | | | | | | 20L Hopper | | 3721603411525 |
| | | Cart | | ✓ | | | | | | | 1" 1/4 | | 3721603171525 |
| | | Cart | | - | | | | | | | 20L Hopper | | 3721603111525 |
| | | Cart | | ✓ | | | | | | | 20L Hopper | | 3721603411525 |
| | | Cart | | - | | | | | | | 20L Hopper | | 3721603171525 |



Manual spray guns

The SFlow™ gun family allows real material savings for industrial applications. The SFlow™ gun brings an excellent comfort to the operator with fatigue free trigger and comfortable grip.

SFlow™ family uses high quality components which ensure a perfect reliability maintaining a high level of performances. Our range of tips delivers high transfer efficiency up to 81% optimizing efficiency

| Features | Benefits |
|--|--|
| High end tungsten carbide tip tested individually | Reliable and repeatable spraying quality |
| Trigger lock, tip lock, and hand safety protection | Enhanced security |
| Embedded patented dedicated tool | Quick filter change |
| Ergonomic design | Comfortable grip to prevent any md\$ |
| Build-in hook | To keep the gun near the workstation |
| Swivel handle fitting | Insure better maneuverability |
| Fatigue free 2 or 4 fingers | To fit every painter morphology |
| Smart lock | Quick & easy tip orientation and positioning |
| Large filtration area | Available in PA or stainless steel to prevent any tip plugging |

SPECIFICATIONS DETAIL FOR EACH GUN

| | | SFlow™ 275 | SFlow™ 470 |
|-------------------------------------|------------------------------------|---|-------------|
| Body of the gun | | Forged aluminum | |
| Maximum fluid pressure (bar (psi)) | | 275 (4 000) | 470 (6 817) |
| Fluid output | | Depends on the tip used | |
| Weight With Swivel / g (lbs) | | 597 (21) | |
| Maximum fluid Temperature (°C (°F)) | | 60 (140) | |
| Wetted parts | | Stainless steel, PTFE, carbide | |
| Safety | | Trigger lock | |
| Filter (fitted on fluid tube) | | #6 - 85 MESH / 168µ | |
| Seat | | Carbide | |
| Fittings | Fluid inlet without swivel fitting | M 1/2 JIC | |
| | Fluid inlet with swivel fitting | M 1/2 JIC or M 1/4 NPSM (depending on models) | |
| Sprayed material | Waterbased | ✓ | |
| | Solvent base | ✓ | ✓ |
| | Primers | ✓ | ✓ |
| | Stains | ✓ | ✓ |
| | Direct Gloss / Metallic | - | - |
| | Top coats / High Gloss | - | - |
| | UV products | ✓ | ✓ |
| | Moisture sensitive | ✓ | ✓ |
| | Two components | ✓ | ✓ |
| | Anti-corrosion / abrasives | ✓ | ✓ |
| | Adhesives | ✓ | ✓ |
| | Sealants | ✓ | ✓ |
| | Greases | ✓ | ✓ |
| | Wax | ✓ | ✓ |

SFLOW™ 275 & 470

The SFlow™ is an AIRLESS® paint sprayer used for applying protective coatings and is available in 275 and 470 bar (4000 & 6820 psi) pressures. This gun delivers real product savings for industrial applications. The ergonomic design offers flexibility in extreme conditions and is ideal for handling high solid content paints and high rich zinc primers.

- High transfer efficiency of 81%
- Good atomization quality
- Designed for high duty industrial applications



NO NEED TO BE ROUGH TO BE STRONG



CONFIGURATION OF SFLOW™ SPRAY GUN

| Tip guard type | Tips | Maximum Fluid pressure (bar) | Trigger | Swivel fitting | Handle fluid fitting | Included hose | Part number | | |
|---------------------|-------|-------------------------------|---------------------|----------------|----------------------|---------------|-------------|----------|-------------|
| For flat tip | - (1) | 275 | 2 fingers | - | 1/2" JIC | - | 135.740.200 | | |
| | | | 4 fingers | | | | 135.740.400 | | |
| | | | 2 fingers | | | | 135.740.240 | | |
| | | 470 | 4 fingers | 1/4" NPSM | 135.740.440 | | | | |
| | | | | 1/2" JIC | 135.745.420 | | | | |
| | | | | 1/4" NPSM | 135.745.440 | | | | |
| | | For reversible Tip Top tip(2) | TIP TOP 12-13 (515) | 275 | 2 fingers | | ✓ | 1/2" JIC | 135.740.220 |
| | | | | | 4 fingers | | | | |
| 2 fingers | | | | | 135.740.225 | | | | |
| 2 fingers | | | | | 135.740.245 | | | | |
| TIP TOP 14-13 (517) | 275 | | 4 fingers | 1/4" NPSM | 135.740.425 | | | | |
| | | | | 1/2" JIC | 135.740.445 | | | | |
| | | | | 1/4" NPSM | 135.740.427 | | | | |
| | | | | 1/2" JIC | 135.740.447 | | | | |
| TIP TOP 18-13 (519) | 470 | 1/4" NPSM | | 135.745.429 | | | | | |
| | | 1/2" JIC | | 135.745.449 | | | | | |
| | | ✓ 15 m Ø3/8" + 1,6m Ø1/4" | | 151.590.016 | | | | | |
| | | ✓ 5 m Ø1/4" | | 151.245.400 | | | | | |
| TIP TOP 14-13 (517) | 275 | | | ✓ 10 m Ø1/4" | 151.245.500 | | | | |

(1) : to be order on page 23 - 24

(2) : full list of Tip Top reversible tip on page 22

Maintenance kits

| Description | Part number |
|--|-------------|
| Maintenance kit for SFlow™ 275 (needle and spring) | 129.740.901 |
| Maintenance kit for SFlow™ 470 (needle and spring) | 129.740.902 |
| Seal kit - o'ring (x10) | 150.040.341 |
| Seal kit - cartridge (x10) | 109.420.298 |

SFLOW™ 275 & 470

Accessories

| Description | Part number |
|--|-------------|
| 2 fingers trigger | 129.740.006 |
| 4 fingers trigger | 129.740.007 |
| F 1/2 JIC - M 1/4 NPSM fitting | 050.123.304 |
| THREAD ADAPTOR SFLOW FOR TIP GUARD 7/8" | 129.740.030 |
| THREAD ADAPTOR SFLOW FOR TIP GUARD 1 1/16" | 129.740.032 |
| PACK OF 5 S/STEEL SCREEN NO 4 FOR DEFLECTOR | 129.982.021 |
| PACK OF 5 S/STEEL SCREEN NO 6 FOR DEFLECTOR | 129.982.022 |
| PACK OF 5 S/STEEL SCREEN NO 12 FOR DEFLECTOR | 129.982.023 |
| CS Nipple MM 1/2 JIC | 050.102.301 |
| SST Nipple MM 1/2 JIC | 905.210.709 |
| CS Nipple M1/2 JIC M3/4 JIC | 905.160.201 |
| SST Nipple M1/2 JIC M3/4 JIC | 906.314.217 |
| SST Nipple MM 1/4 NPSM 500B | 150.104.151 |
| SST Nipple MM 3/8 NPSM 500B | 150.104.152 |
| SST Nipple M1/4 NPSM M3/8 NPSM 500B | 905.210.516 |
| Pack of 10 Diffusers | 129.740.910 |

Filters

| Number of screens | Screen size | Materials | Color | Recommended tips | |
|-------------------|--------------------------------|-----------------|--------|------------------|-------------|
| Pack of 4 | 200 mesh (74µm) handle filter | Stainless steel | Red | 04-xx to 06-xx | 129.740.081 |
| | | PA | | | 129.740.181 |
| | 150 mesh (100µm) handle filter | Stainless steel | Blue | 06-xx to 12-xx | 129.740.082 |
| | | PA | | | 129.740.182 |
| | 100 mesh (150µm) handle filter | Stainless steel | Yellow | 12-xx to 18-xx | 129.740.083 |
| | | PA | | | 129.740.183 |
| | 50 mesh (300µm) handle filter | Stainless steel | White | 18-xx to 100-xx | 129.740.084 |
| | | PA | | | 129.740.184 |

Recommended hoses with JIC fittings

| Description | Fluid hose diameter (mm) | Max fluid pressure (bar) | Fittings | Hose length (m) | Part number |
|---------------|--------------------------|--------------------------|-----------|-----------------|-------------|
| Whip end hose | 3,2 | 240 | F 1/2 JIC | 1,6 | 050.451.155 |
| | 4,8 | | | | 050.450.654 |
| | 6,35 | 450 | | | 050.450.155 |
| | | | | | 050.450.951 |
| Fluid hose | 4,8 | 240 | F 3/4 JIC | 7,5 | 050.450.605 |
| | 6,35 | | | 050.450.111 | |
| | 9,52 | 425 | | 10 | 76.085 |
| | | | | 14 | 76.842 |

Recommended hoses with NPSM fittings

| Description | Fluid hose diameter (mm) | Max fluid pressure (bar) | Fittings | Hose length (m) | Part number |
|---------------|--------------------------|--------------------------|-------------|-----------------|-------------|
| Whip end hose | 6.35 (1/4) | 350 | F 1/4 NPSM | 1,6 | 050.350.103 |
| | | 500 | | | 050.500.103 |
| Fluid hose | | 350 | | 15 | 050.350.107 |
| | | 500 | | | 050.500.107 |
| | 9.52 (3/8) | 350 | 050.350.207 | | |
| | | 500 | 050.500.207 | | |

Notes



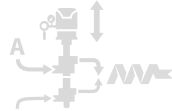
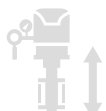
Spray guns

Pumps

Machines & Controllers

Accessories

General informations



Automatic spray guns

Our automatic gun range family is the result of **SAMES KREMLIN** experience since 1925.







Our compact design and reduced weight increase the performances and the efficiency of the automatic machines.

This range is delivering unsurpassed quality of atomization, providing high finish quality and important product savings. Worldwide recognized by professionals, our automatic range is widely used in automatic finishing lines in most markets.

For guns assembled on base, the fluid circulation is available in the base (no pressure loss) or inside the gun (quick flushing).

| Features | Benefits | Specific to one family |
|---|--|------------------------|
| Equipped with 2 fluid inlets | Perfect for fluid circulation and saves money by eliminating the need for a 2-way valve on color or flushing | ASB |
| No spring in the fluid passages | Saves time and money by making it easier to clean, faster color changes and less maintenance | All |
| fitted with a GT cartridge | Strong resistance to very abrasive UV and HS materials for an improved reliability | ASB |
| Small ball needle | For an improved laminar fluid passage | ASB |
| Modular design | Quick service: only 4 bolts to unscrew, no need to remove hoses | ASB |
| Compact Design | Minimal payload on the machine for efficient production. | ASC |
| Large dimension fluid passages | Minimized the pressure drop and allows to work from liquid to semi-viscous materials | AIRLESS |
| Choice of circulation in the base or the gun | Performance level guaranteed for most materials and easy flushing | ASB |
| Choice of bases with rear or side connections | To fit each customer need and line configuration | ASB |
| Wide range of AIRLESS® tips | Provides many patterns choices to fit each customer need | All |
| Lightweight design | Possibility to mount more guns on a reciprocator without exceeding the weight limit | ASB |
| Integrated filtration | Allows longer works without tip clogging | ASB & ASC |
| Double effect gun | High cycling rate (opening / closing) | ASC & AIRLESS |

SPECIFICATIONS

| | | | ASB |  |  | ASC |  |  | AIRLESS gun |  |  | |
|--|-------------------------|--------------------------|---|---|---|--------------------------------------|--|---|------------------------------|---|---|--|
| Body of the gun | | | Forged aluminum | | | Stainless steel | | | Forged aluminum | | | |
| Fluid pressure range (bar (psi)) | | | Up to 240 (3480) | | | Up to 240 (3480) Up to 400 (5800) | | | Up to 400 (5800) | | | |
| Maximum air inlet pressure (bar (psi)) | | | 6 (87) | | | | | | | | | |
| Minimal trigger air pressure (bar (psi)) | | | 4 | | | | | | | | | |
| Fluid output | | | Depends on the tip used | | | | | | | | | |
| Weight - gun only (g (lbs)) | | | 336 (0.74) | | | 397 (0.88) | | | 585 (1.29) | | | |
| Maximum fluid Temperature (°C (°F)) | | | 50 (122) | | | | | | | | | |
| Wetted parts | | | Stainless steel - treated stainless steel | | | | | | Stainless steel and steel | | | |
| Sealing | | | PTFE or GT | | | | | | PTFE | | | |
| Seat | | | Carbide | | | | | | | | | |
| Fittings | Fluid | On the base | F 1/4 NPS | | | | - | | | | | |
| | | Delivered but not fitted | M 1/4 NPT - M 1/2 JIC | | | - | | | - | | | |
| | | On the gun | - | | | M 1/2" JIC | | | Straight - M1/8"G - M1/2"JIC | | | |
| | Pilot air | on the base | F 1/8 NPS | | | | - | | | | - | |
| | | Delivered but not fitted | M 1/8 BSP - quick fitting ø4x6 | | | - | | | - | | | |
| | | On the gun | - | | | Elbow - 2.7 x 4 hose | | | Elbow - 2.7 x 4 hose | | | |
| Head thread | | | M25x175 | | | | | | M 11/16" | | | |
| Sprayed material | Waterbased | | ✓ | | | ✓ | | | ✓ | | | |
| | Solvent base | | ✓ | | | ✓ | | | ✓ | | | |
| | Primers | | ✓ | | | ✓ | | | ✓ | | | |
| | Stains | | - | | | - | | | - | | | |
| | Direct Gloss / Metallic | | - | | | - | | | - | | | |
| | Top coats / High Gloss | | ✓ | | | ✓ | | | ✓ | | | |
| | UV products | | ✓ | | | ✓ | | | - | | | |
| | Moisture sensitive | | ✓ | | | ✓ | | | ✓ | | | |
| | Two components | | ✓ | | | ✓ | | | ✓ | | | |
| | Sealants | | - | | | ✓ | | | ✓ | | | |
| | Greases | | ✓ | | | ✓ | | | ✓ | | | |

ASB

The ASB automatic spray gun offers superior atomization whatever the line speed thanks to perfect balance between high pressure and high flow rate. It offers precise application - coating applied directly on the target - due to fast response time.

- Premium AIRLESS® application
- The lightest automatic AIRLESS® gun of the market
- Low maintenance cost of ownership



ACCURACY AT HIGH SPEED AIRLESS® APPLICATION



Configuration of ASB spray gun

| Description | GT cartridge | PTFE cartridge | Base & Tip | Tip guard | Part number |
|--|--------------|----------------|--------------------------|---------------------|-------------|
| ASB 240 GT Flat tip guard w/o base | ✓ | - | To be ordered separately | For flat tips | 129.990.300 |
| ASB 240 GT Reversible tip guard w/o base | | | | For reversible tips | 129.990.500 |
| ASB 240 PTFE Flat tip guard w/o base | - | ✓ | | For flat tips | 129.990.200 |
| ASB 240 PTFE Reversible tip guard w/o base | | | | For reversible tips | 129.990.400 |

Maintenance

| Description | Part number |
|--|-------------|
| Package of seals | 129.990.060 |
| GT cartridge - Carbide needle assembly | 129.990.040 |
| PTFE cartridge - Carbide needle assembly | 129.990.050 |
| Carbide seat holder assembly | 129.740.040 |

Compatible base for ASB gun (without gun)

| Description | Base type | Detail | Weight (g) | Filter | Wetted parts | Part number |
|--|-------------|-------------------|------------|--------|-----------------|-------------|
| Base for ASB (circulation in the base (⊥)) | side outlet | Standard flat | 240 | - | Stainless Steel | 129.690.070 |
| CEFLA base for ASB (circulation in the base (⊥)) | - | For Cefla machine | - | | | 129.690.090 |
| Base for ASB (circulation in the gun (Ω)) | - | Standard flat | - | | | 129.691.070 |
| Base for ASB (circulation in the base (⊥)) | rear outlet | Standard flat | 480 | | | 129.690.080 |
| Base for ASB (circulation in the gun (Ω)) | - | Standard flat | - | | | 129.691.080 |
| Robotic Base for ASB (⊥) With filter | Behind | 60° | 540 | ✓ | | 129.691.170 |
| Robotic Base for ASB (Ω) | - | 60° | 540 | - | | 129.691.160 |
| Semi robotic Base for ASB (⊥) With filter | -- | 60° | 540 | ✓ | | 129.691.171 |
| Semi robotic Base for ASB (Ω) | | 60° | 540 | - | | 129.691.161 |

Accessories

| Description | Part number |
|--|-------------|
| Pack of 2 fast fitting for cartridge lubrication | 129.990.062 |
| Filter support for robotic and semi-robotic base | 129.691.180 |
| N°4 Screen (x5) for deflector | 129.982.021 |
| N°6 Screen (x5) for deflector | 129.982.022 |
| N°12 Screen (x5) for deflector | 129.982.023 |

Fittings kit

| | Including | | | | |
|----------------------------------|-------------------|-----------------------------|--------------------|------------------------------|-------------|
| | MM 1/4" - 1/4 NPS | MM 1/4 NPT - 12/ JIC SST | Plug M 1/4 NPT SST | M 1/8" - Fast fitting 4x6 | Part number |
| Fitting kit for side outlet base | 1 | 2 off Elbow | 1 | 1 | 129.690.075 |
| Fitting kit for rear outlet base | 1 | 2 off Straight | 1 | 1 | 129.690.085 |

Support

| 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 |

ASC

The ASC automatic AIRLESS® gun is a concentration of technologies in a compact and lightweight body. High quality materials make the ASC a highly productive and durable gun. SAMES KREMLIN's finishing technologies deliver premium AIRLESS® applications.

- Premium AIRLESS® application
- Heavy duty sustainability
- High functionality



COMPACT BY BIRTH, PERFORM BY CHOICE



Configuration of ASC spray gun

| Description | Cartridge | Max Pressure (bar) | Tip | Tip guard | Part number |
|---------------------------------------|-----------|-----------------------|-----------------------------|------------|-------------|
| ASC 240 SST PTFE Flat tip guard | PTFE | 240 | To be ordered separately | Flat | 129.982.121 |
| ASC 240 SST PTFE Reversible tip guard | | | | Reversible | 129.982.122 |
| ASC 240 SST GT Flat tip guard | GT | | | Flat | 129.982.521 |
| ASC 240 SST GT Reversible tip guard | | | | Reversible | 129.982.522 |
| ASC 400 SST PTFE Flat tip guard | PTFE | 400 | | Flat | 129.984.121 |
| ASC 400 SST PTFE Reversible tip guard | | | | Reversible | 129.984.122 |
| ASC 400 SST GT Flat tip guard | GT | | | Flat | 129.984.521 |
| ASC 400 SST GT Reversible tip guard | | | | Reversible | 129.984.522 |

Maintenance

| Description | Part number |
|--|-------------|
| Package of seals | 129.982.093 |
| GT cartridge - Carbide needle assembly | 129.990.040 |
| PTFE cartridge - Carbide needle assembly | 129.990.050 |
| Carbide seat holder assembly | 129.740.040 |

Accessories

| Description | Part number |
|--|-------------|
| Pack of 2 fast fitting for cartridge lubrication | 129.990.062 |
| N°4 Screen (x5) for deflector | 129.982.021 |
| N°6 Screen (x5) for deflector | 129.982.022 |
| N°12 Screen (x5) for deflector | 129.982.023 |
| Fast closing assistance | 129.982.050 |
| Manifold for fast color changes | 129.982.060 |
| 1/2 JIC head | 129.982.065 |

Support

| Description | Part number |
|-------------------|-------------|
| Mounting support | 129.982.030 |
| Mounting rod Ø 16 | 049.351.000 |

Automatic Spray Gun 400 bar



IDEAL FOR VISCOUS SPRAYING

Configuration of 400 bar spray gun

| Description | Sealing | Seat | Max working pressure (bar) | Tip | Part Number |
|------------------------|--------------|---------|----------------------------|--------------------------|-------------|
| AIRLESS Auto spray gun | PTFE V seals | Carbide | 400 | To be ordered separately | 151.120.300 |

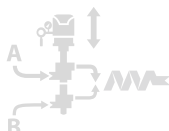
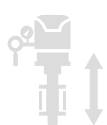
Maintenance

| Description | Part number |
|--------------------------------------|-------------|
| Seal kit (including packing) | 101.331 |
| Needle | 203.014 |
| Carbide seat | 630.387 |
| SST filter screen - 50 mesh (300 µ) | 625.218 |
| SST filter screen - 100 mesh (150 µ) | 625.212 |
| SST filter screen - 160 mesh (95 µ) | 625.216 |
| Pack of 4 filter seals | 107.021 |

Accessories

| Description | Outlet fitting | Length mm (in) | Outlet orifice size mm (in) | Material | Part Number |
|---|----------------|----------------|-----------------------------|---------------------|-------------|
| Color change adapter nozzle for manifold mounting | M 1/8" G co | - | - | - | 203.948 |
| CS Cap to be mounted instead of the tip guard | F 1/4" G | | | | 630.649 |
| SST Cap to be mounted instead of the tip guard | F 1/4" G | | | | 203.033 |
| CS adaptor to be mounted instead of the tip guard | F10x100 | | | | 630.647 |
| Extrusion nozzle | M1/4" G | 64 (2.52) | Ø1.6 (0.06) | Polyethylene | 107.011.03 |
| | | 102 (4.02) | Ø0.8 (0.03) | | 107.011.01 |
| | | | Ø1.6 (0.06) | | 107.011.02 |
| Extrusion nozzles | M10x100 | 43 (1.69) | Ø1.5 (0.06) | Chrome plated brass | 670.135 |
| | | | Ø2.5 (0.1) | | 670.136 |
| | | | Ø3 (0.12) | | 670.152 |
| | | | Ø4 (0.16) | | 670.155 |
| | | 55 (2.17) | Ø1.5 x 8 (Ø 0.06 x 0.32) | Chrome plated brass | 670.134 |
| | | 60 (2.36) | Ø 2 x 30 (Ø 0.08 x 1.18) | | 670.142 |
| | | 55 (2.17) | Ø 1.5 x 20 (Ø 0.06 x 0.80) | | 670.137 |
| | | 43 (1.69) | Ø1.5 (0.06) | Plastic | 670.128 |
| | | | Ø2.5 (0.1) | | 670.129 |
| | | | Ø4 (0.16) | | 670.130 |
| | | | Ø 6 (0.25) | Carbon Steel | 670.154 |
| | | | Ø2.5 (0.1) | | 670.157 |
| | | | Ø4 (0.16) | | 670.156 |



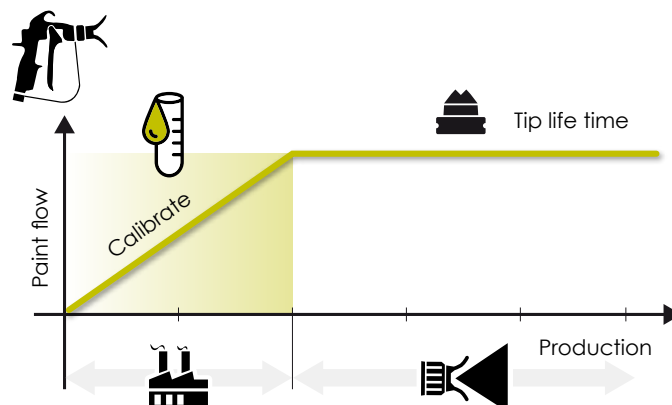


Tips and spraying accessories

The choice of the tip must be done according to the desired flowrate and fan width in order to achieve a good paint coverage and reduce paint costs. An AIRLESS® tip needs to be replaced frequently in order to maintain the original transfer efficiency

Why choosing our high quality tips?




To make sure that every tip built in our factory yields the best results, we follow a precise machining process that guarantees consistent material output at different spray angles each & every time. Our tips are built with carefully selected materials to guarantee a lifetime production.



How is build our offer

Sames Kremlin offers 3 types of AIRLESS® tips to fit to all customer requirement. These tips are fully compatible with our spray gun range.



| Tip name | Tip Top | Flat | Skill™ |
|--|--|---|---|
| Features | | | |
| Extremely quick unplugging without tools | ✓ | - | - |
| Premium finishing quality | - | - | ✓ |
| Standard on protective coating application | ✓ | ✓ | - |
| Compatible with most waterbased and solventbase applications | ✓ | ✓ | ✓ |
| |  |  |  |

Ordering example

A customer needs to apply 1L/min at 140 bar of paint with a spray pattern of around 25 cm. Our tip chart gives us the following tip size :

1. First 2 XX digits : caliber #14 will deliver the appropriate flowrate at 140 bar
2. Last 2 XX digits : For a spray pattern width of 25 cm, we should choose a width caliber #13
3. The complete part number of the tip requested will be :
 - 000.401.413 for Tip Top reversible Tip
 - 000.001.413 for flat tip
 - 000.301.413 for Skill™ super finishing tip

Note : Tip Top tip size 100.XX will have part number 000.410.0XX

Tips and Tricks

At the end of the day, we recommend that you place your tip in a closed solvent bucket for easy cleaning.



AIRLESS® spray tips

Table of Tip Top reversible AIRLESS® spray - Tips 000.40X.XXX

Recommended for high working cadency.

Time savings with extremely quick unplugging without tools.

| Caliber | ø orifice (inch) | Water Output (L/min) at XXX bar | | | Handle Filter (MESH) | Pump filter Number (MESH) | Angle Fan width (cm) at 25 cm | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
|---------|------------------|---------------------------------|------|-------|----------------------|---------------------------|----------------------------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| | | 70 | 200 | 400 | | | | 12 / 16 | 17 / 21 | 22 / 24.5 | 25 / 29 | 29 / 33 | 33 / 37 | 38 / 44 |
| 04 | 0,009 | 0,22 | 0,37 | 0,53 | Red (200) | 4 (140) | Number engraved on the tip | | 04-09 (309) | 04-11 (409) | 04-13 (509) | | | |
| 06 | 0,011 | 0,33 | 0,56 | 0,79 | Blue (150) | 6 (85) | | 06-07 (211) | 06-09 (311) | 06-11 (411) | 06-13 (511) | 06-15 (611) | | |
| 09 | 0,013 | 0,45 | 0,76 | 1,08 | Blue (150) | 6 (85) | | 09-07 (213) | 09-09 (313) | 09-11 (413) | 09-13 (513) | 09-15 (613) | 09-17 (713) | |
| 12 | 0,015 | 0,6 | 1,01 | 1,43 | Blue (150) | 8 (70) | | 12-07 (215) | 12-09 (315) | 12-11 (415) | 12-13 (515) | 12-15 (615) | 12-17 (715) | |
| 14 | 0,017 | 0,72 | 1,22 | 1,72 | Blue (150) | 8 (70) | | 14-07 (217) | 14-09 (317) | 14-11 (417) | 14-13 (517) | 14-15 (617) | 14-17 (717) | 14-19 (817) |
| 18 | 0,019 | 0,95 | 1,61 | 2,27 | Yellow (100) | 12 (55) | | 18-07 (219) | 18-09 (319) | 18-11 (419) | 18-13 (519) | 18-15 (619) | 18-17 (719) | 18-19 (819) |
| 25 | 0,021 | 1,33 | 2,25 | 3,18 | Yellow (100) | 12 (55) | | | | 25-11 (421) | 25-13 (521) | 25-15 (621) | 25-17 (721) | 25-19 (821) |
| 30 | 0,023 | 1,6 | 2,70 | 3,82 | Yellow (100) | 15 (45) | | | | 30-11 (423) | 30-13 (523) | 30-15 (623) | 30-17 (723) | 30-19 (823) |
| 40 | 0,025 | 2,175 | 3,68 | 5,20 | White (50) | 15 (45) | | | | 40-11 (425) | 40-13 (525) | 40-15 (625) | 40-17 (725) | 40-19 (825) |
| 45 | 0,029 | 2,38 | 4,02 | 5,69 | White (50) | 20 (30) | | | 45-09 (329) | 45-11 (429) | 45-13 (529) | 45-15 (629) | 45-17 (729) | 45-19 (829) |
| 68 | 0,033 | 3,78 | 6,39 | 9,04 | White (50) | 30 (20) | | | | 68-11 (433) | 68-13 (533) | 68-15 (633) | 68-17 (733) | 68-19 (833) |
| 100 | 0,036 | 5,6 | 9,47 | 13,39 | White (50) | 30 (20) | | | | | 100-13 (539) | 100-15 (639) | 100-17 (739) | 100-19 (839) |

Accessories

| Description | Part number |
|--|-------------|
| Pack of 10 seals for reversible TIP ToP tips | 134.740.007 |
| Servicing kit (seat (x4) and seals (x4)) | 129.740.907 |

AIRLESS® spray tips

**Table of Flat AIRLESS® spray Tips 000.00X.XXX**

Recommended for high working cadency.
Time savings with extremely quick unplugging without tools.

| Caliber | ø orifice (inch) | Water Output (L/min) at XXX bar | | | Handle Filter (MESH) | Pump filter Number (MESH) | Angle Fan width (cm) at 25 cm | 18° | 25° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 95° |
|---------|------------------|---------------------------------|------|------|----------------------|---------------------------|----------------------------------|-----------|---------|---------|---------|-----------|---------|---------|---------|---------|---------|
| | | 70 | 200 | 400 | | | | 6.5 / 8.5 | 10 / 12 | 12 / 16 | 17 / 21 | 22 / 24.5 | 25 / 29 | 29 / 33 | 33 / 37 | 38 / 44 | 38 / 44 |
| 03 | 0,007 | 0,15 | 0,25 | 0,36 | Red (200) | 4 (140) | Number engraved on the tip | 03-03 | 03-05 | 03-07 | | | | | | | |
| 04 | 0,009 | 0,22 | 0,37 | 0,53 | Red (200) | 4 (140) | | 04-03 | 04-05 | 04-07 | 04-09 | 04-11 | 04-13 | | | | |
| 06 | 0,011 | 0,33 | 0,56 | 0,79 | Blue (150) | 6 (85) | | 06-03 | 06-05 | 06-07 | 06-09 | 06-11 | 06-13 | 06-15 | | | |
| 09 | 0,013 | 0,45 | 0,76 | 1,08 | Blue (150) | 6 (85) | | 09-03 | 09-05 | 09-07 | 09-09 | 09-11 | 09-13 | 09-15 | 09-17 | | |
| 12 | 0,015 | 0,6 | 1,01 | 1,43 | Blue (150) | 8 (70) | | | | 12-07 | 12-09 | 12-11 | 12-13 | 12-15 | 12-17 | | |
| 14 | 0,017 | 0,72 | 1,22 | 1,72 | Blue (150) | 8 (70) | | 14-03 | 14-05 | 14-07 | 14-09 | 14-11 | 14-13 | 14-15 | 14-17 | 14-19 | |
| 18 | 0,019 | 0,95 | 1,61 | 2,27 | Yellow (100) | 12 (55) | | | | 18-07 | 18-09 | 18-11 | 18-13 | 18-15 | 18-17 | 18-19 | |
| 20 | 0,02 | 1,06 | 1,79 | 2,53 | Yellow (100) | 12 (55) | | | 20-05 | 20-07 | 20-09 | 20-11 | 20-13 | 20-15 | 20-17 | 20-19 | |
| 25 | 0,021 | 1,33 | 2,25 | 3,18 | Yellow (100) | 12 (55) | | | | | | 25-11 | 25-13 | 25-15 | 25-17 | 25-19 | |
| 30 | 0,023 | 1,6 | 2,70 | 3,82 | Yellow (100) | 15 (45) | | | | 30-07 | 30-09 | 30-11 | 30-13 | 30-15 | 30-17 | 30-19 | |
| 40 | 0,025 | 2,175 | 3,68 | 5,20 | White (50) | 15 (45) | | | | | | 40-11 | 40-13 | 40-15 | 40-17 | 40-19 | |
| 45 | 0,029 | 2,38 | 4,02 | 5,69 | White (50) | 20 (30) | | | | 45-07 | | 45-11 | 45-13 | 45-15 | 45-17 | 45-19 | 45-21 |
| 68 | 0,033 | 3,78 | 6,39 | 9,04 | White (50) | 30 (20) | | | | | | 68-11 | 68-13 | 68-15 | 68-17 | 68-19 | |

Accessories

| Description | Part number |
|-------------------------------|-------------|
| Pack of 5 seals for flat tips | 150.041.319 |

AIRLESS® spray tips


Table of Double Atomization Skill™ AIRLESS® spray Tips 000.30X.XXX

Double insert Skill™ tip allows low AIRLESS® atomizing pressure without tail. The new generation of Skill™ tips deliver a softer spray pattern on edges for a perfect overlapping on flat line and facilitates the settings on flat line machines.

High reliability: Always clean in production for high productivity with excellent atomization

Easy maintenance: This tip is easier to clean because of his dome shape design.

| Tip Caliber | Diameter in mm | Diameter in inches | Water Output | | | Recommended Tip Diaphragm Auto gun ASI 24 & 40 | | Gun Filter (Mesh) | Pump Filter (Mesh) | Average Spray angle and fan width at gun target distance of 25 cm or 10 inches from substrate | | | | | | | | | |
|-------------|----------------|--------------------|----------------------------|------------|------------|--|---|-------------------|--------------------|---|-------|--------|--------|--------|--------|--------|-------|-------|------|
| | | | Fluid Pressure - bar (psi) | | | | | | | 03 | 05 | 07 | 09 | 11 | 13 | 15 | 17 | 19 | 21 |
| | | | 70 (1000) | 140 (2000) | 200 (2860) | | | | | 15° | 25° | 35° | 40° | 50° | 55° | 70° | 80° | 90° | 100° |
| | | | 8 cm | 10 cm | 16 cm | | | | | 21 cm | 24 cm | 29 cm | 35 cm | 40 cm | 48 cm | 60 cm | | | |
| | | | 3.5 " | 3.9 " | 6.3 " | | | | | 8.3 " | 9.5 " | 11.4 " | 13.8 " | 15.7 " | 18.9 " | 23.6 " | | | |
| 04 | 0.23 | 0,009 | 220 | 310 | 370 | 12 | Diaphragm 60 is Standard Mounting on guns | Red (200) | 4 (140) | | | 04-07 | 04-09 | 04-11 | 04-13 | | | | |
| 06 | 0.28 | 0,011 | 330 | 465 | 560 | | | Blue (140) | | 6 (85) | | 06-05 | 06-07 | 06-09 | 06-11 | 06-13 | 06-15 | | |
| 07 | 0.30 | 0,012 | 390 | 550 | 660 | 15 | | | 8 (70) | | | 07-05 | 07-07 | 07-09 | 07-11 | 07-13 | 07-15 | | |
| 09 | 0.33 | 0,013 | 450 | 635 | 760 | | | | | | 09-07 | 09-09 | 09-11 | 09-13 | 09-15 | 09-17 | | | |
| 12 | 0.38 | 0,015 | 600 | 850 | 1015 | 15 | | Yellow (100) | 12 (55) | | | | 12-09 | 12-11 | 12-13 | 12-15 | 12-17 | | |
| 14 | 0.41 | 0,017 | 720 | 1020 | 1215 | | | | | | | | | 14-11 | 14-13 | 14-15 | 14-17 | 14-19 | |
| 18 | 0.46 | 0,019 | 950 | 1345 | 1605 | 20 | | | | | | | 18-13 | 18-15 | 18-17 | 18-19 | | | |
| 20 | 0.51 | 0,020 | 1060 | 1500 | 1790 | | | | | | | | | 20-13 | 20-15 | 20-17 | 20-19 | | |

Accessories

| Description | Part number |
|--|-------------|
| Pack of 10 collars | 134.980.002 |
| Pack of 10 collars with integrated screen filter for low caliber #04 and #06 | 134.980.010 |

Tip guard

The following chart represent our selection of tip guard compatible with our full range of guns and others.

| | | | | | | | | | | | |
|-------------------|--------------------|---|-------------|-------------|---|---|--|---|---|---|---------|
| Compatible with | SFlow™ | ✓ | - | | ✓ | - | Yes with adaptor 129.740.032 | | | | - |
| | ASB | ✓ | - | | ✓ | ✓ | Yes with adaptor 129.740.032 | | | | - |
| | ASC | ✓ | | | ✓ | ✓ | | | | | - |
| | ASI range | Yes with optionnal diaphragm 129.740.074 | - | ✓ | Yes with optionnal diaphragm 129.740.074 | | ✓ | ✓ | ✓ | ✓ | - |
| | AS2 | | - | | | | ✓ | ✓ | ✓ | ✓ | - |
| | AIRLESS gun | - | - | ✓ | - | - | ✓ | ✓ | ✓ | - | ✓ |
| Tip compatibility | Thread | F25x175 | F 7/8" | F 11/16" | F25x175 | | F 11/16" | | | | |
| | Tightening type | Manual | | | | | With wrench | | | | |
| | Tip guard | ✓ | ✓ | | ✓ | - | ✓ | ✓ | ✓ | - | - |
| | Tip Top reversible | ✓ | | | - | - | - | - | - | - | - |
| | Skill™ | - | | | ✓ | ✓ | - | - | ✓ | ✓ | ✓ |
| | Flat | | | | ✓ | ✓ | - | - | ✓ | ✓ | ✓ |
| Part Number | | 132.740.200 | 132.740.210 | 132.740.220 | 132.740.100 | 129.740.071 | 922.562.000 | 922.552.000 | 922.004.202 | 000.152.290 | 630.390 |
| | |  | | |  |  |  |  |  |  | |



| Tip housing adaptor | Inlet thread | Outlet | Part Number |
|---------------------|--------------|----------|-------------|
| #1 | F25x175 | M 7/8" | 129.740.030 |
| #2 | | M 11/16" | 129.740.032 |

AIRLESS® Extensions



An extension is used to spray on part unreachable with the painter hand.

- 100% compatible with most of the solventborne and waterborne materials as the new extensions are in stainless steel.
- Only one working pressure up to 500B to avoid any risk
- Low weight with only
77.9 g for the 300mm
129 g for the 600mm
- Stainless steel extensions cannot be bent for longer lifetime and painter safety.

| | | | | Compatible with | | | |
|---------------------|------------------------|-----------------|--------|------------------|-----------------------|-----------------------|-------------|
| Length (mm) | Working pressure (Bar) | Material | Thread | Sflow™, ASB, ASC | AIRLESS automatic gun | Old AS2 and ASI range | Part Number |
| 300 | 500 | Stainless steel | 25x175 | ✓ | - | - | 175740030 |
| 600 | | | | ✓ | - | - | 175740060 |
| 300 | 250 | Aluminum | 11/16" | - | ✓ | ✓ | 922030122 |
| 600 | | | | - | ✓ | ✓ | 922030242 |
| 100 | | | | - | ✓ | ✓ | 203426 |
| 150 | | | | - | ✓ | ✓ | 625199 |
| 200 | | | | - | ✓ | ✓ | 625174 |
| Accessories | | | | | | | |
| Swivel head fitting | 250 | Aluminum | 11/16" | - | ✓ | ✓ | 922075062 |
| Straight head | | | | - | ✓ | ✓ | 922024302 |



Accessories for AIRLESS® guns

Seat & seat assembly

| | | | | | | Old Guns | | | |
|--|----------|------------------|------------------|------------------|------------------|------------------|-----------------------|------------------|------------------|
| Description | Quantity | SFlow™ | ASB | ASC | AIRLESS | ASI 24 & 40 | ASI40 GT & ASI 40 GTV | AS2 | Part Number |
| Carbide seat with seal + Diffuser | 2 | ✓ | ✓ | ✓ | | - | | | 129.740.908 |
| Stainless steel seat | 2 | ✓ | ✓ | ✓ | | | | | 129.729.905 |
| Stainless steel seat + Diffuser | 2 | ✓ | ✓ | ✓ | | | | | 129.740.909 |
| Acetal Seat | 10 | ✓ | ✓ | ✓ | | | | | 129.729.904 |
| Diffuser | 10 | ✓ | ✓ | ✓ | | | | | 129.740.910 |
| | 1 | ✓ ⁽¹⁾ | ✓ ⁽¹⁾ | ✓ ⁽¹⁾ | | | | | 129.740.040 |
| Carbide seat assembly (with holder) (mounted on standard) | 1 | - | | | | ✓ ⁽¹⁾ | - | ✓ ⁽¹⁾ | 129.461.300 |
| | 1 | - | | | ✓ ⁽¹⁾ | | | | 630.387 |
| SST seat assembly (with holder) (mounted on standard) | 1 | ✓ | ✓ | ✓ | - | - | | - | 129.982.040 |
| | 1 | - | | | | | | | ✓ ⁽¹⁾ |
| Acetal seat assembly (with holder) (mounted on standard) | 1 | ✓ | ✓ | ✓ | | | | | |

(1) : Mounted on standard

Tip seals

| Description | Tip Top | Skill™ | Flat | Part number |
|--|---------|--------|------|-------------|
| Pack of 10 seals | ✓ | - | - | 134.740.007 |
| Servicing kit(Pack of 4 seat and seal assembled) | ✓ | | | 129.740.907 |
| Pack of 10 collars for Skill™ tips | - | ✓ | | 134.980.002 |
| Pack of 10 collars with integrated micro-screen for Skill™ tips caliber #04 & 06 | | ✓ | | 134.980.010 |
| Pack of 10 micro-screen | | ✓ | | 129.609.901 |
| Pack of 5 seals for flat tip | | - | ✓ | 150.041.319 |

Pre-orifice for AIRLESS® gun

Mounted before an AIRLESS® tip to improve the quality of AIRLESS® atomization. Reduces spray atomization pressure.

| Used with tip size in (mm) | Marking | Part number |
|---|---------|-------------|
| 0.007 - 0.009 (0.17 - 0.22) | 9 | 500109 |
| 0.011 (0.27) | 13 | 500113 |
| 0.013 - 0.015 (0.33 - 0.38) | 16 | 500116 |
| 0.016 - 0.018 - 0.020 - 0.021 (0.40 - 0.45 - 0.50 - 0.53) | 25 | 500125 |
| 0.024 (0.60) and + | 39 | 500139 |



Accessories for AIRLESS® guns

Unplugging needles for flat tips



| Description | Tip size (mm) | Quantity | Part number |
|--------------------|---------------|----------|-------------|
| Unplugging needles | ≤ 0.9 | 12 | 000.094.000 |
| | ≥ 0.9 | | 000.094.002 |

Swivel fitting



| Description | Maximum fluid pressure (bar) | Thread | | Part number |
|----------------------|------------------------------|-------------|------------|-------------|
| | | Inlet | Outlet | |
| Twist swivel fitting | 500 | M 1/2" JIC | F 1/2" JIC | 129.670.425 |
| | | M 1/4" NPSM | F 1/2" JIC | 129.670.435 |

In-line paint filter

With its compact dimensions, it fits on base of the handle or between two hoses.



| Description | Set-up | Maximum fluid pressure (bar) | Thread | | Part number |
|---|------------------------|------------------------------|----------|----------|-------------|
| | | | Inlet | Outlet | |
| Stainless steel filters supplied with 6 screen - 168µ | Between 2 hoses | 200 | M1/2 JIC | M1/2 JIC | 155.010.000 |
| | At the gun fluid inlet | | | F1/2 JIC | 155.010.100 |

Gun screen filter (Compatible for Sflow™, ASB and ASC)

| Screen in stainless steel for deflector | Size (µm) | Quantity | Part Number |
|---|-----------|----------|-------------|
| N° 4 | 100 | 5 | 129.982.021 |
| N° 6 | 168 | 5 | 129.982.022 |
| N° 12 | 280 | 5 | 129.982.023 |

Maintenance kit for old automatic guns

Maintenance kit for ASI 24 & ASI40 gun

| Description | Part number |
|-------------|-------------|
| Seal kit | 129.980.901 |
| GT packing | 129.980.310 |
| Needle line | 033.980.100 |

Maintenance kit for ASI40 GT & ASI40 GTV gun

| Description | Part number |
|------------------------|-------------|
| Seal kit | 129.980.901 |
| Fluid packing assembly | 129.971.102 |
| Pack of 50 needles | 129.980.520 |

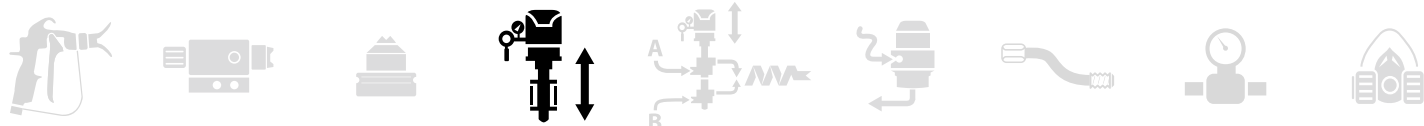
Maintenance kit for AS2 gun

| Description | Part number |
|-------------------------|-------------|
| PTFE cartridge assembly | 129.973.100 |
| Needle | 000.152.208 |
| Carbide seat | 129.461.300 |
| SOFT seat | 129.461.305 |

Diaphragm for ASI Range and AS2 spray gun

A diaphragm has to be chosen depending on the tip size. it increases the quality of atomization. It is installed before the tip and his seal

| Description | For tip size | fitting | Part Number |
|------------------------------------|--------------|---------|-------------|
| Diaphragm 12 | 03 to 06 | M11/16" | 000.029.112 |
| Diaphragm 15 | 09 to 12 | M11/16" | 000.029.115 |
| Diaphragm 18 | 14 to 18 | M11/16" | 000.029.118 |
| Diaphragm 20 | 20 | M11/16" | 000.029.120 |
| Diaphragm 25 | 30 | M11/16" | 000.029.125 |
| Diaphragm 60 - mounted on standard | - | M11/16" | 000.029.160 |
| Diaphragm 60 - For M25x175 guard | - | M25x175 | 129.740.074 |



Cup pumps

> An Airless spraying system is included the following equipment list (at minimal):

- A pump
- 1 Fluid hose
- A gun

> Every of our Airless pumps, hereafter detailed, are built in the same way:

1. One Pneumatic air motor
2. One hydraulic section.
3. One manometer to pilote the compressed air entering the engine



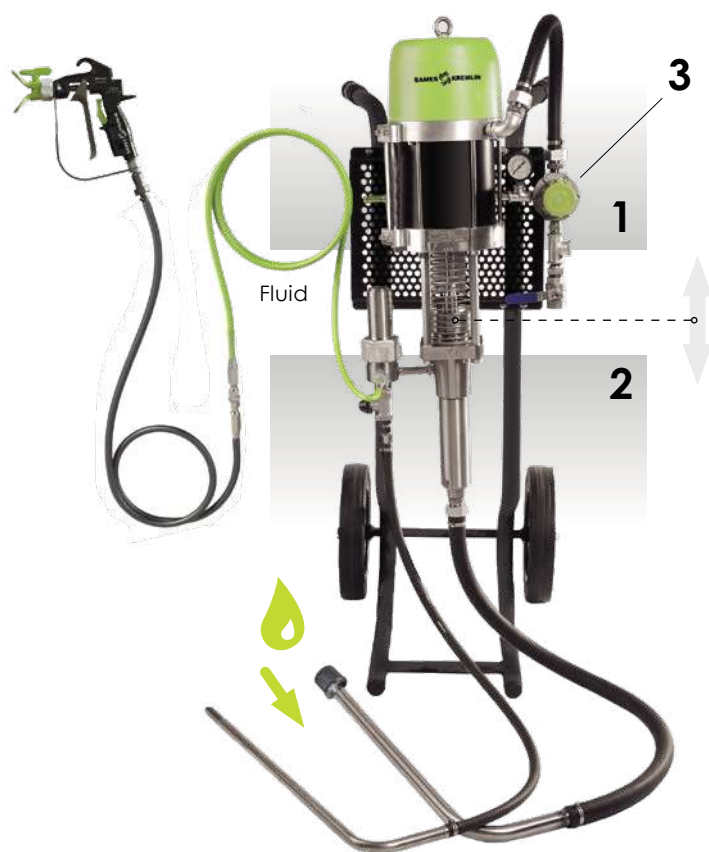
The role of a pump is to suck the fluid from the drum and exhaust it under high pressure to the gun through an hose.

SAMES KREMLIN is a world leader in pneumatic piston pump manufacturing which is the benchmark technology in the industry for many reasons:

- No risk of fire in the presence of solvent vapors.
- Very high pressure even with the most viscous products.
- Continuous feed without flow variation (*thanks to double-acting operation*), ideal to guarantee consistency of thickness and high finishing result.

Then, pump accessories can be added as standard or optional to complete the equipment:

- Suction elements: suction tube with a selection of different diameter or gravity hopper
- Filter at the pump outlet with purge rod - to limit nozzle clogging and to facilitate the priming/ flushing of your equipment.
- Wall mounted frame, trolley or tripod.



A pump must be selected according 2 essential parameters:

- The pressure ratio, brings the necessary power to transport the Fluid and to atomize it
- The hydraulic section size, which will allow the feeding of 1 or several guns

Selecting the correct pump for your application and adapted to your material requires know-how and our local SAMES KREMLIN teams are there to help you. It is important to mention that all our pumps are compatible with solvent and water-based materials.

➤ The following chapter introduces you to our range of cup pumps. These pumps are built with a cup on top of the hydraulics which have to be filled with lubricant.

This lubricant ensures constant piston lubrication and must be compatible with the pumped material.



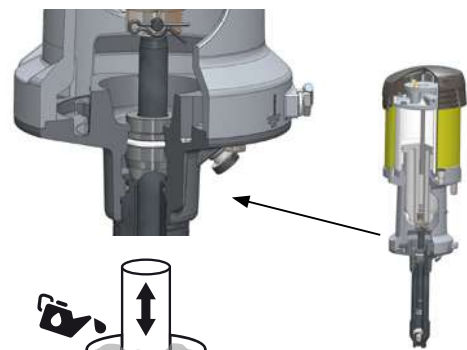
This **Cup-lub pump technology** has many advantages:

- Increases the pump lifetime: the lubricant prevents any paint drying on the piston
- Represents a visual leak indicator, alerting the user of the need to retighten the seal or to charge them
- Limits heating of the piston

Finally, our know-how is to propose a multitude of pump's option to prolong their lifespan whatever the material used and your constraints of application:

- Choice of different seals, GT, PFA, PU, MB-A, PTFE G, UHMW, Leather, Polyfluid, the table below will help you in your choice
- Ball valve option in stainless steel 316 or 316L, carbide or in ceramic
- Engine with anti-icing Turbo option

It's a safe bet that you will find the pump you need in the following pages



Cup lub technology



Selection table per features

| FEATURES | BENEFITS | 10C18 | 15C25 | 15C50 | 30C25 | 35C50 | 40C50 | 40C50WB | 40C100 | 40C100WB | 40C260 | Azur™ 52C225 / 72C160 | 65C260 | 80C220 |
|---|--|-------|-------|-------|-------|-------|-------|---------|--------|----------|--------|-----------------------------|--------|--------|
| Stainless steel design | Compatible with water-based and solvent-based materials | | | | | | | | ✓ | | | | | |
| Simple design, reduced number of spare parts | Easy maintenance | | ✓ | | | | ✓ | | ✓ | ✓ | - | ✓ | - | ✓ |
| Compact design | Fits in small working areas | | | ✓ | | | - | - | - | - | - | - | - | - |
| large diameter suction rod and high compression ratio | Can be used with a wide range of materials | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Fluid section with mobile lower packing construction | Improved material refilling and emptying for constant output improved sealing - easier maintenance | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Simple and accessible air motor/fluid section coupling without tie rod | Possibility to rotate the fluid section to adjust the | - | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - |
| Double stroke fluid section | fluid output on the application | - | | | | | | | ✓ | | | | | |
| Closed design with protective cover between air motor and fluid section | lubricant protection against external pollution Full operator safety | | | ✓ | | | - | - | - | - | - | ✓* | - | - |
| Progressive strat up with very low air pressure | Easy priming at very low fluid discharge pressure. No pulsation even with 0.5 bar of air | | | ✓ | | | - | - | - | - | - | ✓ | - | - |
| Puls-Absorber™ technology | Stable and smooth flow | - | - | - | - | - | - | ✓ | - | ✓ | - | ✓ | - | - |
| Stainless steel strainer | Long service life and good reliability. No crushing possible | | | ✓ | | | - | ✓ | - | ✓ | - | ✓ | - | - |
| Rugged design | Excellent performances and easy maintenance in hard to reach places | - | - | - | - | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ |
| Air motor muffler included | Very silent pump for better comfort of the operator | - | - | - | - | - | - | - | - | - | ✓ | ✓ | ✓ | - |
| High pressure ratio | High power, compatible with long hose lengths | - | - | - | - | - | - | - | - | - | - | ✓ | ✓ | ✓ |
| VDE technology | Reduced noise pollution due to an enhanced exhaust/muffler technology | - | - | - | - | - | - | - | - | - | - | ✓ | - | - |
| | Reduced ising potential | - | - | - | - | - | - | - | - | - | - | ✓ | - | - |
| | Stalling free : Fast pump changer over design to eliminate pulsation during application | - | - | - | - | - | - | - | - | - | - | ✓ | - | - |
| | | | | | | | | | | | | | | |
| Sprayed material | Waterbased | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Solvent base | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Primers | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Zinc charged primer | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Stains | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - |
| | Direct Gloss / Metallic | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Top coats | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | UV products | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Moisture sensitive | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Two components | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Protective coating / abrasives | - | - | - | - | ✓ | - | ✓ | - | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Adhesives | - | - | - | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Silicone | - | - | - | - | - | - | - | - | - | - | ✓ | - | ✓ |
| | Sealants | - | - | - | - | - | - | - | - | - | - | - | - | ✓ |
| | Greases | - | - | - | - | - | - | - | - | - | - | - | - | ✓ |
| | Wax | - | - | - | - | - | - | - | - | - | - | - | - | - |

✓ available

✓* optional

Selection table of Cup pumps

Selection table per technicity

| Pump name | | 10C18 | 15C25 | 15C50 | 30C25 | 35C50 | 40C50 | 40C50WB |
|---|------------------------|-----------|-----------|-----------|----------|-----------|---------------------------|---------------------------|
| Construction | | | | | | | | |
| Stainless Steel | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Upper sealing available | GT cartridge | ✓ | ✓ | - | ✓ | - | ✓* | - |
| | MB-GT cartridge | - | - | ✓* | - | ✓* | - | - |
| | MB-A cartridge | - | ✓ | ✓ | ✓ | ✓ | - | - |
| | PTFE G + Polyfluid | - | - | - | - | - | ✓ | ✓ |
| | PTFE G + PE | - | - | - | - | - | - | - |
| | PE | - | - | - | - | - | ✓ | ✓ |
| | Leather + PE | - | - | - | - | - | - | - |
| | PU | - | - | - | - | - | - | - |
| | PTFE | - | - | - | - | - | - | - |
| | PTFE + PE | - | - | - | - | - | - | - |
| | PTFE G | - | - | - | - | - | - | - |
| | PU + PE + Acetal resin | - | - | - | - | - | - | - |
| | PU | ✓ | - | - | - | - | - | - |
| Lower sealing available | GT | ✓* | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | UHMW polyethylene | - | - | - | - | - | - | - |
| | PTFE G + PE | - | - | - | - | - | * | - |
| | PTFE | - | - | - | - | - | - | - |
| | PTFE + PE | - | - | - | - | - | - | - |
| | Leather + PE | - | - | - | - | - | - | - |
| | PTFE G | - | - | - | - | - | - | - |
| Ball | Stainless steel | - | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 316 | ✓ | - | - | - | - | ✓ | - |
| | Carbide | - | - | - | - | - | - | - |
| | Ceramic | ✓* | - | - | - | - | - | - |
| Assembling | | | | | | | | |
| Bare | | - | - | - | - | - | ✓ | - |
| Wall mounted | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Cart mounted | | ✓* | ✓* | ✓* | ✓* | ✓* | ✓ | ✓ |
| Dimension (wall mounted pump without filter or suction rod) | | | | | | | | |
| Height (mm) | | 390 | 585 | 585 | 585 | 600 | 800 | 920 |
| Width (mm) | | 270 | 158 | 159 | 158 | 230 | 400 | 400 |
| Depth (mm) | | 150 | 170 | 160 | 170 | 230 | 280 | 280 |
| Weight (kg) | | 5,3 | 7,6 | 8 | 7,6 | 12 | 22 | 22 |
| Characteristics | | | | | | | | |
| Pressure ratio | | 10/1 | 15/1 | | 30/1 | 35/1 | 40/1 | 40/1 |
| Output per cycle (cc) | | 18 | 25 | 50 | 25 | 50 | 50 | 50 |
| Number of cycle (per liter) | | 55 | 40 | 20 | 40 | 20 | 20 | 20 |
| Output at 30 cycles/min (L) | | 0,55 | 0,75 | 1,5 | 0,75 | 1,5 | 1,5 | 1,5 |
| Free flowrate (L/min) | | 1,1 | 1,5 | 3 | 1,5 | 3 | 3 | 3 |
| Max fluid pressure (bar) | | 60 | 90 | 90 | 180 | 210 | 240 | 240 |
| Max Paint temperature (°C) | | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Operating air pressure (bar) | | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 |
| Air consumption at 30 cyc/min and 4 bar (m(3)/h) | | 1,9 | 2,8 | 8,1 | 7,1 | 18,9 | 21,6 | 21,6 |
| Fittings | | | | | | | | |
| Air inlet | | F 3/8 BSP | | | | | | |
| Fluid Inlet - Bare pump | | F 1/2 BSP | F 1/2 BSP | F 1/2 BSP | M 26x125 | F 1/2 BSP | F 1/2BSP | F 1" |
| Fluid inlet - Assembled pump | | - | M26x125 | M26x125 | M 26x125 | M26x125 | M 26x125 | M 1" |
| Fluid Outlet - Bare pump | | - | - | F 3/8 NPS | - | F 3/8 NPS | F 3/8 NPS | F 3/8 NPS |
| Fluid Outlet - Assembled pump | | M 1/2 JIC | | | | | M 1/2 JIC (filter output) | M 1/2 JIC (filter output) |

✓ available

✓* optional

Selection table of Cup pumps

| Pump name | | 40C100 | 40C100WB | 40C260 | Azur™ 52C225 / 72C160 | 65C260 | 80C220 |
|---|------------------------|---------------------------|---------------------------|------------------|-----------------------|------------------|------------|
| Construction | | | | | | | |
| Stainless Steel | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Upper sealing available | GT cartridge | ✓* | - | ✓ | - | ✓* | - |
| | MB-GT cartridge | - | - | - | - | - | - |
| | MB-A cartridge | - | - | - | - | - | - |
| | PTFE G + Polyfluid | ✓ | ✓ | - | - | - | - |
| | PTFE G + PE | - | - | ✓ | ✓ | ✓ | - |
| | PE | ✓* | ✓* | - | - | - | - |
| | Leather + PE | - | - | - | ✓ | - | ✓ |
| | PU | ✓* | ✓* | ✓ | - | ✓* | - |
| | PTFE | - | - | - | - | - | ✓ |
| | PTFE + PE | - | - | - | ✓ | - | ✓* |
| | PTFE G | - | - | - | - | - | ✓* |
| | PU + PE + Acetal resin | - | - | - | - | - | ✓* |
| Lower sealing available | PU | ✓* | ✓* | ✓ | - | ✓* | - |
| | GT | ✓ | ✓ | ✓ | - | ✓ | - |
| | UHMW polyethylene | - | - | - | - | - | - |
| | PTFE G + PE | ✓* | - | - | - | - | ✓* |
| | PTFE | - | - | - | - | - | ✓* |
| | PTFE + PE | - | - | - | ✓ | - | ✓* |
| | Leather + PE | - | - | - | ✓ | - | ✓* |
| | PTFE G | - | - | - | - | - | ✓* |
| Ball | Stainless steel | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 316 | ✓* | - | - | - | - | - |
| | Carbide | - | - | - | ✓* | - | - |
| | Ceramic | - | - | - | ✓* | - | - |
| Assembling | | | | | | | |
| Bare | | ✓ | - | - | ✓ | - | - |
| Wall mounted | | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| Cart mounted | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dimension (wall mounted pump without filter or suction rod) | | | | | | | |
| Height (mm) | | 800 | 920 | 1080 | 1132 | 1120 | 1360 |
| Width (mm) | | 400 | 400 | 640 | 317 | 480 | 740 |
| Depth (mm) | | 280 | 280 | 325 | 425 | 500 | 830 |
| Weight (kg) | | 22 | 22 | 110 | 60,4 | 86 | 125 |
| Characteristics | | | | | | | |
| Pressure ratio | | 40/1 | 40/1 | 40/1 | 52/1 // 72/1 | 65/1 | 80/1 |
| Output per cycle (cc) | | 100 | 100 | 240 | 225 / 160 | 260 | 220 |
| Number of cycle (per liter) | | 10 | 10 | 4 | 4.5 / 6 | 4 | 4,5 |
| Output at 30 cycles/min (L) | | 3 | 3 | 7,2 | 6.75 / 4.8 | 7,8 | 6,6 |
| Free flowrate (L/min) | | 6 | 6 | 14,4 | 13.5 / 9.6 | 14,4 | 13,6 |
| Max fluid pressure (bar) | | 240 | 240 | 240 | 312 / 432 | 390 | 480 |
| Max Paint temperature (°C) | | 60 | 60 | 60 | 60 | 60 | 60 |
| Operating air pressure (bar) | | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 |
| Air consumption at 30 cyc/min and 4 bar (m(3)/h) | | 43,2 | 43,2 | 96,8 | 126 / 124 | 157,3 | 190 |
| Fittings | | | | | | | |
| Air inlet | | F 3/4 BSP | F 3/4 BSP | F 3/4 BSP | M 3/4 BSP | F 3/4 BSP | F 3/4 BSP |
| Fluid Inlet - Bare pump | | F 1/2BSP | F 1" | F 1" | M 3/4" BSP | F 1" | F 1" |
| Fluid inlet - Assembled pump | | M 26x125 | M 1" | M 38 x 150 Elbow | M 1" 1/4 BSP | M 38 x 150 Elbow | M 1" Elbow |
| Fluid Outlet - Bare pump | | F 3/8 NPS | F 3/8 NPS | F 3/4 NPS | F 3/4 BSP | F 3/4 NPS | F 1" |
| Fluid Outlet - Assembled pump | | M 1/2 JIC (filter output) | M 3/4 JIC (filter output) | M 3/4 JIC | M 3/8 NPSM | M 3/4 JIC | M 3/4 JIC |

✓ available

✓* optional

10C18

The 10C18 Airless Fine Finish painting pump is only available as a complete spraying package. It ensures constant and pulse free delivery for superior finish.

- **Designed for long-lasting industrial use**
- **Fast color changes with minimum solvent consumption**
- **Simple design to minimize maintenance time and operation**

COMPACT DESIGN ENSURING CONSTANT DELIVERY AND PULSE FREE FOR SUPERIOR FINISH



Configuration of the 10C18 Airless paint pump

The 10C18 is only available under spray pack, please refer to chapter "Table of spray pack", page 11, for part number list

Maintenance kits

| Description | Part number |
|---|-------------|
| Repair kit for 340/2 air motor | 144.850.150 |
| C18 fluid section repair kit | 144.855.799 |
| * PU red seal for exhaust valve - recommended for water-based materials | 144.855.704 |

Accessories

| Description | Part number |
|--|-------------|
| Tripod | 151.665.705 |
| Single Post Cart | 051.730.110 |
| Handle | 051.665.651 |
| Suction rod Ø6.35 plunging tube length 420mm | 151.665.640 |
| Easyflush suction rod Ø16 plunging tube length 600 mm | 149.596.050 |
| Easyflush suction rod Ø16 plunging tube length 1000mm (for 200 liters drums) | 149.596.060 |

15C25

The compact Airless painting pump is the ideal partner for your Airless spray guns, providing exceptional finish quality & high transfer efficiency.

- **Efficiency:** perfect for Airless fine finish
- **Optimization:** built with minimal parts
- **Simplicity:** lowest cost of ownership

ACCELERATOR OF PERFORMANCE



Configuration of Airless 15C25 paint pump

| Set-up | Cartridge | fluid inlet fitting | Suction rod | drain rod | Atomizing air regulator | Fluid pressure regulator | Filter pump outlet | Part number |
|---------------|-----------|---------------------|-------------|-----------|-------------------------|--------------------------|--------------------|-------------|
| Airless 15c25 | GT | M 26x125 | ø 16 | - | - | ✓ | - | 151.140.300 |
| | MB-A | M 26x125 | ø 16 | - | - | ✓ | - | 151.140.650 |

Maintenance kits

| Description | Part number |
|------------------------------------|-------------|
| Servicing kit - Motor 245-4 | 144.140.190 |
| Servicing kit - hydraulic C25 | 144.130.291 |
| GT cartridge | 144.130.205 |
| MB-A Cartridge | 144.130.365 |
| Piston assembly and MB-A cartridge | 144.130.389 |

Accessories

| Description | Part number |
|---|-------------|
| Wall-mounted totem | 151.140.240 |
| Stand | 151.140.210 |
| Double Post Cart | 151.241.000 |
| Gravity Hopper 6 liters | 151.140.230 |
| 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 drain rod F18 x 125 | 049.596.000 |
| Fluid filter | 155.580.600 |
| Air plate with 1 air regulator | 151.140.060 |

*: +/- 2% according to norm (EN 13966-1)

15C50

The compact Airless paint pump is the ideal partner for your Airless spray guns providing exceptional finish quality & high transfer efficiency.

- Perfect Airless fine finish application
- Built with minimal parts
- Lowest cost of ownership

ACCELERATOR OF PERFORMANCE



Configuration of the 15C50 Airless paint pump

| Set-up | Cartridge | fluid inlet fitting | Suction rod | Drain rod | Atomizing air regulator | Fluid pressure regulator | Filter pump outlet | Part number |
|---------------|-----------|---------------------|-------------|-----------|-------------------------|--------------------------|--------------------|-------------|
| Airless 15C50 | GT | F 1/2 BSP | - | - | - | ✓ | - | 151.145.500 |

Maintenance kits

| Description | Part number |
|------------------------------------|-------------|
| Servicing kit - Motor 420-4 | 144.130.190 |
| Servicing kit - Hydraulic C50 | 144.135.237 |
| GT cartridge | 144.135.205 |
| MB-A Cartridge | 144.135.365 |
| Piston assembly and GT cartridge | 144.135.291 |
| Piston assembly and MB-A cartridge | 144.135.389 |

Accessories

| Description | Part number |
|---|-------------|
| Wall-mounted totem | 151.140.240 |
| Stand | 151.140.210 |
| Double Post Cart | 151.241.000 |
| Gravity Hopper 6 liters | 151.140.230 |
| 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 drain rod F18 x 125 | 049.596.000 |
| Fluid filter | 155.580.600 |
| Air plate with 1 air regulator | 151.140.060 |

30C25

This compact Airmix® paint pump is the ideal partner for your Airmix® spray guns providing exceptional finish quality & high transfer efficiency.

- Efficiency - perfect for Airless fine finish application
- Optimization - built with minimal parts
- Simplicity - lowest cost of ownership

ACCELERATOR OF PERFORMANCE



Configuration of the 30C25 Airless paint pump

| Set-up | Cartridge | fluid inlet fitting | Suction rod | drain rod | Atomizing air regulator | Fluid pressure regulator | Filter pump outlet | Part number |
|---------------|-----------|---------------------|-------------|-----------|-------------------------|--------------------------|--------------------|-------------|
| Airless 30C25 | GT | M26x125 | - | - | - | ✓ | - | 151.145.050 |
| Airless 30C25 | MB-A | M26x125 | - | - | - | ✓ | - | 151.145.500 |
| Airless 30C25 | GT | M26x125 | ø25 | - | - | ✓ | ✓ | 151.145.300 |
| Airless 30C25 | MB-A | M26x125 | ø25 | - | - | ✓ | ✓ | 151.145.750 |

Maintenance kits

| Description | Part number |
|------------------------------------|-------------|
| Servicing kit - Motor 245-4 | 144.140.190 |
| Servicing kit - hydraulic C25 | 144.130.291 |
| GT cartridge | 144.130.205 |
| MB-A Cartridge | 144.130.365 |
| Piston assembly and MB-A cartridge | 144.130.389 |

Accessories

| Description | Part number |
|---|-------------|
| Wall-mounted totem | 151.140.240 |
| Stand | 151.140.210 |
| Double Post Cart | 151.241.000 |
| Gravity Hopper 6 liters | 151.140.230 |
| 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 drain rod F18 x 125 | 049.596.000 |
| Fluid filter | 155.580.600 |
| Air plate with 1 air regulator | 151.140.060 |

35C50

The 35C50 Airless paint pump ensures constant and pulse-free delivery for superior, industrial finishing.

- Designed for long-lasting industrial use
- Fast color changes with minimum solvent consumption
- Simple design to minimize maintenance time and operation

ACCELERATOR OF PERFORMANCE



Configuration of the 35C50 Airless paint pump

| Set-up | Cartridge | fluid inlet fitting | Suction rod | Drain rod | Atomizing air regulator | Fluid pressure regulator | Filter pump outlet | Part number |
|---------------|-----------|---------------------|-------------|-----------|-------------------------|--------------------------|--------------------|-------------|
| Airless 35C50 | MB-A | F 1/2" | - | - | - | ✓ | - | 144.148.150 |
| | MB-A | M26x125 | - | - | - | ✓ | - | 151.148.200 |
| | MB-A | M26x125 | ø25 | - | - | ✓ | - | 151.148.300 |
| | MB-A | M26x125 | ø25 | - | - | ✓ | ✓ | 151.148.350 |

Maintenance kits

| Description | Part number |
|------------------------------------|-------------|
| Servicing kit - Motor 970-4 | 144.160.191 |
| Servicing kit - Hydraulic C50 | 144.135.237 |
| GT cartridge | 144.135.205 |
| MB-A Cartridge | 144.135.365 |
| Piston assembly and GT cartridge | 144.135.291 |
| Piston assembly and MB-A cartridge | 144.135.389 |

Accessories

| Description | Part number |
|---|-------------|
| Wall-mounted totem | 151.140.240 |
| Stand | 151.140.210 |
| Double Post Cart | 151.241.000 |
| Gravity Hopper 6 liters | 151.140.230 |
| 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 drain rod F18 x 125 | 049.596.000 |
| Fluid filter | 155.580.600 |
| Air plate with 1 air regulator | 151.140.060 |

40C50



This paint pump is the perfect pump for Airless® applications.

- Ideal for Airless applications
- High efficiency pump for maximum energy savings
- Optimized construction for simple & quick maintenance

PRODUCTIVITY FOR ALL



Configuration of the 40C50 Airless paint pump

| Set-up | Suction rod (ø 25) | Drain rod | Atomizing air regulator | Fluid pressure regulator | Filter pump outlet | Part number |
|--------------------|-----------------------|-----------|----------------------------|-----------------------------|--------------------|-------------|
| 40C50 bare pump | M26x125 | - | - | - | - | 144.148.150 |
| Wall mounted | - | - | - | ✓ | - | 151.775.050 |
| Wall mounted | ✓ | ✓ | - | ✓ | - | 151.775.100 |
| Wall mounted | - | ✓ | - | ✓ | ✓ | 151.775.150 |
| Wall mounted | ✓ | ✓ | - | ✓ | ✓ | 151.775.200 |
| 2 arm cart mounted | ✓ | ✓ | - | ✓ | ✓ | 151.775.400 |

Maintenance kits

| Description | Part number |
|---|-------------|
| Seals kit - 1000-4 air motor | 146.270.991 |
| Servicing kit - 1000-4 air motor | 146.270.995 |
| Seals kit - C50 with upper Polyfluid & lower GT | 144.950.091 |
| Servicing kit - C50 with upper Polyfluid & lower GT | 144.950.096 |
| Seals kit - C50 with upper & lower GT | 144.950.090 |
| Servicing kit - C50 with upper & lower GT | 144.950.095 |

Accessories

| 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 |
| Filter | 155.580.400 |

40C50 WB

This water-based paint pump provides exceptional performance for high viscosity paints.

- Ideal for Airless water-based applications
- High efficiency pump for maximum energy savings
- Optimized construction - simple & quick maintenance

ACCELERATOR OF PERFORMANCE



Configuration of the 40C50 WB Airless paint pump

| Set-up | Suction rod (Ø 1") | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|---------------------|--------------------|-----------|------------------------------|--------------------|-------------|
| Wall mounted | ✓ | ✓ | ✓ | ✓ | 151.775.550 |
| 2 arms cart mounted | ✓ | ✓ | ✓ | ✓ | 151.775.500 |

Maintenance kits

| Description | Part number |
|---------------------------------|-------------|
| WB seal kit | 144.950.991 |
| Repair kit | 144.950.992 |
| Seal kit for 1000-4 air motor | 146.270.991 |
| Repair kit for 1000-4 air motor | 146.270.995 |

Accessories

| Description | Part number |
|--|-------------|
| Two Post Cart w/o plate | 051.221.000 |
| Two Post Pump Mounting Plate | 056.100.199 |
| Suction rod 1" | 921.270.101 |
| Stainless steel flushing rod F18 x 125 | 049.596.000 |
| Filter | 155.580.400 |

40C100

This paint pump is perfect for Airless applications and provides exceptional performance.

- Ideal for Airless applications
- High efficiency pump for maximum energy savings
- Optimized construction - simple & quick maintenance



Configuration of the 40C100 Airless paint pump

| Set-up | Suction rod (Ø 25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|---------------------|--------------------|-----------|------------------------------|--------------------|-------------|
| 40C100 bare pump | M 26 x 125 | - | - | - | 151.785.000 |
| Wall mounted | - | - | ✓ | - | 151.785.050 |
| Wall mounted | ✓ | - | ✓ | - | 151.785.100 |
| Wall mounted | - | ✓ | ✓ | ✓ | 151.785.150 |
| Wall mounted | ✓ | ✓ | ✓ | ✓ | 151.785.200 |
| 2 arms cart mounted | ✓ | ✓ | ✓ | ✓ | 151.785.400 |

Maintenance kits

| Description | Part number |
|--|-------------|
| Seals kit - 2000-4 air motor | 146 270 990 |
| Servicing kit - 2000-4 air motor | 146 270 996 |
| Seals kit - C100 with upper Polyfluid & lower GT | 144 960 091 |
| Servicing kit - C100 with upper Polyfluid & lower GT | 144 960 096 |
| Seals kit - C100 with upper Polyfluid & lower chevron | 144 960 090 |
| Servicing kit - C100 with upper Polyfluid & lower chevron | 144 960 095 |
| Servicing kit - C100 with upper Polyfluid & lower chevron | 144 960 095 |
| Servicing kit - C100 with upper & lower PU - H2O Application | 144 960 159 |

Accessories

| 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 |
| Filter | 155.580.400 |

40C100 WB

This water-based (WB) type paint pump provides exceptional performance for high viscosity paints.

- Ideal for Airless water-based applications
- High efficiency pump for maximum energy savings
- Optimized construction - simple & quick maintenance



Configuration of the 40C100 WB Airless paint pump

| Set-up | Suction rod (Ø 1") | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|---------------------|--------------------|-----------|------------------------------|--------------------|-------------|
| Wall mounted | - | - | ✓ | - | 151.785.510 |
| Wall mounted | - | ✓ | ✓ | ✓ | 151.785.520 |
| Wall mounted | ✓ | ✓ | ✓ | ✓ | 151.785.550 |
| 2 arms cart mounted | ✓ | ✓ | ✓ | ✓ | 151.785.500 |

Maintenance kits

| Description | Part number |
|---------------------------------|-------------|
| WB seal kit | 144.960.891 |
| WB repair kit | 144.960.892 |
| Seal kit for 2000-4 air motor | 146.270.990 |
| Repair kit for 2000-4 air motor | 146.270.996 |

Accessories

| Description | Part number |
|---|-------------|
| Adaptator stainless steel F 3/4" JIC/M 1/2" JIC | 905.160.219 |
| Two Post Cart w/o plate | 051.221.000 |
| Two Post Pump Mounting Plate | 056.100.199 |
| Suction rod 1" | 921.270.101 |
| Stainless steel flushing rod F18 x 125 | 049.596.000 |
| Filter | 155.581.400 |

40C260

This Airless® 40C260 High Pressure Pump is designed for the application of water or solvent based with medium to high viscosity materials.

- All stainless steel construction
- High output pump
- Very simple and fast servicing



Configuration of the 40C260 Airless paint pump

| Set-up | Upper sealing | Lower sealing | Suction rod (1") | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|--------------|---------------|---------------|------------------|-----------|------------------------------|--------------------|-------------|
| Wall mounted | PTFE G + PE | GT | - | - | ✓ | - | 151.870.500 |
| Wall mounted | PTFE G + PE | GT | - | - | ✓ | ✓ | 151.870.800 |
| Wall mounted | GT | GT | - | - | ✓ | ✓ | 151.870.670 |
| Wall mounted | PU | PU | - | - | ✓ | ✓ | 151.870.660 |
| Wall mounted | PTFE G + PE | GT | ✓ | - | ✓ | ✓ | 151.870.600 |
| Cart-mounted | PTFE G + PE | GT | ✓ | - | ✓ | ✓ | 151.870.700 |

Maintenance kits

| Description | Part number |
|---|-------------|
| Seal kit 5000-4_2 air motor | 146.280.991 |
| Servicing kit 5000-4_2 air motor | 146.280.996 |
| Seal kit C260 upper PTFE G - PE & lower GT | 144.025.090 |
| Seal kit C260 PU (upper & lower) | 144.025.691 |
| Seal kit C260 GT (upper & lower) | 144.025.693 |
| Servicing kit C260 upper PTFE G - PE & lower GT | 144.025.695 |
| Servicing kit C260 PU (upper & lower) | 144.025.692 |
| Servicing kit C260 PU (upper & lower) | 144.025.694 |
| Conversion kit from old to new generation of Hydraulic C260 | 151.870.499 |
| Complete PU cartridge | 144.710.200 |

Accessories

| Description | Part number |
|---|-------------|
| Two Reinforced Arms w/o mounting plate | 051.231.000 |
| Pump bracket | 051.341.206 |
| Suction rod Ø1" | 921.270.101 |
| Stainless steel flushing rod F18 x 125 | 049.596.000 |
| Pack of 2 U-bolts, 4 washers, 4 nuts | 151.730.114 |
| Fluid filter | 155.581.400 |
| Adaptor Stainless steel F 3/4" JIC/M 1/2" JIC | 905.160.219 |

Azur™ 52C225

Azur™ range is the recommended line for the protective coatings market. The pump will transfer material without compromising your finish quality whether you are using single component paints, pre-mixed 2K, zinc-rich materials, and other types of coatings.

- High finishing protective coatings applications
- Designed to operate well in harsh and intensive environments
- Simple maintenance and comfortable to use

ADDICTED TO WORK



Configuration of the Azur™ 52C225 Airless protective coating pump

| | Sealing | | | Air regulator Fluid pressure | Suction | | | Output filter | Part Number |
|-----------------------|--------------------------|-----------------|---------|---------------------------------|----------------|-----------------|-------------------|------------------|----------------|
| | | Wall mounted | Trolley | | Hose 600 mm | Hose 1000 mm | Gravity hopper | | |
| BARE | #03 - UHMWPE +PTFE | - | - | - | - | - | - | - | 64350225130000 |
| W/M SUC 30L W/O FILT | | ✓ | - | ✓ | ✓ | - | - | - | 64350225131101 |
| W/M SUC 200L W/O FILT | | ✓ | - | ✓ | - | ✓ | - | - | 64350225135101 |
| W/M SUC 200L FILT SST | | ✓ | - | ✓ | - | ✓ | - | ✓ | 64350225135111 |
| MOB SUC 30L FILT SST | | - | ✓ | ✓ | ✓ | - | - | ✓ | 64350225131115 |
| MOB HOPPER FILT SST | | - | ✓ | ✓ | - | - | ✓ | ✓ | 64350225134115 |

Maintenance kits

| Description | Part number |
|---|-------------|
| Air motor seals kit | 146.371.040 |
| C225 Servicing kit (does not include seals) | 144.050.225 |
| C225 Seal kit - All purpose - #03 - UHMWPE+PTFE | 144.050.313 |
| C225 Seal kit - Abrasive - #04 - UHMWPE+Leather | 144.050.314 |
| C225 Seal kit - Warm - #05 - UHMWPE+PTFE G | 144.050.315 |

Accessories

| Description | Part number |
|--|-------------|
| Suction rod 1"1/4 L=600 mm | 149.597.200 |
| Suction rod 2" L=600 mm | 149.597.210 |
| Suction rod 1"1/4 L=1000 mm | 149.597.250 |
| Priming kit (without filter) for 3/8" hoses | 151.590.012 |
| SST Equipped filter | 155.581.456 |
| Heavy duty trolley | 151.590.700 |
| Gravity hopper 20L | 125.010.000 |
| Magma heater range (refer to page 66 for P/N detail) | 156.160.0XX |
| Kit 1 sprayer : SFlow™ 470 with Tip Top 18-13 (519) - 1.6M + 1.6M hoses + fittings | 151.590.016 |
| 14 Seals PTFE G | 144.050.326 |
| 14 Seals PTFE | 144.050.325 |
| 14 Seals Leather | 144.050.324 |
| 14 Seals UHMWPE | 144.050.323 |

65C260

This Airless® 65C260 High Pressure Pump is designed for the application of water or solvent-based with medium to high viscosity materials.

- All stainless steel construction
- High output pump
- Very simple and fast servicing



Configuration of the 65C260 Airless paint pump

| Set-up | Suction rod (Ø25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|--------------|-------------------|-----------|------------------------------|--------------------|-------------|
| Wall mounted | ✓ | - | ✓ | ✓ | 151.880.600 |
| Cart-mounted | ✓ | - | ✓ | ✓ | 151.880.700 |

Maintenance kits

| Description | Part number |
|---|-------------|
| Seal kit 8000-4-2 air motor | 146.258.991 |
| Servicing kit 8000-4-2 air motor | 146.258.996 |
| Seal kit C260 upper PTFE G - PE & lower GT | 144.025.090 |
| Seal kit C260 PU (upper & lower) | 144.025.691 |
| Seal kit C260 GT (upper & lower) | 144.025.693 |
| Servicing kit C260 upper PTFE G - PE & lower GT | 144.025.695 |
| Servicing kit C260 PU (upper & lower) | 144.025.692 |
| Servicing kit C260 PU (upper & lower) | 144.025.694 |
| Conversion kit from old to new generation of Hydraulic C260 | 151.870.499 |

Accessories

| 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 flushing rod F18 x 125 | 049.596.000 |
| Pack of 2 U-bolts, 4 washers, 4 nuts | 151.730.114 |
| Fluid filter | 155.581.400 |
| Adaptor Stainless steel F 3/4" JIC/M 1/2" JIC | 905.160.219 |

Azur™ 72C160

Azur™ range is the recommended line for the protective coatings market. The pump will transfer material without compromising your finish quality whether you are using single component paints, pre-mixed 2K, zinc-rich materials, and other types of coatings.

- High finishing protective coatings applications
- Designed to operate well in harsh and intensive environments
- Simple maintenance and comfortable to use

ADDICTED TO WORK



Configuration of the Azur™ 72C160 Airless protective coating pump

| | Sealing | | | Air regulator Fluid pressure | Suction | | | Output filter | Part Number |
|-----------------------|--------------------------|-----------------|---------|---------------------------------|----------------|-----------------|-------------------|------------------|----------------|
| | | Wall mounted | Trolley | | Hose 600 mm | Hose 1000 mm | Gravity hopper | | |
| BARE | #03 - UHMWPE +PTFE | - | - | - | - | - | - | - | 64350160130000 |
| W/M SUC 30L W/O FILT | | ✓ | - | ✓ | ✓ | - | - | - | 64350160131101 |
| W/M SUC 30L FILT SST | | ✓ | - | ✓ | ✓ | - | - | ✓ | 64350160131111 |
| W/M SUC 200L FILT SST | | ✓ | - | ✓ | - | ✓ | - | ✓ | 64350160135111 |
| MOB SUC 30L FILT SST | | - | ✓ | ✓ | ✓ | - | - | ✓ | 64350160131115 |
| MOB HOPPER FILT SST | | - | ✓ | ✓ | - | - | ✓ | ✓ | 64350160134115 |

Maintenance kits

| Description | Part number |
|---|-------------|
| Air motor seals kit | 146.371.040 |
| C160 Servicing kit (does not include seals) | 144.050.160 |
| C160 Seal kit - All purpose - #03 - UHMWPE+PTFE | 144.050.413 |
| C160 Seal kit - Abrasive - #04 - UHMWPE+Leather | 144.050.414 |
| C160 Seal kit - Warm - #05 - UHMWPE+PTFE G | 144.050.415 |

Accessories

| Description | Part number |
|--|--------------|
| Suction rod 1"1/4 L=600 mm | 149.597.200 |
| Suction rod 2" L=600 mm | 149.597.210 |
| Suction rod 1"1/4 L=1000 mm | 149.597.250 |
| Priming kit (without filter) for 3/8" hoses | 151.590.012 |
| SST Equipped filter | 155.581.456 |
| Heavy duty trolley | 151.590.700 |
| Gravity hopper 20L | 125.010.000 |
| Magma heater range (refer to page 66 for P/N detail) | 156.160.0XX |
| Kit 1 sprayer : SFlow™ 470 with Tip Top 18-13 (519) - 1.6M + 1.6M hoses + fittings | 151.590. 016 |
| 14 Seals PTFE G | 144.050.426 |
| 14 Seals PTFE | 144.050.425 |
| 14 Seals Leather | 144.050.424 |
| 14 Seals UHMWPE | 144.050.423 |

80C220

This paint pump is designed for rugged industrial applications & can feed two guns. It is recommended for long hose lengths.

- Perfect for high solids materials
- Built with minimal parts
- Lowest cost of ownership



Configuration of the 80C220 Airless paint pump

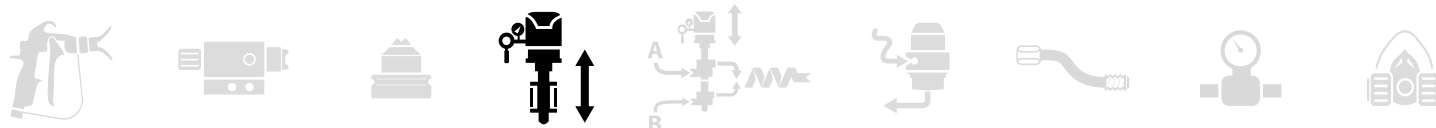
| Set-up | Suction rod (Ø25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|--------------|-------------------|-----------|------------------------------|--------------------|-------------|
| Cart-mounted | ✓ | - | ✓ | ✓ | 151.245.980 |

Maintenance kits

| Description | Part number |
|----------------------|-------------|
| Leather/PE seal kit | 106.284 |
| Air motor seal kit | 146.340.090 |
| Silencer kit | 146.320.091 |
| Distributor kit | 146.320.092 |
| Distributor seal kit | 146.320.093 |

Accessories

| Description | Part number |
|---|-------------|
| Suction rod 1" | 921.270.101 |
| Stainless steel flushing rod F18x125 | 049.596.000 |
| Cart | 208690 |
| Fluid filter | 155.582.050 |
| Adaptor Stainless steel F 3/4" JIC/M 1/2" JIC | 905.160.219 |



Flowmax® pumps

> The exclusive Flowmax® SuperLife Technology is available only with **SAMES KREMLIN**. Nothing of similar pressure and fluid output in the piston pump design outperforms the Flowmax® SuperLife technology.
Flowmax® pumps substantially outlast standard piston pumps using self-adjusting seals. In addition there is no lubricant cup, thus eliminating packings. In sum, this is a packing-free pump that performs quietly with minimal service. Nothing Compares !

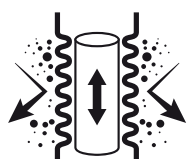
 Flowmax® Bellow Technology is a patented **SAMES KREMLIN** design that ensures balanced fluid delivery and long leak free operation.

> The Bellows eliminates the top packings and lubricant cups found on other double acting pumps. Virtually pulsation free with low friction seals giving a smooth motion.

The Flowmax® bellow technology keeps the air and the light out which is crucial when processing:

- Moisture sensitive Polyurethane hardener
- Waterbased paint
- UV curing paints

This pumps are also excellent for material recirculation applications with low pulsation characteristics



Flowmax® technology



**With this technology, no need to care if the lubricant cup is enough filled out with lubricant !
You can use it with eyes closed.**

Selection table

| FEATURES | BENEFITS | 34F60 | 40F50 | 40F100 | 40F260 | 65F260 |
|---|---|-------|-------|--------|--------|--------|
| Sealing ensured by a Superlife™ bellow seal | 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 | | | | | |
| | | | | | | |
| Large and smooth 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 | ✓ | ✓ | ✓ | ✓ | ✓ |
| External valves assembly | Easy maintenance | ✓ | - | - | - | - |
| floating piston | Fast inversions and very high efficiency | ✓ | - | - | - | - |
| Sprayed material | Waterbased | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Solvent base | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Primers | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Stains | - | | | | |
| | Direct Gloss / Metallic | - | | | | |
| | Top coats / High Gloss | ✓ | ✓ | ✓ | ✓ | ✓ |
| | UV products | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Moisture sensitive | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Two components | - | | | | |
| | Anti-corrosion / abrasives | | | | | |
| | Adhesives | | | | | |
| | Sealants | | | | | |
| | Greases | | | | | |
| | Wax | | | | | |

Selection table of Flowmax® pumps

| Pump name | 34F60 | 40F50 | 40F100 | 40F260 | 65F260 |
|--|------------|-------|--------|-------------|-------------|
| Construction | | | | | |
| Stainless Steel | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bellow | | | | | |
| Upper sealing | | | | | |
| Lower sealing | GT | GT | GT | GT | GT |
| Turbo version | - | - | - | - | - |
| Stainless Steel ball | ✓ | ✓ | ✓ | ✓ | ✓ |
| 31 6L ball | | ✓* | ✓* | | |
| Assembling | | | | | |
| Bare | - | ✓ | ✓ | - | - |
| Wall mounted | ✓ | ✓ | ✓ | ✓ | ✓ |
| Cart mounted | ✓ | ✓ | ✓ | ✓ | ✓ |
| Portable | - | - | - | - | - |
| Dimension (wall mounted pump without filter or suction rod) | | | | | |
| Height (mm) | 610 | 975 | 975 | 1120 | 1160 |
| Width (mm) | 410 | 400 | 400 | 300 | 485 |
| Depth (mm) | 250 | 280 | 280 | 510 | 575 |
| Weight (kg) | 26,5 | 37 | 42 | 110 | 120 |
| Characteristics | | | | | |
| Pressure ratio | 34/1 | 40/1 | 40/1 | 40/1 | 60/1 |
| Output per cycle (cc) | 60 | 50 | 100 | 260 | 260 |
| Number of cycle (per liter) | 17 | 20 | 10 | 3,846153846 | 3,846153846 |
| Output at 30 cycles/min (L) | 1,8 | 1,5 | 3 | 7,8 | 7,8 |
| Free flowrate (L/min) | 3,6 | 3 | 6 | 15,6 | 15,6 |
| Max fluid pressure (bar) | 204 | 240 | 240 | 240 | 390 |
| Max Paint temperature (°C) | 50 | 50 | 50 | 60 | 60 |
| Operating air pressure (bar) | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 |
| Air consumption at 30 cyc/min and 4 bar (m(3)/h) | 22,03 | 21,60 | 43,20 | 112,32 | 182,52 |
| Fittings | | | | | |
| Air inlet | F 3/4 BSP | | | | |
| Fluid Inlet | M 26 x 125 | | | M 38 x 150 | |
| Fluid Outlet (bare) | F 3/8 NPS | | | F 3/4 NPS | |
| Fluid Outlet (after filter) | M 1/2 JIC | | | M 3/4 JIC | |

✓ available

✓* optional



Flowmax® technology

34F60



The Flowmax® paint pump uses Flowmax® technology for total sealing, performance and extended lifetime for Airless® applications.

- **Unique Flowmax® Bellows technology**
- **Extended lifetime**
- **Easy maintenance**

LUB FREE PUMP ENSURES TOTAL SEALING AND RELIABILITY



Configuration of the 34F60 Flowmax® paint pump

| Set-up | Suction rod (Ø25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|--------------|-------------------|-----------|------------------------------|--------------------|-------------|
| Wall-mounted | ✓ | ✓ | ✓ | ✓ | 151.740.700 |
| 1 arm cart | ✓ | ✓ | ✓ | ✓ | 151.740.750 |

Maintenance kits

| Description | Part number |
|----------------------------------|-------------|
| Seal kit for 2000-2 air motor | 144.929.902 |
| Repair kit for 2000-2 air motor | 144.929.912 |
| Seal kit for F60 fluid section | 144.910.799 |
| Repair kit for F60 fluid section | 144.910.797 |
| Seal kit for external valves | 144.910.798 |

Accessories

| 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 |
| 1 arm cart | 051.730.110 |
| Fluid filter | 155.580.400 |
| Gravity hopper 6 liters | 151.140.250 |

40F50



This Flowmax® pump is recommended for feeding 2 guns.

- Flowmax® technology for zero maintenance
- Designed for moisture-sensitive and abrasive materials
- Extended lifetime

LUB FREE PUMP ENSURES TOTAL SEALING AND RELIABILITY



Configuration of the 40F50 Flowmax® paint pump

| Set-up | Suction rod (Ø25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|-----------------------------|-------------------|-----------|------------------------------|--------------------|-------------|
| Bare pump | - | - | - | - | 151.776.000 |
| Wall Mounted without filter | ✓ | - | ✓ | - | 151.776.100 |
| Wall mounted | ✓ | ✓ | ✓ | ✓ | 151.776.200 |
| 2 arm cart-mounted | ✓ | ✓ | ✓ | ✓ | 151.776.400 |

Maintenance kits

| Description | Part number |
|------------------------------------|-------------|
| Seal kit for 1000-4 air motor | 146.270.991 |
| Repair kit for 1000-4 air motor | 146.270.995 |
| Seal kit for F50 hydraulic section | 144.950.291 |
| Repair kit F50 hydraulic section | 144.950.292 |

Accessories

| 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 |
| 1 arm cart | 051.730.110 |
| Fluid filter | 155.580.400 |
| Gravity hopper 6 liters | 151.140.250 |

40F100



This Flowmax® pump is recommended for feeding 2 guns.

- Flowmax® technology for zero maintenance
- Designed for moisture-sensitive and abrasive materials
- Extended lifetime

LUB FREE PUMP ENSURES TOTAL SEALING AND RELIABILITY



Configuration of the 40F100 Flowmax® paint pump

| Set-up | Suction rod (Ø25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|--------------------|-------------------|-----------|------------------------------|--------------------|-------------|
| Bare pump | - | - | - | - | 151.786.000 |
| Wall mounted | ✓ | - | ✓ | - | 151.786.100 |
| Wall mounted | ✓ | ✓ | ✓ | ✓ | 151.786.200 |
| 2 arm cart-mounted | ✓ | ✓ | ✓ | ✓ | 151.786.400 |

Maintenance kits

| Description | Part number |
|-------------------------------------|-------------|
| Seal kit for 2000-4 air motor | 146.270.990 |
| Repair kit for 2000-4 air motor | 146.270.996 |
| Seal kit for F100 hydraulic section | 144.960.291 |
| Repair kit F100 hydraulic section | 144.960.292 |

Accessories

| 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 |
| 1 arm cart | 051.730.110 |
| Fluid filter | 155.580.400 |
| Gravity hopper 6 liters | 151.140.250 |

40F260



This Flowmax® pump is recommended for anti-corrosion applications.

- Flowmax® Bellows technology for zero maintenance
- Designed for moisture-sensitive & abrasive materials
- Extended lifetime

HIGH OUTPUT, CARTRIDGE FREE BELLOW PUMP FOR CIRCULATING AND AUTOMATIC MACHINES



WWW



Configuration of the 40F260 Flowmax® paint pump

| Set-up | Upper sealing | Lower sealing | Suction rod (Ø25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|--------------|---------------|---------------|-------------------|-----------|------------------------------|--------------------|-------------|
| Wall mounted | GT | GT | - | - | ✓ | - | 151.871.500 |
| Wall mounted | GT | GT | ✓ | - | ✓ | ✓ | 151.871.600 |
| Wall mounted | GT | GT | - | - | ✓ | ✓ | 151.871.800 |
| Wall mounted | PU | PU | - | - | ✓ | ✓ | 151.871.660 |
| Cart-mounted | GT | GT | ✓ | - | ✓ | ✓ | 151.871.700 |

Maintenance kits

| Description | Part number |
|--|-------------|
| Seal kit for 5000-4 air motor | 146.280.991 |
| Repair kit for 5000-4 air motor | 146.280.996 |
| GT Seal kit for F460 hydraulic section | 144.020.690 |
| PU Seal kit for F460 hydraulic section | 144.020.691 |
| GT Repair kit F460 hydraulic section | 144.020.695 |
| PU Repair kit F460 hydraulic section | 144.020.692 |

Accessories

| 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 flushing rod F18 x 125 | 049.596.000 |
| Fluid filter | 155.581.400 |

65F260



This Flowmax® pump is recommended for anti-corrosion applications.

- Flowmax® Bellows technology for zero maintenance
- Designed for moisture-sensitive & abrasive materials
- Extended lifetime

HIGH OUTPUT, CARTRIDGE FREE BELLOW PUMP FOR CIRCULATING AND AUTOMATIC MACHINES



Configuration of the 65F260 Flowmax® paint pump

| Set-up | Suction rod (Ø25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|--------------|-------------------|-----------|------------------------------|--------------------|-------------|
| Wall mounted | ✓ | - | ✓ | ✓ | 151.881.600 |
| Cart-mounted | ✓ | - | ✓ | ✓ | 151.881.700 |

Maintenance kits

| Description | Part number |
|--|-------------|
| Seal kit for 8000-4 air motor | 146.280.991 |
| Repair kit for 8000-4 air motor | 146.280.996 |
| GT Seal kit for F460 hydraulic section | 144.020.690 |
| PU Seal kit for F460 hydraulic section | 144.020.691 |
| GT Repair kit F460 hydraulic section | 144.020.695 |
| PU Repair kit F460 hydraulic section | 144.020.692 |

Accessories

| 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 flushing rod F18 x 125 | 049.596.000 |
| Fluid filter | 155.581.400 |

Notes

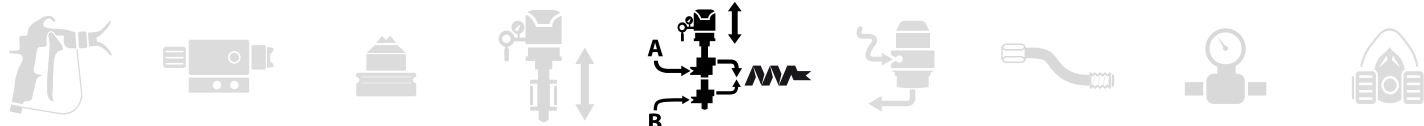
Spray guns

Pumps

Machines & Controllers

Accessories

General informations

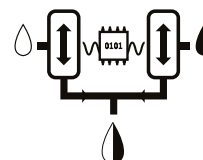


Mechatronic & Electronic dosing

SAMES KREMLIN offers a complete range of 2K liquid systems for material dosing. Their uses are either mechatronic or electronic dosing machine .
Our systems integrate many technologies, here are the main ones:



Injectmix technology







PFE technology

Injectmix technology allows injecting a custom catalyst volume into a continuous flow of base - directly in a high performance mixer, thus guaranteeing the mixing quality. The two materials are then instantly vehicles in an inline static mixer without intermediate pre-mixing chamber.

Pulse-Free Electronic Control (PFE) acts on unique pump changeover technology to ensure consistent metering. Liquid mixing technology PFE technology exist on the reverse pump in hidden time to ensure consistent metering.

- EASY to flush technology: limiting maintenance
- HIGH ACCURATE mixing
- DIFFERENT INJECTOR size: optimal hardener injection volume
- PRECISE METERING because the pumps never change over during an injection cycle.
- PULSATION FREE You will never have a spray pattern variation during spraying
- DOSING ACCURACY of $\pm 1\%$

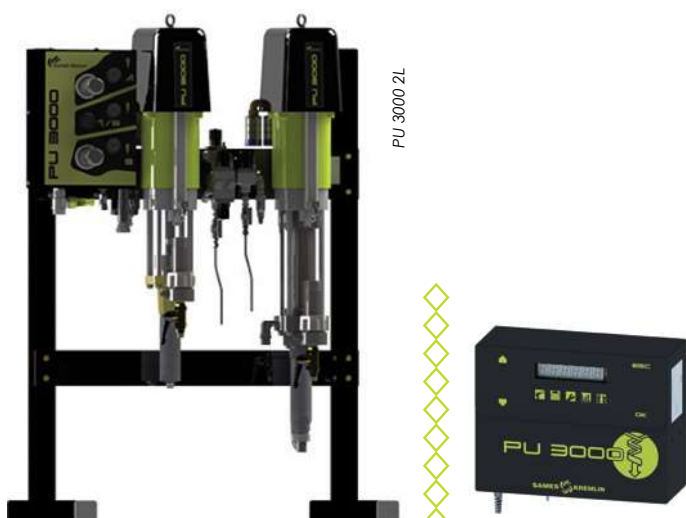
| Specifications | |  |  |  |  |
|---------------------------------|--------------|---|---|--|---|
| Machine name | | PU3000 | Cyclomix™ Micro | Cyclomix™ Multi | Cyclomix™ II & Expert |
| Dosing type | | Mechatronic | Electronical | | |
| Ratio | | Adjustable | | | |
| Injectmix technology | | ✓ | - | | |
| PFE technology | | ✓ | ✓ | | |
| | | Dimension | | | |
| Height (cm) | | 28.6 (control cabinet) - 130-150 (dosing unit) | 17.3 (control cabinet) - 40 (dosing unit) | 60 (control cabinet) - 77 (mixing unit) | 60 (control cabinet) - 91 (mixing unit 2K) |
| Width (cm) | | 36.7 (control cabinet) - 86 (dosing unit) | 36.6 (control cabinet) - 40.7 (dosing unit) | 60 (control cabinet) - 60 (mixing unit) | 60 (control cabinet) - 89 (mixing unit 2K) |
| Depth (cm) | | 14.3 (control cabinet) - 70 (dosing unit) | 11.1 (control cabinet) - 30 (dosing unit) | 40 (control cabinet) - 77 (mixing unit) | 40 (control cabinet) - 68 (mixing unit 2K) |
| Weight (kg) | | - | 25 | 70 | 48 (2K) |
| | | Characteristics | | | |
| Electrical Power | | 115 / 230V - 75W | 115 / 230V - 75W | 115 / 230 V - 75 W | 115 / 230V - 75W |
| Trigger air pressure (bar mini) | | 6 | 4 | 4 | 4 |
| Product pressure (bar) | | 2 - 320 | 2 - 175 | 2 - 200 | 5 - 200 |
| Wetted parts | | Stainless steel and PeHD | Stainless steel and PEHD 316L stainless steel on PH version catalyst side | Stainless steel and PeHD | Stainless steel and PeHD (option 316L) |
| Mixing ratio | | 1/1 to 20/1 | single component and 0.6/1 to 20/1 | 0.6/1 to 20/1 (160% to 5%) | 0.6/ at 30/1 |
| Mixing accuracy | | +/- 1% | +/- 1% | +/- 1% | +/- 1% |
| Number of Products | | 1 | 1 - 3 | 7* - 20* | 21* |
| Mixed fluid output (cc/min) | | PU 3000 2I: up to 2000 PU 3000 4I: up to 4000 | 100 - 2000 | 100 - 2000 | 50 - 6000 |
| Fluid viscosity | | 30 - 8000 cps | 30 - 5000 cps | 30 - 5000 cps | 30 - 5000 cps |
| Fittings | Air inlet | F 3/4" BSP | - | F 1/4" BSP | - |
| | Air outlet | F 1/4" BSP | - | F 1/4" BSP | - |
| | Fluid Inlet | - | M 1/2" JIC | M 1/2" JIC | - |
| | Fluid Outlet | F 3/4" JIC | M 1/2" JIC | F 1/4" BSP | - |

* This value is interdependent on the number of catalysts

Electronic mixing and dosing paint pump

PU 3000 AIRLESS®

Electronic dosing & mixing equipment, includes pumping, metering & electronic functions in low and medium pressure.
Available in 2 versions: 2 Liters and 4 Liters.



- User friendly
- Material mixing quality
- Security of application



explosive area

non explosive area



PLUG AND SPRAY SOLUTION PUMPING AND MIXING 2 COMPONENTS WITH ADJUSTABLE RATIO



www

| FEATURES | BENEFITS |
|---|---|
| Plug & Spray | Quick start-up |
| SAMES KREMLIN patent : Free Pulse Electronic Control (FPE) | Constant fluid flowrate |
| Innovative control system of pump change-over | Unsurpassed +/- 1 % mixing accuracy and +/- 1 % repeatability |
| Direct injection in the high performance static mixer | Perfect mixing |
| Recording of fluid consumptions and VOC | Fluid and solvent consumptions stored in memory |
| Possibility to print records | |
| Automatic component management : base, catalyst and solvent | User-friendly and easy programming for the operator |
| Automatic flushing and material generation | |
| 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 |
| | Ideal to work with moisture-sensitive catalysts |
| Variable ratio from 5 to 160% | Suitable for use on a wide range of markets |

Configuration of the PU 3000 AIRLESS® dosing paint pump

| Description | Fluid volume per cycle (cm3) | Pressure Ratio | Hardener section | Part number |
|-----------------------------|------------------------------|----------------|------------------|-------------|
| PU3000 2L AIRLESS | 124 | 53/1 | C-Cup or Cup lub | 155.680.102 |
| PU3000 4L AIRLESS | 227 | | C-Cup or Cup lub | 155.680.150 |
| PU3000 4L AIRLESS (Flowmax) | 260 | 40/1 | Flowmax® | 155.680.175 |

Option

| Description | Part number |
|--------------------------------|-------------|
| Spray booth glass mounting kit | 155.660.340 |

Flushing pump

| Description | Suction rod | Purge rod | Air regulator fluid pressure | Part number |
|--------------------------------|-------------|-----------|------------------------------|-------------|
| 30-C25 flushing pump - PU 3000 | • (Ø 16) | - | - | 151.145.090 |

Seal kit

| Description | Seal mix | Part number |
|-------------------------|----------|-------------|
| Seal kit for AIRLESS 2L | PE/PTFEG | 107-282 |
| Seal kit for AIRLESS 4L | | 107-366 |

CYCLOMIX™ Micro

The Plural Component Electronic Mixing & Dosing System allows the user to dose, mix & continuously deliver two-component paints or adhesives.



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

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

ENTRY LEVEL DOSING MACHINE UP TO 3 COLORS MANAGEMENT



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

Configuration of the CYCLOMIX™ Micro electronic dosing system

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

Options

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

Electronic mixing and dosing paint pump

CYCLOMIX™ Multi

The Cyclomix™ Multi allows the user to dose, mix & continuously deliver two-component paints or adhesives.



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

PROFESSIONAL DOSING MACHINE UP TO 20 COLORS



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



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

Configuration of the CYCLOMIX™ Multi electronic dosing system

| Description | Number of bases | Number of catalysts | Part number |
|---|-----------------|---------------------|-------------|
| CYCLOMIX™ Multi | 3 | 1 | 155.660.813 |
| | 5 | | 155.660.815 |
| | 7 | | 155.660.817 |
| | 3 | 2 | 155.660.823 |
| | 5 | | 155.660.825 |
| | 3 | | 155.660.833 |
| CYCLOMIX™ Multi Configurable | up to 20 | up to 10 | Contact us |
| CYCLOMIX™ Multi PH (without mixer - see options) | 3 | 1 | 155.660.513 |
| | 5 | | 155.660.515 |
| | 7 | | 155.660.517 |

Option

| Description | Part number |
|------------------------|-------------|
| Autowash | 155.660.300 |
| Static mixer 1 m long. | 155.660.955 |

CYCLOMIX™ II & Expert

The Cyclomix™ II & Expert are an innovative, industrial solution that are configured to meet the needs of the customer.



non explosive area



explosive area



Supplied without pumps or guns to be ordered separately

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

PREMIUM DOSING MACHINE UP TO 3 COMPONENTS



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

Configuration of the CYCLOMIX™ II & Expert electronic dosing system

| Description | Part number |
|-----------------------|-------------|
| CYCLOMIX™ II & Expert | Contact us |

Notes

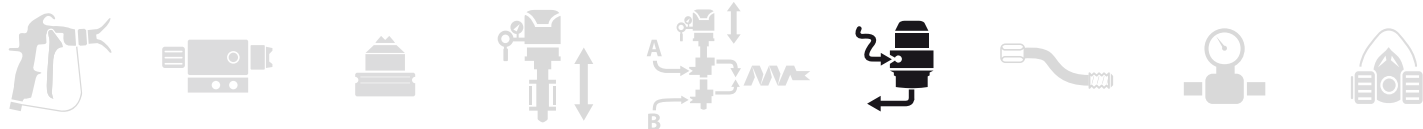
Spray guns

Pumps

Machines & Controllers

Accessories

General informations



Fluid regulators

Regulation technology

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

REMOTE control

FAST response

HIGH precision

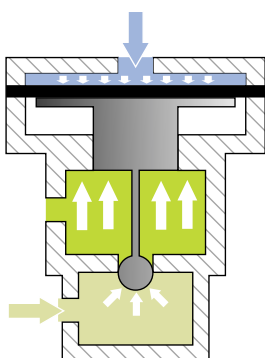
Fluid pressure regulators are used to reduce and balance the fluid pressure delivered from a pump. Regulators are designed to deliver constant fluid pressure based upon the inputs or setting of the regulator. Fluid regulators should be placed as close as possible to the point of application.

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

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

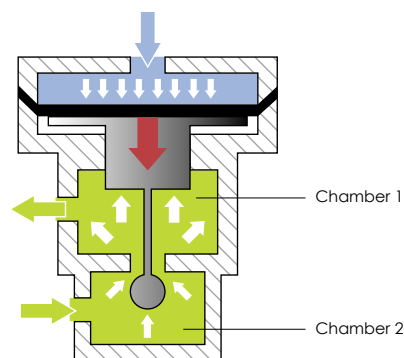
Specifications

| | | Pressure regulator | | | Regsmart range | Regmaster range |
|----------------|-----------------------|--------------------|------------|-------------------------|--------------------|--------------------|
| | | Manual control | Piloted | Piloted - back pressure | Piloted | |
| Pressure range | Inlet | 400 | 400 | 230 | See dedicated page | See dedicated page |
| | Outlet (upon version) | 20 - 150 | 20 - 230 | 20 - 230 | | |
| Width (cm) | | 9,5 | 14,8 | 14,8 | | |
| Height (cm) | | 23,5 | 16 | 16 | | |
| Fittings | Air inlet | - | F 1/4" BSP | F 1/4" BSP | | |
| | Fluid Inlet | F 3/8" BSP | F 3/8" BSP | F 3/8" BSP | | |
| | Fluid Outlet | F 3/8" BSP | F 3/8" BSP | F 3/8" BSP | | |



FLUID FLOW

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



PRESSURE DROP

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

Fluid regulators

Pressure regulator manual & piloted control



#1



#2 & 3



Pressure regulator manual & piloted control

| | Description | Inlet pressure | Regulated pressure | Part Number |
|----|-----------------------|----------------|--------------------|-------------|
| #1 | Manual | 400B | 20/150B | 1027900111 |
| #2 | Piloted | 400B | 25-230B | 1027850111 |
| #3 | Back pressure piloted | 230B | 25-230B | 103360 |

Seal kits

| | Description | Part Number |
|--------|---|-------------|
| #1 | Mix of FFKM seals | 102,887 |
| #2 & 3 | Mix of FFKM seals + diaphragm | 107,196 |
| #3 | Mix of Viton, EPDM and PTFE seals + diaphragm | 107,361 |

High pressure gauges

Metal pressure gauge with glass and glycerin lens ; totally impact and solvent resistant.

| Description | Pressure range (bar) | Fitting | Internal diameter (mm) | Part number |
|---|----------------------|--------------------------|------------------------|-------------|
| Diaphragm high pressure gauge (Y mounted) | 0 - 250 | M 3/8" NPS F 3/8" NPS | 50 | 155.271.790 |
| Pressure gauge side inlet | 0 - 120 | M 1/4 G | 63 | 910.010.802 |
| | 0 - 400 | | | 910.010.801 |

REGSMART Regulators



A regulator is needed when you want to control fluid pressure/flow rate, change fluid pressure to different values in a short time, dampen out pulsation on pump, change over and help prevent "snake head" effect on gun opening.

Specially designed for medium viscosity materials, RegSMART diaphragm design is ideal for moisture-sensitive and water-based materials. The modular design enables you to control over a wide range of flowrates.

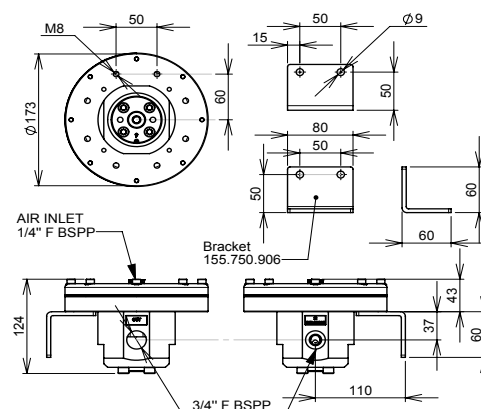
RegSMART regulators incorporates a cartridge design, reducing dead zones, ensuring minimum downtimes during maintenance.



Technical data

| | REGSMART REGULATOR | REGSMART STAINLESS STEEL |
|-------------------------------------|--|-----------------------------|
| Inlet pressure (bar Max) | 400 | |
| Outlet pressure range (min/max bar) | 25 / 275 | |
| Air pressure (bar max) | 6 | |
| Air inlet thread | 1/4" F BSPP | |
| Weight (Lbs) | 4.2 kg (9.25) | 6.2 kg (13.66) |
| Max working temperature (°C) | 80 | |
| Material Inlet & outlet | 3/4" F BSPP | |
| Wetted parts | Aluminum, PTFE, FFKM | Stainless steel, PTFE, FFKM |
| Average output (l/mn)* | diameter 6 - 0.9 l/mn diameter 8 - 3 l/mn diameter 12 - 9 l/mn | |

* measured at free flowrate with product viscosity of 15.000 cPs.

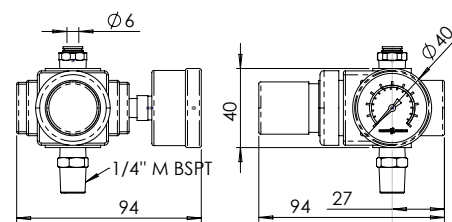


REGSMART Part number

| Designation | Material | Part Number |
|---|-----------------|-------------|
| REGSMART - 275 bar - ball 6 (cold application) | Aluminum | 155.750.000 |
| REGSMART - 275 bar - ball 8 (cold application) | Aluminum | 155.750.100 |
| REGSMART - 275 bar - ball 12 (cold application) | Aluminum | 155.750.200 |
| REGSMART - 275 bar - ball 6 (cold application) | Stainless steel | 155.751.000 |
| REGSMART - 275 bar - ball 8 (cold application) | Stainless steel | 155.751.100 |
| REGSMART - 275 bar - ball 12 (cold application) | Stainless steel | 155.751.200 |

Accessories

| Designation | Description | Part number |
|-------------------|---|-------------|
| Regsmart support | Bracket and fixing screws | 155750906 |
| Air regulator kit | Air regulator with assembly accessories and pressure gauge - 0.3 to 7 bar | 155750908 |



REGSMART Regulators

A regulator is needed when you want to control fluid pressure/flow rate, change fluid pressure to different values in a short time, dampen out pulsation on pump, change over and help prevent "snake head" effect on gun opening.

The modular design enables you to control over a wide range of pressures. Our regulators are well known for their high precision and repeatability especially in automated applications.



Technical data

| | REGMASTER 40 | REGMASTER 80 | REGMASTER 120 | REGMASTER 160 | REGMASTER 200 |
|-------------------------------------|--------------|----------------|---------------|----------------|-------------------------------------|
| Number of plates | 1 | 2 | 3 | 4 | 5 |
| Inlet pressure (bar Max) | 400 | 400 | 400 | 400 | 400 |
| Outlet pressure range (min/max bar) | 5 / 40 | 7 / 80 | 12 / 120 | 15 / 160 | 20 / 200 |
| Air pressure (bar max) | 6 | 6 | 6 | 6 | 6 |
| Air inlet thread | 1/4" F BSPP | 1/4" F BSPP | 1/4" F BSPP | 1/4" F BSPP | 1/4" F BSPP |
| Material inlet & outlet | 3/4" F BSPP | 3/4" F BSPP | 3/4" F BSPP | 3/4" F BSPP | 3/4" F BSPP |
| Max working temperature (°C) | 80 | 80 | 80 | 80 | 80 |
| Wetted parts | Aluminum | Aluminum | Aluminum | Aluminum | Aluminum/stainless steel on request |
| Height (mm) | 184 | 212 | 240 | 263 | 296 |
| Diameter (mm) | 150 | 150 | 150 | 150 | 150 |
| Weight (Lbs) | 6 kg (13,22) | 6,5 kg (14,33) | 7 kg (15,43) | 7,5 kg (16,53) | 8 kg (17,63) |

REGSMART Part number

The diffusor allows to reduce the needle wear

| Designation | Option | Part Number |
|--|---------------|-------------|
| REGMASTER (cold application) - 200 b 5 PLT | with diffusor | 1061250251 |
| REGMASTER (cold application) - 400/40 b 1 PLT | - | 1061250111 |
| REGMASTER (cold application) - 400/80 b 2 PLT | - | 1061250121 |
| REGMASTER (cold application) - 400/120 b 3 PLT | - | 1061250131 |
| REGMASTER (cold application) - 400/160 b 4 PLT | - | 1061250141 |
| REGMASTER (cold application) - 400/200 b 5 PLT | - | 1061250151 |
| REGMASTER (cold application) - 400/40 b 1 PLT | with diffusor | 1061250211 |
| REGMASTER (cold application) - 400/80 b 2 PLT | with diffusor | 1061250221 |
| REGMASTER (cold application) - 400/120 b 3 PLT | with diffusor | 1061250231 |
| REGMASTER (cold application) - 400/160 b 4 PLT | with diffusor | 1061250241 |

Heater

Magma 500



WARM UP PRODUCTIVITY

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**



| 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 used as one pass (without recirculation) |
| Possibility of heating atomizing air | Increase finishing quality and regrease drying times |
| ATEX Compliant | Can be used in hazardous atmosphere |
| Weather resistant | Always efficient even in high humidity environments |

Specifications

| Heater name | MAGMA 500 ID9 | | | MAGMA 500 ID14 | | | |
|----------------------------|--|-----|-----|---------------------|-----|-----|---------|
| Maximum fluid pressure | 500 bar (7 250 psi) | | | | | | |
| Fluid passage volume | 0.225 L (0.0594 gal) | | | 0.390 L (0.130 gal) | | | |
| Internal diameter | 9 mm (0.35") | | | 14 mm (0.55") | | | |
| Fluid passage length | 354 cm (140") | | | 253 cm (100") | | | |
| Voltage range (V) | 115 | 230 | 400 | 115 | 230 | 400 | 440 (1) |
| Maximum fluid temperature | 90 °C (194 °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) | | | | | | |

(1): Need an external control unit with a switching element for 440V

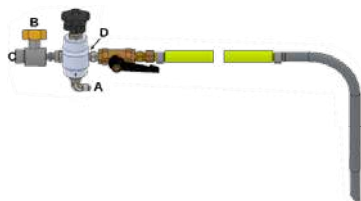
Magma 500

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 | Phase | Part number |
|------------------------------|----------------|------------------------------|--------------|-----------|----------|---------------------|-----------|-------|-------------|
| ID14 HV 230V 3500W M3/4 JIC | M 3/4 JIC | 1,4 | 230 | 3500 | SST | 500 | 15-90 | 1 | 156.160.010 |
| ID14 HV 115V 1800W M3/4 JIC | | | 115 | 1800 | | | 15-90 | 1 | 156.160.020 |
| ID 14 HV 400V 3800W M3/4 JIC | | | 400 | 3800 | | | 15-90 | 3 | 156.160.030 |
| ID9 230V 3500W M1/2 JIC | M 1/2 JIC | 0,9 | 230 | 3500 | | | 15-90 | 1 | 156.160.040 |
| ID9 115V 1800W M1/2 JIC | | | 115 | 1800 | | | 15-90 | 1 | 156.160.050 |
| ID9 400V 3800W M1/2 JIC | | | 400 | 3800 | | | 15-90 | 3 | 156.160.060 |
| ID14 HV 440V 3500W M3/4 JIC | M 3/4 JIC | 1,4 | 440 | 3500 | | | 15-90 | 1 | 156.160.070 |

Accessories

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



Fluid line - Circulation valve

A circulation valve allows paint recirculation at the pump bottom (piston pump) and permits to set the perfect output for material circulation.
Max. fluid pressure = 240 bar

Configuration of Circulation valve

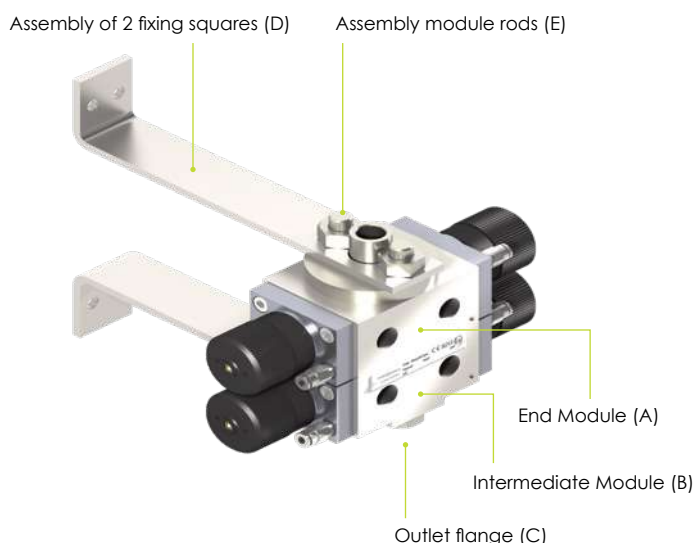
| Version | Material | A. Inlet fitting | Outlet fitting | | D. Purge | Flushing valve | Flushing rod M 18x125 | Part Number |
|------------------|--------------|------------------|----------------|----------------|-----------|----------------|-----------------------|-------------|
| | | | B. Pump intake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

Maintenance

| Description | Part number |
|---|-------------|
| Maintenance kit for recirculation valve | 049.220.450 |

Fluid line

CTM Color Change Valves



CTM are designed for a rapid color change.

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

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

| Nb of material up to | Number of element to order | | | | |
|----------------------|----------------------------|--------------------------|-------------------|------------------------|-----------------------|
| | (A) End module | (B) Intermediate modules | (C) Outlet flange | (D) Fixing square kits | (E) Rod assembly size |
| 2 | 1 | - | 1 | 1 | for 1 module |
| 4 | | 1 | | | for 2 modules |
| 6 | | 2 | | | for 3 modules |
| 8 | | 3 | | | for 4 modules |
| 10 | | 4 | | | for 5 modules |

CTM valve specifications

| Description | CTM |
|--------------------|------------------|
| 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 | | Max. pressure (bar) | Part number |
|-------------------|---|---------------------|-------------|
| Modules | End module (inlet) | 120 | 155.535.300 |
| | End module (inlet) - stainless steel (316 L) | 200 | 155.535.350 |
| | Intermediate module | 120 | 155.536.200 |
| | Intermediate module - stainless steel (316 L) | 200 | 155.535.400 |
| | Outlet flange | | 155.535.450 |
| | Outlet flange - stainless steel (316 L) | | 155.536.320 |
| | Fixing square kit | | 155.535.500 |
| Description | | Nb. of materials | Part number |
| Rod assembly size | For 1 module (1 end + 1 flange) | 2 | 155.535.700 |
| | For 2 modules (1 end + 1 intermediate + 1 flange) | 4 | 155.535.610 |
| | For 3 modules (1 end + 2 intermediate + 1 flange) | 6 | 155.535.620 |
| | For 4 modules (1 end + 3 intermediate + 1 flange) | 8 | 155.535.630 |
| | For 5 modules (1 end + 4 intermediate + 1 flange) | 10 | 155.535.640 |

Filters

Bare fluid filters



| Description | Maximum fluid pressure (bar) | Average output | Fittings | | | Part number |
|--|------------------------------|----------------|---------------|---------------|--------------------|-------------|
| | | | Inlet | Outlet | Purge | |
| 3/8" stainless steel filter - high pressure | 360 | 4 | 1x F 3/8" NPT | 2x F 3/8" NPT | 1x F 1/4" NPT base | 155.580.200 |
| 3/4" stainless steel filter - high pressure | 360 | 6 | 1x F 3/4" NPS | 1x F 3/4" NPS | 1x F 3/8" NPS | 155.581.450 |
| 1" double screen stainless steel - high pressure | 480 | 9 | 1x F 1" NPS | 1x F 1" NPS | 1x F 3/8" NPS | 155.582.000 |

Accessories for filters

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

Equipped filters

Equipped with inlet/outlet Fittings and drain valve



| Description | Maximum fluid pressure (bar) | Screen | Fittings | | | Part number |
|---|------------------------------|---------|------------|---|----------|-------------|
| | | | Inlet | Outlet | Purge | |
| Stainless steel accu 3/8" filter - medium pressure | 240 | 6 | F 3/8" NPT | M 1/2" JIC | M 18x125 | 155.580.300 |
| Stainless steel accu 3/8" filter - medium pressure | 250 | | F 1/2" JIC | | | 155.580.600 |
| Stainless steel accu 3/8" filter - medium pressure | 240 | 12 | F 3/8" NPT | M 3/4" JIC | M 18x125 | 155.580.400 |
| Stainless steel accu 3/4" filter - High pressure | 360 | 12 | M 3/4" BSP | | | 155.581.400 |
| Stainless steel accu 3/4" filter - High pressure | 360 | 12 | F 1/2" JIC | M 1/2" JIC | M 18x125 | 155.581.410 |
| Stainless steel filter 1" - High pressure double screen | 480 | 15 (x2) | F 1" G | F 1" G | F 3/8" G | 155.582.050 |
| Stainless steel accu 3/4" filter - High pressure | 500 | 15 | M 3/4" BSP | 1st = M3/8 NPSM 2nd = plug (F 3/4" BSP) | M 18x125 | 155.581.456 |

Priming kit

A priming kit is used for easy pump priming or flushing when you are not using an equipped filter on the outlet of the pump



| Designation | Max fluid pressure (bar) | Inlet | Outlet | Drain rod | Part Number |
|---------------------|--------------------------|-----------|------------|-----------|-------------|
| 1/2 JIC priming kit | 400B | F 1/2 JIC | M 1/2 JIC | - | 155580700 |
| 3/4 JIC priming kit | 400B | F 3/4 JIC | M 3/4 JIC | - | 155581700 |
| Azur priming kit | 500B | M 3/4" | M 3/8 NPSM | - | 151590012 |

Screens for product filter



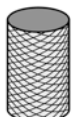
| Filter number | Filtration size | | Nozzle size | Quantity | Part number |
|---------------|-----------------|------|-------------|----------|-------------|
| | Micron | Mesh | | | |
| 1 | 40 | 325 | 3 | 1 | 000.161.101 |
| 2 | 74 | 200 | 4 | | 000.161.102 |
| 3 | 90 | 170 | | | 000.161.103 |
| 4 | 100 | 140 | | | 000.161.104 |
| | | | | 25 | 100.161.104 |
| 6 | 168 | 85 | 6 | 1 | 000.161.106 |
| | | | | 25 | 100.161.106 |
| 8 | 210 | 70 | 09 to 14 | 1 | 000.161.108 |
| | | | | 25 | 100.161.108 |
| 12 | 280 | 55 | 20 | 1 | 000.161.112 |
| | | | | 25 | 100.161.112 |
| 15 | 360 | 45 | 30 to 45 | 1 | 000.161.115 |
| 20 | 510 | 30 | =<68 | | 000.161.020 |
| 30 | 750 | 20 | | | 000.161.030 |

Inline fluid filters 200 bar

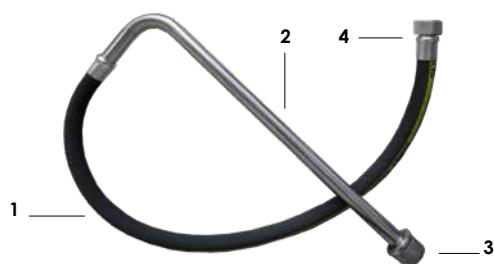


| Description | Maximum fluid pressure (bar) | Screen | Output (l/mn) | Fittings | | Part number |
|--|------------------------------|--------|---------------|------------|------------|-------------|
| | | | | Inlet | Outlet | |
| Medium pressure stainless steel filter | 200 | 6 | 2 | F 1/4 NPS | F 1/4 NPS | 055.600.000 |
| Airmix filter MM 1/2 JIC | 200 | 6 | 2 | M 1/2" JIC | M 1/2" JIC | 155.010.000 |
| Airmix filter MF 1/2 JIC | 200 | 6 | 2 | M 1/2" JIC | F 1/2" JIC | 155.010.100 |

Screen for inline fluid filter



| Stainless steel screen for filter | Size (μ) | Quantity | Part number |
|-----------------------------------|----------|----------|-------------|
| N° 4 | 100 | 5 | 129.609.907 |
| N° 6 | 168 | 5 | 129.609.908 |
| N° 12 | 280 | 5 | 129.609.909 |



Suction and flushing rod

A suction rod will transfer the paint from the drum to the pump inlet

Please refer to your pump information to know which suction rod will fit

NOTA : A suction rod will include a strainer and a flushing rod not

Configuration for suction and flushing rod

| Hose (1) | | | | Tube (2) | | | Strainer (3) | Part Number | Shape | Suction rod | Flushing rod |
|----------|---------------|----------|------------|-------------|----------------------------|----------|--------------|----------------------------|----------------------------|-------------|--------------|
| ID | Length (mm/") | Material | Thread (4) | ID (mm/") | Height (mm/") | Material | Material | | | | |
| 1/4" | 800 (31.5) | PEBD | F 18 x 125 | 6 (0.24) | 280 (11) | SST | SST | 051.665.620 | Straight tube | ✓ | |
| | 820 (32) | | | | 230 (9) | | | 151.665.640 | Straight tube | | |
| 3/8" | 1000 (39) | | F 26x125 | | 440 (17) | | | 149.596.080 | Elbow tube | | |
| - | - | | | | 290 (11.4) | | | 149.596.040 | Straight tube without hose | | |
| 3/8" | 1000 (39) | PEBD | F 18 x 125 | 16 (0.63) | 570 (22) | | - | 049.596.000 | Elbow tube | | ✓ |
| | | | - | | | | 049.596.200 | Elbow tube + Elbow fitting | | | |
| | | | Polyamide | | | | 049.596.210 | Elbow tube + Elbow fitting | ✓ | | |
| | | | | | | | 049.596.020 | Elbow tube | | | |
| | | | | | | | SST | 149.596.050 | | | Elbow tube |
| 3/4" | 1500 (59) | | F 18 x 125 | - | - | - | - | 149.596.250 | Straight hose without tube | | ✓ |
| | 1000 (39) | | F 26x125 | 25 (1) | 570 (22) | SST | SST | 149.596.150 | Elbow tube | ✓ | |
| | 1500 (59) | | | | 1000 (39) | | | 149.596.160 | Elbow tube | | |
| | F 38 x 150 | | 570 (22) | | 149.597.100 | | | Elbow tube | | | |
| 1"1/10 | 1000 (39) | F 1" | 570 (22) | | 921.270.101 | | | Elbow tube | | | |
| | 1500 (59) | F 1"1/4 | 28 (1.1) | 600 (23.6) | 149.597.200 | | | Elbow tube + Elbow fitting | | | |
| | | | 1000 (39) | 149.597.250 | Elbow tube + Elbow fitting | | | | | | |

(1): Elbow fitting

Strainer for suction rods



| Pump | Height (mm) | External diameter (mm) | Material | filtration size | | Part number |
|---|-------------|------------------------|-----------------|-----------------|------|-------------|
| | | | | Micron | MESH | |
| 10C18 | 60 | 40 | Polyamide | 300 | 50 | 051.531.600 |
| 10C18 | 34 | 28 | Stainless steel | 1000 | 15 | 151.665.645 |
| 15C25 & 30C25 (ø16) | 32,5 | 28 | Stainless steel | 1000 | 15 | 149.596.052 |
| 30C25, 15C50, 10C50, 17F60, 20C50, 20F50, 34F60, 40C50, 40F50, 08C240, 08F240, 16C240, 16F240 (ø25) | 40 | 48 | Stainless steel | 1000 | 15 | 149.596.152 |
| 40C260, 40F260, 65C260, 65F260, 20.25 (OLD GENERATION) | 112 | 66 | Polyamide | 1000 | 15 | 149.591.400 |
| Azur™ 52C225 & 72C160 | 45 | 60 | Stainless steel | 2000 | 10 | 149.596.153 |

Product hoses for suction rods

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

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

Gravity hopper



| Compatible with | Capacity | Thread | Par number |
|---|----------|------------|-------------|
| #1 15C25, 15C50, 30C25, 35C50, 40C50 & 40C100 | 6L | F 26 x 125 | 151.140.230 |
| #2 34F60, 40F50, 40F100 | | | 151.140.250 |
| #3 Azur™ 52C225 & 72C160 | 20L | F 1" 1/2 | 125.010.000 |

Cyclix™ 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 |

Cyclix™ agitators

Configuration of CYCLIX™ for 20 - 40 l drums

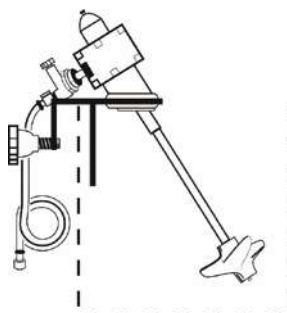
| Description | Elevator height (mm) | Agitator rod length (mm) | Paddle diameter (mm) | Cover diameter (mm) | Part number |
|-----------------------------|-------------------------|--------------------------|----------------------|---------------------|-------------|
| Elevator for 20 -40 l drums | 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 |

Fluid Hoses



Those hoses should be chosen according to the maximum pressure delivered by your pump, the length and the diameter used in the application.

Polyamide Fluid hoses configuration with JIC fittings

Configuration with JIC fittings - Part Number according to length with fittings per meter.

Those hose insure constant conductivity between the spraygun and the pump and are compatible with most coatings.

| Item | Part Number | | | | | | | | | | |
|-------------------------------------|----------------|-------------|----------------|---------------|----------------|-------------|-------------|----------------|-------------|----------------|---------------|
| Conductive | YES | | | | | | | | | | |
| Color | GREEN | | | | BLACK | | | | | | |
| Hose design | Single Braided | | | | Double Braided | | | Single Braided | | Double Braided | |
| Internal diameter mm | 3.2 (1/8") | 4.8 (3/16") | 6.35 (1/4") | 4.8 (3/16") | 6.35 (1/4") | | | 9.52 (3/8") | 12.7 (1/2") | 9.52 (3/8") | 12.7 (1/2") |
| Max. operating pressure (bar (psi)) | 240 (3 480.9) | | | 325 (4 713.7) | 300 (4 351.1) | 450 (6 527) | 500 (7 252) | 225 (3 263.3) | 175 (2 538) | 425 (6 164) | 375 (5 439) |
| Temperature | up to 100°C | | | | | | | | | | |
| A and B fittings (free nut) | 1/2 JIC | | | | | | | 3/4 JIC | 7/8 JIC | 3/4 JIC | 7/8 JIC |
| Fitting material | Treated Steel | | | | | | | | | | Treated Steel |
| | Without Spring | With spring | Without spring | | | | | | | | |
| 0.4 m (1.3 ft) | - | - | 050.450.101 | - | - | - | - | - | - | - | - |
| 0.5 m (1.6 ft) | - | - | - | - | 76.022 | - | - | 76.035 | - | 76.074 | - |
| 0.6 m (1.9 ft) | - | - | 050.450.106 | - | - | - | - | - | - | - | - |
| 0.8 m (2.6 ft) | - | - | 050.450.107 | - | - | - | - | - | - | - | - |
| 1 m (3.3 ft) | - | 050.450.601 | 050.450.102 | 76.010 | 76.023 | 050.451.001 | - | 76.036 | 76.049 | 050.450.905 | - |
| 2 m (6.5 ft) | - | 050.450.602 | 050.450.109 | 76.012 | 76.025 | - | 76.064 | 76.038 | 76.051 | 76.077 | 76.090 |
| 3 m (9.8 ft) | - | 050.450.603 | 050.450.110 | - | 76.026 | - | 76.065 | 76.039 | - | 050.450.904 | 76.091 |
| 4m (13.1 ft) | - | - | - | - | - | - | - | - | - | 76.079 | - |
| 5 m (16.4 ft) | - | 050.450.604 | 050.450.108 | - | 76.028 | 050.451.002 | 76.067 | 76.041 | - | 76.080 | 76.093 |
| 6 m (19.6 ft) | - | - | - | 76.016 | 76.029 | - | - | 76.042 | - | 76.081 | 76.094 |
| 7 m (23 ft) | - | - | - | - | 76.030 | - | - | 76.043 | 76.056 | - | - |
| 7.5 m (24.6 ft) | - | 050.450.605 | 050.450.111 | - | - | - | - | - | - | - | - |
| 8 m (26.2 ft) | - | - | - | - | 76.031 | - | 76.070 | 76.044 | 76.057 | - | 76.096 |
| 10 m (32.8 ft) | - | 050.450.606 | 050.450.104 | - | 76.033 | 050.451.003 | - | 76.046 | - | 76.085 | - |
| 12 m (39.4 ft) | - | - | - | - | 76.034 | - | 76.073 | - | - | 76.086 | - |
| 14 m (45.9 ft) | - | - | - | - | - | - | - | - | - | 76.842 | - |
| 15 m (49.2 ft) | - | 050.450.607 | 050.450.112 | - | - | - | - | - | - | - | - |
| 18 m (59 ft) | - | - | - | - | - | - | - | - | - | 76.844 | - |
| 20 m (65.6 ft) | - | 050.450.608 | 050.450.105 | - | - | - | - | - | - | 050.450.901 | - |
| 25 m (82 ft) | - | - | 050.450.113 | - | - | - | - | - | - | - | - |
| 30 m (98.4 ft) | - | 050.450.609 | - | - | - | - | - | - | - | 050.450.906 | - |
| Stainless steel fittings | | | | | | | | | | | |
| 0.6 m (1.9 ft) | - | 050.450.651 | - | - | - | - | - | - | - | - | - |
| 1 m (3.3 ft) | 050.451.151 | - | - | - | - | - | - | - | - | - | - |
| 1.6 m (5.2 ft) | 050.451.155 | 050.450.654 | 050.450.155 | - | - | 050.450.951 | - | - | - | - | - |
| 3.4 m (11.1 ft) | - | - | - | - | - | - | - | - | - | - | - |
| 5 m (16.4 ft) | 050.451.152 | 050.450.652 | 050.450.152 | - | - | - | - | - | - | - | - |
| 6 m (19.6 ft) | - | - | - | - | - | - | - | - | - | - | - |
| 7.5 m (24.6 ft) | 050.451.153 | 050.450.653 | 050.450.153 | - | - | - | - | - | - | - | - |
| 10 m (32.8 ft) | 050.451.154 | - | 050.450.154 | - | - | - | - | - | - | - | - |

Fluid Hoses

PTFE Fluid hoses configuration with JIC fittings

Part Number according to length with fittings per meter.

PTFE hoses are highly recommended for moisture sensitive material (sensitive with air humidity) such as most hardener for Polyurethane paint and those which are chemically aggressive.

| Item | Part Number | | | | | | | | |
|-------------------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Conductive | YES | | | | | | | | |
| Color | Metallic grey | | | | | | | | |
| Internal diameter (mm(inch)) | 4.8 (3/16") | 6.35 (1/4") | | 9.52 (3/8") | | | 12.7 (1/2") | | 19.5 (3/4") |
| Max. operating pressure (bar (psi)) | 290 (4 206) | 240 (3 481) | 500 (7 252) | 150 (2 175) | 345 (5 004) | 500 (7 252) | 450 (6 527) | 345 (5 004) | 500 (7 252) |
| Temperature | up to 110°C | | | | | | | | |
| A and B fittings (free nut) | 1/2 JIC | | | 3/4 JIC | | | 7/8 JIC | 1" 1/16 JIC | |
| 0.6 m (1.9 ft) | 052.452.010 | - | - | - | - | - | - | - | - |
| 0.7 m (2.3 ft) | - | - | - | 050.451.904 | - | - | - | - | - |
| 1 m (3.3 ft) | - | 052.452.001 | 050.457.301 | 050.451.903 | - | - | - | - | - |
| 1.5 m (4.9) | - | - | 050.457.302 | - | - | - | - | - | - |
| 2 m (6.5 ft) | - | - | - | 050.451.901 | 76.800 | 050.457.001 | 050.452.204 | 76.872 | 050.457.201 |
| 3 m (9.8 ft) | - | - | - | - | 76.801 | - | - | 76.874 | - |
| 4 m (13.1 ft) | - | - | - | - | - | - | - | 76.927 | - |
| 5 m (16.4 ft) | - | 052.452.002 | - | 050.451.902 | 76.802 | 050.457.002 | - | 76.928 | 050.457.202 |
| 7 m (23 ft) | - | - | - | - | 76.803 | - | 050.452.201 | - | - |
| 10 m (32.8 ft) | - | - | - | - | 76.914 | - | 050.452.203 | - | 050.457.203 |

POLYAMIDE Fluid hoses configuration with NPSM Stainless steel fittings

With NPSM fittings - Part Number according to length with fittings per meter

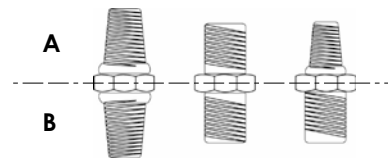
| Max. operating pressure (bar (psi)) | 350 (5 076) | | | 500 (7 250) | | |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Female nut | 1/4 NPSM | 3/8 NPSM | 1/2 NPSM | 1/4 NPSM | 3/8 NPSM | 1/2 NPSM |
| Ø internal (mm(inch)) | Ø6.35 (1/4") | Ø 9.5 (3/8") | Ø12.7 (1/2") | Ø6.35 (1/4") | Ø 9.5 (3/8") | Ø12.7 (1/2") |
| 0.5 m (1.6 ft) | 050350101 | 050350201 | 050350301 | 050500101 | 050500201 | 050500301 |
| 1 m (3.3 ft) | 050350102 | 050350202 | 050350302 | 050500102 | 050500202 | 050500302 |
| 1.6 m (5.2 ft) | 050350103 | 050350203 | 050350303 | 050500103 | 050500203 | 050500303 |
| 3 m (9.8 ft) | 050350104 | 050350204 | 050350304 | 050500104 | 050500204 | 050500304 |
| 7.5 m (24.6 ft) | 050350105 | 050350205 | 050350305 | 050500105 | 050500205 | 050500305 |
| 10 m (32.8 ft) | 050350106 | 050350206 | 050350306 | 050500106 | 050500206 | 050500306 |
| 15 m (49.2 ft) | 050350107 | 050350207 | 050350307 | 050500107 | 050500207 | 050500307 |
| 30 m (98.4 ft) | 050350108 | 050350208 | 050350308 | 050500108 | 050500208 | 050500308 |

PTFE Fluid hoses configuration with NPSM Stainless steel fittings

With NPSM fittings - Part Number according to length with fittings per meter

| Max. operating pressure (bar (psi)) | 350 (5 076) | | | 500 (7 250) | | |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Female nut | 1/4 NPSM | 3/8 NPSM | 1/2 NPSM | 1/4 NPSM | 3/8 NPSM | 1/2 NPSM |
| Ø internal (mm(inch)) | Ø6.35 (1/4") | Ø 9.5 (3/8") | Ø12.7 (1/2") | Ø6.35 (1/4") | Ø 9.5 (3/8") | Ø12.7 (1/2") |
| 0.5 m (1.6 ft) | 050350151 | 050350251 | 050350351 | 050500151 | 050500251 | 050500351 |
| 1 m (3.3 ft) | 050350152 | 050350252 | 050350352 | 050500152 | 050500252 | 050500352 |
| 1.6 m (5.2 ft) | 050350153 | 050350253 | 050350353 | 050500153 | 050500253 | 050500353 |
| 3 m (9.8 ft) | 050350154 | 050350254 | 050350354 | 050500154 | 050500254 | 050500354 |
| 7.5 m (24.6 ft) | 050350155 | 050350255 | 050350355 | 050500155 | 050500255 | 050500355 |
| 10 m (32.8 ft) | 050350156 | 050350256 | 050350356 | 050500156 | 050500256 | 050500356 |
| 15 m (49.2 ft) | 050350157 | 050350257 | 050350357 | 050500157 | 050500257 | 050500357 |
| 30 m (98.4 ft) | 050350158 | 050350258 | 050350358 | 050500158 | 050500258 | 050500358 |

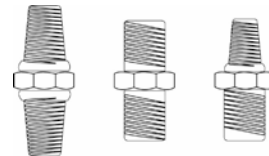
Fittings

**Male to Male connection Pmax. = 20 Bar**

Fittings and adaptor METRIC / NPT / BSP (Gas)

| Male (A) | Male (B) | | | | | | | | |
|------------------|-------------------------------|-------------------------------|-------------------------------|--------------|---------------|---------------|-----------------------------|------------------|--------------|
| | M 14 x 125 | M 18 x 125 | M 26 x 125 | G1/4" (8x13) | G3/8" (12x17) | G1/2" (15x21) | G3/4" (20x27) | G" 1 1/4 (33x42) | G2" (50x60) |
| M 14 x 125 | | 050.102.133 050.102.142(1) | | | | | | | |
| M 18 x 125 | 050.102.133 050.102.142(1) | 050.102.102 | | | | | | | |
| G1/8" (5x10) | 050.102.412 | | | | | | | | |
| G1/4" (8x13) | 050.102.405 050.102.441(1) | 050.102.408 050.102.444(1) | | | 904.523.003 | | | | |
| G3/8" (12x17) | 050.102.410 | 050.102.411 050.102.436(1) | | 904.523.003 | | 904.523.006 | | | |
| G1/2" (15x21) | 050.102.513 | 050.102.406 050.102.418(1) | 050.102.402 050.102.437(1) | | 904.523.006 | | 904.523.012 | | |
| G3/4" (20x27) | | 050.102.429 | 050.102.407 | | | 904.523.012 | 211017(1)* 905210710 (#) | | |
| G" 1 1/4 (33x42) | | | | | | | | 144050052(1) | 150104106(1) |
| 1/2" NPT | | | 050.102.507 | | | | | | |

* Length 850 mm, (1): Stainless steel, (#): Length 100 mm

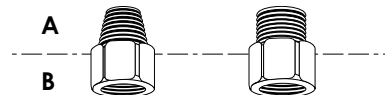
**Male to Male connection Pmax. = 60 Bar**

Fittings and adaptor BSP (Gas) / NPS / NPT

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

Male to Female connection Pmax. = 20 Bar

Fittings and adaptor METRIC / NPS / JIC / BSP (Gas)



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

Male to Female connection

Fittings and adaptor NPS / JIC / BSP (Gas)



Fittings

| Male (A) | Female (B) | | |
|--------------|-----------------------|-----------------------|----------------------|
| | 1/2" JIC | 1/4" NPSM | G1/4" (8x13) |
| 1/2" JIC | | 050.123.305 (XXXB???) | |
| 1/4" NPSM | 050.123.304 (XXXB???) | | |
| G1/4" (8x13) | | | 050.123.205 (60 BAR) |

Female to Female connection Pmax. = 60 Bar

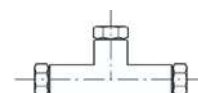
Fittings and adaptor METRIC / BSP (Gas)

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



T Female connection Pmax. = 25 Bar

| Description | Part number |
|---------------|----------------------------|
| G1/4" (8x13) | 904.303.002 550.038 (1) |
| G3/8" (12x17) | 904.303.003 |
| G1/2" (15x21) | 904.303.004 |
| G3/4" (20x27) | 904.303.006 |
| 1/4" NPT | 905.083.301 (2) |



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

T FMF CONNECTION

| Female (A) | Male (B) | |
|---------------|--------------|----------------------|
| | G1/4" (8x13) | G3/4" (20x27) |
| G1/4" (8x13) | 552441 (20B) | - |
| G3/4" (20x27) | - | 150104251 (500B) (1) |

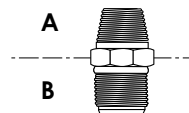
(1): Stainless steel

Plugs Male Pmax. = 20 Bar

| Description | Part number |
|---------------|-----------------------------|
| G1/8" (5x10) | 906.333.106 |
| G1/4" (8x13) | 906.333.102 906.314.211 (1) |
| G3/8" (12x17) | 906.333.104 906.314.216 (1) |
| G1/2" (15x21) | 906.333.103 906.314.210 (1) |
| G3/4" (20x27) | 906.333.105 906.331.116 (1) |
| 1/4" NPT | 905.210.303 (1) |
| 3/8" NPT | 905.210.304 (1) |



Male to Male Fittings and Adaptors (Protective coated Steel) Pmax. = 360 Bar



| Male (A) | Male (B) | | | | | |
|----------|-----------|-----------------------------|-----------------------------|----------|-------------|-------------|
| | 7/16" JIC | 1/2" JIC | 3/4" JIC | 7/8" JIC | 1 1/16" JIC | 1 5/16" 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* | - | - | - |
| 1/4" NPT | - | 000.972.025 | 905.160.212 | - | - | - |
| 3/8" NPT | - | 000.972.028 050.470.202# | 905.160.206 905.160.103# | - | - | - |
| 1/2" NPT | - | - | 905.160.204 | - | - | - |
| 3/4" NPT | - | - | 905.160.203 | - | - | - |
| G1/8" co | 550.920* | 550.548* | - | - | - | - |
| G1/4" co | - | 550.542* | - | - | - | - |
| G3/8" co | - | 550.549* | 550.679* | 550.609* | - | - |
| G1/2" co | - | - | 550.544* | 550.540* | 550.903* | - |
| G3/4" co | - | 550.905* | - | 550.823* | 550.864* | 550.932* |
| G1" co | - | - | - | - | 550.900* | 550.901* |

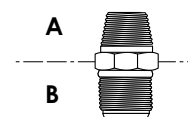
* Up to 400 BAR, # Nickel Coated

Fittings

Male to Male Fittings and Adaptators
(Stainless Steel) Pmax. = 250 Bar

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

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



Spray guns

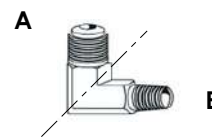
Male to Male Fittings and Adaptators
(Stainless Steel) Pmax. = 500 Bar

| Male (A) | Male (B) | | |
|-----------|-----------|-----------|-----------|
| | 1/4" NPSM | 3/8" NPSM | 1/2" NPSM |
| 1/4" NPSM | 150104151 | 905210516 | 150104101 |
| 3/8" NPSM | 905210516 | 150104152 | - |
| 1/2" NPSM | 150104101 | - | 150104153 |
| 1/2" JIC | - | 150104105 | - |
| 3/4" BSP | 150104102 | 150104103 | 150104104 |

Pumps

Male to Male Elbow Fittings and Adaptators (Protective coated steel) Pmax. = 400 Bar

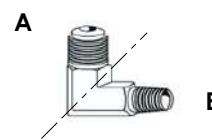
| Male (A) | Male (B) | |
|----------|-----------------|-----------------|
| | 1/2" JIC | 3/4" JIC |
| 1/8" NPT | 905.160.105 (2) | - |
| 1/4" NPT | - | 905.160.102 (2) |
| 3/8" NPT | - | 905.160.103 (2) |
| 1/2" NPT | - | 905.160.104 (3) |
| G1/4" co | 550.596 | 550.923 |
| G3/8" co | 551.819 | - |



Machines & Controllers

Male to Male Elbow Fittings and Adaptators (Stainless steel) Pmax. = 250 Bar

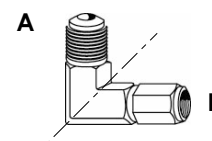
| Male (A) | Male (B) | |
|----------|-------------|-------------|
| | 1/2" JIC | 3/4" JIC |
| 1/4" NPT | 905.210.602 | - |
| 3/8" NPT | 905.210.603 | - |
| 1/2" NPT | 905.210.604 | - |
| 3/4" NPT | - | 905.210.615 |



Accessories

Male to Female Elbow Fittings (Stainless Steel) Pmax. = 360 Bar

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



General informations

Female to Female Elbow Fittings (Protective coated steel) Pmax. = 400 Bar

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

Fittings

T FEMALE CONNECTION Pmax = 250 BAR

| Female (A) | Part number |
|------------|-------------|
| 1/4" NPT | 905.083.301 |



Y Stainless steel fitting High Pressure

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



Plugs Male Pmax. = 360 Bar

| Description | Part number |
|-------------|-------------|
| 1/8" NPT | 905.083.301 |
| 1/4" NPT | 905.210.303 |
| G1" | 551.247 |



Plugs female Pmax. = 360 Bar

| Description | Part number |
|-------------|-------------|
| 1/2" JIC | 906.333.301 |



Check valve

| Description | 80 BAR | 200 BAR | 400 BAR | 500 BAR |
|-------------|-------------|-------------|--|------------------|
| FF 1/4" NPT | | | 903.160.512 (1) | |
| FF G3/4" | | | | 601.278 (L86 mm) |
| FF G1" | | | 625.119 (L141 mm) 625.759 (2) (L141 mm) | |
| MF G3/8" | | 900.011.229 | | |
| MF G1/2" | 104.403 (1) | | | |

(1): Stainless steel; (2): with plug

Swivel fittings

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

Valves

| Thread | Material | Pressure (bar) | Connection | Part number |
|--------|--------------|----------------|------------|-------------|
| 1/4" | Brass | 10 | MF | 90017 |
| | Brass | 16 | FF | 903090806 |
| | SST | 500 | FF | 601374 |
| | Carbon steel | 400 | FF | 601046 |
| | SST | 400 | FF | 903091101 |
| | - | 10 | MF | 903093302 |
| 3/8" | Brass | 30 | FF | 903090206 |
| | SST | 500 | FF | 903090220 |
| | Carbon steel | 500 | FF | 601047 |
| 1/2" | SST | 64 | FF | 903090219 |
| | Carbon steel | 400 | FF | 903090211 |
| | Carbon steel | 500 | FF | 601048 |
| 3/4" | Brass | 20 | FF | 903090208 |
| | Carbon steel | 315 | FF | 903090212 |
| 1" | Carbon steel | 315 | FF | 601074 |



3 way valves

| Thread | Material | Pressure (bar) | Connection | Part number |
|---------|--------------|----------------|------------|-------------|
| 1/4 NPT | SST | 175 | FFF | 903090221 |
| 3/8" | Carbon steel | 120 | FFF | 903091003 |
| 1/4" | SST | 120 | FFF | 903091006 |



Air line

Air Hoses



Used in majority of the applications, allows the equipment (gun and pump) to have the same potential, ATEX certified.

- 60% lighter
- 150% more flexible

Air hoses configuration

| Available in 3 diameters: | Small | Medium | Big |
|---------------------------------------|-------------|-------------|-------------|
| Technical Characteristics | | | |
| Material | TPU* | TPU* | Nitrile |
| Color | Black | Black | Black |
| Internal Diameter (mm) | 6.5 | 8 | 10 |
| External Diameter (mm) | 10.5 | 12 | 16 |
| Conductor | Yes | Yes | Yes |
| Weight (grams per meter) | 61 | 75 | 130 |
| Max operating pressure in bar | 14 | 14 | 10 |
| Operating temperature in °C | -40 to 80 | -40 to 80 | up to 60 |
| Hoses with fittings | | | |
| Fittings | 1/4" NPS | | 3/8" NPS |
| 0.6m | 050.382.105 | 050.389.109 | - |
| 1.2m | 050.382.102 | 050.389.107 | - |
| 2m | 050.382.111 | 050.389.110 | - |
| 5m | 050.382.109 | 050.389.101 | 050.381.101 |
| 7.5m | 050.382.114 | 050.389.103 | - |
| 10m | 050.382.110 | 050.389.102 | 050.381.102 |
| 12.5m | 050.382.106 | - | - |
| 15m | 050.382.116 | 050.389.105 | - |
| 20m | - | 050.389.108 | - |
| 30m | - | 050.389.106 | - |
| Hoses without fittings | | | |
| 25m | 050.382.001 | 050.389.001 | 050.381.001 |
| 152m | 050.382.006 | 050.389.005 | - |
| Fittings | | | |
| Hose crimp ring | 906.311.237 | 906.311.238 | 906.311.226 |
| KIT STRAIGHT CONN. + NUT 1/4 NPS | 050.231.705 | 050.231.707 | 050.231.702 |
| fitting = 1 crimp ring + 1 kit | | | |
| Manual Crimper (Diameters 5 to 22) | 906.311.202 | | |

* TPU : Thermoplastic Polyurethane

Polyamide or Polyurethane Air Hoses

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

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

Hose Sleeve

Hose sleeve adds a protection to the hose for a longer life

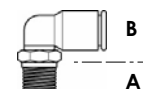
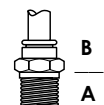
| Product hole (mm) | Length (mm) | Part number |
|-------------------|-------------|-------------|
| 40 | 10 | 129.270.087 |



Fittings

FAST FITTINGS FOR SMALL DIAMETER SPECIAL AIR HOSES

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



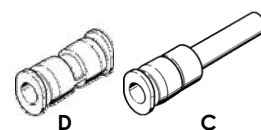
Fast fitting T

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



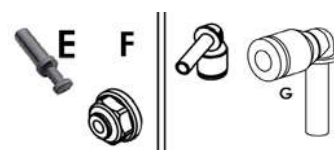
Fast fitting reduction and union

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



Fast fitting reduction, union and plug

| | Description | Part number |
|---|-----------------------------------|-------------|
| E | FAST PLUG 4X6 | 905120924 |
| E | FAST PLUG 2.7X4 | 905120937 |
| F | ELBOW FAST FITTING BULKHEAD 2.7X4 | 905120910 |
| F | ELBOW FAST FITTING BULKHEAD 4X6 | 905120911 |
| G | ELBOW FAST FITTING MF 2.7X4 | 905120983 |



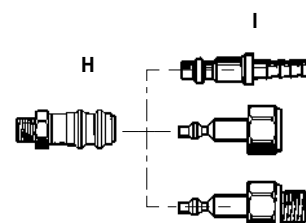
Y Air fitting

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



ISO 6150 Quick-fit fittings (maximum pressure: 10 bar)

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



Fittings

Complete quick disconnect 1/4" NPS for air hose

| Description | Part number |
|------------------------------------|-------------|
| Air inlet quick-disconnect fitting | 905.030.105 |

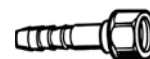
Quick fittings for Ø 8 hose

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

Crimp fittings for low pressure air hoses

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

J



K

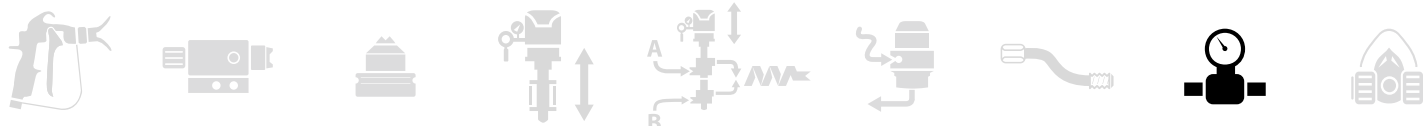


L



M





Pressure regulators Air regulators

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

Configuration of pressure regulator

| Description | Inlet pressure (bar) | Regulated pressure (bar) | Max output (m3/h) | Inlet | Outlet | Part number | Wall mounting option | | | |
|--|----------------------|--------------------------|-------------------|--------|--------|-------------|----------------------|--|-------------|---------|
| Phosphore knob regulator | 9 | 3,5 | 25 | F1/4' | F1/4' | 116.240.500 | - | | | |
| Black knob regulator | | | | | | 116.380.700 | 016.180.010 | | | |
| | | | | | | 016.380.500 | - | | | |
| Phosphore knob regulator | | 5,5 | 25 | | | 116.370.700 | 016.180.010 | | | |
| Black knob regulator | | | | | | 016.370.500 | | | | |
| | | | | | | 116.390.500 | | | | |
| Equipped regulator with isolating valve and pressure gauge | | 5,5 | 25 | | | | 019.720.000 | | | |
| phosphore knob regulator | | 9 | 25 | | | 116.365.500 | | | | |
| Black knob regulator | 116.360.500 | | | | | | | | | |
| Black Bare regulator | 20 | 4 | 210 | F 1/2' | F 1/2' | 016.200.000 | - | | | |
| Black Bare regulator | | 9 | | | | 210 | | | 016.280.000 | |
| Equipped regulator with pressure gauge and wall bracket | | | | | | | | | 019.780.100 | |
| | | | | | | | | | 016.470.000 | |
| Red ring regulator | 21 | 10 | 360 | F 3/4' | F 3/4' | 016.480.000 | | | | |
| Red ring regulator | | 7 | | | | 360 | | | | |
| Black Bare regulator | | | | | | | | | 91.530 | 210.006 |

DE37 Purifier-regulator



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

Technical characteristics:

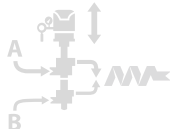
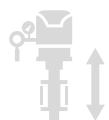
- Maximum operating air output: 37 m³/h
- Maximum operating air pressure: 10 bar
- Height: 290 mm
- Air inlet opening: F1/4"G

Standard equipment:

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

| Specifications | | DE37 |
|--------------------------------|-----------|---|
| Air output (m ³ /h) | | 37 |
| Maximum fluid pressure (bar) | | 10 |
| Height (cm) | | 29 |
| Fitting | Air Inlet | F8 x 13G |
| Set-up | | 1 regulated pressure gauge 1 valve F 1/4" G 1 ball valve F 1/4" G 2 air outlet taps M 1/4" NPS |

| 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 |



Protection

RC 756 respirators

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

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

Configuration of the RC756 respirator

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

Filters and pre-filters

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

Accessories

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

Protective overalls



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

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

| 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 |

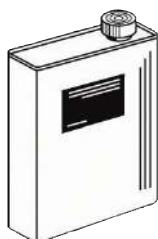
Protective hood

Protects the head and hair.

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

| Description | Quantity | Part number |
|-----------------|----------|-------------|
| Protective hood | 5 | 043.250.001 |

Miscellaneous Lubricants & greases

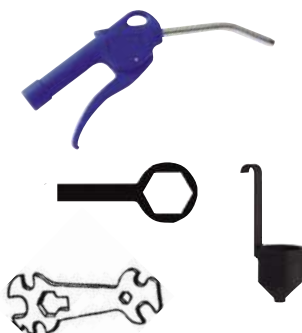


Lubricants, greases and glue for pumps

| Description | Volume | Material | Part number |
|---|------------|--------------------------|-------------|
| Lubricants | | | |
| T lubricant can | 125ml | For solvent-based paints | 149.990.020 |
| T lubricant kit | 3x 2L = 6L | | 151.260.820 |
| P lubricant can | 2L | For Polyurethane paint | 149.990.022 |
| P lubricant kit | 3x 2L = 6L | | 151.260.823 |
| Oil HP 150 For diaphragm pump & oiler (for agitator) | 2L | | 149.990.017 |
| Grease | | | |
| Vaseline | 1kg | | 560.440.002 |
| Box of PTFE grease | 450g | | 560.440.001 |
| Box of grease special air motor seals (Isoflex) | 1kg | | 560.440.005 |
| Box of grease (Isoflex) | 1kg | | 560.440.003 |
| Grease tube special air motor seals | 20g | | 560.440.105 |
| Teflon® grease tube (Technilub) | 10ml | | 560.440.101 |
| Box of white grease | 450g | | 560.420.005 |
| Glue | | | |
| "Anaerobic adhesive waterproof for seals" | 75 ml | | 554.180.001 |
| "Anaerobic adhesive strong thread" | 50 ml | | 554.180.004 |
| Low strength anaerobic adhesive tube | 50 cc | | 554.180.010 |
| Retaining Compound - high strength. General purpose. Fast curing. | 50 cc | | 554.180.014 |
| Sealing glue tube | 250ml | | 554.180.015 |

Miscellaneous

| Description | Part number |
|---|-------------|
| M22 / Fpro /Xcite™ gun wrench | 049.030.042 |
| Large size brush | 906.300.101 |
| Small size brush | 906.300.102 |
| Wrench for product filters | 049.030.018 |
| Large blow gun | 129.371.000 |
| Viscosity cup n° 4 CA4 | 049.221.400 |
| Thickness gauge from 25 to 2000µ | 000.790.020 |
| Adhesive-roller with Sames Kremlin logo (75mm x 100m) | 571.141.003 |
| Teflon roll 13.5M.X12.7mm | 554.600.301 |
| Azur™ key | 149.030.017 |
| Key for ASC and ASB | 149.030.043 |



Compatibility of trolleys



| | Single post cart | Dismountable trolley | Dismountable trolley with drum table | Double post cart | Reinforced double post cart | Cart | Heavy Duty Trolley |
|--------------|------------------|----------------------|--------------------------------------|------------------|-----------------------------|--------|--------------------|
| P/N | 051.730.110 | 151.241.000 | 151.242.000 | 051.221.000 | 051.231.000 | 208.69 | 151.590.650 |
| 10C18 | ✓ | | | | | | |
| 15C25 | | ✓ | ✓ | | | | |
| 15C50 | | ✓ | ✓ | | | | |
| 30C25 | | ✓ | ✓ | | | | |
| 35C50 | | ✓ | ✓ | | | | |
| 40C50 | | | | ✓ | | | |
| 40C50WB | | | | ✓ | | | |
| 40C100 | | | | ✓ | | | |
| 40C100WB | | | | ✓ | | | |
| 40C260 | | | | | ✓ | | |
| Azur™ 52C225 | | | | | | | ✓ |
| 53C124 | | | | | | ✓ | |
| 65C260 | | | | | ✓ | | |
| Azur™ 72C160 | | | | | | | ✓ |
| 80C220 | | | | | | ✓ | |
| 34F60 | | | | ✓ | | | |
| 40F50 | | | | ✓ | | | |
| 40F100 | | | | ✓ | | | |
| 40F260 | | | | | ✓ | | |
| 65F260 | | | | | ✓ | | |

Description

(1) Drum table alone

Part number

151.240.009


Description

Perforated rack with brackets

Part number

056.100.199



Spray guns

Pumps

Machines & Controllers

Accessories

General informations

General informations

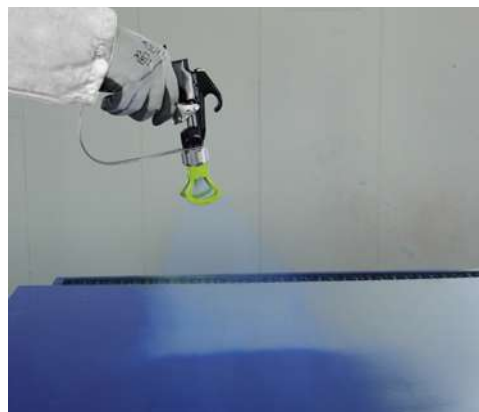
Paint

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

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

In general, the stages are as follows :

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



Paint

Surfaces preparation

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

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

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

Once treated, the surfaces should be free from :

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

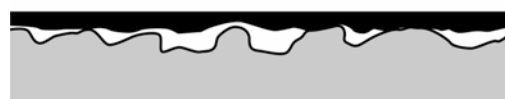
To obtain the best protection against corrosion (mainly for metal), we coat with either :

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

A **wash primer** is a liquid product of around 16s 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 CA₄40s CA₄

Paint

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

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

Components of paint

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

Amongst these substances, we find :

- » Binders
- » Pigments
- » Fillers

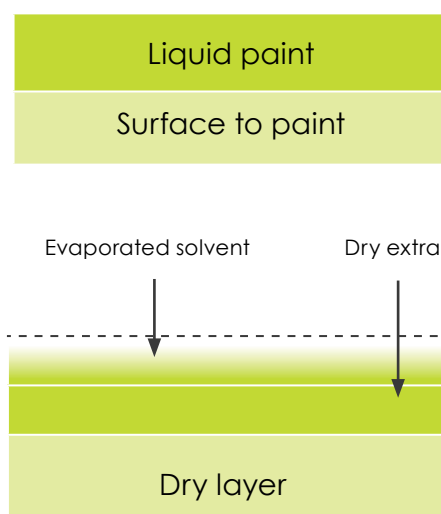
The binder is generally a more or less transparent body which resembles a resin. Dissolved on its own in a solvent it produces a lacquer:

Binder + Solvent = Lacquer

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

Binder + Solvent + Pigments = Paint

Dry and wet layer



GLOSSARY

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

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

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

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

Paint

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

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

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

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

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

Paint consistency

Viscosity

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

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

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

The effect of temperature on viscosity

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

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

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

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

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

Paint

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

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

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

Drying of paints

he component of paint can be classed in two groups :

» Dry extracts

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

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

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

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 15 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 95**.

Example

Let say you want to feed 1 AIRLESS® gun equipped with a 18.13 (519) tip. Referring to the chart on **page 22**, this tip will flow 1.6L at 200B fluid pressure. And your material is having a viscosity of 5000 cps. The part to spray on is at 10m from the pump and you will use a 9.5mm hose + 1m whip end with 4.8mm Internal diameter.

1st : calculate the fluid output per cycle appropriate for a piston pump :

$$1.6 \text{ L} / 15 \text{ cycle} = 0.106\text{L/cycle or } 106 \text{ cc/cycle}$$

2nd : calculate your pressure drop (refer to **page 95**)

L1 of 20m will loose 67 bars

L2 of 1m will loose 100 bar

In total, the pump must deliver at minimum 367 Bar to achieve the job properly.

What will be the best suitable pump :

» 35C50 : either the section is too small : only 50cc/cycle and the pressure ratio also : maximum fluid pressure of 210B --> do not choose this pump

» 40C100 : the hydraulic section of 100cc/cycle is well dimensioned to deliver the require paint flowrate BUT the pressure ratio of 40/1, is

not enough, because delivering at maximum 240 Bar --> do not choose this

» 72C160 : the section of 160cc/cycle is really well design AND the maximum fluid delivery will be 432B which is also enough for the job --> this pump is your best choice for this specific example

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° filter (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

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

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

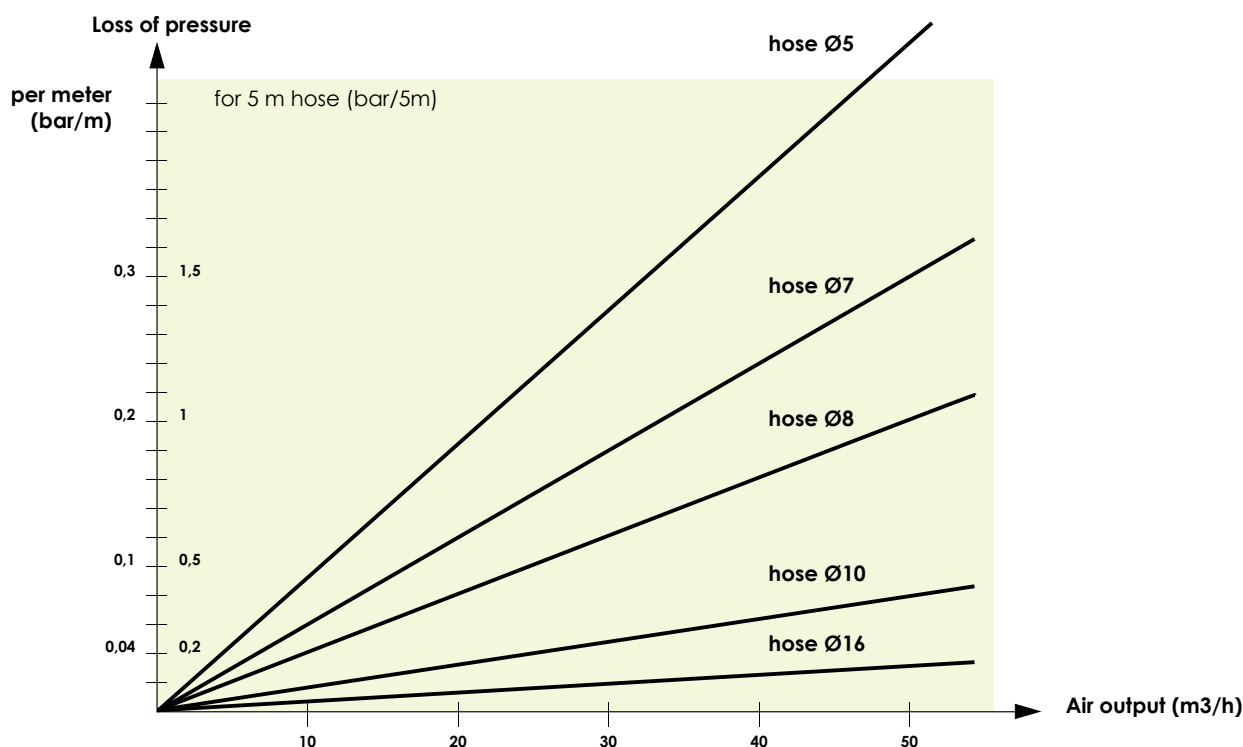
PIPE DIAMETER CALCULATION

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

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

PRACTICAL PAGES

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 m³/h.

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

| Tool | Consumption | |
|------------------|--------------|----------|
| | l/mn | m³/h |
| Conventional gun | 160 at 500 | 10 at 30 |
| AIRLESS® 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 :

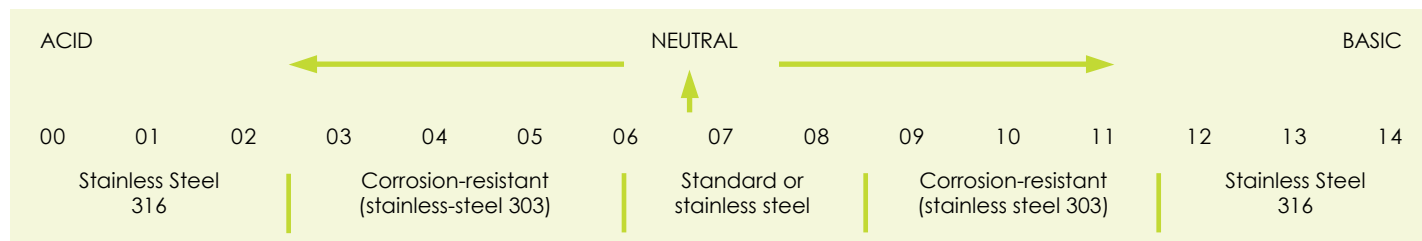
$Q = 1.2 \times \text{fluid output} \times \text{pressure ratio} \times (\text{air motor feeding pressure in bar} + 1 \text{ bar for atmosphere})$

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 | 3.5314×10^{-5} |
| CONVERT FROM | TO | MULTIPLY BY |
| Cubic centimeters | ounces | 0.033 |
| Cubic centimeters | liquid gallons | 0.0002642 |
| Cubic feet | liquid gallons | 7.4805 |
| Cubic feet | cubic inches | 1.728 |
| Cubic feet/min. | gallons/min. | 7.4805 |
| CONVERT FROM | TO | MULTIPLY BY |
| Cubic inches | gallons | 0.004329 |
| Cubic inches | cubic centimeters | 16.387 |
| Cubic inches | cubic feet | 0.0005787 |
| Cubic meters | liquid U.S. gallons | 264.17 |
| Cubic meters | cubic centimeters | 1×10^6 |
| CONVERT FROM | TO | MULTIPLY BY |
| Cubic meters | cubic feet | 35.31 |
| Cubic meters | cubic inches | 61,023.38 |
| Feet | centimeters | 30.48006 |
| Feet | meters | 0.3048006 |
| Feet of water | atmosphère | 0.02949 |
| CONVERT FROM | TO | MULTIPLY BY |
| Feet of water | psi | 0.443 |
| Feet/hour | miles/hour | 0.00018933 |
| Feet/min. | meters/min. | 0.3048 |
| Feet/min. | miles/hour | 0.01136 |
| Feet/sec. | miles/hour | 0.681818 |

| CONVERT FROM | TO | MULTIPLY BY |
|-----------------------------|---------------------|-------------|
| Gallons | cubic cm | 3 785.43 |
| Gallons | cubic inches | 231 |
| Gallons | imperial gallons | 0.83268 |
| Gallons | cubic feet | 0.13368 |
| Gallons/min. | cubic feet/min. | 0.13368 |
| CONVERT FROM | TO | MULTIPLY BY |
| Inches | feet | 0.083333 |
| Inches | meters | 0.254 |
| Inches | millimeters | 25.40005 |
| Inches | mils | 1 000 |
| Kilograms | pounds | 2.2046 |
| CONVERT FROM | TO | MULTIPLY BY |
| Kilogrammes/cm ² | psi | 14,2233 |
| Kilogrammes/mm ² | 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 ² | cm ² | 6,4516 |
| Inches ² | feet ² | 0,006944 |
| Inches ² | mm ² | 645,163 |
| Millimètres ² | inches ² | 0,0015499 |
| daN | Kilograms | 1.0 |

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

PRACTICAL INFORMATION

Chemical compatibility charts

MATERIAL IN CONTACT (Wetted Parts)

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

PRACTICAL INFORMATION

Chemical compatibility charts

MATERIAL IN CONTACT (Wetted Parts)

| | Carbon steel | Aluminium | Brass | Stainless steel | Nylon | Nitrile | Viton | Leather | P.U. |
|----------------------------------|--------------|-----------|-------|-----------------|-------|---------|-------|---------|------|
| Ethanol | | | | | ••• | ••• | N | | |
| Ethyl ether | •• | •• | | •• | ••• | N | N | | • |
| Ethylene glycol | •• | •• | ••• | •• | ••• | ••• | ••• | | N |
| Ethyl-mercaptan | | | | | | N | ••• | | |
| Fuel | | | | | | N | ••• | | |
| Fluosilicate | | | ••• | | ••• | ••• | ••• | | |
| Formaldehyde | N | •• | | N | •• | ••• | ••• | | N |
| Glycol | •• | •• | | •• | ••• | ••• | ••• | | N |
| Gelatine | N | •• | | ••• | ••• | N | N | | N |
| Sodium hydroxide | | | | | ••• | N | N | | N |
| Ammonium hydroxide | | | | ••• | ••• | N | N | •• | N |
| Potassium hydroxide | • | N | | •• | ••• | N | N | | N |
| Calcium hypochlorite | | | | • | ••• | N | ••• | N | |
| Sodium hypochlorite | | | | | ••• | N | ••• | | N |
| Sodium hyposulfite | | | | | ••• | N | ••• | | |
| Fruit juice | | | | | | ••• | ••• | | |
| Methanol | N | ••• | | ••• | | | N | | • |
| Morpholine | ••• | ••• | | | | N | N | | |
| Methylethylcetone | ••• | •• | | ••• | ••• | N | N | | N |
| Sodium nitrite | | | | | N | N | ••• | | |
| Perchlorethylene (tetrachloret.) | ••• | •• | | ••• | N | •• | ••• | | N |
| Pernanganate de potassium | •• | •• | | •• | ••• | N | ••• | | |
| Hydrogen peroxide | N | ••• | N | •• | | N | •• | | |
| Chlorohated Peroxyde | | | | | | N | ••• | | |
| Phenol | N | N | | | ••• | N | ••• | | |
| Ammonium phosphate | | | ••• | ••• | ••• | ••• | ••• | | |
| Tridsodium 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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