



**Airless** spraying &  
equipment



**Catalog** V5.1

"Premium for finishers in heavy applications"

**Apply your Skills**

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## Editor's note



In order to help you increase your competitiveness, Sames Kremlin daily dedicates itself to excellence in terms of innovation and reliability.

We constantly improve our performances as well as quality to satisfy your needs.

We also help you define the equipment allowing your

installation to comply with V.O.C. directives.

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

You will find in this catalogue the equipment that will enable you to reach the paint application results you are aiming at.

Providing you with the best,

whatever your requirements, is our mission.

All Sames Kremlin team is at your disposal to answer your questions.

Enjoy your reading.

# NOTES

Notes area with horizontal dashed lines for writing.

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Office



Application Center

# Paint

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

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

In general , the stages are as follows:

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

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



**WATER-BASED MATERIALS**



**SOLVENT-BASED MATERIALS**



**1. PRIMERS**



**2. STAINS**



**3. DIRECT GLOSS/METALLIC**



**4. TOP COATS/HIGH GLOSS**



**5. UV PRODUCTS**



**6. MOISTURE-SENSITIVE MATERIALS**



**7. ANTI-CORROSION - ABRASIVES**



## 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 CA<sub>4</sub>



40s CA<sub>4</sub>

# Paint

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

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

## COMPONENTS OF PAINT

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

**Amongst these substances, we find:**

- » Binders
- » Pigments
- » Fillers

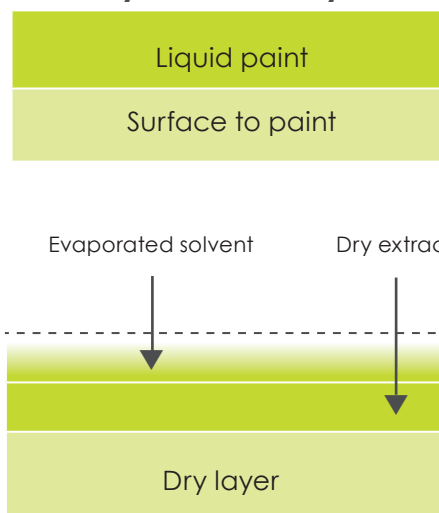
The binder is generally a more or less transparent body which resembles a resin. Dissolved on its own in a solvent it produces a lacquer:

**Binder + Solvent = Lacquer**

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

**Binder + Solvent + Pigments = Paint**

### Dry and wet layer



## GLOSSARY

### » Sticky film:

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

### » Dust-free film:

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

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

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

# Paint

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

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

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

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

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

## PAINT CONSISTENCY

### Viscosity

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

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

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

## THE EFFECT OF TEMPERATURE ON VISCOSITY

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

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

|                                                                                                                        | Temperatures (°C) |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------------------------------------------------------------------------------|-------------------|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                                                                                        | 2                 | 4   | 6   | 8  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 |
| V<br>I<br>S<br>C<br>O<br>S<br>I<br>T<br>Y<br><br>I<br>N<br><br>S<br>E<br>C<br>O<br>N<br>D<br>S<br><br>C<br>F<br>#<br>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 22 s, you should be ready for the following results:

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

## Paint

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

|                           | Temperatures (°C) | Viscosity - CA4 (seconds) | Spray gun output (cm <sup>3</sup> /mm) |
|---------------------------|-------------------|---------------------------|----------------------------------------|
| morning, cool workshops   | 15                | 23                        | 460                                    |
| Later - workshop heats up | 20                | 20                        | 520                                    |
| An oven switched on       | 25                | 17                        | 560                                    |

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

## DRYING OF PAINTS

he component of paint can be classed in two groups:

» Dry extracts

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

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

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



# NOTES

Handwriting practice lines consisting of 20 horizontal dotted lines.

# AIRLESS SPRAYING

Airless spraying

Plural component pumps and machines

Fittings and air treatment

# SFLOW™ 275 and 450 AIRLESS gun



The Airless manual pressure spray gun Sflow™ allows real material savings for industrial applications with a **high transfer efficiency of 81%**. Its reliable and solid construction together with a comfortable grip and fatigue-free trigger makes that your work has never been so easy.

Sflow™ manual Airless gun optimizes efficiency and brings operator great comfort. A large choice of tips: flat, reversible Tip Top or Skill (double insert) is available for every application.

## FEATURES

## BENEFITS

|                                                                   |                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------|
| High end tungsten carbide tip tested individually                 | Reliable and repeatable spraying quality                       |
| Finger trigger to close the gun, tip lock, hand safety protection | Enhanced security                                              |
| Patented dedicated tool                                           | Quick filter change                                            |
| Ergonomic design                                                  | Comfortable grip to prevent any MSDs                           |
| Build-in hook                                                     | To keep the gun near the workstation                           |
| Swivel handle fitting                                             | Better maneuverability                                         |
| Fatigue free 2 or 4 fingers                                       | To fit every painter morphology                                |
| Smart lock                                                        | Quick and easy tip orientation and positioning                 |
| High strength aircap ring                                         | Increased lifetime by reducing premature wear                  |
| Large filtration area                                             | Available in PA or stainless steel to prevent any tip plugging |

## SPECIFICATIONS

|                                                   |                                                                                                                                                                 |     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Sprayed materials                                 | Primers, Anti-corrosion, Anti-fouling, CARC, Bitumen, Acid Catalyst, UV, Moisture sensitive, polyurethane, Solvented or Waterborne, Single or Plural-components |     |
| Maximum fluid pressure                            | 275 - 450                                                                                                                                                       | bar |
| Maximum fluid temperature                         | 60                                                                                                                                                              | °C  |
| Recommended material viscosity range              | 20>25000                                                                                                                                                        | cps |
| Weight (with swivel and tip)                      | 597                                                                                                                                                             | g   |
| Sound pressure level                              | 88,6                                                                                                                                                            | dBa |
| Carbide seat                                      | ●                                                                                                                                                               |     |
| Wetted parts: Stainless steel, Aluminum and Rulon | ●                                                                                                                                                               |     |
| Trigger (2 and 4 fingers)                         | ●                                                                                                                                                               |     |
| Trigger lock safety                               | ●                                                                                                                                                               |     |
| Polished forged aluminum body                     | ●                                                                                                                                                               |     |
| Fluid orifice                                     | Ø 2,5                                                                                                                                                           |     |

## FITTINGS

|                 |               |                          |
|-----------------|---------------|--------------------------|
| Fittings        | Product inlet | M 1/2" JIC               |
| Swivel fittings | Product inlet | F 1/2" JIC / M 1/2" JIC  |
|                 | Product inlet | F 1/2" JIC / M 1/4" NPSM |

## SFLOW™ 275 and 450 AIRLESS gun

## SFLOW™ AIRLESS SPRAY GUN - FOR FLAT TIPS



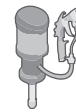
| Type of gun | Maximum Fluid Pressure (bar) | Trigger   | Flat base | Tips                     | Handle fluid fitting     | Part number |
|-------------|------------------------------|-----------|-----------|--------------------------|--------------------------|-------------|
| Sflow™      | 275                          | 2 fingers | ●         | to be ordered separately | 1/2" JIC                 | 135.740.200 |
| Sflow™      | 275                          | 4 fingers | ●         | to be ordered separately | 1/2" JIC                 | 135.740.400 |
| Sflow™      | 275                          | 2 fingers | ●         | to be ordered separately | Swivel fitting 1/4" NPSM | 135.740.240 |
| Sflow™      | 275                          | 4 fingers | ●         | to be ordered separately | Swivel fitting 1/4" NPSM | 135.740.440 |
| Sflow™      | 450                          | 4 fingers | ●         | to be ordered separately | 1/2" JIC                 | 135.745.420 |
| Sflow™      | 450                          | 4 fingers | ●         | to be ordered separately | Swivel fitting 1/4" NPSM | 151.745.440 |

## SFLOW™ AIRLESS SPRAY GUN - WITH REVERSIBLE TIP TOP TIPS



| Type of gun | Maximum Fluid Pressure (bar) | Trigger   | Reversible base | Tip                 | Handle swivel fluid fitting | Part number |
|-------------|------------------------------|-----------|-----------------|---------------------|-----------------------------|-------------|
| Sflow™      | 275                          | 2 fingers | ●               | TIP TOP 12-13 (515) | 1/2" JIC                    | 135.740.225 |
| Sflow™      | 275                          | 2 fingers | ●               | TIP TOP 12-13 (515) | 1/4" NPSM                   | 135.740.245 |
| Sflow™      | 275                          | 4 fingers | ●               | TIP TOP 14-13 (517) | 1/2" JIC                    | 135.740.427 |
| Sflow™      | 275                          | 4 fingers | ●               | TIP TOP 14-13 (517) | 1/4" NPSM                   | 135.740.447 |
| Sflow™      | 450                          | 4 fingers | ●               | TIP TOP 18-13 (519) | 1/2" JIC                    | 135.745.429 |
| Sflow™      | 450                          | 4 fingers | ●               | TIP TOP 18-13 (519) | 1/4" NPSM                   | 135.745.449 |

## AIRLESS 30C25 PAINT PUMP WALL MOUNTED KITS WITHOUT SWIVEL FITTING SFLOW™ GUN



| Kit designation                                           | Gun type        | Tip guard | Tip                      | Suction rod | Hoses * Length (m) | Pump output filter | Part number |
|-----------------------------------------------------------|-----------------|-----------|--------------------------|-------------|--------------------|--------------------|-------------|
| Wall-mounted with SFLOW™ gun kit pump                     | SFLOW™ 275 (2F) | Flat      | To be ordered separately | -           | 1.6 + 7.5          | -                  | 151.265.001 |
| Wall-mounted with SFLOW™ gun kit pump with rod and filter | SFLOW™ 275 (2F) | Flat      | To be ordered separately | Ø 25        | 1.6 + 7.5          | ●                  | 151.265.002 |

## AIRLESS 30C25 PAINT PUMP MOBILE KITS WITH SWIVEL FITTING SFLOW™ GUN



| Kit designation                                     | Gun type        | Tip guard  | Tip                 | Suction rod | Hoses * Length (m) | Pump output filter | Part number |
|-----------------------------------------------------|-----------------|------------|---------------------|-------------|--------------------|--------------------|-------------|
| Mobile with SFLOW™ gun kit pump and 6L hopper       | SFLOW™ 275 (2F) | Reversible | Tip Top 12-13 (315) | 6L hopper   | 1.6 + 7.5          | -                  | 151.265.003 |
| Mobile with SFLOW™ gun kit pump with rod and filter | SFLOW™ 275 (2F) | Reversible | Tip Top 12-13 (315) | Ø 25        | 1.6 + 7.5          | ●                  | 151.265.004 |

\* 3,2 and 4,8mm diameter

## AIRLESS spray guns accessories

### TRIGGERS

| Description      | Part number |
|------------------|-------------|
| 2 finger trigger | 129.740.006 |
| 4 finger trigger | 129.740.007 |

### MAINTENANCE KITS

| Description                                        | Part number |
|----------------------------------------------------|-------------|
| Maintenance kit for Sflow™ 275 (needle and spring) | 129.740.901 |
| Maintenance kit for Sflow™ 450 (needle and spring) | 129.740.902 |
| Seal kit - O'ring (x10)                            | 150.040.341 |
| Seal kit - cartridge (x10)                         | 109.420.298 |
| F 1/2" JIC - M 1/4" NPSM fitting for Sflow™ gun    | 050.123.304 |

### FILTER

| Description                     | Materials       | Color  | Recommended tips | Part number |
|---------------------------------|-----------------|--------|------------------|-------------|
| 200 mesh (74 µm) handle filter  | stainless steel | red    | 04-XX to 06-XX   | 129.740.081 |
| 200 mesh (74 µm) handle filter  | PA              | red    | 04-XX to 06-XX   | 129.740.181 |
| 150 mesh (100 µm) handle filter | stainless steel | blue   | 06-XX to 12-XX   | 129.740.082 |
| 150 mesh (100 µm) handle filter | PA              | blue   | 06-XX to 12-XX   | 129.740.182 |
| 100 mesh (150 µm) handle filter | stainless steel | yellow | 12-XX to 18-XX   | 129.740.083 |
| 100 mesh (150 µm) handle filter | PA              | yellow | 12-XX to 18-XX   | 129.740.183 |
| 50 mesh (300 µm) handle filter  | stainless steel | white  | 18-XX to 100-XX  | 129.740.084 |
| 50 mesh (300 µm) handle filter  | PA              | white  | 18-XX to 100-XX  | 129.740.184 |

### RECOMMENDED HOSES

| Description                         | Fluid hose diameter (mm) | Maximum fluid pressure (bar) | Hose length (m) | Fitting     | Part number |
|-------------------------------------|--------------------------|------------------------------|-----------------|-------------|-------------|
| Whip end fluid hose - F1/2" fitting | 3.2                      | 240                          | 1.6             | 050.102.301 | 050.451.155 |
| Fluid hose phosphor- F1/2" fitting  | 4.8                      | 240                          | 7.5             | 050.102.301 | 050.450.605 |
| Whip end fluid hose - F1/2" fitting | 4.8                      | 240                          | 1.6             | 050.102.301 | 050.450.654 |
| Fluid hose phosphor - F1/2" fitting | 6.3                      | 240                          | 7.5             | 050.102.301 | 050.450.111 |
| Whip end fluid- F1/2" fitting       | 6.3                      | 240                          | 1.6             | 905.160.201 | 050.450.155 |
| Fluid hose - F1/2" fitting          | 9.52                     | 425                          | 10              | 905.160.201 | 76085       |
| Whip end fluid- F1/2" fitting       | 6.3                      | 450                          | 1.6             | 905.160.201 | 050.450.951 |
| Fluid hose phosphor - F1/2" fitting | 9.52                     | 425                          | 14              | 905.160.201 | 76842       |

## AIRLESS spray guns accessories

**REVERSIBLE MANIFOLD FOR Sflow™**

- Select the reversible manifold and its dedicated Tip Top tips for high working cadency. Thanks to the reversible system you can save time. Extremely quick unplugging without any tool. Its easy to change tips without removing the manifold.

**TIP GUARDS FOR REVERSIBLE TIPS**

| Description                          | Fitting | Tightening type | Part number |
|--------------------------------------|---------|-----------------|-------------|
| Reversible Manifold for Tip Top tips | M25x175 | manual          | 132.740.200 |

**REVERSIBLE TIP TOP TIPS**

- Based on Sames Kremlin's protocole, every single tip is unitary tested. With the selection of best quality material, the tips have the longest lifetime. Fast cleaning of plugged tip and fast tip changes.

| Description                                  | Part number |
|----------------------------------------------|-------------|
| TIP TOP reversible tip XX-XX                 | 000.40X.XXX |
| Pack of 10 seals for reversible TIP TOP tips | 134.740.007 |
| Servicing kit (seat (x4) and seals (x4))     | 129.740.907 |

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

To obtain tip part number, replace the crosses by the engraved tip number preceded by 000.40X.XXX. Example: use part number 000.402.513 to obtain Tip n°25.13.

We recommend tips

- from 04 to 14 for industry
- from 18 to 40 for anti-corrosion
- from 45 to 100 for high viscosity

| Fan width                 |                                | 12/16 cm     | 17/21 cm     | 22/<br>24.5 cm | 25/29 cm     | 29/33 cm     | 33/37 cm     | 38/44 cm     | 138 bar<br>2,002 psi |
|---------------------------|--------------------------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|----------------------|
| Angle                     |                                | 20°          | 30°          | 40°            | 50°          | 60°          | 70°          | 80°          |                      |
| Water<br>output<br>70 bar | Ø Orifice<br>(inch)<br>Caliber | 2XX<br>XX-07 | 3XX<br>XX-09 | 4XX<br>XX-11   | 5XX<br>XX-13 | 6XX<br>XX-15 | 7XX<br>XX-17 | 8XX<br>XX-19 | Output in<br>water   |
| 0.22 l/mn                 | 0.009                          | 209          | 309          | 409            | 509          |              |              |              | 0.33 l/mn            |
|                           | 04                             | 04-07        | 04-09        | 04-11          | 04-13        |              |              |              |                      |
| 0.33 l/mn                 | 0.011                          | 211          | 311          | 411            | 511          | 611          |              |              | 0.49 l/mn            |
|                           | 06                             | 06-07        | 06-09        | 06-11          | 06-13        | 06-15        |              |              |                      |
| 0.45 l/mn                 | 0.013                          | 213          | 313          | 413            | 513          | 613          | 713          |              | 0.69 l/mn            |
|                           | 09                             | 09-07        | 09-09        | 09-11          | 09-13        | 09-15        | 09-17        |              |                      |
| 0.60 l/mn                 | 0.015                          | 215          | 315          | 415            | 515          | 615          | 715          |              | 0.91 l/mn            |
|                           | 12                             | 12-07        | 12-09        | 12-11          | 12-13        | 12-15        | 12-17        |              |                      |
| 0.72 l/mn                 | 0.017                          | 217          | 317          | 417            | 517          | 617          | 717          | 817          | 1.17 l/mn            |
|                           | 14                             | 14-07        | 14-09        | 14-11          | 14-13        | 14-15        | 14-17        | 14-19        |                      |
| 0.95 l/mn                 | 0.019                          | 219          | 319          | 419            | 519          | 619          | 719          | 819          | 1.47 l/mn            |
|                           | 18                             | 18-07        | 18-09        | 18-11          | 18-13        | 18-15        | 18-17        | 18-19        |                      |
| 1.33 l/mn                 | 0.021                          |              |              | 421            | 521          | 621          | 721          | 821          | 1.79 l/mn            |
|                           | 25                             |              |              | 25-11          | 25-13        | 25-15        | 25-17        | 25-19        |                      |
| 1.6 l/mn                  | 0.023                          |              |              | 423            | 523          | 623          | 723          | 823          | 2.15 l/mn            |
|                           | 30                             |              |              | 30-11          | 30-13        | 30-15        | 30-17        | 30-19        |                      |
| 2.175 l/mn                | 0.025                          |              |              | 425            | 525          | 625          | 725          | 825          | 2.54 l/mn            |
|                           | 40                             |              |              | 40-11          | 40-13        | 40-15        | 40-17        | 40-19        |                      |
| 2.38 l/mn                 | 0.029                          |              | 329          | 429            | 529          | 629          | 729          | 829          | 3.42 l/mn            |
|                           | 45                             |              | 45-09        | 45-11          | 45-13        | 45-15        | 45-17        | 45-19        |                      |
| 3.78 l/mn                 | 0.033                          |              |              | 433            | 533          | 633          | 733          | 833          | 4.42 l/mn            |
|                           | 68                             |              |              | 68-11          | 68-13        | 68-15        | 68-17        | 68-19        |                      |
| 5.11 l/mn                 | 0.036                          |              |              |                | 539          | 639          | 739          | 839          | 5.42 l/mn            |
|                           | 100                            |              |              |                | 100-13       | 100-15       | 100-17       | 100-19       |                      |

## FLAT MANIFOLD FOR SFLOW™

- Select the flat manifold for two kinds of tips, standard airless tips for high precision and performance and double-insert SKILL tips for air consumption reduction and easy cleaning.



## FLAT MANIFOLD FOR STANDARD AND SKILL TIPS

| Description                                      | Fitting | Tightening type | Part number |
|--------------------------------------------------|---------|-----------------|-------------|
| Flat Manifold for flat tips (standard and SKILL) | M25x125 | Manual          | 132.740.100 |

## FLAT TIPS

Flat tips ensure high precision and performance; The choice of the tip must be done according to the desired flowrate in order to achieve a good finish and reduce paint costs. An AIRLESS tip needs to be replaced frequently in order to maintain the original transfer efficiency.

Part number: 0000XX.XX (replace of the X by the number read on the table).

## FLAT TIPS

| Size | Equivalent diameter (in mm-thousandth inches) | Fluid output at 140 bar (l/mn) | Tip Diaphragm | Handle filter (MESH) | Angle                      | 18°   | 30°   | 40°   | 50°   | 60°   | 67°   | 75°   | 82°   | 88°   | 94°   |
|------|-----------------------------------------------|--------------------------------|---------------|----------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      |                                               |                                |               |                      | Width of fan at 25 cm      | 8     | 13    | 18    | 23    | 28    | 33    | 38    | 43    | 48    | 53    |
| 03   | 0.18/0.007                                    | 0.23                           | 09            | red (200)            | Number engraved on the tip | 03.03 | 03.05 | 03.07 |       |       |       |       |       |       |       |
| 04   | 0.23/0.009                                    | 0.31                           | 09            | red (200)            |                            | 04.03 | 04.05 | 04.07 | 04.09 | 04.11 | 04.13 |       |       |       |       |
| 06   | 0.28/0.011                                    | 0.46                           | 12            | blue (150)           |                            | 06.03 | 06.05 | 06.07 | 06.09 | 06.11 | 06.13 | 06.15 |       |       |       |
| 09   | 0.33/0.013                                    | 0.63                           | 15            | blue (150)           |                            | 09.05 | 09.05 | 09.07 | 09.09 | 09.11 | 09.13 | 09.15 | 09.17 |       |       |
| 12   | 0.38/0.015                                    | 0.86                           | 15            | blue (150)           |                            |       |       | 12.07 | 12.09 | 12.11 | 12.13 | 12.15 | 12.17 | 12.19 |       |
| 14   | 0.41/0.016                                    | 1.01                           | 18            | blue (150)           |                            |       | 14.05 | 14.07 | 14.09 | 14.11 | 14.13 | 14.15 | 14.17 | 14.19 |       |
| 18   | 0.46/0.018                                    | 1.34                           | 18            | yellow (100)         |                            |       |       |       | 18.09 | 18.11 | 18.13 | 18.15 | 18.17 | 18.19 |       |
| 20   | 0.51/0.020                                    | 1.50                           | 20            | yellow (100)         |                            |       | 20.05 | 20.07 | 20.09 | 20.11 | 20.13 | 20.15 | 20.17 | 20.19 |       |
| 25   | 0.55/0.021                                    | 1.77                           | 20            | yellow (100)         |                            |       |       |       |       | 25.11 | 25.13 | 25.15 | 25.17 | 25.19 |       |
| 30   | 0.61/0.024                                    | 2.25                           | 25            | yellow (100)         |                            |       |       | 30.07 | 30.09 | 30.11 | 30.13 | 30.15 | 30.17 | 30.19 |       |
| 40   | 0.66/0.026                                    | 2.80                           | 25            | white (50)           |                            |       |       |       |       | 40.11 | 40.13 | 40.15 | 40.17 | 40.19 |       |
| 45   | 0.74/0.029                                    | 3.34                           | 33            | white (50)           |                            |       |       | 45.07 |       | 45.11 | 45.13 | 45.15 | 45.17 | 45.19 | 45.21 |
| 68   | 0.91/0.036                                    | 5.30                           | 33            | white (50)           |                            |       |       |       |       | 68.11 | 68.13 | 68.15 | 68.17 | 68.19 |       |



**DOUBLE-INSERT SKILL TIPS**

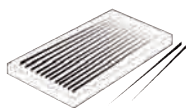
With its design, the SKILL tips offers high quality finish with lower air consumption and easy cleaning. To build your part number: 000.20X.XXX (replace the X by the number read on the table).

**SKILL TIPS**

| Equivalent angle, practical                  |                         |              |                          |              | 25°   | 35°   | 40°   | 50°   | 55°   | 65°   | 70°   | 80°   | 90°  |
|----------------------------------------------|-------------------------|--------------|--------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Fan width identification - spray tip marking |                         |              |                          |              | 05    | 07    | 09    | 11    | 13    | 15    | 17    | 19    | 21   |
| Minimum fan width in inches @ 10'            |                         |              |                          |              | 3.1   | 4.9   | 6.7   | 8.7   | 9.8   | 11.4  | 13.0  | 15.0  | 17.3 |
| Minimum fan width in cm @ 25.4 cm            |                         |              |                          |              | 8.0   | 12.5  | 17.0  | 22.0  | 25.0  | 29.0  | 33.0  | 38.0  | 44.0 |
| Maximum fan width in inches @ 10'            |                         |              |                          |              | 4.3   | 6.3   | 8.3   | 9.6   | 11.4  | 13.0  | 14.6  | 17.3  | 22.0 |
| Maximum fan width in cm @ 25.4 cm            |                         |              |                          |              | 11.0  | 16.0  | 21.0  | 24.5  | 29.0  | 33.0  | 37.0  | 44.0  | 56.0 |
| Tip<br>caliber                               | Fluid output in water   |              |                          |              |       |       |       |       |       |       |       |       |      |
|                                              | at 70 bar<br>(1015 psi) |              | at 138 bar<br>(2000 psi) |              |       |       |       |       |       |       |       |       |      |
| Sames<br>Kremlin                             | in cc/<br>mn            | in oz/<br>mn | in cc/<br>mn             | in oz/<br>mn |       |       |       |       |       |       |       |       |      |
| 03                                           | 150                     | 5.1          | 250                      | 8.5          | 03.07 | 03.09 | 03.11 | 03.13 |       |       |       |       |      |
| 04                                           | 220                     | 7.5          | 330                      | 11.2         | 04.07 | 04.09 | 04.11 | 04.13 |       |       |       |       |      |
| 06                                           | 330                     | 11.2         | 490                      | 16.7         | 06.07 | 06.09 | 06.11 | 06.13 | 06.15 |       |       |       |      |
| 07                                           | 390                     | 13.3         | 600                      | 20.4         | 07.05 | 07.07 | 07.09 | 07.11 | 07.13 | 07.15 |       |       |      |
| 09                                           | 450                     | 15.3         | 690                      | 23.5         | 09.07 | 09.09 | 09.11 | 09.13 | 09.15 | 09.17 |       |       |      |
| 12                                           | 600                     | 20.4         | 910                      | 30.9         |       |       |       |       | 12.13 | 12.15 | 12.17 |       |      |
| 14                                           | 720                     | 24.5         | 1170                     | 39.8         |       |       |       |       | 14.13 | 14.15 | 14.17 | 14.19 |      |
| 18                                           | 950                     | 32.3         | 1470                     | 50.0         |       |       |       |       | 18.13 | 14.15 | 18.17 | 18.19 |      |

**HANDLE****SWIVEL FITTINGS**

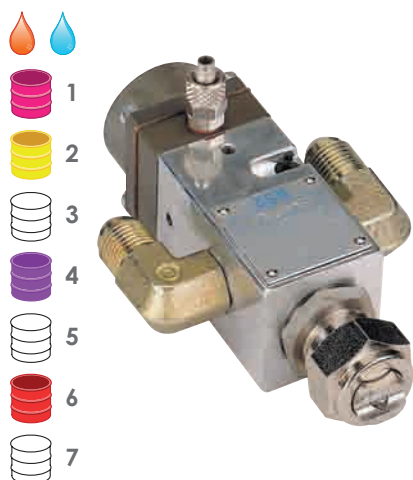
| Description                                  | Thread                 | Part number |
|----------------------------------------------|------------------------|-------------|
| Swivel fitting, model F 1/2 JIC - M 1/2 JIC  | F 1/2 JIC - M 1/2 JIC  | 129.670.405 |
| Swivel fitting, model F 1/2 JIC - M 1/4 NPSM | F 1/2 JIC - M 1/4 NPSM | 129.670.415 |
| Handle fitting, model F 1/2 JIC - M 1/4 NPSM | F 1/2 JIC - M 1/4 NPSM | 050.123.304 |

**UNPLUGGING NEEDLES FOR FLAT TIPS****UNPLUGGING NEEDLES FOR FLAT TIPS**

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

## AIRLESS AS2 Spray Gun - stainless steel

Very compact gun with possibility of circulation



### FEATURES

Miniature size  
Wide range of AIRLESS® tips  
Lightweight design

### BENEFITS

Great for small systems with size restrictions  
Provides many patterns choices  
Makes it possible to mount more guns on a reciprocator without exceeding the weight limit

### SPECIFICATIONS

|                                |                 |
|--------------------------------|-----------------|
| Maximum fluid pressure (bar)   | 120             |
| Fluid flow rate (l/mn)         | upon Tips       |
| Weight (g) (gun only)          | 250             |
| Maximum Fluid Temperature (°C) | 50              |
| Body of the gun                | Aluminium       |
| Wetted parts                   | Stainless steel |
| Seat                           | Carbide         |

### FITTINGS

|              |            |                        |
|--------------|------------|------------------------|
| Power supply | Gun        | Fitting                |
| Fluid        | F 1/8" NPS | M 1/8" NPT - M 1/2 JIC |
| Control air  | F M5       | M M5 - Hose 4 x 6      |

### CONFIGURATION OF THE AS2 AIRLESS GUN

| Description                           | Part number           |
|---------------------------------------|-----------------------|
| AIRLESS AS 2 w/o tip                  | 135.972.001           |
| AIRLESS tips                          | See table pages 23-24 |
| Mounting support (Ø12 - length 70 mm) | 049.351.600           |

# NOTES

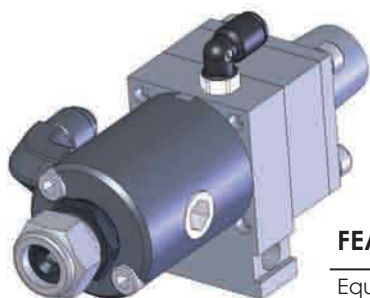
Notes area with horizontal dashed lines for writing.

Airless spraying

Plural component pumps and machines

Fittings and air treatment

# AIRLESS ASI 24 and 40 Spray Guns - stainless steel



High output.

## FEATURES

Equipped with 2 fluid inlets

No spring in the fluid passages

Large choice of tips

## BENEFITS

Allows for circulation and saves money by eliminating the need for a 2-way valve on color or flushing

Saves time and money by making it easier to clean, faster color changes and less maintenance

To fit each customer need

## SPECIFICATIONS

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Trigger air pressure (bar mini) | 4 (ASI 24)<br>5.5 (ASI 40)                     |
| Maximum fluid pressure (bar)    | 240 (ASI 24)<br>400 (ASI 40)                   |
| Fluid output (cc/mn)            | Upon tips                                      |
| Weight (g) (gun only)           | 700                                            |
| Maximum Fluid Temperature (°C)  | 50                                             |
| Body of the gun                 | Stainless steel                                |
| Wetted parts                    | Stainless steel, treated stainless steel, PTFE |
| Seat                            | Carbide                                        |

## FITTINGS

| Power supply            | Gun        | Fitting                         |
|-------------------------|------------|---------------------------------|
| Fluid ASI 24 and ASI 40 | F 1/4" NPS | Elbow M 1/4" NPT - M 1/2 JIC    |
| Control air             | F 1/8" BSP | Elbow - M 1/8" BSP - Hose 4 x 6 |

## PART NUMBERS

| Description            | Part number |
|------------------------|-------------|
| AIRLESS ASI 24 w/o tip | 129.980.000 |
| AIRLESS ASI 40 w/o tip | 129.980.500 |
| AIRLESS tips           | (1)         |
| Mounting support Ø 16  | 049.351.000 |

(1) to be ordered separately in the table of tips pages 23-24

## REPAIR KIT

| Description | Part number |
|-------------|-------------|
| Repair kit  | 129.980.901 |

## REVERSIBLE MANIFOLD FOR ASI

- Select the reversible manifold and its dedicated Tip Top tips for high working cadency. Thanks to the reversible system you can save time. Extremely quick unplugging without any tool. Its easy to change tips without removing the manifold.

## TIP GUARDS FOR REVERSIBLE TIPS

| Description                     | Fitting                 | Tightening type | Part number                |
|---------------------------------|-------------------------|-----------------|----------------------------|
| Adaptator for Automatic ASI gun | 13-16-20 UNEF - M25x175 | Manual          | 129.740.074                |
| Adaptator for Automatic ASI gun | M25x175                 | Manual          | 132.740.200                |
| Tip Top reversible tip XX-XX    |                         |                 | 000.40X.XXX<br>(see table) |

## Automatic AIRLESS spray guns accessories

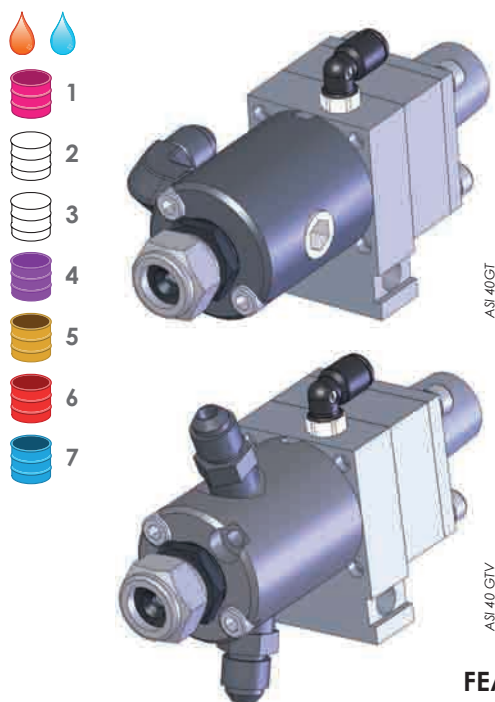
**DIAPHRAGMS FOR AIRLESS ASI 24 AND 40**

Diaphragm has to be chosen depending on nozzle diameter. it increases atomization quality.

**PART NUMBERS**

| Description                      | Nozzle  | Part number |
|----------------------------------|---------|-------------|
| Diaphragm 12                     | 03 - 06 | 000.029.112 |
| Diaphragm 15                     | 09 - 12 | 000.029.115 |
| Diaphragm 18                     | 14 - 18 | 000.029.118 |
| Diaphragm 20                     | 20      | 000.029.120 |
| Diaphragm 25                     | 30      | 000.029.125 |
| Diaphragm 60 - standart mounting | -       | 000.029.160 |
| Fixing nut for the tip           |         | 000.152.290 |

# AIRLESS ASI 40 GT and ASI 40 GTV Spray Guns - stainless steel



● ASI40 GT, Sames Kremlin original design for abrasive HS (high solids) materials.

● ASI40 GT V, unique Sames Kremlin design for UV materials difficult to flush. Fluid sections with circulation, straight fittings to prevent any material deposit on the GT cartridge and perfect flushing for an increased life time.

Option to position the product inlet on the side or underneath by rotating the front of the gun. Tip mounting without any seal (stainless steel on stainless steel).

AIRLESS spraying = High power preventing any needle blockage and suited for a wide range of products.

## FEATURES

Fitted with a GT cartridge  
Small ball needle  
Simple and unique design (separated small ball needle and cartridge)  
Large choice of tips  
400 bar spring

## BENEFITS

Strong resistance to very abrasive UV and HS materials for an improved reliability  
For an improved laminar fluid passage  
Very easy to service  
Recommended for large fluid outputs and very high viscosity material applications  
Strong power reducing any needle blockage

## SPECIFICATIONS

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Trigger air pressure (bar mini) | 5.5                                            |
| Maximum fluid pressure (bar)    | 400                                            |
| Fluid output (cc/mn)            | Upon Tip                                       |
| Weight (g) (gun only)           | 700                                            |
| Maximum Fluid Temperature (°C)  | 50                                             |
| Body of the gun                 | Stainless steel                                |
| Wetted parts                    | Stainless steel, treated stainless steel, PTFE |
| Seat                            | Carbide                                        |

## FITTINGS

| Power supply     | Gun        | Fittings                           |
|------------------|------------|------------------------------------|
| Fluid ASI 40 GT  | F 1/4" NPS | Elbow - M 1/4" NPT - M 1/2 JIC     |
| Fluid ASI 40 GTV | F 1/4" NPS | Droit - 2 x M 1/4" NPT - M 1/2 JIC |
| Control air      | F 1/8" BSP | Elbow - M 1/8" BSP - Hose 4 x 6    |

## PART NUMBERS

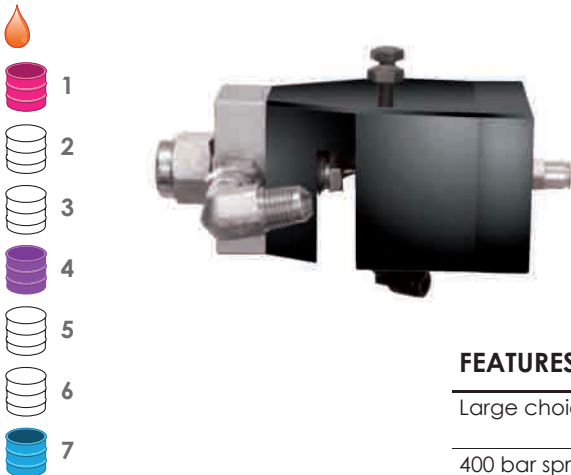
| Description            | Part number           |
|------------------------|-----------------------|
| AIRLESS ASI 40 GT Gun  | 129.980.600           |
| AIRLESS ASI 40 GTV Gun | 129.980.650           |
| AIRLESS tips           | See table pages 23-24 |
| Mounting support Ø 16  | 049.351.000           |

## REPAIR KIT

| Description | Part number |
|-------------|-------------|
| Repair kit  | 129.980.901 |

# AIRLESS Guns

AIRLESS spraying for reduced overspray: can also be used as shutdown valve on a high pressure network.



## FEATURES

Large choice of tips  
400 bar spring

## BENEFITS

Recommended for large fluid outputs and very high viscosity material applications  
Strong power reducing any needle blockage

## SPECIFICATIONS

|                                 |                          |
|---------------------------------|--------------------------|
| Trigger air pressure (bar mini) | 5.5                      |
| Maximum fluid pressure (bar)    | 400                      |
| Fluid output (cc/mn)            | Upon Tip                 |
| Weight (g) (gun only)           | 585                      |
| Maximum Fluid Temperature (°C)  | 50                       |
| Body of the gun                 | Aluminium                |
| Wetted parts                    | Steel or Stainless steel |
| Seat                            | Carbide                  |

## FITTINGS

|                  |                                 |
|------------------|---------------------------------|
| Power supply     | Fittings                        |
| Fluid            | Straight - M 1/8" G - M 1/2 JIC |
| Control air      | Elbow - 2.7 x 4 hose            |
| Mounting support | On Ø 12,5 mm tube               |

## AIRLESS GUN STAINLESS STEEL

| Description                           | Part number |
|---------------------------------------|-------------|
| AIRLESS automatic gun stainless steel | 151.120.300 |
| AIRLESS tips                          | (1)         |

(1) To be ordered separately - see table pages 23-24 - Please note that the Skill tips cannot be used with this gun

## REPAIR KIT

| Description | Part number |
|-------------|-------------|
| Repair kit  | 101.331     |

## ADAPTATION PART

| Description                                                                    | Type                 | Part number |
|--------------------------------------------------------------------------------|----------------------|-------------|
| Male adaptation part to be mounted at the front of the gun                     | M 1/8" G conical     | 203.948     |
| Female adaptation part (steel) to be mounted at the front of the gun           | M 1/4" G cylindrical | 630.649     |
| Female adaptation part (stainless steel) to be mounted at the front of the gun | M 1/4" G cylindrical | 203.033     |
| Male adaptation part (steel) to be mounted at the front of the gun             | F 10 x 100           | 630.647     |

## Automatic AIRLESS spray guns accessories

### TIP FILTER AND DIAPHRAGMS FOR AIRLESS GUNS

Diaphragm has to be chosen depending on nozzle diameter. it increases atomization quality.

#### TIP FILTER (TO BE MOUNTED AT THE FRONT OF THE GUN)

| Description                                              | Thread, retaining nut   | Part number |
|----------------------------------------------------------|-------------------------|-------------|
| Tip filter non stainless steel (screen 160 mesh - 95 µ)  | F 11/16" G - M 11/16" G | 101.576     |
| Tip filter non stainless steel (screen 100 mesh - 150 µ) | F 11/16" G - M 11/16" G | 101.579     |

#### FILTRATION SCREEN

| Description                                        | Part number |
|----------------------------------------------------|-------------|
| Screen filtrant Stainless steel - 50 mesh (300 µ)  | 625.218     |
| Screen filtrant Stainless steel - 100 mesh (150 µ) | 625.212     |
| Screen filtrant Stainless steel - 160 mesh (95 µ)  | 625.216     |
| Pack of 4 filter seals                             | 107.021     |

#### DIAPHRAGMS (TO BE MOUNTED AT THE FRONT OF THE GUN)

| Description    | Nozzle  | Part number |
|----------------|---------|-------------|
| Pre-orifice 09 | 03 - 04 | 500.109     |
| Pre-orifice 11 | 06      | 500.111     |
| Pre-orifice 13 | 09      | 500.113     |
| Pre-orifice 16 | 12 - 14 | 500.116     |
| Tip fixing nut | -       | 630.634     |



### FLAT TIPS

Flat tips ensure high precision and performance; The choice of the tip must be done according to the desired flowrate in order to achieve a good finish and reduce paint costs. An AIRLESS tip needs to be replaced frequently in order to maintain the original transfer efficiency.

Part number: 00000 XX.XX (replace of the X by the number read on the table).

#### FLAT TIPS

| Size | Equivalent diameter (in mm-thousandth inches) | Fluid output at 140 bar (l/mn) | Tip Diaphragm | Handle filter (MESH) | Angle                      | 18°   | 30°   | 40°   | 50°   | 60°   | 67°   | 75°   | 82°   | 88°   | 94°   |
|------|-----------------------------------------------|--------------------------------|---------------|----------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      |                                               |                                |               |                      | Width of fan at 25 cm      | 8     | 13    | 18    | 23    | 28    | 33    | 38    | 43    | 48    | 53    |
| 03   | 0.18/0.007                                    | 0.23                           | 09            | red (200)            | Number engraved on the tip | 03.03 | 03.05 | 03.07 |       |       |       |       |       |       |       |
| 04   | 0.23/0.009                                    | 0.31                           | 09            | red (200)            |                            | 04.03 | 04.05 | 04.07 | 04.09 | 04.11 | 04.13 |       |       |       |       |
| 06   | 0.28/0.011                                    | 0.46                           | 12            | blue (150)           |                            | 06.03 | 06.05 | 06.07 | 06.09 | 06.11 | 06.13 | 06.15 |       |       |       |
| 09   | 0.33/0.013                                    | 0.63                           | 15            | blue (150)           |                            | 09.05 | 09.05 | 09.07 | 09.09 | 09.11 | 09.13 | 09.15 | 09.17 |       |       |
| 12   | 0.38/0.015                                    | 0.86                           | 15            | blue (150)           |                            |       |       | 12.07 | 12.09 | 12.11 | 12.13 | 12.15 | 12.17 | 12.19 |       |
| 14   | 0.41/0.016                                    | 1.01                           | 18            | blue (150)           |                            |       | 14.05 | 14.07 | 14.09 | 14.11 | 14.13 | 14.15 | 14.17 | 14.19 |       |
| 18   | 0.46/0.018                                    | 1.34                           | 18            | yellow (100)         |                            |       |       |       | 18.09 | 18.11 | 18.13 | 18.15 | 18.17 | 18.19 |       |
| 20   | 0.51/0.020                                    | 1.50                           | 20            | yellow (100)         |                            |       | 20.05 | 20.07 | 20.09 | 20.11 | 20.13 | 20.15 | 20.17 | 20.19 |       |
| 25   | 0.55/0.021                                    | 1.77                           | 20            | yellow (100)         |                            |       |       |       |       | 25.11 | 25.13 | 25.15 | 25.17 | 25.19 |       |
| 30   | 0.61/0.024                                    | 2.25                           | 25            | yellow (100)         |                            |       |       | 30.07 | 30.09 | 30.11 | 30.13 | 30.15 | 30.17 | 30.19 |       |
| 40   | 0.66/0.026                                    | 2.80                           | 25            | white (50)           |                            |       |       |       |       | 40.11 | 40.13 | 40.15 | 40.17 | 40.19 |       |
| 45   | 0.74/0.029                                    | 3.34                           | 33            | white (50)           |                            |       |       | 45.07 |       | 45.11 | 45.13 | 45.15 | 45.17 | 45.19 | 45.21 |
| 68   | 0.91/0.036                                    | 5.30                           | 33            | white (50)           |                            |       |       |       |       | 68.11 | 68.13 | 68.15 | 68.17 | 68.19 |       |



**CONICAL TIPS**

Conical tips for direct mounting on manual and automatic guns.

**CONICAL TIPS**

| Equivalent diameter (in mm-thousandth inches) | Fluid output at 140 bar (l/mn) | Handle filter (MESH) | Angle | 21°     | 28°     | 36°     | 60°     |
|-----------------------------------------------|--------------------------------|----------------------|-------|---------|---------|---------|---------|
| 0.71/0.028                                    | 0.9                            | yellow (100)         | TC2   | 500.002 |         |         |         |
| 0.71/0.028                                    | 1.4                            | yellow (100)         | TC3   |         | 500.003 |         |         |
| 1.06/0.42                                     | 1.8                            | white (50)           | TC4   |         |         | 500.004 |         |
| 1.52/0.60                                     | 4.2                            | white (50)           | TC9   |         |         |         | 500.009 |

**ADJUSTABLE FAN TIPS**

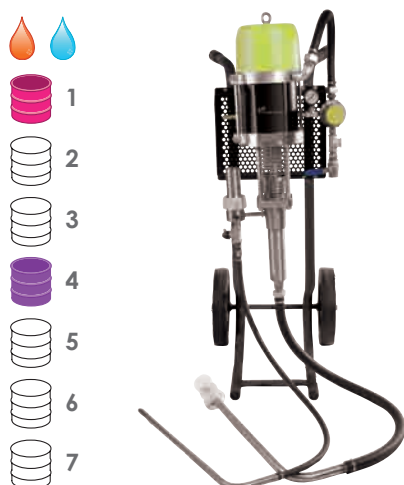
Adjustable fan tips provide a simultaneous adjustment of fan width and output.

**ADJUSTABLE FAN TIPS**

| Orifice diameter (mm) | Flat tip equivalent caliber (mini-maxi) | Flowrate (water)(l/mn) | Part number |
|-----------------------|-----------------------------------------|------------------------|-------------|
| 0.18 - 0.41           | 03 - 14                                 | 0.23 - 1.1             | 254.020     |
| 0.28 - 0.51           | 06 - 20                                 | 0.46 - 1.5             | 000.000.620 |
| 0.41 - 0.91           | 14 - 68                                 | 1.1 - 5.3              | 000.001.468 |

# AIRLESS 40C50 paint pump - stainless steel

Ideal for outputs up to 1.5 litre/mn.



## FEATURES

Large diameter suction rod and high compression ratio  
Stainless steel design  
Simple design , reduced number of spare parts

## BENEFITS

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

## SPECIFICATIONS

|                                                              |                                |
|--------------------------------------------------------------|--------------------------------|
| Pressure ratio                                               | 40/1                           |
| Fluid volume per cycle (cm <sup>3</sup> )                    | 50                             |
| Number of cycles per litre of products                       | 20                             |
| Fluid Output at 30 cycles/mn (l/mn)                          | 1.5                            |
| Air consumption (m <sup>3</sup> /h) at 30 cycles/mn at 4 bar | 21.6                           |
| Free flow rate (L/mn)                                        | 3                              |
| Maximum air inlet pressure (bar)                             | 6                              |
| Maximum fluid pressure (bar)                                 | 240                            |
| Maximum Fluid Temperature (°C)                               | 60                             |
| Sound level (dBA)                                            | 77                             |
| Sealing Packings                                             | Upper sealing<br>Lower sealing |
|                                                              | Polyfluid + PTFE G<br>GT seal  |
| Wetted parts                                                 | Stainless steel                |
| Weight (kg) - wall-mounted                                   | 22                             |
| Height (cm)                                                  | 80                             |
| Width (cm)                                                   | 40                             |
| Depth (cm)                                                   | 28                             |

## FITTINGS

|         |                       |            |
|---------|-----------------------|------------|
| Fitting | Air inlet (valve)     | F 3/4" BSP |
|         | Fluid Inlet           | M 26x125   |
|         | Fluid output (filter) | M 1/2" JIC |

## CONFIGURATION OF THE AIRLESS 40C50 PAINT PUMP - STAINLESS STEEL

| Set-up              | Suction rod (Ø 25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|---------------------|--------------------|-----------|------------------------------|--------------------|-------------|
| Wall mounted        | -                  | -         | ●                            | -                  | 151.775.050 |
| Wall mounted        | ●                  | -         | ●                            | -                  | 151.775.100 |
| Wall mounted        | -                  | ●         | ●                            | ●                  | 151.775.150 |
| Wall mounted        | ●                  | ●         | ●                            | ●                  | 151.775.200 |
| 2 arms cart mounted | ●                  | ●         | ●                            | ●                  | 151.775.400 |

## KITS

| Description                     | Part number |
|---------------------------------|-------------|
| GT seal kit                     | 144.950.091 |
| GT repair kit                   | 144.950.096 |
| Seal kit for 1000-4 air motor   | 146.270.991 |
| Repair kit for 1000-4 air motor | 146.270.995 |

## CARTS AND RODS (SUCTION AND FLUSHING)

| Description                                                                 | Part number |
|-----------------------------------------------------------------------------|-------------|
| Two Post Cart w/o plate                                                     | 051.221.000 |
| Two Post Pump Mounting Plate                                                | 056.100.199 |
| Easyflow suction rod Ø25 plunging tube length 600 mm                        | 149.596.150 |
| Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums) | 149.596.160 |
| Stainless steel flushing rod F18 x 125                                      | 049.596.000 |
| Filter                                                                      | 155.580.400 |

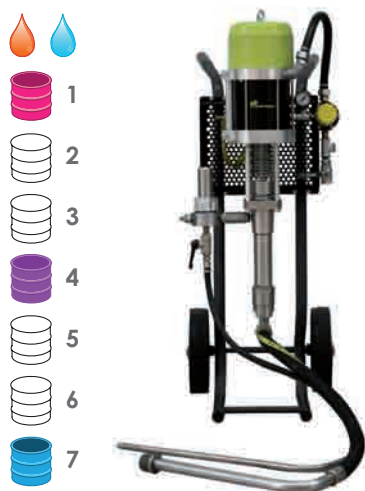


## AIRLESS 40C50 MOBILE PAINT PUMP READY TO SPRAY EQUIPED WITH SWIVEL FITTING SLOW™ GUN

| Kit designation                | Gun type        | Tip guard  | Tip                 | Suction rod (Ø 25) | Drain rod | Hoses * Length (m) | Pump output filter | Part number |
|--------------------------------|-----------------|------------|---------------------|--------------------|-----------|--------------------|--------------------|-------------|
| Mobile pump with SLOW™ gun kit | SFLOW™ 275 (2F) | Reversible | Tip Top 12-13 (515) | ●                  | ●         | 1.6 + 7.5          | ●                  | 151.265.105 |

# AIRLESS 40C50 WB paint pump - stainless steel

Recommended for high viscosity products such as water-based and high solid paints. Ideal for outputs up to 1.5 litre/mn.



## FEATURES

|                                               |
|-----------------------------------------------|
| Large suction fluid passage                   |
| Puls-Absorber™ device                         |
| Stainless steel design                        |
| Stainless steel strainer                      |
| Simple design , reduced number of spare parts |

## BENEFITS

|                                        |
|----------------------------------------|
| For high viscosity materials           |
| Stable and smooth flow                 |
| Compatible with water-based products   |
| Long service life and good reliability |
| No crushing possible                   |
| Easy maintenance                       |

## SPECIFICATIONS

|                                                 |                                                             |
|-------------------------------------------------|-------------------------------------------------------------|
| Pressure ratio                                  | 40/1                                                        |
| Fluid volume per cycle (cm³)                    | 50                                                          |
| Number of cycles per litre of products          | 20                                                          |
| Fluid Output at 30 cycles/mn (l/mn)             | 1.5                                                         |
| Air consumption (m³/h) at 30 cycles/mn at 4 bar | 21.6                                                        |
| Free flow rate (L/mn)                           | 3                                                           |
| Maximum air inlet pressure (bar)                | 6                                                           |
| Maximum fluid pressure (bar)                    | 240                                                         |
| Maximum Fluid Temperature (°C)                  | 60                                                          |
| Sound level (dBA)                               | 77                                                          |
| Sealing Packings                                | Upper sealing: Polyfluid + PTFE G<br>Lower sealing: GT seal |
| Wetted parts                                    | Stainless steel                                             |
| Weight (kg) - wall-mounted                      | 22                                                          |
| Height (cm)                                     | 92                                                          |
| Width (cm)                                      | 40                                                          |
| Depth (cm)                                      | 28                                                          |

## FITTINGS

|         |                                         |            |
|---------|-----------------------------------------|------------|
| Fitting | Air inlet (valve)                       | F 3/4" BSP |
|         | Air outlet (option atomization air kit) | M 1/4" NPS |
|         | Fluid Inlet                             | M 1" G     |
|         | Fluid output (filter)                   | M 1/2" JIC |

## CONFIGURATION OF THE AIRLESS 40C50 WB PAINT PUMP - STAINLESS STEEL

| 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 |

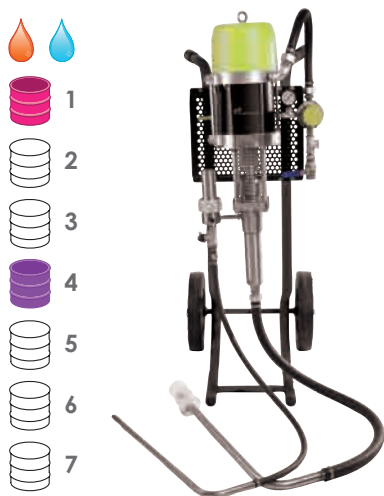
## KITS

| 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 |

## CARTS AND RODS (SUCTION AND FLUSHING)

| Description                            | Part number |
|----------------------------------------|-------------|
| Two Post Cart w/o plate                | 051.221.000 |
| Two Post Pump Mounting Plate           | 056.100.199 |
| Suction rod 1"                         | 921.270.101 |
| Stainless steel flushing rod F18 x 125 | 049.596.000 |
| Filter                                 | 155.581.450 |

# AIRLESS 40C100 paint pump - stainless steel



Ideal for feeding two guns.

## FEATURES

Simple design, reduced number of spare parts  
Large diameter suction rod and high compression ratio

## BENEFITS

Easy maintenance  
Can be used with a wide range of materials

## SPECIFICATIONS

|                                                              |                                                                    |
|--------------------------------------------------------------|--------------------------------------------------------------------|
| Pressure ratio                                               | 40/1                                                               |
| Fluid volume per cycle (cm <sup>3</sup> )                    | 100                                                                |
| Number of cycles per litre of products                       | 10                                                                 |
| Fluid Output at 30 cycles/mn (l/mn)                          | 3                                                                  |
| Free flow rate (L/mn)                                        | 6                                                                  |
| Air consumption (m <sup>3</sup> /h) at 30 cycles/mn at 4 bar | 43.2                                                               |
| Maximum air inlet pressure (bar)                             | 6                                                                  |
| Maximum fluid pressure (bar)                                 | 240                                                                |
| Maximum Fluid Temperature (°C)                               | 60                                                                 |
| Sound level (dBA)                                            | 80                                                                 |
| Sealing Packings                                             | Upper sealing<br>Polyfluid + PTFE G<br>Lower sealing<br>GT sealing |
| Wetted parts                                                 | Stainless steel                                                    |
| Weight (kg) - wall-mounted                                   | 22                                                                 |
| Height (cm)                                                  | 80                                                                 |
| Width (cm)                                                   | 40                                                                 |
| Depth (cm)                                                   | 28                                                                 |

## FITTINGS

|         |                                         |            |
|---------|-----------------------------------------|------------|
| Fitting | Air inlet (valve)                       | F 3/4" BSP |
|         | Air outlet (option atomization air kit) | M 1/4" NPS |
|         | Fluid Inlet                             | M 26 x 125 |
|         | Fluid output (filter)                   | M 1/2" JIC |

## CONFIGURATION OF THE AIRLESS 40C100 PAINT PUMP - STAINLESS STEEL

| Set-up              | Suction rod (Ø 25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|---------------------|--------------------|-----------|------------------------------|--------------------|-------------|
| 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 |

## KITS

| Description                     | Part number |
|---------------------------------|-------------|
| GT seal kit                     | 144.960.091 |
| GT repair kit                   | 144.960.096 |
| Seal kit for 2000-4 air motor   | 146.270.990 |
| Repair kit for 2000-4 air motor | 146.270.996 |

## CARTS AND RODS (SUCTION AND FLUSHING)

| Description                                                                 | Part number |
|-----------------------------------------------------------------------------|-------------|
| Two Post Cart w/o plate                                                     | 051.221.000 |
| Two Post Pump Mounting Plate                                                | 056.100.199 |
| Easyflow suction rod Ø25 plunging tube length 600 mm                        | 149.596.150 |
| Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums) | 149.596.160 |
| Stainless steel flushing rod F18 x 125                                      | 049.596.000 |
| Filter                                                                      | 155.580.301 |

## AIRLESS 40C100 PAINT MOBILE PUMP READY TO SPRAY EQUIPED PUMP WITH SWIVEL FITTING SFLOW™ GUN

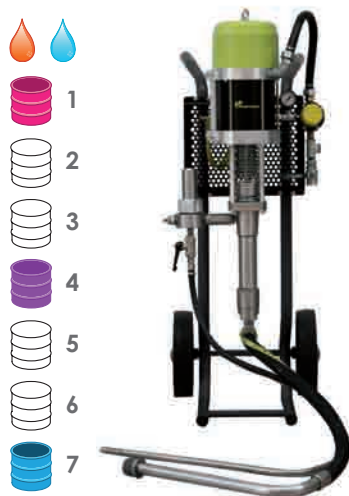


| Kit designation                 | Gun type        | Tip guard  | Tip                 | Suction rod (Ø 25) | Drain rod | Hoses* Length (m) | Pump output filter | Part number |
|---------------------------------|-----------------|------------|---------------------|--------------------|-----------|-------------------|--------------------|-------------|
| Mobile pump with SFLOW™ gun kit | SFLOW™ 275 (4F) | Reversible | Tip Top 13-14 (S17) | ●                  | ●         | 1.6 + 7.5         | ●                  | 151.265.205 |

\* 4,8 and 6,35mm diameter

# AIRLESS 40C100 WB paint pump - stainless steel

Recommended for high viscosity products such as water-based and high solid paints. Ideal for outputs up to 1.5 litre/mn.



## FEATURES

Large suction fluid passage  
Puls-Absorber™ device  
Stainless steel design  
Stainless steel strainer  
Simple design , reduced number of spare parts

## BENEFITS

For high viscosity materials  
Stable and smooth flow  
Compatible with water-based products  
Long service life and good reliability  
No crushing possible  
Easy maintenance

## SPECIFICATIONS

|                                                              |                                                                 |
|--------------------------------------------------------------|-----------------------------------------------------------------|
| Pressure ratio                                               | 40/1                                                            |
| Fluid volume per cycle (cm <sup>3</sup> )                    | 100                                                             |
| Number of cycles per litre of products                       | 10                                                              |
| Fluid Output at 30 cycles/mn (l/mn)                          | 3                                                               |
| Air consumption (m <sup>3</sup> /h) at 30 cycles/mn at 4 bar | 43.2                                                            |
| Free flow rate (L/mn)                                        | 6                                                               |
| Maximum air inlet pressure (bar)                             | 6                                                               |
| Maximum fluid pressure (bar)                                 | 240                                                             |
| Maximum Fluid Temperature (°C)                               | 60                                                              |
| Sound level (dBA)                                            | 80                                                              |
| Sealing Packings                                             | Upper sealing<br>Polyfluid + PTFE G<br>Lower sealing<br>GT seal |
| Wetted parts                                                 | Stainless steel                                                 |
| Weight (kg) - wall-mounted                                   | 22                                                              |
| Height (cm)                                                  | 92                                                              |
| Width (cm)                                                   | 40                                                              |
| Depth (cm)                                                   | 28                                                              |

## FITTINGS

|         |                                         |            |
|---------|-----------------------------------------|------------|
| Fitting | Air inlet (valve)                       | F 3/4" BSP |
|         | Air outlet (option atomization air kit) | M 1/4" NPS |
|         | Fluid Inlet                             | M 1" G     |
|         | Fluid output (filter)                   | M 3/4" JIC |

## CONFIGURATION OF THE AIRLESS 40C100 WB PAINT PUMP - STAINLESS STEEL

| 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 |

## FITTING TO CONNECT AN AIRLESS GUN KIT

| Description                                     | Part number |
|-------------------------------------------------|-------------|
| Adaptator stainless steel F 3/4" JIC/M 1/2" JIC | 905.160.219 |

## 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 |

## CARTS AND RODS (SUCTION AND FLUSHING)

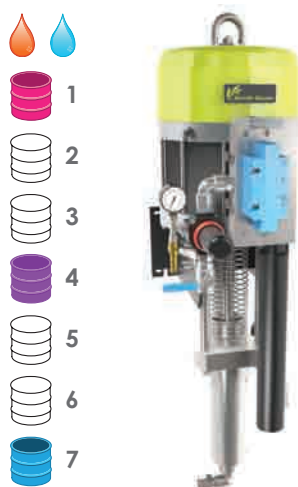
| Description                            | Part number |
|----------------------------------------|-------------|
| Two Post Cart w/o plate                | 051.221.000 |
| Two Post Pump Mounting Plate           | 056.100.199 |
| Suction rod 1"                         | 921.270.101 |
| Stainless steel flushing rod F18 x 125 | 049.596.000 |
| Filter                                 | 155.581.450 |

## AIRLESS 40C100 WB MOBILE PAINT PUMP READY TO SPRAY EQUIPED WITH SWIVEL FITTING SFLOW™ GUN

| Kit designation                 | Gun type        | Tip guard  | Tip                 | Suction rod | Drain rod | Hoses Length (m) | Pump output filter | Part number |
|---------------------------------|-----------------|------------|---------------------|-------------|-----------|------------------|--------------------|-------------|
| Mobile pump with SFLOW™ gun kit | SFLOW™ 275 (4F) | Reversible | Tip Top 13-14 (517) | ●           | ●         | 1.6 + 7.5        | ●                  | 151.265.305 |



# AIRLESS 40C260 paint pump - stainless steel



Recommended for any anti-corrosion applications.  
Available with three different types of sealing packings to meet most customer needs:

- PTFE G + PE: abrasive materials
- GT: solvent-based materials
- PU: water-based materials

## FEATURES

Stainless steel design  
Rugged design  
Air motor muffler included

## BENEFITS

Compatible with water-based materials  
Well-suited for anti-corrosion materials  
Excellent performances and easy maintenance in hard to reach places  
Very silent pump for better comfort of the operator

## SPECIFICATIONS

|                                           |                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Pressure ratio                            | 40/1                                                                                                |
| Fluid volume per cycle (cm <sup>3</sup> ) | 240                                                                                                 |
| Number of cycles per litre of products    | 4                                                                                                   |
| Fluid Output at 20 Cycles/mn (l/mn)       | 4.8                                                                                                 |
| Free flow rate (L/mn)                     | 14.4                                                                                                |
| Air Consumption @ 20 CPM at 5 bar         | 96.8                                                                                                |
| Maximum air inlet pressure (bar)          | 6                                                                                                   |
| Maximum fluid pressure (bar)              | 240                                                                                                 |
| Maximum Fluid Temperature (°C)            | 60                                                                                                  |
| Sound level (dBA)                         | 85                                                                                                  |
| Sealing Packings                          | Upper sealing: PTFE G + PE or GT or PU (upon model)<br>Lower sealing: GT or PU sealing (upon model) |
| Wetted parts                              | Stainless steel, Carbide, Hard chromed stainless steel                                              |
| Weight (kg) - wall-mounted                | 110                                                                                                 |
| Height (cm)                               | 108                                                                                                 |
| Width (cm)                                | 64                                                                                                  |
| Depth (cm)                                | 32.5                                                                                                |

## FITTINGS

|         |              |                 |
|---------|--------------|-----------------|
| Fitting | Air Inlet    | F 3/4" BSP      |
|         | Fluid Inlet  | M 38 x 150/F 1" |
|         | Fluid Outlet | M 3/4" JIC      |

## CONFIGURATION OF THE AIRLESS 40C260 PAINT PUMP - STAINLESS STEEL

| Set-up       | Upper sealing | Lower se aling | 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 |

## KITS

| Description                   | Part number |
|-------------------------------|-------------|
| Seal kit H130                 | 144.025.090 |
| Repair kit H130-2             | 144.025.695 |
| Repair kit H130               | 144.025.095 |
| Seal kit 5000-4-2 air motor   | 146.280.991 |
| Seal kit 5000-4 air motor     | 146.280.990 |
| Repair kit 5000-4-2 air motor | 146.280.996 |
| Repair kit 5000-4 air motor   | 146.280.995 |

## CARTS AND RODS (SUCTION AND FLUSHING)

| 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 strags 1"-M6                 | 151.730.114 |
| Fluid filter                           | 155.581.400 |

# AIRLESS 53C120 paint pump - stainless steel

AIRLESS unit especially designed for industrial coating applications.  
Ideal for feeding two guns.



## FEATURES

Cart-mounted pump  
Rugged design  
Stainless steel design  
Simple design, reduced number of spare parts  
Large diameter suction rod and high compression ratio

## BENEFITS

Can be used in most industrial areas  
Adapted for construction sites  
Compatible with water-based materials  
Easy maintenance  
Can be used with a wide range of materials

## SPECIFICATIONS

|                                                              |                                                        |
|--------------------------------------------------------------|--------------------------------------------------------|
| Pressure ratio                                               | 53/1                                                   |
| Fluid volume per cycle (cm <sup>3</sup> )                    | 124                                                    |
| Number of cycles per litre of products                       | 8                                                      |
| Fluid Output at 30 cycles/mn (l/mn)                          | 3.7                                                    |
| Free flow rate (L/mn)                                        | 7.4                                                    |
| Air consumption (m <sup>3</sup> /h) at 30 cycles/mn at 4 bar | 71                                                     |
| Maximum air inlet pressure (bar)                             | 6                                                      |
| Maximum fluid pressure (bar)                                 | 318                                                    |
| Maximum Fluid Temperature (°C)                               | 60                                                     |
| Sound level (dBA)                                            | 72                                                     |
| Sealing Packings                                             | Upper sealing: Leather/PE<br>Lower sealing: Leather/PE |
| Wetted parts                                                 | Stainless steel                                        |
| Weight (kg)                                                  | 90                                                     |
| Height (cm)                                                  | 130                                                    |
| Width (cm)                                                   | 74                                                     |
| Depth (cm)                                                   | 83                                                     |

## FITTINGS

|         |                       |            |
|---------|-----------------------|------------|
| Fitting | Air inlet (valve)     | F 3/4" BSP |
|         | Fluid Inlet           | M 26 x 125 |
|         | Fluid output (filter) | M 3/4" JIC |

## CONFIGURATION OF THE AIRLESS 53C120 PAINT PUMP

| Set-up       | Suction rod (1") | Drain rod | Fluid pressure regulator | Pump output filter | Part number |
|--------------|------------------|-----------|--------------------------|--------------------|-------------|
| Cart-mounted | ●                | -         | ●                        | ●                  | 151.245.953 |

## REPAIR KITS

| Description                       | Part number |
|-----------------------------------|-------------|
| Leather/PE seal kit fluid section | 105.247     |
| Seal motor kit                    | 146.320.090 |
| Silencer kit                      | 146.320.091 |
| Distributor kit                   | 146.320.092 |
| Distributor seal kit              | 146.320.093 |

## CARTS AND RODS (SUCTION AND FLUSHING)

| Description                          | Part number |
|--------------------------------------|-------------|
| Suction rod 1"                       | 921.270.101 |
| Stainless steel flushing rod F18x125 | 049.596.000 |
| Cart                                 | 208690      |
| Fluid filter                         | 155.581.400 |

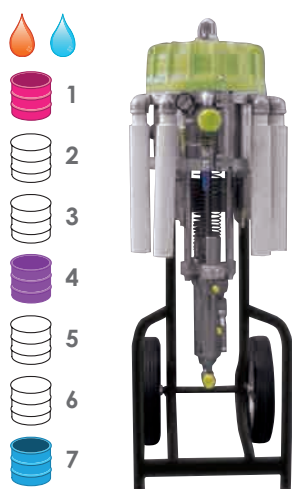
## AIRLESS 53C120 READY TO SPRAY MOBILE EQUIPED PUMP WITH SWIVEL FITTING SFLOW™ GUN

| Kit designation                 | Gun type        | Tip guard  | Tip                 | Suction rod | Drain rod | Hoses* Length (m) | Pump output filter | Part number |
|---------------------------------|-----------------|------------|---------------------|-------------|-----------|-------------------|--------------------|-------------|
| Mobile pump with SFLOW™ gun kit | SFLOW™ 450 (4F) | Reversible | Tip Top 18-13 (519) | ●           | ●         | 1.6 + 14          | ●                  | 151.265.404 |



# AIRLESS 65C260 paint pump - stainless steel

Recommended for anti-corrosion applications.



## FEATURES

|                            |
|----------------------------|
| Stainless steel design     |
| Rugged design              |
| Air motor muffler included |
| Pressure ratio 65/1        |

## BENEFITS

|                                                                                |
|--------------------------------------------------------------------------------|
| Compatible with water-based materials Well-suited for anti-corrosion materials |
| Excellent performances and easy maintenance in hard to reach places            |
| Very silent pump for better comfort of the operator                            |
| High power, compatible with long hose lengths                                  |

## SPECIFICATIONS

|                                           |                                                             |
|-------------------------------------------|-------------------------------------------------------------|
| Pressure ratio                            | 65/1                                                        |
| Fluid volume per cycle (cm <sup>3</sup> ) | 240                                                         |
| Number of cycles per litre of products    | 4                                                           |
| Fluid Output at 30 cycles/mn (l/mn)       | 4.8                                                         |
| Free flow rate (L/mn)                     | 14.4                                                        |
| Air Consumption @ 20 CPM at 5 bar         | 157.3                                                       |
| Maximum air inlet pressure (bar)          | 6                                                           |
| Maximum fluid pressure (bar)              | 390                                                         |
| Maximum Fluid Temperature (°C)            | 60                                                          |
| Sound level (dBA)                         | 78                                                          |
| Sealing Packings                          | Upper sealing<br>PTFE G + PE<br>Lower sealing<br>GT sealing |
| Wetted parts                              | Stainless steel hard chromed.<br>Stainless steel. Carbide   |
| Weight (kg) - wall-mounted                | 86                                                          |
| Height (cm)                               | 112                                                         |
| Width (cm)                                | 48                                                          |
| Depth (cm)                                | 50                                                          |

## FITTINGS

|         |              |             |
|---------|--------------|-------------|
| Fitting | Air Inlet    | F 3/4" BSP  |
|         | Fluid Inlet  | M 38 x 1.50 |
|         | Fluid Outlet | M 3/4" JIC  |

## CONFIGURATION OF THE AIRLESS 65C260 PAINT PUMP - STAINLESS STEEL

| 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 |

## KITS

| Description                   | Part number |
|-------------------------------|-------------|
| Seal kit                      | 144.025.090 |
| Repair kit 260-2              | 144.025.695 |
| Repair kit                    | 144.025.095 |
| Seal kit 8000-4-2 air motor   | 146.258.991 |
| Seal kit 8000-4 air motor     | 146.259.901 |
| Repair kit 8000-4-2 air motor | 146.258.996 |
| Repair kit 8000-4 air motor   | 146.259.905 |

## CARTS AND RODS (SUCTION AND FLUSHING)

| Description                                 | Part number |
|---------------------------------------------|-------------|
| Two Reinforced Arms w/o mounting plate      | 051.231.000 |
| Pump bracket                                | 051.341.206 |
| Suction rod Ø25 plunging tube length 600 mm | 049.597.100 |
| Stainless steel flushing rod F18 x 125      | 049.596.000 |
| 1 arm cart                                  | 051.730.110 |
| Fluid filter                                | 155.581.400 |



# AIRLESS 80C220 paint pump - stainless steel

AIRLESS unit especially designed for industrial coating applications. Ideal for feeding two guns.



## FEATURES

Cart-mounted pump  
Rugged design  
Stainless steel design  
Simple design , reduced number of spare parts  
Large diameter suction rod and high compression ratio

## BENEFITS

Can be used in most industrial areas  
Adapted for construction sites  
Compatible with water-based materials  
Easy maintenance  
Can be used with a wide range of materials

## SPECIFICATIONS

|                                                              |                                                            |
|--------------------------------------------------------------|------------------------------------------------------------|
| Pressure ratio                                               | 80/1                                                       |
| Fluid volume per cycle (cm <sup>3</sup> )                    | 220                                                        |
| Number of cycles per litre of products                       | 4.5                                                        |
| Fluid Output at 30 cycles/mn (l/mn)                          | 6.6                                                        |
| Free flow rate (L/mn)                                        | 13.6                                                       |
| Air consumption (m <sup>3</sup> /h) at 30 cycles/mn at 4 bar | 190                                                        |
| Maximum air inlet pressure (bar)                             | 6                                                          |
| Maximum fluid pressure (bar)                                 | 480                                                        |
| Maximum Fluid Temperature (°C)                               | 60                                                         |
| Sound level (dBA)                                            | 72                                                         |
| Sealing Packings                                             | Upper sealing<br>Leather/PE<br>Lower sealing<br>Leather/PE |
| Wetted parts                                                 | Stainless steel                                            |
| Weight (kg)                                                  | 125                                                        |
| Height (cm)                                                  | 136                                                        |
| Width (cm)                                                   | 74                                                         |
| Depth (cm)                                                   | 83                                                         |

## FITTINGS

|         |                       |            |
|---------|-----------------------|------------|
| Fitting | Air inlet (valve)     | F 3/4" BSP |
|         | Fluid Inlet           | 1"         |
|         | Fluid output (filter) | M 3/4" JIC |

## CONFIGURATION OF THE AIRLESS 80C220 PAINT PUMP - STAINLESS STEEL

| Set-up       | Suction rod | Drain rod | Fluid pressure regulator | Filter pump outlet | Part number |
|--------------|-------------|-----------|--------------------------|--------------------|-------------|
| Cart-mounted | ●           | -         | ●                        | ●                  | 151.245.980 |

## REPAIR 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 |

## CARTS AND RODS (SUCTION AND FLUSHING)

| Description                          | Part number |
|--------------------------------------|-------------|
| Suction rod 1"                       | 921.270.101 |
| Stainless steel flushing rod F18x125 | 049.596.000 |
| Cart                                 | 208690      |
| Fluid filter                         | 155.582.050 |

# AIRLESS 34F60 FLOWMAX® paint pump - stainless steel



Unique design with external valves for an easy maintenance. Flowmax technology ensures total sealing. Quick inversion of this pump allows for a perfectly stable fan shape at the gun.

Performance, extended lifetime, reliability.

## FEATURES

External valves assembly  
Floating piston  
Sealing done by a Superlife™ bellow seal

## BENEFITS

Easy maintenance  
Fast inversions and very high efficiency  
High reliability  
No more lubricant cups  
Leak free  
Total sealing between pump and its environment, ideal to work with moisture-sensitive catalysts  
Ideal for UV and pre-catalyzed materials  
Fluid discharge without retention of a wide range of coating materials  
Compatible with water-based materials  
Constant fluid output pressure

## SPECIFICATIONS

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Pressure ratio                                  | 34/1                            |
| Fluid volume per cycle (cm³)                    | 60                              |
| Number of cycles per litre of products          | 16                              |
| Fluid Output at 30 cycles/mn (l/mn)             | 1.8                             |
| Air consumption (m³/h) at 30 cycles/mn at 4 bar | 22                              |
| Free flow rate (L/mn)                           | 3.6                             |
| Maximum air inlet pressure (bar)                | 6                               |
| Maximum fluid pressure (bar)                    | 200                             |
| Maximum Fluid Temperature (°C)                  | 50                              |
| Sound level (dBA)                               | 71                              |
| Sealing packing                                 | Bellows<br>Upper and lower      |
|                                                 | Polyethylene<br>GT Polyethylene |
| Wetted parts                                    | Stainless steel                 |
| Weight (kg) - wall-mounted                      | 26.5                            |
| Height (cm)                                     | 61                              |
| Width (cm)                                      | 41                              |
| Depth (cm)                                      | 25                              |

## FITTINGS

|         |                                         |            |
|---------|-----------------------------------------|------------|
| Fitting | Air inlet (valve)                       | F 3/4" BSP |
|         | Air outlet (option atomization air kit) | M 1/4" NPS |
|         | Fluid Inlet                             | M 26 x 125 |
|         | Fluid output (filter)                   | M 1/2 JIC  |

## CONFIGURATION OF THE AIRLESS 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 |

## KITS

| Description                     | Part number |
|---------------------------------|-------------|
| Seal kit for A2 fluid section   | 144.910.799 |
| Repair kit for A2 fluid section | 144.910.797 |
| Seal kit for external valves    | 144.910.798 |
| Seal kit for 2000-2 air motor   | 144.929.902 |
| Repair kit for 2000-2 air motor | 144.929.912 |

## CARTS AND RODS (SUCTION AND FLUSHING)

| Description                                                                 | Part number |
|-----------------------------------------------------------------------------|-------------|
| Two Post Cart w/o plate                                                     | 051.221.000 |
| Two Post Pump Mounting Plate                                                | 056.100.199 |
| Easyflow suction rod Ø25 plunging tube length 600 mm                        | 149.596.150 |
| Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums) | 149.596.160 |
| Stainless steel flushing rod F18 x 125                                      | 049.596.000 |
| 1 arm cart                                                                  | 051.730.110 |
| Fluid filter                                                                | 155.580.400 |

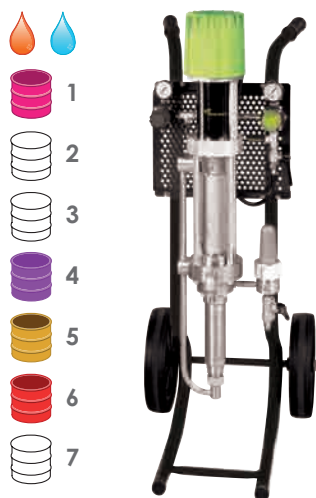


## AIRLESS 34F60 FLOWMAX® PAINT PUMP KIT WITH M250 GUN

| Description  | Gun type | Supplied with aircap | Tip                | Suction rod (Ø25) | Drain rod | Atomization air regulator | Hoses Length (m) | Pump output filter | Kit part number |
|--------------|----------|----------------------|--------------------|-------------------|-----------|---------------------------|------------------|--------------------|-----------------|
| Wall-mounted | M 250    | -                    | Reversible 517 tip | ●                 | ●         | -                         | 10               | ●                  | 151.260.870     |

# AIRLESS 40F50 FLOWMAX® paint pump - stainless steel

New generation Flowmax® pump for low volume applications.



## FEATURES

Sealing done by one large stroke bellows

Ergonomic design of fluid passages

Stainless steel design

Balanced fluid section

Mobile piston seal

## BENEFITS

High reliability  
No more lubricant cups  
Leak free  
Total sealing - ideal for isocyanates  
Ideal for UV and pre-catalyzed materials

Fluid discharge without retention of a wide range of coating materials

Compatible with water-based materials

Constant fluid output pressure

Excellent suction capacity

## SPECIFICATIONS

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Pressure ratio                                  | 40/1                            |
| Fluid volume per cycle (cm³)                    | 50                              |
| Number of cycles per litre of products          | 20                              |
| Air consumption (m³/h) at 30 cycles/mn at 4 bar | 21.6                            |
| Fluid Output at 30 cycles/mn (l/mn)             | 1.5                             |
| Free flow rate (L/mn)                           | 3                               |
| Maximum fluid pressure (bar)                    | 240                             |
| Maximum Fluid Temperature (°C)                  | 50                              |
| Maximum air inlet pressure (bar)                | 6                               |
| Sound level (dBA)                               | 72                              |
| Sealing packing                                 | Bellows<br>Upper and lower      |
|                                                 | Polyethylene<br>GT polyethylene |
| Wetted parts                                    | Stainless steel                 |
| Weight (kg) - wall-mounted                      | 37                              |
| Height (cm)                                     | 97                              |
| Width (cm)                                      | 40                              |
| Depth (cm)                                      | 28                              |

## FITTINGS

|         |                   |            |
|---------|-------------------|------------|
| Fitting | Air inlet (valve) | F 3/4" BSP |
|         | Fluid Inlet       | M 26 x 125 |
|         | Fluid Outlet      | M 1/2" JIC |

## CONFIGURATION OF THE AIRLESS 40F50 FLOWMAX® PAINT PUMP - STAINLESS STEEL

| Set-up             | Suction rod (Ø25) | Drain rod | Air regulator Fluid pressure | Pump output filter | Part number |
|--------------------|-------------------|-----------|------------------------------|--------------------|-------------|
| Wall mounted       | ●                 | ●         | ●                            | ●                  | 151.776.200 |
| 2 arm cart-mounted | ●                 | ●         | ●                            | ●                  | 151.776.400 |

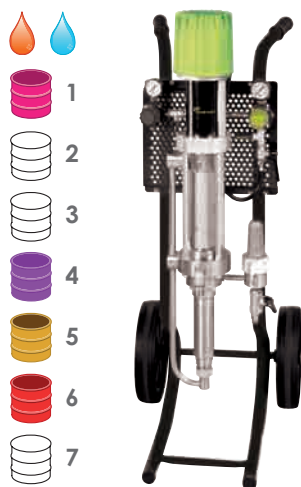
## KITS

| Description                     | Kit part number |
|---------------------------------|-----------------|
| Seal kit                        | 144.950.291     |
| Repair kit                      | 144.950.292     |
| Seal kit for 1000-4 air motor   | 146.270.991     |
| Repair kit for 1000-4 air motor | 146.270.995     |

## CARTS AND RODS (SUCTION AND FLUSHING)

| Description                                                                 | Kit part number |
|-----------------------------------------------------------------------------|-----------------|
| Two Post Cart w/o plate                                                     | 051.221.000     |
| Two Post Pump Mounting Plate                                                | 056.100.199     |
| Easyflow suction rod Ø25 plunging tube length 600 mm                        | 149.596.150     |
| Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums) | 149.596.160     |
| Stainless steel flushing rod F18 x 125                                      | 049.596.000     |
| Fluid filter                                                                | 155.580.400     |

# AIRLESS 40F100 FLOWMAX® paint pump - stainless steel



New generation Flowmax® pump, ideal for feeding two guns.

## FEATURES

Sealing done by one large stroke bellows

Ergonomic design of fluid passages

Stainless steel design

Balanced fluid section

Mobile piston seal

## BENEFITS

High reliability

No more lubricant cups

Leak free

Total sealing between pump and its environment, ideal to work with moisture-sensitive catalysts

Ideal for UV and pre-catalyzed materials

Fluid discharge without retention of a wide range of coating materials

Compatible with water-based materials

Constant fluid output pressure

Excellent suction capacity

## SPECIFICATIONS

|                                                              |                                 |
|--------------------------------------------------------------|---------------------------------|
| Pressure ratio                                               | 40/1                            |
| Fluid volume per cycle (cm <sup>3</sup> )                    | 100                             |
| Number of cycles per litre of products                       | 10                              |
| Fluid Output at 30 cycles/mn (l/mn)                          | 3                               |
| Air consumption (m <sup>3</sup> /h) at 30 cycles/mn at 4 bar | 43.2                            |
| Free flow rate (L/mn)                                        | 6                               |
| Maximum fluid pressure (bar)                                 | 240                             |
| Maximum Fluid Temperature (°C)                               | 50                              |
| Maximum air inlet pressure (bar)                             | 6                               |
| Sound level (dBA)                                            | 77                              |
| Sealing packing                                              | Bellows<br>Upper and lower      |
|                                                              | Polyethylene<br>GT Polyethylene |
| Wetted parts                                                 | Stainless steel                 |
| Weight (kg) - wall-mounted                                   | 42                              |
| Height (cm)                                                  | 97                              |
| Width (cm)                                                   | 40                              |
| Depth (cm)                                                   | 28                              |

## FITTINGS

|         |                   |            |
|---------|-------------------|------------|
| Fitting | Air inlet (valve) | F 3/4" BSP |
|         | Fluid Inlet       | M 26x125   |
|         | Fluid Outlet      | M 1/2" JIC |

## CONFIGURATION OF THE AIRLESS 40F100 FLOWMAX® PAINT PUMPS- STAINLESS STEEL

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

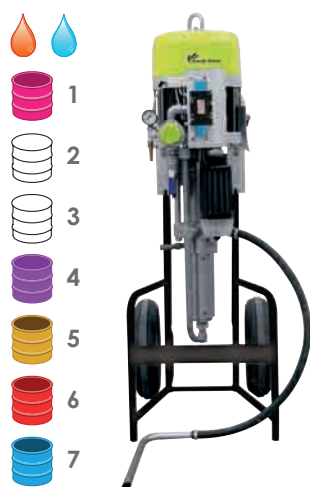
## KITS

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

## CARTS AND RODS (SUCTION AND FLUSHING)

| Description                                                                 | Part number |
|-----------------------------------------------------------------------------|-------------|
| Two Post Cart w/o plate                                                     | 051.221.000 |
| Two Post Pump Mounting Plate                                                | 056.100.199 |
| Easyflow suction rod Ø25 plunging tube length 600 mm                        | 149.596.150 |
| Easyflow suction rod Ø25 plunging tube length 1000mm (for 200 liters drums) | 149.596.160 |
| Stainless steel flushing rod F18 x 125                                      | 049.596.000 |
| Fluid filter                                                                | 155.580.301 |

# AIRLESS 40F260 FLOWMAX® paint pump - stainless steel



Recommended for anti-corrosion applications. Available with two different types of sealing packings to meet most customer needs:

- GT: solvent-based materials
- PU: water-based materials

## FEATURES

Sealing done by one large stroke bellow

Ergonomic design of fluid passages

Stainless steel design

Balanced fluid section

Mobile piston seal

## BENEFITS

High reliability

No more lubricant cups

Leak free

Total sealing between pump and its environment, ideal to work with moisture-sensitive catalysts

Ideal for UV and pre-catalyzed materials

Fluid discharge without retention of a wide range of coating materials

Compatible with water-based materials

Constant fluid output pressure

Excellent suction capacity

## SPECIFICATIONS

|                                        |                                                                        |
|----------------------------------------|------------------------------------------------------------------------|
| Pressure ratio                         | 40/1                                                                   |
| Fluid volume per cycle (cm³)           | 240                                                                    |
| Number of cycles per litre of products | 4                                                                      |
| Fluid Output at 20 Cycles/mn (l/mn)    | 4.8                                                                    |
| Free flow rate (L/mn)                  | 14.4                                                                   |
| Maximum fluid pressure (bar)           | 240                                                                    |
| Maximum Fluid Temperature (°C)         | 50                                                                     |
| Maximum air inlet pressure (bar)       | 6                                                                      |
| Sound level (dBA)                      | 85                                                                     |
| Sealing packing                        | Bellows<br>Upper<br>Lower                                              |
|                                        | Polyethylene<br>GT or PU (upon model)<br>GT or PU sealing (upon model) |
| Wetted parts                           | Stainless steel, Carbide, Hard chromed stainless steel                 |
| Weight (kg)                            | 70                                                                     |
| Height (cm)                            | 112                                                                    |
| Width (cm)                             | 65                                                                     |
| Depth (cm)                             | 32,5                                                                   |

## FITTINGS

|         |              |             |
|---------|--------------|-------------|
| Fitting | Air Inlet    | F 3/4" BSP  |
|         | Fluid Inlet  | M 38 x 1.50 |
|         | Fluid Outlet | M 3/4" JIC  |

## CONFIGURATION OF THE AIRLESS 40F260 FLOWMAX® PAINT PUMP- STAINLESS STEEL

| 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 |

## KITS

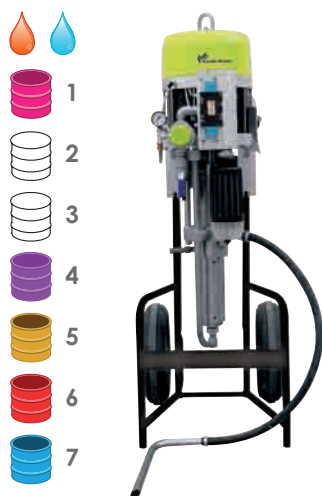
| Description                   | Part number |
|-------------------------------|-------------|
| H 260F-2 seals kit            | 144.020.690 |
| H 260F seals kit              | 144.020.090 |
| H 260F-2 repair kit           | 144.020.695 |
| H 260F repair kit             | 144.020.095 |
| Seal kit 5000-4-2 air motor   | 146.280.991 |
| Seal kit 5000-4 air motor     | 146.280.990 |
| Repair kit 5000-4-2 air motor | 146.280.996 |
| Repair kit 5000-4 air motor   | 146.280.995 |

## CARTS AND RODS (SUCTION AND FLUSHING)

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

# AIRLESS 65F260 FLOWMAX® paint pump - stainless steel

Recommended for corrosion-resistant applications.



## FEATURES

Sealing done by one large stroke bellow

Ergonomic design of fluid passages

Stainless steel design

Balanced fluid section

Mobile piston seal

Pressure ratio 65/1

## BENEFITS

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

Fluid discharge without retention of a wide range of coating materials

Compatible with water-based materials

Constant fluid output pressure

Excellent suction capacity

High power, compatible with long hose lengths

## SPECIFICATIONS

|                                           |                                                         |
|-------------------------------------------|---------------------------------------------------------|
| Pressure ratio                            | 65/1                                                    |
| Fluid volume per cycle (cm <sup>3</sup> ) | 240                                                     |
| Number of cycles per litre of products    | 4                                                       |
| Fluid Output at 20 Cycles/mn (l/mn)       | 4.8                                                     |
| Free flow rate (L/mn)                     | 14.4                                                    |
| Maximum fluid pressure (bar)              | 390                                                     |
| Maximum Fluid Temperature (°C)            | 50                                                      |
| Maximum air inlet pressure (bar)          | 6                                                       |
| Sound level (dBA)                         | 78                                                      |
| Sealing packing                           | Bellows Polyethylene<br>Upper and lower GT polyethylene |
| Wetted parts                              | Stainless steel, carbide, hard chromed stainless steel  |
| Weight (kg)                               | 90                                                      |
| Height (cm)                               | 116                                                     |
| Width (cm)                                | 48                                                      |
| Depth (cm)                                | 50                                                      |

## FITTINGS

|         |              |            |
|---------|--------------|------------|
| Fitting | Air Inlet    | F 3/4" BSP |
|         | Fluid Inlet  | M 38 x 150 |
|         | Fluid Outlet | M 3/4" JIC |

## CONFIGURATION OF THE AIRLESS 65F260 FLOWMAX® PAINT PUMP - STAINLESS STEEL

| 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 |

## KITS

| Description                   | Part number |
|-------------------------------|-------------|
| H 260F-2 seals kit            | 144.020.690 |
| H 260F seals kit              | 144.020.090 |
| H 260F-2 repair kit           | 144.020.695 |
| H 260F repair kit             | 144.020.095 |
| Seal kit 8000-4-2 air motor   | 146.258.991 |
| Seal kit 8000-4 air motor     | 146.259.901 |
| Repair kit 8000-4-2 air motor | 146.258.996 |
| Repair kit 8000-4 air motor   | 146.259.905 |

## CARTS AND RODS (SUCTION AND FLUSHING)

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

## AIRLESS Flowmax® pumps accessories

## FILTERS 360, 400 AND 460 BAR

## CONFIGURATION OF STEEL FILTERS

| Description                     | Maximum fluid pressure (bar) | Stainless steel for filter | Inlet    | Thread Outlet | Drain      | Part number |
|---------------------------------|------------------------------|----------------------------|----------|---------------|------------|-------------|
| 1/2" bare steel filter          | 400                          | cartridge 160µ             | F 1/2" G | F 1/2" G      | F 1/4" G   | 104.240     |
| 3/4" bare steel filter          | 400                          | cartridge 160µ             | F 3/4" G | F 3/4" G      | F 1/4" G   | 104.243     |
| 1/2" steel filter + drain valve | 400                          | cartridge 160µ             | F 1/2" G | F 1/2" G      | M 1/2" JIC | 104.241     |
| 3/4" steel filter + drain valve | 400                          | cartridge 160µ             | F 3/4" G | F 3/4" G      | M 1/2" JIC | 104.244     |

## CONFIGURATION OF STAINLESS STEEL FILTERS

| Description                                      | Maximum fluid pressure (bar) | Stainless steel for filter | Inlet           | Thread Outlet   | Drain           | Part number |
|--------------------------------------------------|------------------------------|----------------------------|-----------------|-----------------|-----------------|-------------|
| 3/4" stainless steel bare filter                 | 360                          | 12 (280 µm)                | F 3/4" NPS (x1) | F 3/4" NPS (x1) | F 3/8" NPS (x1) | 155.581.450 |
| Stainless steel Accumulator equipped filter 3/4" | 360                          | 12 (280 µm)                | M 3/4" BSP      | M 3/4" JIC      | M 18x125        | 155.581.400 |
| 1" stainless bare steel filter-double screen     | 480                          | 15 (x2) (360 µm)           | F 1" NPS (x1)   | F 1" NPS (x1)   | F 3/8" NPS (x2) | 155.582.000 |
| Stainless steel equipped double screen filter 1" | 480                          | 15 (x2) (360 µm)           | F 1" G          | F 1" G          | F 3/8" G        | 155.582.050 |
| 1/2" stainless steel bare filter                 | 400                          | cartridge 160µ             | F 1/2" G        | F 1/2" G        | F 1/4" G        | 104.247     |
| 1/2" stainless steel bare filter + drain valve   | 400                          | cartridge 160µ             | F 1/2" G        | F 1/2" G        | M 1/2" JIC      | 104.248     |
| 3/4" stainless steel bare filter + drain valve   | 400                          | cartridge 160µ             | F 3/4" G        | F 3/4" G        | M 1/2" JIC      | 104090      |

## FILTER ACCESSORIES

| Description                                                                             | Part number |
|-----------------------------------------------------------------------------------------|-------------|
| Stainless steel filter fitting lenght 70 mm (MM 3/8" NPT)                               | 055.580.301 |
| Wall-mounted bracket and screws for 3/8", 3/4" and 1" filter with 9 digits part numbers | 155.190.105 |
| Wall-mounted bracket for filters with 6 digits part numbers                             | 204052      |

## SCREEN AND CARTRIDGES FOR FLUID FILTER

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

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

### CONFIGURATION FILTRATION CARTRIDGE STAINLESS STEEL (FILTRATION SURFACE 132 CM<sup>2</sup>)

| Description                          | Filtration size |      | Nozzle size | Part number |
|--------------------------------------|-----------------|------|-------------|-------------|
|                                      | Micron          | Mesh |             |             |
| Filtration cartridge Stainless steel | 90              | 170  | 4           | 601.241     |
| Filtration cartridge Stainless steel | 102             | 140  | 4           | 601.240     |
| Filtration cartridge Stainless steel | 160             | 83   | 6           | 601.239     |
| Filtration cartridge Stainless steel | 201             | 65   | 9 - 20      | 601.324     |
| Filtration cartridge Stainless steel | 350             | 45   | 30 - 68     | 601.238     |
| Filtration cartridge Stainless steel | 710             | 25   | > 68        | 601.237     |

### CONFIGURATION FILTRATION CARTRIDGE STEEL (FILTRATION SURFACE 132 CM<sup>2</sup>)

| Description                | Filtration size |      | Nozzle size | Part number |
|----------------------------|-----------------|------|-------------|-------------|
|                            | Micron          | Mesh |             |             |
| Filtration cartridge steel | 90              | 170  | 4           | 601.093     |
| Filtration cartridge steel | 102             | 140  | 4           | 601.090     |
| Filtration cartridge steel | 160             | 83   | 6           | 601.089     |
| Filtration cartridge steel | 201             | 65   | 9 - 20      | 601.287     |
| Filtration cartridge steel | 350             | 45   | 30 - 68     | 601.092     |
| Filtration cartridge steel | 710             | 25   | > 68        | 601.084     |



## STRAINERS FOR SUCTION RODS

### STRAINERS CONFIGURATION

| Pump                                                     | Height (mm) | Internal diameter (mm) | Material        | Filtration size |      | Part number |
|----------------------------------------------------------|-------------|------------------------|-----------------|-----------------|------|-------------|
|                                                          |             |                        |                 | Micron          | Mesh |             |
| 40.130-2 / 40.130 F2 / 65.130 / 65.130 F2                | 112         | 66                     | Polyamide       | 1000            | 15   | 149.591.400 |
| 40.25/40.50WB                                            | 40          | 48                     | Stainless steel | 1000            | 15   | 921.270.102 |
| 34.A2 / 40.25 / 40.25F / 40.50 / 40.50F / Easy Flush Ø25 | 40          | 48                     | Stainless steel | 1000            | 15   | 149.596.152 |



# NOTES

Notes area with horizontal dashed lines for writing.

Airless spraying

Plural component pumps and machines

Fittings and air treatment

# Cyclix™ agitators for 20-40-200 l drums



This elevator-agitator for 20-40 to 200l 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.

## FEATURES

Stainless steel (agitator cover, suction and drain rods)  
Adjustable suction rod height  
Suction and return tubes  
Double effect jack with 3 positions  
command lever: up, stop, down  
The agitator cannot work during elevator movements

## BENEFITS

Compatibility with all materials  
No product loss  
Suitable for recirculating  
Important flexibility  
Security

## CHARACTERISTICS

|                      |           |            |
|----------------------|-----------|------------|
| 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™ PART NUMBERS FOR 20 - 40 L DRUMS

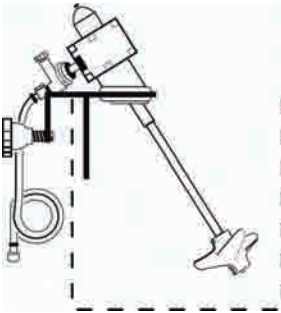
| Description                 | Elevator height (mm)    | Agitator rod length (mm) | Paddle diameter (mm) | Cover diameter (mm) | Part number |
|-----------------------------|-------------------------|--------------------------|----------------------|---------------------|-------------|
| Elevator for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

## CYCLIX™ PART NUMBERS 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.

#### AGITATORS

| 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.

#### AGITATORS

| Description             | Part number |
|-------------------------|-------------|
| Agitator for Ø325 cover | 903.290.101 |

### STRAINER FOR CYCLIX™ SUCTION RODS

#### STRAINER FOR CYCLIX™ SUCTION RODS

| Description                       | Part number |
|-----------------------------------|-------------|
| Strainer for cyclix™ suction rods | 154.261.940 |


**AIRLESS POLYAMIDE FLUID HOSES**

- Those hoses should be chosen according to the diameter, the length and the pressure used in the application.

**HOSES CONFIGURATION SINGLE BRAIDED HOSE**

| Designation<br>Conductive<br>Color                      | Part number<br>YES<br>Black |             |             |             |
|---------------------------------------------------------|-----------------------------|-------------|-------------|-------------|
| Internal diameter                                       | 4.8 (3/16")                 | 6.35 (1/4") | 9.52 (3/8") | 12.7 (1/2") |
| Max.operating pressure bar                              | 325                         | 300         | 225         | 175         |
| Temperature                                             | up to 100°C                 |             |             |             |
| Cut of 25m without fitting                              | 050.450.005                 |             |             |             |
| Fitting alone to screw in                               | - 905.060.107               |             |             |             |
| PART NUMBER ACCORDING TO LENGTH WITH FITTINGS per meter |                             |             |             |             |
| A and B fittings (free nut)                             | 1/2 JIC                     | 1/2 JIC     | 3/4 JIC     | 7/8 JIC     |
| Treated steel fittings                                  |                             |             |             |             |
| Without spring                                          |                             |             |             |             |
| 0.5 m                                                   |                             | 76.022      | 76.035      |             |
| 1 m                                                     | 76.010                      | 76.023      | 76.036      | 76.049      |
| 2 m                                                     | 76.012                      | 76.025      | 76.038      | 76.051      |
| 3 m                                                     |                             | 76.026      | 76.039      |             |
| 5 m                                                     |                             | 76.028      | 76.041      |             |
| 6 m                                                     | 76.016                      | 76.029      | 76.042      |             |
| 7 m                                                     |                             | 76.030      | 76.043      | 76.056      |
| 8 m                                                     |                             | 76.031      | 76.044      | 76.057      |
| 10 m                                                    |                             | 76.033      | 76.046      |             |
| 12 m                                                    |                             | 76.034      |             |             |

**HOSES CONFIGURATION DOUBLE BRAIDED HOSE**

| Designation<br>Conductive<br>Color                      |             |             | Part number<br>YES<br>Black |             |             |
|---------------------------------------------------------|-------------|-------------|-----------------------------|-------------|-------------|
| Internal diameter                                       | 6.35 (1/4") | 6.35 (1/4") | 9.52 (3/8")                 | 9.52 (3/8") | 12.7 (1/2") |
| Max.operating pressure bar                              | 450         | 500         | 375                         | 425         | 375         |
| Temperature                                             | up to 100°C |             |                             |             |             |
| PART NUMBER ACCORDING TO LENGTH WITH FITTINGS PER METER |             |             |                             |             |             |
| A and B fittings (free nut)                             | 1/2 JIC     | 1/2 JIC     | 3/4 JIC                     | 3/4 JIC     | 7/8 JIC     |
| Treated steel fittings<br>Without spring                |             |             |                             |             |             |
| 0.5 m                                                   | 76.074      |             |                             |             |             |
| 1 m                                                     | 050.451.001 | 050.450.905 |                             |             |             |
| 2 m                                                     | 76.064      |             | 76.077 76.090               |             |             |
| 3 m                                                     | 76.065      |             | 050.450.904 76.091          |             |             |
| 5 m                                                     | 050.451.002 | 76.067      | 050.450.903                 | 76.080      | 76.093      |
| 6 m                                                     |             |             | 76.081 76.094               |             |             |
| 8 m                                                     | 76.070      |             | 76.096                      |             |             |
| 10 m                                                    | 050.451.003 | 050.450.902 |                             | 76.085      |             |
| 12 m                                                    | 76.073      |             | 76.086                      |             |             |
| 14 m                                                    | 76.842      |             |                             |             |             |
| 18 m                                                    | 76.844      |             |                             |             |             |
| 20 m                                                    | 050.450.901 |             |                             |             |             |



### AIRLESS PTFE FLUID HOSES

For all products, particularly those which are sensitive to air humidity (like silicone) and those which are chemically aggressive.

#### HOSES CONFIGURATION

| Designation                      | Part number              |             |             |             |             |             |
|----------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| Material color                   | Grey with metallic braid |             |             |             |             |             |
| Internal diameter (mm)           | 4.8 (3/16")              | 6.35 (1/4") | 9.52 (3/8") | 9.52 (3/8") | 12.7 (1/2") | 12.7 (1/2") |
| Conductive                       | YES                      |             |             |             |             |             |
| Maximum Operating pressure (bar) | 250                      | 250         | 175         | 350         | 350         | 350         |
| Temperature                      | ≤ 110 °C                 |             |             |             |             |             |
| Fittings A and B (free nut)      | 1/2 JIC                  | 1/2 JIC     | 3/4 JIC     | 3/4 JIC     | 3/4 JIC     | 7/8 JIC     |
| 0.60 m                           | 050.452.010              | -           | -           | -           | -           | -           |
| 0.70 m                           | -                        | -           | 050.451.904 | -           | -           | -           |
| 1 m                              | -                        | 050.452.001 | 050.451.903 | -           | -           | -           |
| 2 m                              | -                        | -           | 050.451.901 | 76.800      | 050.452.204 | 76.872      |
| 3 m                              | -                        | -           | -           | 76.801      | -           | 76.874      |
| 5 m                              | -                        | 050.452.002 | 050.451.902 | 76.802      | -           | 76.928      |
| 7 m                              | -                        | -           | -           | 76.803      | 050.452.201 | -           |
| 10 m                             | -                        | -           | -           | 76.914      | 050.452.203 | -           |

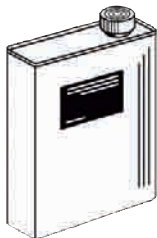
### PRODUCT HOSES FOR SUCTION ROD

#### HOSE FOR SUCTION ROD

| Designation              | Part number |             |             |
|--------------------------|-------------|-------------|-------------|
| Polyethylene hose sleeve | Ø 9.5 mm    | Ø 19 mm     | Ø 25 mm     |
| 5 m cut                  | 050.361.005 | 050.366.051 | 050.367.001 |
| 15 m cut                 | 050.361.004 | 050.366.052 | -           |
| 25 m cut                 | 050.361.001 | 050.366.053 | 050.367.003 |
| Grooved conical fitting  | 050.140.517 | 050.140.545 | 050.140.543 |
| Nickeled nut fitting     | 050.271.303 | 050.271.502 | 049.595.306 |
| 1 wing collar            | 906.311.234 | 906.311.207 | 906.311.204 |

### LUBRICANTS AND GREASES FOR PUMPS

#### LUBRICANT FOR PUMP PACKINGS



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

# RC 600 full visor mask

Maximum protection for excellent working conditions, optimal health protection with low operating costs. The RC 600 is compliant with the latest european norms.



## FEATURES

Complete assembly with protection screen  
Light and ergonomic  
Low airflow alarm  
Adjustable head and front protection  
Easy disposable screen protectors

## BENEFITS

Complete protection of the operator face and eyes (against isocyanates especially)  
Reduced fatigue and excellent working conditions for increased productivity  
Constant operator protection  
Suitable for everyone and user-friendly  
Easy maintenance

## CONFIGURATION OF THE RC 600 FULL-VISOR MASK

| Description                     | Part number |
|---------------------------------|-------------|
| RC 600 full-visor mask complete | 143.400.000 |
| Belt supply air hose assembly   | 143.400.002 |

## ACCESSORIES

| Description                                      | Quantity | Part number |
|--------------------------------------------------|----------|-------------|
| RC 600 full-visor mask alone (without regulator) | 1        | 143.400.007 |
| Screen protector                                 | 50       | 143.400.006 |

## 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

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

### BENEFITS

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

### CONFIGURATION OF THE RC 756 RESPIRATOR

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

### FILTERS & PRE-FILTERS

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

### ACCESSORIES

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

## Accessories for protection



### PROTECTIVE OVERALLS

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

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

#### PART NUMBERS

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



### PROTECTIVE HOOD

Protects the head and hair.

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

#### PART NUMBERS

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



# NOTES

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Airless spraying

Plural component pumps and machines

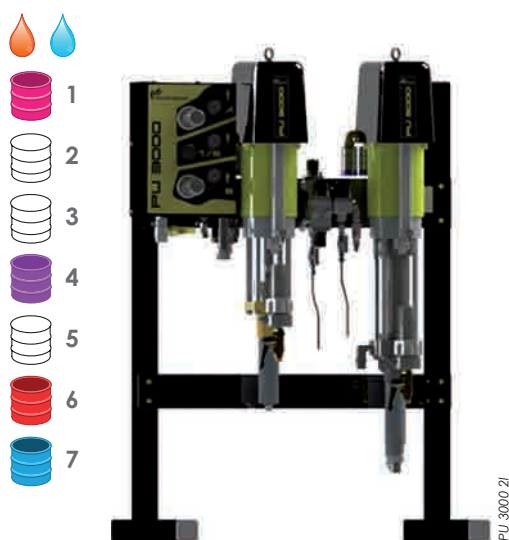
Fittings and air treatment

# NOTES

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# PLURAL COMPONENT PUMPS AND MACHINES

## PU 3000 2I and 4I AIRLESS



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

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

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

The machine can be installed in an ATEX 1 or 2 zone to be in close proximity to the operator. The control box must be installed in safe zone (ATEX Directive).



### FEATURES

### BENEFITS

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

### SPECIFICATIONS

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| Electrical Power                 | 115/230V - 75W                                                         |
| Maximum air inlet pressure (bar) | 6                                                                      |
| Fluid viscosity                  | 30 - 20.000cps AIRLESS                                                 |
| Mixing accuracy                  | +/- 1%                                                                 |
| Mixed fluid output               | PU 3000 2I: 10cc at 2000 cc / min<br>PU 3000 4I: 50cc at 4000 cc / min |
| Mixing ratio                     | 1/1 - 20/1 (100% - 5%)                                                 |
| Wetted parts                     | Stainless Steel and PEHD                                               |

# PU 3000 2l and 4l AIRLESS

## TECHNICAL CHARACTERISTICS

| Description               | Pressure ratio | Air motor type | Maximum fluid pressure (bar) |
|---------------------------|----------------|----------------|------------------------------|
| PU 3000 - AIRLESS version | 40 / 1         | 7000           | 240                          |
| PU 3000 - AIRLESS version | 53 / 1         | 5000           | 350                          |

## PU 3000 DIMENSIONS

| Description     | Height (cm)                        | Depth (cm) | Width (cm) |
|-----------------|------------------------------------|------------|------------|
| AIRLESS version | PU 3000 2l: 130<br>PU 3000 4l: 150 | 70         | 96         |
| Control Box     | 28.6                               | 14.3       | 36.7       |

## FITTING

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

## PU 3000 2L PART NUMBERS

| Description          | Part number |
|----------------------|-------------|
| PU 3000 - 124cc - 2l | 155.680.102 |

## PU 3000 4L PART NUMBERS

| Description                  | Part number |
|------------------------------|-------------|
| PU 3000 - 227cc - 4l         | 155.680.150 |
| PU 3000 - 260cc - 4l Flowmax | 155.680.175 |

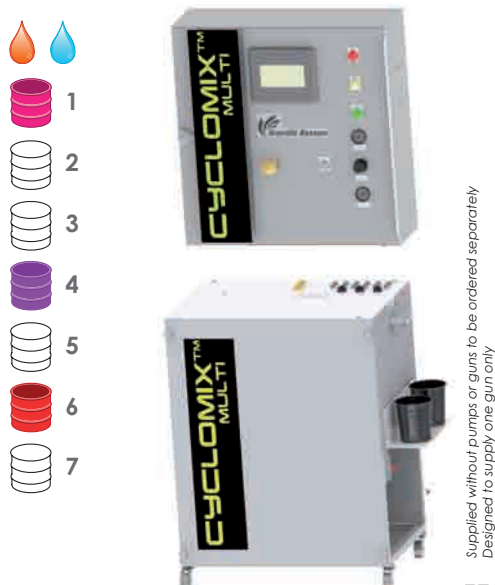
## PU 3000 OPTION PART NUMBERS

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

## PU 3000 FLUSHING PUMPS PART NUMBERS

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

# CYCLOMIX™ Multi and Multi PH



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

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

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

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

## FEATURES

## BENEFITS

|                                                                                              |                                                                      |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Automatic component management: base, catalyst and solvent                                   | Dosing +/- 1% and repeatability +/- 0.5%                             |
| Automatic mix material fill                                                                  | Quick start-up. Minimal material and solvent wastage.                |
| Adaptable programming for each color                                                         | Ideal application for each color                                     |
| Several flushing modes: production cycle, extended production stops, solvent-based materials | Perfect compatibility with production conditions evolutions          |
| Fast mixing ratio accuracy by beakers batch mode                                             | Visual control of mixing accuracy                                    |
| Operating pressure from 2 to 200 bar                                                         | To easily get small quantities of mixed materials for touch-up works |
| Autowash system                                                                              | AIRLESS spraying technologies                                        |
| Multilingual display and integrated instruction manual                                       | Off-production gun automatic monitoring                              |
| Stainless steel design                                                                       | User-friendly and easy programming for the operator                  |
| Numerical interface                                                                          | Compatible with water-based materials                                |
| Integrated spraying air management                                                           | Quick link with an on-line automate                                  |
| Pneumatic emergency flushing                                                                 | Comfort and safety during color and solvent fill                     |
| Design of the mixing plate                                                                   | Perfect flushing in case of power supply cut-off                     |
| Robotic interface                                                                            | Easy maintenance and spare parts standardization                     |
|                                                                                              | Connection with an on-line automate                                  |

## SPECIFICATIONS

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| Electrical Power                   | 115 / 230 V - 75 W                      |
| Trigger air pressure (bar mini)    | 4                                       |
| Product pressure (bar)             | 2 - 200 bar                             |
| Weight (kg)                        | 70                                      |
| Wetted parts                       | Stainless steel and PeHD                |
| Mixing ratio                       | 0.6/1 to 20/1 (160% to 5%)              |
| Mixing accuracy                    | +/- 1%                                  |
| Maximum number of gun to be fitted | 1                                       |
| Solvent flowrate (m³/h)            | 100 - 2000 cm³/mn                       |
| Mixed fluid output                 | 100 - 2000 cm³/mn                       |
| Fluid viscosity                    | 30 - 5000 cps                           |
| height (cm)                        | 60 (control cabinet) - 77 (mixing unit) |
| Width (cm)                         | 60 (control cabinet) - 60 (mixing unit) |
| Depth (cm)                         | 40 (control cabinet) - 77 (mixing unit) |

## CYCLOMIX™ Multi and Multi PH

## FITTINGS

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

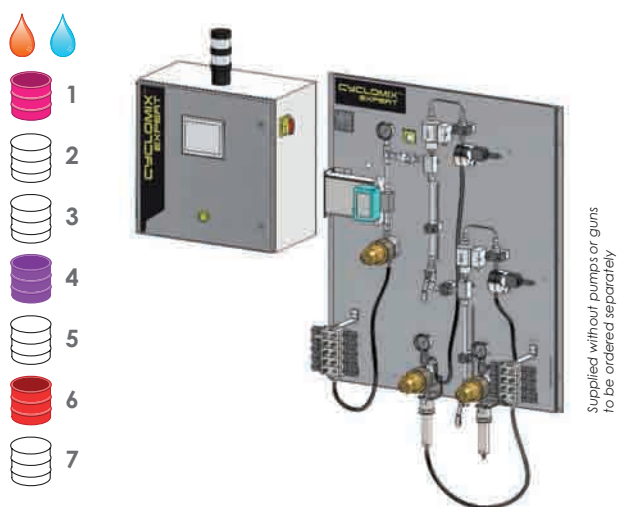
## CYCLOMIX™ MULTI PART NUMBERS

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

## OPTION PART NUMBER CYCLOMIX™ MULTI

| Description | Part number |
|-------------|-------------|
| Autowash    | 155.660.300 |

## CYCLOMIX™ Expert



Cyclomix™ EXPERT, industrial and evolutive solution, innovative, guarantees total quality of production.

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

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

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

CYCLOMIX™ Expert is available in AIRLESS versions (up to 200 bars) to meet all market needs, in manual or automatic spraying.

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

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

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

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



## CYCLOMIX™ Expert

## FEATURES

## BENEFITS

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

## SPECIFICATIONS

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

## CONTROL BOX CHARACTERISTICS

|             |    |
|-------------|----|
| Width (cm)  | 60 |
| Height (cm) | 60 |
| Depth (cm)  | 40 |
| Weight (kg) | 25 |

## CYCLOMIX™ EXPERT PART NUMBER

| Description      | Part number       |
|------------------|-------------------|
| CYCLOMIX™ Expert | Please consult us |

# NOTES

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# FITTINGS AND AIR TREATMENT

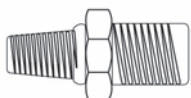
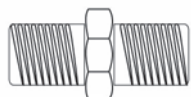
## MALE TO MALE CONNECTION PMAX: 20 BAR

Max Pressure (20 bar)

### METRICAL FITTINGS - 20 BAR



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



### METRICAL ADAPTORS TOWARDS BSP - 20 BAR

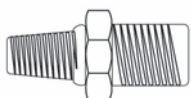
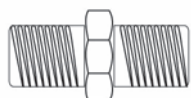
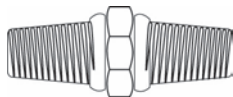
| Male/Male              | M 14 x 125                                | M 18 x 125                                | M 26 x 125                                |
|------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|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

### METRICAL ADAPTORS TOWARDS NPT - 20 BAR

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

## MALE TO MALE CONNECTION PMAX: 60 BAR

### FITTINGS BSP (GAZ) - 60 BAR



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

### FITTINGS NPT - 60 BAR

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

### FITTINGS NPS - 60 BAR

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

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

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

(1) Stainless steel fittings

**FEMALE TO FEMALE CONNECTION****P<sub>MAX</sub>: 60 BAR****FITTINGS BSP (GAS) - 60 BAR**

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

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

| Female/Female | G 1/4" (BSP) |
|---------------|--------------|
| M 14 × 125    | 050.221.401  |

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

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

**T FEMALE NPT - 60 BAR**

| Description           | Part number |
|-----------------------|-------------|
| Fittings 3 × 1/4" NPT | 905.083.301 |

**MALE TO FEMALE CONNECTION****P<sub>MAX</sub>: 20 - 60 BAR****ADAPTOR NPS TOWARDS JIC, NPS AND METRIC - 20 BAR**

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

<sup>(1)</sup> Stainless steel fittings**FITTINGS BSP (GAZ) - 60 BAR**

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

**FITTINGS METRIC - 20 BAR**

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

**ADAPTOR METRIC TOWARDS NPS - 20 BAR**

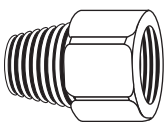
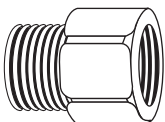
| Male/Female | M 14 × 125  | M 18 × 125  |
|-------------|-------------|-------------|
| 1/4" NPS    | 050.123.535 | 050.123.526 |
| 3/8" NPS    | -           | 050.123.610 |

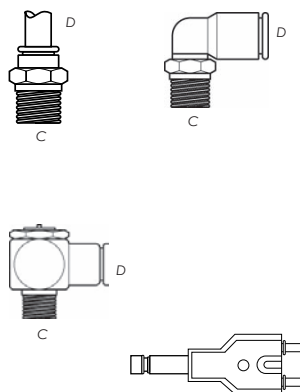
**ADAPTOR JIC TOWARDS METRIC - 20 BAR**

| Male/Female | M 14 × 125  | M 18 × 125  |
|-------------|-------------|-------------|
| 1/2" JIC    | 050.230.619 | 050.230.620 |

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

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

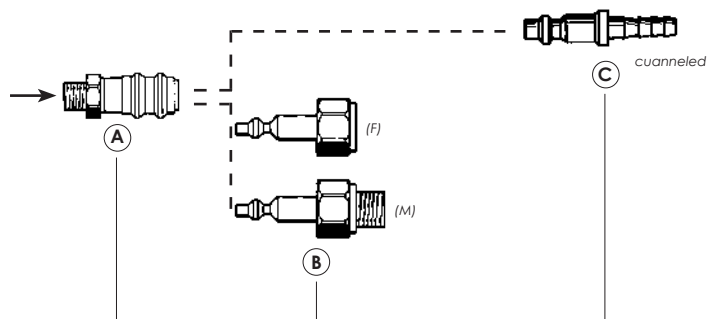




### QUICK FITTINGS FOR SMALL DIAMETER SPECIAL AIR HOSES CONFIGURATION FITTINGS

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

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



#### QUICK FITTINGS

| Type           | Complete assembly A and B | Part A with built-in chutter valve | Part B          | Part C for rubber hose Ø 7 | Part C for rubber hose Ø 10 |
|----------------|---------------------------|------------------------------------|-----------------|----------------------------|-----------------------------|
| Ø5 (14x125)    | 905.030.405               | 905.030.102                        | 905.030.406 (F) | 905.030.203                | 905.030.204                 |
| Ø5 (1/4" BSP)  | -                         | -                                  | 905.030.804 (M) | -                          | -                           |
| Ø5 (1/4" BSP)  | -                         | -                                  | 905.030.803 (F) | -                          | -                           |
| Ø5 (1/4" NPS)  | 905.030.105               | 905.030.104                        | 905.030.106 (F) | -                          | -                           |
| Holding collar | -                         | -                                  | -               | 906.311.224                | 906.311.226                 |

### COMPLETE QUICK DISCONNECT 1/4" NPS FOR AIR HOSE

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

### QUICK FITTINGS FOR Ø 8 HOSE

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

### FITTINGS FOR LOW PRESSURE POLYAMIDE HOSES

#### FITTINGS CONFIGURATION

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

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

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

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

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

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

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

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

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


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

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

**STAINLESS STEEL FITTINGS CONFIGURATION**

| Male/Male | 1/2" JIC    | 3/4" JIC    |
|-----------|-------------|-------------|
| 1/8" NPT  | 905.210.501 | -           |
| 1/4" NPT  | 905.210.502 | 905.210.512 |
| 3/8" NPT  | 905.210.503 | 905.210.513 |
| 1/2" NPT  | 905.210.504 | 905.210.514 |
| 3/4" NPT  | -           | 905.210.515 |

**PROTECTED STEEL FITTING CONFIGURATION**

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

**NICKEL-COATED FITTINGS CONFIGURATION**

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


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

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


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

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

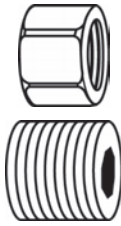
**MALE TO MALE ELBOW FITTINGS (PROTECTIVE COATED STEEL)  
PMAX: 360 BAR**
**NPT FITTINGS CONFIGURATION**

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

**G CO FITTING CONFIGURATION**

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

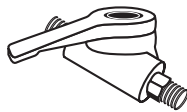
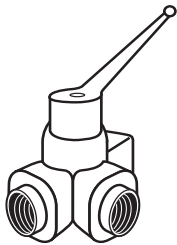


**PLUGS PMAX: 360 BAR****PLUGS CONFIGURATION**

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

**LOW PRESSURE VALVES****3 WAYS VALVE PART NUMBERS**

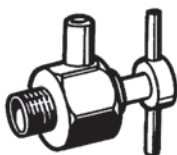
| Description                             | Part number |
|-----------------------------------------|-------------|
| 3 x 1/4" BSP (female)                   | 903.090.804 |
| 3 x 1/4" BSP (female) (stainless steel) | 903.090.805 |

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

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

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

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

**AIR BLEEDING VALVES****AIR BLEEDING VALVE PART NUMBER**

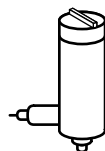
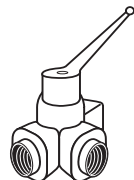
| Description                         | Part number |
|-------------------------------------|-------------|
| Inlet thread (male) G 1/4" (8 x 13) | 903.093.302 |

**NEEDLE VALVES****2 WAYS VALVE PART NUMBERS**

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

**3 WAYS VALVE PART NUMBERS**

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



## HIGH PRESSURE FLUID VALVES

### PART NUMBER

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

### 3 WAYS VALVE - 350 BAR - PART NUMBERS

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

## AIR LINE OUTPUT CONTROL VALVES

### VALVE PART NUMBERS

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

## BLEEDING VALVES

### BLEEDING VALVES PART NUMBERS

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

## FITTINGS - GENERAL INFORMATION

### DETAILS

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



## REGULATORS

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

### CHARACTERISTICS

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

### CONFIGURATION

| Description                                                                                                  | Pressure (bar) | Type | Part number |
|--------------------------------------------------------------------------------------------------------------|----------------|------|-------------|
| Red knob regulator                                                                                           | 3,5            | 1/4" | 016.240.000 |
| Grey knob regulator                                                                                          | 3,5            | 1/4" | 016.380.000 |
| 2 regulators 1/4" with isolating valves<br>2 manometers, 1 inlet valve - 1 outlet valve M 1/4" NPS           | 3,5 & 9        | 1/4" | 019.400.000 |
| Grey knob regulator                                                                                          | 5,5            | 1/4" | 016.390.000 |
| Red knob regulator                                                                                           | 5,5            | 1/4" | 016.370.000 |
| Regulator with pressure gauge<br>inlet fitting 1/4" - outlet fitting M1/4" NPS                               | 5,5            | 1/4" | 019.720.000 |
| Grey knob regulator                                                                                          | 9              | 1/4" | 016.360.000 |
| Phosphor knob regulator                                                                                      | 9              | 1/4" | 016.365.500 |
| Bare regulator                                                                                               | 4              | 1/2" | 016.200.000 |
| Bare regulator                                                                                               | 9              | 1/2" | 016.280.000 |
| Equipped regulator with pressure gauge and wall bracket                                                      | 10             | 1/2" | 019.780.100 |
| 2 regulators (1/4" + 1/2") with isolating valves<br>2 manometers, 1 inlet valve - 2 outlet valves M 1/4" NPS | 9              | 1/4" | 019.390.000 |
| Red ring regulator                                                                                           | 10             | 1/2" | 016.470.000 |
| Red ring regulator                                                                                           | 10             | 3/4" | 016.480.000 |
| Wall bracket                                                                                                 | -              |      | 016.180.010 |

## DE 37 PURIFIER-REGULATOR WITH FILTER CARTRIDGES

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

### Technical characteristics:

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

### Standard equipment:

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

### SPECIFICATIONS

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

### PART NUMBERS

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



## REGULATORS, FILTERS AND LUBRICATORS

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

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



Part 1

### REGULATORS, FILTERS, LUBRICATORS CONFIGURATION (PART 1)

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

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

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



Part 2



## ACCESSORIES

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

### PART NUMBERS

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



## PRESSURE GAUGES

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

### CONFIGURATION

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

## CHOOSING A PUMP

To optimize

- For the best pump capacity, first work out the output you are going to require. This will include the sprayguns themselves, and any circulation you plan to have within this system. Once you have this figure, multiply by 1.2, and then choose the pump of which output at 30 cycles per minute is the nearest.
- The compression ratio you will need is defined by the pressure losses due to the length and diameter of the hosing of your system. To calculate these pressure losses, see page 81.

### Example

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

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

The best-suited pumps will be:

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

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

## PRESSURE LOSS IN FLUID HOSES

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

## PRESSURE DROP CALCULATION

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

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

## FLOW RATE CALCULATION

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

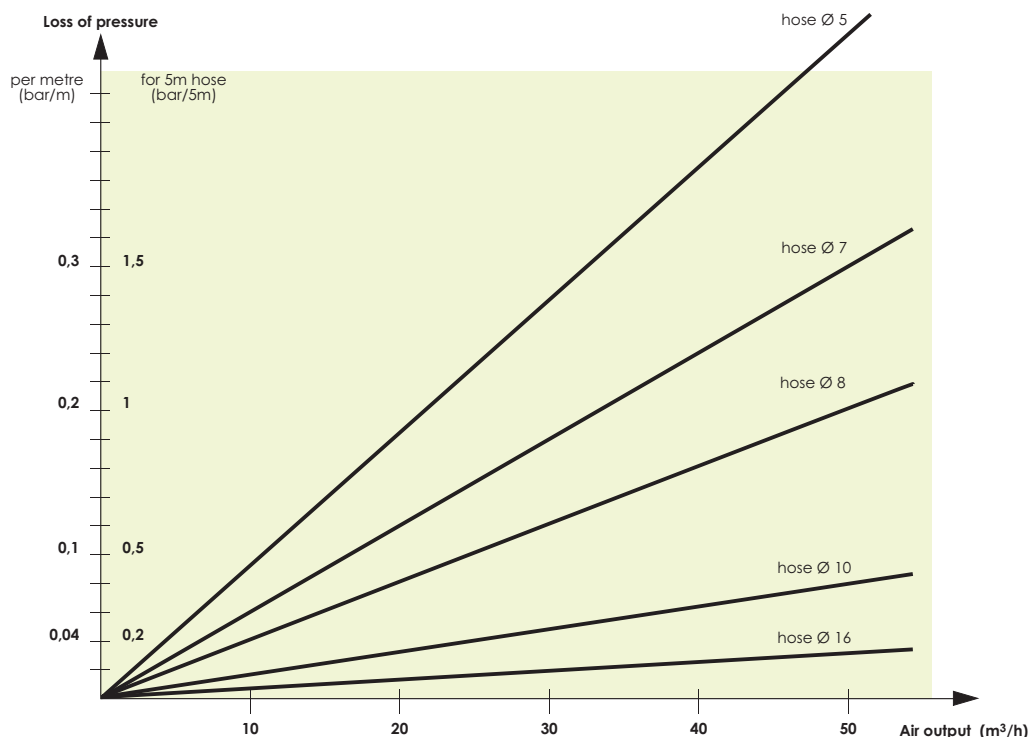
$$\text{Flow (gpm)} = \frac{\text{Pressure loss (psi/Ft)} \times D^4 \text{ (int dia in inches)}}{2.73 \times \text{Viscosity (cps)}}$$

## PIPE DIAMETER CALCULATION

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

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

## PRESSURE LOSS IN AIR HOSES



## ELECTROSTATIC SPRAYING : SUITABILITY OF THE EQUIPMENT DEPENDING ON THE RESISTIVITY OF THE PAINTS

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

## LIST SHOWING THE COMPRESSED AIR CONSUMPTION OF NORMAL AIR TOOLS

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

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

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

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

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

The formula is :

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

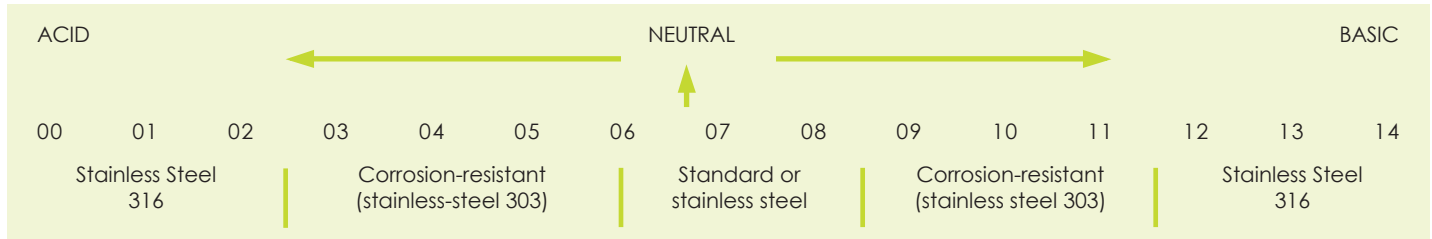
Example for a pump 16.120 :  $Q = 1.2 \times 4,8 \times 16 \times (6 + 1) = 645.12 \text{ l/mn}$  or  $(645.12 \times 60) : 1000 = 38.7 \text{ m³/h}$



## 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 | $3.5314 \times 10^{-5}$ |

| 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   | $1 \times 10^6$ |

| 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 <sup>2</sup> | psi     | 14,2233     |
| Kilogrammes/mm <sup>2</sup> | psi     | 1 422,33    |
| Liters                      | gallons | 0,264178    |
| Meters                      | feet    | 3,2808      |
| Meters                      | inches  | 39,37       |

| CONVERT FROM             | TO                  | MULTIPLY BY |
|--------------------------|---------------------|-------------|
| Poise                    | centipoise          | 100,0       |
| Pints of water           | gallons             | 0,11985     |
| PSI                      | atmosphère (bar)    | 0,06804     |
| Inches <sup>2</sup>      | cm <sup>2</sup>     | 6,4516      |
| Inches <sup>2</sup>      | feet <sup>2</sup>   | 0,006944    |
| Inches <sup>2</sup>      | mm <sup>2</sup>     | 645,163     |
| Millimètres <sup>2</sup> | inches <sup>2</sup> | 0,0015499   |
| daN                      | Kilograms           | 1.0         |

- » For the diameter of a circle, multiply the circumference by 0.31831.
- » For the circumference of a circle, multiply the diameter by 3.1416.
- » For the surface of a circle, multiply the diameter<sup>2</sup> by 0.7854.
- » For the surface of a sphere, multiply the diameter<sup>2</sup> by 3.1416.
- » To find the side of a square that has the same surface area of a circle, multiply the diameter by 0.8862.
- » To find the number of cubic inches in a sphere, multiply the diameter by 0.5236.
- » To find the number of gallons inside a pipe or cylinder, divide the volume in liters by 231.
- » To find the cubic volume of a cylinder or pipe, multiply the section area by the length.



# PRACTICAL INFORMATION

## CHEMICAL COMPATIBILITY CHARTS

### MATERIAL IN CONTACT (WETTED PARTS)

|                        | Carbon steel | Aluminium | Brass | Stainless steel | Nylon | Nitrile | Vitton | Leather | P.U. |
|------------------------|--------------|-----------|-------|-----------------|-------|---------|--------|---------|------|
| Butyl acetate          | 👍👍👍          | 👍👍👍       | 👍👍👍   | 👍👍👍             | 👍👍👍   | N       | N      |         | N    |
| Ethyl acetate          | 👍👍           | 👍👍        | 👍👍    | 👍👍              | 👍👍👍   | N       |        |         |      |
| Acetaldehyde           | 👍👍👍          | 👍👍👍       | 👍👍👍   | 👍👍👍             | 👍👍👍   | N       | N      | 👍👍      | N    |
| 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      |         |      |

## PRACTICAL INFORMATION

## CHEMICAL COMPATIBILITY CHARTS

## MATERIAL IN CONTACT (WETTED PARTS)

|                                  | Carbon steel | Aluminium | Brass | Stainless steel | Nylon | Nitrile | Viton | Leather | P.U. |
|----------------------------------|--------------|-----------|-------|-----------------|-------|---------|-------|---------|------|
| Fertilizer                       |              |           |       |                 |       | 👍👍👍     | N     |         |      |
| 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       | 👍👍👍   |         |      |
| Perchloroethylene (tetrachlore.) | 👍👍👍          | 👍👍        |       | 👍👍👍             | N     | 👍👍      | 👍👍👍   |         | N    |
| Permanganate de potassium        | 👍👍           | 👍👍        |       | 👍👍              | 👍👍👍   | N       | 👍👍👍   |         |      |
| Hydrogen peroxide                | N            | 👍👍👍       | N     | 👍👍              |       | N       | 👍👍    |         |      |
| Chlorohated Peroxyde             |              |           |       |                 |       | N       | 👍👍👍   |         |      |
| Phenol                           | N            | N         |       |                 | 👍👍👍   | N       | 👍👍👍   |         |      |
| Ammonium phosphate               |              |           | 👍👍👍   | 👍👍👍             | 👍👍👍   | 👍👍👍     | 👍👍👍   |         |      |
| Trisodium phosphate              | 👍👍👍          | N         |       | 👍👍👍             | 👍👍👍   | 👍👍👍     | 👍👍👍   |         |      |
| Aluminium polychlorite           |              |           |       |                 |       | 👍👍👍     | 👍👍👍   |         |      |
| Polyelectrolytes                 |              |           |       |                 |       | 👍👍👍     | 👍👍👍   |         |      |
| Caustic potash                   |              | N         |       | 👍👍👍             |       | N       | 👍👍👍   |         |      |
| Sodium silicate                  |              |           |       |                 | 👍👍👍   | 👍👍👍     | 👍👍👍   |         |      |
| Soda                             |              |           |       |                 |       | N       | N     |         |      |
| Aluminium sulfate                |              |           |       |                 | 👍👍👍   | 👍👍👍     | 👍👍👍   | 👍👍👍     | N    |
| Ammonium sulfate                 |              |           |       |                 | 👍👍👍   |         |       |         | 👍👍👍  |
| Calcium sulfate                  | 👍👍👍          | 👍👍👍       |       | 👍👍👍             | 👍👍👍   |         | 👍👍👍   |         |      |
| Copper sulfate                   |              |           |       | 👍👍👍             | 👍👍👍   | 👍👍👍     | 👍👍👍   |         | 👍👍👍  |
| Ferrous sulfate                  |              | N         |       | 👍👍              | 👍👍👍   | 👍👍👍     | 👍👍👍   |         |      |
| Ferric sulfate                   | N            | N         |       | N               | 👍👍👍   | 👍👍👍     | 👍👍👍   |         | 👍👍👍  |
| Sodium sulfate                   | N            |           |       |                 | 👍👍👍   | 👍👍👍     | 👍👍👍   |         |      |
| Hydrogen sulfur                  | 👍👍👍          |           |       |                 | 👍👍👍   | 👍👍👍     | N     |         |      |
| Carbon tetrachloride             | 👍👍           |           | 👍👍👍   | 👍👍👍             | 👍👍👍   | N       | 👍👍👍   |         |      |
| Toluene                          | 👍👍👍          | 👍👍👍       |       | 👍👍👍             | N     | N       | 👍👍👍   |         | N    |
| Trichlorethane                   | 👍👍           | N         |       | 👍👍              | N     | N       | 👍👍👍   |         | N    |
| Trichlorethylene                 | 👍👍           | 👍👍👍       |       | 👍👍              | N     | N       |       |         | N    |
| Triethyleneglycol                |              |           |       | 👍👍              | 👍👍👍   |         | 👍👍👍   |         |      |
| Urea                             | 👍👍           | 👍👍        |       | 👍👍              | 👍👍👍   |         | 👍👍👍   |         |      |
| Xylenes                          | 👍👍           | 👍👍        |       | 👍👍              | 👍👍👍   | N       | 👍👍👍   |         | N    |

👍👍👍 = High Compatibility  
 👍👍 = Good Compatibility

👍 = Low Compatibility  
 N = Not Compatible

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