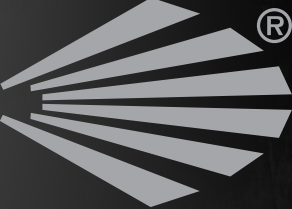
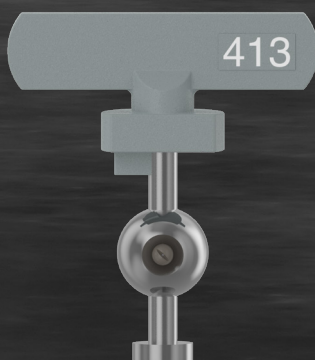
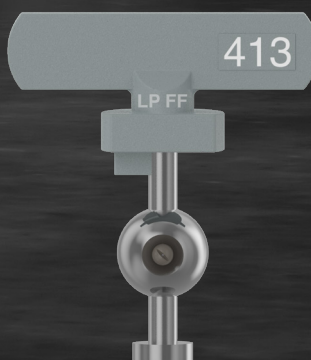


SAGOLA ®
an Elcometer company



**PT - PREMIUM
STANDARD TIPS**



**LP FF - LOW PRESSURE
FINE FINISH**

AIR-ASSISTED AIRLESS TIPS

**AIR-ASSISTED AIRLESS
PAINTING**



HOW DO TIPS WORK?

An air-assisted airless system pressurises the paint without using air.

The paint is forced through the small orifice of the tip at high pressure (up to 200 bar).

This process atomises the paint with a controlled fan width and flow rate. From this point, air is introduced through the tip to further optimise atomisation quality.

The tip size determines how much effort the pump must make to maintain the desired pressure.

CHOOSING THE RIGHT TIP

- Reduces overspray
- Provides greater control
- Allows you to spend less time on the job
- Lower paint consumption
- Higher profits

HOW TO CHOOSE THE RIGHT TIP?

To get the most out of your tip, several factors must be considered:

- TIP FAN WIDTH
- TIP ORIFICE SIZE
- MAXIMUM OUTPUT OF YOUR GUN
- TYPE OF PAINT BEING SPRAYED
- TYPE OF SURFACE BEING SPRAYED
- TIP WEAR

413

PREMIUM STANDARD TIPS

Orifice size: 0.009" - 0.021"
Angle: 10 - 90

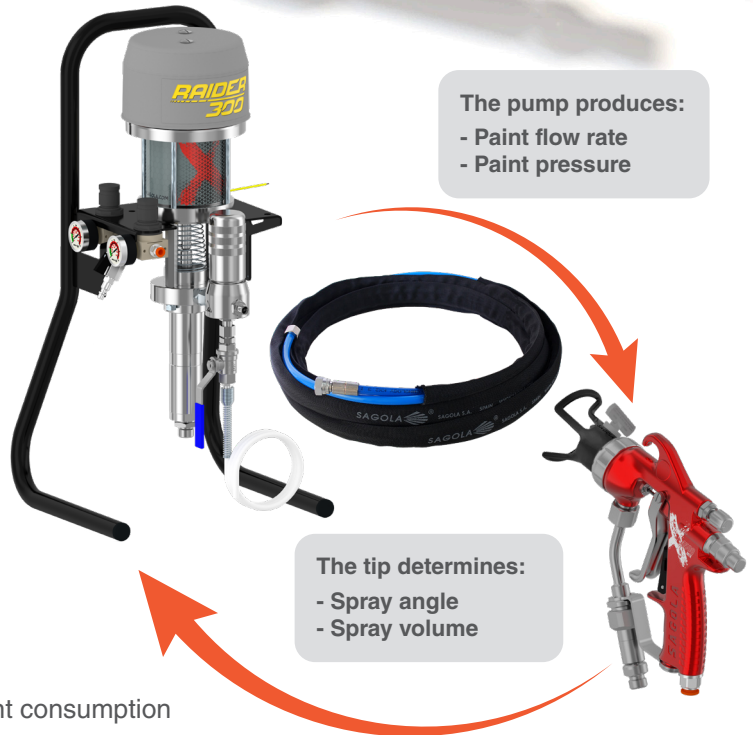
- Max. pressure (200 bar / 2,900 psi)
- Ideal for large projects: residential, industrial and commercial.
- Suitable for all types of materials and applications.

413

LOW PRESSURE FINE FINISH TIPS

Orifice size: 0.009" - 0.021"
Angle: 10 - 70

- Suitable for all types of materials and applications.
- Soft edges, no tails.
- Excellent finish at low pressures.
- Less overspray. Easier pattern overlap.



TIP SELECTION

Sagola uses a colour-coded three-digit system to distinguish between different types of tips.



LP - 413

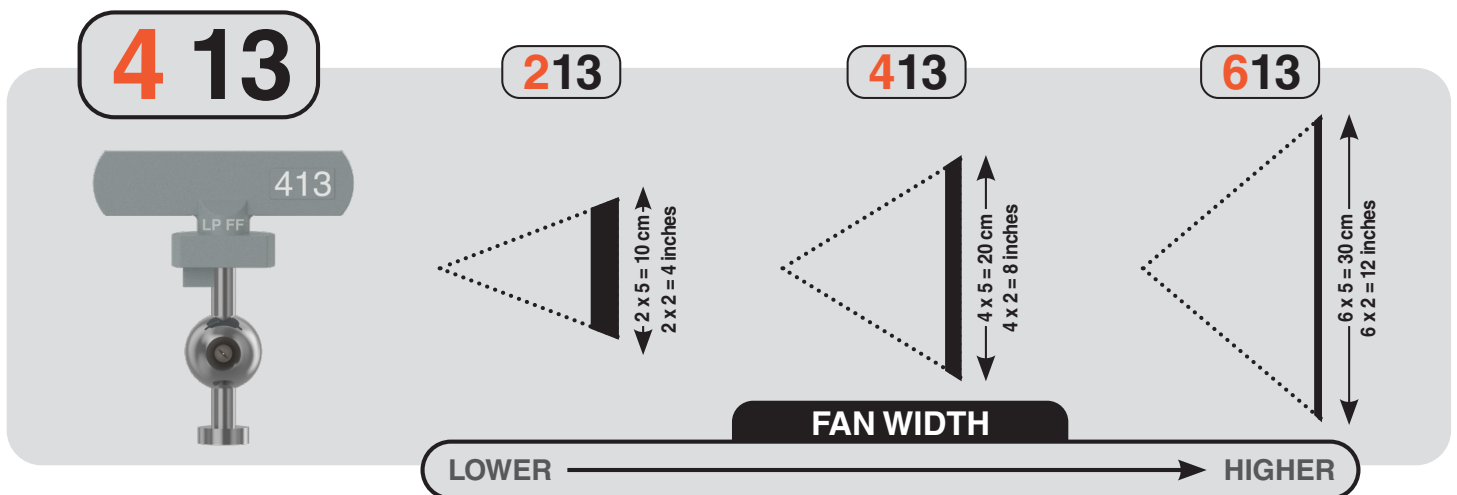


- 1 TIP TECHNOLOGY**
PT (Premium Tips)
LP (Low Pressure)

- 2 FAN PATTERN WIDTH**
The fan width is determined by doubling the first digit.
A 413 model has a fan width of 20 cm (8 inches)
when sprayed at a distance of 30.5 cm (12 inches) from the surface.
 $4 \times 2 = 8$ inch fan width > (Multiply the first digit $\times 2$
to get the fan width in inches)
 $4 \times 5 = 20$ cm. fan width > (Multiply the first digit $\times 5$
to get the fan width in centimetres)

- 3 ORIFICE SIZE**
The last two digits
indicate the orifice
size in thousandths
of an inch. The higher
the number, the
greater the flow rate.

THE HIGHER THE **FIRST NUMBER**,
THE WIDER THE FAN PATTERN

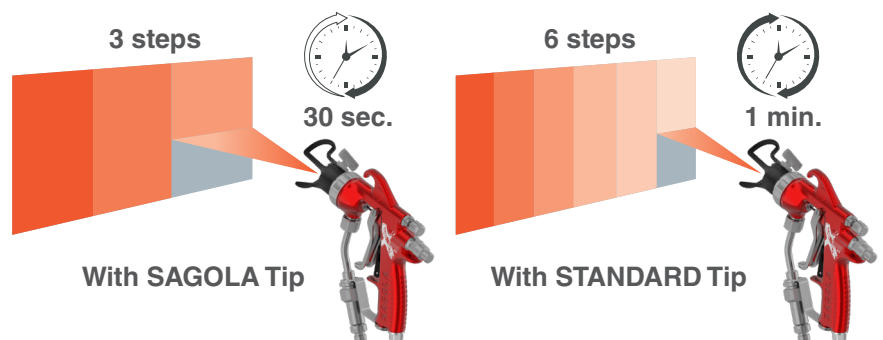


FAN WIDTH

The wider the fan pattern, the faster the surface can be painted. A wider fan significantly improves productivity.

However, it is more difficult to control, and wide fan tips are not available in all sizes.

Sagola offers a special range of Speedy 7 tips, specifically designed to deliver excellent results at wider angles, saving you time.

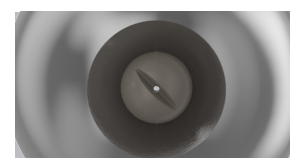


ORIFICE SIZE

Defines the amount of paint that will flow through the tip. It is indicated by the last two digits:
- 13 in this case corresponds to an orifice size of 0.013 inches or 0.33 mm.

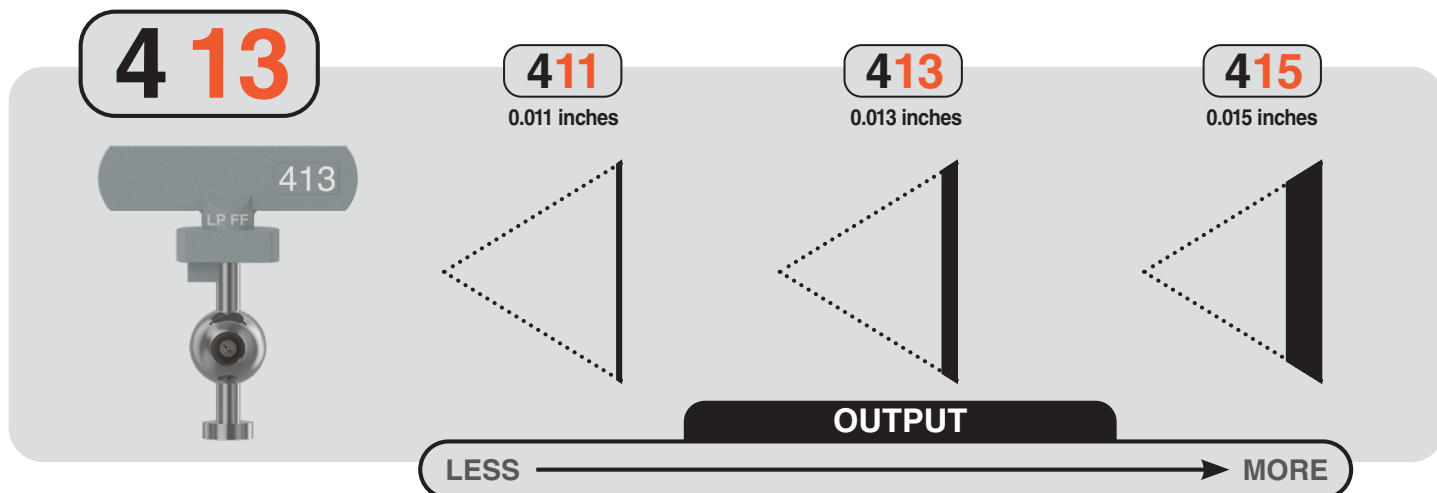
The actual flow rate will depend on the spray pressure and the type of paint used:

HIGHER PRESSURE, HIGHER FLOW RATE
THICKER PAINTS, LOWER FLOW RATE



TIP SELECTION

THE HIGHER THE **LAST TWO NUMBERS**,
THE GREATER THE OUTPUT

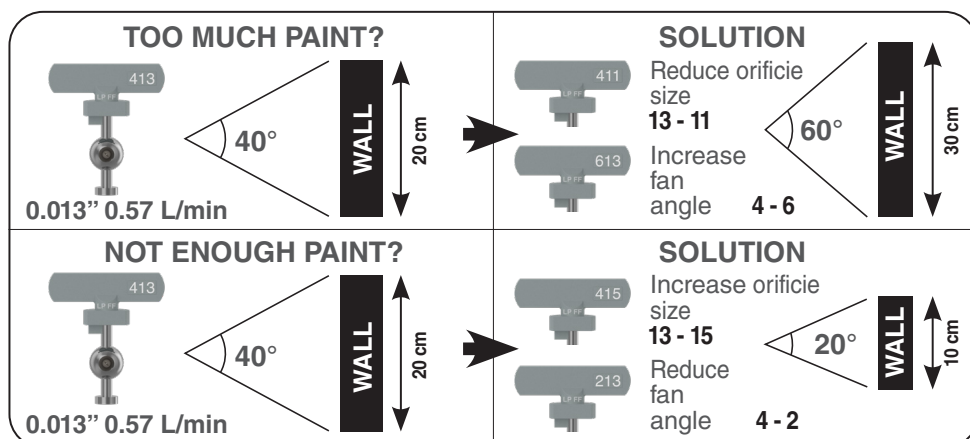


MATCH THE **RIGHT TIP**

With this general information, you will be able to choose the right tip for your application.

Testing different tips will help you become familiar with the product and determine which one is optimal for your needs.

Consult your distributor or your SAGOLA representative for specific recommendations on tip size.



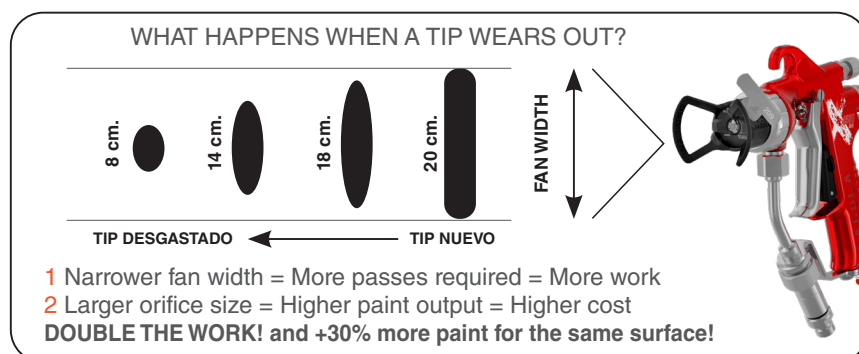
TIPS WEAR OUT AND WILL NEED TO BE REPLACED

THE TWO MAIN CAUSES OF TIP WEAR ARE:

- Spray pressure at the gun
- Abrasive materials

To understand what tip wear is and its impact on your business, think about the similarities between spray tips and drill bits. Have you ever tried to drill concrete with the wrong bit? If so, you'll know it takes much longer, requires much more effort, and the final result is poor.

The same happens when continuing to spray with a worn tip.



Keep in mind that using a worn tip may exceed the maximum output of your spray gun. In the long run, using a worn tip will cost you much more than replacing it (labour + paint)

APPLICATIONS

The type of paint and the surface to be sprayed determine the appropriate tip.
The table below shows the **recommended tips and sizes** for different applications and materials.

Typical applications		Materials	Recommended tip size
LOW PRESSURE - FINE FINISH TIPS			
 Cabinetmaking, carpentry, metalworking and fine finishing surfaces.		Stains	008 - 010
		Inks	010 - 012
		Colorants	012 - 014
		Lacquers	012 - 014
		Oils	012 - 014
		Enamels	012 - 014
		Urethanes	012 - 014
		Automotive finishes	008 - 014
PREMIUM STANDARD TIPS			
 Residential, commercial or industrial projects, both interior and exterior.		Latex	015 - 019
		Acrylics	015 - 019
		Multicolour coatings	023 - 025
		Emulsions	017 - 021
		Fillers	023 - 025
		Silicone	021 - 025
PREMIUM STANDARD TIPS - RESISTENTE			
 High-performance production on large surfaces. For residential, commercial and industrial projects. Interior and exterior paint application, as well as airless plaster application		Fillers	027 - 031
		Intumescent coatings	029 - 035
		Spackling compound	029 - 041
		Elastomeric coatings	027 - 033
		Putties	041 - 047
		Epoxies	043 - 061
		Fibre-reinforced coatings	047 - 053
		Asphalt coatings	031 - 071
		Silicate / mineral coatings	027 - 033
		Contact cement	-

FILTER TYPES

Use the correct filter to reduce tip clogging.

			
	Ref. 83660037	Ref. 56418053	Ref. 56418054
MESH SIZE	100 SHEETS	100 MESH	60 MESH
NOZZLE SIZE	0.007 - 0.013 inches	0.007 - 0.013 inches	0.013 - 0.018 inches

SWIVEL HEAD

- Allows quick and precise rotation of the tip from horizontal to vertical fan pattern, without tools or with minimal intervention.
- Supports fluid pressures up to 200 bar.
- Fine atomisation, “soft spray” and improved transfer efficiency.
- Easy to disassemble, accessible and quick to clean.

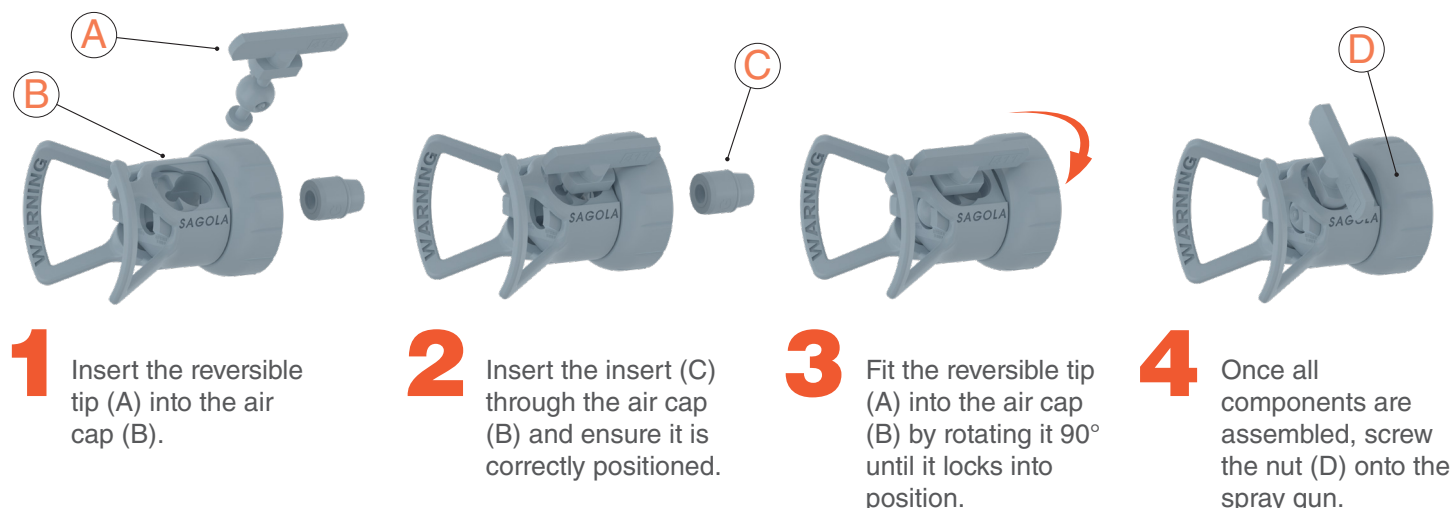


Swivel head

Ref.
81450000

SWIVEL HEAD INSTALLATION

Follow the gun pressure relief procedure. Engage the trigger lock.



PT TIP VERSIONS

All tips shown in the spray tip selection charts below can be used with the SAGOLA X4500 spray gun equipped with a Hybrid Swivel Head (AAA).

PREMIUM STANDARD TIPS

Tips designed for general high-productivity applications.

- Operate within standard pressure ranges (medium to high pressure).
- Higher material flow rate.
- High coverage capacity.
- Suitable for large surfaces.
- Good balance between performance and finish quality.
- Ideal for productivity-driven processes.



TIP VERSIONS

PT TECHNOLOGY

Ref.	TIP	ORIFICE	FAN WIDTH		FLOW RATE	
		Inches	Inches	Centimeters	Gal / min.	L / min.
81450209	209 PT	0.007	4 - 6	10.2 - 15.2	0.05	0.18
81450409	409 PT	0.009	8 - 10	20.3 - 25.4	0.07	0.25
81450609	609 PT	0.009	12 - 14	30.5 - 35.6	0.07	0.25
81450211	211 PT	0.011	4 - 6	10.2 - 15.2	0.10	0.37
81450411	411 PT	0.011	8 - 10	20.3 - 25.4	0.10	0.37
81450611	611 PT	0.011	12 - 14	30.5 - 35.6	0.10	0.37
81450811	811 PT	0.011	16 - 18	40.6 - 45.7	0.10	0.37
81450213	213 PT	0.013	4 - 6	10.2 - 15.2	0.15	0.57
81450413	413 PT	0.013	8 - 10	20.3 - 25.4	0.15	0.57
81450613	613 PT	0.013	12 - 14	30.5 - 35.6	0.15	0.57
81450813	813 PT	0.013	16 - 18	40.6 - 45.7	0.15	0.57
81450415	415 PT	0.015	8 - 10	20.3 - 25.4	0.19	0.72
81450615	615 PT	0.015	12 - 14	30.5 - 35.6	0.19	0.72
81450815	815 PT	0.015	16 - 18	40.6 - 45.7	0.19	0.72
81450417	417 PT	0.017	8 - 10	20.3 - 25.4	0.26	0.98
81450617	617 PT	0.017	12 - 14	30.5 - 35.6	0.26	0.98
81450817	817 PT	0.017	16 - 18	40.6 - 45.7	0.26	0.98
81450419	419 PT	0.019	8 - 10	20.3 - 25.4	0.34	1.30
81450619	619 PT	0.019	12 - 14	30.5 - 35.6	0.34	1.30
81450819	819 PT	0.019	16 - 18	40.6 - 45.7	0.34	1.30
81450421	421 PT	0.021	8 - 10	20.3 - 25.4	0.40	1.52
81450621	621 PT	0.021	12 - 14	30.5 - 35.6	0.40	1.52
81450821	821 PT	0.021	16 - 18	40.6 - 45.7	0.40	1.52

*Flow rate calculated for water at 1,450 psi (100 bar, 10 MPa). FAN WIDTH is measured at 305 mm (12") from the surface

LP/FF TIP VERSIONS

All tips shown in the spray tip selection charts below can be used with the SAGOLA X4500 spray gun equipped with a Hybrid Swivel Head (AAA).

LOW PRESSURE / FINE FINISH TIPS

Tips designed for higher-quality finishes at lower pressure.

- Lower operating pressure.
- Lower material flow rate.
- Finer atomisation.
- Reduced overspray.
- Higher transfer efficiency.
- Ideal for applications requiring maximum finish control.



TIP VERSIONS

LP / FF TECHNOLOGY

Ref.	TIP	ORIFICE	FAN WIDTH		FLOW RATE	
		Inches	Inches	Centimeters	Gal / min.	L / min.
81451209	209 LPFF	0.007	4 - 6	10.2 - 15.2	0.05	0.18
81451409	409 LPFF	0.009	8 - 10	20.3 - 25.4	0.07	0.25
81451609	609 LPFF	0.009	12 - 14	30.5 - 35.6	0.07	0.25
81451211	211 LPFF	0.011	4 - 6	10.2 - 15.2	0.10	0.37
81451411	411 LPFF	0.011	8 - 10	20.3 - 25.4	0.10	0.37
81451611	611 LPFF	0.011	12 - 14	30.5 - 35.6	0.10	0.37
81451811	811 LPFF	0.011	16 - 18	40.6 - 45.7	0.10	0.37
81451213	213 LPFF	0.013	4 - 6	10.2 - 15.2	0.15	0.57
81451413	413 LPFF	0.013	8 - 10	20.3 - 25.4	0.15	0.57
81451613	613 LPFF	0.013	12 - 14	30.5 - 35.6	0.15	0.57
81451813	813 LPFF	0.013	16 - 18	40.6 - 45.7	0.15	0.57
81451415	415 LPFF	0.015	8 - 10	20.3 - 25.4	0.19	0.72
81451615	615 LPFF	0.015	12 - 14	30.5 - 35.6	0.19	0.72
81451815	815 LPFF	0.015	16 - 18	40.6 - 45.7	0.19	0.72
81451417	417 LPFF	0.017	8 - 10	20.3 - 25.4	0.26	0.98
81451617	617 LPFF	0.017	12 - 14	30.5 - 35.6	0.26	0.98
81451817	817 LPFF	0.017	16 - 18	40.6 - 45.7	0.26	0.98
81451419	419 LPFF	0.019	8 - 10	20.3 - 25.4	0.34	1.30
81451619	619 LPFF	0.019	12 - 14	30.5 - 35.6	0.34	1.30
81451819	819 LPFF	0.019	16 - 18	40.6 - 45.7	0.34	1.30
81451421	421 LPFF	0.021	8 - 10	20.3 - 25.4	0.40	1.52
81451621	621 LPFF	0.021	12 - 14	30.5 - 35.6	0.40	1.52
81451821	821 LPFF	0.021	16 - 18	40.6 - 45.7	0.40	1.52

*Flow rate calculated for water at 1,450 psi (100 bar, 10 MPa). FAN WIDTH is measured at 305 mm (12") from the surface

NOTE

For identification and ordering, the reference follows the format **81450XXX** (Premium Standard Tip) or **81451XXX** (Low Pressure / Fine Finish), where **XXX** corresponds to the three-digit tip code, matching the last three digits of the reference.



SAGOLA is not responsible for any damage or defects caused by spray guns that resemble original products. These guns are imitations that **HAVE NOT BEEN MANUFACTURED BY SAGOLA, S.A.U.**

SAGOLA S.A.U. products are sold exclusively through our distributors, with spare parts available and a worldwide 3-year warranty against design and/or manufacturing defects.

ISO CERTIFICATIONS



SAGOLA S.A.U. has always proudly demonstrated the quality of its products, but in recent years, in response to increasingly demanding customers, it has obtained certifications that guarantee its expertise and outstanding organisational quality.