

CP COOPER PEGLER

SPRAYING TECHNOLOGY



PROFESSIONAL SPRAYERS

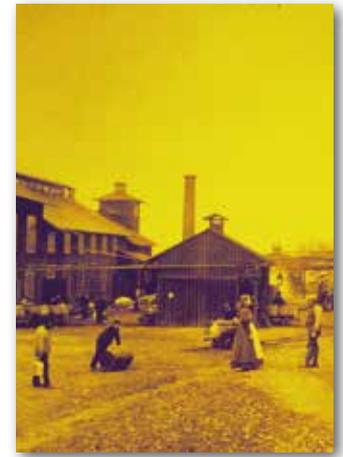


CATALOGUE N°16

COOPER PEGLER, The specialist for professionals

“Cooper Pegler’s mission is to guarantee users disease free crops using reliable, precise and efficient sprayers that they are taught how to use and maintain. It is our goal to continue to produce the most robust, reliable and user-friendly sprayers on the market.”

For over 100 years Cooper Pegler has specialised in the development and manufacture of sprayers for the application of crop protection treatments. In 1995 Cooper Pegler was integrated into the Hardi Group and in 2007 into Exel Industries– the world’s largest manufacturer of crop care equipment. Exel industries’ specialised knowledge in application technology and manufacturing skills together with Cooper Pegler’s century long experience and presence in the world market **is integrated into every product we make today, as well as in the wide range of accessories and spare parts.**



A DROP IN THE RIGHT PLACE:

Crop spraying plays a crucial role in protecting the world’s crops against diseases. To ensure that yield losses are kept as low as possible whilst optimising the use of phytosanitary treatments, it is vital that the delivery of crop protection liquids is efficient, punctual and precise.

DEDICATION AND SPECIALISATION:

Knapsack sprayers have always been the core products of Cooper Pegler. Close liaison with chemical manufacturers and continuous product development to meet the evolving needs of the future ensure that Cooper Pegler continues to set the benchmark for quality around the world for safe, punctual and precise delivery of a liquid from a sprayer tank to its intended destination. We stay committed to maintaining and advancing with **a wider range including Battery powered sprayers, Ultra Low Volume** in order to answer all types of needs. **Our Maxi Pro Compression sprayers have also been improved for greater comfort and safety.**

PRODUCTION & QUALITY:

Ensuring reliability and precision of a high quality sprayer entails tight control over all production conditions. Therefore, all main Cooper Pegler products and components are assembled at our **factory in France by a skilled and quality conscious workforce.**

- Up to 95% assembled in-house
- ISO v 2008 certification
- Quality check 2000 hours of simulated use and many quality checks per day on each production lot.



COOPER PEGLER BRAND

SERVICE AND SUPPORT:

Cooper Pegler products are robust to provide years of reliable use. Through an efficient service network operated by selected agrochemical manufacturers, distributors and agents, we ensure that replacement components are readily available and promptly despatched to users wherever in the world they may be. The same prompt service also applies to the practical and technical advice we can offer either by phone or via our website **www.cooper-pegler.com**

AN INTERNATIONAL SETTING:

The Cooper Pegler brand is present on the European, African and Latin-American continents, selling 75% of its turnover outside of Great Britain, its native country. In the main zones where agricultural crops are manually maintained, Cooper Pegler sprayers have proved their robust and reliable characteristics, essential when choosing professional equipment.

EDUCATION:

Cooper Pegler's mission is not only to manufacture reliable and efficient sprayers but also to enable users around the world to achieve disease free crops with reliable and efficient sprayers that they are taught how to use and maintain. To realise this aim, we support our products with thorough **field education programmes covering operation, maintenance and safe use**. Because educational requirements can vary considerably from one country to another, and from one application to another, **we tailor all our programmes** to meet the user's precise needs.



Specialists in spraying technology, Cooper Pegler is recognised worldwide for its conceiving and manufacturing of high quality products: for every product in its range the brand commits itself to offer :

- . **Robust and lightweight design**
- . **Wide range of accessories**
- . **Very few wearing parts**
- . **Low cost maintenance**
- . **All parts readily available and easily changed.**



LANCE AND TRIGGER

- Very durable and corrosion resistant
- Polypropylene fibreglass reinforced tube
- Very ergonomic (comfortable for intensive use)
- Radial Viton O-rings for good chemical resistance
- Filter for secondary filtration
- Lock "off" safety function
- Brass piston in the trigger

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THE ORIGINAL

A stamp "THE ORIGINAL - since 1894" has been created to mark authentic CP products: it now appears on product labels to distinguish against copies.



On the new box, you will also find the following text:
«Counterfeit copies are illegal and of poor quality. Care should be taken as these products are not manufactured in accordance with Cooper Pegler's rigorous reliability, build and safety standards.»

ASK FOR THE ORIGINAL SPARE PARTS!

The crank and the diaphragm are key parts for the reliability of any knapsack: if replaced by poor-quality spare parts, the sprayer can under-perform or even be durably and irreversibly damaged. To quickly authenticate these parts, look for the **Cooper Pegler stamp**.

Crank



Diaphragm



A poster is also available to highlight the importance of using original sprayers and parts to the end-user: ref 584 166

PACKAGING

The complete CP packaging range has been revised with the aim of giving better product visibility and readability. While remaining consistent with the CP brand image, the new boxes focus more on technical information and end-user benefits in order to emphasize our differences from our competitors.

Front face



Product enhanced

Back face



Focused on the authenticity and history of the brand + nozzle description (For improved security, all cardboard boxes are now strapped)



Detailed technical view. Draws attention to the CP complementary range of accessories, with picture illustration

SALES TOOLS

Cooper Pegler provides educational tools to assist end users with their product choice and to maintain their sprayer in good working condition.

SPARE PARTS POSTER:

Perfect for recognizing which spare needs replacing, check its location in the sprayer composition and order it using the correct reference number. The poster dimensions (48 x 68 cm) are convenient for an easy identification of any spare part, either by reference number or picture.

Available for:
CP 15 / CP 3, CP 15 / CP 3 serie 2000



CP SERVICE CASE :

For fast and efficient repairs. For each sprayer (CP Evolution, Classic and 2000 series), the service case includes all CP consumables, such as seals, nozzles and all the small parts that can be lost (balls, screws...). Enough to make 150 repairs.



Ref. 283581 :
CP Serie 2000
Service Case

Ref.283579 :
CP Evolution
CP Classic
Service Case

WEBSITE : www.cooper-pegler.com

1. Open access

To help the end-user choose prior to purchase



Product flyers: Product and accessories presentation



Documents: Pdf catalogue, videos...



User advice

2. A reserved access for customers (log in + password)

Sales tools and answers to technical questions (maintenance and repairing)



Sales tools presentation



Spare parts catalogue



Problem solving



Spare parts breakdowns

CP 1,5



FOR EVERYDAY PROFESSIONAL USE

Handhelds are lightweight, small and primarily designed for spot treatment as professional and durable complementary sprayers.

They come in just as handy for indoor and outdoor plant treatment as for household chores (cleaning, dousing pets with insecticides...).

TOTAL CAPACITY 2 L / USER CAPACITY 1.5 L

Using a compact hand pump to build up air pressure within the bottle to force the liquid out as a continuous stream as long as the trigger button is held down.



Adjustable nozzle with brass insert

Pump with integral pressure relief valve

Ergonomic grip

Graduated polypropylene tank

| | CP 1,5 |
|----------------------------|---------------|
| Reference | 846248 |
| Tank litres | 2 L |
| Filling limit | 1,5 L |
| Material | Polypropylene |
| Dimensions HxW (mm) | 300 x 142 |
| Weight (Kg) | 0,455 |
| PCB | 6 |



SIMPLICITY AND ACCURACY

Designed to meet the needs of both the home gardener and the horticulturalist requiring professional results, the CP compression sprayers offer you performance and comfort.

Their new robust and ergonomic shape allows the sprayer to be emptied completely (no retention zone) and ensures both efficient pumping (only 20 pump strokes to achieve working pressure) and ease of use.

Its safety valve releases at 3 bars -with only 0.2 bar loss - ideal for all insecticide and fungicide applications.

AVAILABLE IN TWO SIZES: 5 AND 8 LITRES SPRAYING CAPACITY



VERSATILE (FOR GARDENS AND DIY) WITH VITON® ULTRA HIGH RESISTANCE SEALS



Wide opening for easy filling emptying and cleaning
9 cm

Nozzle on multi-nozzle adapter

| Color | Volume (L/ha) |
|--------|---------------|
| Yellow | 140 |
| Green | 50 |



Nozzles included: Yellow hollow cone and green anvil

Safety valve with maximum pressure at 3 bar – manual sprayer decompression for secure opening

Comfortable carrying handle

Lance locking facility

High resistance GRP (Glassfibre Reinforced Plastic) lance

Transparent tank with moulded indicator for accuracy

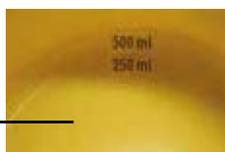
Professional trigger system with integrated filter

Adjustable, non-absorbent shoulder strap

Reinforced hose for greater pressure resistance

Wide base/high stability tank

Internal gauges



| | CP 5 | CP 8 |
|----------------------------|---------------|-----------|
| Reference | 846249 | 846250 |
| Tank litres | 7,2 L | 11,2 L |
| Filling limit | 5 L | 8 L |
| Material | Polypropilene | |
| Dimensions HxW (mm) | 380 x 200 | 550 x 200 |
| Weight (Kg) | 1,55 | 2,28 |
| Lance length | 370 mm | 500 mm |
| Hose length | 1000 mm | |

DIAPHRAGM TECHNOLOGY



DURABLE, ACCURATE AND SIMPLY MORE EFFICIENT

Diaphragm pumps have been used for decades, proving to be the most durable, robust and accurate: they are well suited for intensive applications even under very harsh conditions.

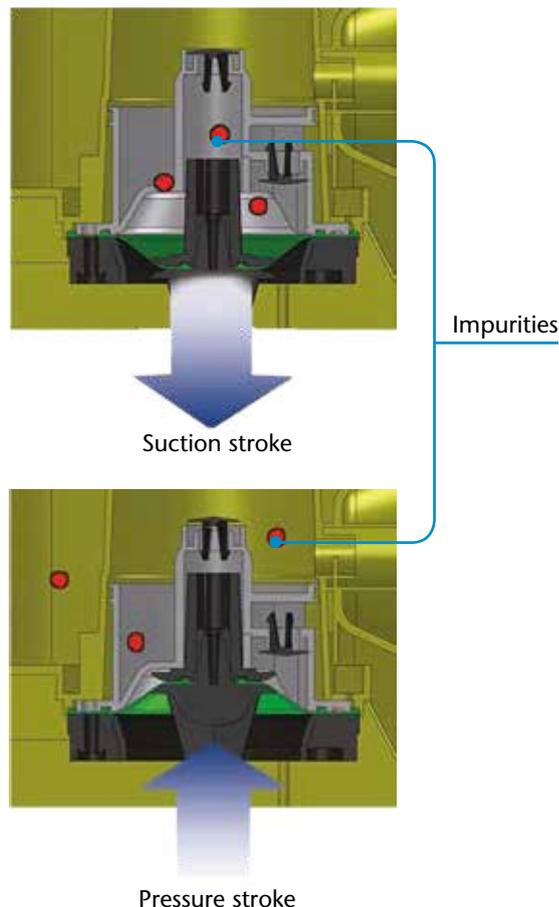
**Diaphragm technology available on these sprayers:
CP EVOLUTION AND CP CLASSIC**

With no direct friction between the diaphragm and the surfaces, pumping is made **easier and more comfortable** compared to a piston pump. Its volume per stroke is also higher. Therefore the CP diaphragm sprayers require no service maintenance nor lubrication other than routine cleaning, resulting in a **long-life product**.

Wear resistant: the unique pump tolerates abrasive particles, like wettable powders and dirty water with no risk of damaging the sprayer.



Thanks to its combined thickness and flexibility (specific technical plastic material: technopolymer), the CP diaphragm is highly hermetic and resistant, ensuring long-life and performance from the sprayer.



The diaphragm pump system generates pressure through the deformation of the very flexible diaphragm.



RELIEF VALVE

To avoid overdosing, the **relief valve** limits the pressure to the maximum level (either on the low setting – for herbicides – or on high – for insecticides and fungicides) and simply sends the excess liquid back to the tank. It limits unnecessary effort and protects the sprayer. Safety: the spray tank is not pressurized and spraying is controlled from the trigger valve.



A REVOLUTIONARY SYSTEM WITH SHOULDER STRAPS AND WAIST BELT FOR MAXIMUM COMFORT

looks after the user's back to work better and longer

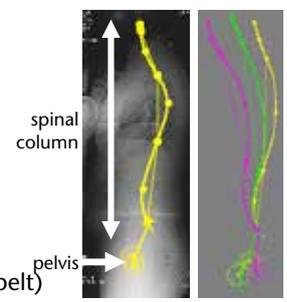
SAFETY HARNESS available on these sprayers:
CP 15 EVOLUTION AND CP 3 EVOLUTION



REDUCTION OF NEGATIVE IMPACTS ON THE SPINAL COLUMN AND THE PELVIS

Measurements of the difference between the classic carrying system and an ergonomic carrying system on the subject's back

- █ X-ray at rest
- █ X-ray after 20 minutes with sprayer + classic carrying system (thin shoulder straps)
- █ X-ray after 20 minutes with sprayer + ergonomic carrying system (shoulder straps + waist belt)



SIGNIFICANT REDUCTION IN ARDUOUSNESS CAUSED BY THE SPRAYER



AN OPTIMIZED DESIGN FOR THE SAFETY HARNESS

Adjustable straps with reinforced foam and tensioners
Adjusts to the user's morphology
Protects the user's shoulders

Chest strap
Ensures sprayer stability
Alleviates lateral tension

Adjustable waist strap
Sprayer weight distribution:
70% on the hips / 30% on the shoulders. Ensures sprayer stability

Reinforced back support
No direct contact with the tank for improved comfort



CP 15 EVOLUTION



AVAILABLE IN 15 L

THIS ITEM HAS EVOLVED TO MAKE IT MORE CONVENIENT TO CARRY

For more than 20 years the CP15 has been the favourite sprayer for users in agriculture, horticulture and parks and gardens all over the world, thanks to its unbeatable durability, toughness and spray quality. The CP15 Evolution can now be equipped with a revolutionary new ergonomic carrying system with ultra-comfortable shoulder straps and waist belt to work better and longer. It is also fitted with two handles on the tank for easy handling. Its unique membrane pump system ensures a long life for the equipment and maximum convenience in spraying thanks to its flexible pumping.

Carrying handle

Pressure control valve with fixed settings for spraying herbicides/ insecticides and fungicides



Unique diaphragm pump, very resistant

Adjustable re-inforced lever for left / right hand operation

UV stabilised polypropylene tank for a durable yet lightweight sprayer

All working parts mounted inside the tank to prevent damage

Nozzles included: Yellow hollow cone and green anvil

| Color | Volume (L/ha) |
|--------|---------------|
| Yellow | 140 |
| Green | 50 |



Nozzle on multi-nozzle adapter

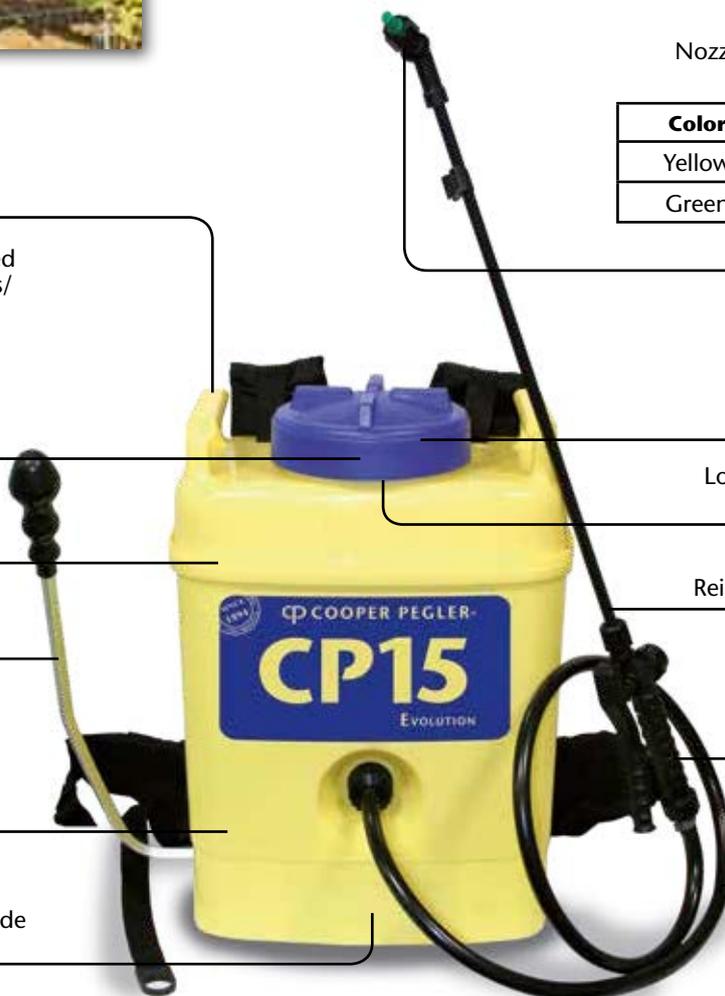
Wide filler hole to prevent overflow when filling

Low mesh strainer to filter out dirt, Supplementary filter in trigger

High resistance GRP (Glassfibre Reinforced Plastic) lance and trigger

High resistance glassfibre reinforced plastic trigger with filter

Reinforced hose for greater pressure resistance



Standard harness
Support + carrying handle



Safety Harness
Adjustable waist strap and reinforced back, Significant reduction in discomfort



| | CP 15 EVOLUTION Standard Harness | CP 15 EVOLUTION CONFORT Safety Harness |
|------------------------------------|--|---|
| Reference by full container | 848150 | 848152 |
| Reference by unit | 848257 | 848258 |
| Tank litres | 15 L | |
| Material | Polypropylene | |
| Filler neck | 140 mm | |
| Max working pressure | 3 bar (45 psi) | |
| Total weight | 3,95 kg | 4,25 kg |
| Harness material | Polyethylene pads with polyester | Polyethylene pads with polyester fibre braiding + reinforced foam |
| Lance length | 500 mm | |
| Hose length | 1360 mm | |

CP 3 EVOLUTION



STANDARD OR SAFETY HARNESS

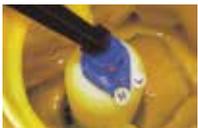
Ideal complement to the CP15 Evolution, the new 20 litre capacity CP 3 provides greater work autonomy.

Its unique diaphragm pump system ensures the longevity of the sprayer as well as an adequate and precise protection for your crops. Its built-in pressure relief valve guarantees precision on the type of application desired.

AVAILABLE IN 20 L

Lid with separate seal and air vent for secure locking

Pressure control valve with fixed settings for spraying herbicides / insecticides and fungicides



High resistance GRP (Glassfibre Reinforced Plastic) lance

Few moving parts of which none are exposed to friction, thus ensuring resistance to dirt in the spray liquid and a very low maintenance level.

Nozzle on multi-nozzle adapter

Nozzles included: Yellow hollow cone and green anvil

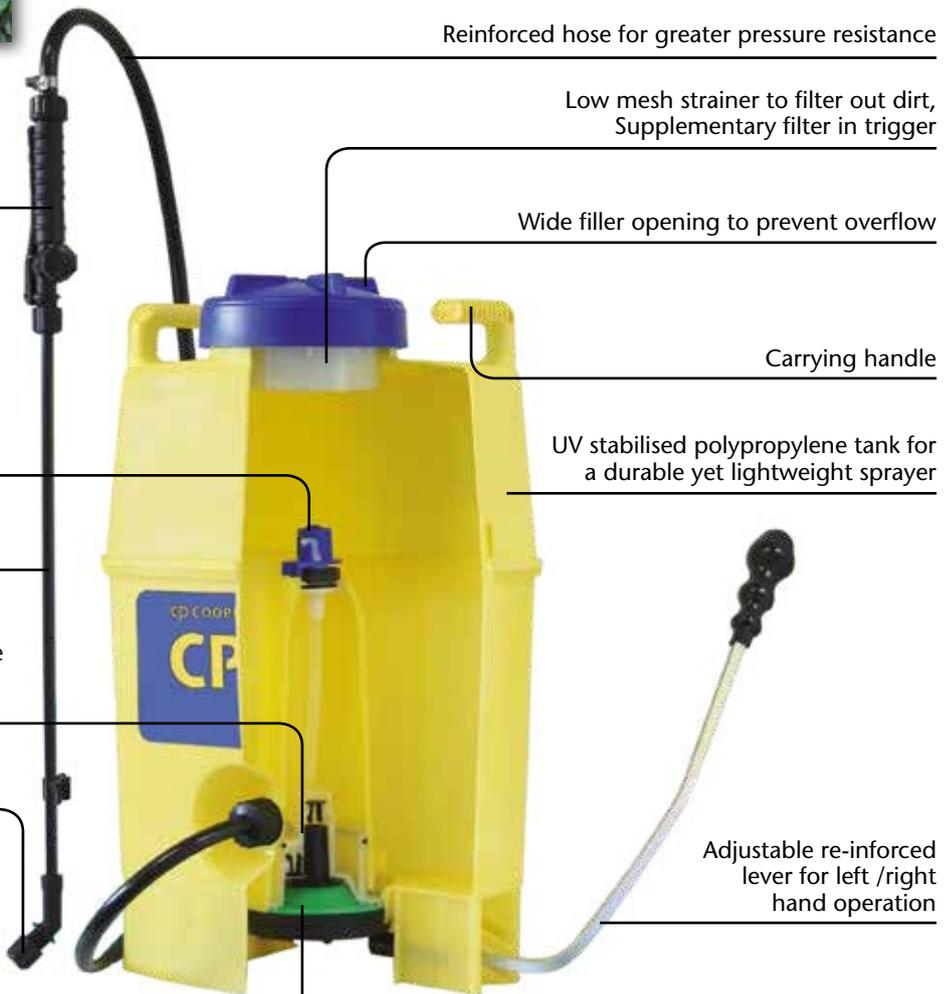


| Color | Volume (L/ha) |
|--------|---------------|
| Yellow | 140 |
| Green | 50 |

Unique diaphragm pump very resistant towards water impurities

Safety Harness

Adjustable waist strap and reinforced back. Significant reduction in discomfort



Reinforced hose for greater pressure resistance

Low mesh strainer to filter out dirt, Supplementary filter in trigger

Wide filler opening to prevent overflow

Carrying handle

UV stabilised polypropylene tank for a durable yet lightweight sprayer

Adjustable re-inforced lever for left /right hand operation

CP3 EVOLUTION Safety harness

| | |
|-----------------------------|---|
| Reference by full container | 848252 |
| Reference by unit | 848255 |
| Tank litres | 20 L |
| Material | Polypropylene |
| Filler neck | 140 mm |
| Max working pressure | 3 bar (45 psi) |
| Total weight | 4,75 kg |
| Harness material | Polyethylene pads with polyester fibre braiding + reinforced foam |
| Lance length | 500 mm |
| Hose length | 1360 mm |

CP CLASSIC



ROBUST AND ERGONOMIC

For more than 3 decades the CP Classic range has been the preferred choice by agricultural, horticultural and amenity users world-wide, as the most durable, robust and accurate agro-chemical applicator.

Its unique diaphragm pump system and integrated pressure control system ensure many years of tranquility and adequate and accurate protection of your crops. Its ergonomic conception gives greater comfort when performing intensive tasks.

AVAILABLE IN TWO SIZES: 15 AND 20 L

Reinforced hose for greater pressure resistance

Lid with separate seal and air vent for secure locking

Wide filler hole to prevent overflow when filling

UV stabilised polypropylene tank for a durable yet lightweight sprayer

Brass components for excellent durability

All working parts mounted inside the tank to prevent damage

Unique diaphragm pump very resistant towards water impurities

Low mesh strainer to filter out dirt, Supplementary filter in trigger

High resistance GRP (Glassfibre Reinforced Plastic) lance

Pressure control valve with fixed settings for spraying herbicides / insecticides and fungicides



Few moving parts of which none are exposed to friction, thus ensuring resistance to dirt in the spray liquid and a very low maintenance level

Adjustable re-inforced lever for left / right hand operation

Ergonomic reinforcement / Parts protected from damage by tank skirt

Nozzle on multi-nozzle adapter
Nozzles included: Yellow hollow cone and green anvil

| Color | Volume (L/ha) |
|--------|---------------|
| Yellow | 140 |
| Green | 50 |



Measuring jug included



* depending on model

Straps with support and carrying handle



| | CP 15 CLASSIC | CP3 CLASSIC |
|-----------------------------|---|-------------|
| Reference | 846255 | 846320 |
| Tank litres | 15 L | 20 L |
| Material | Polypropylene | |
| Filler neck | 140 mm | |
| Max working pressure | 3 bar (45 psi) | |
| Total weight | 4,75 kg | 5 kg |
| Harness material | Polyethylene pads with polyester fibre braiding | |
| Lance length | 500 mm | |
| Hose length | 1360 mm | |



ERGONOMIC AND EFFICIENT

With its unique ergonomic design and build to meet international standards, the 2000 series is the most comfortable, safe and capable piston pump knapsack sprayer (wide pressure range)

The non-corrosive polypropylene tank, with no opening below the liquid level, substantially reduces any chance of user contamination. The sprayer is comprised of few parts and can be quickly dismantled for cleaning and maintenance without the use of tools.

Spraying is controlled from the trigger valve.

AVAILABLE IN TWO SIZES: 15 AND 20 L

Reinforced hose for greater pressure resistance

Exceptionally strong lance made from composite material for extended life

Lance holder for tidy storage

Carry grip for easy handling



Nozzle on multi-nozzle adapter (with a pressure regulator)

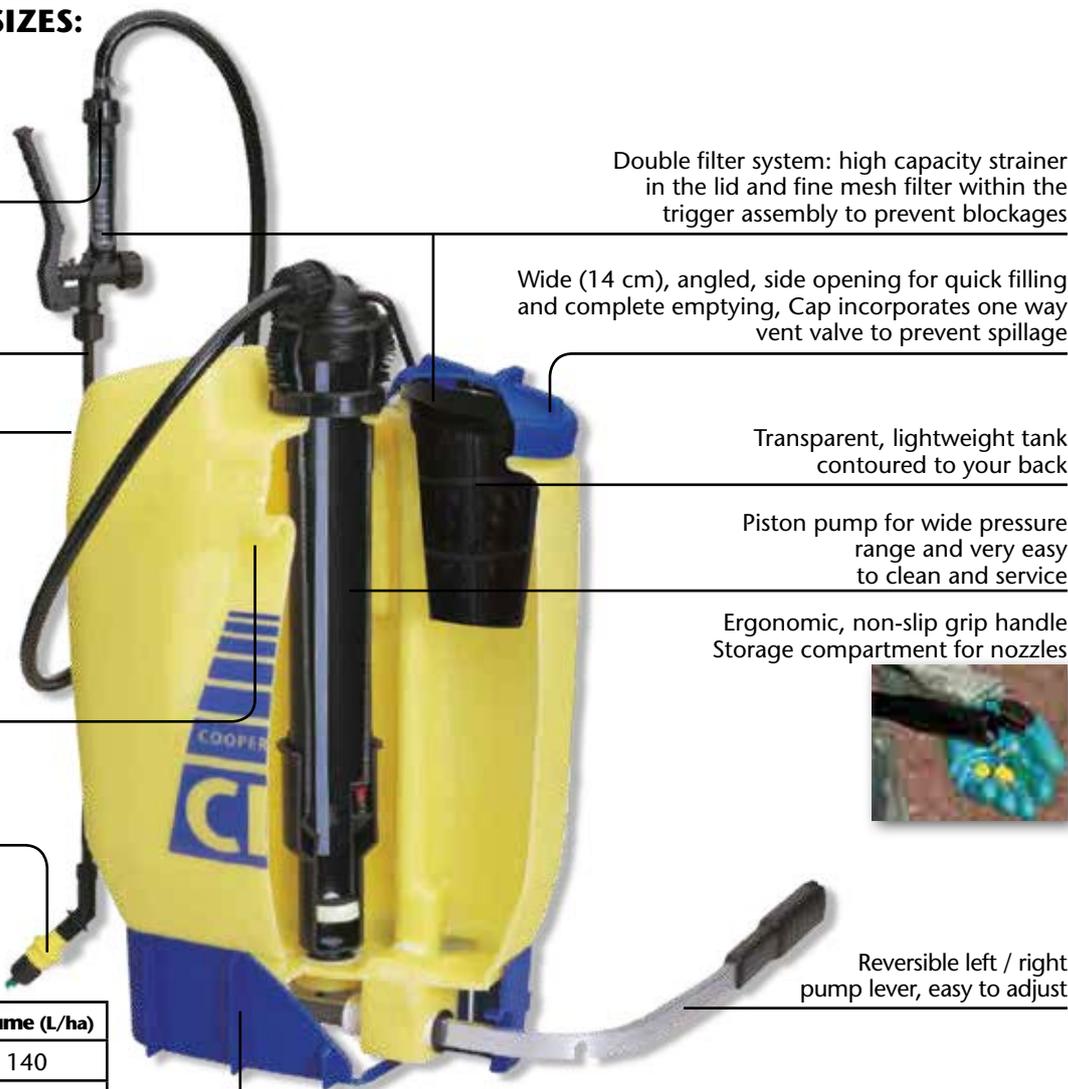
Nozzles included:
Yellow hollow cone
and green anvil



| Color | Volume (L/ha) |
|--------|---------------|
| Yellow | 140 |
| Green | 50 |

Parts protected from damage by tank skirt

Easily adjustable shoulder harness with comfortable non absorbent shoulder pads. Belt with snap buckle to prevent lateral movement



Double filter system: high capacity strainer in the lid and fine mesh filter within the trigger assembly to prevent blockages

Wide (14 cm), angled, side opening for quick filling and complete emptying, Cap incorporates one way vent valve to prevent spillage

Transparent, lightweight tank contoured to your back

Piston pump for wide pressure range and very easy to clean and service

Ergonomic, non-slip grip handle
Storage compartment for nozzles



Reversible left / right pump lever, easy to adjust

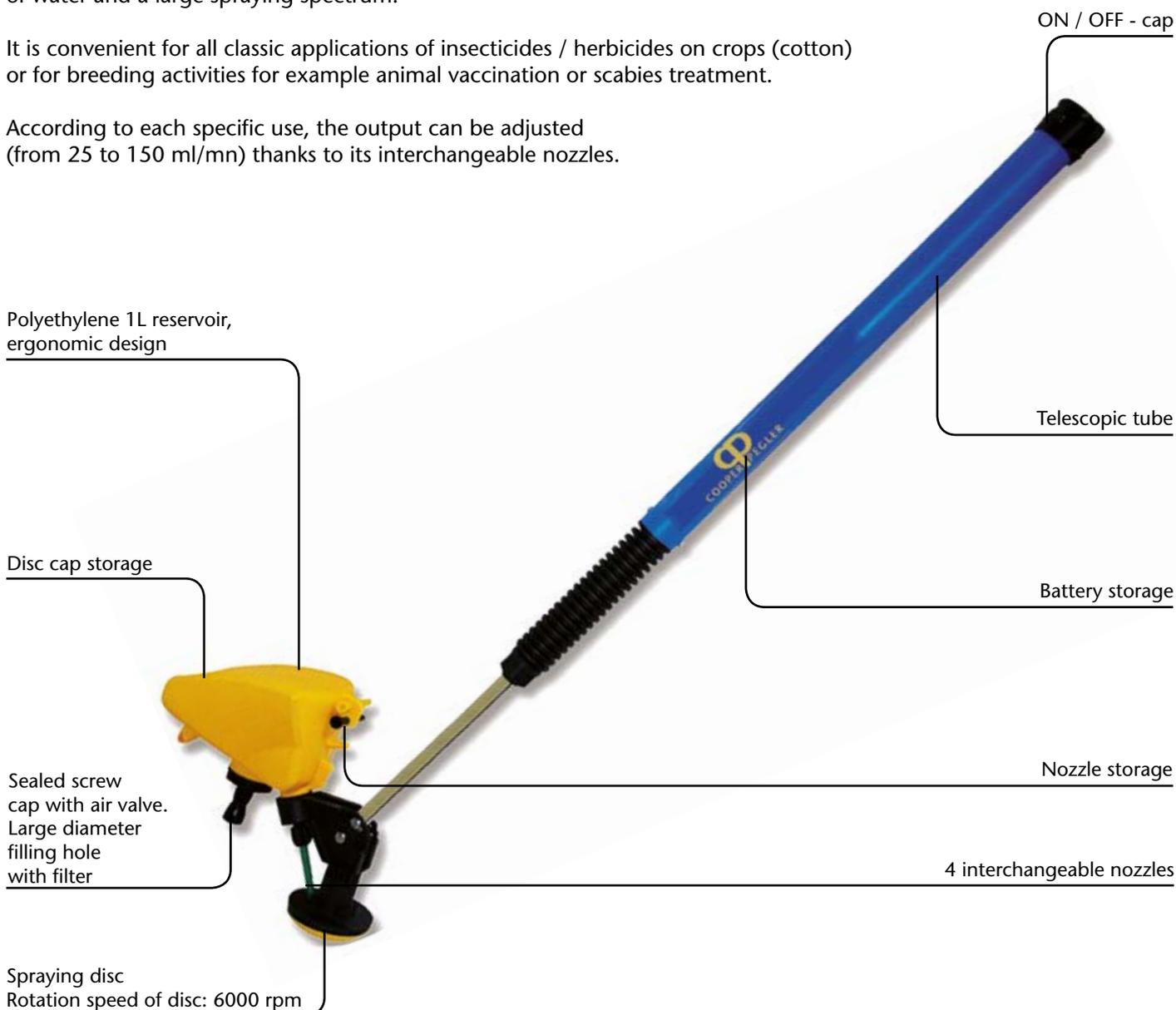
| | CP 15 2000 | CP3 2000 |
|-----------------------------|---|----------|
| Reference | 846341 | 846361 |
| Tank litres | 15 L | 20 L |
| Material | Polypropylene | |
| Filler neck | 140 mm | |
| Max working pressure | 3 bar (45 psi) | |
| Total weight | 4.75 kg | 5 kg |
| Harness material | Polyethylene pads with polyester fibre braiding | |
| Lance length | 500 mm | |
| Hose length | 1140 mm | |

FOR A CONSTANT AND HOMOGENOUS ATOMIZATION

The CP Ultra Low Volume Sprayer is ideal for all treatments requiring a low consumption of water and a large spraying spectrum.

It is convenient for all classic applications of insecticides / herbicides on crops (cotton) or for breeding activities for example animal vaccination or scabies treatment.

According to each specific use, the output can be adjusted (from 25 to 150 ml/mn) thanks to its interchangeable nozzles.



| | | |
|-----------|-----------|----------|
| CP ULV | Reference | 848104 |
| | Weight | 1,066 kg |

| | | | | | |
|---------------------|-----------|--|--------------------|------------------|------------------|
| Number of batteries | | 5 batteries 1,5 volt | | | |
| Autonomy | | around 8 hours | | | |
| Reservoir capacity | | 1 litre | | | |
| Nozzles | | Output/hectare at a speed of 3.6 km/h for a width of | | | |
| Colours | Reference | Output ml/min | Droplet sizes (µm) | 0,80 m (minimum) | 4,80 m (maximum) |
| Purple | 300230 | 25 | 75 | 5,2 L/Ha | 0,9 L/Ha |
| Blue | 300231 | 45 | 80 | 9,3 L/Ha | 1,5 L/Ha |
| Yellow | 300232 | 85 | 110 | 17,7 L/Ha | 2,9 L/Ha |
| Green | 300234 | 150 | 130 | 31,2 L/Ha | 5,2 L/Ha |

ACCESSORIES



Essential for spraying, accessories give greater precision, comfort and efficiency. Compatible with all the products within the Cooper Pegler range, they can also be used to repair or maintain your equipment and prolong its lifespan.

**SALES POTENTIAL: 20% TO 30%
OF SPRAYING SALES**
=
ADDITIONAL SALES TURNOVER
+
SOURCE OF CUSTOMER LOYALTY

**A WIDE CHOICE OF ACCESSORIES IS AVAILABLE
WITHIN THE CP RANGE FOR:**

- High treatment: lances and telescopic lances
- Weeding: spray shields, regulator
- Good speed and performance: nozzles and calibration
- Wide treatment: booms
- Maintenance: spares kits

MAIN ACCESSORIES: COMPACT AND ATTRACTIVE!

We provide CP customers with presentation tools showing the main accessories:

- Capacity: 12 hooks x 6 accessories deep = 72 accessories
- Displayed with a brand banner board (not included)
- To be completed with accessories matching your selection: CP 15 + Classic / CP Classic + 2000

ACCESSORY DISPLAY - Ref. 583637

Dual colour printed banner board

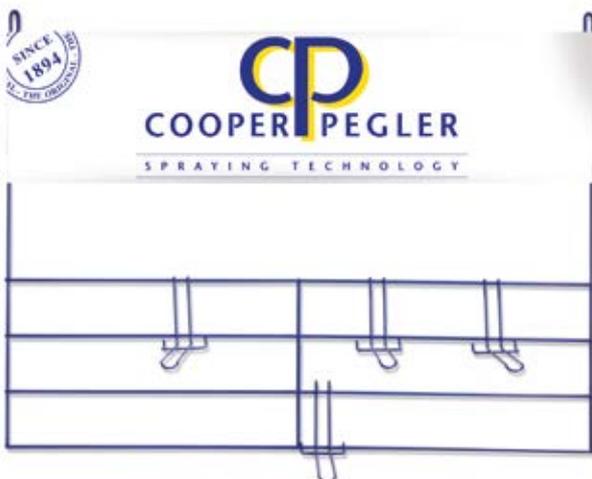
Kits, nozzles...

2 rows of 6 hooks

Lances and booms



Ref. 001CPFRONT14 - Dimensions: 100 x 25 cm
Fastenings not included, to be fixed to a perforated display or directly to the wall



NOZZLES

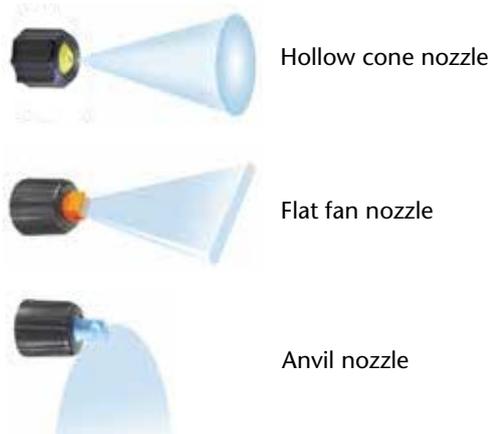
CONTROL AND GUARANTEE THE RIGHT PRODUCT APPLICATION MAKING THE NOZZLE A KEY-PART OF ANY SPRAYER

WHICH NOZZLE TO CHOOSE ?

A nozzle for every spray job: select the right nozzle to optimize product application and limit the effects of possible drift.

Cooper Pegler offers an extensive range of nozzles:

- anvil or flat fan nozzles for herbicides, for applications around 1 bar pressure
- hollow cone for insecticide and fungicide applications, ideally around 3 bar pressure



For each type of nozzle, you will find different opening sizes and angles in order to choose the right output for the recommended rate. These factors influence your **speed of coverage** over the field and your **ability to spray "on time"**; critical issues that will affect the quality of your application and the dose you may have to use.

$$\frac{\text{Flow rate (l/min)} \times 10,000}{\text{Size of treatment area (m)} \times \text{speed (m/min)}} = \text{Volume rate (l/ha)}$$

WHY CALIBRATE?

Calibration consists of defining and checking through a test - on a representative sample surface - that spraying conditions (nozzle height, walking speed) are observed, in order to be more precise and efficient.

Deviation from ideal conditions can result in significant performance differences, and increased product use:

| Calibration set at: | Deviation | Flow rate |
|--------------------------|-----------|-----------|
| - Lance 10 cm too low | 25% | 200 l/ha |
| - Walking speed too slow | 20% | 250 l/ha |
| - Nozzle worn | 20% | 300 l/ha |
| - Pressure at 2 bar | 20% | 360 l/ha |
| - Total | 10% | 396 l/ha |

x 2

To avoid pressure variations, we recommend the use of a control valve or regulator: integrated in the SERIES 2000, or available as an accessory (see page 19)

HOW TO CALIBRATE?

We recommend calibrating your spraying speed at least once a year.

- 1 - Check that the sprayer operates correctly and safely and the nozzle height to get the required treatment size.
- 2 - Define a surface area test similar to the nozzle coverage.
- 3 - Fill your sprayer with water and spray according to the required conditions (nozzle height and walking speed) on a defined area, for example 100 m².
- 4 -To calculate the volume rate (l/ha), multiply the sprayed quantity (missing from the tank) by 100.

Example: If 3 litres have been sprayed on 100 m², your volume rate is :
3 x 100 = 300 l/ha.

| 100 m ² = Length x Width | |
|-------------------------------------|-----|
| (m) | (m) |
| 0.5 | 200 |
| 0.7 | 143 |
| 1.0 | 100 |
| 1.2 | 83 |
| 1.5 | 67 |



For a quick and reliable reading of the quantity sprayed on the test, use the KALIBOTTLE to calibrate your sprayer. (see calibration table)

| L/ha | L/100 m ² | L/1000 sq ft | US gal / 1000 sq ft | Kalibottle L | Tank capacity / coverage in m ² | | | |
|------|----------------------|--------------|---------------------|--------------|--|------|------|------|
| | | | | | 20 L | 15 L | 8 L | 5 L |
| 350 | 3.50 | 3.25 | 0.86 | 0.88 | 571 | 429 | 229 | 143 |
| 325 | 3.25 | 3.02 | 0.80 | 0.81 | 615 | 462 | 246 | 154 |
| 300 | 3.00 | 2.79 | 0.74 | 0.75 | 667 | 500 | 267 | 167 |
| 275 | 2.75 | 2.55 | 0.67 | 0.69 | 727 | 545 | 291 | 182 |
| 250 | 2.50 | 2.32 | 0.61 | 0.63 | 800 | 600 | 320 | 200 |
| 225 | 2.25 | 2.09 | 0.55 | 0.56 | 889 | 667 | 356 | 222 |
| 200 | 2.00 | 1.86 | 0.49 | 0.50 | 1000 | 750 | 400 | 250 |
| 175 | 1.75 | 1.63 | 0.43 | 0.44 | 1143 | 857 | 457 | 286 |
| 150 | 1.50 | 1.39 | 0.37 | 0.38 | 1333 | 1000 | 533 | 333 |
| 125 | 1.25 | 1.16 | 0.31 | 0.31 | 1600 | 1200 | 640 | 400 |
| 100 | 1.00 | 0.93 | 0.25 | 0.25 | 2000 | 1500 | 800 | 500 |
| 75 | 0.75 | 0.70 | 0.18 | 0.19 | 2667 | 2000 | 1067 | 667 |
| 50 | 0.50 | 0.46 | 0.12 | 0.13 | 4000 | 3000 | 1600 | 1000 |

Ref 390638

NOZZLES

CHOOSING THE RIGHT NOZZLE ENSURES THE RIGHT COVERAGE AND FLOWRATE. EXAMPLES OF WIDTH AND VOLUME TREATMENT RATE USING ANVIL NOZZLES

Ref. no. 372020 - 0.6 l/min @ 1 bar



Ref. no. 372021 - 1.2 l/min @ 1 bar



Ref. no. 372022 - 1.8 l/min @ 1 bar



Ref. no. 372023 - 2.4 l/min @ 1 bar



BV 30 NOZZLE

Ref : 455688
Angle: 130°

The low volume nozzle rate (30 L/ha), it enables an optimal absorption and fixation of active substances and reduces the dose : the fine droplets ensure a very good coverage.

- **Phytosanitary product saving (from - 30 to 50% depending on the crop)**
- **Reducing water consumption: better autonomy and reduced downtime.**

Made of brass, it has a high mechanical resistance

CONDITIONS : SPEED: 1 M/S NOZZLE HEIGHT: 50 CM

| | Colour | Ref. | Output L/min. | Width cm | Volume L / ha | Time for 15 L min: sec |
|---|--------|--------|------------------|--------------------------|------------------------------|---------------------------|
| Anvil nozzles (for herbicide, very low volume at 1 bar) | | | | | | |
|  Anvil nozzle | Orange | 371847 | 0,24 | 110 | 35 | 62 : 30 |
| | Green | 371848 | 0,40 | 144 | 50 | 37 : 30 |
| | Blue | 371850 | 0,68 | 160 | 70 | 22 : 03 |
| Deflector nozzles (for herbicide at 1 bar) | | | | | | |
|  Hollow cone nozzle | Yellow | 372020 | 0,6 | 50 | 200 | 25 : 00 |
| | Green | 372021 | 1,2 | 100 | 200 | 12 : 30 |
| | Blue | 372022 | 1,8 | 150 | 200 | 8 : 20 |
| | Red | 372023 | 2,4 | 200 | 200 | 6 : 15 |
| Hollow cone nozzles (for insecticide and fungicide treatments at 3 bar) | | | | | | |
|  Flat Fan nozzle | Yellow | 371694 | 0,8 | 95 | 140 | 18 : 45 |
| | Red | 371682 | 1,4 | 120 | 195 | 10 : 42 |
| | Brown | 371695 | 1,8 | 130 | 230 | 8 : 20 |
| | Grey | 371696 | 2,4 | 140 | 290 | 6 : 15 |
| Flat fan 80° nozzles (3 bar) | | | | | | |
| | Red | 371859 | 1,6 | 80 | 333 | 6 : 15 |
| Flat fan tapered 110° nozzles (1 bar) | | | | | | |
|  Adjustable nozzle | Orange | 371706 | 0,4 | 140 | 133 | 18 : 45 |
| | Yellow | 371708 | 0,8 | 140 | 267 | 18 : 45 |
| | Blue | 371709 | 1,2 | 140 | 400 | 12 : 30 |
| | Red | 371710 | 1,6 | 140 | 533 | 6 : 15 |
| Adjustable nozzle: to vary from a straight jet to a mist spray through changing the angle and treatment area Réf. 371864 | | | Bar | Mist jet output l/min | Straight jet output l/min | Angle |
| | | | 1,5 | 0,69 | 1,25 | 80° |
| | | | 2,0 | 0,71 | 1,40 | 85° |
| | | | 3,0 | 0,88 | 1,65 | 90° |
| | | | 4,0 | 0,95 | 1,85 | 90° |
| | | | 5,0 | 1,10 | 2,18 | 95° |

Check the flowrate of each nozzle each year: it must be homogenous.
If it differs by more than 10 % from the theoretical flowrate at a precise pressure level,
the nozzle has to be changed.

BOOMS



THE INDISPENSABLE ACCESSORY FOR WIDE SPRAYING

To pass from a mono-jet to a multi-jet spray, booms are designed to increase capacity and coverage width. They are particularly good for large surfaces and herbicide spraying



Lightweight booms ideal for spraying larger areas.
2, 3 and 4 nozzle booms equipped with ISO F-02-110 flat fan nozzles spaced to every 50 cm, ideal for double overlap.

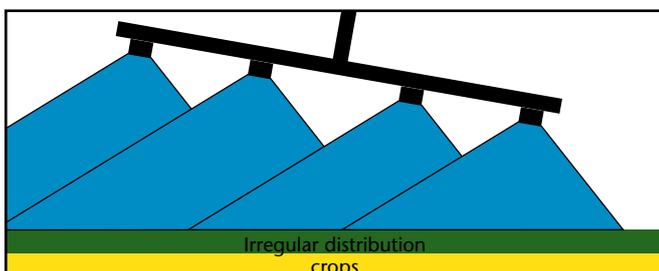
Output per nozzle at 2 bar is 0.65 l/min
Nozzle angle: 110°

HOW TO GET A GOOD DISTRIBUTION FROM YOUR BOOM?

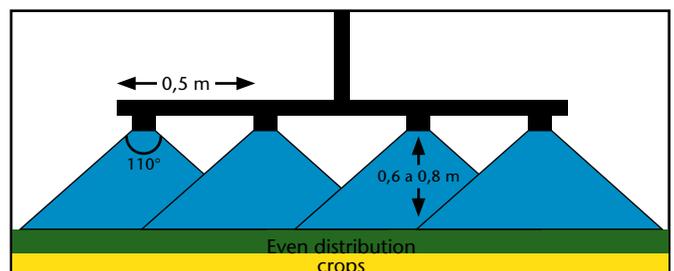
To ensure a perfect and homogeneous flow rate from the boom, we recommend working with double overlap : this will depend on the boom distance (height) from the target.



Boom height wrongly adjusted



Boom height correctly adjusted



SPRAY SHIELDS AND PRESSURE CONTROL



SPRAYERS ARE MOSTLY USED FOR WEED KILLING

To optimise herbicide applications, 2 critical factors must be met:

- localisation of the zone to avoid product migration onto the neighbouring plants
- adequate droplet size to reach the plants to be destroyed, thanks to a continuous pressure of around 1 bar.

SPRAY SHIELDS: PROTECTING PLANTS

To spray a localised zone and avoid spray drift, two types are available:

- a compact round shield (18 cm diameter) to select a localised zone, next to plants and flowers
- a wide shield (38 cm) for spraying inter-row or along a path (vineyard, plantations...) safely and efficiently



Wide for composite lance with ISO F-03-110 blue flat fan nozzle - Ref. 741647



Round for composite lance with HC yellow hollow cone nozzle Ref. 741721

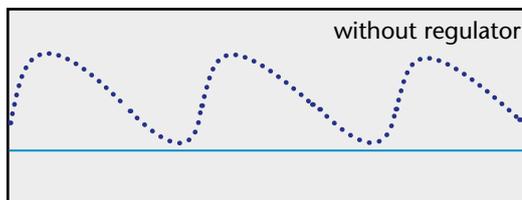
PRESSURE REGULATOR :

Guarantees a constant optimal pressure for weeding (at 1 bar) by activating the sprayer once the pressure has been achieved and limits the increase in pressure following extra effort on the lever.

An anti-drop system is also incorporated which instantly stops the flow of liquid when the pressure drops below the target value. Universal use, it adapts to all knapsack and compression sprayers (from 5L) within the Cooper Pegler range.

The essential accessory for applying the correct dose and thus achieving substantial product savings without effort.

Pressure



Time

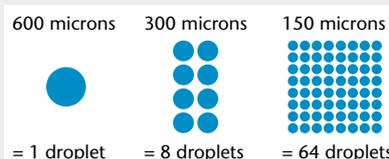
Pressure output with regulator

The droplet size is critical when choosing a nozzle as the efficiency of the phytosanitary product will depend on it.

To get a good coverage, there needs to be enough droplets to be effective, to reach their target and then settle there. 1 bar pressure gives optimum droplet size (between 200 and 300 microns) to limit drift and prevent runoff and thus reduce product waste. Pressure stability also affects the distribution of the mixture onto the soil.



Pressure regulator 1 bar Ref. 755837



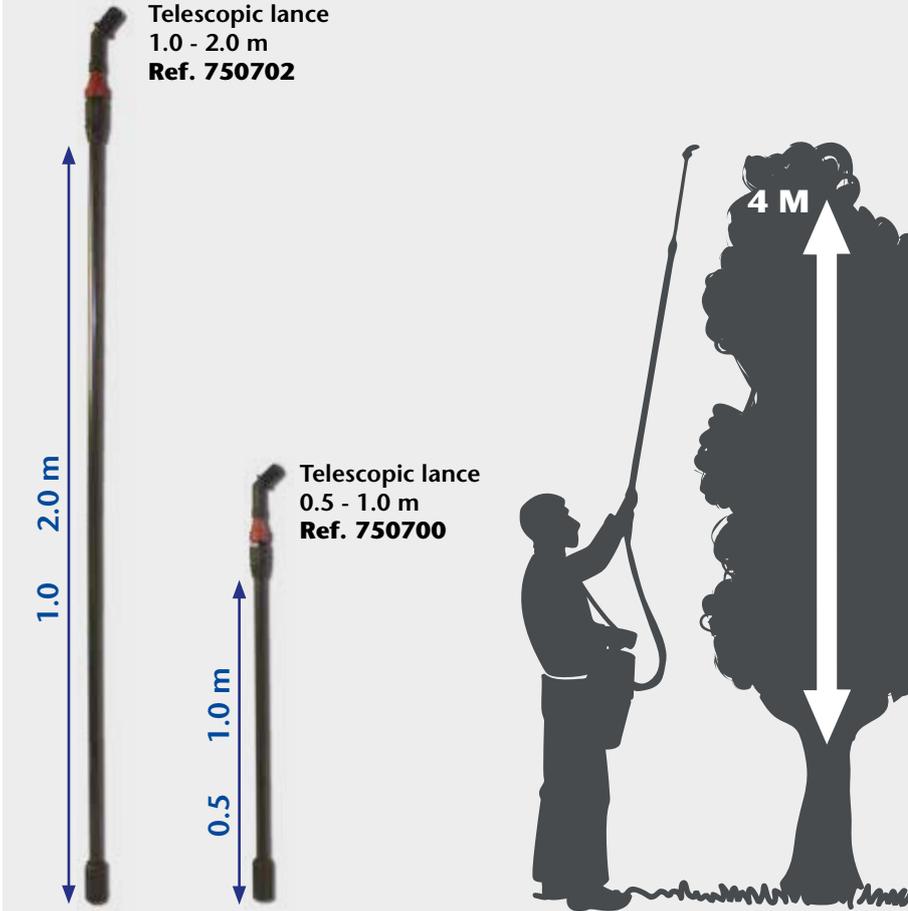
For droplets half the size, you get twice as many drops ... for the same amount of water

LANCES

FOR HIGH TREATMENTS AVAILABLE FROM 0.5 M TO 2.0 M

TELESCOPIC LANCES:

More compact extensions for distant targets, they can be adjusted to the desired length for a perfect application.



LANCES:

extension of the hand and arm, ideal for remote targets such as tall fruit trees.



NOZZLES KITS - SERVICE PACK KITS

To maintain your sprayer in the long run a full range of CP pre-packed spare parts are available to ease reliable maintenance and reduce down time to a minimum.

NOZZLES:



Nozzles kit: 4 flat fan tapered 110° nozzles (1 bar)
Ref. 750285



Nozzles kit: 3 flat fan 80° nozzles
Ref. 750286



Nozzles kit: 3 standard nozzles (hollow cone, flat fan and anvil jet)
Ref. 750305



Nozzles kit: 4 anvil nozzles
Ref. 750306



CP Nozzle pack: Double swivel nozzle
Ref. 755823

KALIBOTTLE:



Ref. 390638

For a quick and reliable reading of the quantity sprayed on the calibration test, use the KALIBOTTLE to calibrate your sprayer. (see calibration table p.19)

MAINTENANCE KIT:



CP Plast trigger
Ref. 755826



CP Service pack
CP Classic,
CP Evolution
Ref. 750405

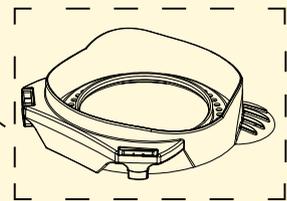
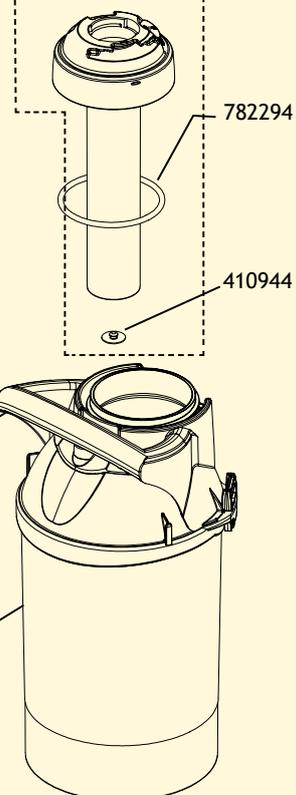
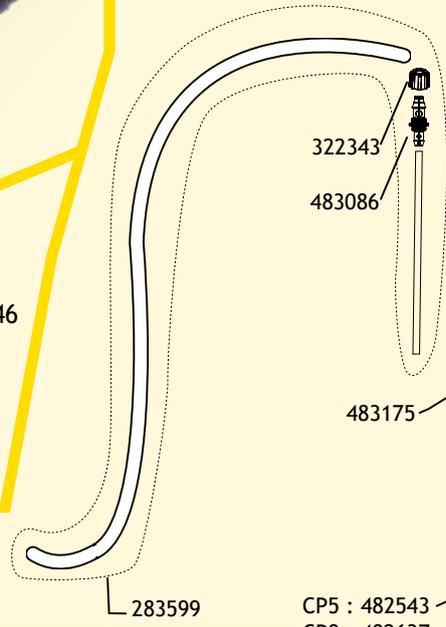
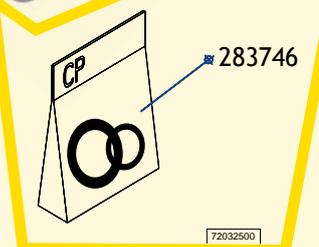
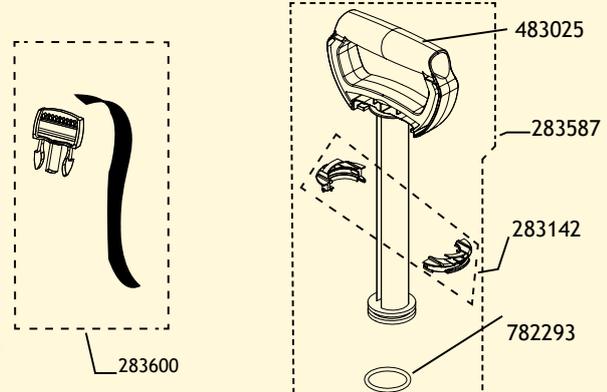
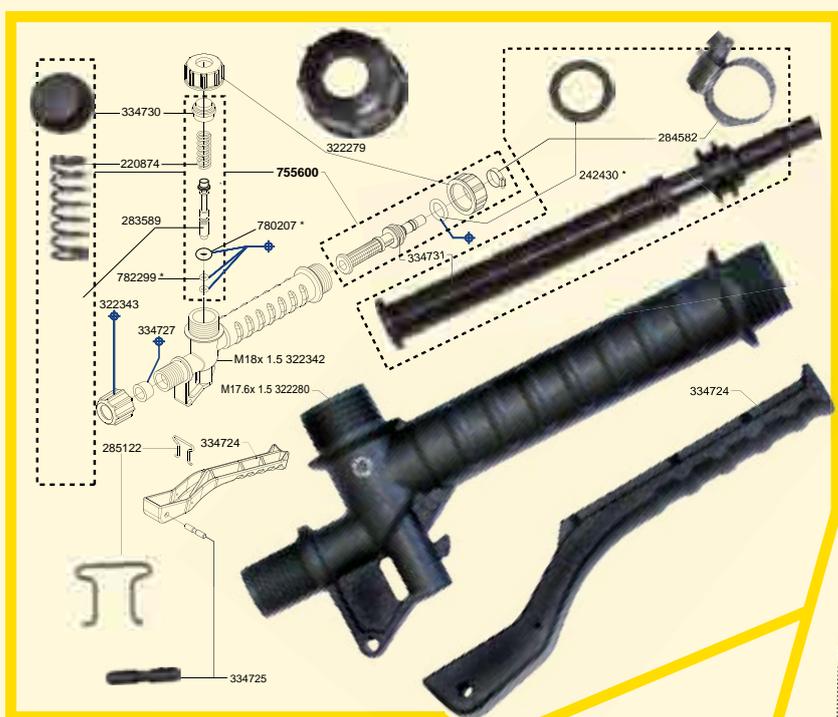


CP Service pack,
CP Maxi Pro
after 2010
Ref. 283746



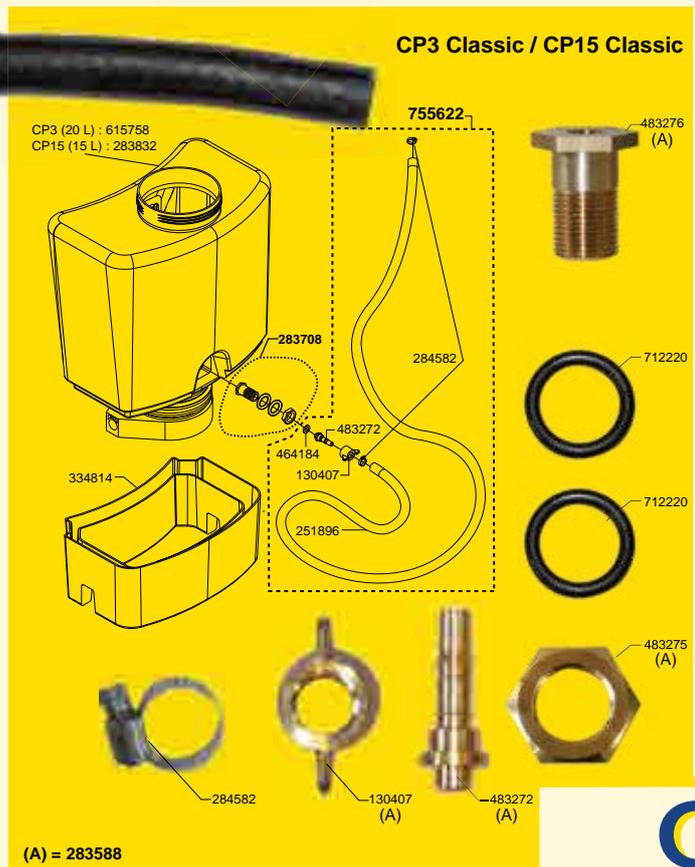
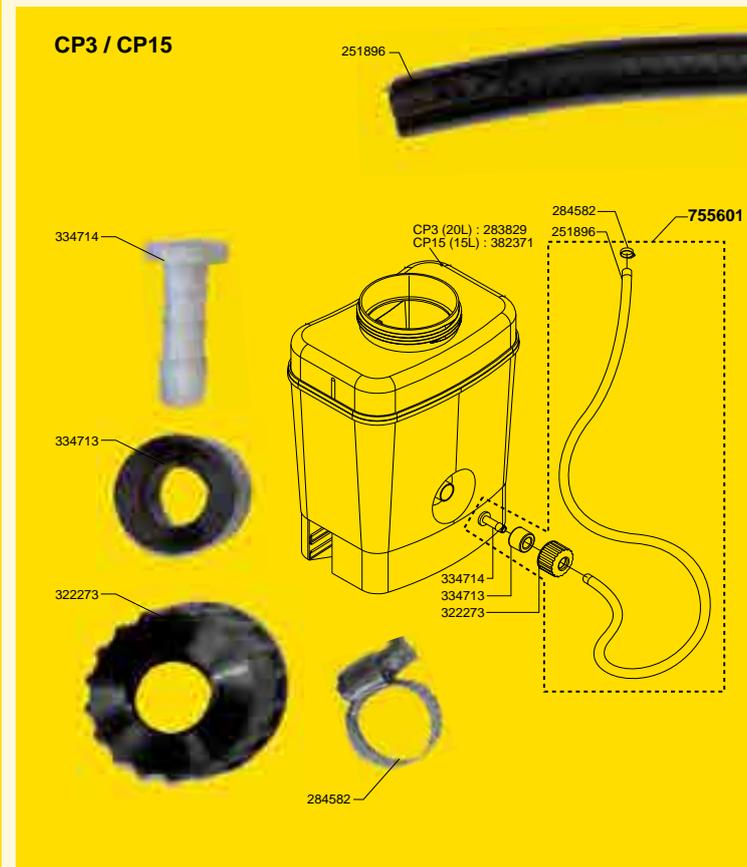
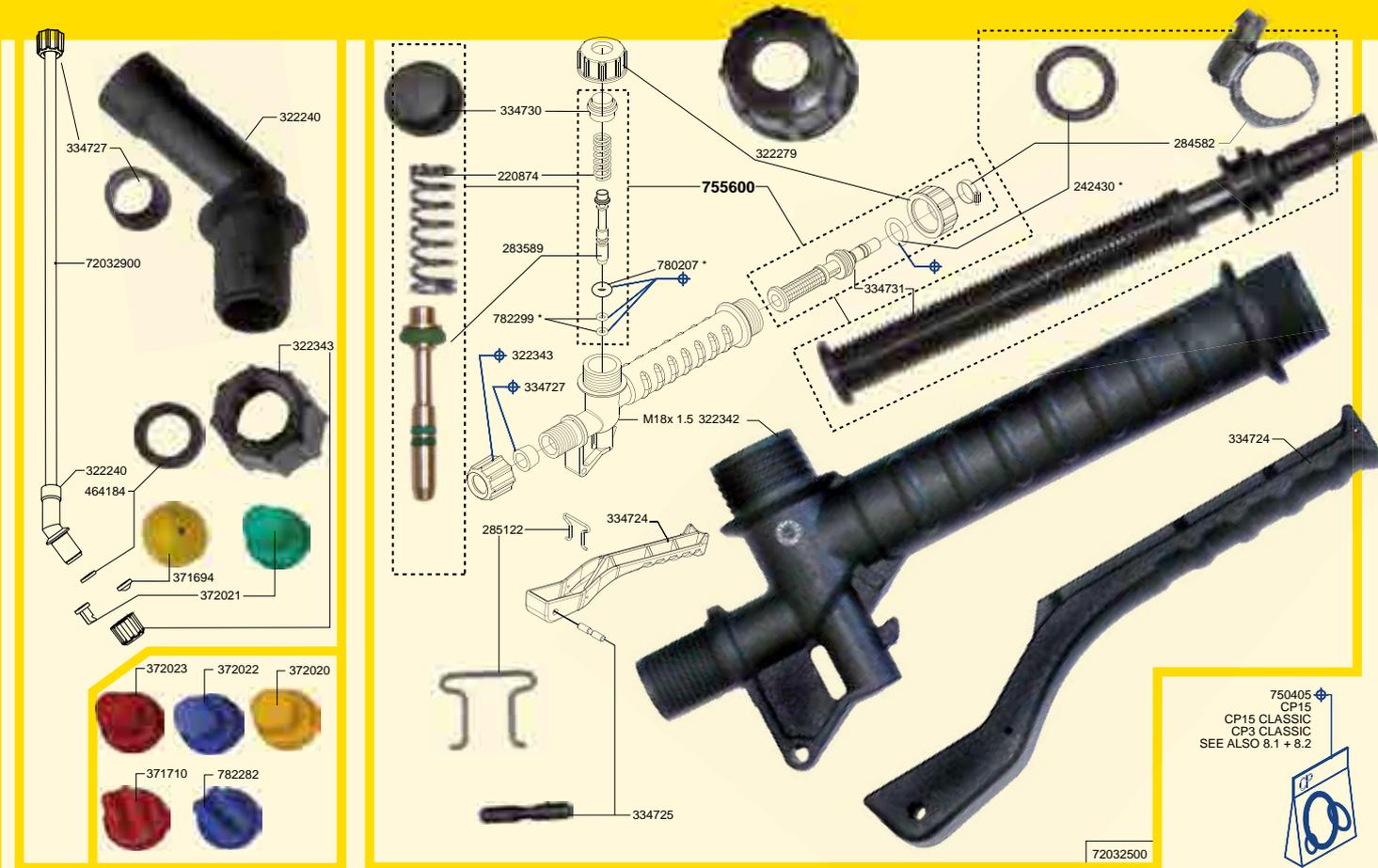
CP Service pack
2000 series
Ref. 750308

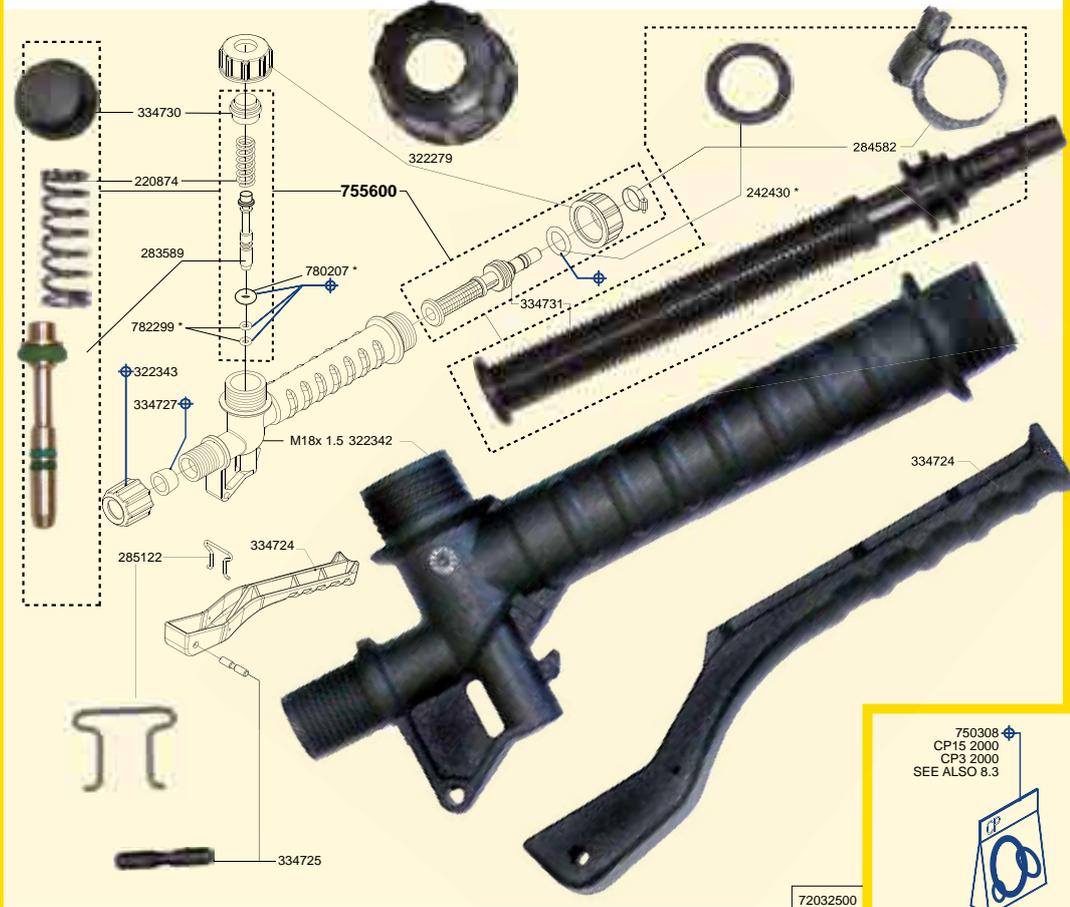
CP5 & CP8



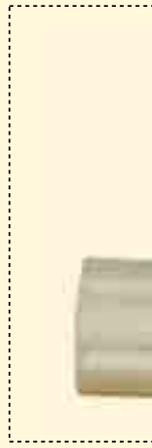
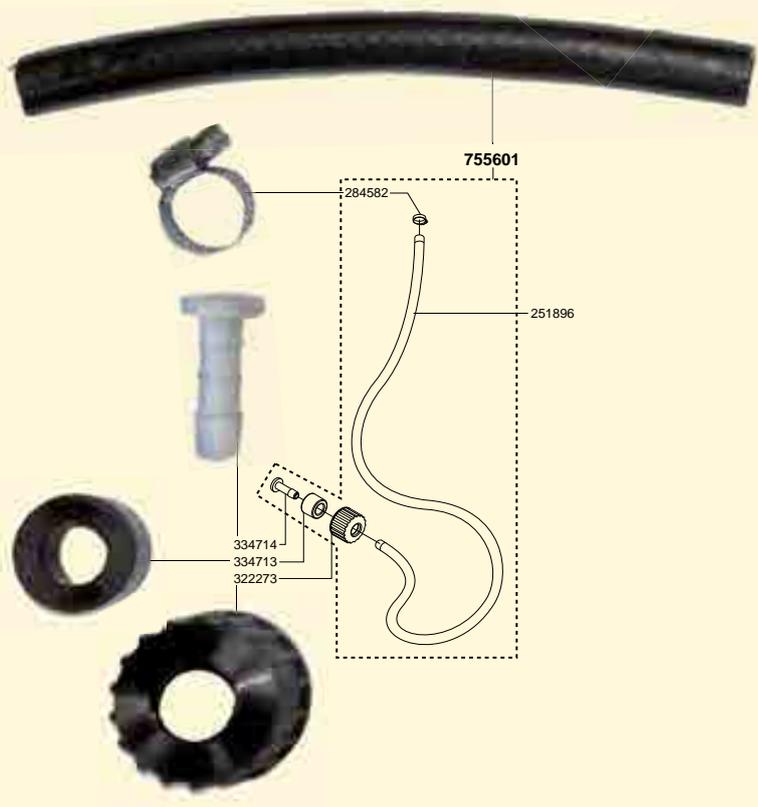
| REF | FRANÇAIS | ENGLISH | ESPAÑOL |
|----------|-------------------------------|----------------------------|-------------------------------------|
| 147351 | ECROU CONIQLATM18x1.5 * | UNION BRASS SHL | TUERCA CONICA LATON M18 X 1,5 |
| 283142 | ENS.FERMETURE POMPE LASER * | PISTON CLIP | CONJUNTO CIERRE DE BOMBA LASER |
| 283587 | SE POMPE CP5 / CP8 * | CP5/CP8 PUMP SUB ASSY | CONJUNTO BOMBA CP 5/CP 8 |
| 283589 | SE POINT LANTON POIG. CP15 * | HANDLE PISTON SUB ASSY | PISTON DE EMPUNADURA DE LANTON |
| 283599 | TUYAUT COMPLETE CP5/CP8 * | COMPLETE HOSE MAXIPRO | TUBERIA COMPLETA CP5/CP8 |
| 283600 | BRETELLE CP 5 / CP 8 * | CP5/CP8 STRAP | TIRANTE CP5/CP8 |
| 284970 | TUBE FDV D10x6x1000 * | GLASSFIBRE TUBE D10x6x1000 | TUBO FIBRA DE VIDRIO D10 X 6 X 1000 |
| 284971 | TUBE FDV D10x6x2000 * | GLASSFIBRE TUBE D10x6x2000 | TUBO FIBRA DE VIDRIO D10 X 6 X 2000 |
| 284972 | TUBE FDV D10x6x490 * | GLASSFIBRE TUBE D10x6x490 | TUBO FIBRA DE VIDRIO D10 X 6 X 490 |
| 285122 | AGRAFE DE POIGNEE * | WIRE CLIP | GANCHO DE EMPUNADURA |
| 322240 | PORTE BUSE COUDE HARDI * | LANCE ELBOW | PORTA BOQUILLA CODADA |
| 322277 | RACCORD DE LANCE M18 x 1,5 * | LANCE END STRAIGHT | RACOR DE LANZA M18 X 1,5 |
| 322279 | ECROU DE POIGNEE * | LANCE TRIGGER VAL | TUERCA DE EMPUNADURA |
| 322342 | CORPS DE POIGNEE M18 * | TRIGGER BODY | CUERPO DE EMPUNADURA M18 |
| 322343 | ECROU M18x150 HARDI * | NOZZLE CAP M18 | TUERCA M18 X 150 |
| 334724 | LEVIER DE POIGNEE BP 15/20 * | TRIGGER RELEASE HANDLE | PALANCA DE EMPUNADURA BP15/20 |
| 334727 | BUTEE CONIQUE TUBE FDV D10 * | GROMMET | TUERCA CONICA TUBO FDV D10 |
| 410944 | CLAPET POMPE VITON GRIS * | PUMP VALVE VITON GREY | VALVULA VITON DE BOMBA GRIS |
| 464184 | JOINT PLAT 16x9x2 NBR * | BACKING WASHER 16x9x2 | JUNTA LLANA 16 X 9 X NBR |
| 483025 | TIGE POMPE FLORALY OPTIMA * | MAXIPRO PUMP | VARILLA BOMBA FLORALY OPTIMA |
| 483174 | EMBASE RES.INJECTE BLEUE * | TANK BASE BLUE | BASE TANQUE AZUL |
| 483175 | COQUE TETE PULSAR (N) BLEU * | CASING SHELL | CASCO CABEZA PULSAR AZUL |
| 730439 | ALL DE LANCE BP 15/20 0,5M | EXTENSION 0,5M | ALARGADERA DE LANZA 15/20 0,5 M |
| 730440 | ALLONGE DE LANCE 1M M18 | EXTENSION 1M | ALARGADERA DE LANZA 1M M18 |
| 730441 | TUBE DE LANCE BP 15/20 1M | LANCE WITH ELBOW 1M | TUBO DE LANZA 15/20 1M |
| 730442 | LANCE 2M M18 PROLONGATEUR | LANCE WITH ELBOW 2M | EXTENSION DE LANZA 2M M18 |
| 283746 | PIECES RECHANGE | SERVICE PACK | PIEZAS DE REPUESTO |
| 755600 | KIT POIGNEE DE LANCE CP * | TRIGGER VALVE PACK | KIT EMPUNADURA DE LANZA |
| 782293 | KIT POIGNEE DE LANCE CP * | PISTON SEAL FPM 70SH GREEN | JUNTA DE PISTON FPM 70SH VERDE |
| 782294 | JOINT TOR. 89x5 FPM 70 SH V * | O-RING 89x5 FPM 70 SH V | JUNTA 89 X 5 FPM 70 SH V |
| 72032500 | POIGNEE DE LANCE AGRAFE * | LANCE HANDLE | GANCHO DE EMPUNADURA DE LANZA |
| 72032900 | SE TUBE LANCE FDV 500MM | LANCE WITH ELBOW 0,5M | TUBO DE LANZA FDV 500 MM |

CP15 & CP3 EVOLUTION

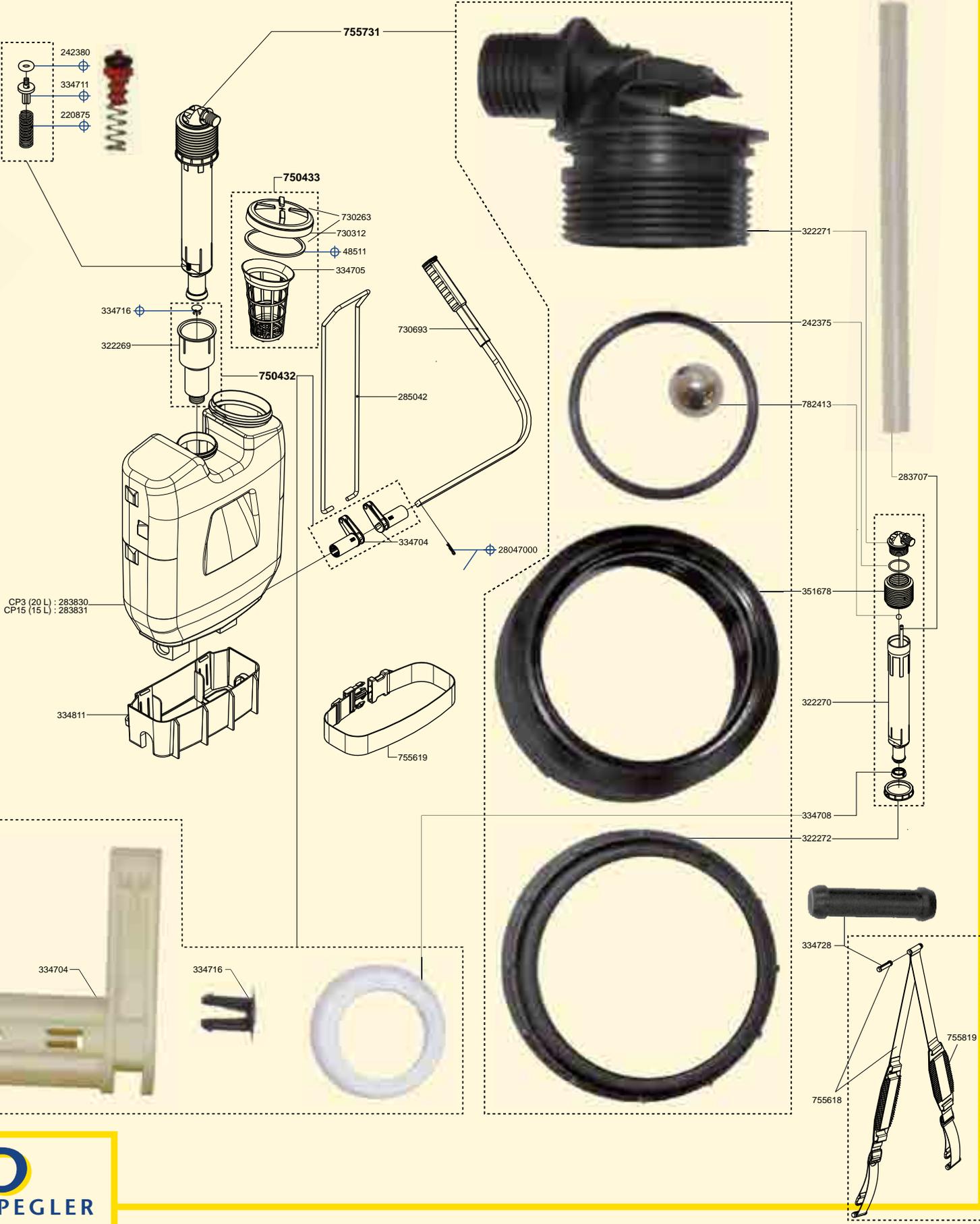




750308
CP15 2000
CP3 2000
SEE ALSO B.3



CP15 2000



CP RANGE :

LOGISTIC INFORMATION

| PRODUCT DESCRIPTION | CODE | EAN CODE | BOX DIMENSIONS L X W X H (MM) | GROSS WEIGHT (KG) BOX+ EQUIP-MENT | PALLET DIMENSION L 80 X W 120 | | NB UNITS / BOX |
|--|--------|---------------|-------------------------------|-----------------------------------|-------------------------------|--|----------------|
| | | | | | HEIGHT (CM) | | |
| CP 1,5 | 846248 | 3414438462489 | 490x290x300 | 3,30 | 195 | | 6 |
| CP 5 | 846249 | 3414438462496 | 200x200x520 | 2,00 | 223 | | 1 |
| CP 8 | 846250 | 3414438462502 | 200x200x690 | 2,80 | 222 | | 1 |
| CP 15 Evolution reference by full container | 848150 | 3414438481503 | 345x260x490 | 4,10 | 207 | | 1 |
| CP 15 Evolution Confort reference by full container | 848152 | 3414438481527 | 345x280x490 | 4,25 | 207 | | 1 |
| CP 15 Evolution FR reference by unit | 848257 | 3414438482579 | 345x260x490 | 4,10 | 207 | | 1 |
| CP 15 Evolution Confort FR reference by unit | 848258 | 3414438482586 | 345x280x490 | 4,25 | 207 | | 1 |
| CP 3 Evolution Confort reference by full container | 848252 | 3414438482524 | 350x280x595 | 4,75 | 189 | | 1 |
| CP 3 Evolution Confort FR reference by unit | 848255 | 3414438482555 | 350x280x595 | 4,90 | 189 | | 1 |
| CP 15 Classic | 846255 | 3414438462557 | 400x250x470 | 5,20 | 203 | | 1 |
| CP 3 Classic | 846320 | 3414438463202 | 400x250x570 | 5,40 | 211 | | 1 |
| CP 15 2000/S | 846341 | 3414438463417 | 390x170x630 | 5,35 | 210 | | 1 |
| CP 15 2000/E | 846342 | 3414438463424 | 390x170x630 | 5,35 | 210 | | 1 |
| CP 3 2000/S | 846361 | 3414438463615 | 410x190x640 | 5,75 | 207 | | 1 |
| CP 3 2000/E | 846362 | 3414438463622 | 410x190x640 | 5,75 | 207 | | 1 |
| CP ULV | 848104 | 3414438481046 | 1080x210x150 | 1,35 | 165 | | 1 |

| | | CONTAINER 20 " DRY | | CONTAINER 40 " DRY | | CONTAINER 40 " DRY HC | |
|------------------------|----------------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|
| NB UNITS / PALLET (kg) | TOTAL WEIGHT / PALLET (kg) | NB OF UNITS / CONTAINER | TOTAL WEIGHT (kg) | NB OF UNITS / CONTAINER | TOTAL WEIGHT (kg) | NB OF UNITS / CONTAINER | TOTAL WEIGHT (kg) |
| 288 | 957 | 4 290 | 2 359,5 | 8 820 | 4 851 | 10 020 | 5 511 |
| 96 | 198 | 1 410 | 2 820 | 2 940 | 5 880 | 3 370 | 6 740 |
| 72 | 208 | 1 020 | 2 856 | 2 130 | 5 964 | 2 500 | 7 000 |
| 40 | 169 | 684 | 2 804 | 1 320 | 5 412 | 1 570 | 6 437 |
| 40 | 175 | 635 | 2 699 | 1 230 | 5 228 | 1 450 | 6 163 |
| 40 | 169 | 684 | 2 804 | 1 320 | 5 412 | 1 570 | 6 437 |
| 40 | 175 | 635 | 2 699 | 1 230 | 5 228 | 1 450 | 6 163 |
| 30 | 147,5 | 500 | 2 375 | 1 000 | 4 750 | 1 200 | 5 700 |
| 30 | 152 | 500 | 2 450 | 1 000 | 4 900 | 1 200 | 5 880 |
| 36 | 194 | 580 | 3 016 | 1 190 | 6 188 | 1 375 | 7 150 |
| 31 | 174 | 515 | 2 781 | 1 060 | 5 724 | 1 266 | 6 750 |
| 43 | 237 | 720 | 3 852 | 1 480 | 7 918 | 1 700 | 9 095 |
| 43 | 237 | 720 | 3 852 | 1 480 | 7 918 | 1 700 | 9 095 |
| 40 | 236 | 600 | 3 450 | 1 240 | 7 130 | 1 445 | 8 309 |
| 40 | 236 | 600 | 3 450 | 1 240 | 7 130 | 1 445 | 8 309 |
| 40 | 55 | 840 | 1 134 | 1 720 | 2 322 | 1 950 | 2 632,5 |

Reminder :

a container 20 " DRY = 30 m³

a container 40 " DRY = 60 m³

a container 40 " DRY High cube = 70 m³



HOZELOCK-EXEL

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www.cooper-pegler.com

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SAS au capital de 2 600 000 - SIRET 77965877200024 - APE 2830 Z - RC Villefranche B - N° TVA Intracommunautaire: FR 02 779 658 772

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Réf. 58xxxx