

## Manual and universal sprayers

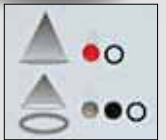


### Accessories:

Telescopic wand for 401/402:

The telescopic wand allows comfortable ground-level spraying without bending down.

Part no. 4900628



Professionally equipped mini sprayers with an available capacity of 1 1/2 l, Viton® seals and lever lock. The robust pump reaches the required operating pressure after just a few strokes. The vertically adjustable nozzle makes spraying easy, even in awkward places, like underneath leaves. The high grade nozzle is adjustable from a pointed jet to the finest mist.



### 461 / 462 / 463

The optimum commercial choice at 5, 7.5 and 11 l capacity and 3 bar pressure.

The large capacity pump, the container with wide filling opening and the optional locking of the spray wand, the generously sized cleaning aperture and the selection of pressure spray nozzles supplied as standard, are just a few of the attributes of this attractive pressure sprayer.



### 456 / 457

Professional pressure sprayers offering 5 and 7.5 l capacities. A 480 cm<sup>3</sup> pump generates 3 bar pressure with just a few strokes.

The large apertures allow easy cleaning, the durable 50 cm spray lances, the robust grips with optional pressure gauge attachment and the selection of spray nozzles supplied as standard, fully justify the worldwide success of these top sprayers.

Model Part no.	401 4000101	402 4000102	461 400016102	462 4000162	463 4000163	456 400015601	457 400015701	473 P 400017301	473 D 400017302	425 400012501	435 400013501	475 400017501	485 400018501
Pump type piston/diaphragm	● / -	● / -	● / -	● / -	● / -	● / -	● / -	● / -	- / ●	● / -	● / -	- / ●	- / ●
Capacity l	1	2	5	7.5	11	5	7.5	12	12	15	20	15	20
Spray pressure bar max.	--	--	3	3	3	3	3	4	4	6	6	4	4
Wand length cm	--	--	50	50	50	50	50	50	50	50	50	50	50
Pressure regulator	--	--	--	--	--	--	--	X	X	X	X	X	X
Dry weight kg	0.39	0.46	1.2	1.5	1.7	2.5	2.6	3.9	3.9	4.3	4.9	4.6	5.2

## Backpack sprayers, manual operation



Compact, powerful, pressure sprayers with different capacities and pump types create the right conditions for a precisely metered application of herbicide.

Large filler openings for convenient filling of the tank and low resistance pumps enable light and pleasant working.

The worldwide success of these sprayers can be attributed to the following characteristics: Low maintenance, large spraying capacity, even liquid distribution with low energy requirements and low weight, due to the use of top quality UV-stabilised plastics.

A carefully balanced range of accessories solves problems where special applications are required.



- Impressive application performance
- Ergonomically refined rotating pump lever for fitting to the left or right side
- Clamping holder for the spray wand
- Durable spray wand
- Easy to operate pump
- Low effort required
- Longer hose for greater reach
- Robust manual valve with optional pressure gauge connection
- Precisely metered application volume
- New flat-jet nozzle to ISO standard and extensive range of standard nozzles
- Manual spray pressure adjustment i.e. 1-2-3-4 bar
- High grade, UV-stabilised plastics
- Container shaped to suit the body
- Non-pressurised container with separate pressure chamber
- Low inherent weight
- Large filling and cleaning aperture
- Resistant seals for all herbicides
- Container content identification
- Container fill level indication
- Wide padded and comfortable straps with strain relief
- Stable container frame
- Individual pump lever adjustment
- TORX key for maintenance work

### 425/475 435/485

Professional backpack sprayers with a capacity of 15 l / 20 l respectively. Both types are equipped with a pressure regulator, a durable 50 cm long lance and a practical robust valve handle. The UV-resistant plastic container is ergonomically designed for maximum operator comfort, and the robust metal pump lever can be stored vertically.

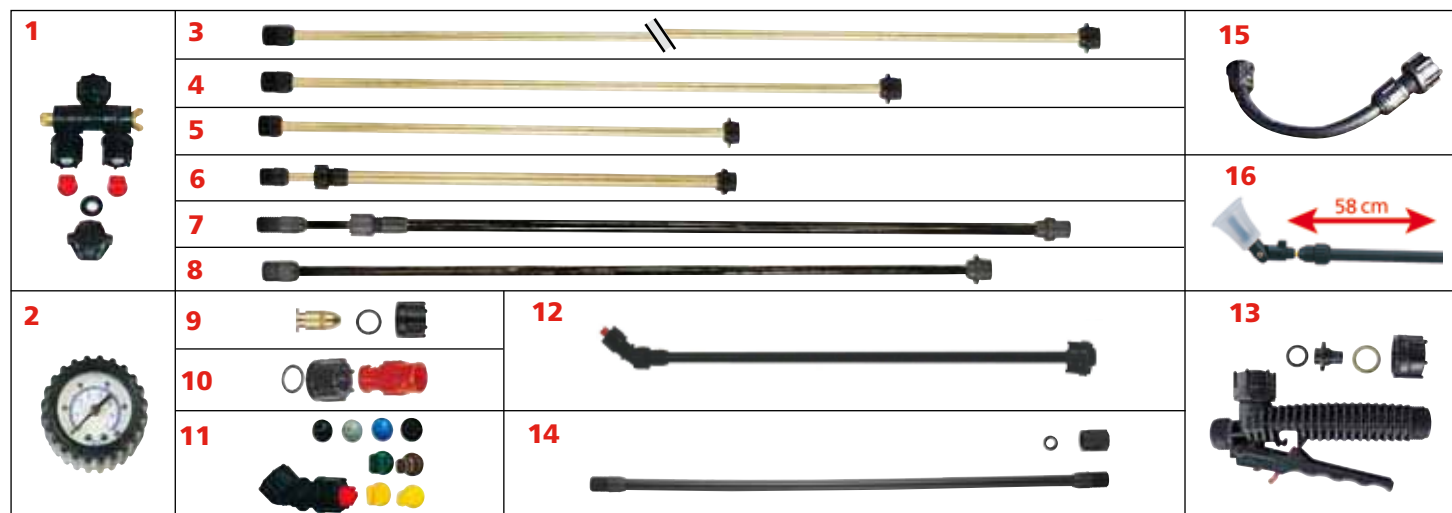
### 473 P / 473 D

Professional backpack sprayers, each with 12 l capacity. Both types are equipped with a manually adjustable pressure regulator, a durable 50 cm long lance and a practical robust valve handle. The UV-resistant plastic container is ergonomically designed for maximum operator comfort, and the robust metal pump lever can be stored vertically.

# Sprayer accessories



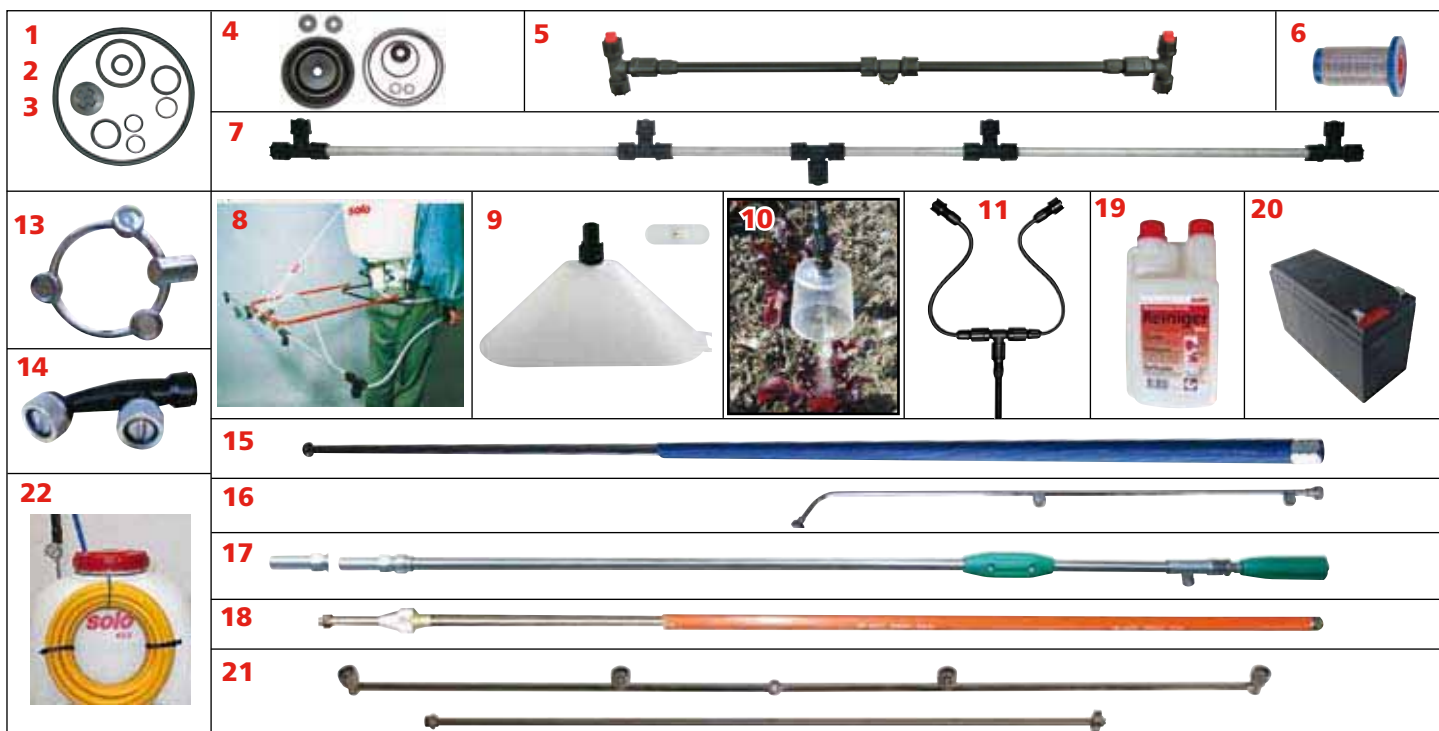
Pos.	Description	Part no.	456/457	461/462/463	425/473P	435	475/473D	485	432	416
1	<b>Dual nozzle with nozzle set</b> Two swivelling nozzles for simultaneous spraying of two rows of plants. Versatile nozzle use.	49 00 477	●	●	●	●	●	●	●	●
2	<b>Pressure gauge 10 bar with connection parts</b> For spray pressure control. The spray medium can be accurately applied with the required pressure.	49 00 356	●	●	●	●	●	●	●	●
3	<b>Tree spraying tube, two-part, brass, 150 cm.</b> For increased reach, e.g. for espaliered trees, high shrubs, etc.	49 00 528	●	●	●	●	●	●	●	●
4	<b>Spray wand, brass, 75 cm.</b> Recommended for use with spray boom or drift guard near the ground.	49 00 428	●	●	●	●	●	●	●	●
5	<b>Spray wand, brass, 50 cm.</b> Comfortable working with spray boom.	49 00 519	●	●	●	●	●	●	●	●
6	<b>Telescopic spray wand 57 – 100 cm.</b> Universal application through individual adjustment of the spray wand length.	49 00 478	●	●	●	●	●	●	●	●
7	<b>Telescopic spray wand, carbon 120 – 230 cm.</b> Made from ultra-light carbon fibre for fatigue-free work in greater spray ranges, total weight only 120 g.	49 00 445	●	●	●	●	●	●	●	●
	<b>Telescopic spray wand 60 – 120 cm, 75 g.</b>	49 00 457	●	●	●	●	●	●	●	●
8	<b>Tree spraying tube, carbon, 120 cm.</b> Total weight only 60 g. Made from ultra-light carbon fibre for lighter work.	49 00 449	●	●	●	●	●	●	●	●
9	<b>High reach nozzle, brass</b> Adjusts from fine mist to long jet, e.g. enables pin-point accurate application over a greater distance.	49 00 206	●	●	●	●	●	●	●	●
10	<b>High reach nozzle, plastic</b> Adjusts from fine mist to wide jet.	49 00 525	●	●	●	●	●	●	●	●
11	Nozzle set comprising <b>8 nozzles</b> Universal application.	49 00 448	●	●	●	●	●	●	●	●
12	<b>Spray tube PVC 50 cm, with flat jet nozzle.</b> Universal spray wand made from almost unbreakable special plastic.	49 00 439	●	●	●	●	●	●	●	●
13	<b>Manual valve</b> Manual valve for professional use with pressure gauge connection, child-proof lock and continuous use.	49 00 440	●	●	●	●	●	●	●	●
14	<b>Spray wand, brass, 50 cm.</b> For increased range.	49 00 513	●	●	●	●	●	●	●	●
15	<b>Spray wand extension, flexible, 15 cm.</b> Up to 180°, flexibility for individual plant protection and cleaning operations.	49 00 450	●	●	●	●	●	●	●	●
16	<b>Telescopic wand, approx. 25 – 50 cm.</b> Extension for manual sprayers 401/402 for more comfortable work near the ground and overhead.	49 00 628	-	-	-	-	-	-	-	-





Pos.	Description	Part no.	456/457	461/462/463	425/473P	435	475/473D	485	432	416
1*	Set of seals, including all sealing parts for the stated sprayer type.	49 00 551	-	●	-	-	-	-	-	-
2*	Set of seals, including all sealing parts for the stated sprayer type.	49 00 441	●	-	-	-	-	-	-	-
3*	Set of seals, including all sealing parts for the stated sprayer type.	49 00 442	-	-	●	●	-	-	-	-
4*	Set of seals, including all sealing parts for the stated sprayer type.	49 00 443	-	-	-	-	●	●	-	-
5	Spray boom, PVC, 60 cm with two nozzles, comfortable treatment of double rows and large areas.	49 00 514	●	●	●	●	●	●	●	●
6	Ball valve filter, prevents dripping after turning off the manual valve; therefore complies with all current regulations.	49 00 539	●	●	●	●	●	●	●	●
7	Spray boom, aluminium, 120 cm, with four nozzles for large area applications. Extremely light for carrying on the front or mounting on the rear of backpack sprayers. Will fit all lances of manual SOLO sprayers.	49 00 299	●	●	●	●	●	●	●	-
8	Additional fixing kit, for fitting the aluminium spray boom backwards.	49 00 517	-	-	●	●	●	●	-	-
9	Drift guard with flat jet nozzle F 02-80 to protect adjacent plantations. Prevents small droplets from drifting, limits the spray range. Important for weed control in the immediate vicinity of plantations and ponds.	49 00 430	●	●	●	●	●	●	●	●
10	Small drift guard to apply medium in restricted areas, e.g. for fertilising or combating weeds.	49 00 128	●	●	●	●	●	●	●	●
11	Flexible double spray head, 60 cm, for treating double lines.	49 00 411	●	●	●	●	●	●	●	●
13	Triple concentric nozzle	49 00 184	For high pressure sprayer 433							
14	Twin Y nozzle	49 00 182								
15	Extension wand, 120 cm	49 00 183								
16	Triple spray lance, 60 cm	49 00 181								
17	Spray lance 120 cm, with changeover nozzle	49 00 185								
18	Telescopic extension wand, 120 - 230 cm	49 00 189								
19	Herbicide tool cleaner in a metering bottle, 500 ml	49 00 600	For all plant sprayers							
20	High performance rechargeable battery, 12 V, for 416 with higher capacity 7.2 Ah	00 84 110	Up to 5 h constant operation							
21	Stainless steel spray boom 100 cm, with 4 nozzles + stainless steel spray wand 75 cm	49 00 300	For high pressure sprayer 433							
22	433 extension hose, 10 m, incl. retaining bracket V2A	49 00 191								
	Charging cable for rechargeable battery externally to the pressure sprayer 416.	59 00 789								

\*) Limited suitability for liquids containing acids or benzene.



## Motorised backpack sprayer



## Rechargeable pressure sprayer

With 2.8 bar, this is the ideal pressure sprayer for use in greenhouses and enclosed spaces.



**433** This high-pressure sprayer from SOLO with 20 l capacity reaches a controlled operating pressure of up to 30 bar, enabling it to achieve fine spray mist applications, even at extreme heights. The powerful engine delivers a flow rate of no less than 2 l/min at 30 bar thanks to its push-pull piston pump. A practical drain connector at the bottom of the container enables all residual liquids to be drained completely. This sprayer is equipped with a 60 cm stainless steel spray wand and a pressure gauge on the sturdy quick release handle, which allows the pressure to be matched to any application.

Supplied with a high-quality double flat jet nozzle, with stainless steel nozzle screens. Unleash the true power of this motorised sprayer with the right accessories (page 7).



**416**



Comfortable backpack equipment with padded contact, wide straps with strain relief and supporting waist belt.



Drain hose with shut-off valve for draining residual liquids.



Charging socket 12 V, for connecting a charger, 2-stage switch for pressure and flow rate.

Impressive spraying performance with a 12 V pump  
Ergonomically designed 20 l container, comfortable backpack section  
Durable 500 mm spray wand  
1 500 mm long hose for stress-free arm radius  
Robust manual valve with silicone-dampened pressure gauge  
Two-stage selection of pressure and application volume  
Stage 1 : 1.4 bar, stage 2 : 2.8 bar  
New flat-jet nozzle to ISO standard  
High grade, UV-stabilised plastics  
Large filling and cleaning aperture  
Residual liquids drained via drain hose  
Container fill level indication  
Wide padded and comfortable straps with strain relief and hip belt  
Dry weight excl. rechargeable battery pack 4.8 kg  
Maintenance-free 12 V lead-gel rechargeable power pack with rapid recharging cycle of approx. 3 h.  
Compact dimensions  
Comprehensive range of sprayer accessories  
**Even more powerful 7.2 Ah power pack available as an accessory**

## Portable misters – worldwide leaders



With their high performance spray technology made in Germany, SOLO truly leads the world in power misters. Misters from SOLO have the distinction of being light with an impressive spraying capacity. These characteristics make it the environmentally responsible choice for the protection of a large range of horticultural produce and in forestry around the world. Forestry, vineyards, citrus fruit, bananas, pineapple, tea, coffee, tobacco, cotton ...

Over many decades, the robustness and easy handling of SOLO plant protection equipment have created the conditions for successful harvests.

In addition to horticulture, these misters may also be used for parasite control in animal herds, in stables, cow sheds, storage areas, ships and containers.

The most advanced SOLO engine technology offers low fuel consumption, reduced exhaust fumes and high continuous output.



### 444

Weight: Only 10.0 kg. This mister holds 12 l medium and is extremely comfortable to use over long periods. **Now with more power for increased air volume and higher air velocity.**



### 450

The economic alternative to the 423 Port, in the high-performance professional misting equipment sector.

### 450-02

Also available as 450-02 with 20 l container for misting and dusting (dusting with special attachment - see accessories).



The world-wide leading classic model amongst misters

**The new 423 Port with improved engine technology**



# Mister accessories



Pos.	Product category 444/450/423	Part no.
	Dusting attachment for 423 enables conversion to a dusting machine	49 00 233
	ULV nozzle for 423 / 444 / 450 incl. metering facility 4900169	49 00 479
	Twin-nozzle for 423 / 444 / 450, for extending the breadth of spray or for the simultaneous treatment of two rows of plants; additional push on diffuser nozzles can be used to prevent plant damage from the air stream in tight rows	49 00 137
	ULV metering equipment for 423 / 444 / 450, delivery of minute volumes of highly concentrated active agents (ultra low volume process) with high metering accuracy. With fine metering and micro filter	49 00 169

Pos.	Product category 444/450/423	Part no.
	Extension wand, 60 cm for 423 / 444 / 450, may be used in multiples in conjunction with a fluid pump	49 00 333
	Mixing can 1 litre, with practical measuring cap	27 00 278
	Dusting attachment for 450 - 022, excl. tank	49 00 553
	Liquid pump for 444	44 00 114
	Liquid pump for 423, increased delivery and reach with extension	44 00 117
	Liquid pump for 450, increased delivery and reach with extension	44 00 235

Technical - overview	Rechargeable sprayer		Motorised pressure sprayer			
	416	433	444	450	450-20 L	423 Port
Model	416	433	444	450	450-20 L	423 Port
Part no.	4000116	400013302	400014402	4000150012	4000150022	4000123012
Motor/Engine Electric / 2-stroke / 4-stroke	● / - / -	- / - / ●	- / ● / -	- / ● / -	- / ● / -	- / ● / -
Displacement cm <sup>3</sup>	-	25	40	53		72.3
Power kW/PS	12 V / 5.2 Ah	0.61 / 0.83	1.5 / 2.0	2.4 / 3.3		3.0 / 4.1
Tank capacity l	20	20	12	12	20	12
Stainless steel double nozzle		●				
Flat jet nozzle 015-F 80	●					
Spray pressure bar, adjustable	1.4 / 2.8	1.0 - 30				
Delivery l/min / l total with standard nozzle	I 0.44 / 179 l II 0.56 / 115 l	1.2 l at 10 bar 1.7 l at 20 bar 2.0 l at 30 bar				
Air flow rate max. m <sup>3</sup> /h	-	-	900	1100		1300
Horizontal reach m	-	-	10.5	11.5		12
Dry weight kg	6.4	8.3	10.0	11.5	12.0	11.0
Standard delivery	Plastic spray wand, pressure gauge Waist belt	Stainless steel spray wand, pressure gauge Waist belt	SOLO special misting nozzle with 4 settings, long reach venturi nozzle, wide angle screen, deflector screen and double side screen			